

REPORT NUMBER: TO6-MGA-2001-006

**ES-2 - FULL SCALE VEHICLE TESTS
NCAP LEFT SIDE IMPACT**

**Ford Motor Company
2001 Ford Focus 4 door**

**PREPARED BY:
MGA RESEARCH CORPORATION
5000 WARREN ROAD
BURLINGTON, WI 53105**



October 5, 2001

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
VOLPE NATIONAL TRANSPORTATION SYSTEM CENTER
55 BROADWAY, KENDALL SQUARE
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This final test report was prepared for the U.S. Department of Transportation, Volpe National Transportation System Center, under Contract No. DTRS57-98-D-00041.

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SECTION 1
PURPOSE AND TEST PROCEDURE

This Side Impact test was conducted as part of Contract No. DTRS57-98-D-00041, task order 6, sponsored by the U.S. Department of Transportation, Volpe National Transportation System Center. The purpose of this test was to evaluate the response of the ES-2 dummies in a 2001 Ford Focus 4 door when subjected to an NCAP left side impact.

MGA does not endorse or certify products. The manufacturer's name appears solely for identification purposes.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

A 2001 Ford Focus 4 door was impacted on the left 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 62.1 kph (38.6 mph). The target vehicle was stationary and was positioned at an angle of 63[°] to the line of forward motion. The side impact test was conducted by MGA Research Corporation in Burlington, Wisconsin, on October 5, 2001. Pre- and post-test photographs of the test vehicle, the MDB and the side impact dummies (ES-2 front and CRABI left and right mid seat) are included in Appendix A.

Two ES-2 side impact dummies were placed in the left front and left rear designated seating positions according to instructions specified in the FMVSS 214 Side Impact Laboratory Test Procedure which is dated August 2, 1999 and Evaluation of Eurosid-1 Positioning Procedure Appendix A dated February 5, 1997. The side impact event was documented by ten high speed cameras. Camera locations and other pertinent camera information can be found in this report.

Appendix B contains the vehicle and dummy response data traces. A summary of the side impact dummy (ES-2) configuration and performance verification test data is shown in Appendix C. Dummy and vehicle calibration data can be found in Appendix D of this report.

Appendix E contains a copy of the dummy positioning procedure used, Appendix F contains the ES-2 peak responses, and Appendix G contains the ES-2 sign conventions.

The following table summarizes the results of the Left Side Impact test:

		Left Front	Left Rear
1) Head Performance Criteria			
< 1000	T1 (msec)	No contact during impact	34.7
	T2 (msec)		84.2
	HPC		188
2) Thorax Performance Criteria			
2.1) Chest Deflection < 42 mm	Upper Rib Deflection	46.4	17.5
	Mid Rib Deflection	34.5	12.7
	Lower Rib Deflection	22.0	8.0
2.2) Viscous Criteria < 1.0 (m/sec)	Upper Rib	1.15	0.19
	Mid Rib	0.66	0.06
	Lower Rib	0.38	-0.03
3) Abdominal Protection Criterion			
Sum < 2500 N	Front Abdominal Force	281	545
	Mid Abdominal Force	593	475
	Rear Abdominal Force	960	262
	Sum of Abdominal Force	1785	1188
4) Pelvis Performance Criterion			
< 6000 N	Pubic Symphysis Force	3561	3678

HIC		Left Front	Left Rear
	T1 (msec)	43.6	40.3
	T2 (msec)	79.6	46.4
	T2 - T1 (msec)	36.0	6.1
	HIC	299	188

Fir Filtered	Left Front	Left Rear
Upper Rib Y (g's)	137.8	78.2
Mid Rib Y (g's)	128.8	47.4
Lower Rib Y (g's)	159.0	55.3
Lower Spine Y (g's)	68.4	59.2
Pelvis Y (g's)	94.6	84.1
TTI (g's)	114	69

Contacts	Left Front	Left Rear
Head (msec)	161.2 *	30.7
Arm (msec)	NVD	21.0
Rib (msec)	21.7	30.1
Pelvis (msec)	12.5	14.0

* Note: No contact on initial impact, contact due to rebound with B-post and headrest
NVD = No valid data collected

TEST NOTES

A complete data set, including all ES-2 instrumentation, can be found by accessing the electronic data from the U.S. Department of Transportation.

The following load cell channels were found to be bad during pre test calibration and inspection:

Driver T12 - FY, MX, MY

Passenger T-12 - MX

The passenger lower neck load cell was not available for use during this test.

There was no valid data collected for the driver arm contact.

SECTION 3
SIDE IMPACT DUMMY (ES-2) AND VEHICLE TEST DATA

DATA SHEET NO. 1**GENERAL TEST AND VEHICLE PARAMETER DATA**Test Vehicle: 2001 Ford Focus 4 doorTest Date: October 5, 2001**TEST VEHICLE INFORMATION**

Make	Ford
Model	Focus
Body Style	4 door
VIN	1FAFP34P81W347952
Color	Painted Orange
Odometer Reading	45 miles
Transmission	Manual
Final Drive	Front
Number of Cylinders	4
Engine Displacement	2.0 liters
Engine Placement	lateral

TEST VEHICLE OPTIONS

Front Airbags	yes
Side Airbags	no
Power Windows	yes
Power Steering	yes
Power Door Locks	yes
Tilt Wheel	yes
Air Conditioning	yes
Power Brakes	yes
Anti-lock Brakes	no
AM/FM	yes
Cruise Control	no

DATA FROM CERTIFICATION LABEL

Manufactured By	Ford Motor Company
Date of Manufacture	6/01

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	221	221
Cold Pressure (kPa)	221	221
Recommend Tire Size	P195/60R15	P195/60R15
Tire Size on Vehicle	P195/60R15	P195/60R15
Tire Manufacturer	Firestone	Firestone

Measured Parameter	Front	Rear	Third	Total
Type of Seats	bucket	bench		
Number of Occupants	2	3		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 Ford Focus 4 door

Test Date: October 5, 2001

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front	Rear	Total	Front	Rear	Total
Left	kg	375.1	242.7		431.8	323.0	
Right	kg	376.0	235.9		383.7	288.5	
Ratio	%	61.1	38.9		57.1	42.9	
Totals	kg	751.1	478.6	1229.7	815.5	611.5	1427.0

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1229.7
Weight of 2 P572F Side Impact Dummies	kg	161.5
Rated Cargo/Luggage Weight (RCLW)	kg	35.0
Calculated Vehicle Target Weight (TVTW)	kg	1426.2

TEST VEHICLE ATTITUDES AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	663	665	670	676	1018
As Tested	mm	644	655	634	647	1121
Fully Loaded	mm	642	661	633	658	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2616
Total Vehicle Length at Left Side	mm	3830
Total Vehicle Length at Centerline	mm	4458
Total Vehicle Length at Right Side	mm	3830
Weight of Ballast in Cargo Area	kg	0

TEST VEHICLE VERTICAL IMPACT LINE DATA

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2616
Target Impact Point Aft of Front Axle	mm	368
Actual Impact Point Aft of Front Axle	mm	379

DATA SHEET NO. 1...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

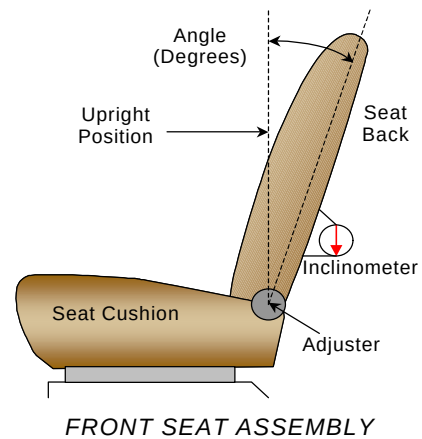
Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001

NORMAL DESIGN RIDING POSITION

Driver seat back angle: 16 degrees from full
forward position

Passenger seat back angle: non adjustable



SEAT FORE/AFT POSITIONS

Driver seat fore/aft total travel: 17 positions

Rear passenger seat fore/aft total travel: non adjustable

Driver seat fore/aft position: 9th position, 1st as one

Rear passenger seat fore/aft position: non adjustable

SEAT BELT UPPER ANCHORAGE

The D ring was placed in the full up position.

STEERING COLUMN ADJUSTMENT

The steering column was placed in the mid position.

DATA SHEET NO. 2
TEST VEHICLE SUMMARY OF RESULTS

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front	Rear	Total	Front	Rear	Total
Left	kg	375.1	242.7		431.8	323.0	
Right	kg	376.0	235.9		383.7	288.5	
Weight Ratio	%	61.1	38.9		57.1	42.9	
Totals	kg	751.1	478.6	1229.7	815.5	611.5	1427.0

MAXIMUM EXTERIOR STATIC CRUSH

Level	Measured Parameter	Units	Maximum Crush	Above Ground
Level 1	Sill Top Height	mm	236	234
Level 2	Occupant H-Point	mm	345	522
Level 3	Mid Door	mm	349	586
Level 4	Window Sill	mm	308	903
Level 5	Window Top	mm	120	1368
N/A	Maximum Penetration	mm	349	586

INSTRUMENTATION

Left Front ES-2 Channels	70
Left Rear ES-2 Channels	64
Vehicle Structure Channels	31
MDB Channels	7
Total	172

DATA SHEET NO. 3**MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS**Impactor: FMVSS 214 Side Impact BarrierTest Date: October 5, 2001**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	1105

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	395.1	293.8	
Right	kg	385.7	287.4	
Ratio	%	57.3	42.7	
Totals	kg	780.8	581.2	1362.0

SPEED AND IMPACT ANGLE DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 - 62.8	62.1
Trap No. 2 Velocity (Redundant)	km/h	61.1 - 62.8	62.0
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	90.3

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	183
B	Top of Bumper	533	800	Left	141
C	Mid Level	686	800	Right	133
D	Top of Stack	813	800	Right	152

MDB INSTRUMENTATION AND CAMERAS

Accelerometers	5
Contact Switches	2
High Speed Cameras	2

DATA SHEET NO. 4**POST TEST OBSERVATIONS**Test Vehicle: 2001 Ford Focus 4 doorTest Date: October 5, 2001**TEST DUMMY INFORMATION AND CONTACT POINTS**

Description	Left Front	Left Rear
Dummy Type / Serial No.	ES-2/009	ES-2/010
Head Contact	B-post, headrest	Side header, C-post
Upper Torso Contact	door trim panel	door trim panel
Lower Torso Contact	door trim panel	door trim panel
Left Knee Contact	door trim panel	door trim panel
Right Knee Contact	left knee	left knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

Description	Front	Rear
Left Side Door Opening	remained closed	remained closed
Right Side Door Opening	remained closed	remained closed
Left Side Seat Movement	none	none
Left SideSeat Back Failure	none	none

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	No failures
Sill Separation	None noted
Windshield Damage	Broke
Window Damage	All windows were down
Other Notable Effects	Broken spot welds on sill at 1200 mm

AIRBAG DEPLOYMENT

	Driver	Right Front	Left Rear
Front	no	no	
Side			

MDB LEFT EDGE IMPACT POINT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	11 rear
Vertical Offset	mm	+/-20	7 up

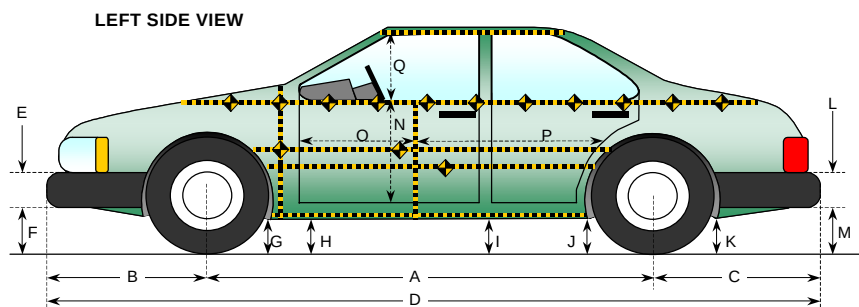
SECTION 4
OCCUPANT AND VEHICLE INFORMATION

DATA SHEET NO. 5

VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001



All Measurements in mm

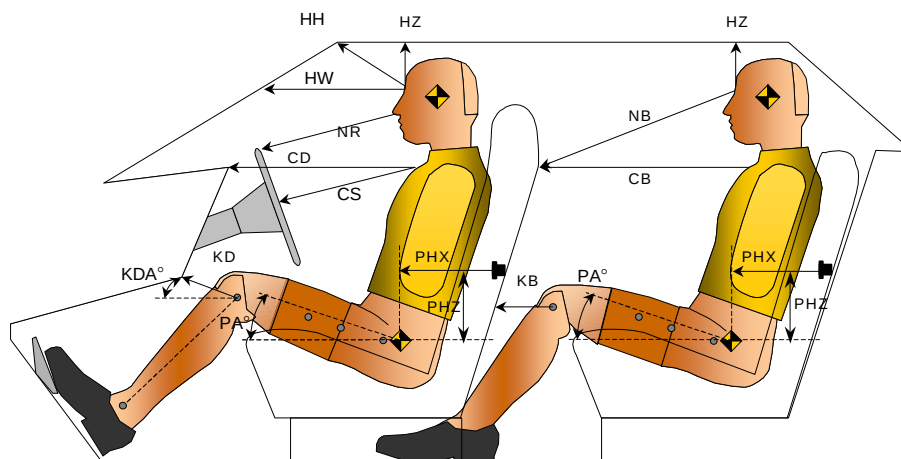
Code	Measurement Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2616	2557	-59
B	Front Axle to FSOV	856	883	27
C	Rear Axle to RSOV	986	929	-57
D	Total Length at Centerline	4458	4369	-89
E	Front Bumper Thickness	135	135	0
F	Front Bumper Bottom to Ground	404	419	15
G	Sill Height at Front Wheel Well	154	176	22
H	Sill Height at Front Door Leading Edge	152	179	27
I	Sill Height at "B" Pillar	150	188	38
J1	Sill Height at Rear Wheel Well	151	156	5
J2	Pinch Weld Height at Rear Wheel Well	147	165	18
K	Sill Height Aft of Rear Wheel Well	252	247	-5
L	Rear Bumper Thickness	180	180	0
M	Rear Bumper Bottom to Ground	399	384	-15
N	Sill Height to Window Bottom Sill	685	618	-67
O	Front Door Leading Edge to Impact CL	746	740	-6
P	Rear Door Trailing Edge to Impact CL	1225	1065	-160
Q	Front Window Opening	465	452	-13
R	Right Side Length	3830	3836	6
S	Left Side Length	3830	3754	-76
T	Vehicle Width at "B" Post	1695	1450	-245

DATA SHEET NO. 6

ES-2 LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001



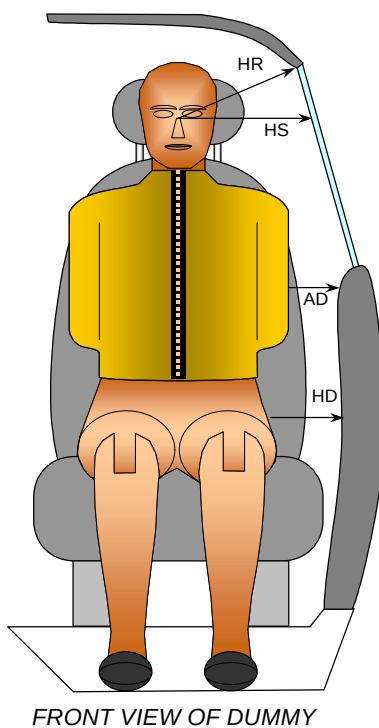
Driver Code	Pass. Code	Measurement Description	Left Front 009		Left Rear 010	
			Length(mm)	Angle(°)	Length(mm)	Angle(°)
HH		Head to Header	336			
HW		Head to Windshield	552			
HZ	HZ	Head to Roof	139		149	
NR	NB	Nose to Rim/Nose to Seatback	482		554	
CD	CB	Chest to Dash or Seatback	551		485	
CS		Chest to Steering Wheel	370			
KDL	KBL	Left Knee to Dash or Seatback	165	0.0	190	0.0
KDR	KBR	Right Knee to Dash or Seatback	182	0.0	186	0.0
PA	PA	Pelvic Angle (Longitudinal)		24.1		22.2
PA	PA	Pelvic Angle (Lateral)		0.4		0.5
SA	SA	Spine Angle (Longitudinal)		24.7		24.7
SA	SA	Spine Angle (Lateral)		1.5		0.1
PHX	PHX	H-Point to Striker (X-Axis)	182		229	
PHZ	PHZ	H-Point to Striker (Z-Axis)	101		255	

DATA SHEET NO. 7

ES-2 LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001



Code	Measurement Description	Units	Left Front 009	Left Rear 010
HR	Head to Side Header	mm	172	162
HS	Head to Side Window	mm	276	280
AD	Arm to Door	mm	62	72
HD	H-Point to Door	mm	91	123

DATA SHEET NO. 8

DUMMY POSITIONING

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001

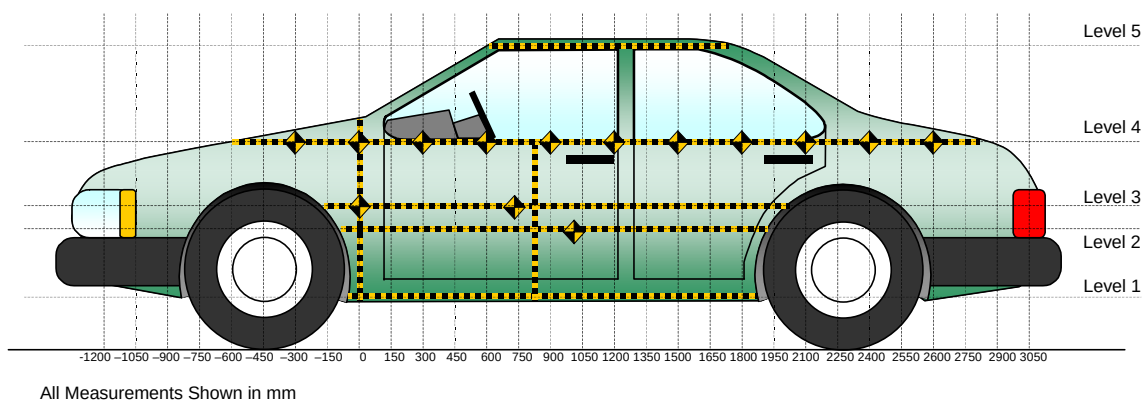
	Left Front	Left Front	Left Rear	Left Rear S/N 010
	H-Point	Dummy	H-Point	Dummy
HP to Floor Z (mm)	243	240	128	142
HP to Hinge X (mm)	710	716	626	621
HP to Sill Y (mm)	203	203	235	237
HP to Striker X (mm)	325	314	428	420
HP to Dash X (mm)	538	546	570	562
HP to Header Z (mm)	752	740	751	736
H-POINT MACHINE (deg)				
Left Knee	131		124	
Right Knee	132		120	
Left Foot	115		133	
Right Foot	85		134	
Left Leg (mm)	132		127	
Right Leg (mm)	130		130	
Hip Angle	106		103	
Back Angle	27		24	

DATA SHEET NO. 9

VEHICLE SIDE MEASUREMENTS

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001



LEFT SIDE VIEW

Measurements are taken with vehicle in the as tested condition.

Measurements along the vertical 800 mm.

Level	Measurement Description	Units	Height Above Ground
5	Window Top	mm	1368
4	Window Sill	mm	903
3	Mid Door	mm	586
2	Occupant H-Point	mm	522
1	Axle Centerline Height (or Sill Top)	mm	234

DATA SHEET NO. 10

VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900															
-750															
-600				240					287					47	
-450				220					271					51	
-300				205					264					59	
-150				191					260					69	
0		142	140	184			248	245	271			106	105	87	
150	192	146	145	182		296	425	395	312		104	279	250	130	
300	196	140	143	177		322	449	417	356		126	309	274	179	
450	200	140	140	175		346	458	426	387		146	318	286	212	
600	200	138	138	173		360	457	424	398		160	319	286	225	
750	200	135	136	173	389	375	456	429	413	501	175	321	293	240	112
900	200	133	136	173	380	395	456	434	439	435	195	323	298	266	55
1050	198	133	135	176	379	418	458	439	454	460	220	325	304	278	81
1200	197	136	136	178	380	433	481	477	486	489	236	345	341	308	109
1350	197	133	136	181	382	391	478	485	484	502	194	345	349	303	120
1500	200	135	136	186	385	353	448	472	481	458	153	313	336	295	73
1650	195	137	138	190	386	324	412	436	448	416	129	275	298	258	30
1800	180	143	140	195	391	294	377	384	391	499	114	234	244	196	108
1950		142	138	206	395		263	289	283	494		121	151	77	99
2100			132	212				224	313				92	101	
2250			134	222				210	305				76	83	
2400			150	232				200	306				50	74	
2550			162	243				201	314				39	71	
2700				254					321					67	
2850				271					330					59	
3000				291					341					50	

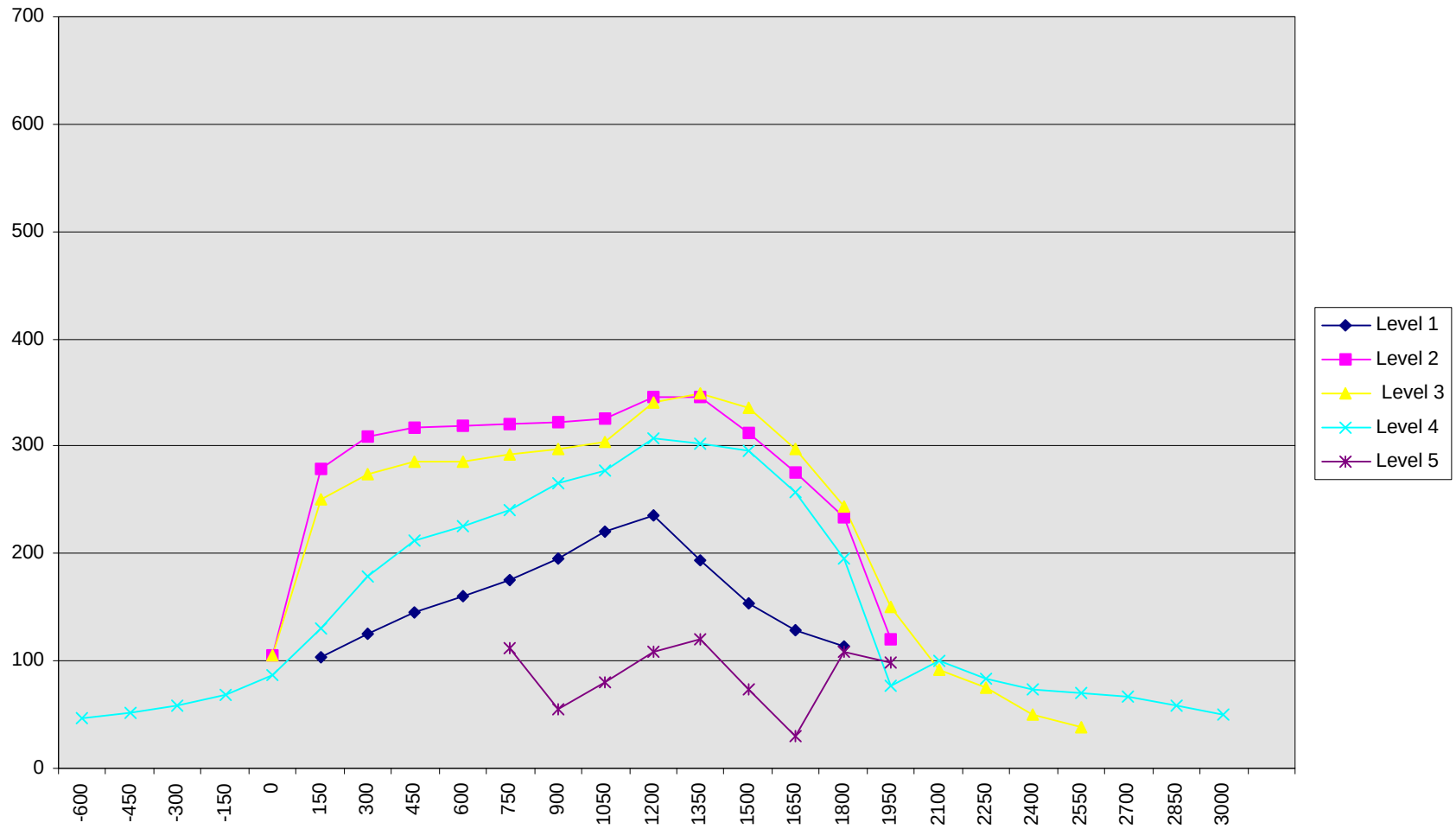
DATA SHEET NO. 10...(continued)

VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001

20

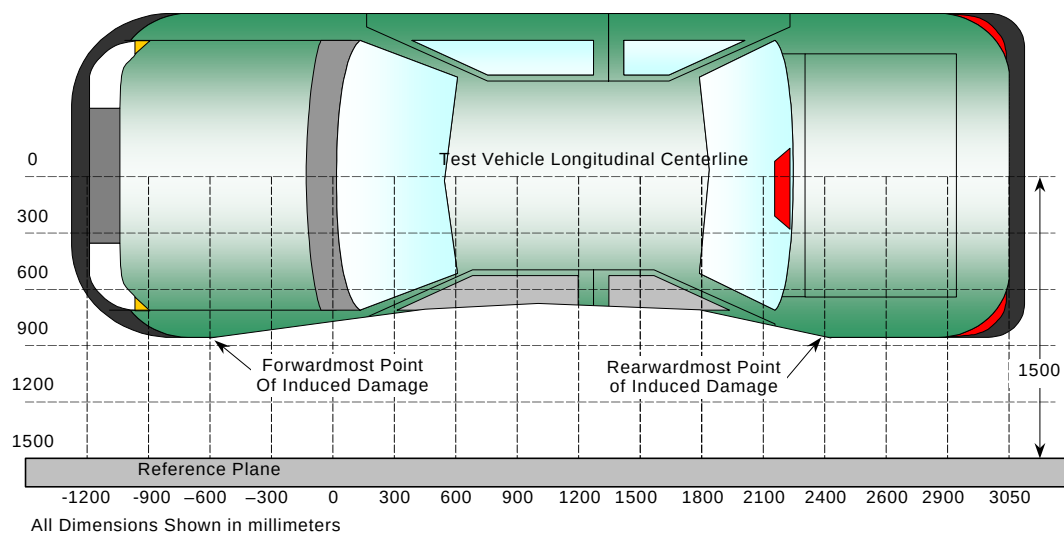


DATA SHEET NO. 11

VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001



TOP VIEW

Damage Profile Distances

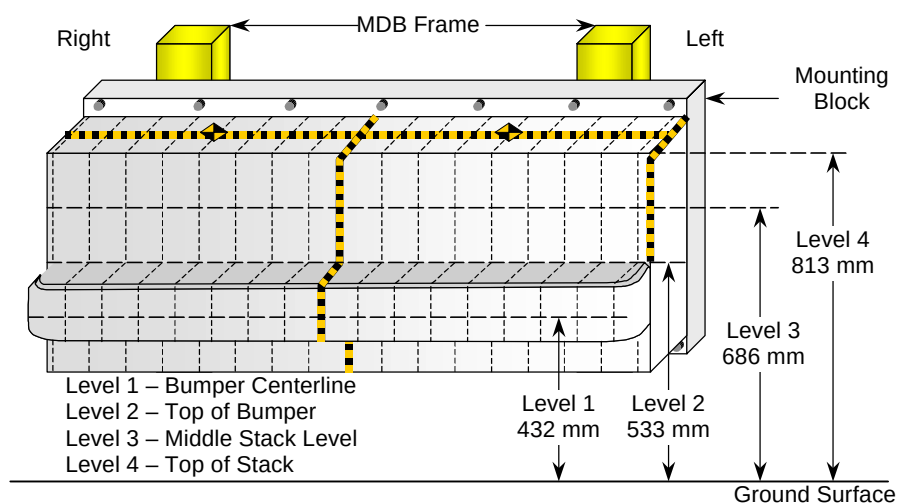
DPD	Distance from Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1	3000 mm	4	291	341	50
2	2310 mm	4	220	310	90
3	1575 mm	3	137	454	317
4	830 mm	2	134	456	322
5	110 mm	4	189	262	73
6	-600 mm	4	240	287	47

DATA SHEET NO. 12

DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001



DEFORMABLE BARRIER STATIC CRUSH

Stack Level	Distance Right of Center								C _L	Distance Left of Center							
	800	700	600	500	400	300	200	100		100	200	300	400	500	600	700	800
4	85	35	9	-2	0	8	24	19	30	35	32	34	48	35	89	129	183
3	67	31	13	10	7	7	9	11	10	12	14	19	22	34	48	87	141
2	133	122	94	73	57	39	50	60	60	63	67	73	78	84	94	104	124
1	152	125	95	77	61	60	64	69	74	77	83	89	99	103	113	132	151

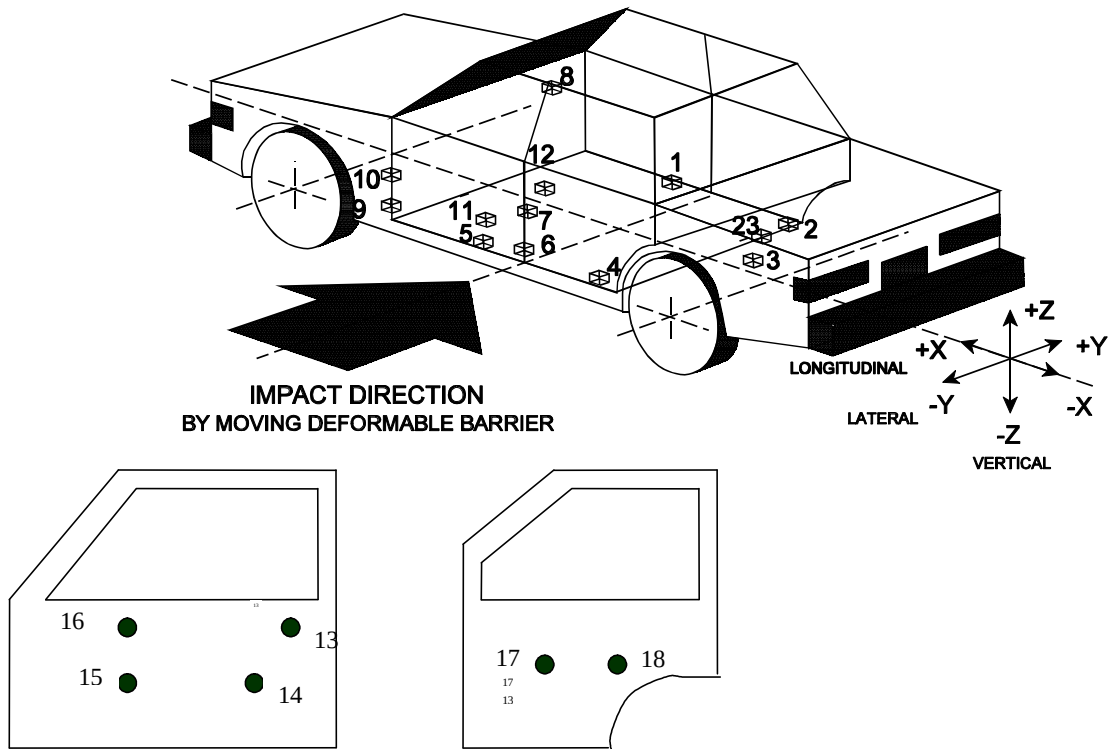
All Dimensions in mm

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001



No.	Location
1	Right Side Sill at Front Seat
2	Right Side Sill at Rear Seat
3	Rear Floorpan Above Axle
4	Left Side Sill at Rear Door
5	Left Side Sill at Front Door
6	Left Lower B Post
7	Left Mid B Post
8	Left Upper B Post
9	Left Lower A Post
10	Left Mid A Post
11	Driver Seat Track
12	Vehicle CG

No.	Location
13	Left Front Door @ Mid Rib
14	Left Front Door @ Pelvis
15	Left Front Door @ Knee
16	Left Front Door @ Arm
17	Left Rear Door @ Mid Rib
18	Left Rear Door @ Pelvis
19	Left Rear Door @ Knee
20	Left Rear Door @ Arm
21	Left Driver Seat Frame
22	Right Driver Seat Frame
23	Right Rear Occupant Compartment

DATA SHEET NO. 13...(continued)

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001

VEHICLE ACCELEROMETER PEAK DATA

Loc. No.	Accelerometer Location	Long. (X) Maximums (g's) (CFC 60)		Lat. (Y) Maximums (g's) (CFC 60)		Vert. (Z) Maximums (g's) (CFC 60)		Resultant (g's) (CFC 60)
		Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Max.
1	Right Side Sill at Front Seat	3.0	8.0	19.8	2.1	2.9	4.5	21.6
2	Right Side Sill at Rear Seat	3.2	8.4	25.6	3.0	3.2	6.2	27.0
3	Rear Floorpan Above Axle	4.7	8.8	21.4	2.1	6.3	13.0	22.2
4	Left Side Sill at Rear Door			69.3	29.5			
5	Left Side Sill at Front Door			50.2	22.6			
6	Left Lower B Post			102.1	18.7			
7	Left Mid B Post			172.9	36.5			
8	Left Upper B Post			40.8	50.3			
9	Left Lower A Post			120.5	74.3			
10	Left Mid A Post			54.7	5.6			
11	Driver Left Seat Track			101.1	47.3			
12	Vehicle CG	4.2	12.4	26.4	9.3	10.3	13.9	29.0
13	Left Front Door @ Mid Rib			152.0	144.1			
14	Left Front Door @ Pelvis			170.6	84.8			
15	Left Front Door @ Knee			226.4	71.5			
16	Left Front Door @ Arm			227.3	105.4			
17	Left Rear Door @ Mid Rib			154.6	81.7			
18	Left Rear Door @ Pelvis			214.5	198.4			
19	Left Rear Door @ Knee			254.2	121.7			
20	Left Rear Door @ Arm			167.0	131.3			
21	Left Driver Seat Frame			124.8	28.0			
22	Right Driver Seat Frame			118.5	30.6			
23	Right Rear Occupant Compartment			27.5	2.2			

DATA SHEET NO. 13...(continued)

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001

VEHICLE ACCELEROMETER COORDINATES

Loc. No.	Description	Coordinates (mm)*		
		X	Y	Z
1	Right Side Sill at Front Seat	2482	658	191
2	Right Side Sill at Rear Seat	1634	682	200
3	Rear Floorpan Above Axle	1041	0	501
4	Left Side Sill at Rear Door	1360	-700	211
5	Left Side Sill at Front Door	2323	-700	194
6	Left Lower B Post	1956	-658	266
7	Left Mid B Post	1954	-698	976
8	Left Upper B Post	1934	-493	1435
9	Left Lower A Post	2999	-673	467
10	Left Mid A Post	2997	-753	963
11	Driver Left Seat Track	2174	-552	366
12	Vehicle CG	2419	0	230
13	Left Front Door @ Mid Rib	2189	-714	956
14	Left Front Door @ Pelvis	2276	-732	424
15	Left Front Door @ Knee	2643	-712	688
16	Left Front Door @ Arm	2444	-725	944
17	Left Rear Door @ Mid Rib	1306	-730	994
18	Left Rear Door @ Pelvis	1563	-726	454
19	Left Rear Door @ Knee	1778	-721	692
20	Left Rear Door @ Arm	1550	-718	951
21	Left Driver Seat Frame	1924	-510	768
22	Right Driver Seat Frame	1924	-165	783
23	Right Rear Occupant Compartment	1798	358	428

Reference Points X - Rear Bumper (+ Forward)
 Y - Vehicle Centerline (+ to right)
 Z - Ground Level (+ up)

DATA SHEET NO. 14

MDB ACCELEROMETER LOCATIONS AND DATA SUMMARY

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001

MDB ACCELEROMETER PEAK DATA AND LOCATIONS

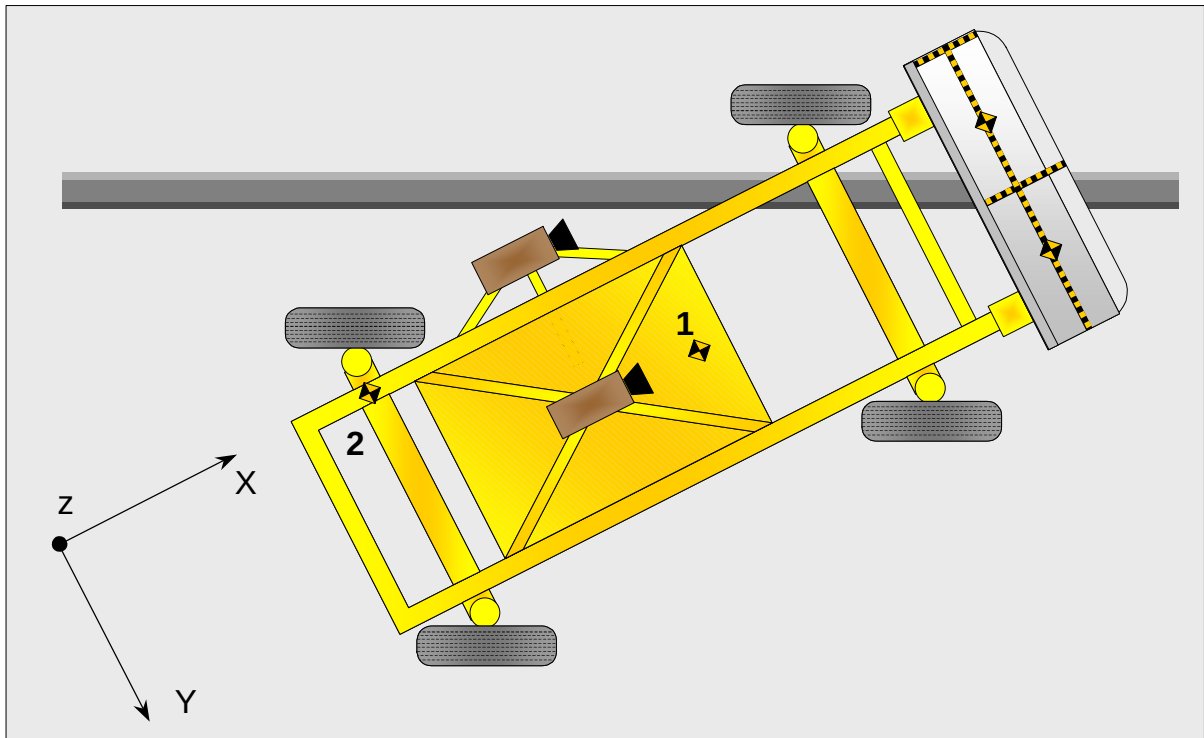
Loc. No.	Accelerometer Location	Measurement (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	MDB CG	-1092	0	483	X	1.6	186	17.5	41
					Y	2.0	61	6.9	16
					Z	23.8	56	18.3	62
					RES	25.5	56		
2	MDB Rear	-2591	-625	622	X	1.9	191	21.2	34
					Y	6.4	27	1.8	199

Reference Points

X - MDB Front Axle

Y - MDB Centerline

Z - Ground Plane

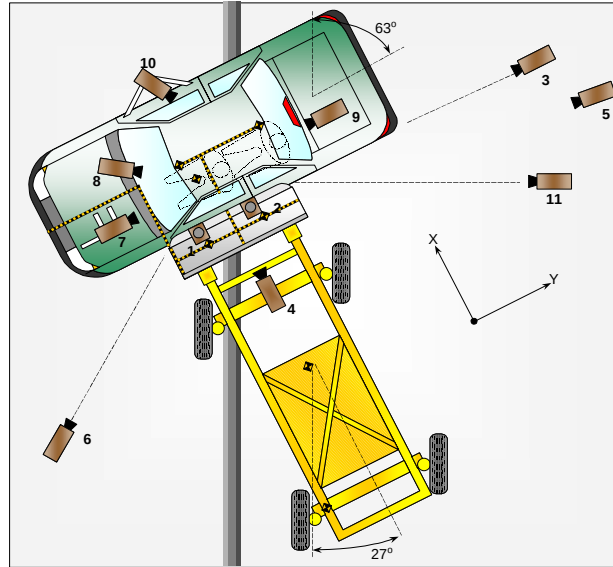


DATA SHEET NO. 15

HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2001 Ford Focus 4 door

Test Date: October 5, 2001



No.	Camera View	Location (mm)			Lens (mm)	Film Speed (fps)
		X	Y	Z		
1	Overhead Overall	-160	930	5000	8	833
2	Overhead Close-up	-750	-420	5000	50	985
3	Right LoCam	-500	10600	1950	35	505
4	MDB Onboard, Centerline of Impact				13	1010
5	MDB Impact				25	1010
6	Left Side Overall	-4040	-5200	2660	25	1053
7	Vehicle Onboard Front SID, Front				13	514
8	Vehicle Onboard Front SID, Hip to Door				13	608
9	Vehicle Onboard Rear SID, Hip to Door				13	498
10	Vehicle Onboard Rear SID, Rear				13	500
11	Real Time				13	32

Reference Points
 X - + Forward of Impact
 Y - +Right of Impact
 Z - + Up from Ground

APPENDIX A

PHOTOGRAPHS

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Photo No. A-1 - Pre-Test Front View of Test Vehicle

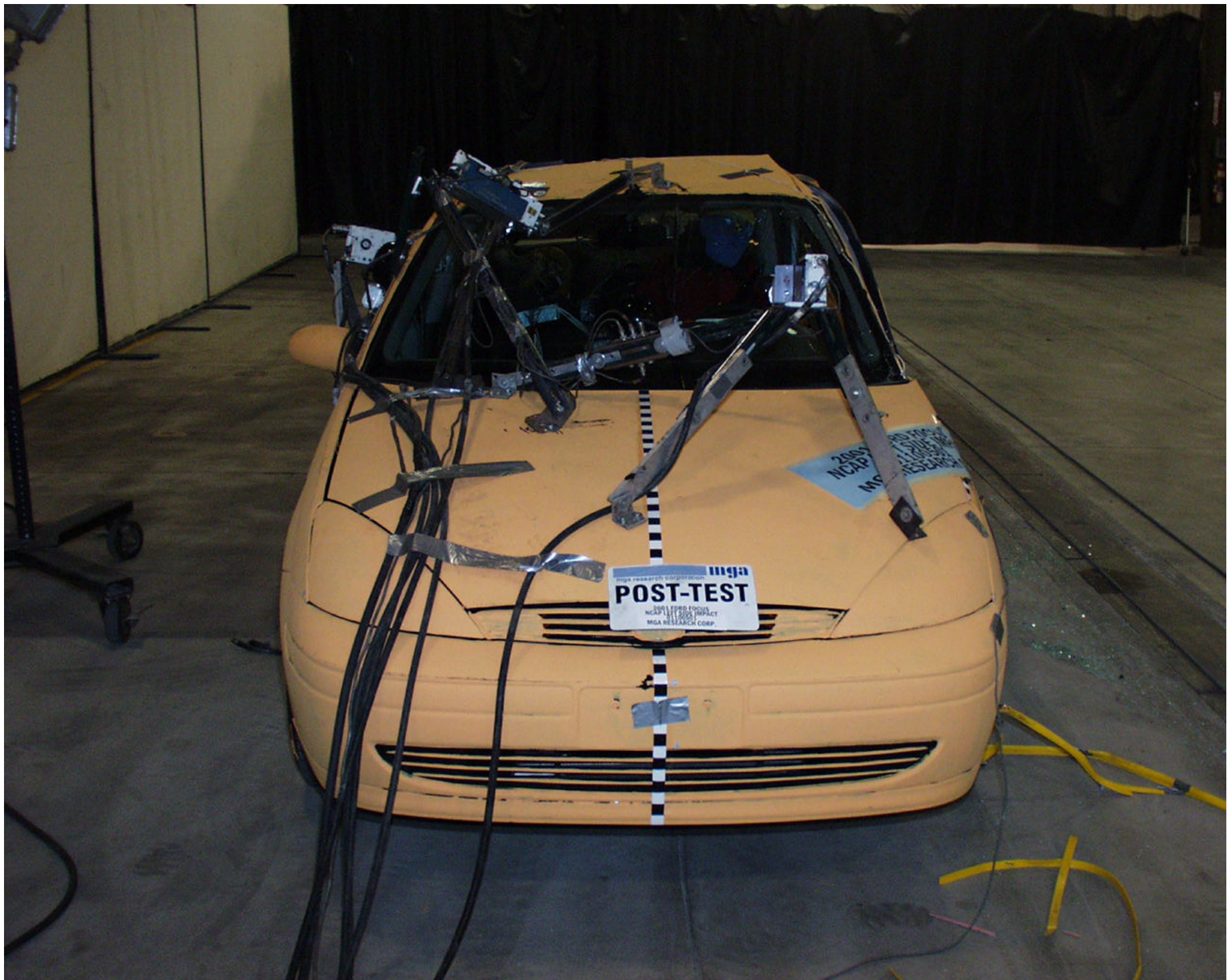


Photo No. A-2 - Post-Test Front View of Test Vehicle



Photo No. A-3 - Pre-Test Rear View of Test Vehicle

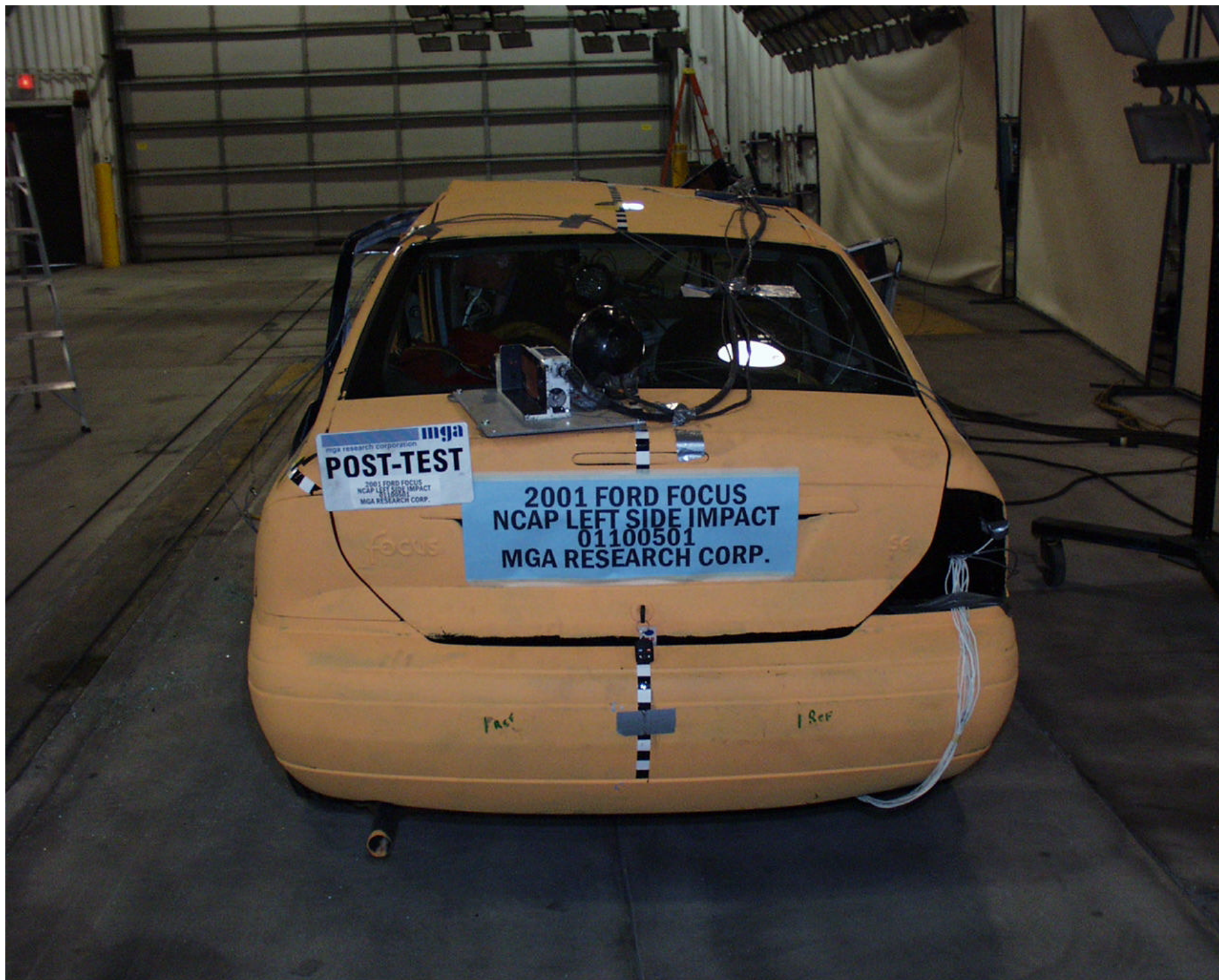


Photo No. A-4 - Post-Test Rear View of Test Vehicle

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Photo No. A-5 - Pre-Test Left Side View of Test Vehicle

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Photo No. A-6 - Post-Test Left Side View of Test Vehicle



Photo No. A-7 - Pre-Test MDB Positioned Against Vehicle (left side)



Photo No. A-8 - Pre-Test MDB Positioned Against Vehicle (right side)



Photo No. A-9 - Pre-Test MDB Positioned Against Vehicle Overhead View

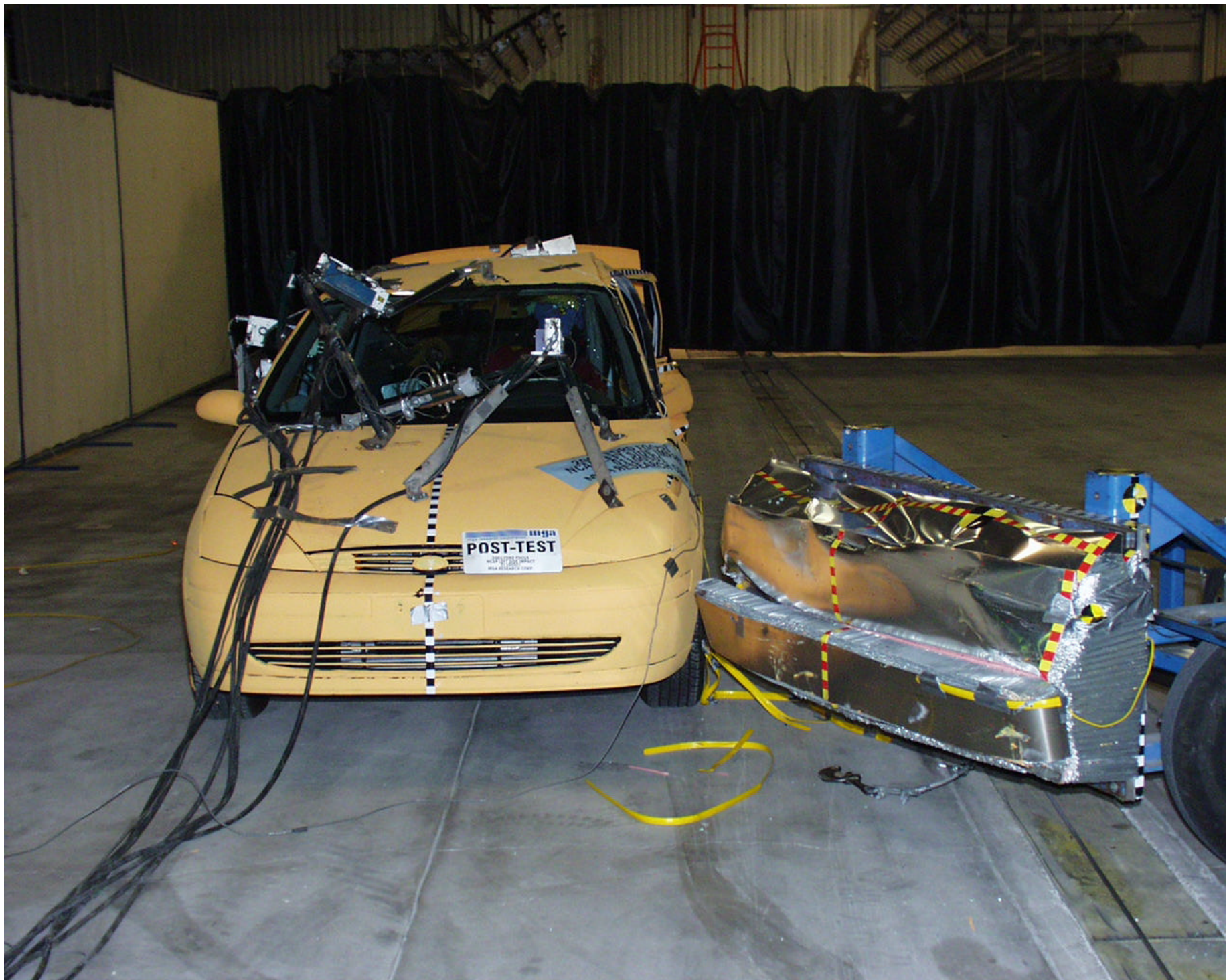


Photo No. A-10 -Post-Test MDB and Vehicle (left side)



Photo No. A-11 - Post-Test MDB and Vehicle (right side)

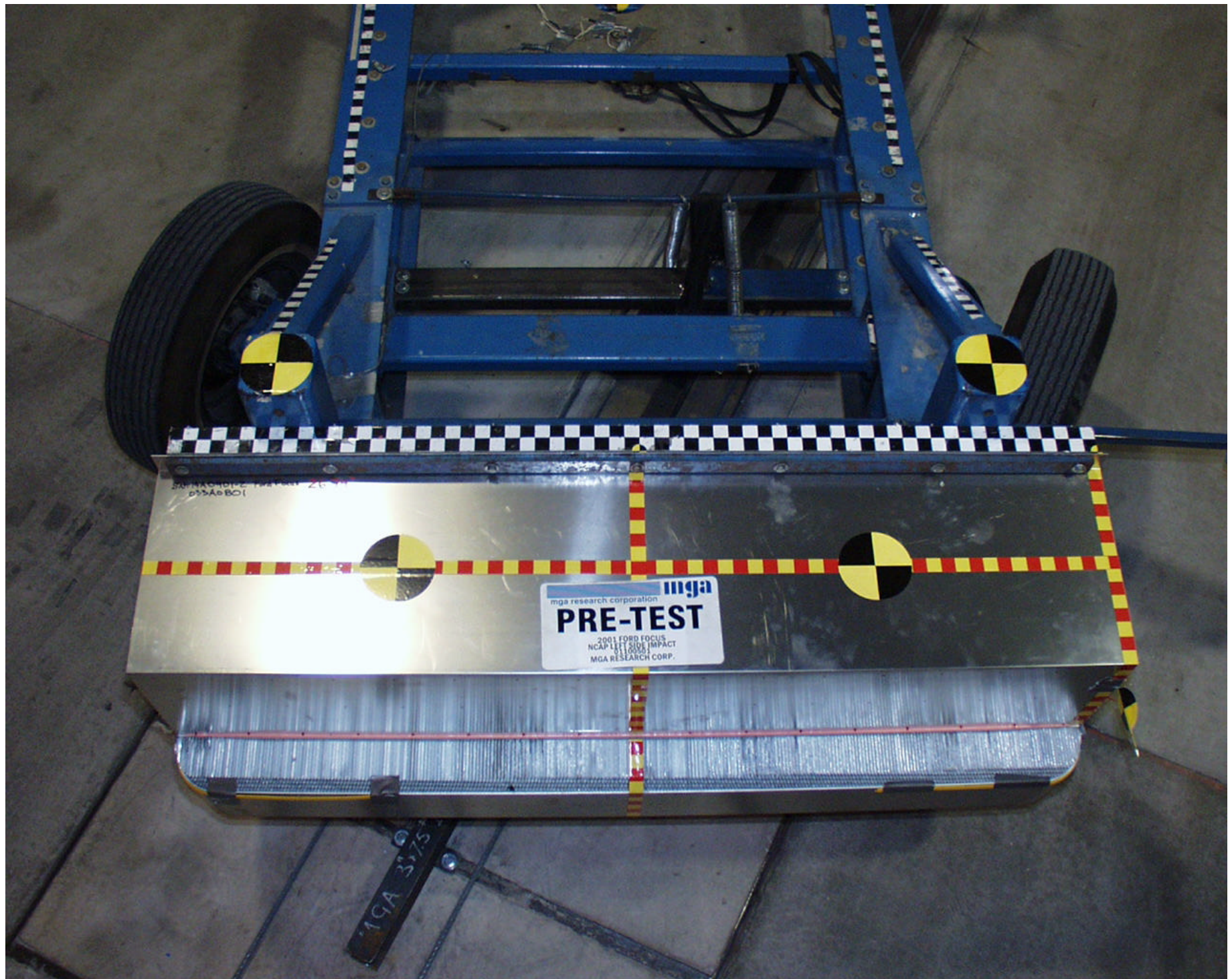


Photo No. A-12 - Pre-Test MDB Top View

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Photo No. A-13 - Post-Test MDB Top View

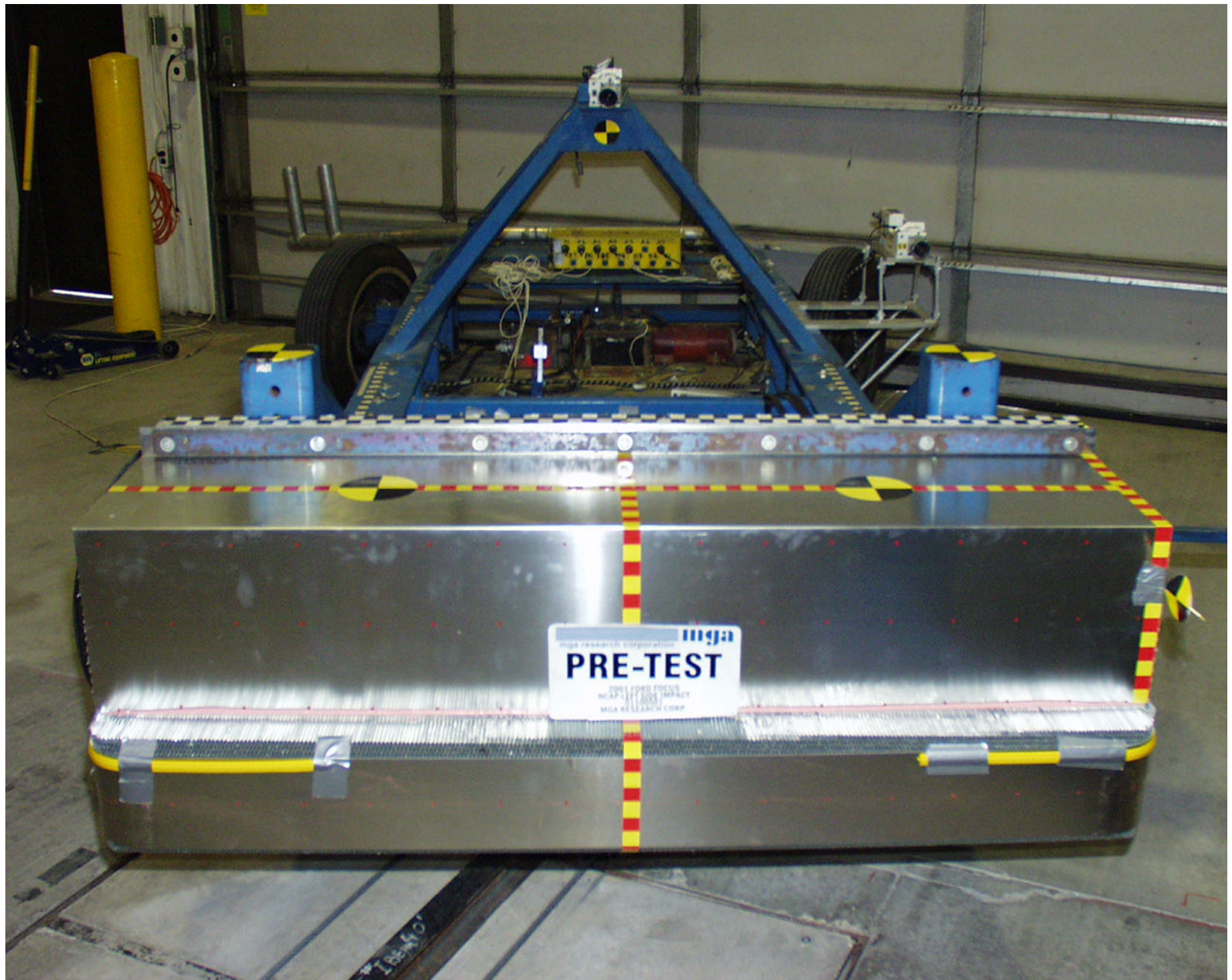


Photo No. A-14 - Pre-Test MDB Front View

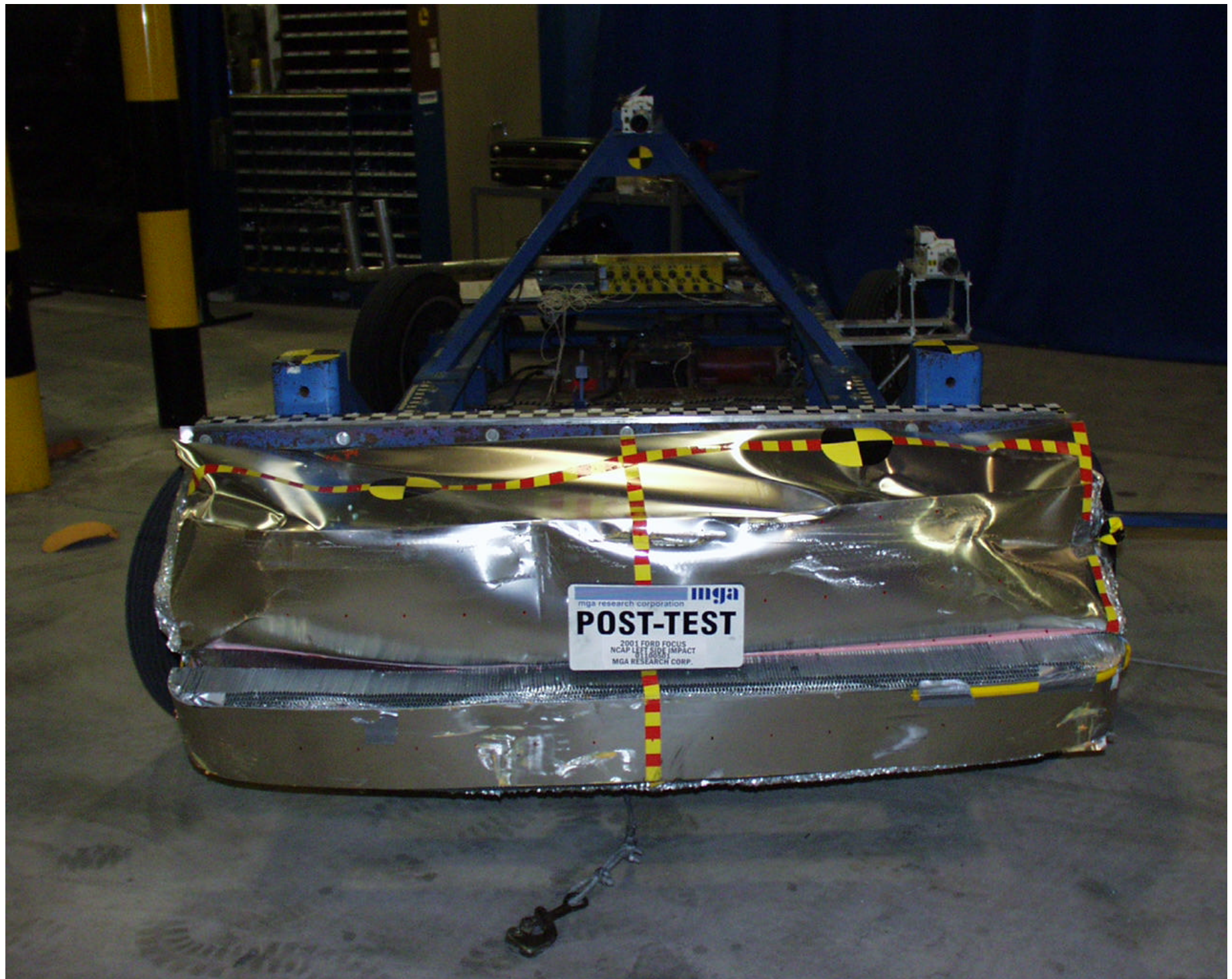


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Photo No. A-16 - Pre-Test MDB Right Side View



Photo No. A-17 - Post-Test MDB Right Side View



Photo No. A-18 - Pre-Test MDB Left Side View

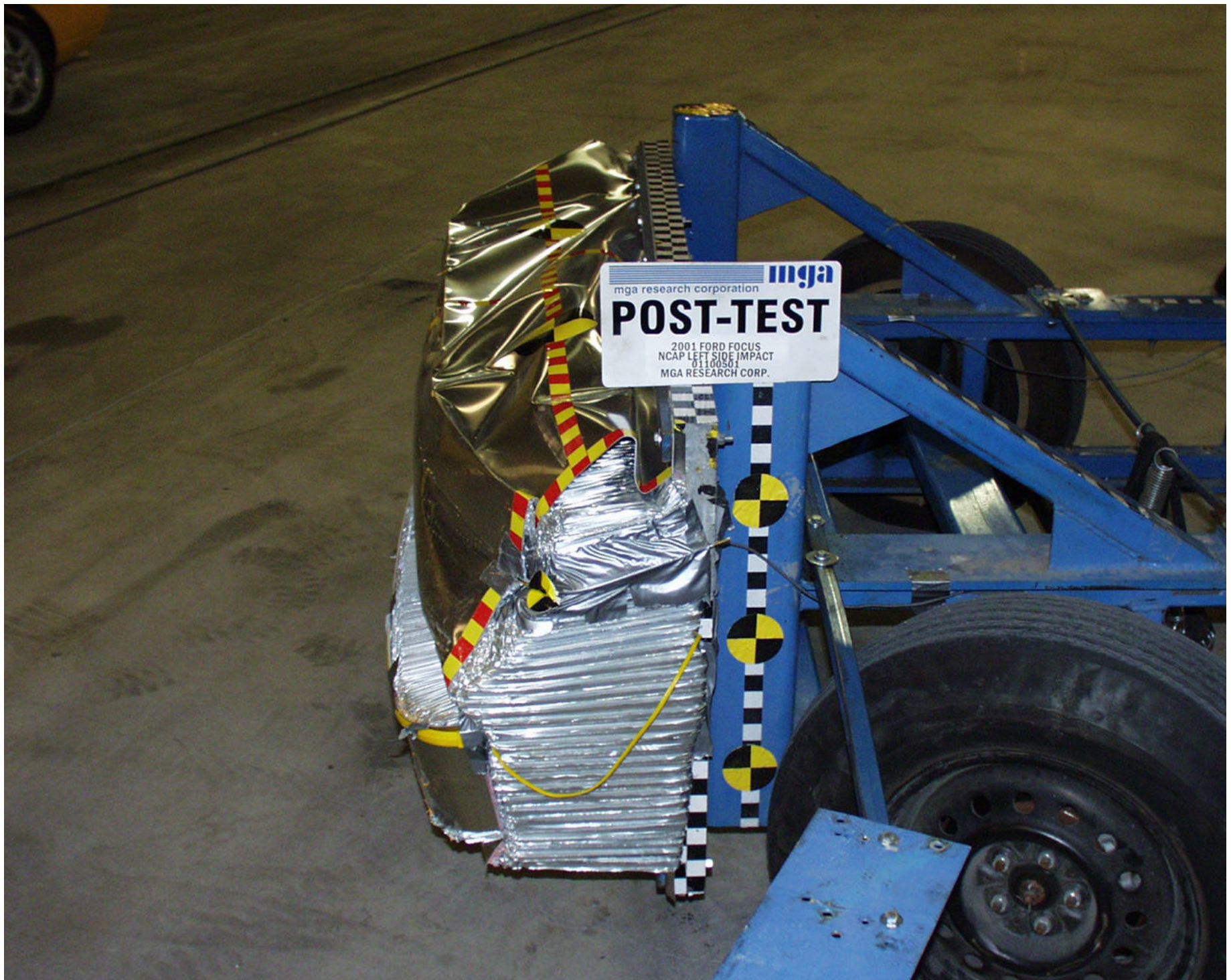


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Photo No. A-20 - Pre-Test Driver Dummy Left Side View



Photo No. A-21 - Post-Test Driver Dummy Left Side View



Photo No. A-22 - Pre-Test Driver Dummy Left Side View (Door Open)

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Photo No. A-23 - Pre-Test Driver Dummy Right Side View



Photo No. A-24 - Post-Test Driver Dummy Right Side View



Photo No. A-25 - Pre-Test Driver Dummy Shoulder and Door Top View



Photo No. A-26 - Post-Test Driver Dummy Shoulder and Door Top View



Photo No. A-27 - Pre-Test Passenger Dummy Left Side View



Photo No. A-28 - Post-Test Passenger Dummy Left Side View



Photo No. A-29 - Pre-Test Passenger Dummy Left Side View (Door Open)



Photo No. A-30 - Pre-Test Passenger Dummy Right Side View



Photo No. A-31 - Post-Test Passenger Dummy Right Side View



Photo No. A-32 - Pre-Test Passenger Dummy Shoulder and Door Top View



Photo No. A-33 - Post-Test Passenger Dummy Shoulder and Door Top View



Photo No. A-34 - Post-Test Driver Dummy Contact



Photo No. A-35 - Post-Test Passenger Head Contact



Photo No. A-36 - Post-Test Passenger Contact

A-37



Photo No. A-37 – Impact



Photo No. A-38 - Pre-Test Impact Point



Photo No. A-39 - Post-Test Impact Point

focus		RECOMMENDED TIRE SIZE AND INFLATION PRESSURE (COLD) DIMENSIONS DES PNEUS et PRESSIONS DE GONFLAGE RECOMMANDÉES (À FROID)		A	
TIRE SIZE DIMENSIONS DES PNEUS		LOAD RANGE CHARGE NOMINALE	PRESSION PRESSURE		
			AVANT FRONT	ARRIÈRE REAR	
P185/65 R14 85S* **		ALL	221 kpa / 32 PSI	221 kpa / 32 PSI	
P195/60 R15 87T*		ALL	221 kpa / 32 PSI	221 kpa / 32 PSI	
P205/50 R16 86H*		ALL	234 kpa / 34 PSI	234 kpa / 34 PSI	
T125/80 R15 95M* TEMPORAL SPARE PNEU DE SECOURS PROVISOIRE		ALL	415 kpa / 60 PSI	415 kpa / 60 PSI	
*MUST BE REPLACED WITH AN EQUIVALENT TYPE SPEED RATED TIRE. *NE REMPLACER QUE PAR UN PNEU DONT L'INDICE DE VITESSE EST LE MEME.			**SNOW CHAINS MAY ONLY BE USED WITH THIS TIRE. **N'UTILISER DES CHAÎNES À NEIGE QU'AVEC CE TYPE DE PNEU.		
TOTAL LOAD = OCCUPANTS PLUS LUGGAGE			CHARGE TOTALE = OCCUPANTS PLUS BAGAGES		
MAXIMUM LOAD CHARGE MAXIMALE		OCCUPANTS OCCUPANTS	DISTRIBUTION RÉPARTITION		LUGGAGE BAGAGES
			FRONT AVANT	REAR ARRIÈRE	
375 kg/826.7 lb		5	2	3	35 kg/77.2 lb
FOR SUSTAINED HIGH SPEED, TRAILER TOWING, RECREATIONAL ACCESSORIES, SNOW CHAINS OR TEMPORAL SPARE INFORMATION - SEE OWNER GUIDE. HAUTES VITESSES SOUTENUES, REMORQUES, ACCESSOIRES DE LOISIRS, CHAÎNES À NEIGE ET PNEU DE SECOURS PROVISOIRE : CONSULTER LE GUIDE DU PROPRIÉTAIRE.					
YUSA-F06099-AD					

Photo No. A-40 - Tire Placard

MFD. BY FORD MOTOR CO. IN U.S.A.

DATE: 06/01

GVWR: 3620LB/1641KG

FRONT GAWR: 1965LB 891KG

REAR GAWR: 1745LB 791KG

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

VIN: 1FAFP34P81W347952

F0040

TYPE: PASSENGER

R0037



EXT PNT: UA

IRC: 41

DSO:

BRK

INT TR

TP/PS

R

AXLE

TR

SPR

1AK1A

A

EW

3

PP

A

SOA

UPC

2U5A-1520472-4A

Photo No. A-41 - Vehicle Certification Label

APPENDIX B

ES-2, VEHICLE, AND MDB RESPONSE DATA

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* No valid data after 60 msec.

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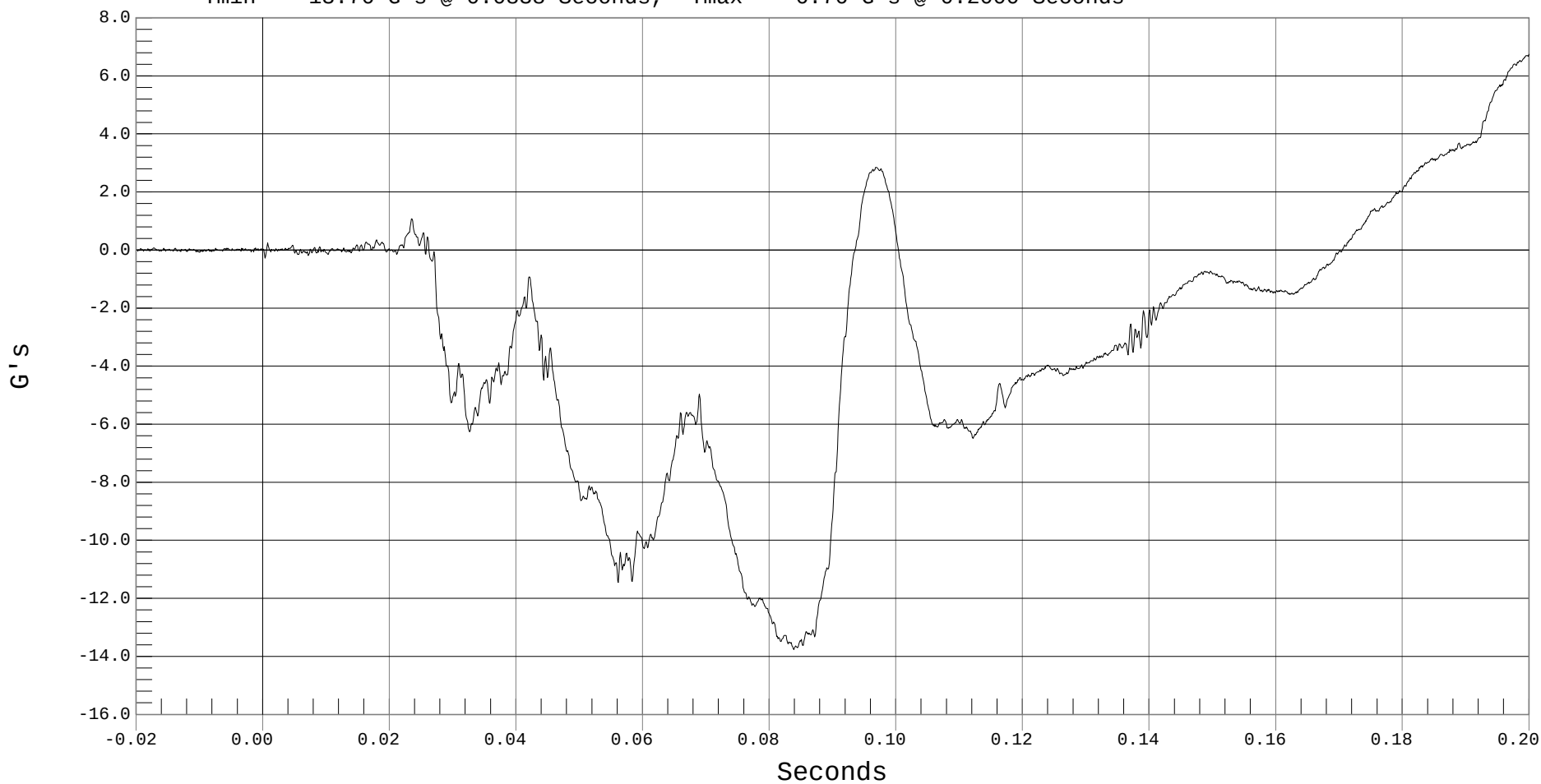
DRIVER HEAD CG X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD CG X, B01102AT.A01

Ymin = -13.76 G's @ 0.0838 Seconds, Ymax = 6.76 G's @ 0.2000 Seconds





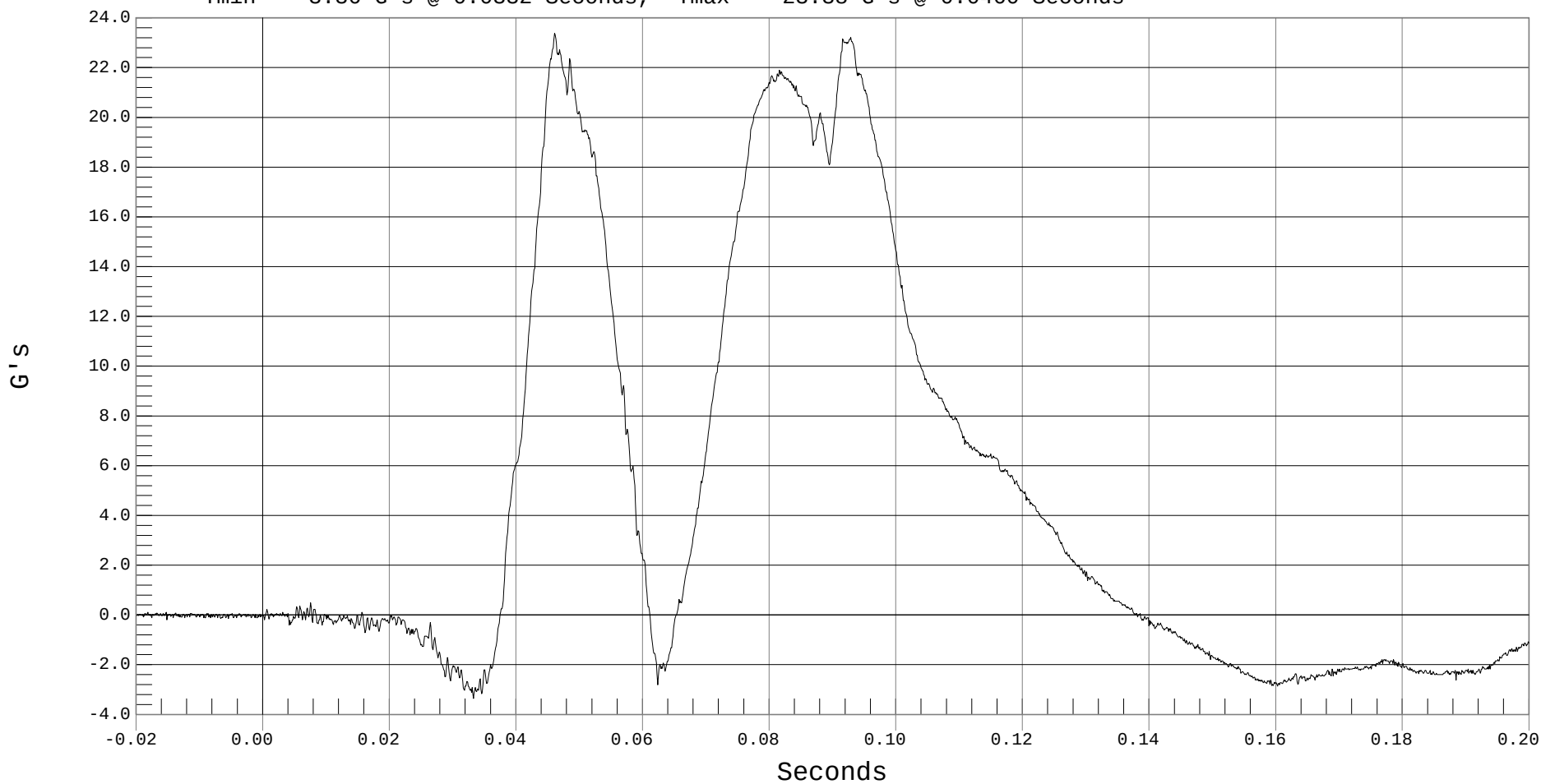
DRIVER HEAD CG Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD CG Y, B01102AT.A02

Ymin = -3.36 G's @ 0.0332 Seconds, Ymax = 23.38 G's @ 0.0460 Seconds





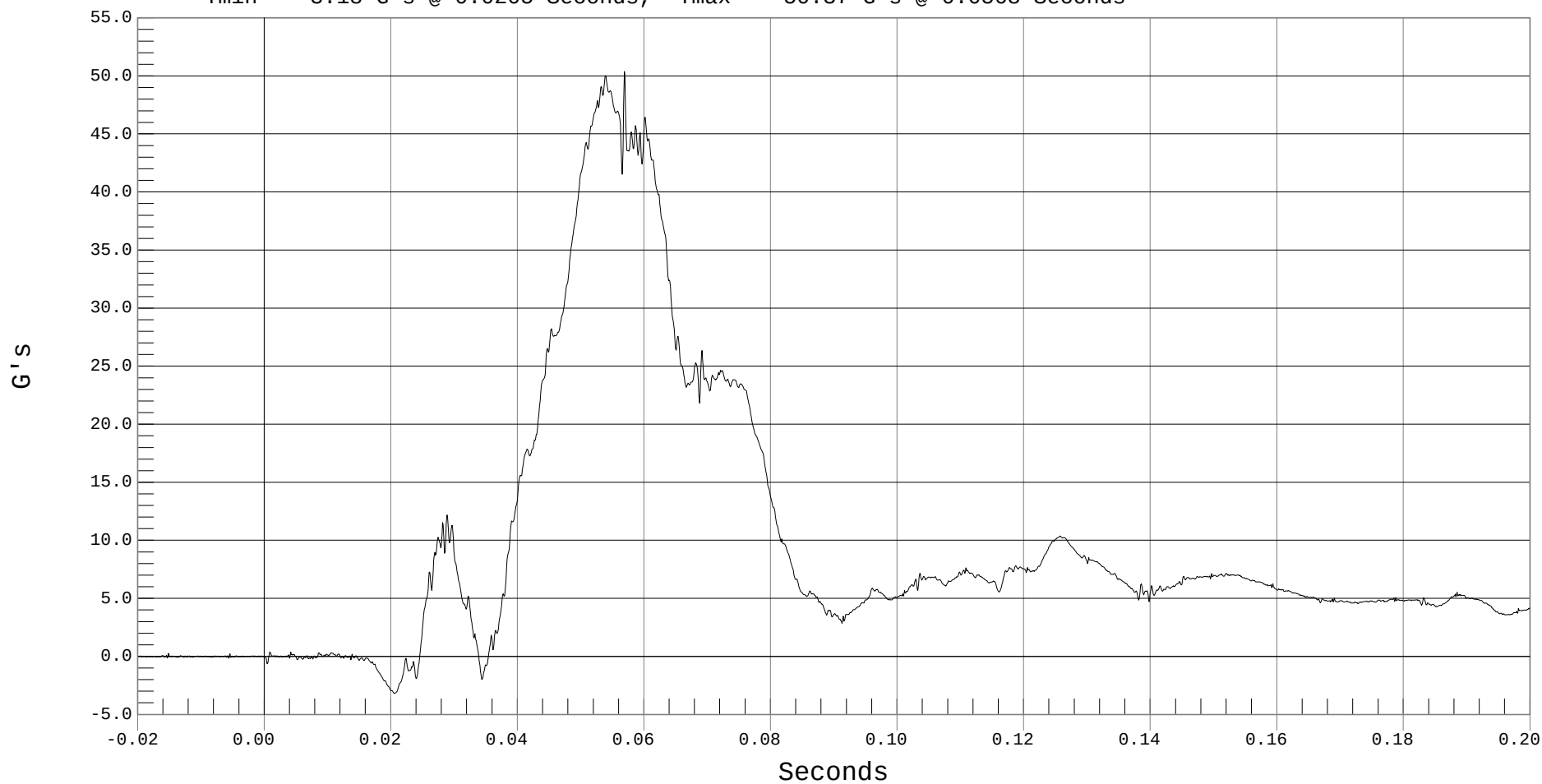
DRIVER HEAD CG Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD CG Z, B01102AT.A03

Ymin = -3.18 G's @ 0.0205 Seconds, Ymax = 50.37 G's @ 0.0568 Seconds





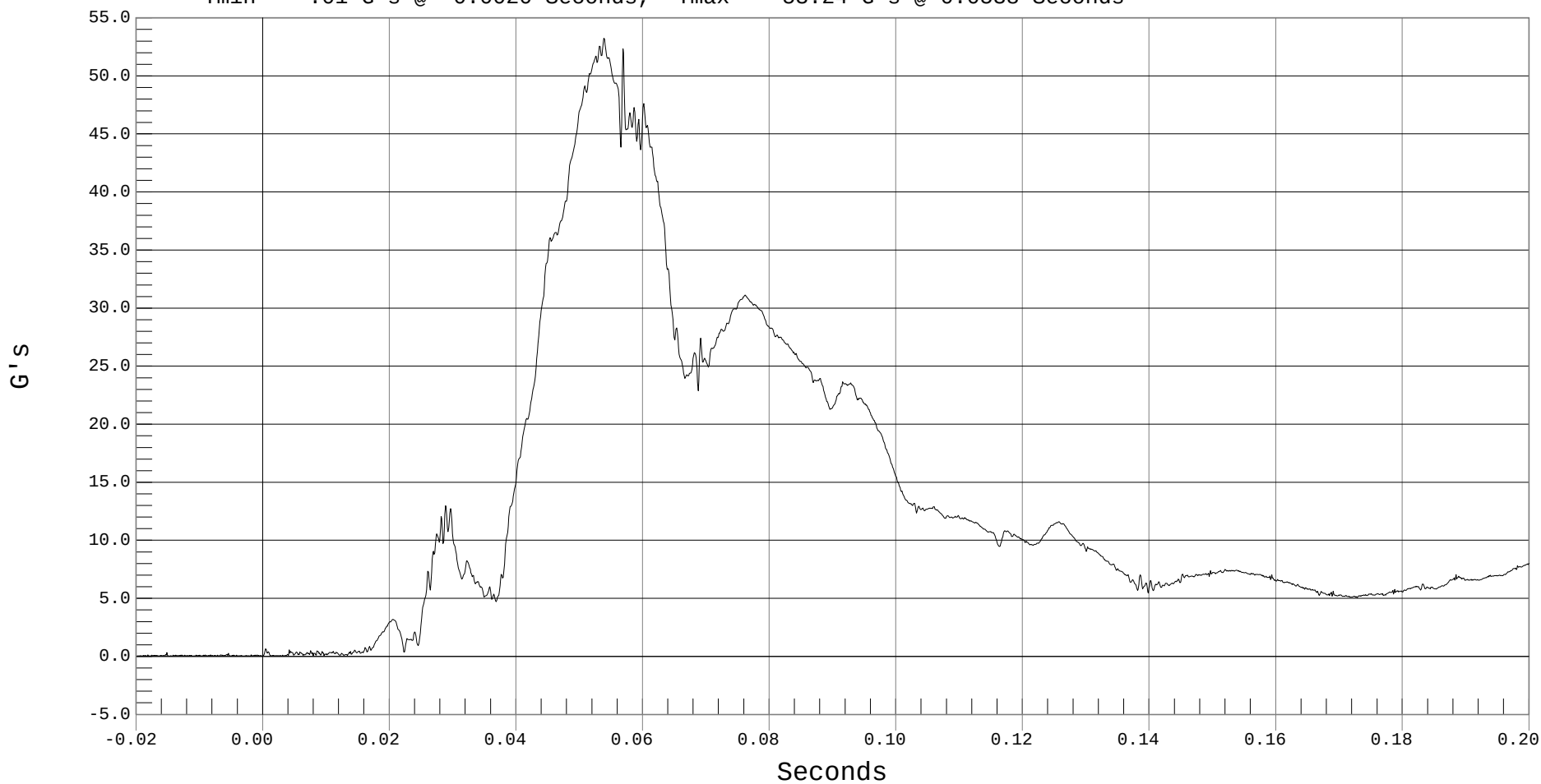
DRIVER HEAD CG RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD RESULTANT, B01102AV.A01

Ymin = .01 G's @ -0.0020 Seconds, Ymax = 53.24 G's @ 0.0538 Seconds





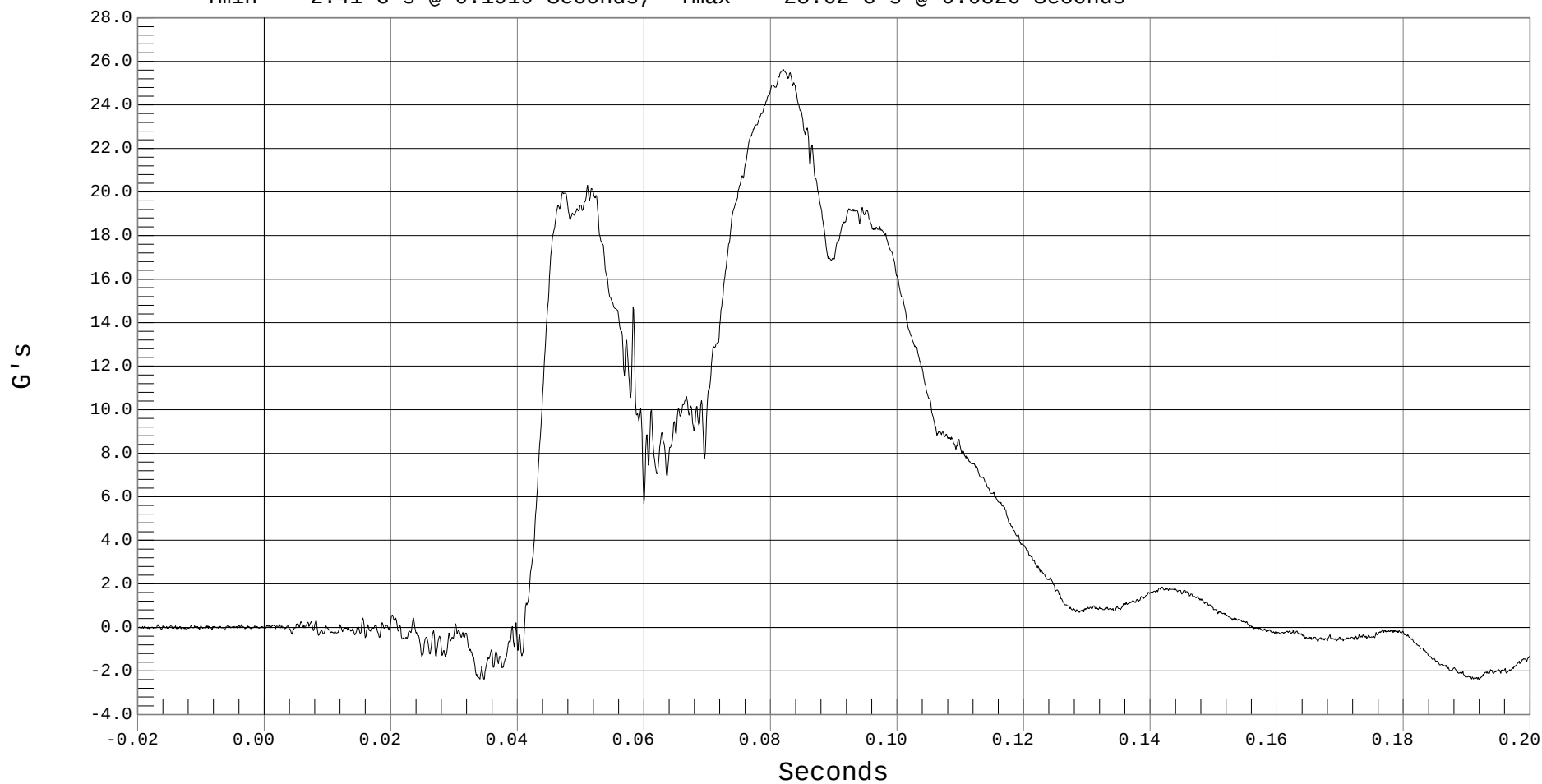
DRIVER HEAD FRONT Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD FRONT Y, B01102AT.A70

Ymin = -2.41 G's @ 0.1919 Seconds, Ymax = 25.62 G's @ 0.0820 Seconds





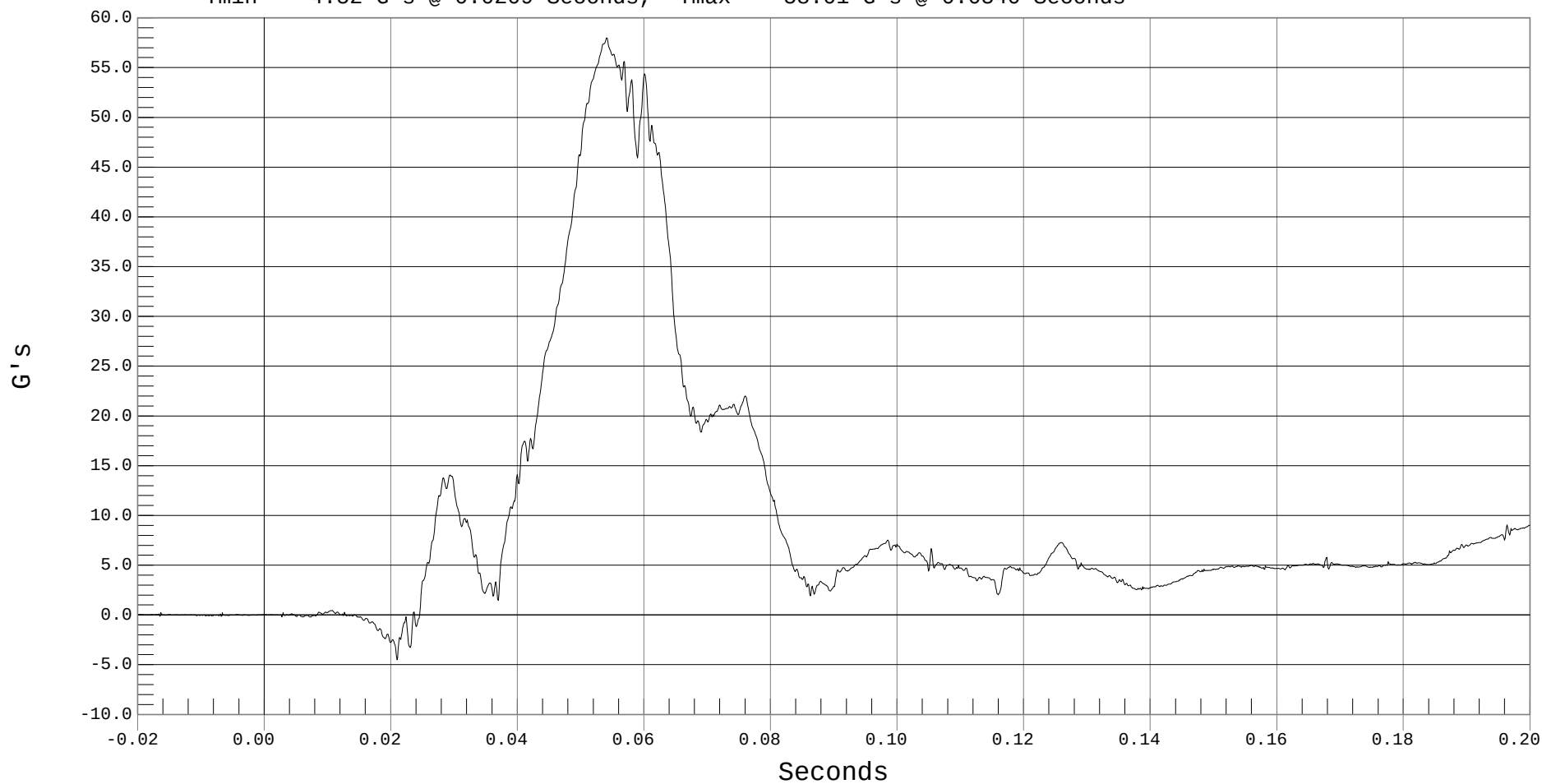
DRIVER HEAD FRONT Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

1 DRIVER HEAD FRONT Z, B01102AT.A71

Ymin = -4.52 G's @ 0.0209 Seconds, Ymax = 58.01 G's @ 0.0540 Seconds





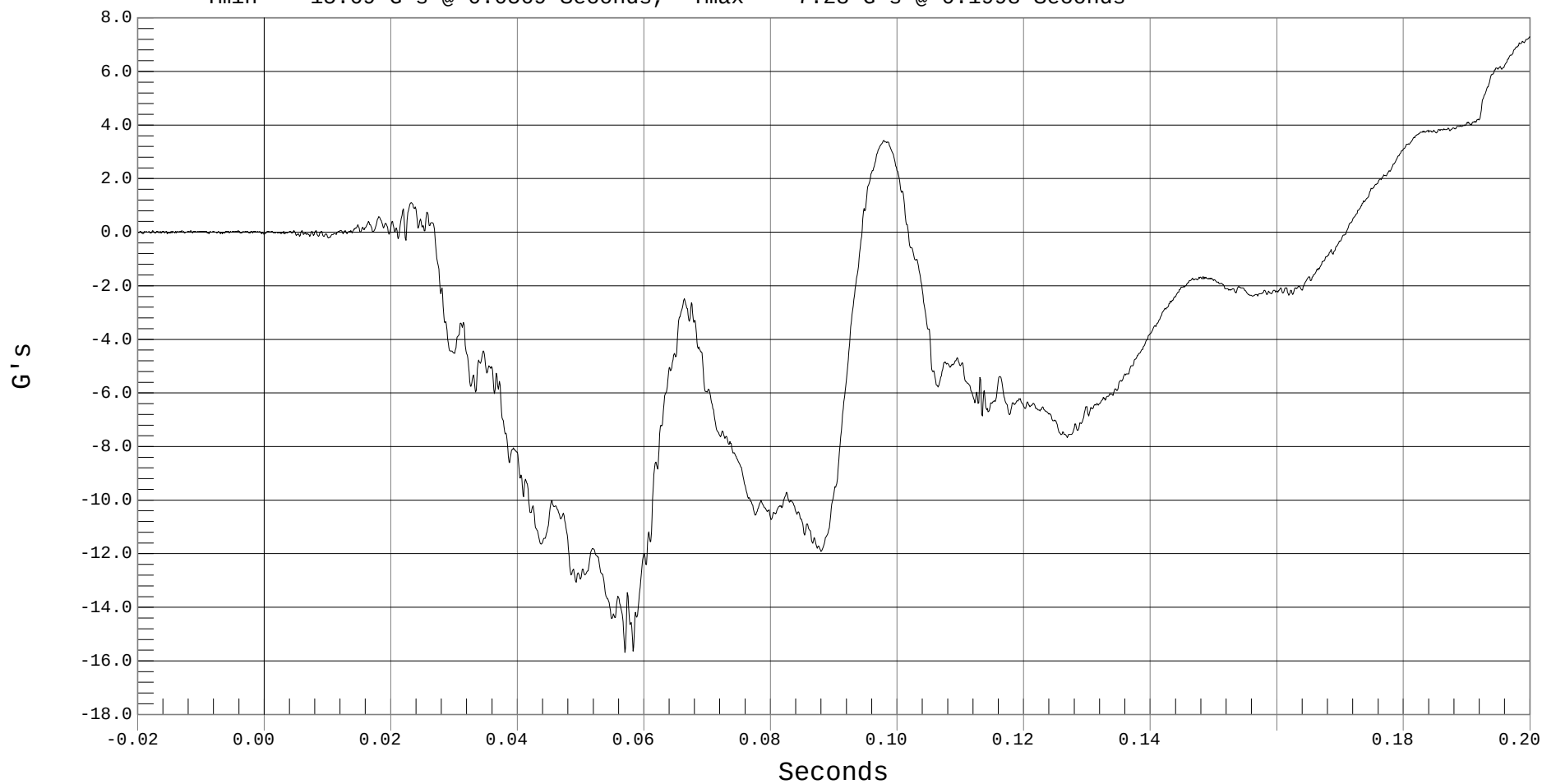
DRIVER HEAD LEFT X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD LEFT X, B01102AT.A72

Ymin = -15.69 G's @ 0.0569 Seconds, Ymax = 7.28 G's @ 0.1998 Seconds





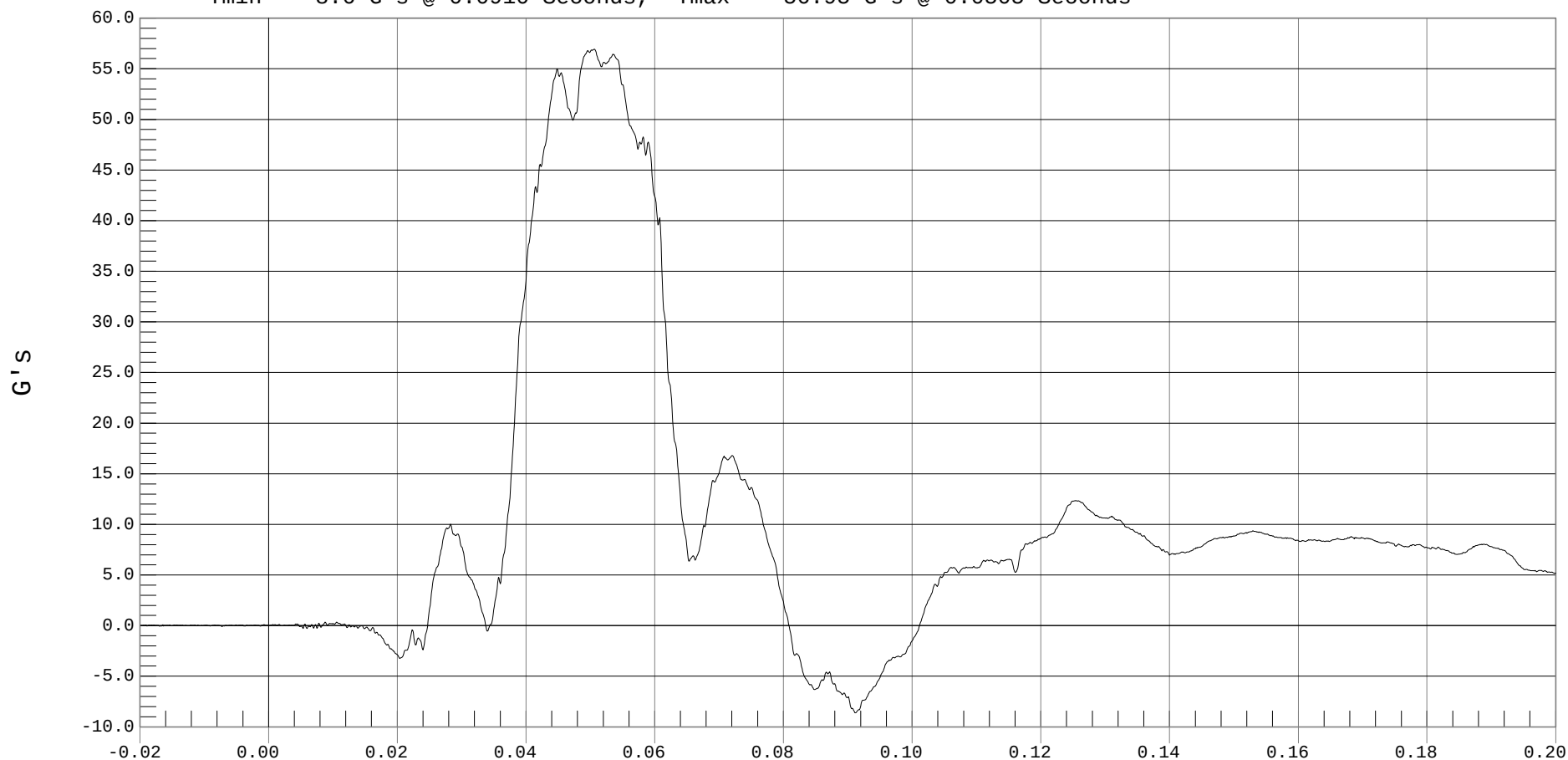
DRIVER HEAD LEFT Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD LEFT Z, B01102AT.A73

Ymin = -8.6 G's @ 0.0910 Seconds, Ymax = 56.95 G's @ 0.0505 Seconds





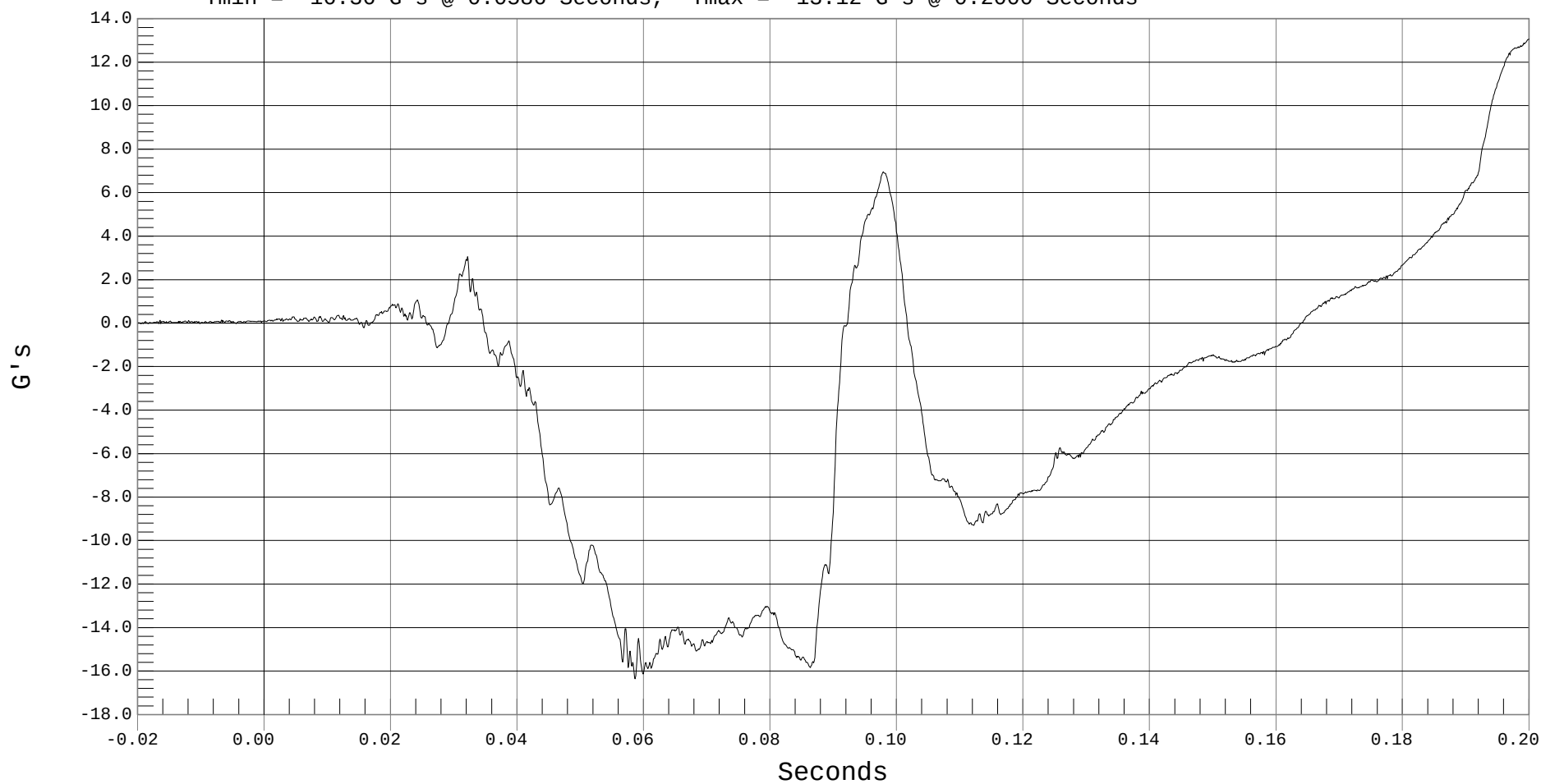
DRIVER HEAD TOP X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD TOP X, B01102AT.A74

Ymin = -16.36 G's @ 0.0586 Seconds, Ymax = 13.12 G's @ 0.2000 Seconds





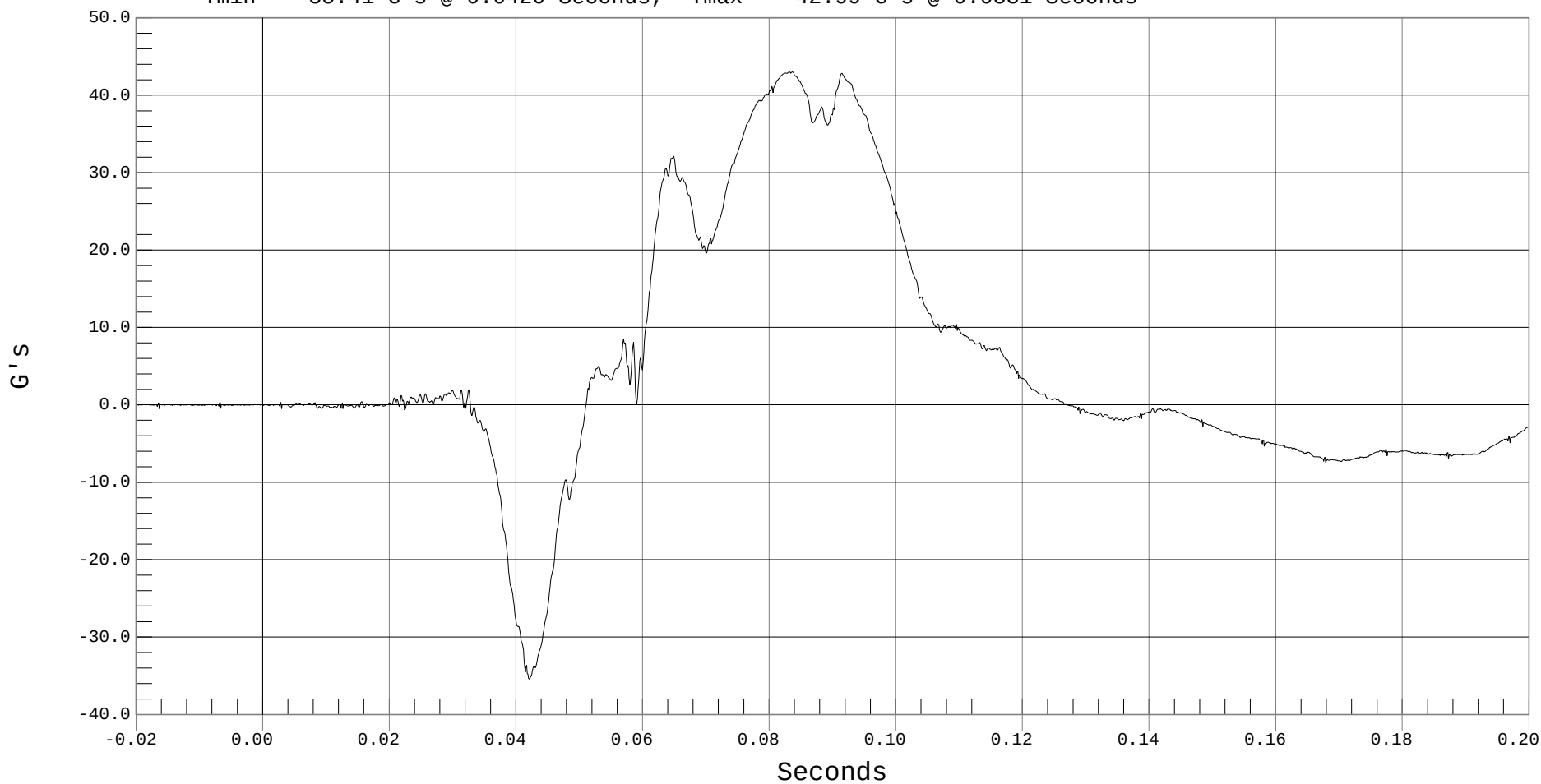
DRIVER HEAD TOP Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD TOP Y, B01102AT.A75

Ymin = -35.41 G's @ 0.0420 Seconds, Ymax = 42.99 G's @ 0.0831 Seconds





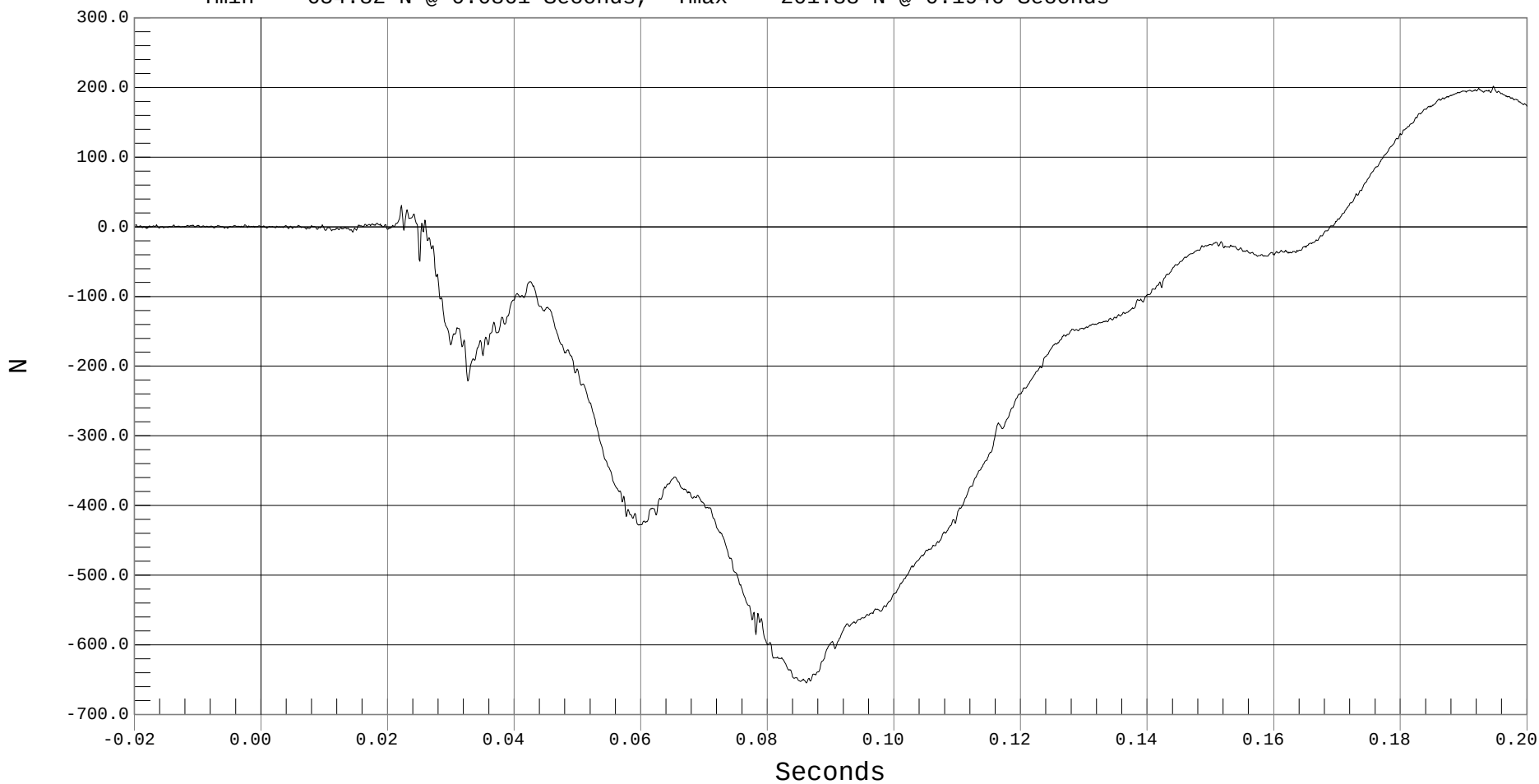
DRIVER UPPER NECK FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

1 DRIVER UPPER NECK FORCE X, B01102FT.F04

Ymin = -654.82 N @ 0.0861 Seconds, Ymax = 201.88 N @ 0.1946 Seconds





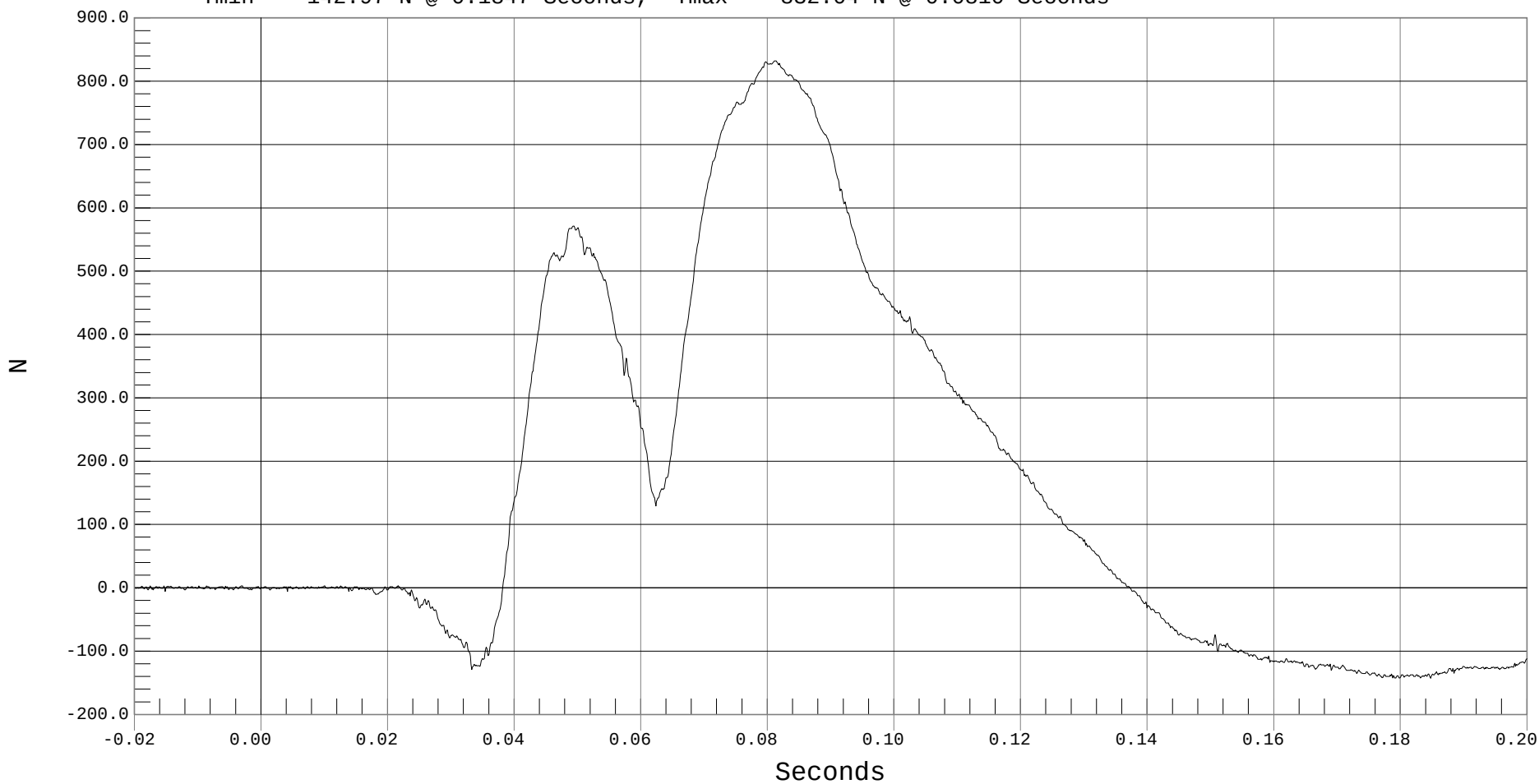
DRIVER UPPER NECK FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER UPPER NECK FORCE Y, B01102FT.F05

Ymin = -142.97 N @ 0.1847 Seconds, Ymax = 832.04 N @ 0.0810 Seconds





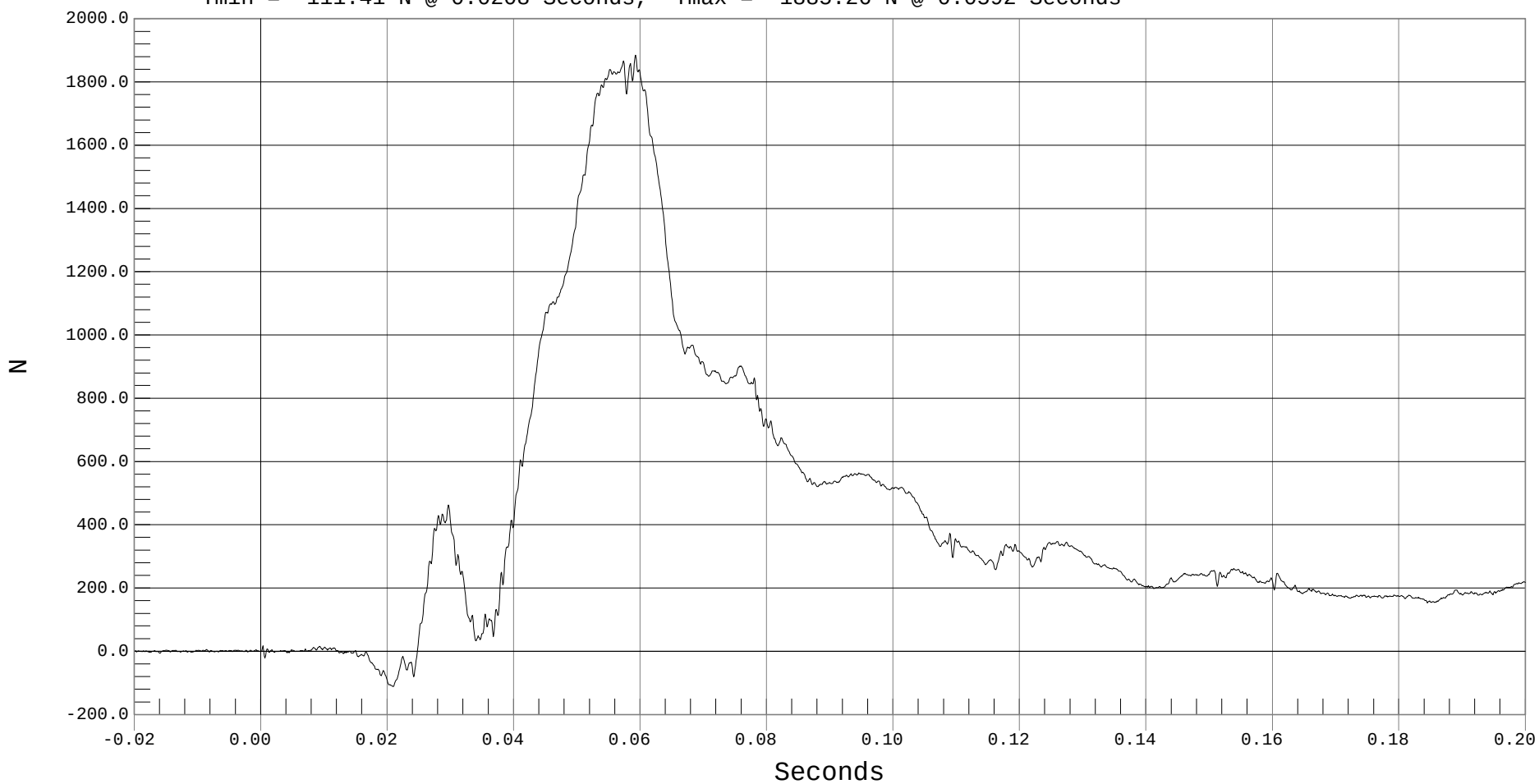
DRIVER UPPER NECK FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER UPPER NECK FORCE Z, B01102FT.F06

Ymin = -111.41 N @ 0.0208 Seconds, Ymax = 1885.26 N @ 0.0592 Seconds





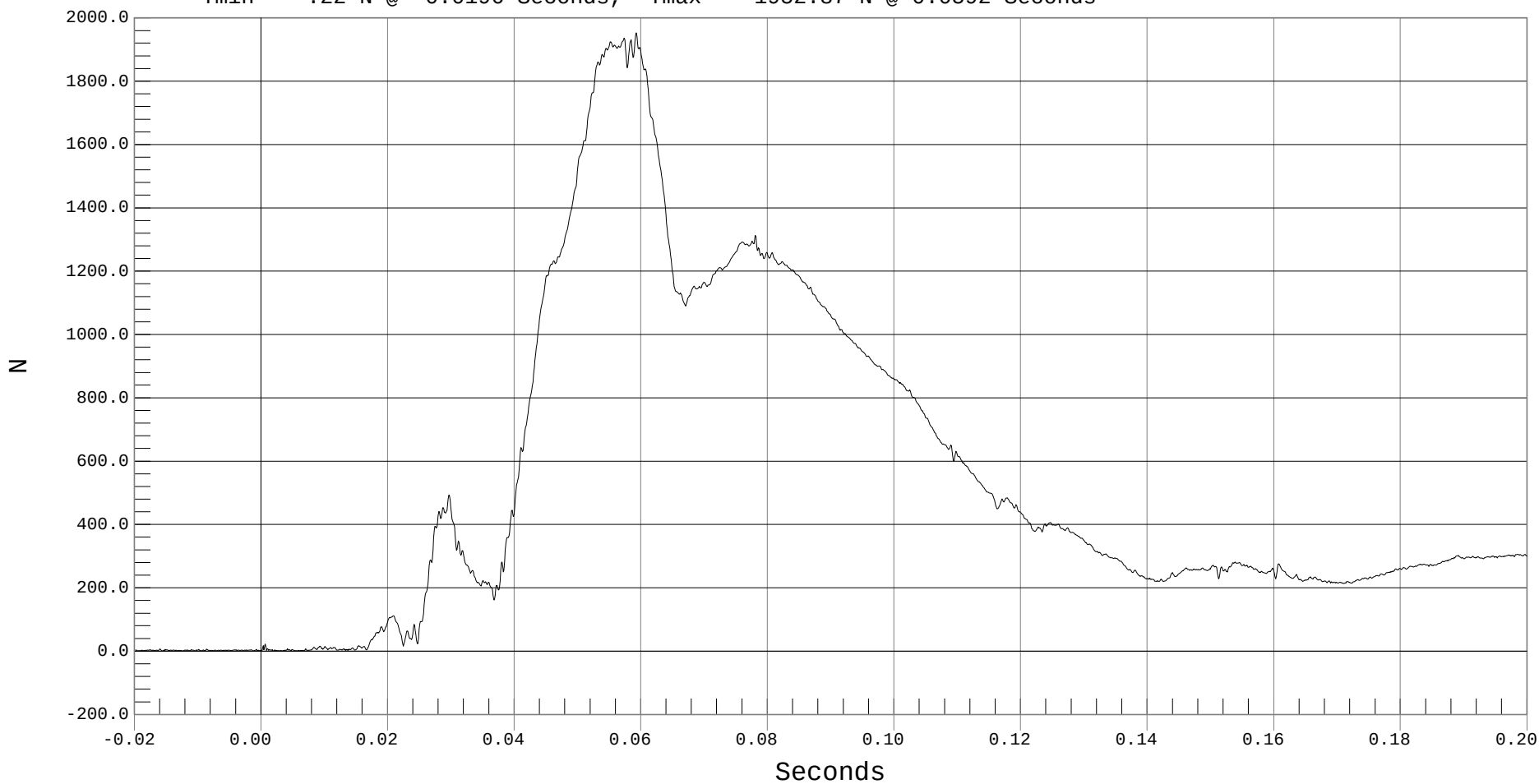
DRIVER UPPER NECK FORCE RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER UPPER NECK FORCE RESULTANT, B01102FV.F04

Ymin = .22 N @ -0.0196 Seconds, Ymax = 1952.87 N @ 0.0592 Seconds





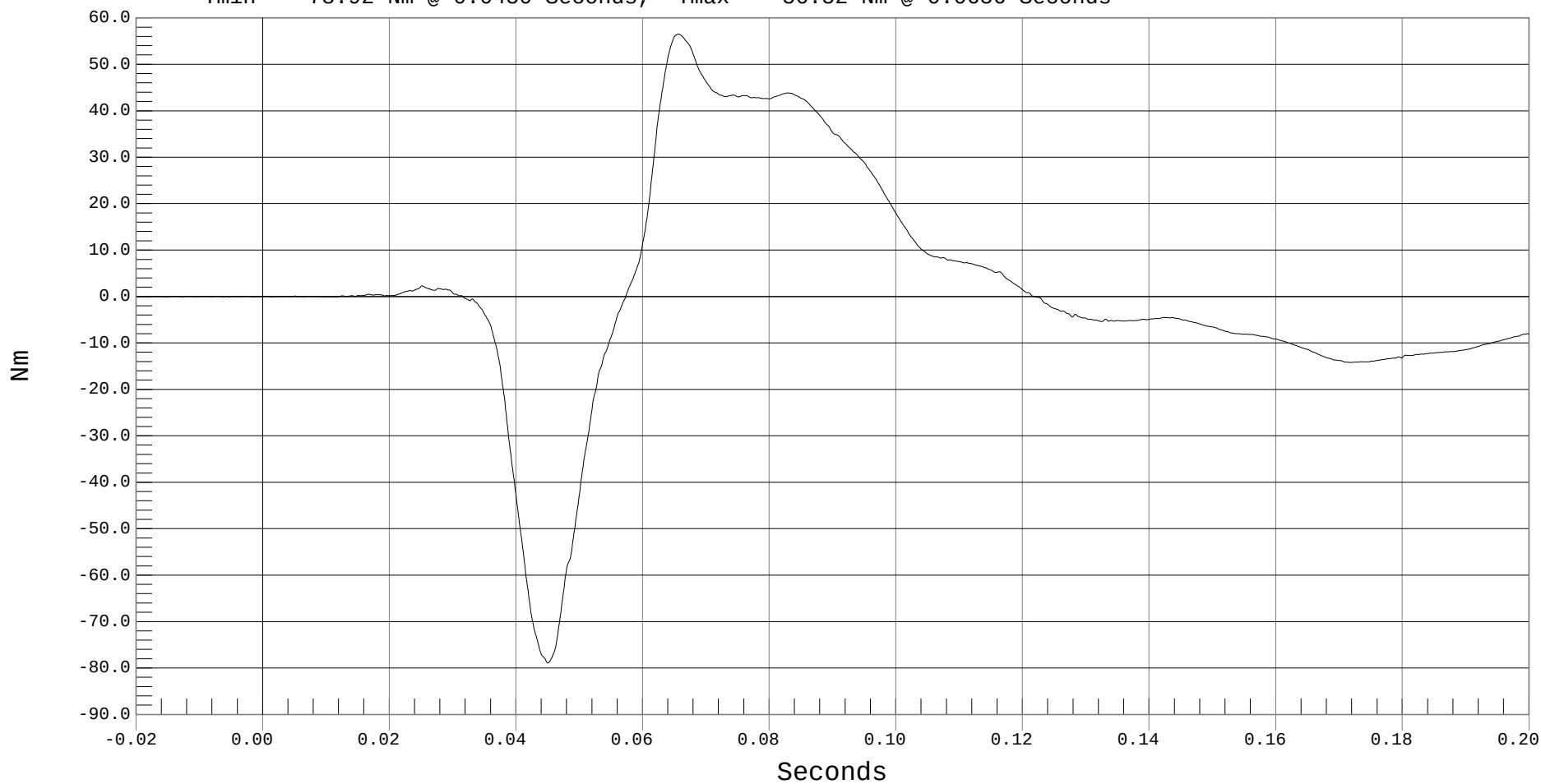
DRIVER UPPER NECK MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER UPPER NECK MOMENT X, B01102MF.M07

Ymin = -78.92 Nm @ 0.0450 Seconds, Ymax = 56.52 Nm @ 0.0656 Seconds





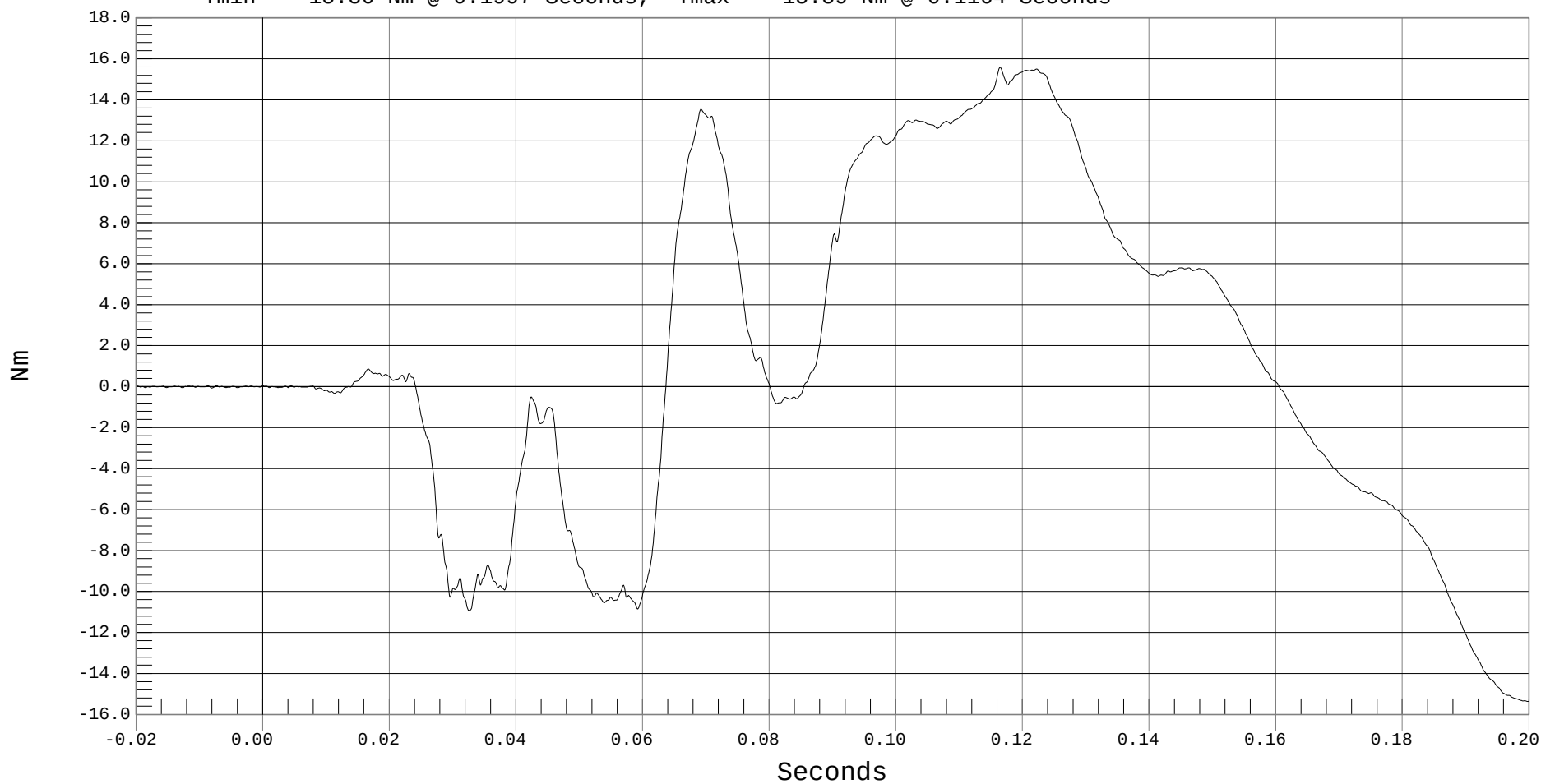
DRIVER UPPER NECK MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER UPPER NECK MOMENT Y, B01102MF.M08

Ymin = -15.36 Nm @ 0.1997 Seconds, Ymax = 15.59 Nm @ 0.1164 Seconds





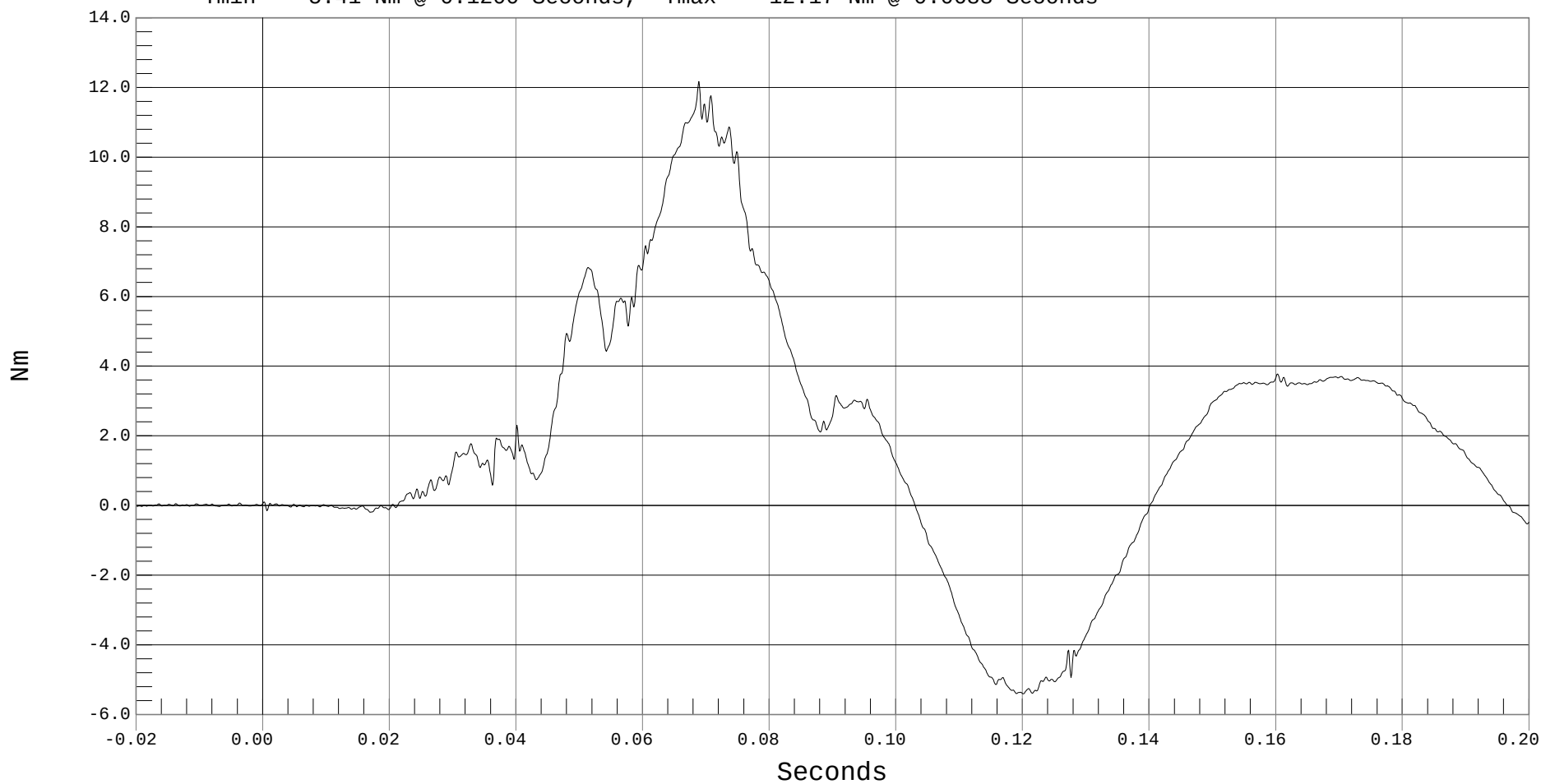
DRIVER UPPER NECK MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER UPPER NECK MOMENT Z, B01102MF.M09

Ymin = -5.41 Nm @ 0.1200 Seconds, Ymax = 12.17 Nm @ 0.0688 Seconds





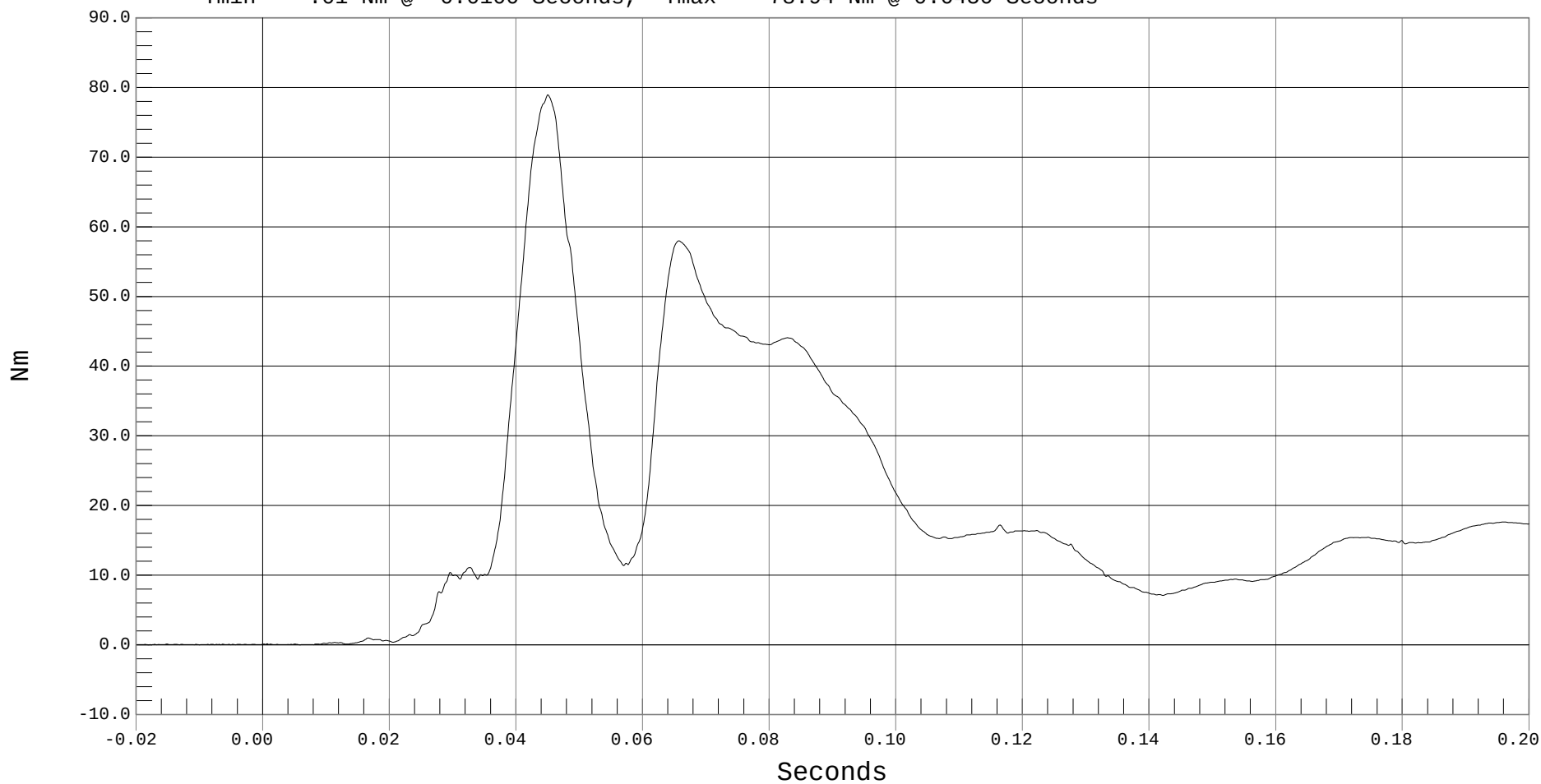
DRIVER UPPER NECK MOMENT RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER UPPER NECK MOMENT RESULTANT, B01102MV.M07

Ymin = .01 Nm @ -0.0100 Seconds, Ymax = 78.94 Nm @ 0.0450 Seconds





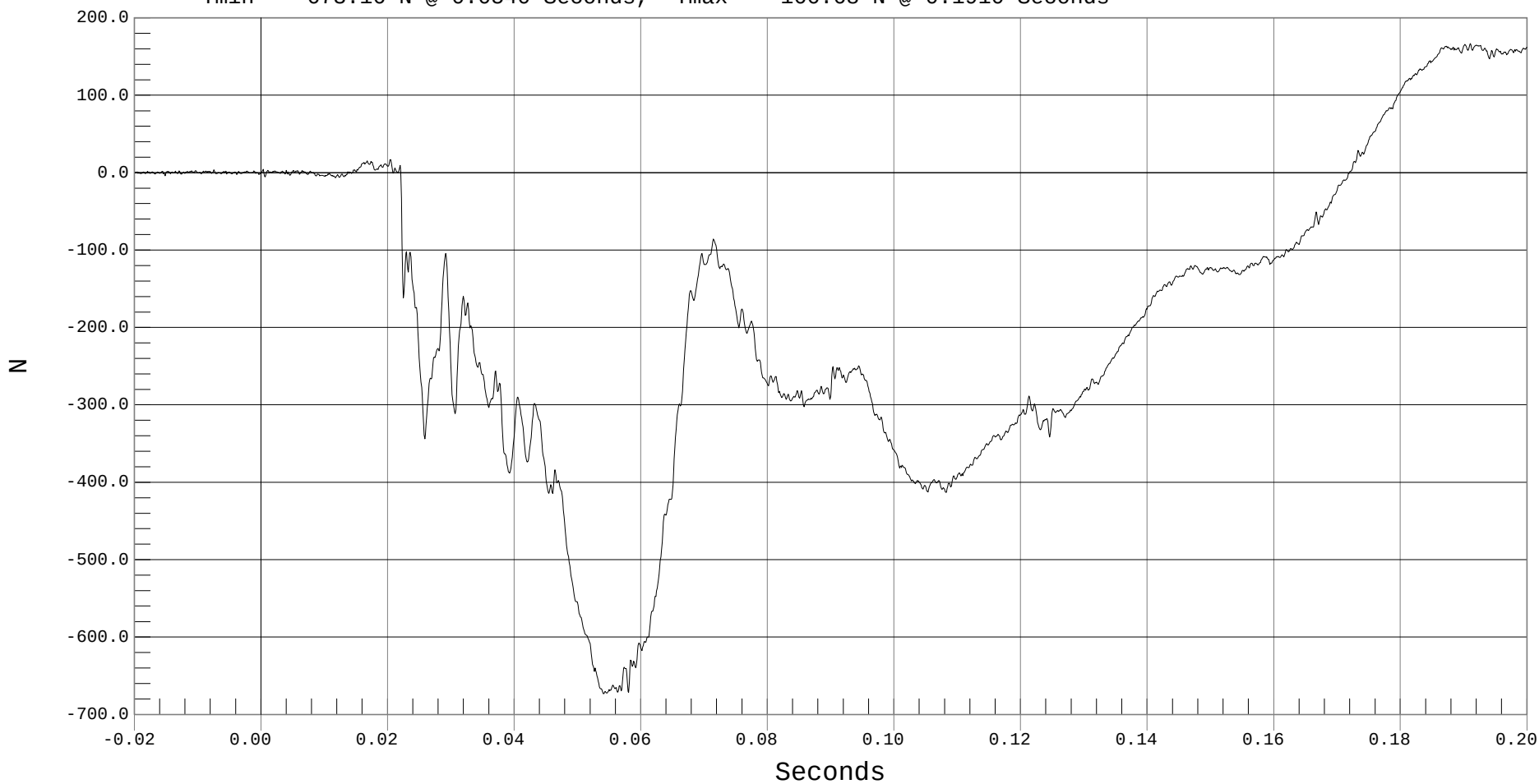
DRIVER LOWER NECK FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

1 DRIVER LOWER NECK FORCE X, B01102FT.F10

Ymin = -673.16 N @ 0.0540 Seconds, Ymax = 166.68 N @ 0.1910 Seconds





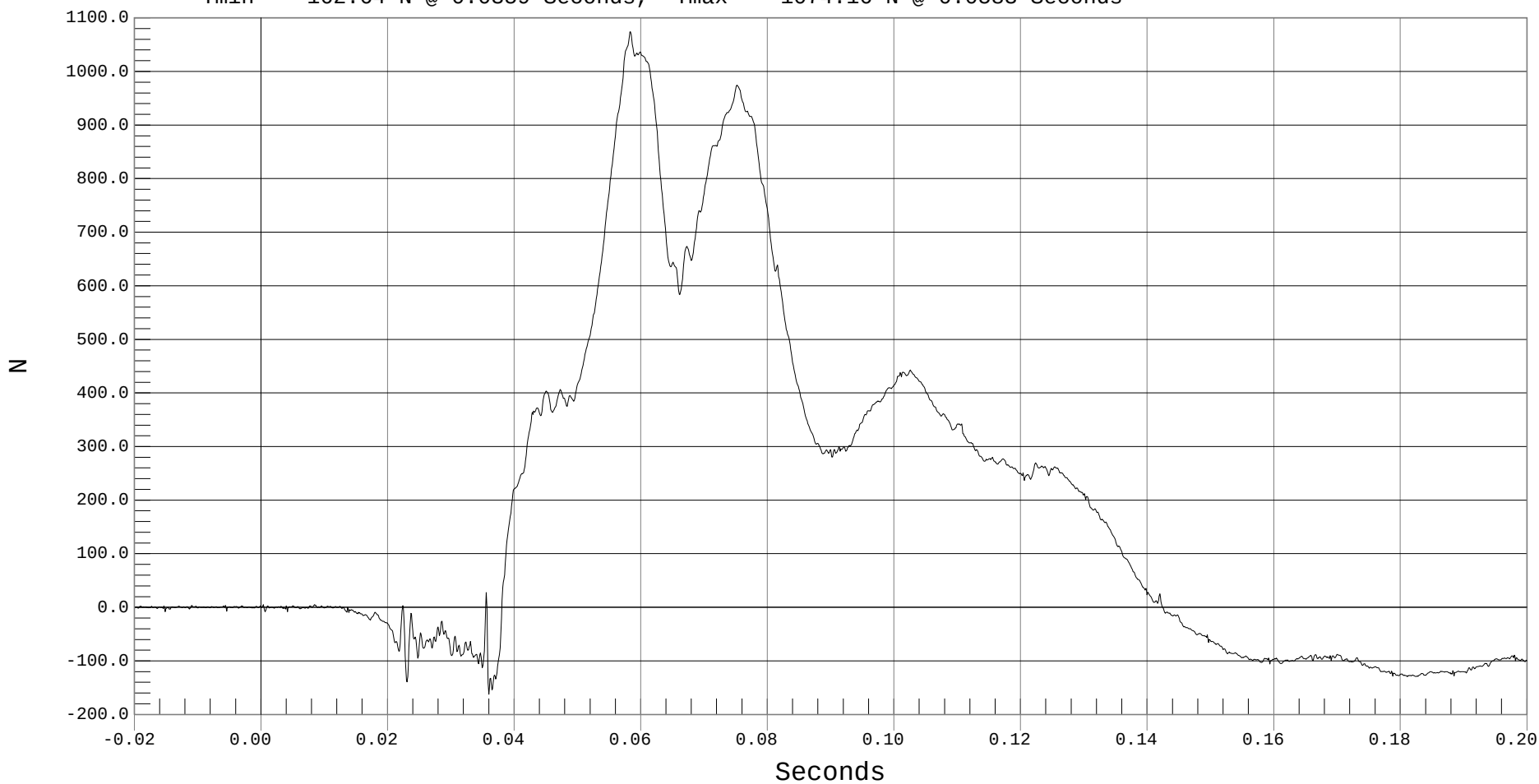
DRIVER LOWER NECK FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER LOWER NECK FORCE Y, B01102FT.F11

Ymin = -162.64 N @ 0.0359 Seconds, Ymax = 1074.16 N @ 0.0583 Seconds





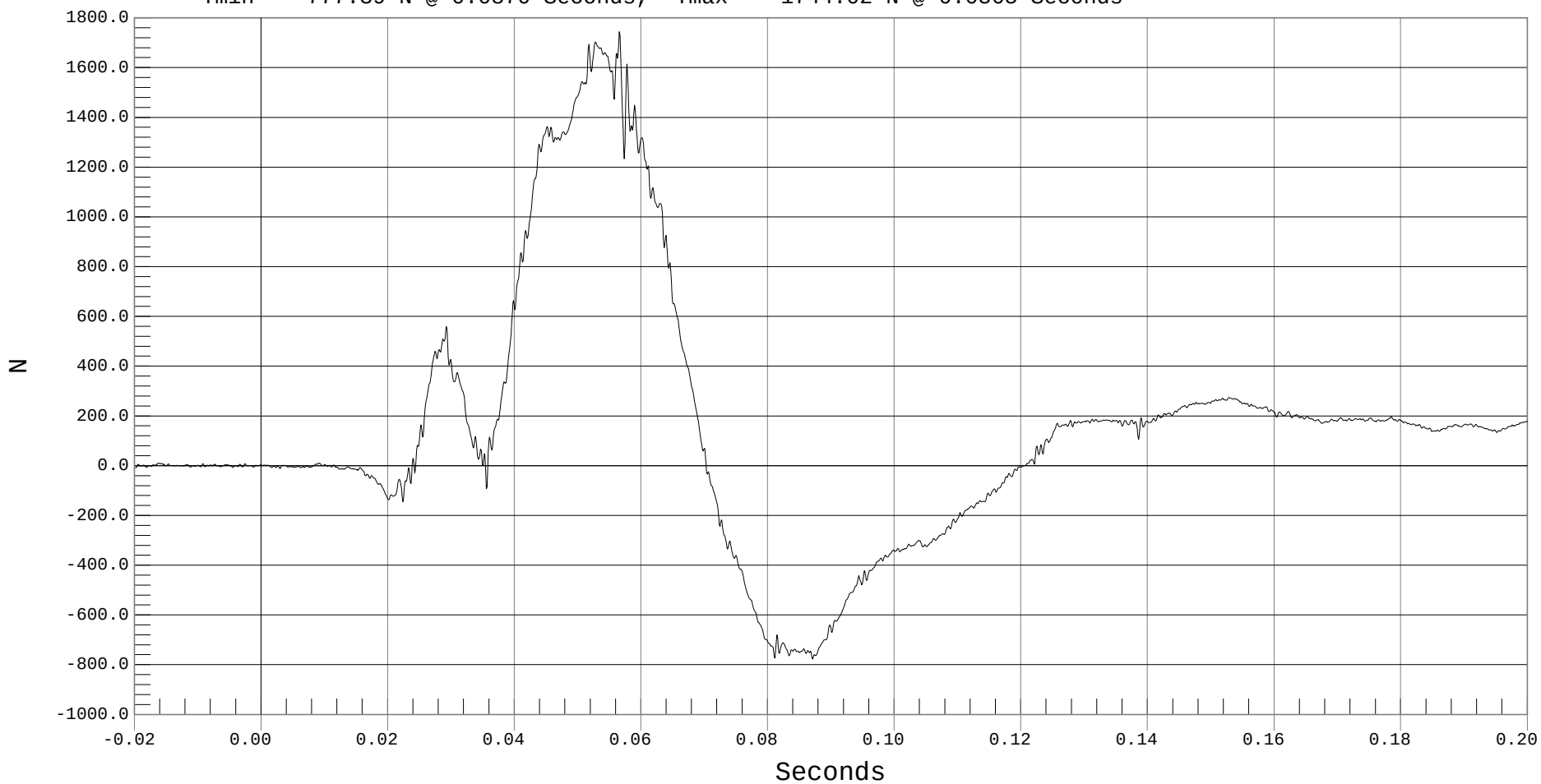
DRIVER LOWER NECK FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER LOWER NECK FORCE Z, B01102FT.F12

Ymin = -777.39 N @ 0.0870 Seconds, Ymax = 1744.02 N @ 0.0565 Seconds





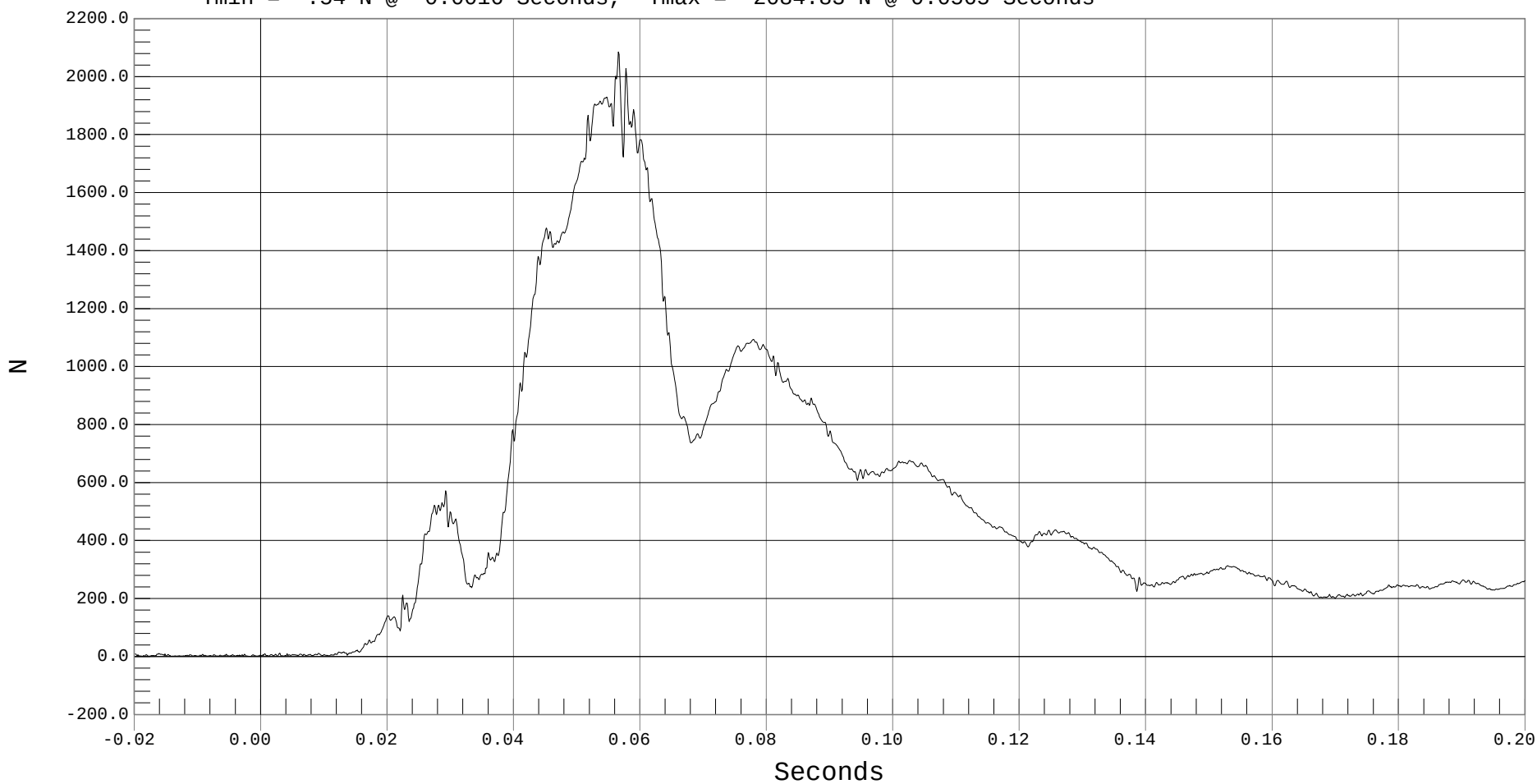
DRIVER LOWER NECK FORCE RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER LOWER NECK FORCE RESULTANT, B01102FV.F10

Ymin = .54 N @ -0.0016 Seconds, Ymax = 2084.83 N @ 0.0565 Seconds





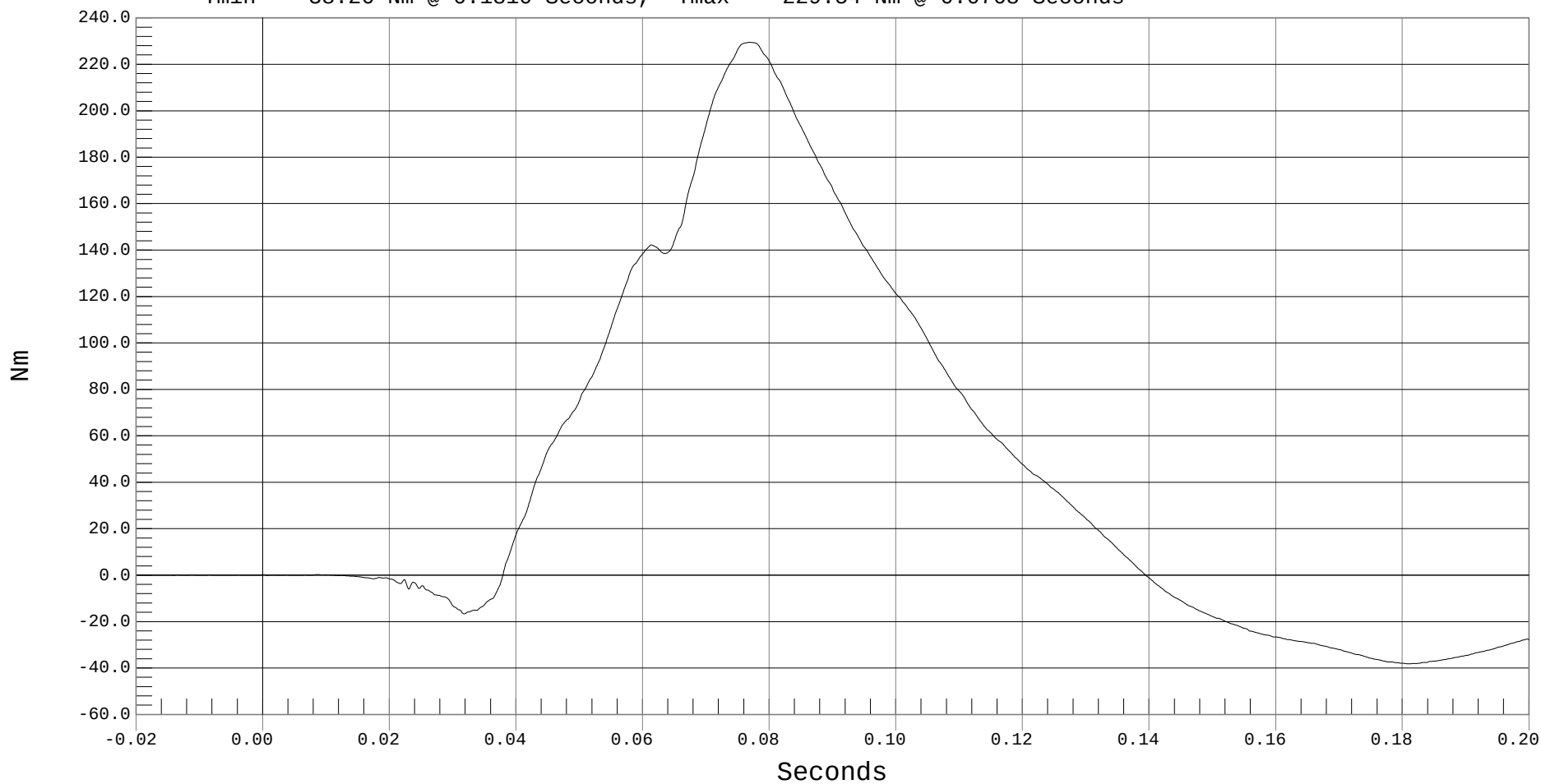
DRIVER LOWER NECK MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER LOWER NECK MOMENT X, B01102MF.M13

Ymin = -38.26 Nm @ 0.1810 Seconds, Ymax = 229.54 Nm @ 0.0768 Seconds





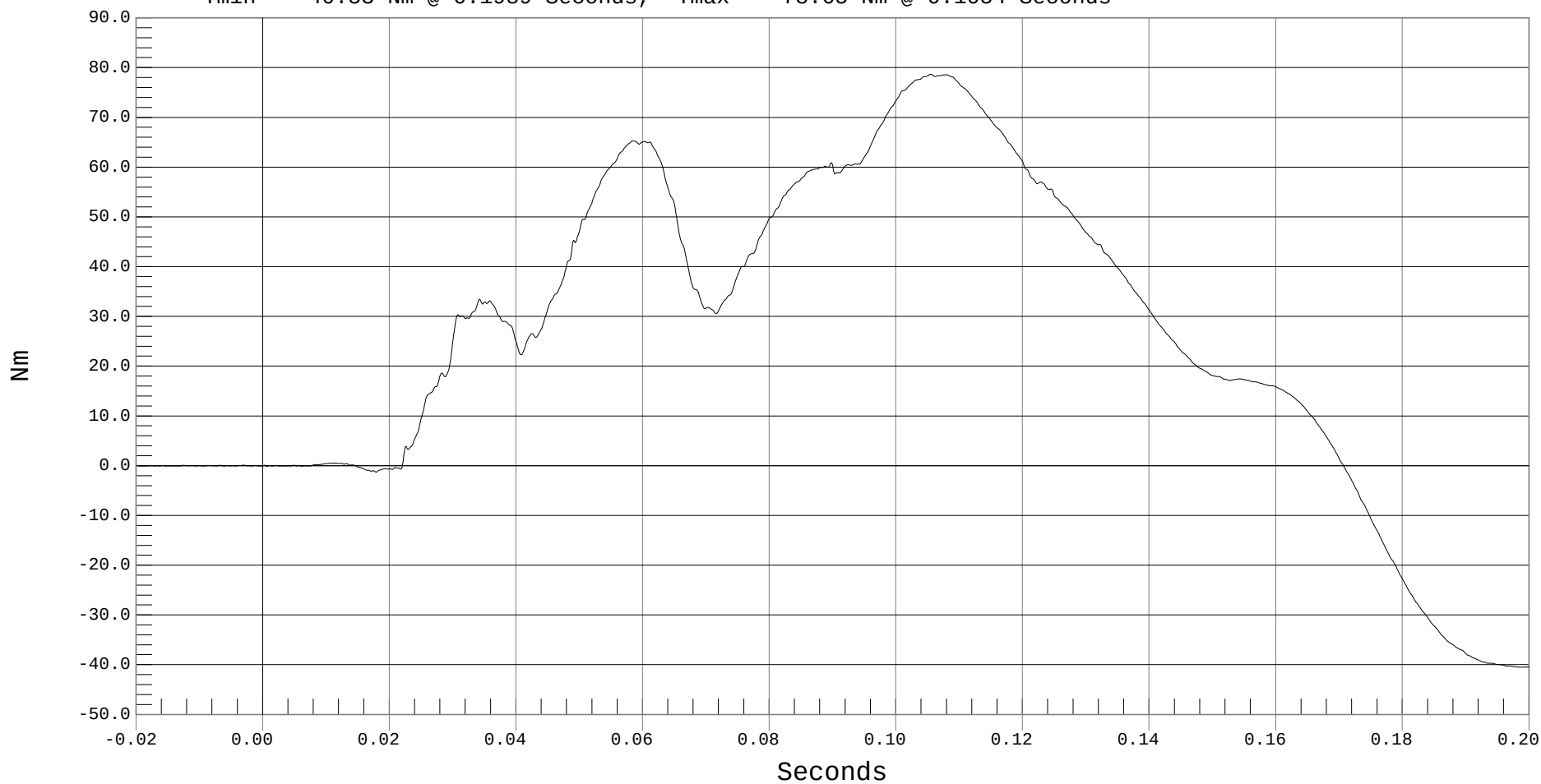
DRIVER LOWER NECK MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER LOWER NECK MOMENT Y, B01102MF.M14

Ymin = -40.53 Nm @ 0.1989 Seconds, Ymax = 78.65 Nm @ 0.1054 Seconds





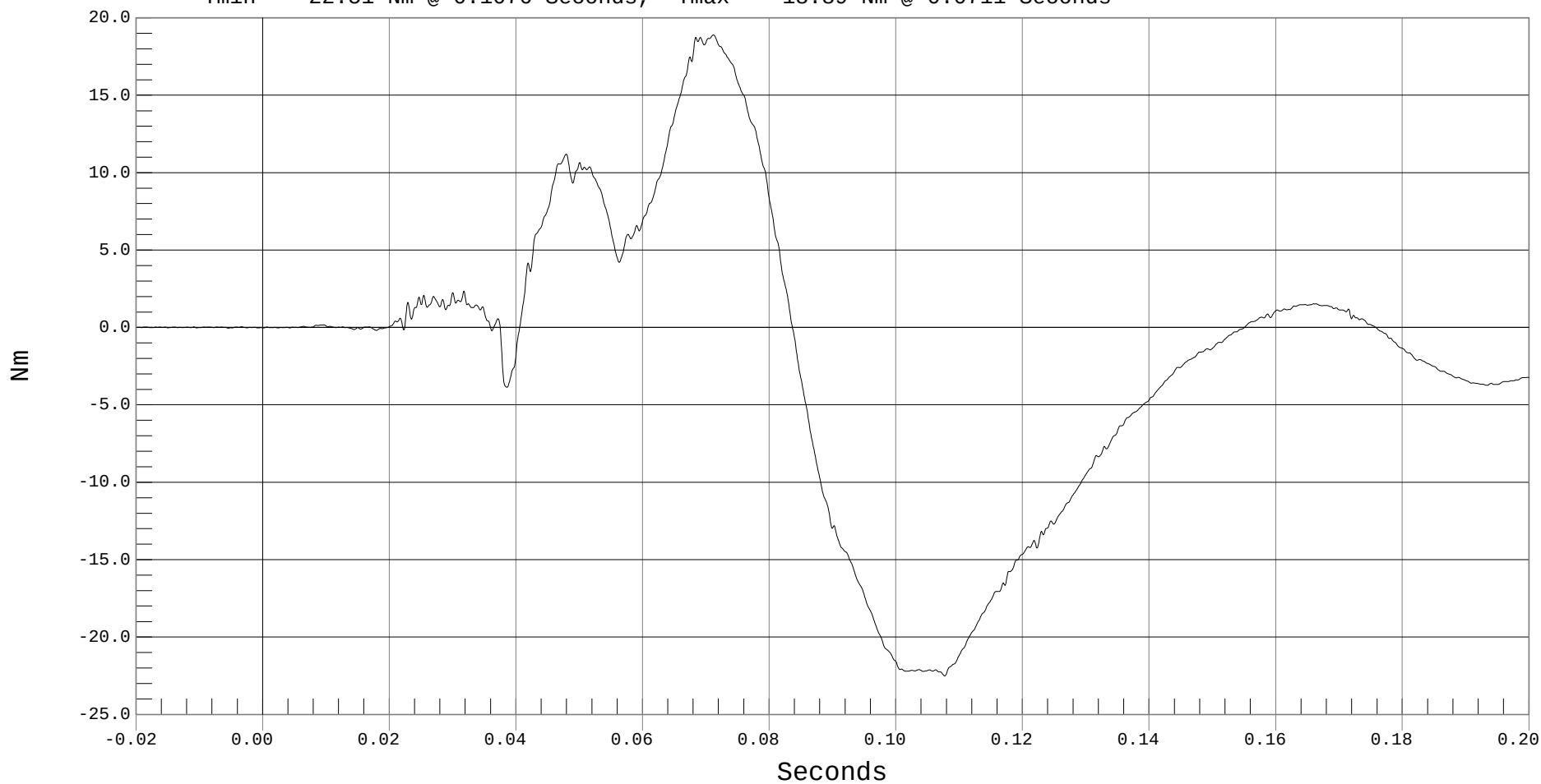
DRIVER LOWER NECK MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER LOWER NECK MOMENT Z, B01102MF.M15

Ymin = -22.51 Nm @ 0.1076 Seconds, Ymax = 18.89 Nm @ 0.0711 Seconds





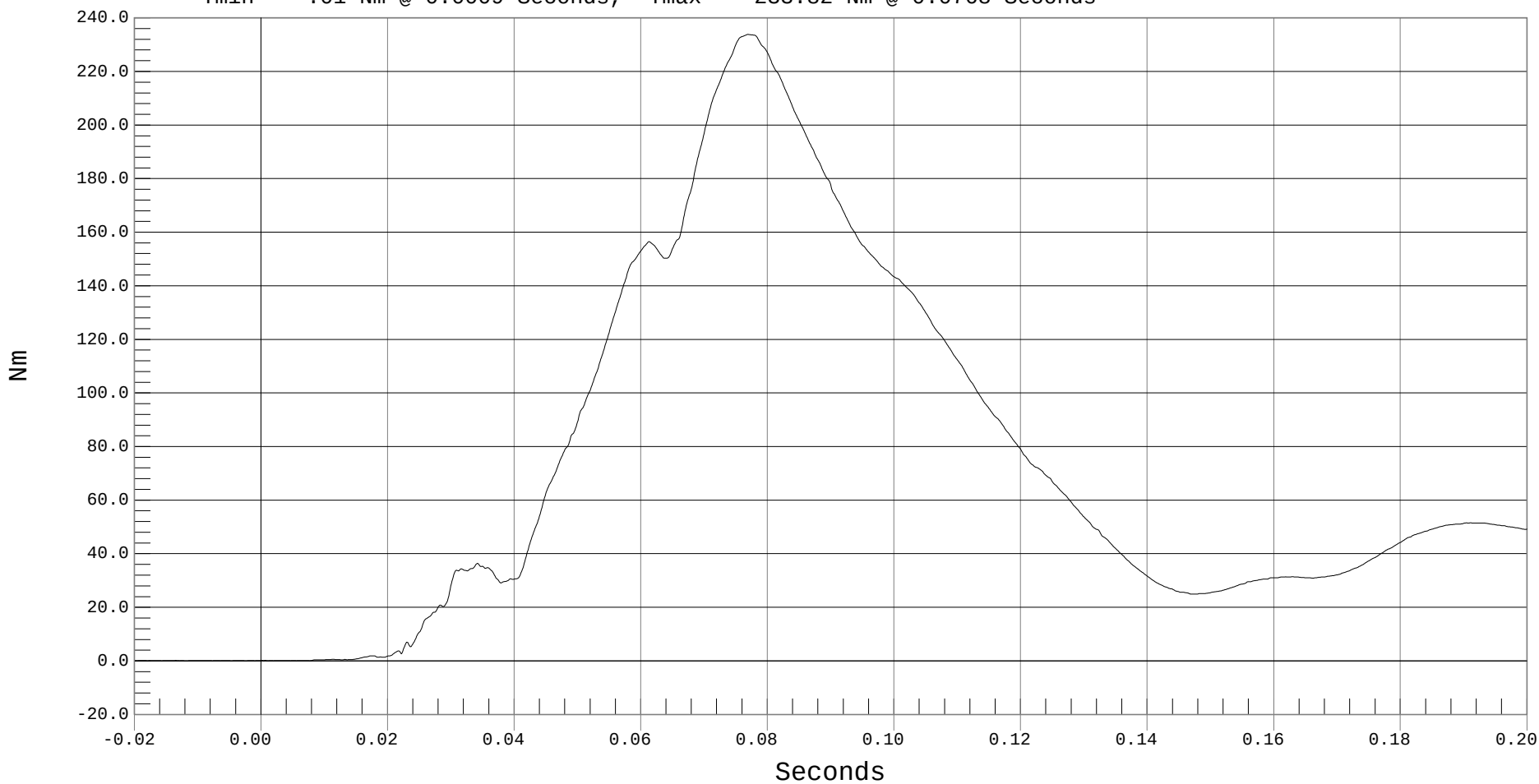
DRIVER LOWER NECK MOMENT RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER LOWER NECK MOMENT RESULTANT, B01102MV.M13

Ymin = .01 Nm @ 0.0009 Seconds, Ymax = 233.82 Nm @ 0.0768 Seconds





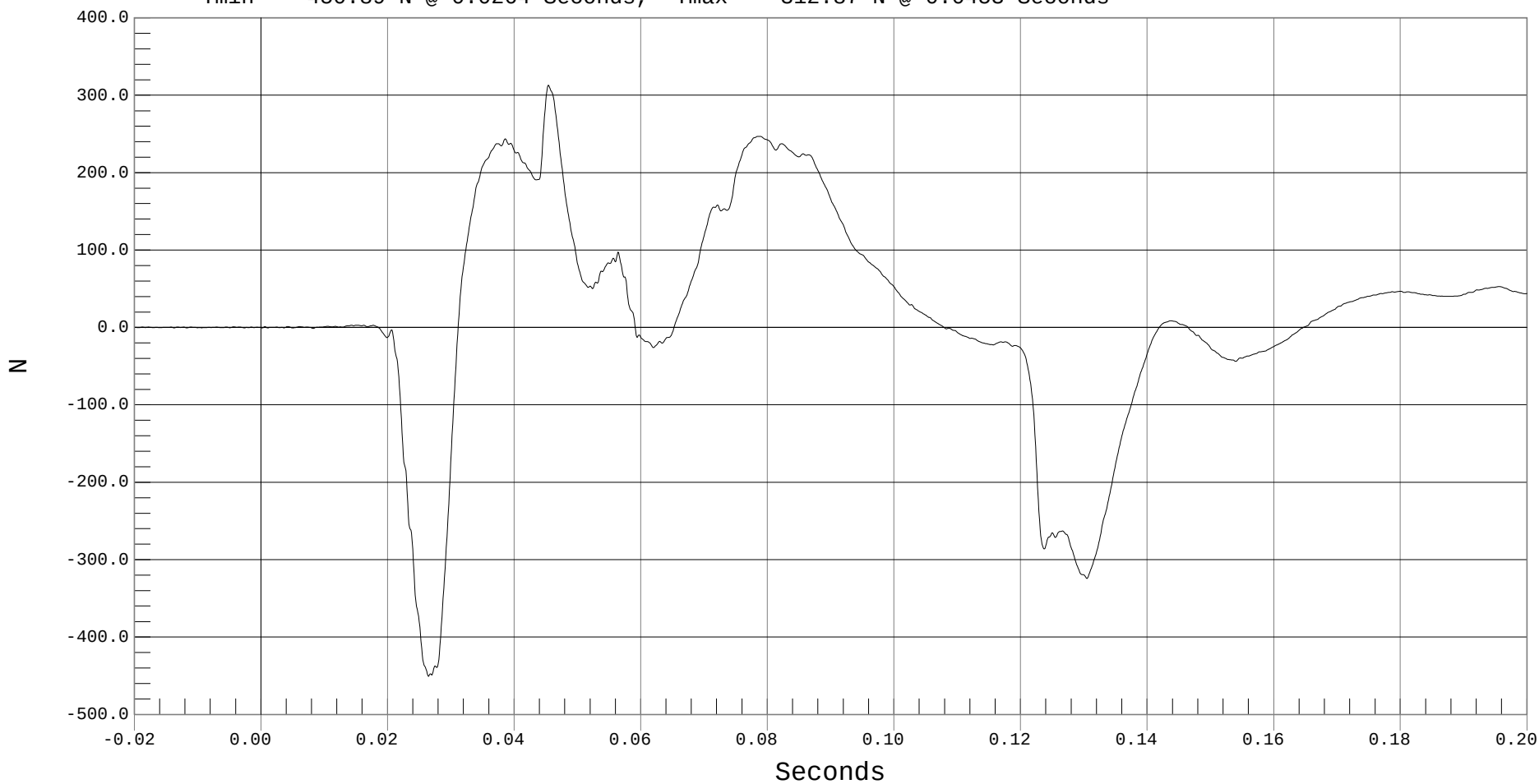
DRIVER SHOULDER FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER SHOULDER FORCE X, B01102FF.F16

Ymin = -450.89 N @ 0.0264 Seconds, Ymax = 312.87 N @ 0.0453 Seconds





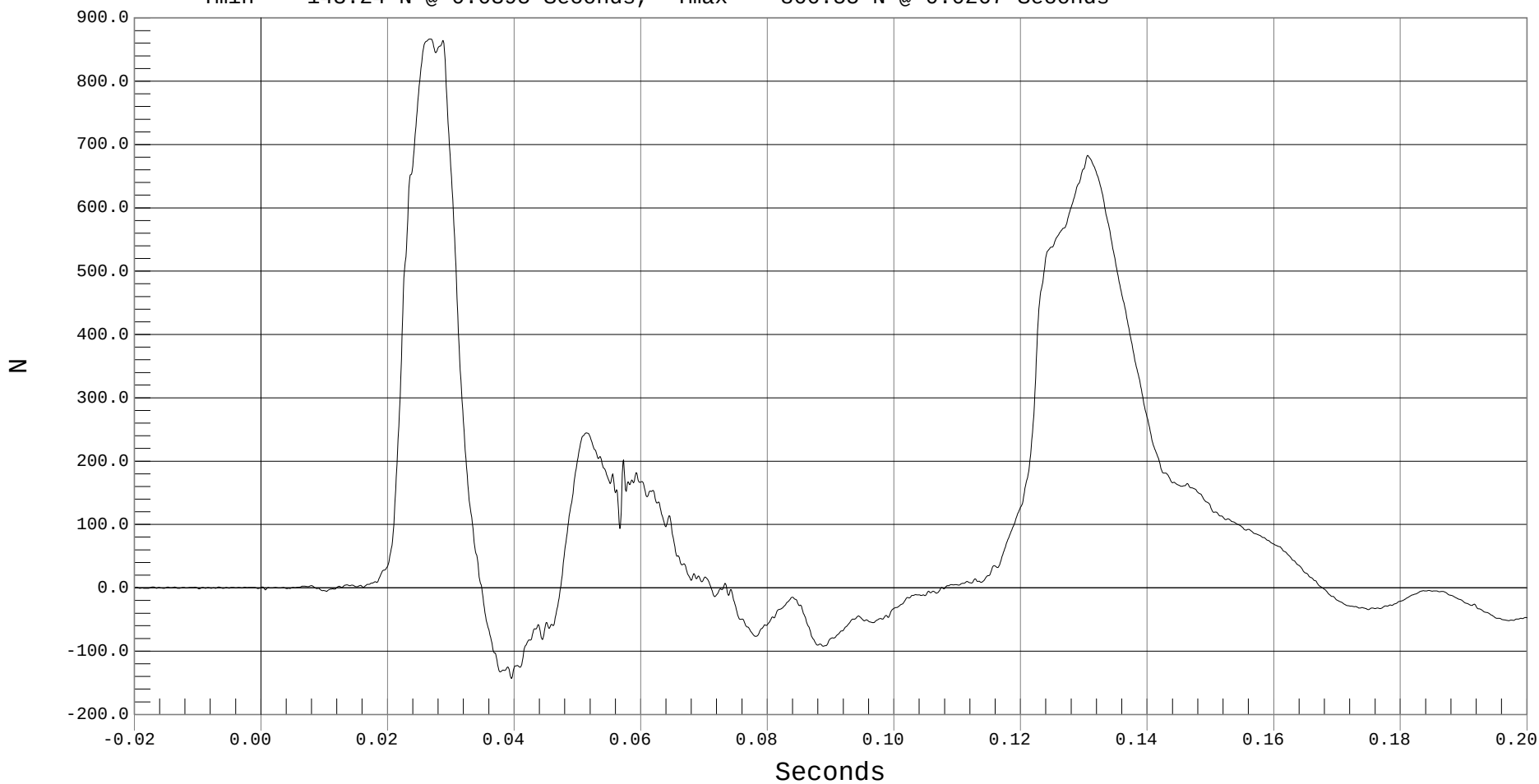
DRIVER SHOULDER FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER SHOULDER FORCE Y, B01102FF.F17

Ymin = -143.24 N @ 0.0395 Seconds, Ymax = 866.55 N @ 0.0267 Seconds





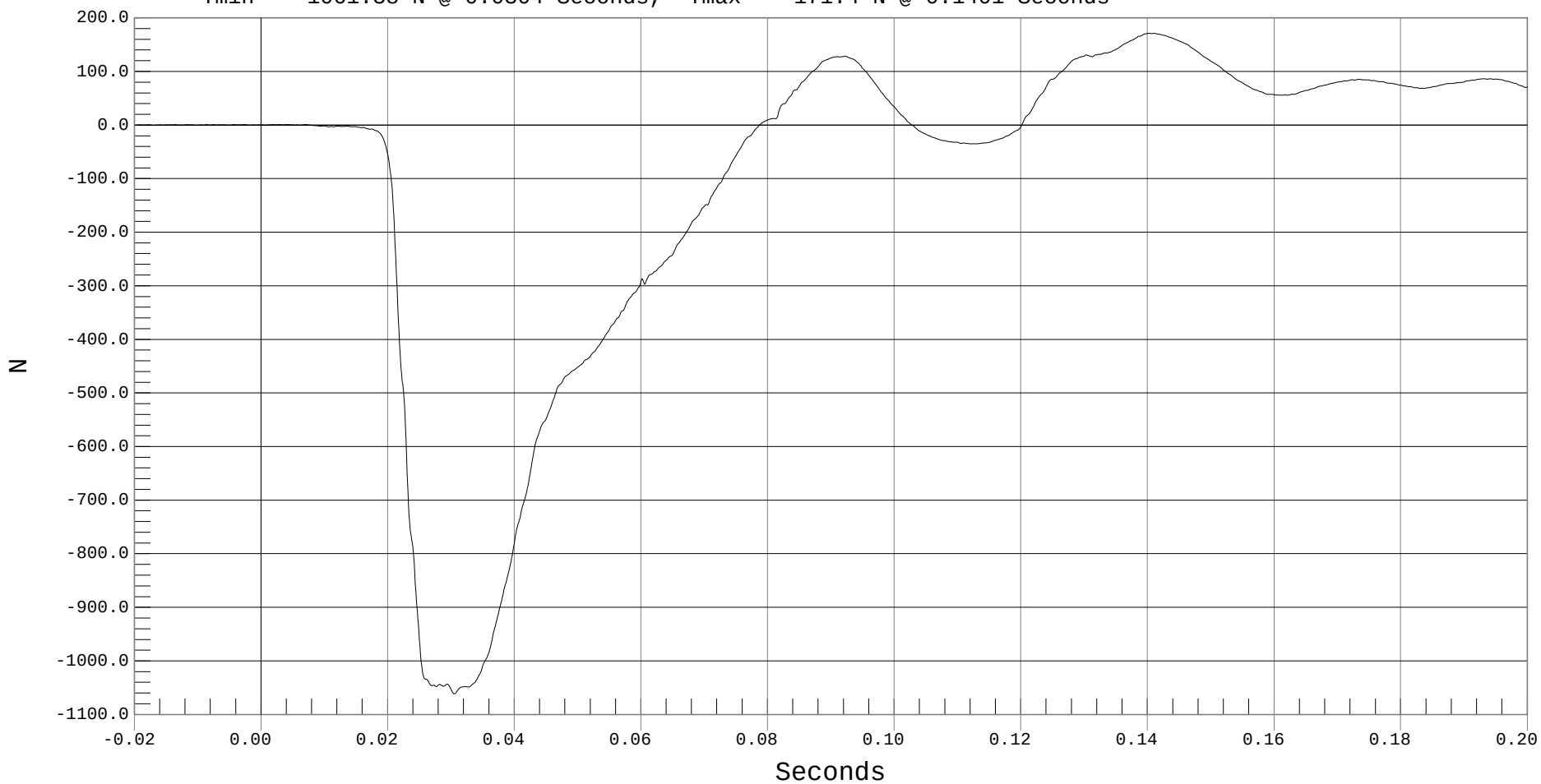
DRIVER SHOULDER FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER SHOULDER FORCE Z, B01102FF.F18

Ymin = -1061.38 N @ 0.0304 Seconds, Ymax = 171.4 N @ 0.1401 Seconds





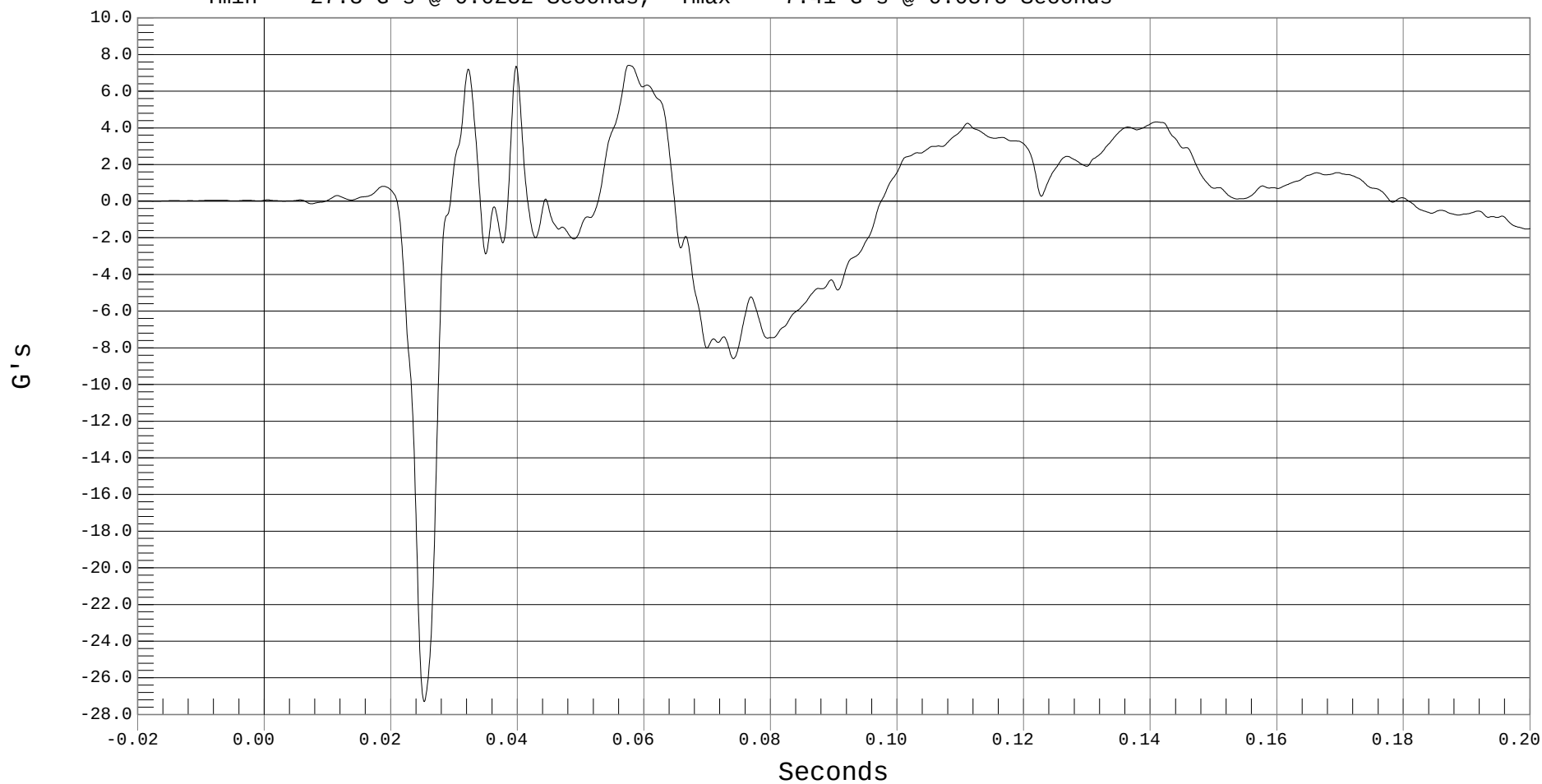
DRIVER UPPER SPINE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

1 DRIVER UPPER SPINE X, B01102AF.A20

Ymin = -27.3 G's @ 0.0252 Seconds, Ymax = 7.41 G's @ 0.0575 Seconds





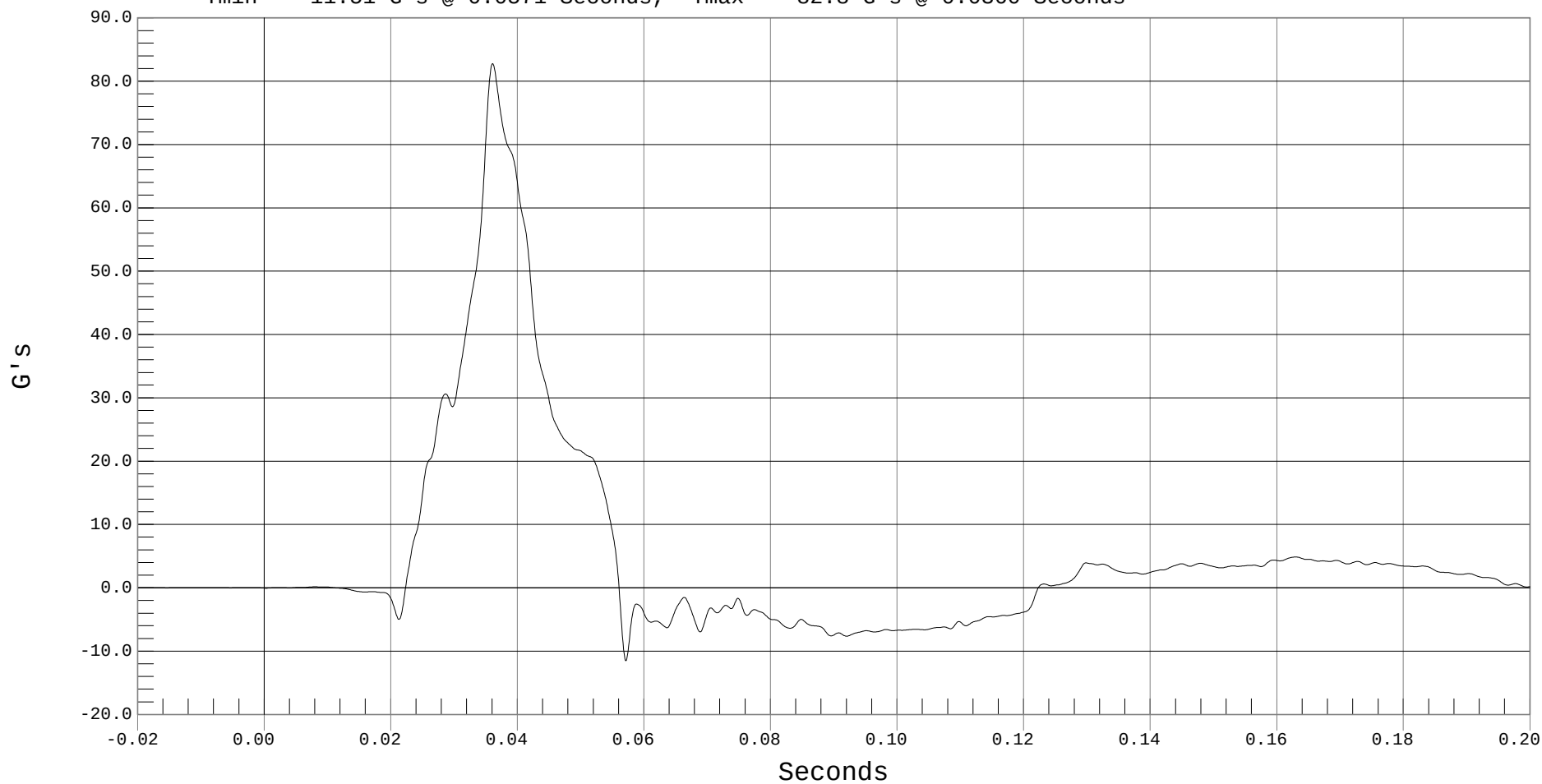
DRIVER UPPER SPINE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER UPPER SPINE Y, B01102AF.A21

Ymin = -11.51 G's @ 0.0571 Seconds, Ymax = 82.8 G's @ 0.0360 Seconds





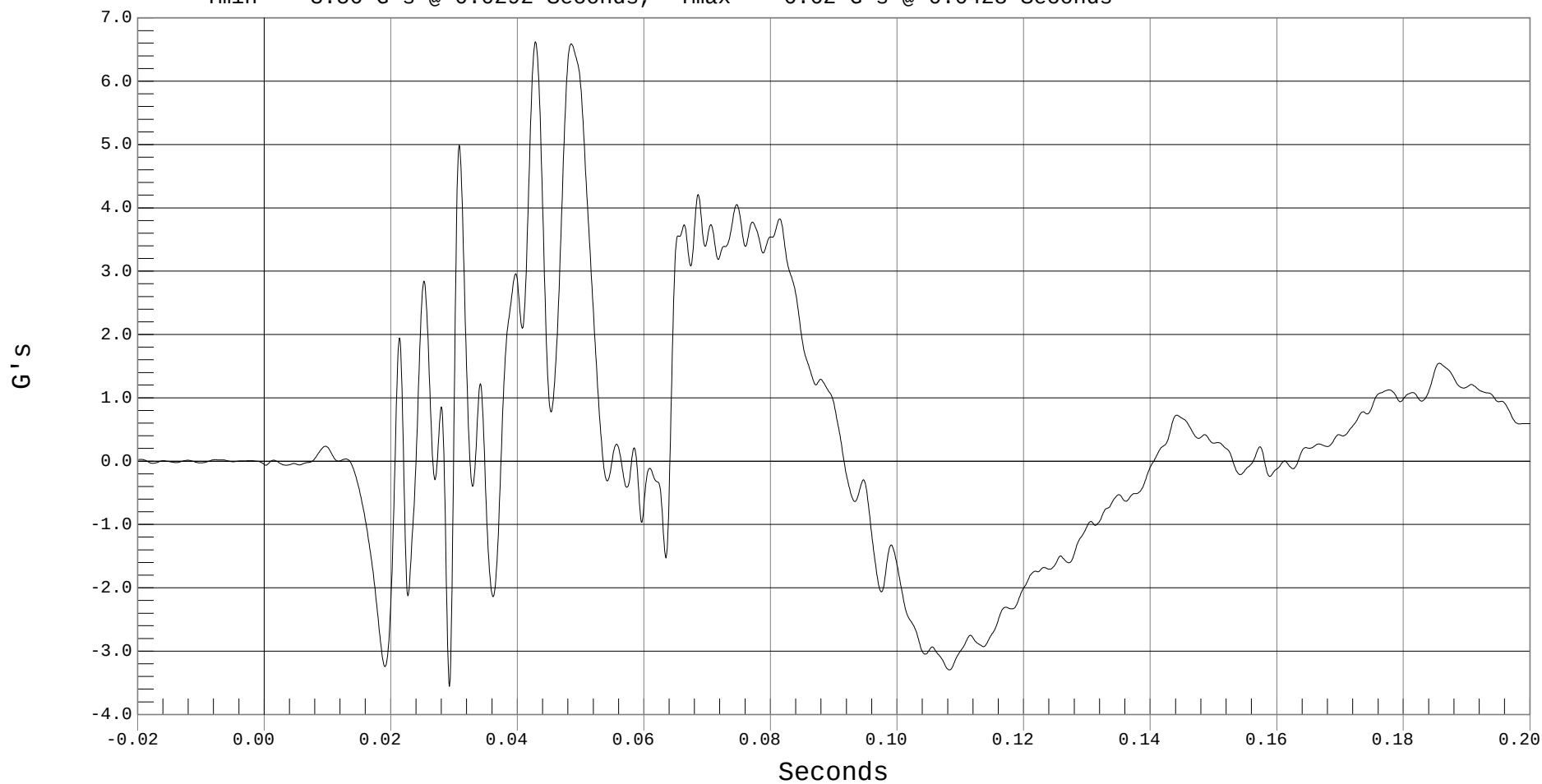
DRIVER UPPER SPINE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

1 DRIVER UPPER SPINE Z, B01102AF.A22

Ymin = -3.56 G's @ 0.0292 Seconds, Ymax = 6.62 G's @ 0.0428 Seconds





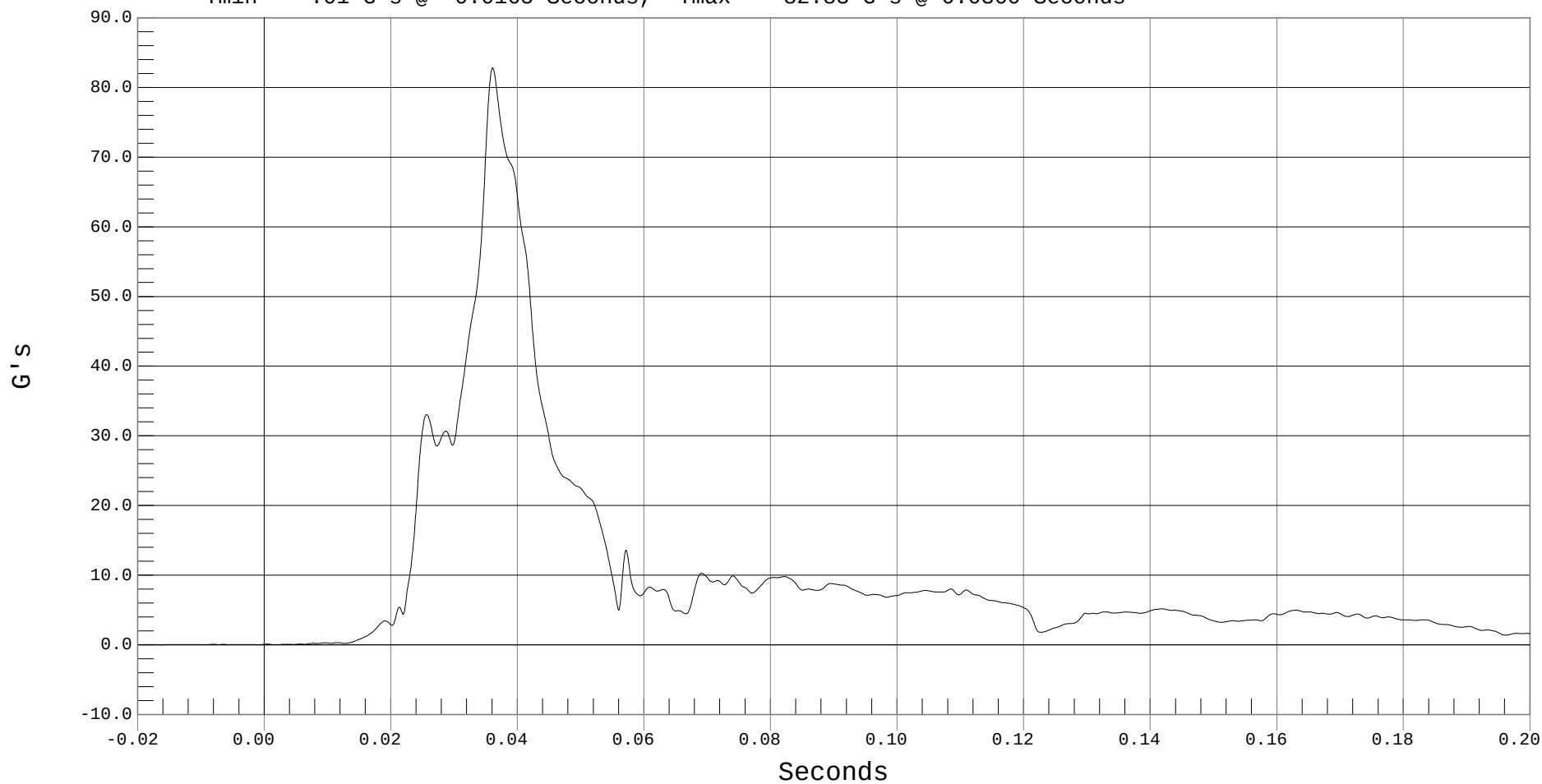
DRIVER UPPER SPINE RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER UPPER SPINE RESULTANT, B01102AV.A20

Ymin = .01 G's @ -0.0165 Seconds, Ymax = 82.83 G's @ 0.0360 Seconds





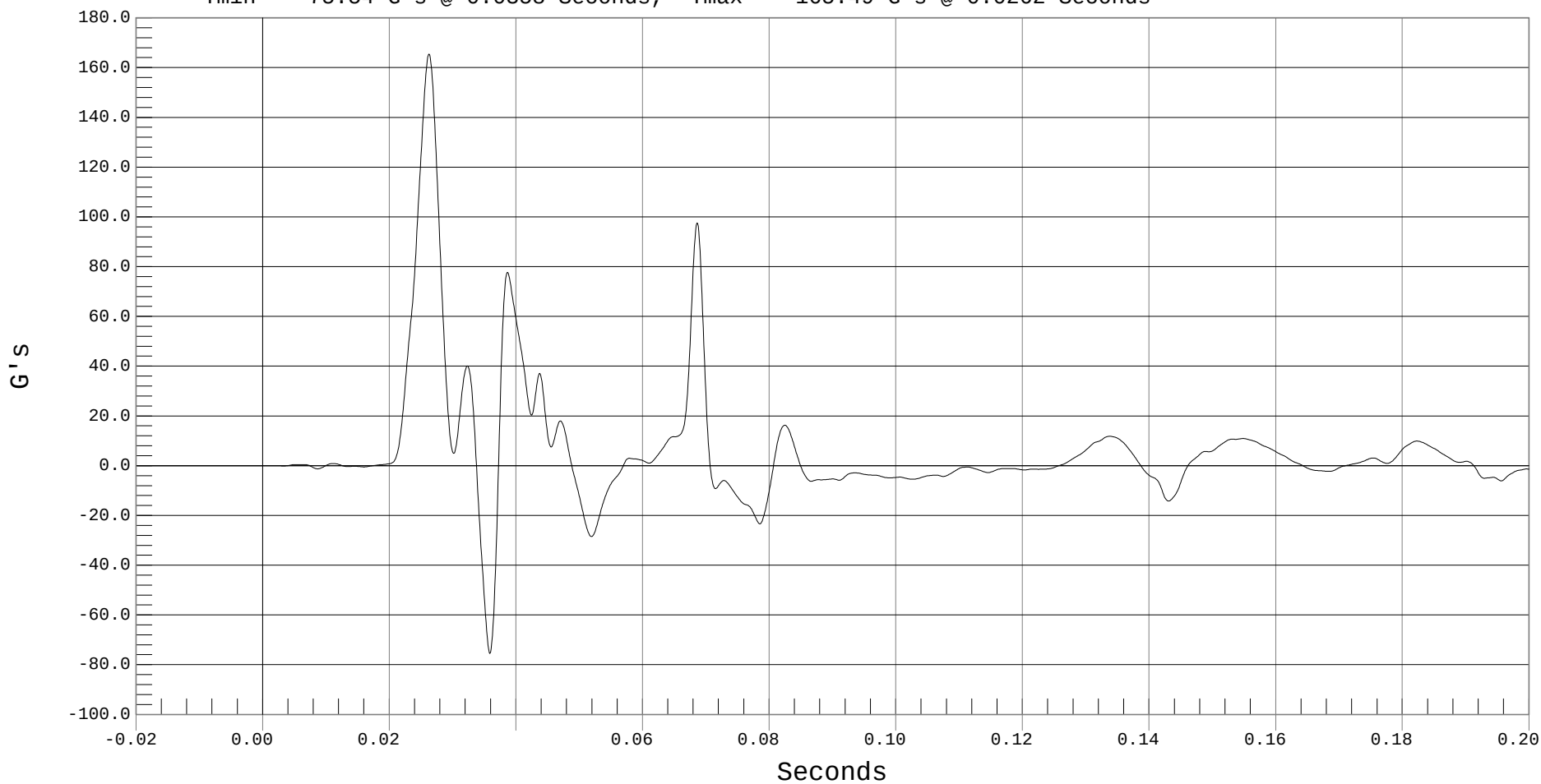
DRIVER UPPER RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

1 DRIVER UPPER RIB Y, B01102AF.A23

Ymin = -75.54 G's @ 0.0358 Seconds, Ymax = 165.49 G's @ 0.0262 Seconds





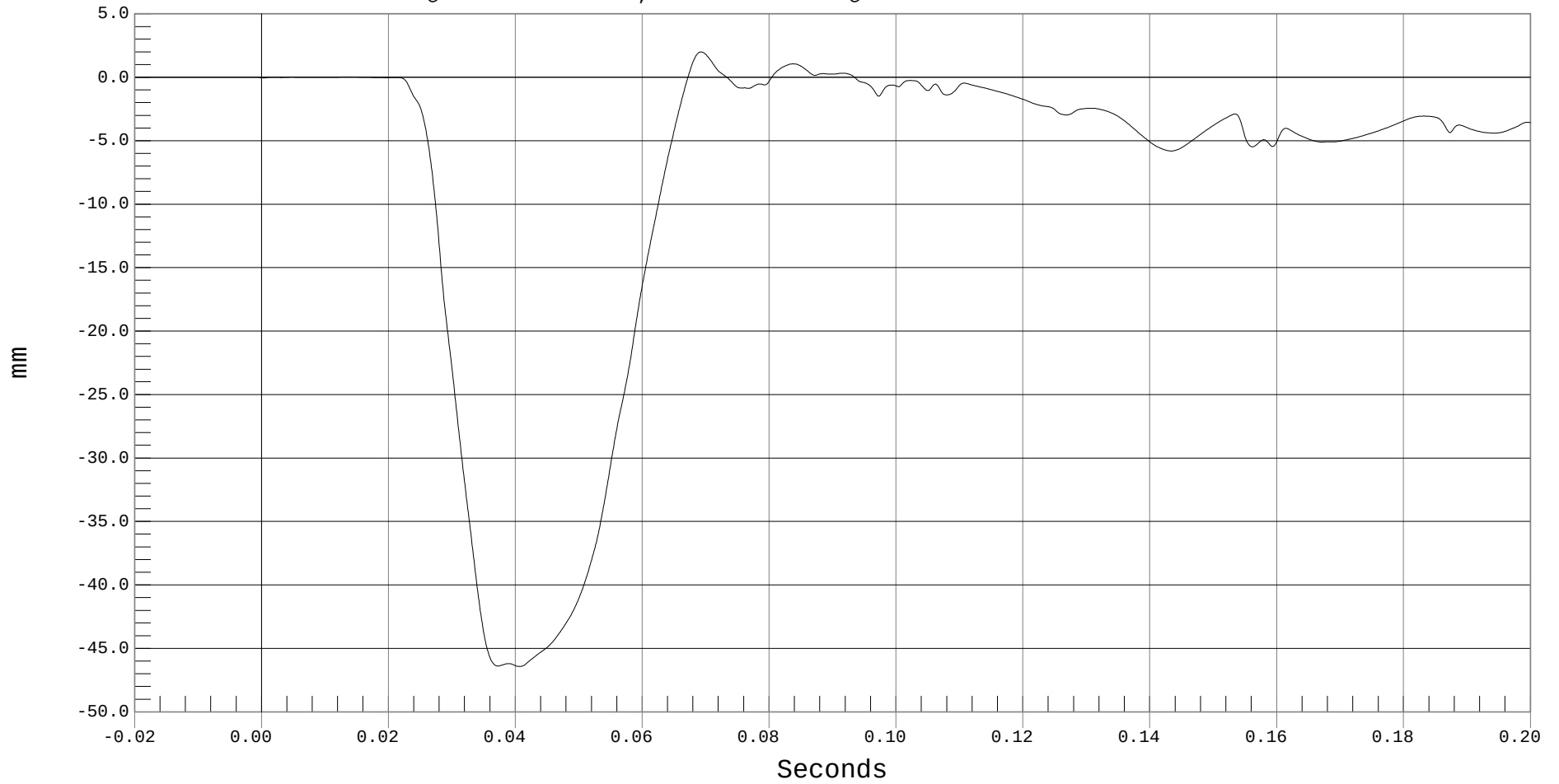
DRIVER UPPER RIB DISPLACEMENT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER UPPER RIB DISPLACEMENT, B01102DF.D26

Ymin = -46.43 mm @ 0.0406 Seconds, Ymax = 2 mm @ 0.0692 Seconds





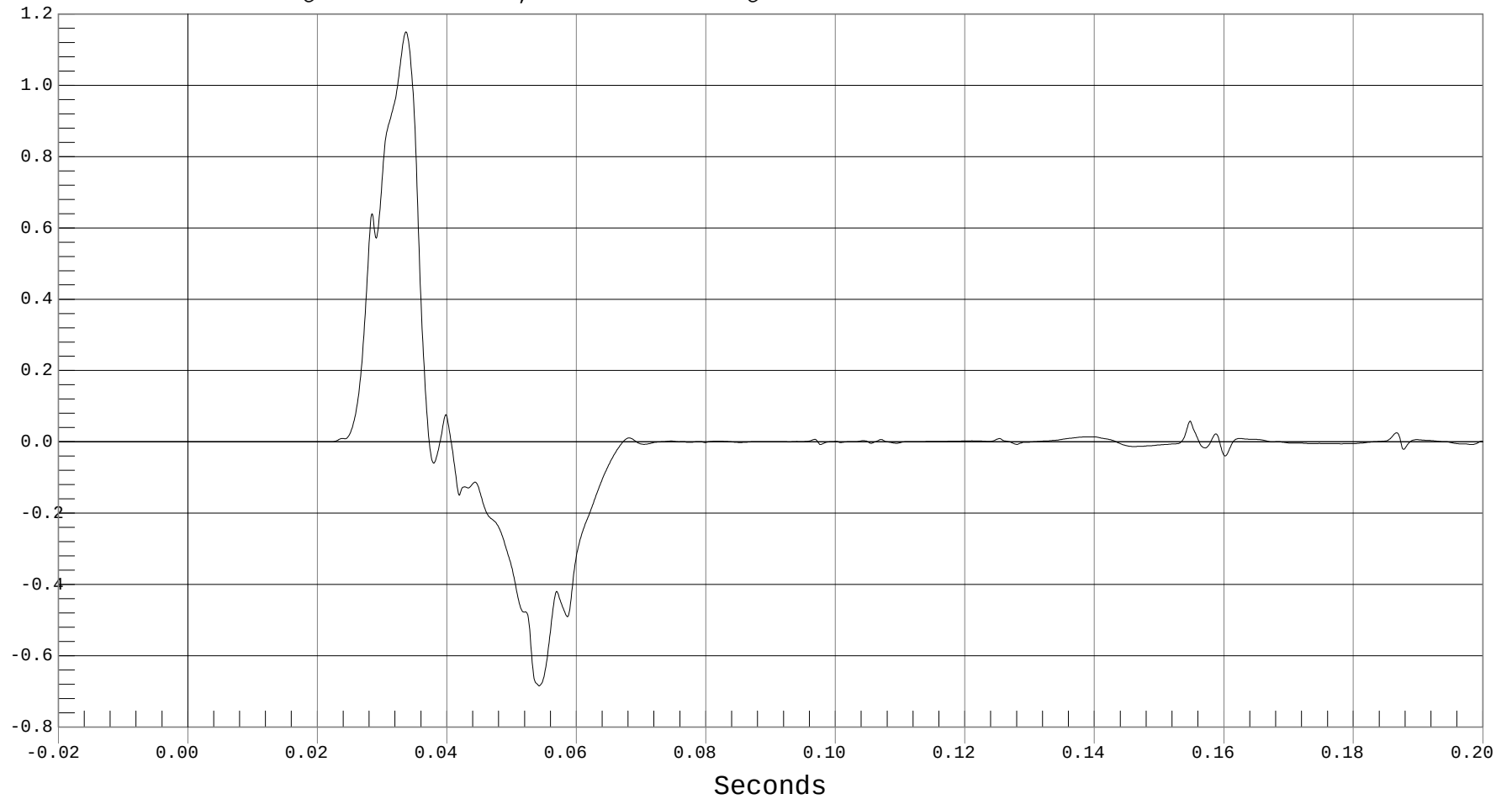
DRIVER UPPER RIB VISCOUS CRITERIA

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 Viscous Criterion, B01102DV.C26

Ymin = -.68 @ 0.0542 Seconds, Ymax = 1.15 @ 0.0336 Seconds





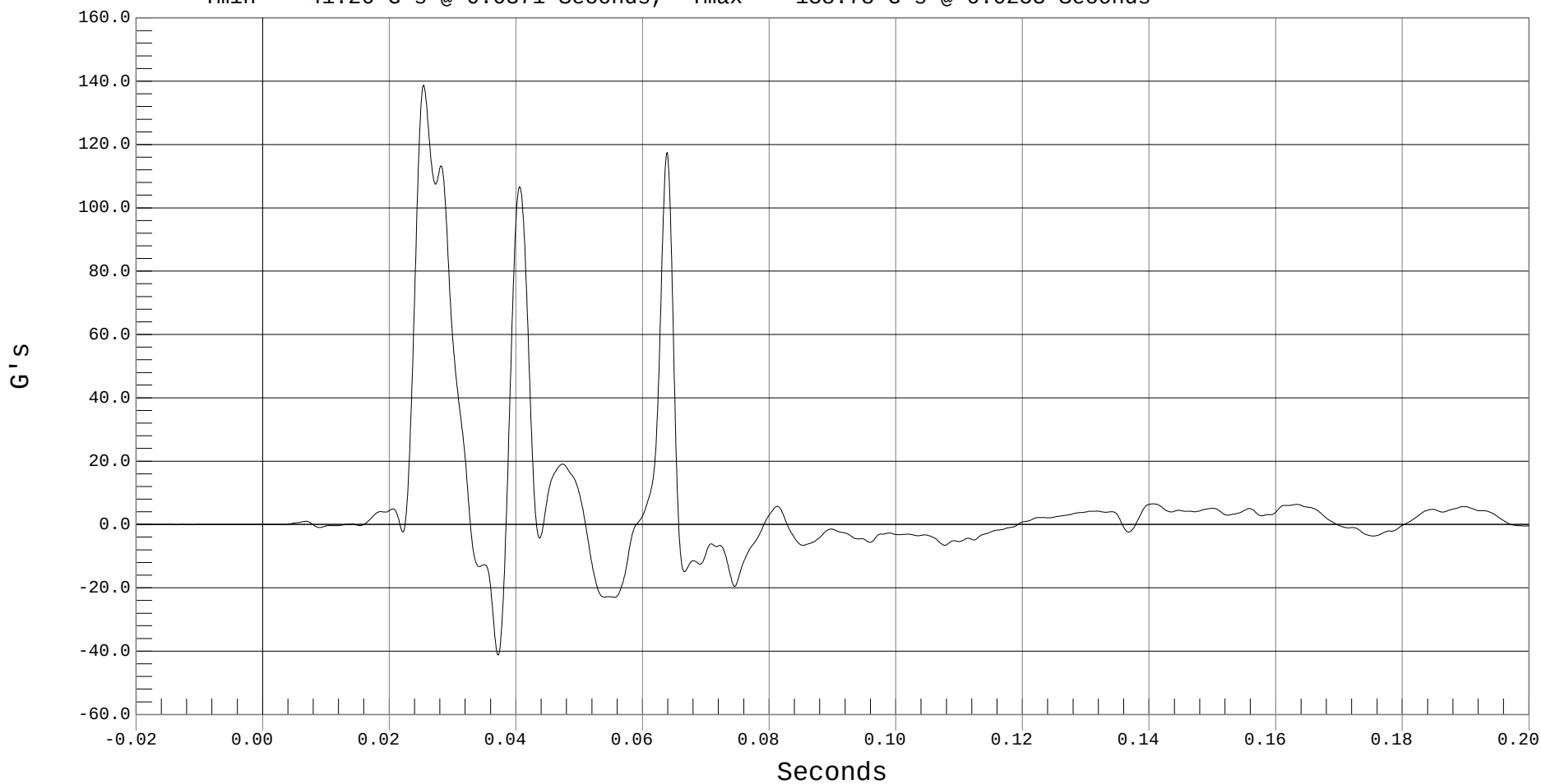
DRIVER MID RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER MID RIB Y, B01102AF.A24

Ymin = -41.26 G's @ 0.0371 Seconds, Ymax = 138.78 G's @ 0.0253 Seconds





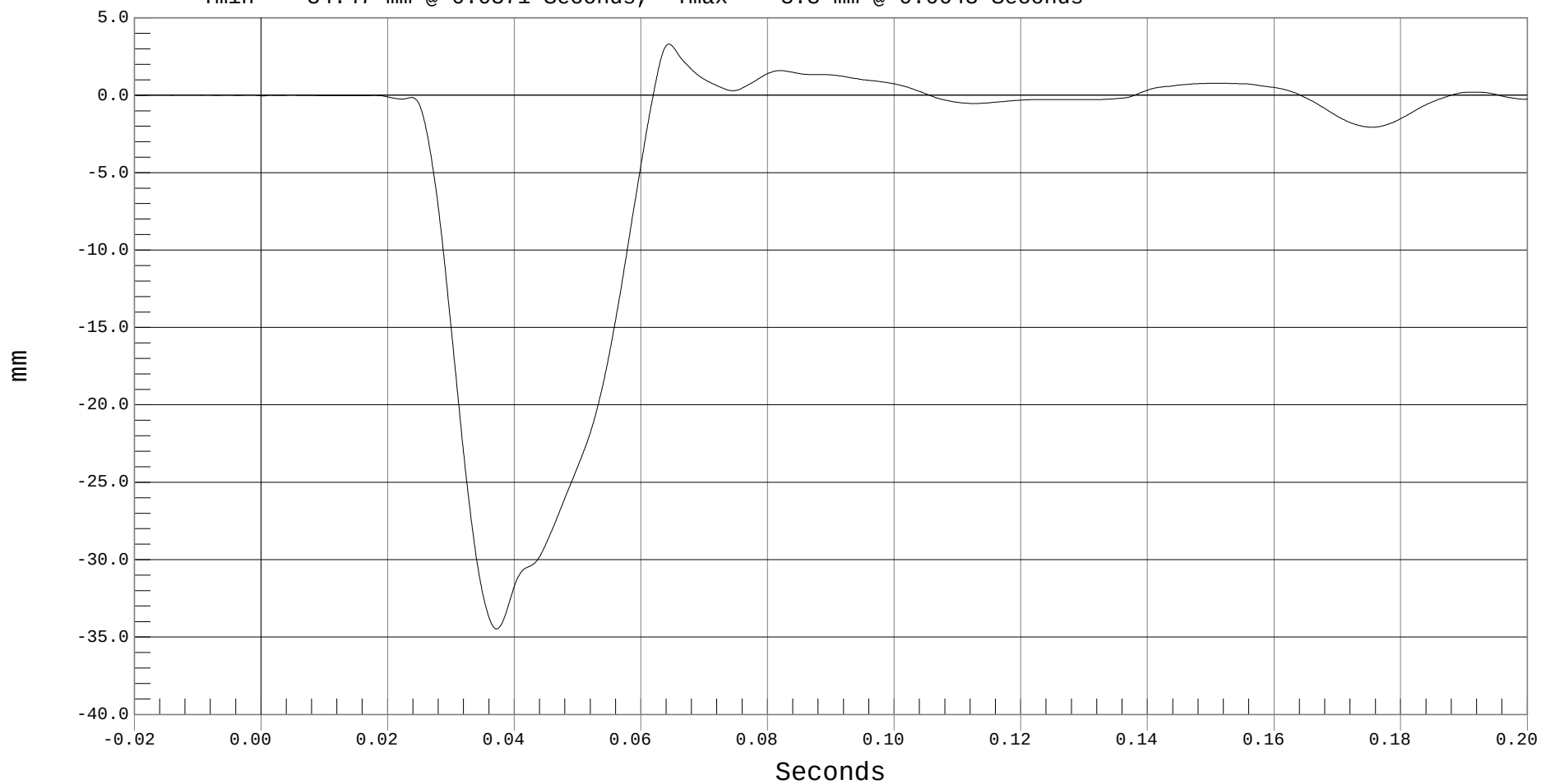
DRIVER MID RIB DISPLACEMENT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER MID RIB DISPLACEMENT, B01102DF.D27

Ymin = -34.47 mm @ 0.0371 Seconds, Ymax = 3.3 mm @ 0.0643 Seconds





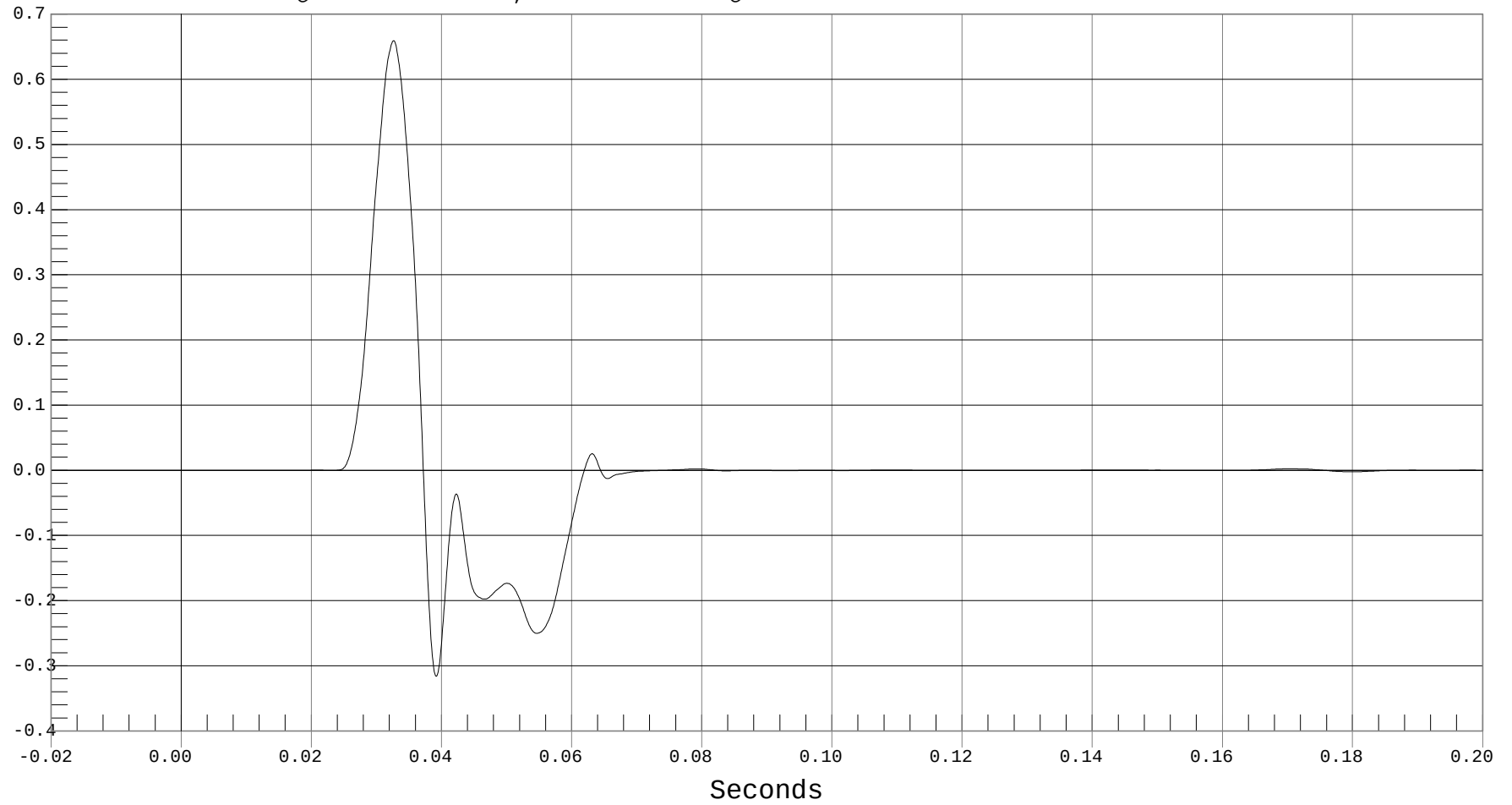
DRIVER MID RIB VISCOUS CRITERIA

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 Viscous Criterion, B01102DV.C27

Ymin = -.32 @ 0.0391 Seconds, Ymax = .66 @ 0.0326 Seconds





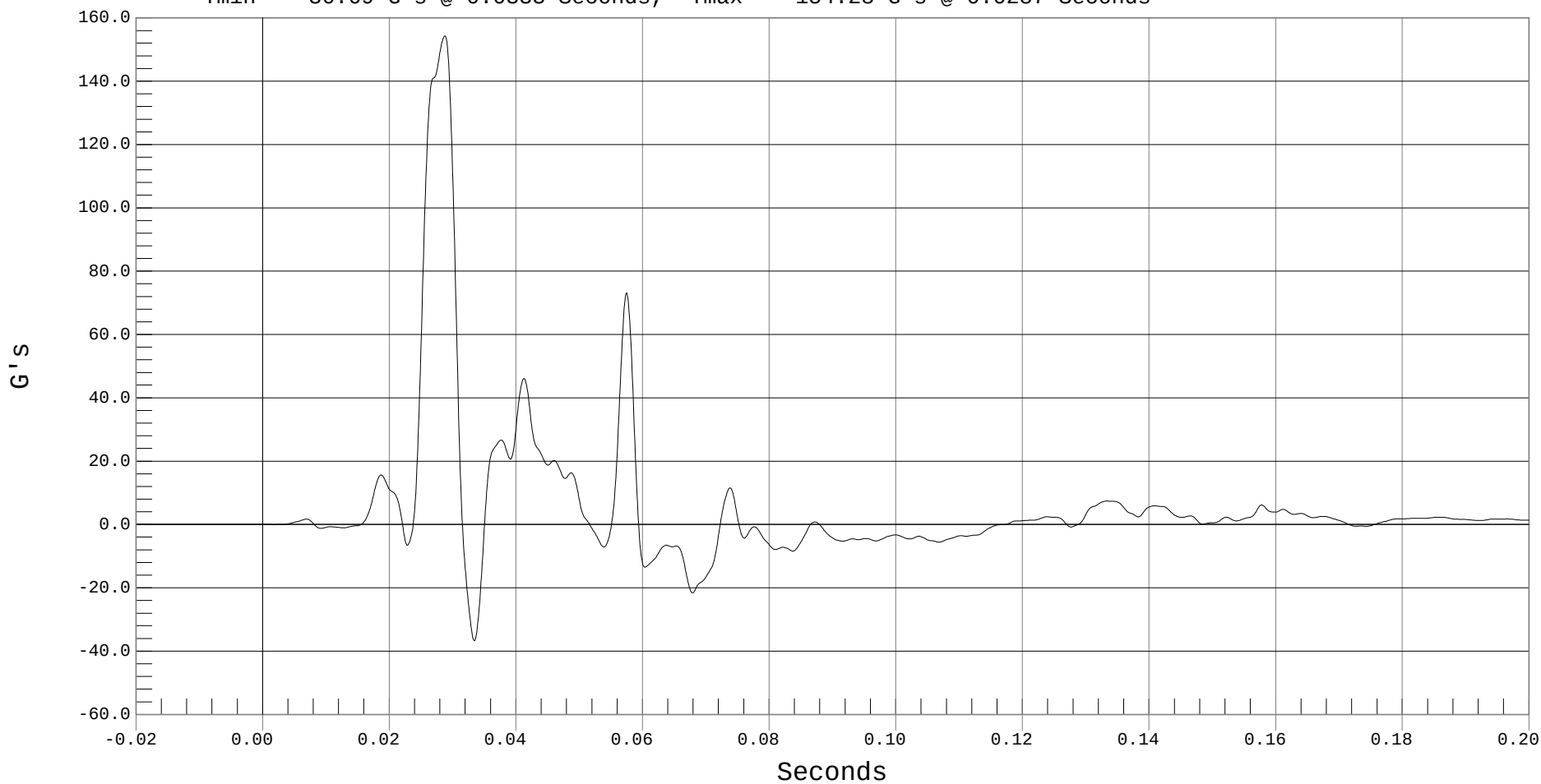
DRIVER LOWER RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER LOWER RIB Y, B01102AF.A25

Ymin = -36.69 G's @ 0.0333 Seconds, Ymax = 154.28 G's @ 0.0287 Seconds





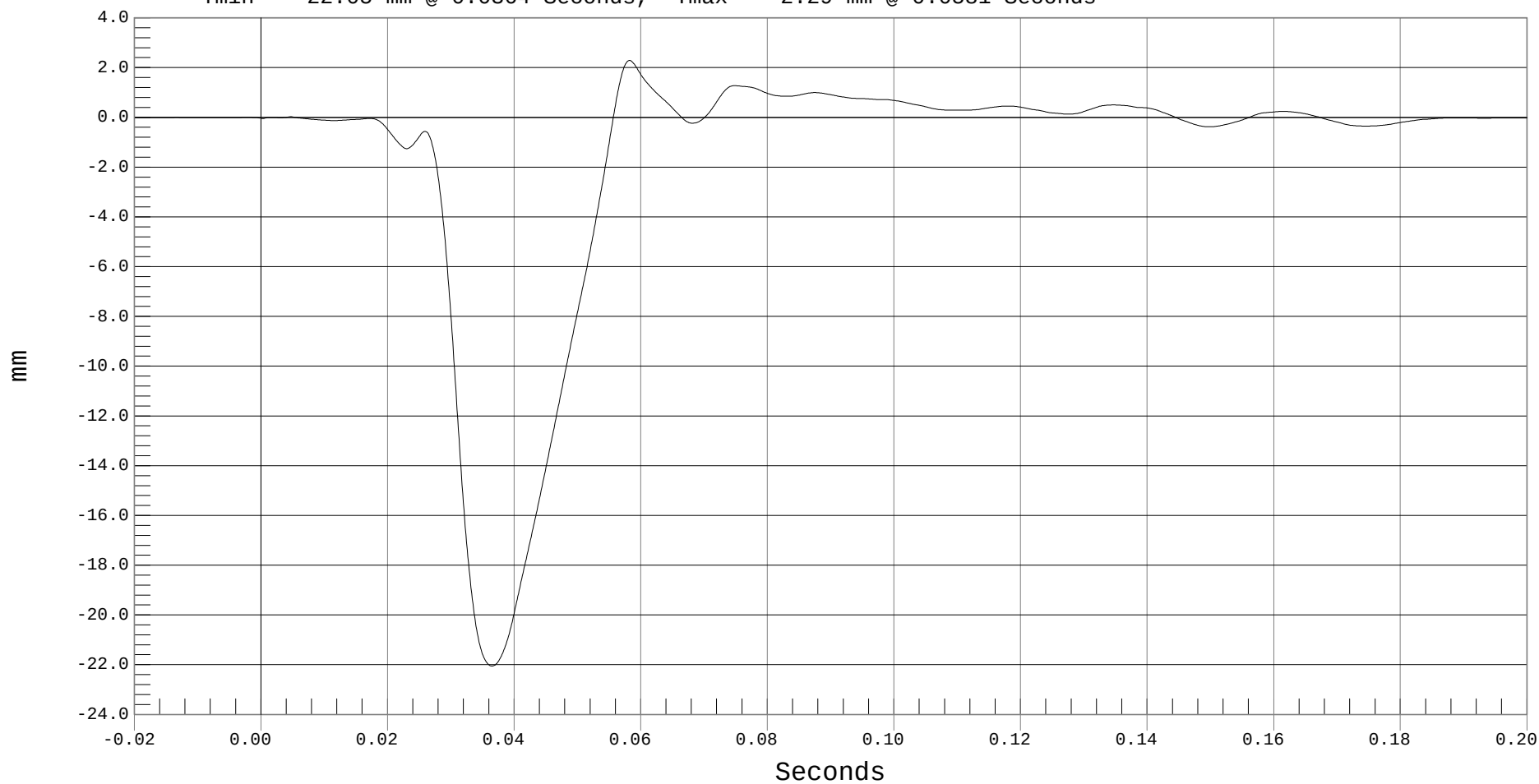
DRIVER LOWER RIB DISPLACEMENT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

1 DRIVER LOWER RIB DISPLACEMENT, B01102DF.D28

Ymin = -22.05 mm @ 0.0364 Seconds, Ymax = 2.29 mm @ 0.0581 Seconds





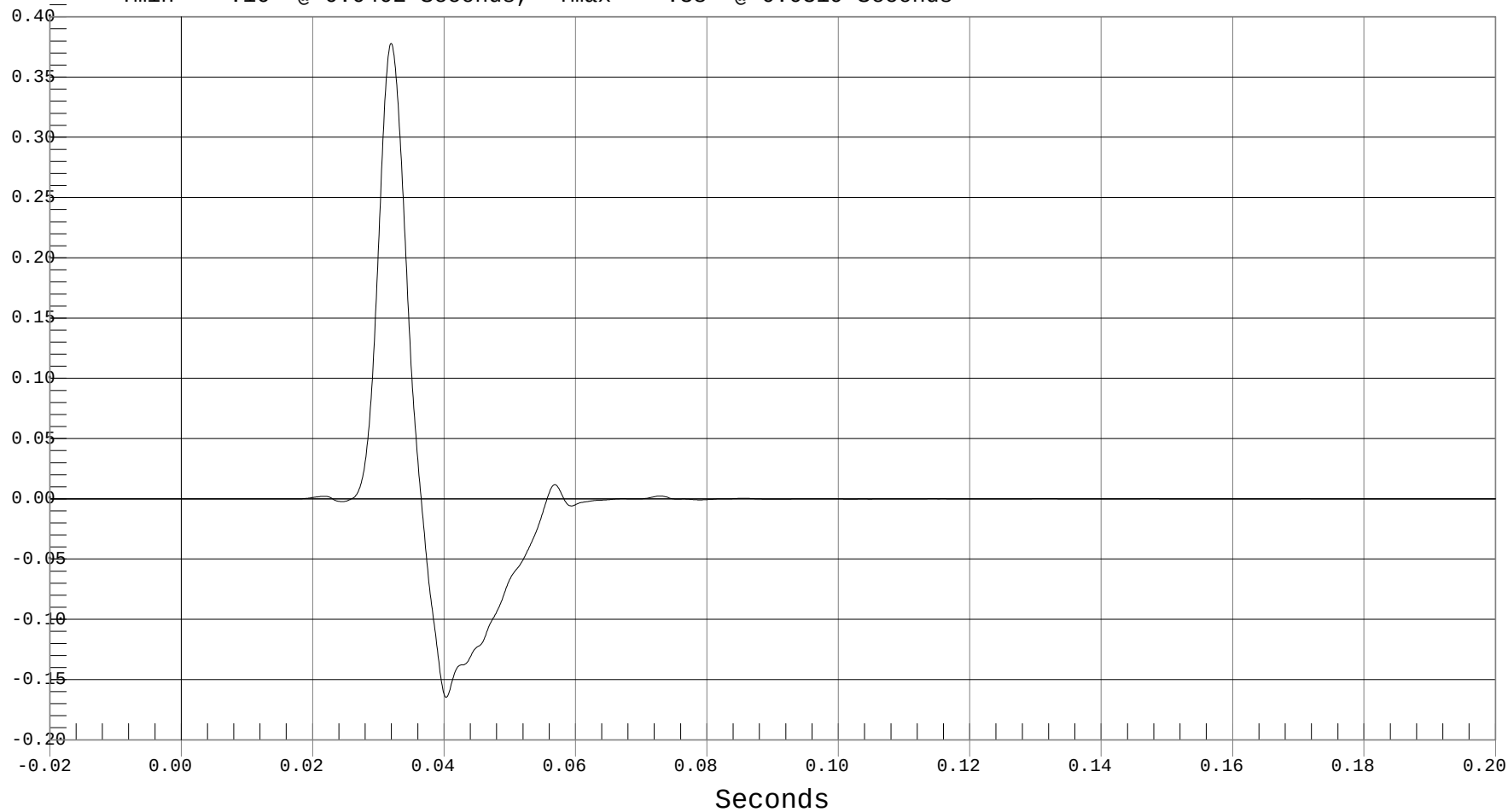
DRIVER LOWER RIB VISCOUS CRITERIA

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 Viscous Criterion, B01102DV.C28

Ymin = -.16 @ 0.0402 Seconds, Ymax = .38 @ 0.0319 Seconds





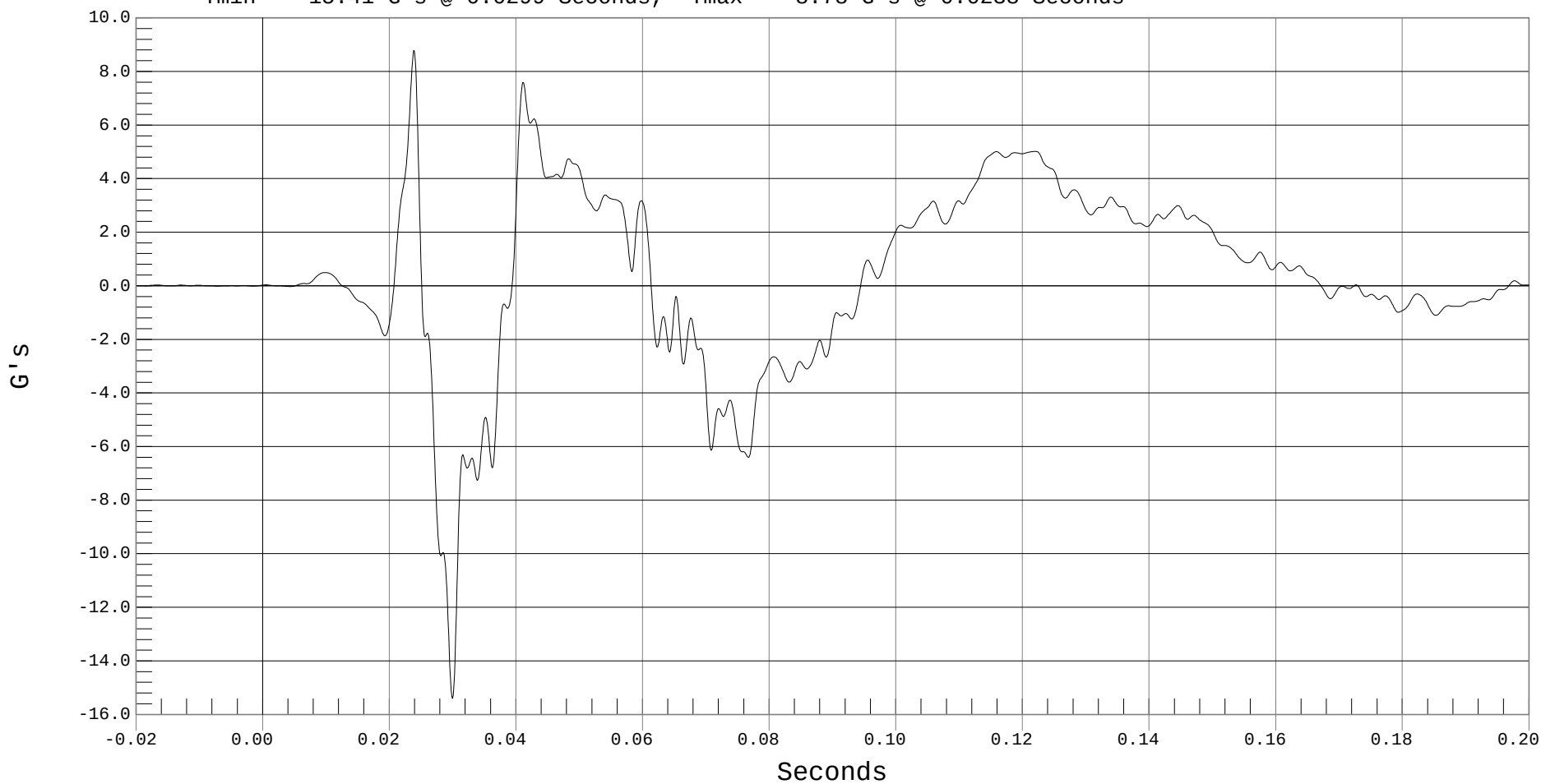
DRIVER LOWER SPINE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER LOWER SPINE X, B01102AF.A29

Ymin = -15.41 G's @ 0.0299 Seconds, Ymax = 8.78 G's @ 0.0238 Seconds





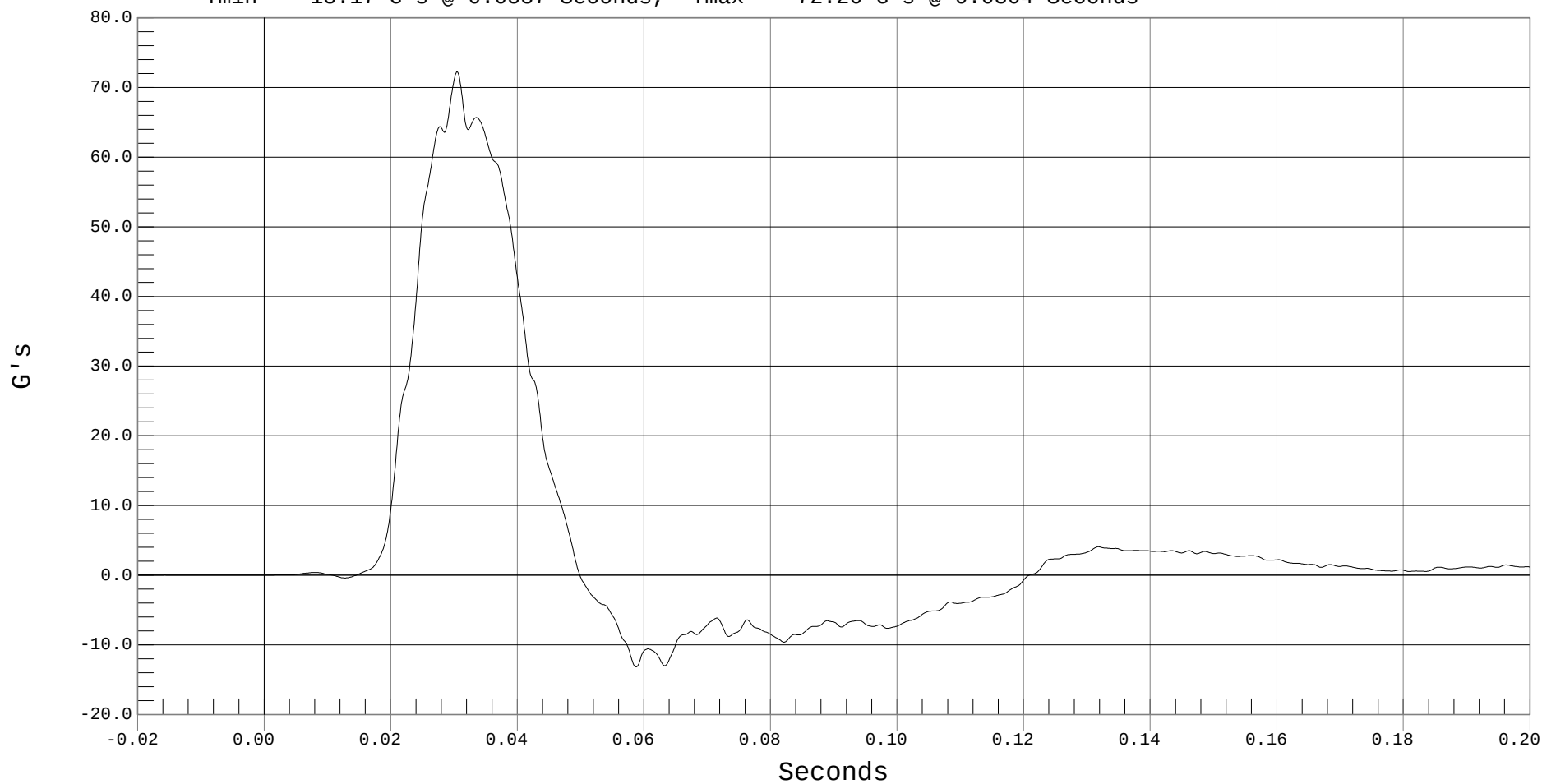
DRIVER LOWER SPINE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER LOWER SPINE Y, B01102AF.A30

Ymin = -13.17 G's @ 0.0587 Seconds, Ymax = 72.26 G's @ 0.0304 Seconds





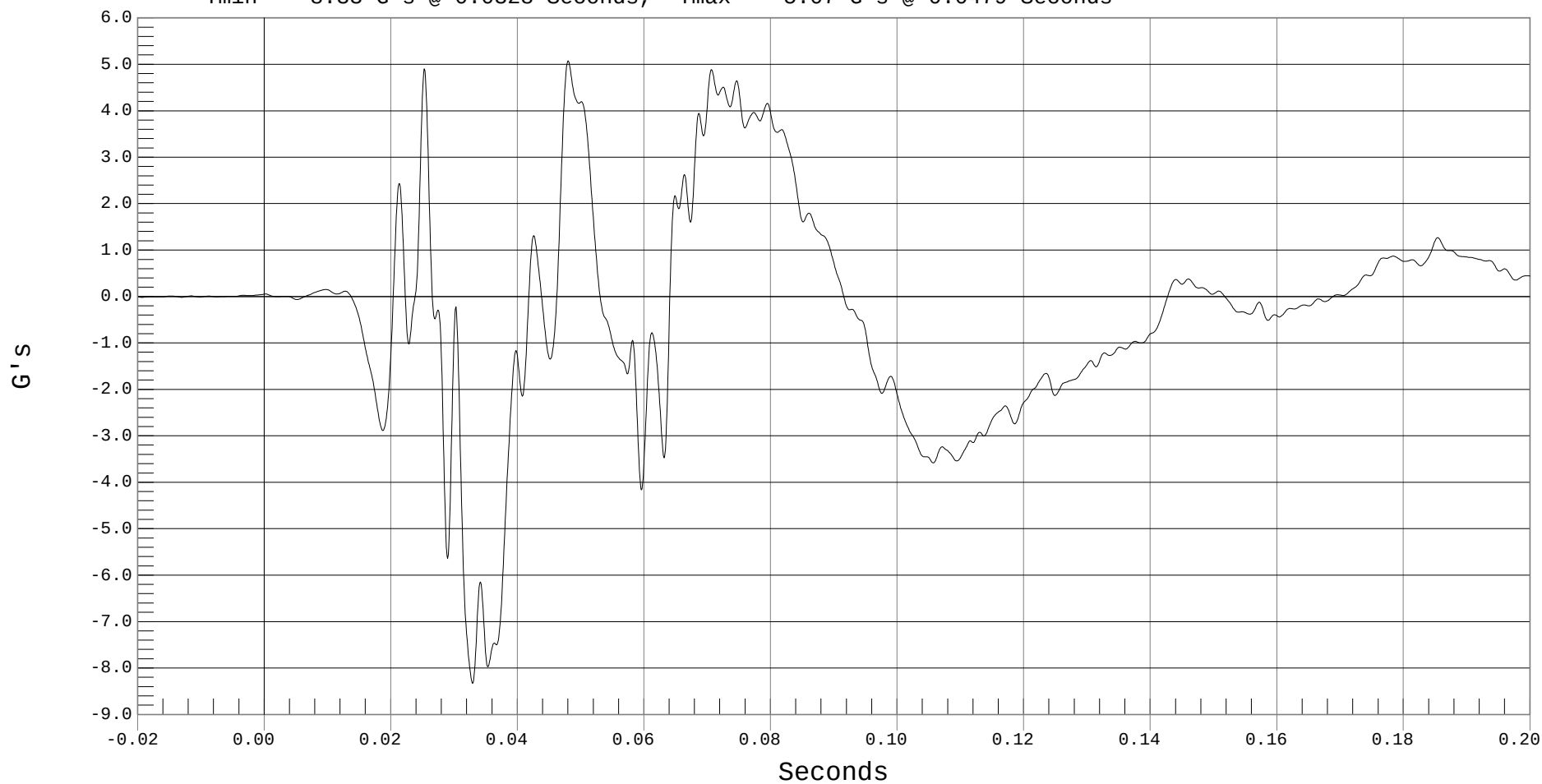
DRIVER LOWER SPINE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 DRIVER LOWER SPINE Z, B01102AF.A31

Ymin = -8.33 G's @ 0.0328 Seconds, Ymax = 5.07 G's @ 0.0479 Seconds





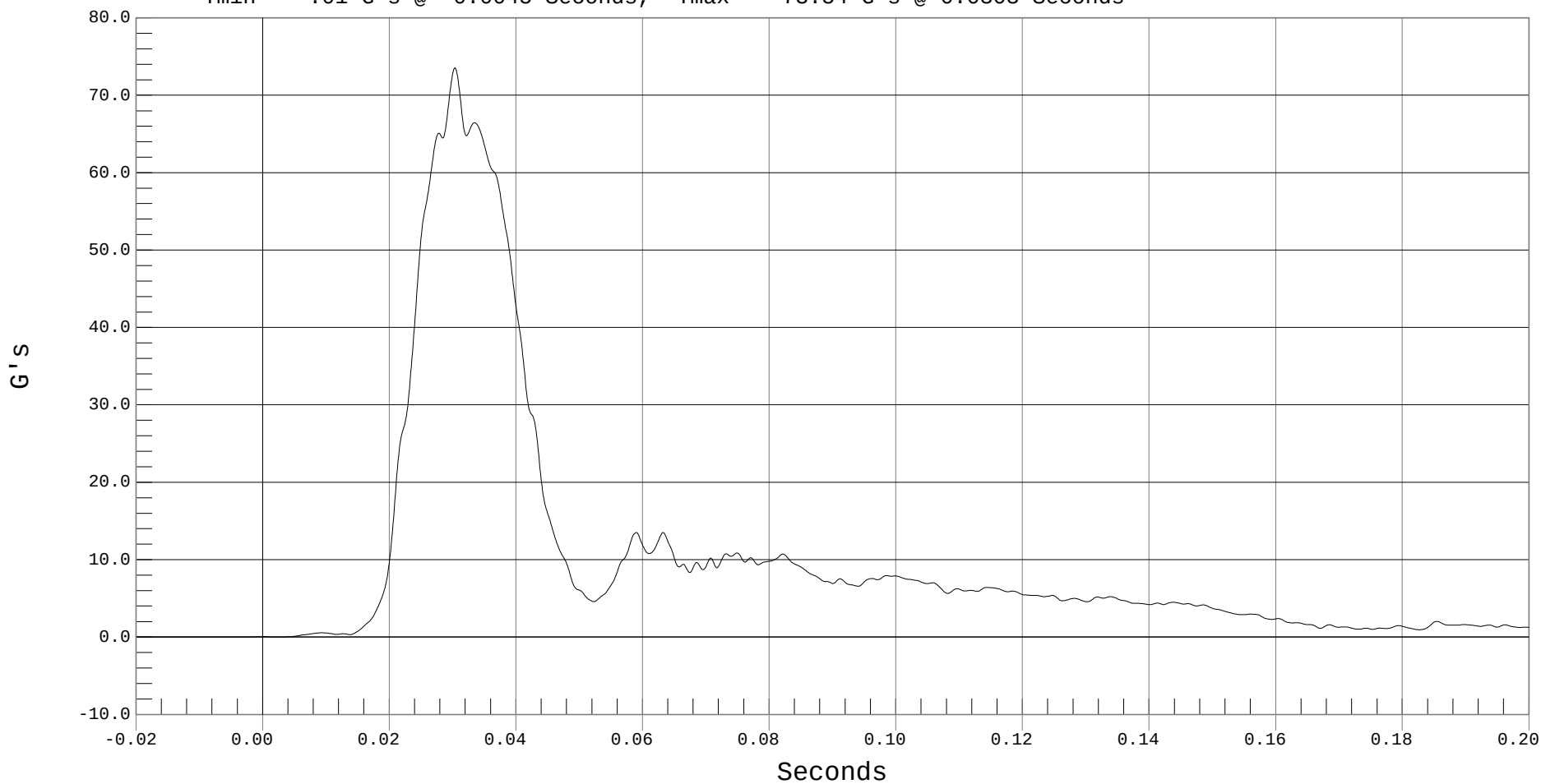
DRIVER LOWER SPINE RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

1 DRIVER LOWER SPINE RESULTANT, B01102AV.A29

Ymin = .01 G's @ -0.0045 Seconds, Ymax = 73.54 G's @ 0.0303 Seconds





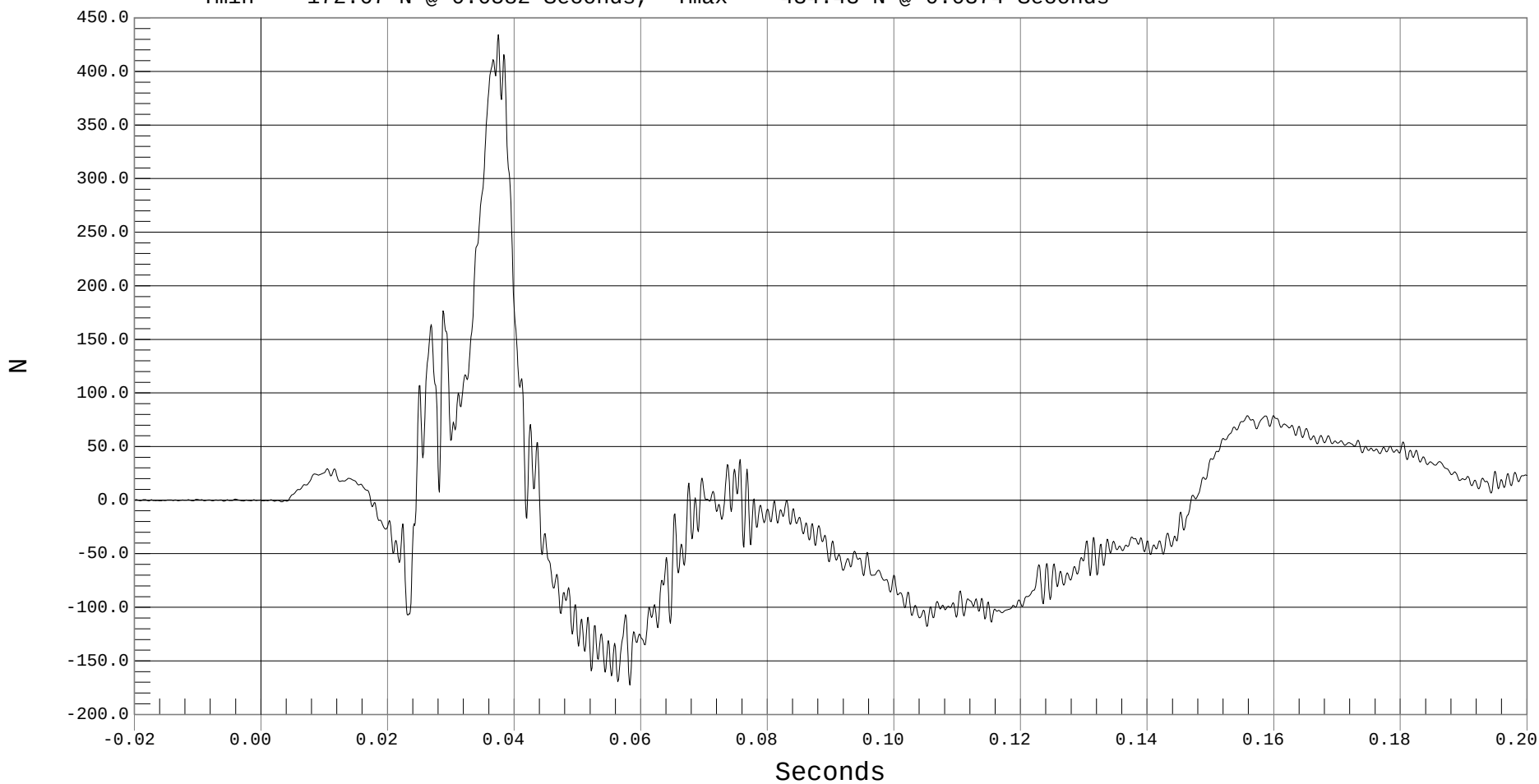
DRIVER TORSO FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER TORSO FORCE X, B01102FF.F33

Ymin = -172.67 N @ 0.0582 Seconds, Ymax = 434.43 N @ 0.0374 Seconds





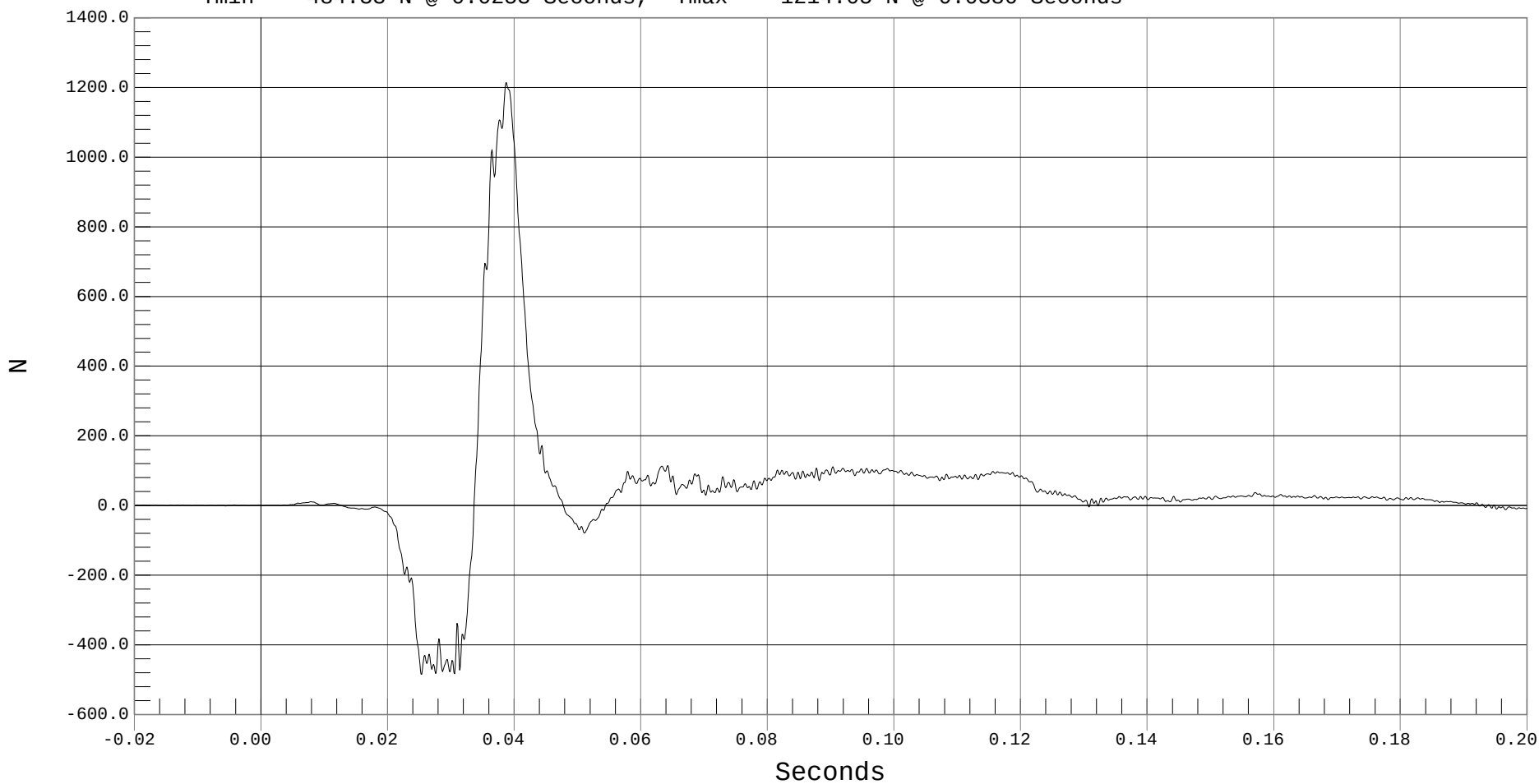
DRIVER TORSO FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER TORSO FORCE Y, B01102FF.F34

Ymin = -484.33 N @ 0.0253 Seconds, Ymax = 1214.05 N @ 0.0386 Seconds





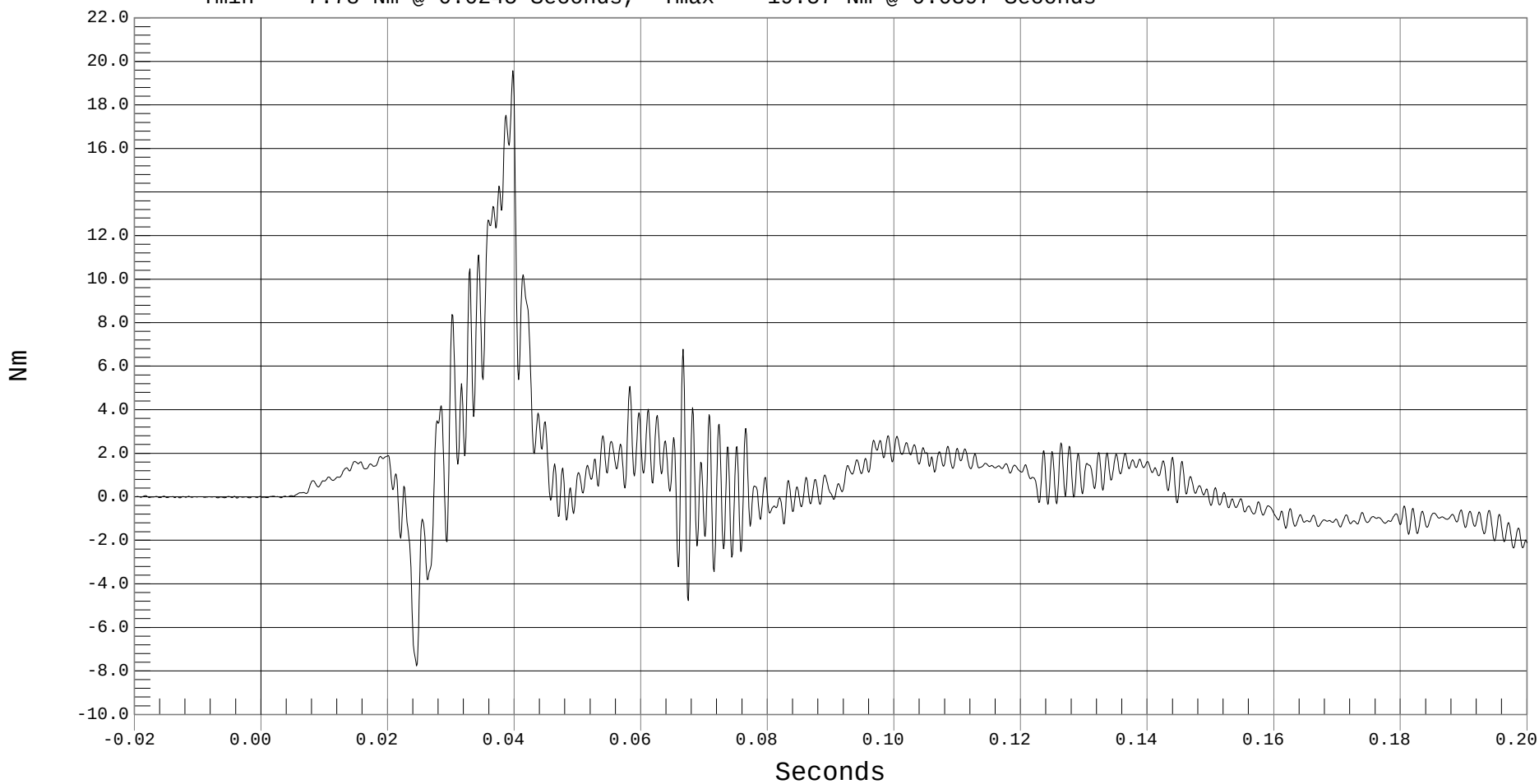
DRIVER TORSO MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER TORSO MOMENT Y, B01102MF.M35

Ymin = -7.78 Nm @ 0.0245 Seconds, Ymax = 19.57 Nm @ 0.0397 Seconds





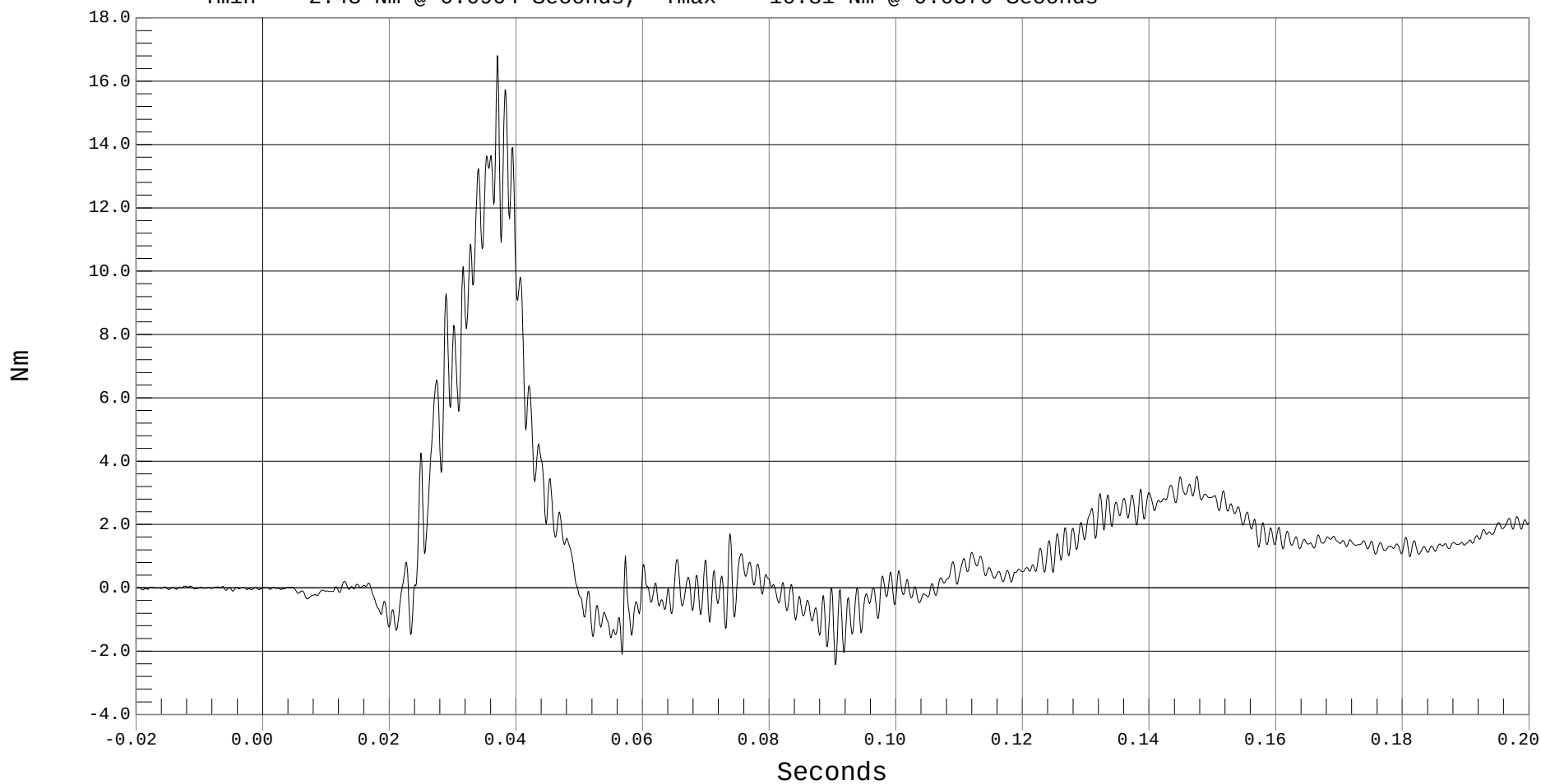
DRIVER TORSO MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER TORSO MOMENT Z, B01102MF.M36

Ymin = -2.43 Nm @ 0.0904 Seconds, Ymax = 16.81 Nm @ 0.0370 Seconds





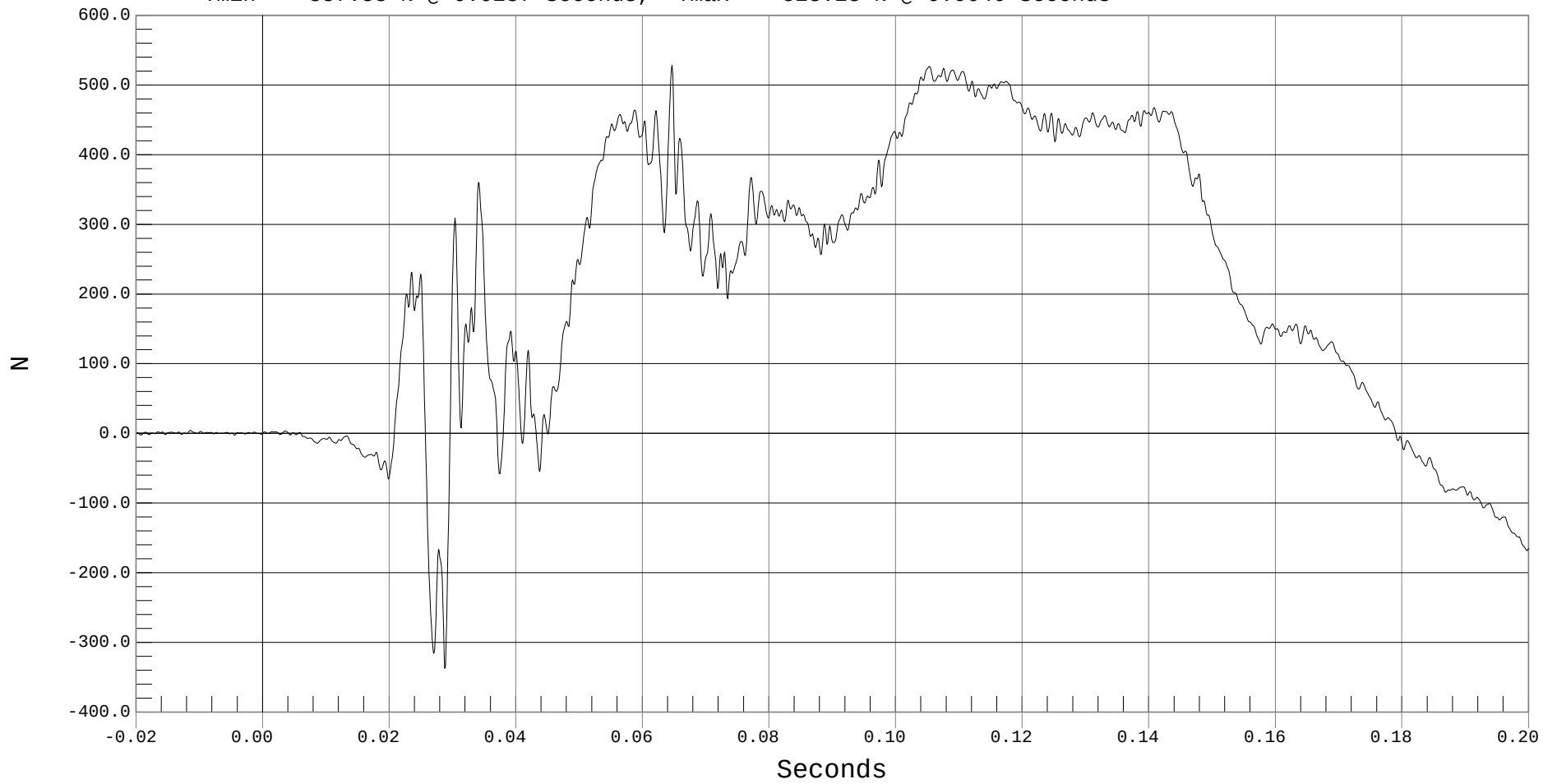
DRIVER T-12 FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER T-12 FORCE X, B01102FF.F37

Ymin = -337.53 N @ 0.0287 Seconds, Ymax = 528.28 N @ 0.0646 Seconds





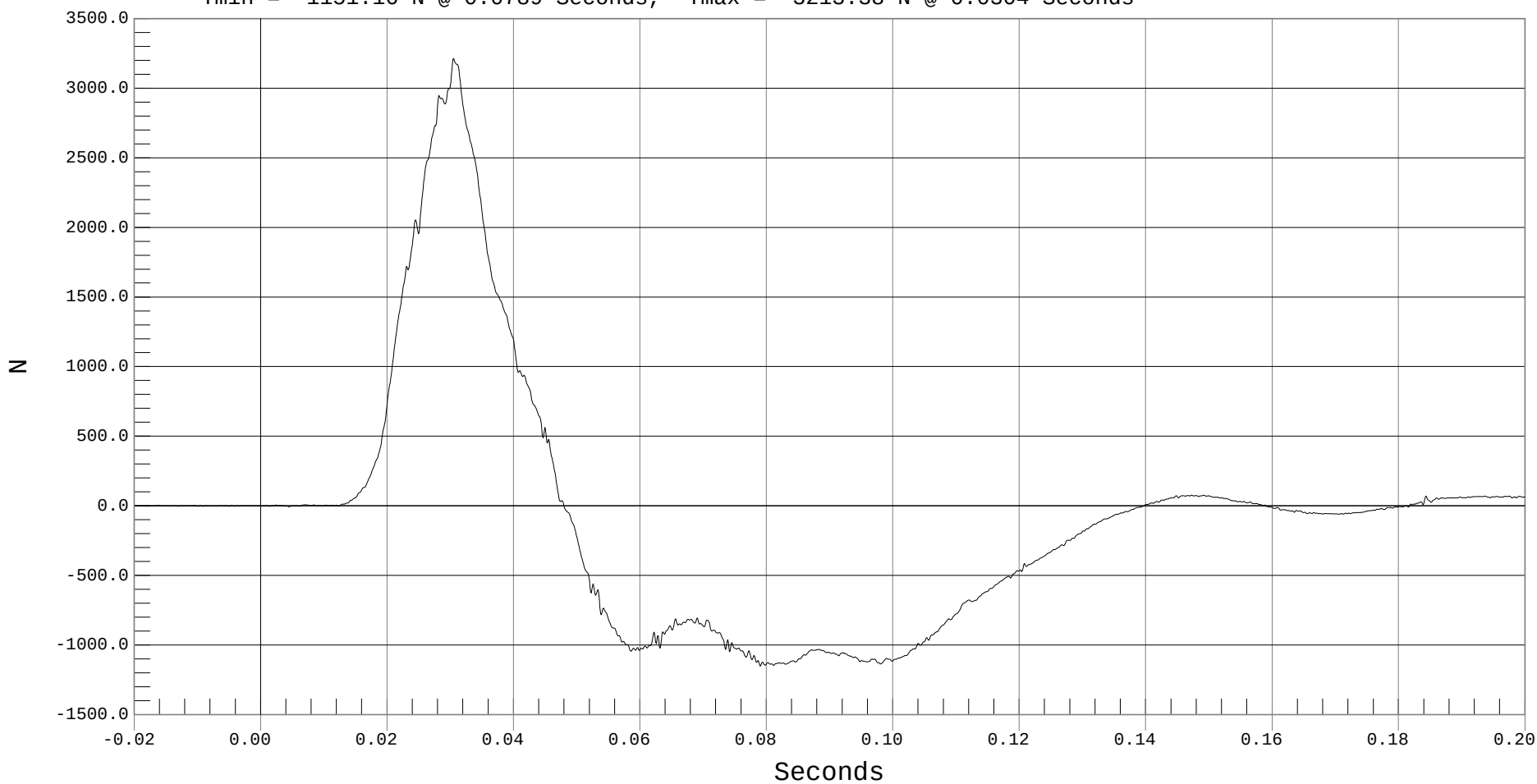
DRIVER LUMBAR FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

1 DRIVER LUMBAR FORCE Y, B01102FT.F94

Ymin = -1151.16 N @ 0.0789 Seconds, Ymax = 3213.38 N @ 0.0304 Seconds





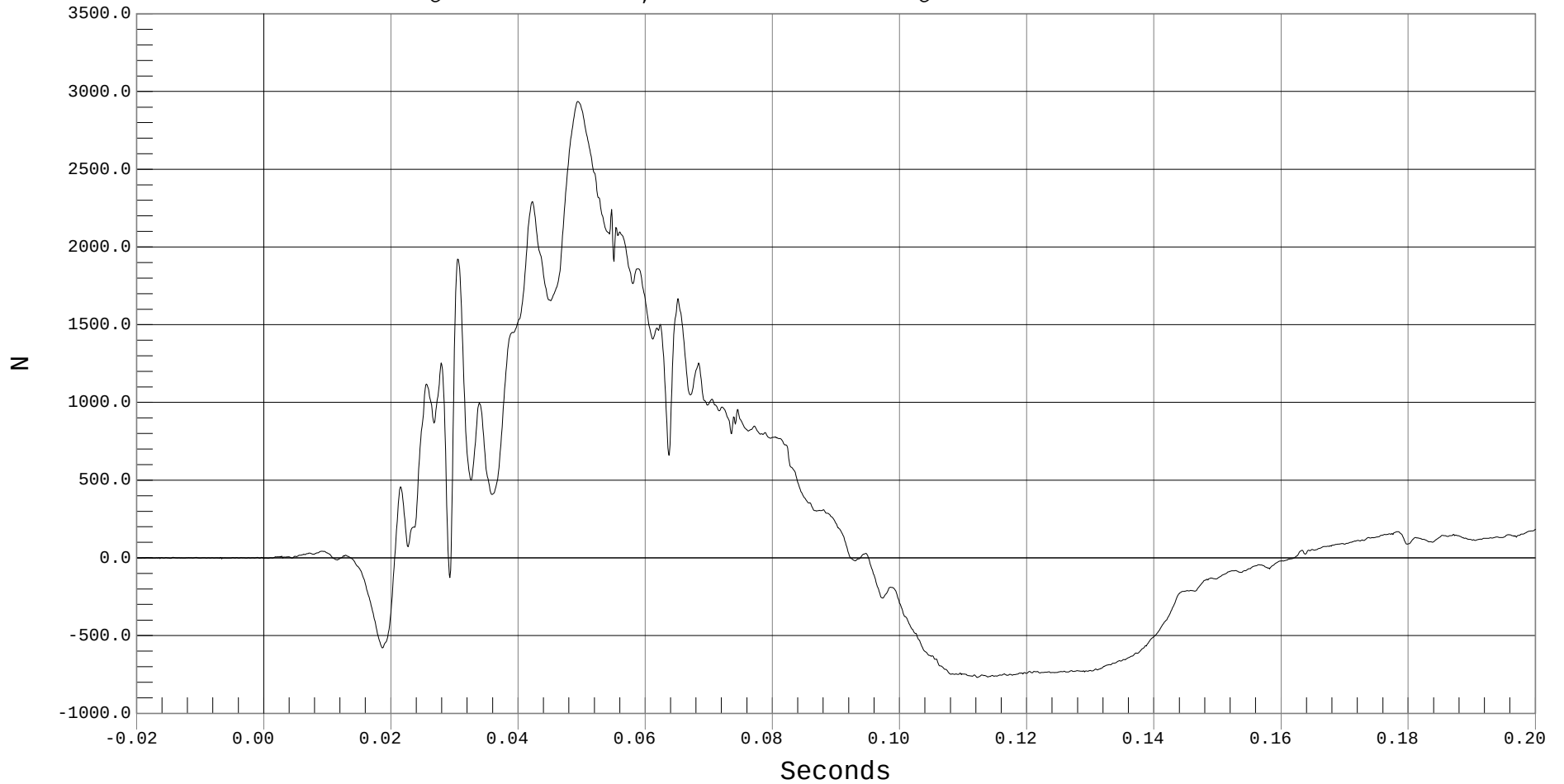
DRIVER LUMBAR FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER LUMBAR FORCE Z, B01102FT.F95

Ymin = -769.32 N @ 0.1121 Seconds, Ymax = 2936.73 N @ 0.0493 Seconds





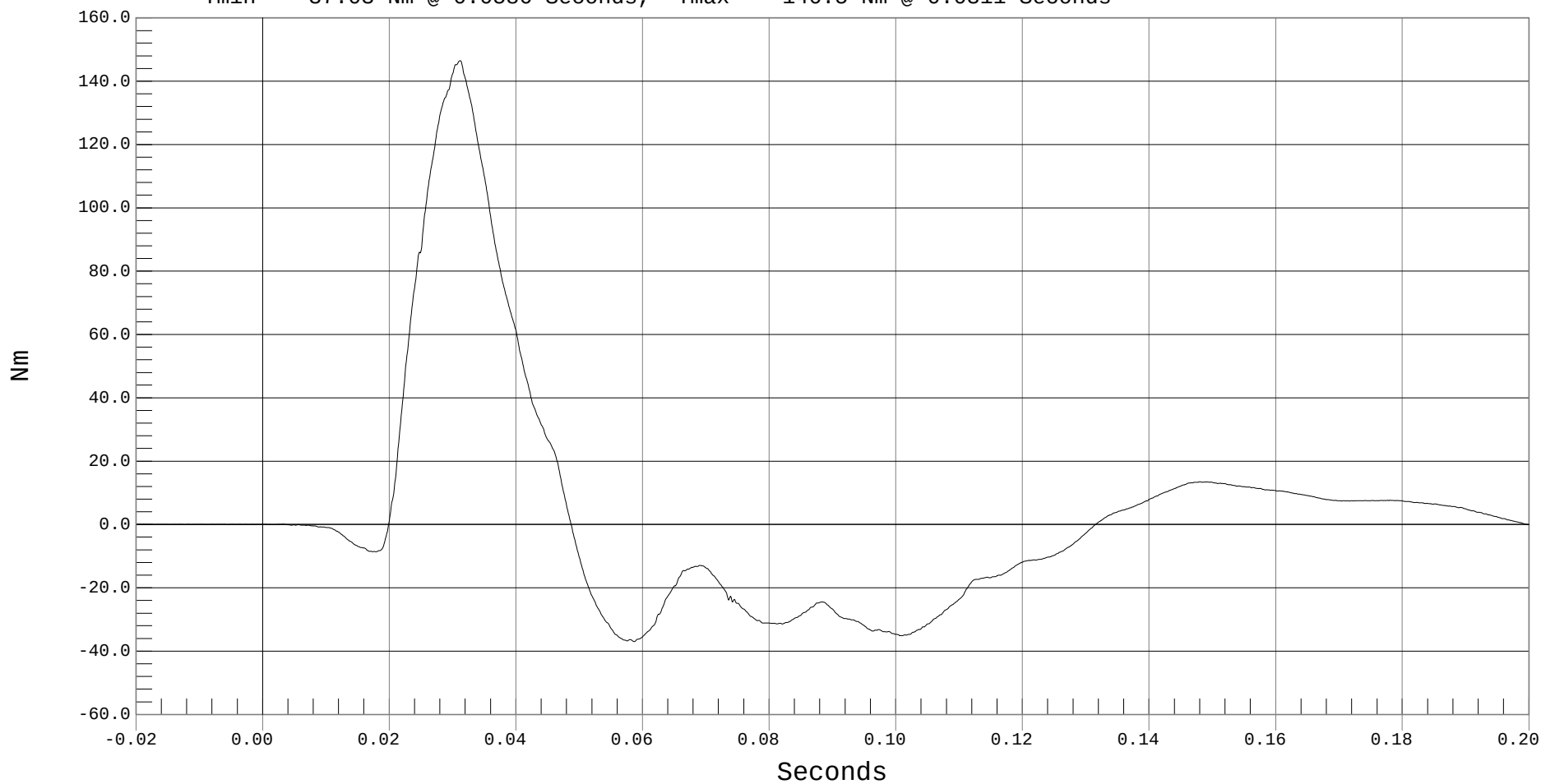
DRIVER LUMBAR MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER LUMBAR MOMENT X, B01102MT.M96

Ymin = -37.03 Nm @ 0.0586 Seconds, Ymax = 146.5 Nm @ 0.0311 Seconds





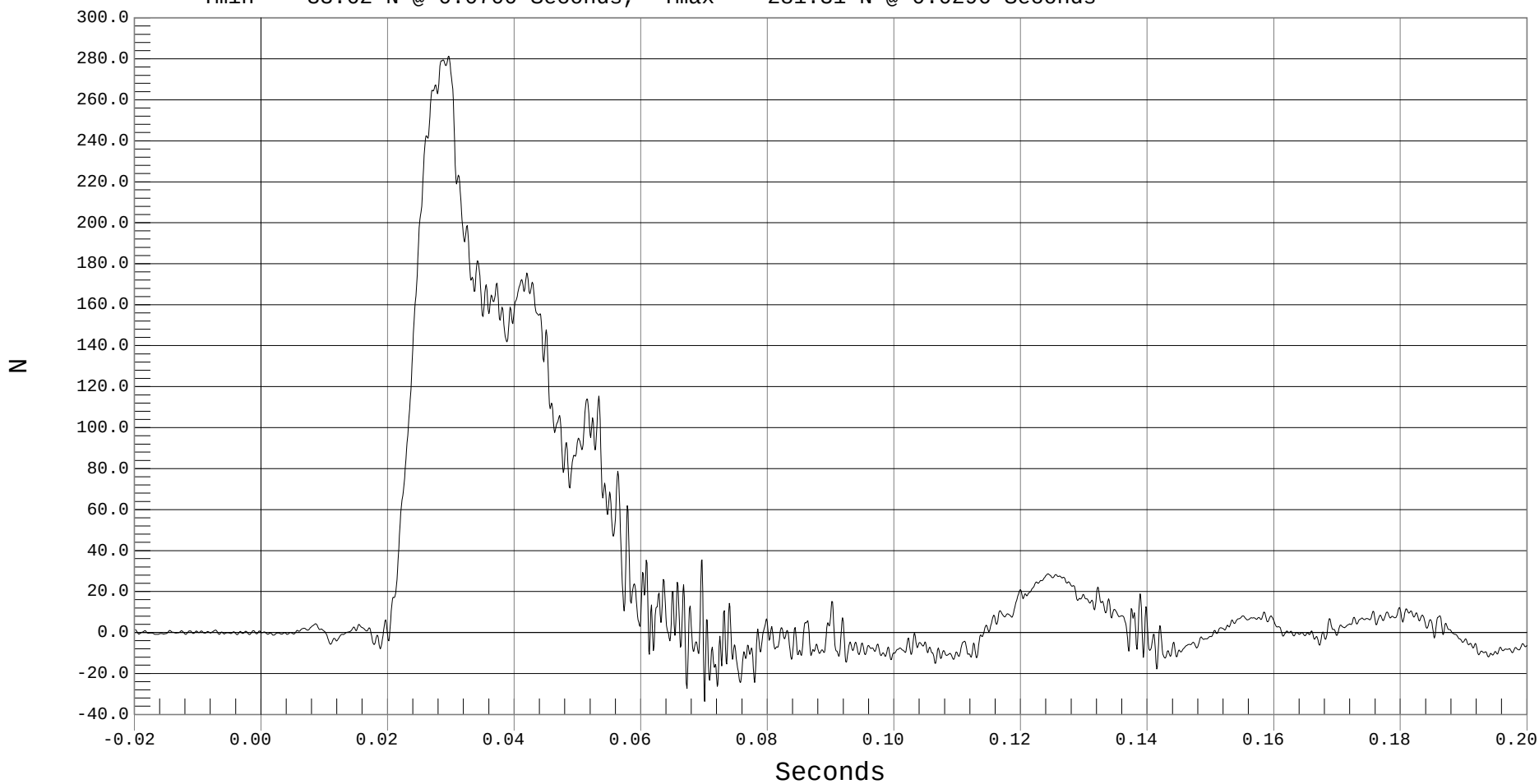
DRIVER ABDOMEN FRONT FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER FRONT ABDOMEN FORCE, B01102FF.F41

Ymin = -33.62 N @ 0.0700 Seconds, Ymax = 281.31 N @ 0.0296 Seconds





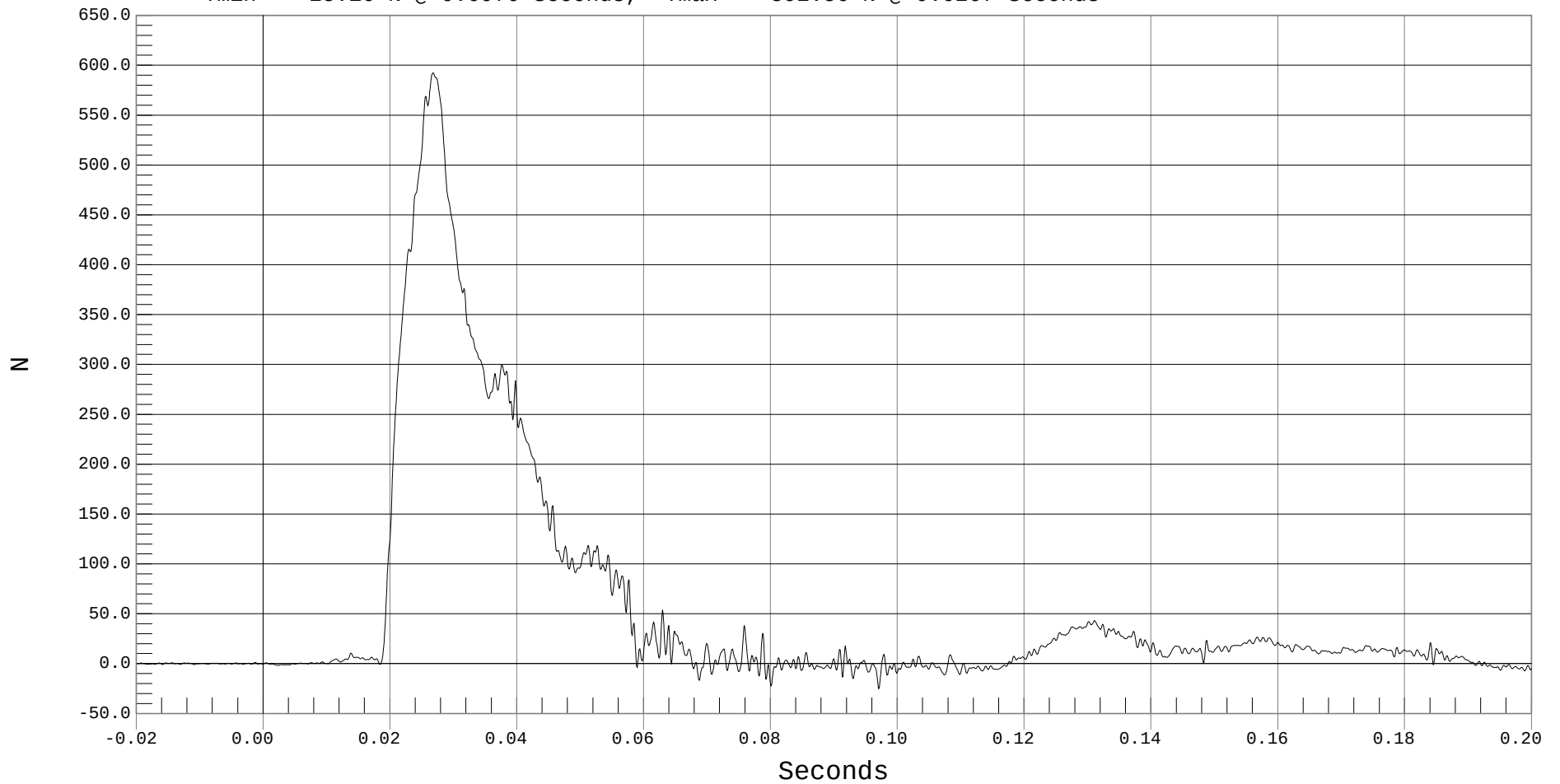
DRIVER ABDOMEN MID FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER MID ABDOMEN FORCE, B01102FF.F42

Ymin = -25.16 N @ 0.0970 Seconds, Ymax = 592.56 N @ 0.0267 Seconds





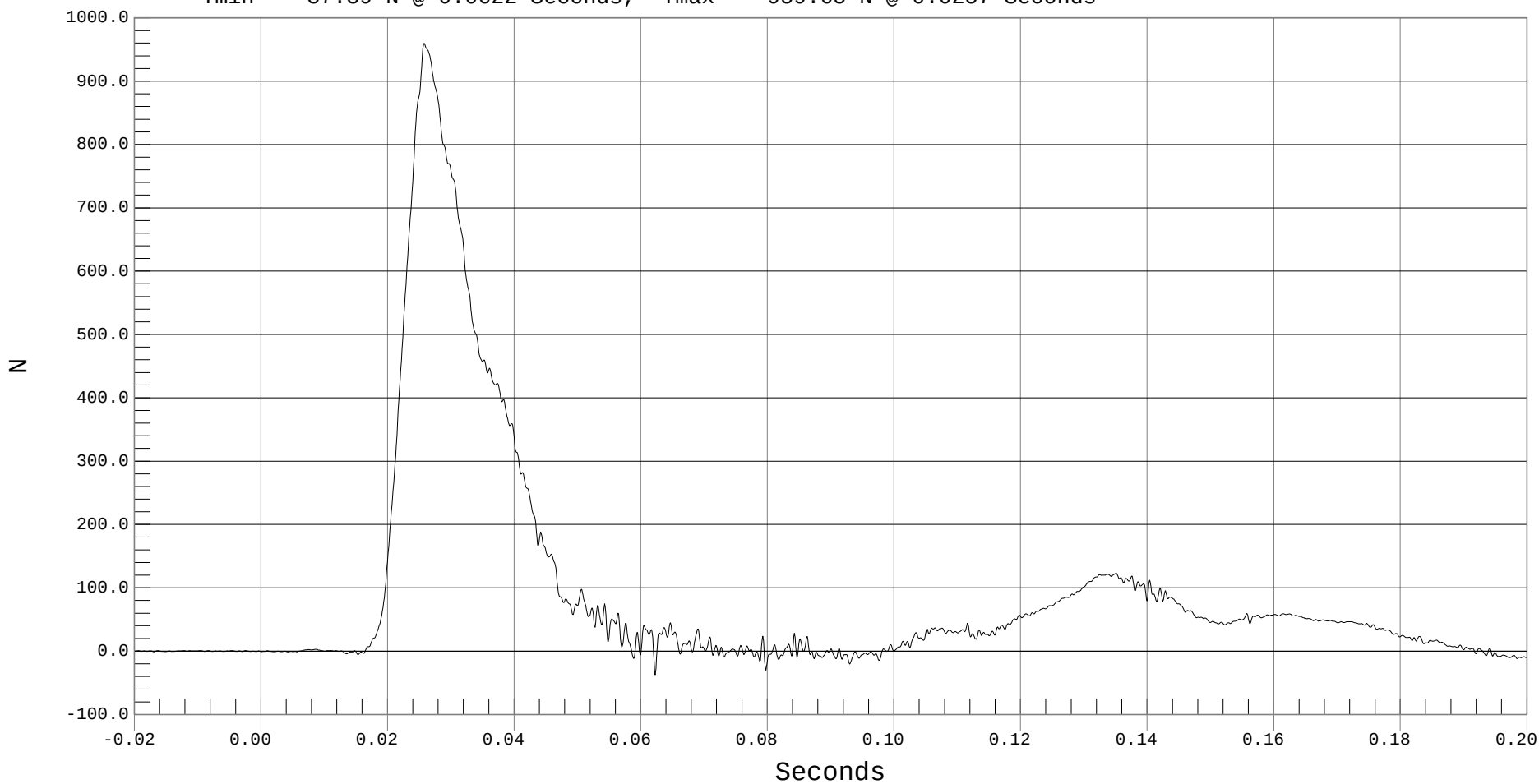
DRIVER ABDOMEN REAR FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER REAR ABDOMEN FORCE, B01102FF.F43

Ymin = -37.39 N @ 0.0622 Seconds, Ymax = 959.65 N @ 0.0257 Seconds





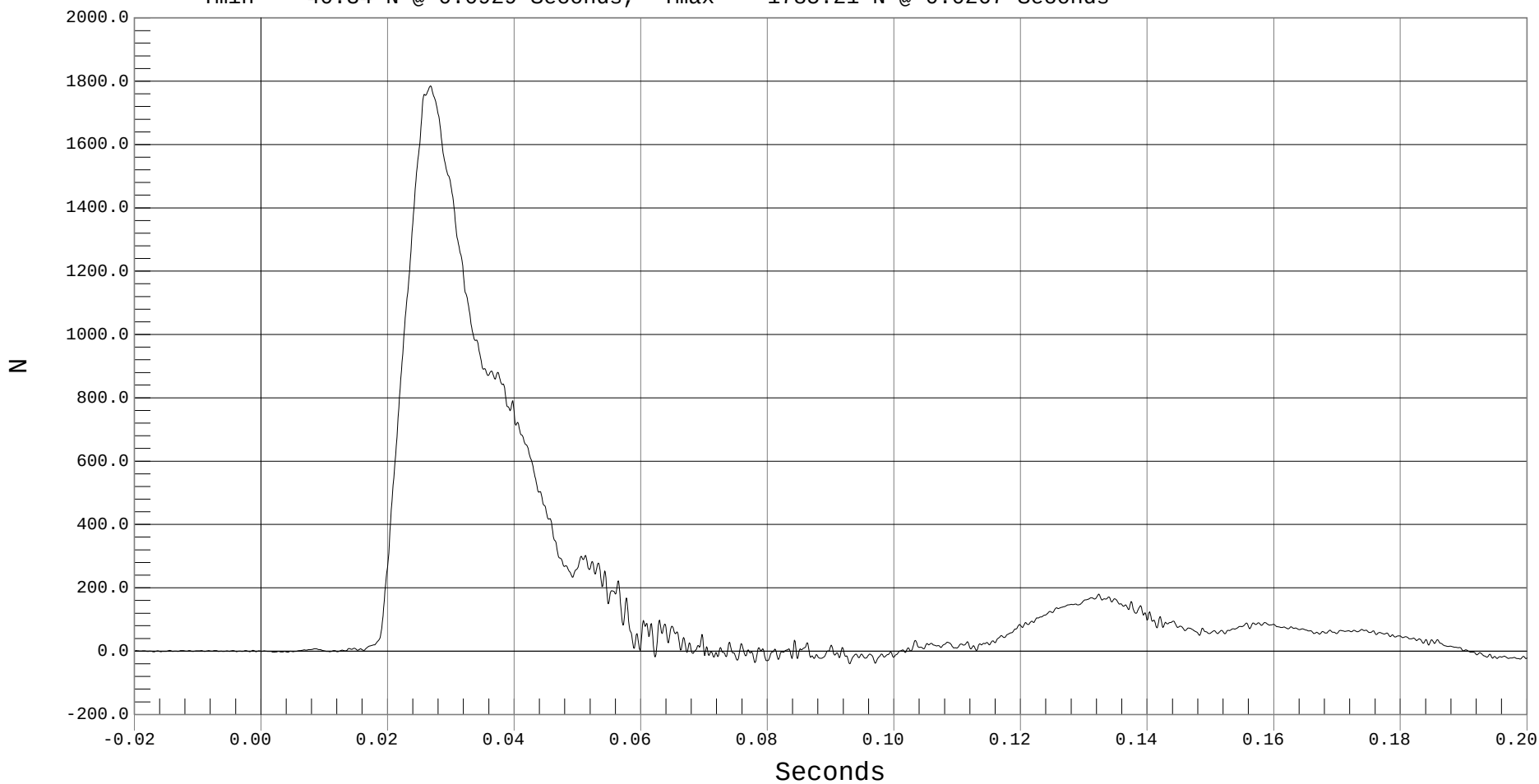
DRIVER SUMMED ABDOMEN FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER SUMMED ABDOMEN FORCE, B01102FU.F41

Ymin = -40.34 N @ 0.0929 Seconds, Ymax = 1785.21 N @ 0.0267 Seconds





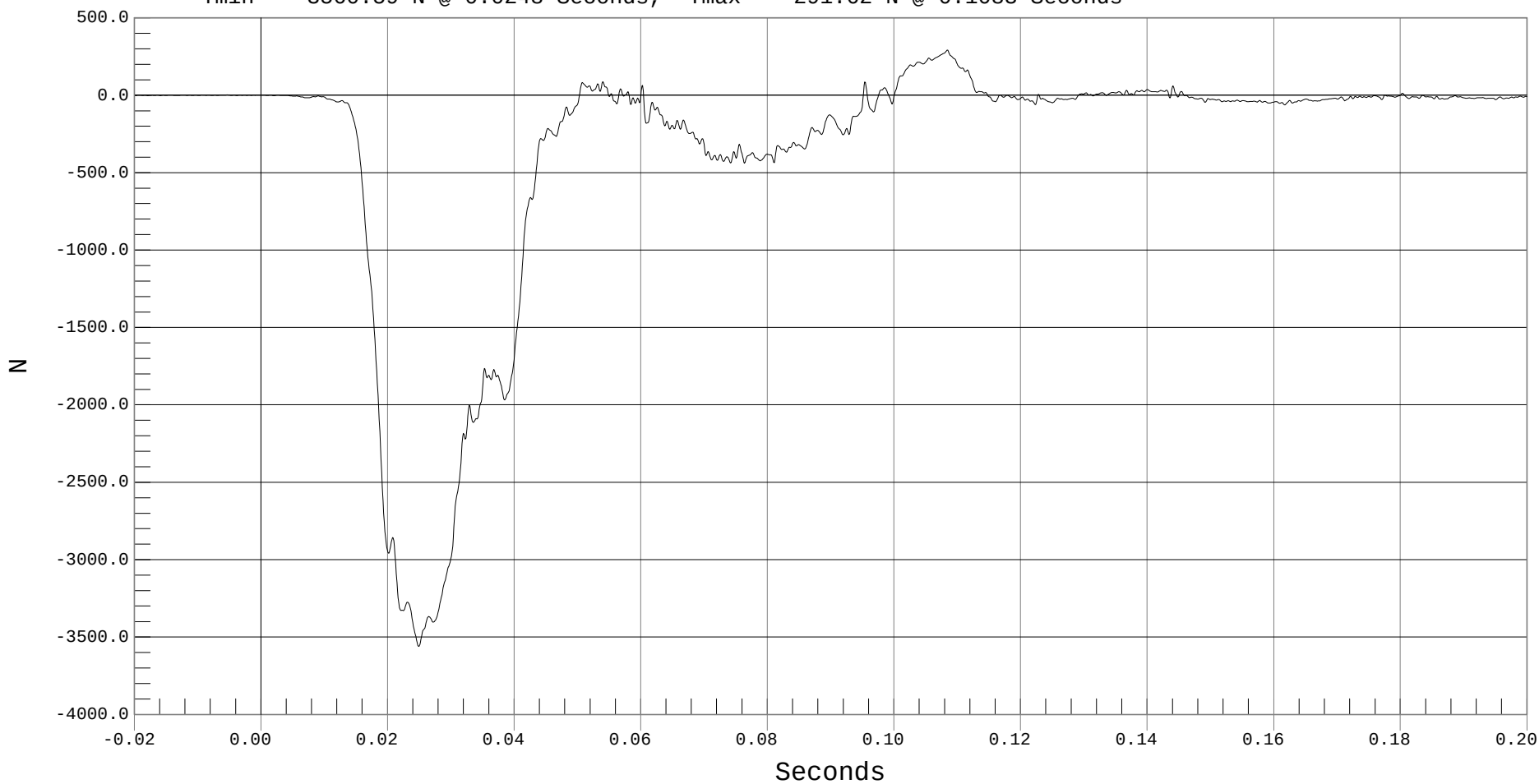
DRIVER PUBIC SYMPHYSIS FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER PUBIC SYMPHYSIS FORCE, B01102FF.F44

Ymin = -3560.59 N @ 0.0248 Seconds, Ymax = 291.62 N @ 0.1083 Seconds





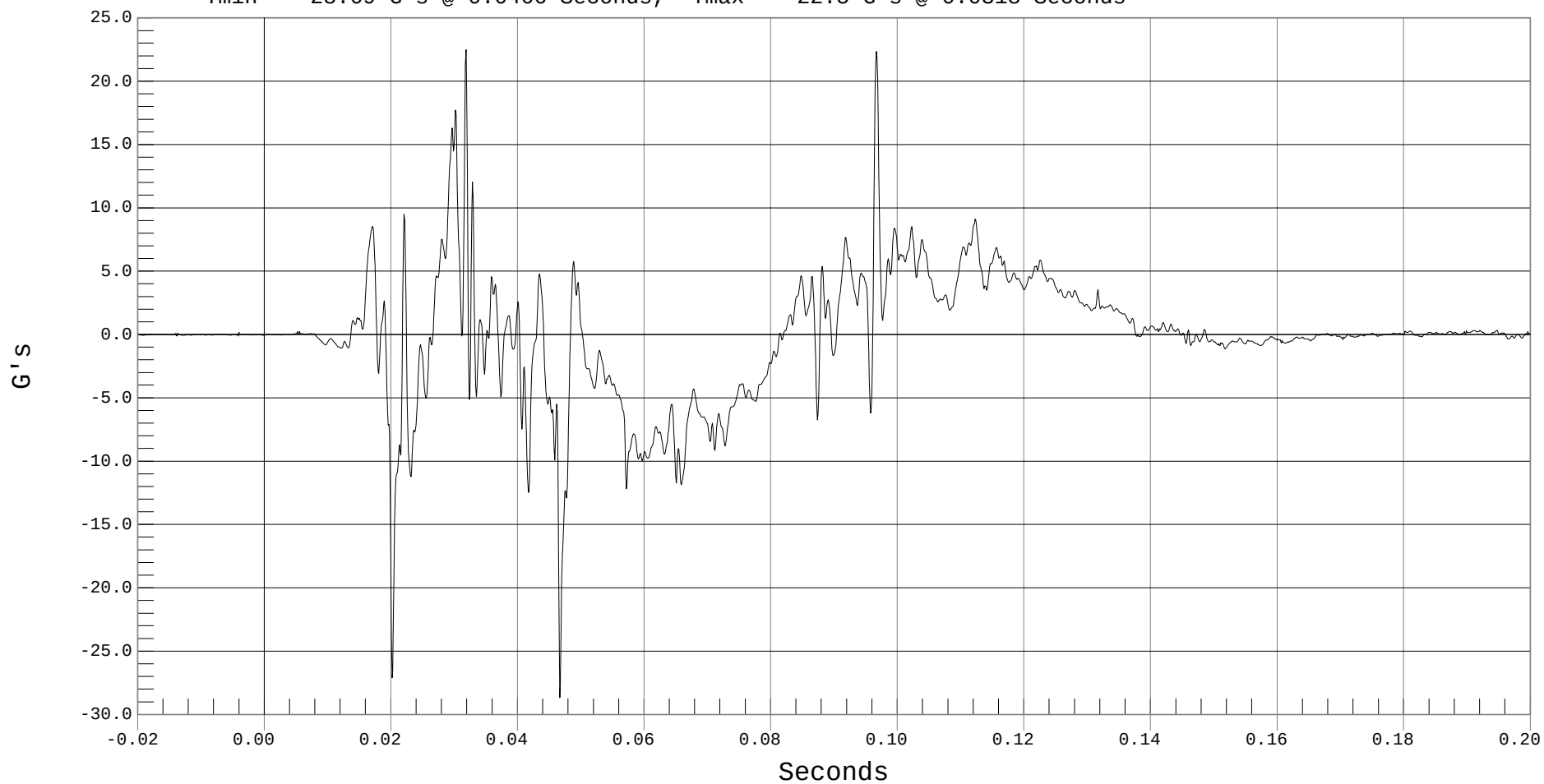
DRIVER PELVIS X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER PELVIS X, B01102AT.A45

Ymin = -28.69 G's @ 0.0466 Seconds, Ymax = 22.5 G's @ 0.0318 Seconds





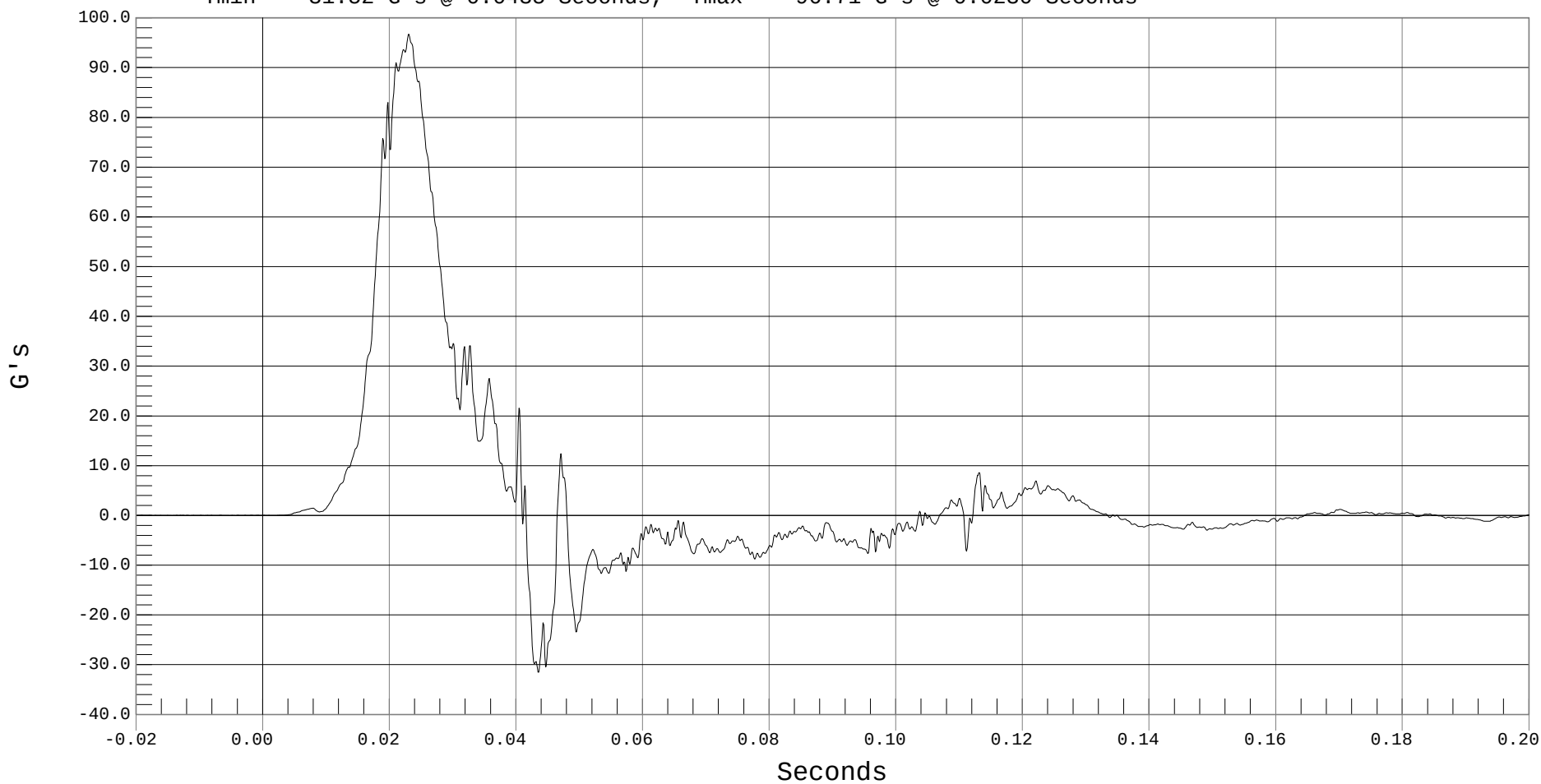
DRIVER PELVIS Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER PELVIS Y, B01102AT.A46

Ymin = -31.52 G's @ 0.0435 Seconds, Ymax = 96.71 G's @ 0.0230 Seconds





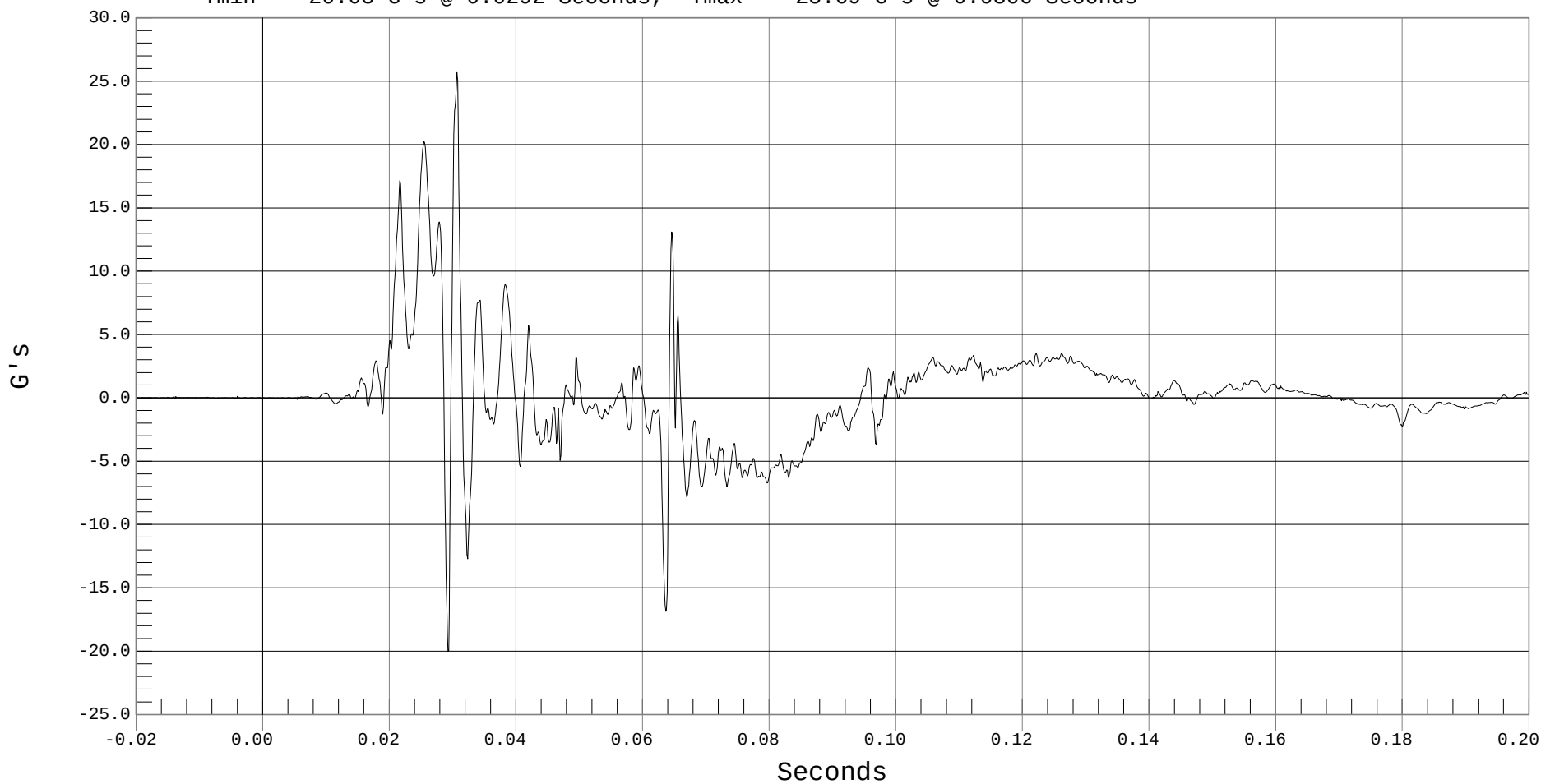
DRIVER PELVIS Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER PELVIS Z, B01102AT.A47

Ymin = -20.03 G's @ 0.0292 Seconds, Ymax = 25.69 G's @ 0.0306 Seconds





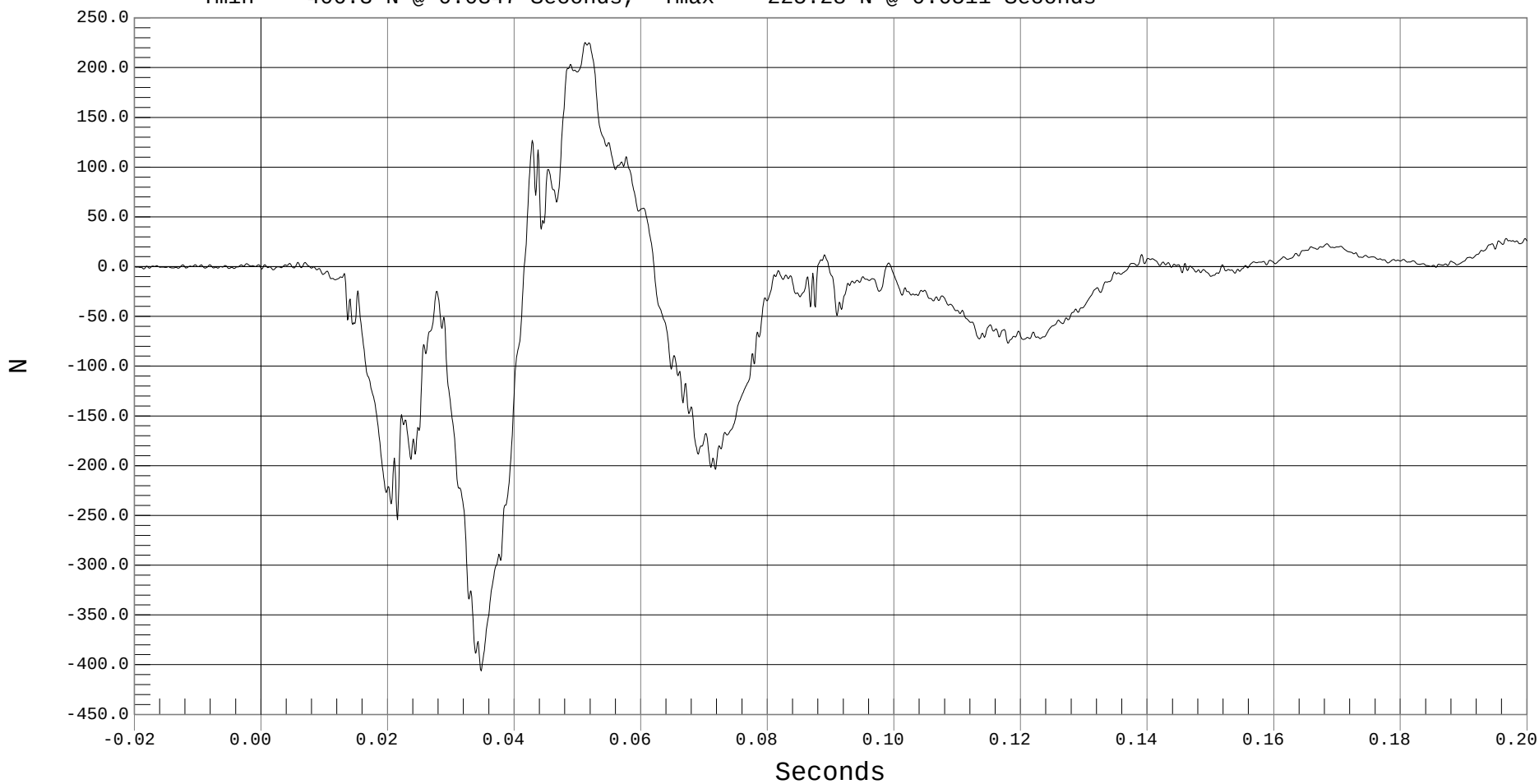
DRIVER LEFT FEMUR FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER LEFT FEMUR FORCE X, B01102FF.F54

Ymin = -406.3 N @ 0.0347 Seconds, Ymax = 225.28 N @ 0.0511 Seconds





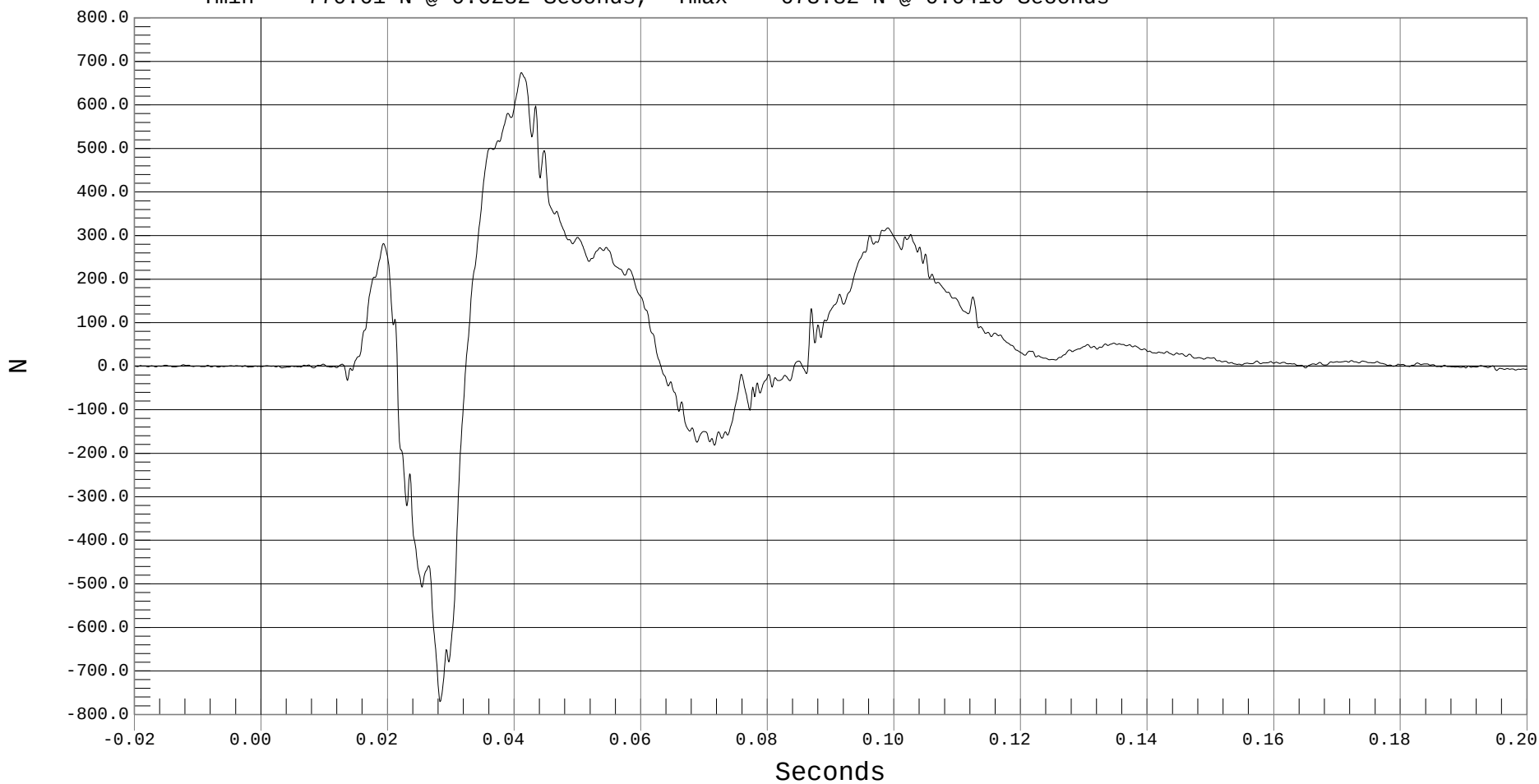
DRIVER LEFT FEMUR FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER LEFT FEMUR FORCE Y, B01102FF.F55

Ymin = -770.61 N @ 0.0282 Seconds, Ymax = 673.82 N @ 0.0410 Seconds





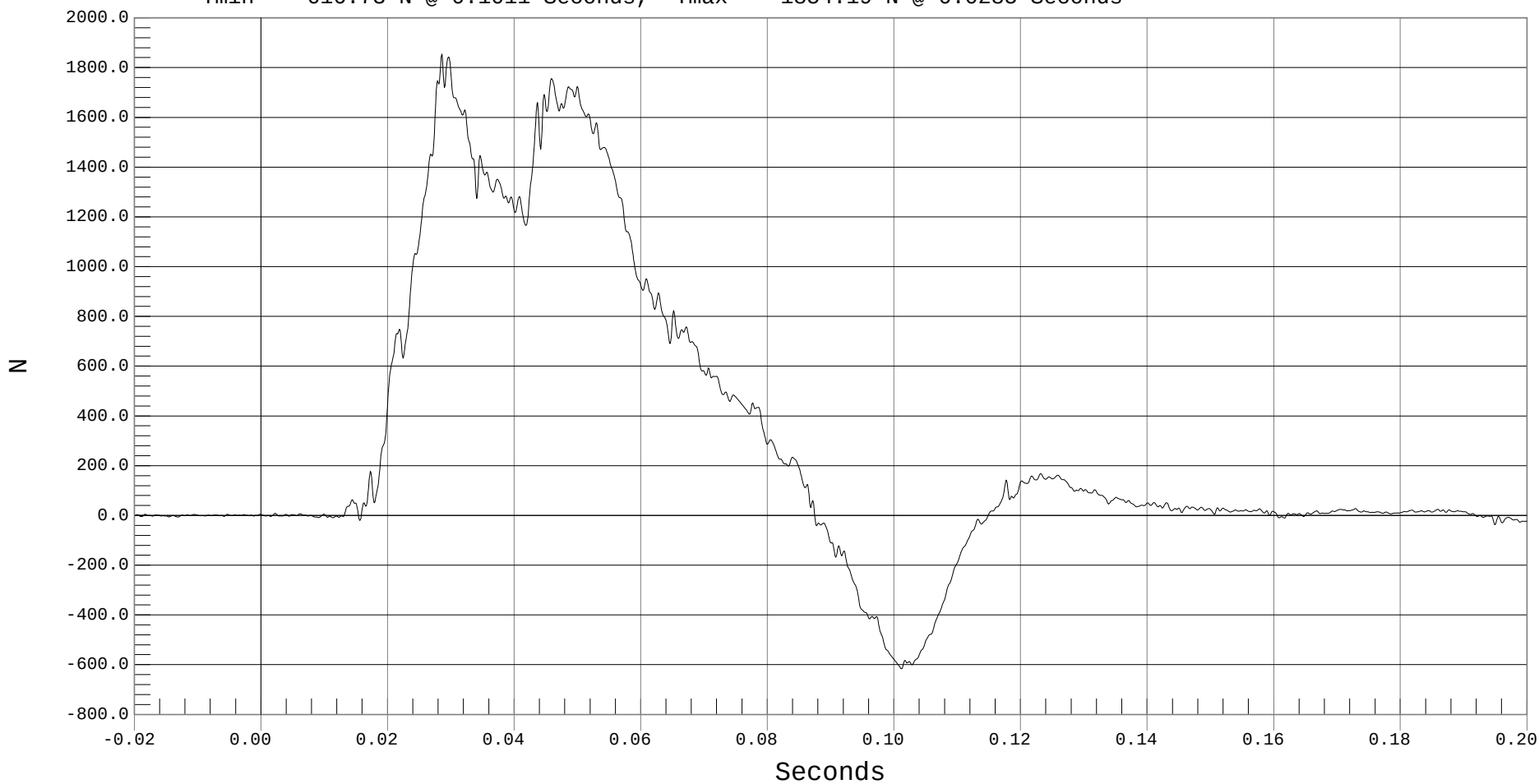
DRIVER LEFT FEMUR FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER LEFT FEMUR FORCE Z, B01102FF.F56

Ymin = -616.73 N @ 0.1011 Seconds, Ymax = 1854.19 N @ 0.0285 Seconds





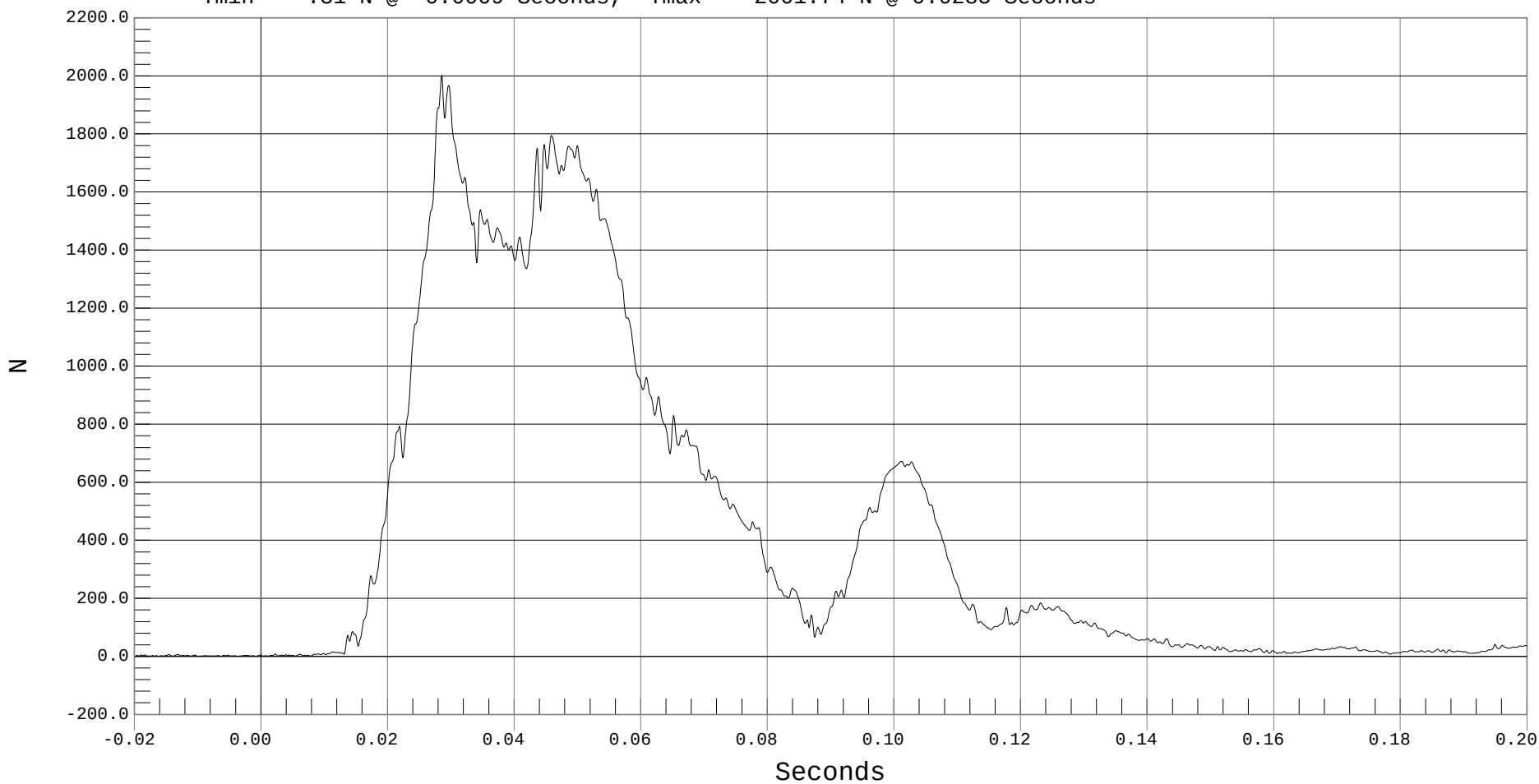
DRIVER LEFT FEMUR FORCE RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR FORCE RESULTANT, B01102FV.F54

Ymin = .31 N @ -0.0009 Seconds, Ymax = 2001.74 N @ 0.0285 Seconds





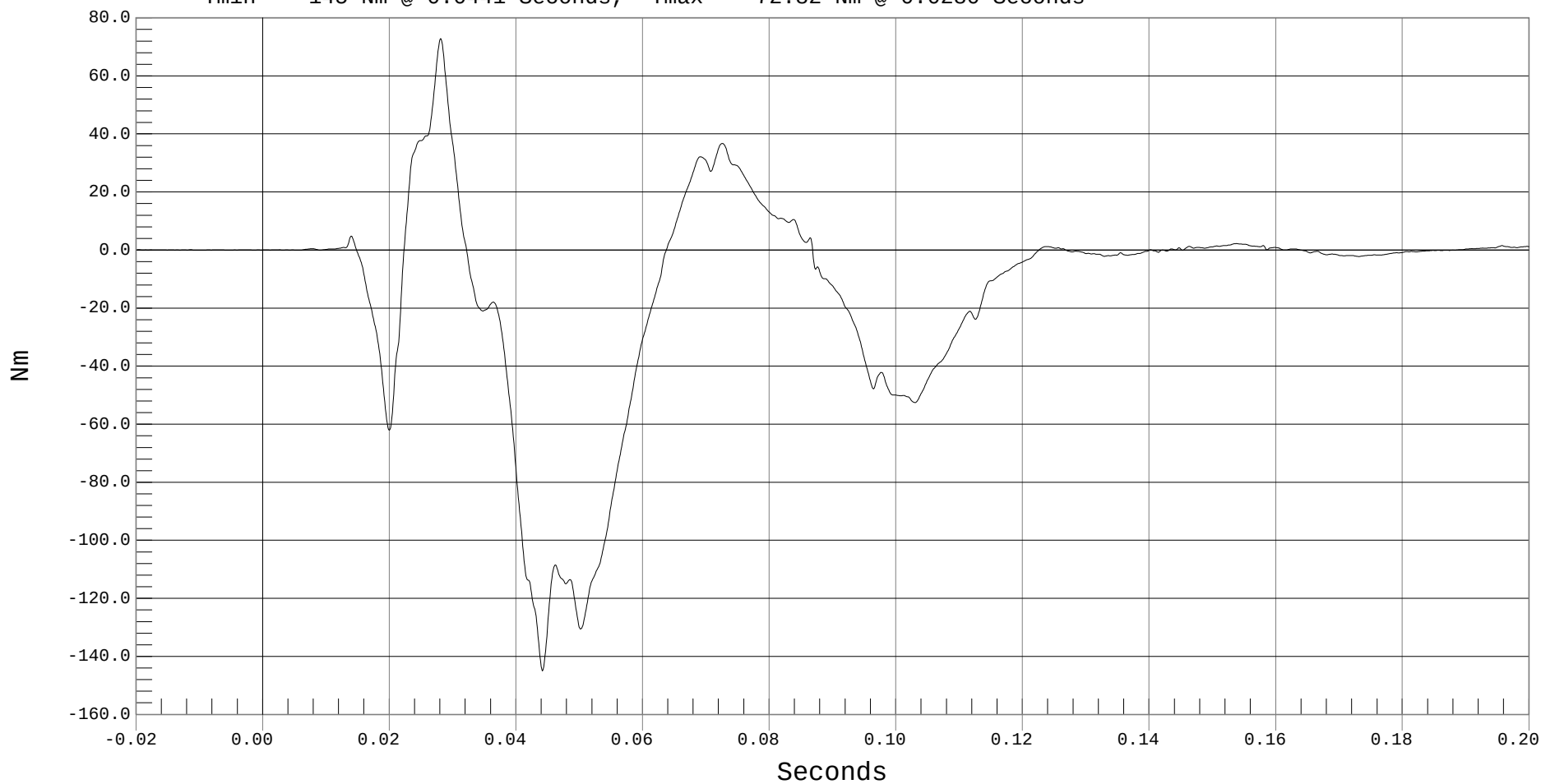
DRIVER LEFT FEMUR MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER LEFT FEMUR MOMENT X, B01102MF.M57

Ymin = -145 Nm @ 0.0441 Seconds, Ymax = 72.82 Nm @ 0.0280 Seconds





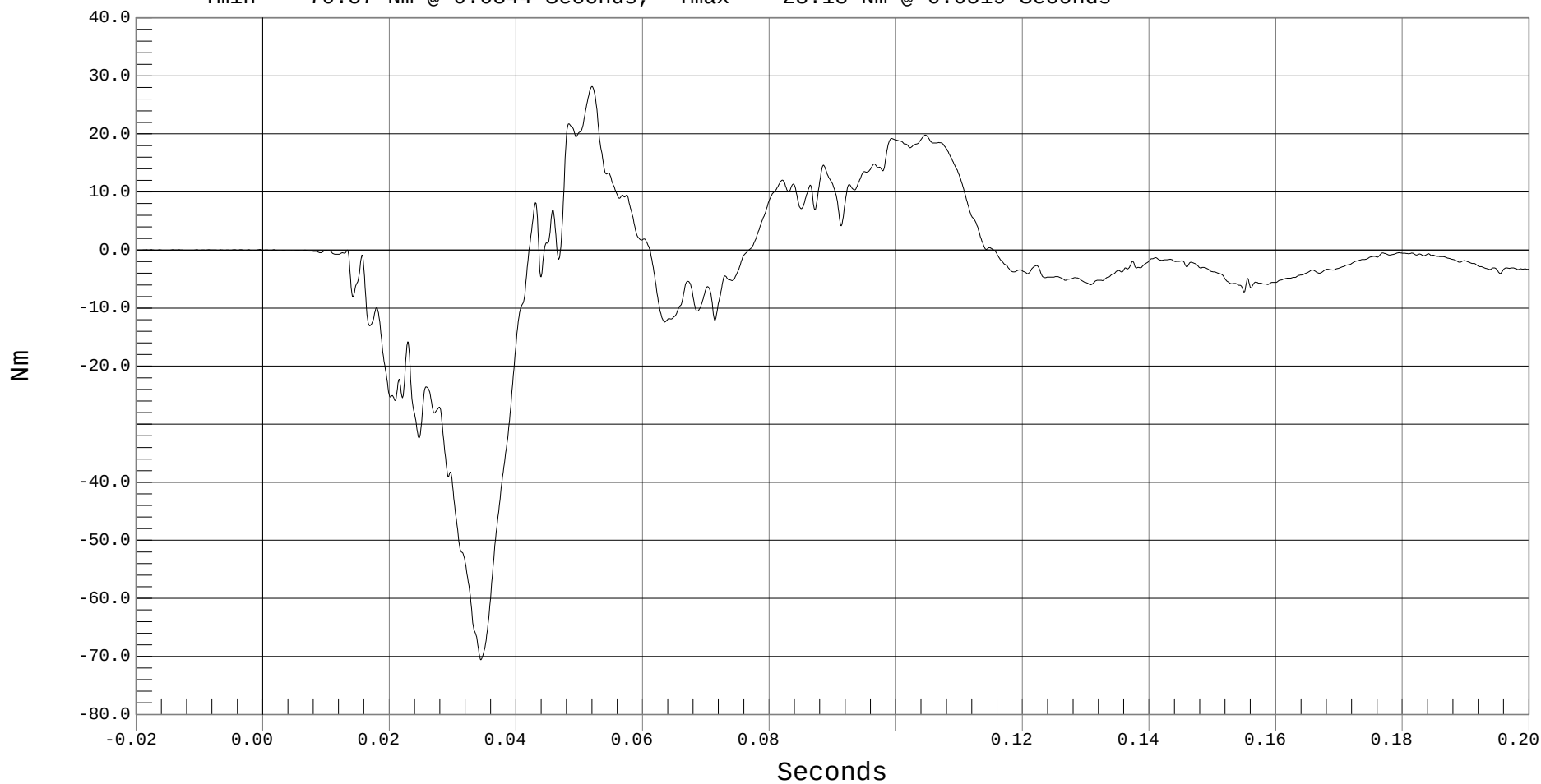
DRIVER LEFT FEMUR MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER LEFT FEMUR MOMENT Y, B01102MF.M58

Ymin = -70.57 Nm @ 0.0344 Seconds, Ymax = 28.18 Nm @ 0.0519 Seconds





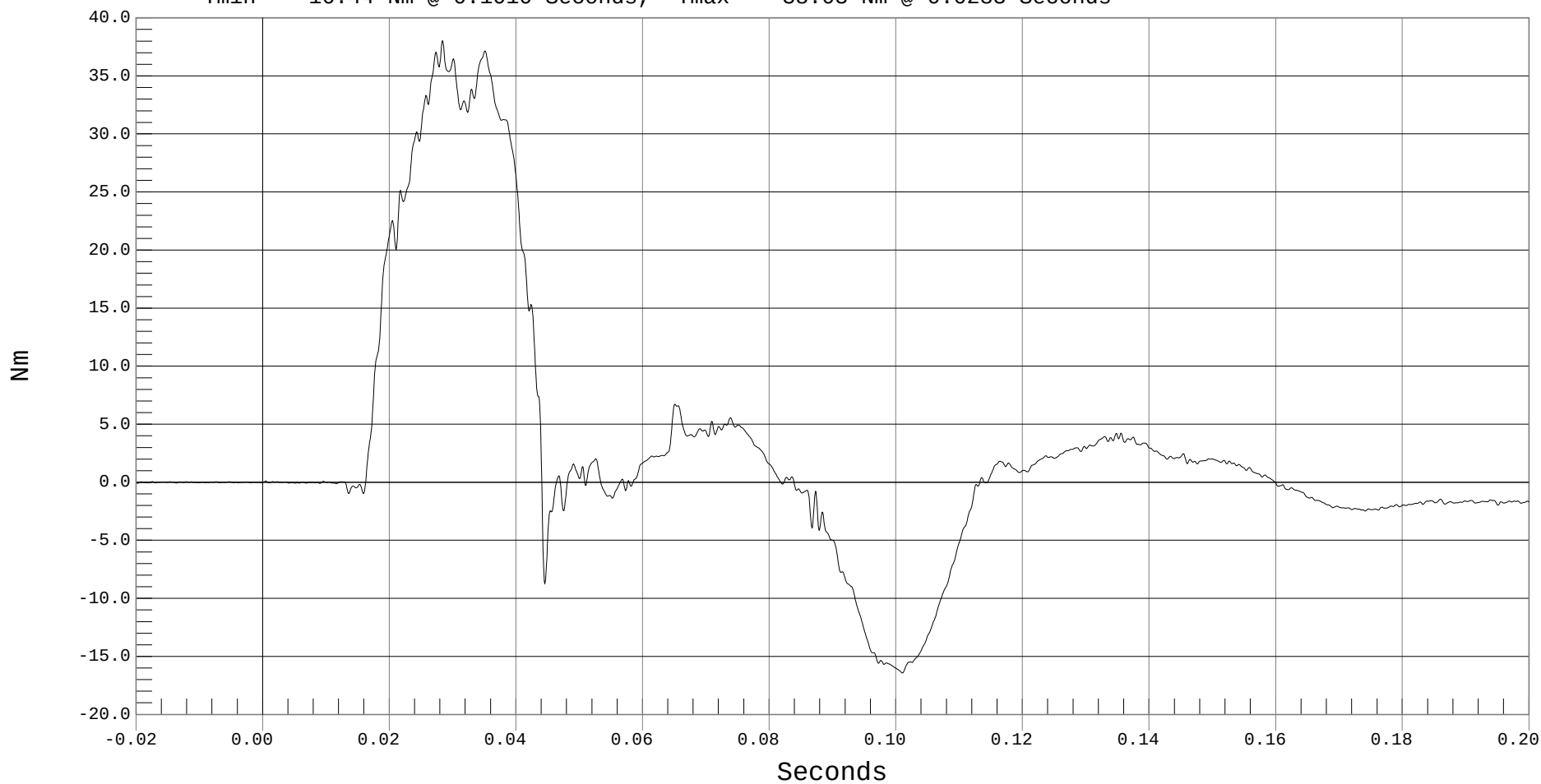
DRIVER LEFT FEMUR MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR MOMENT Z, B01102MF.M59

Ymin = -16.44 Nm @ 0.1010 Seconds, Ymax = 38.03 Nm @ 0.0283 Seconds





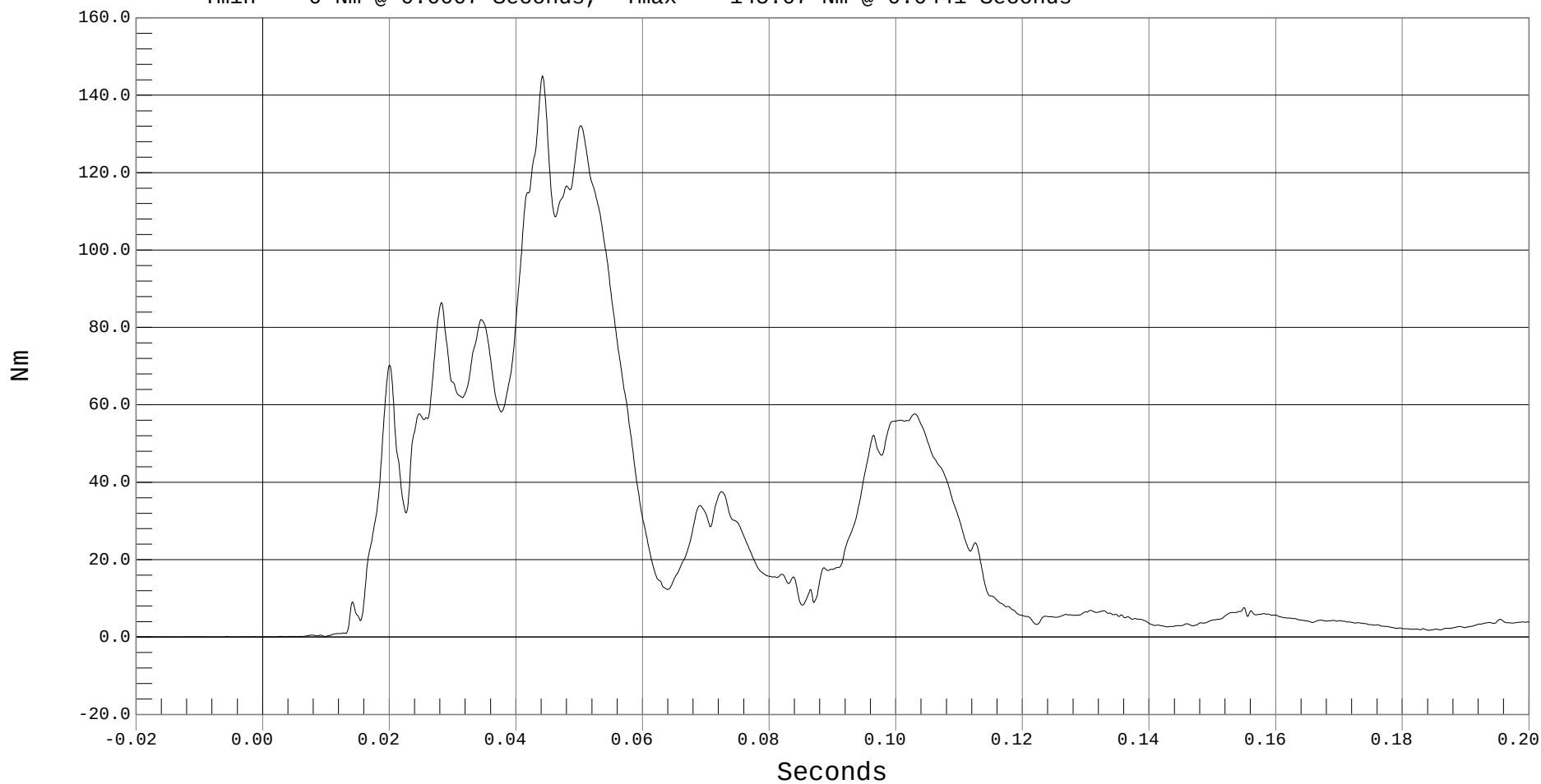
DRIVER LEFT FEMUR MOMENT RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER LEFT FEMUR MOMENT RESULTANT, B01102MV.M57

Ymin = 0 Nm @ 0.0007 Seconds, Ymax = 145.07 Nm @ 0.0441 Seconds





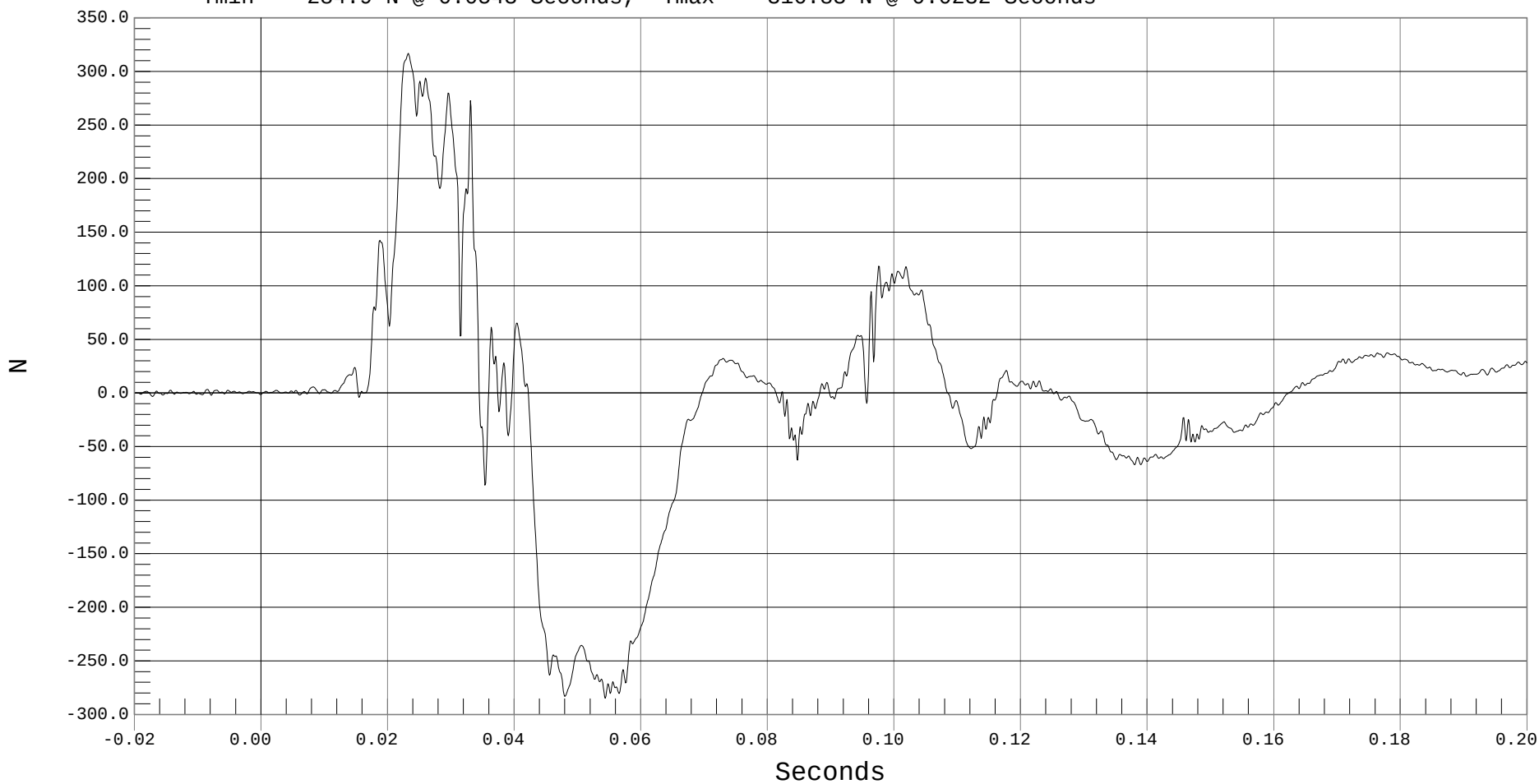
DRIVER RIGHT FEMUR FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR FORCE X, B01102FF.F48

Ymin = -284.9 N @ 0.0543 Seconds, Ymax = 316.83 N @ 0.0232 Seconds





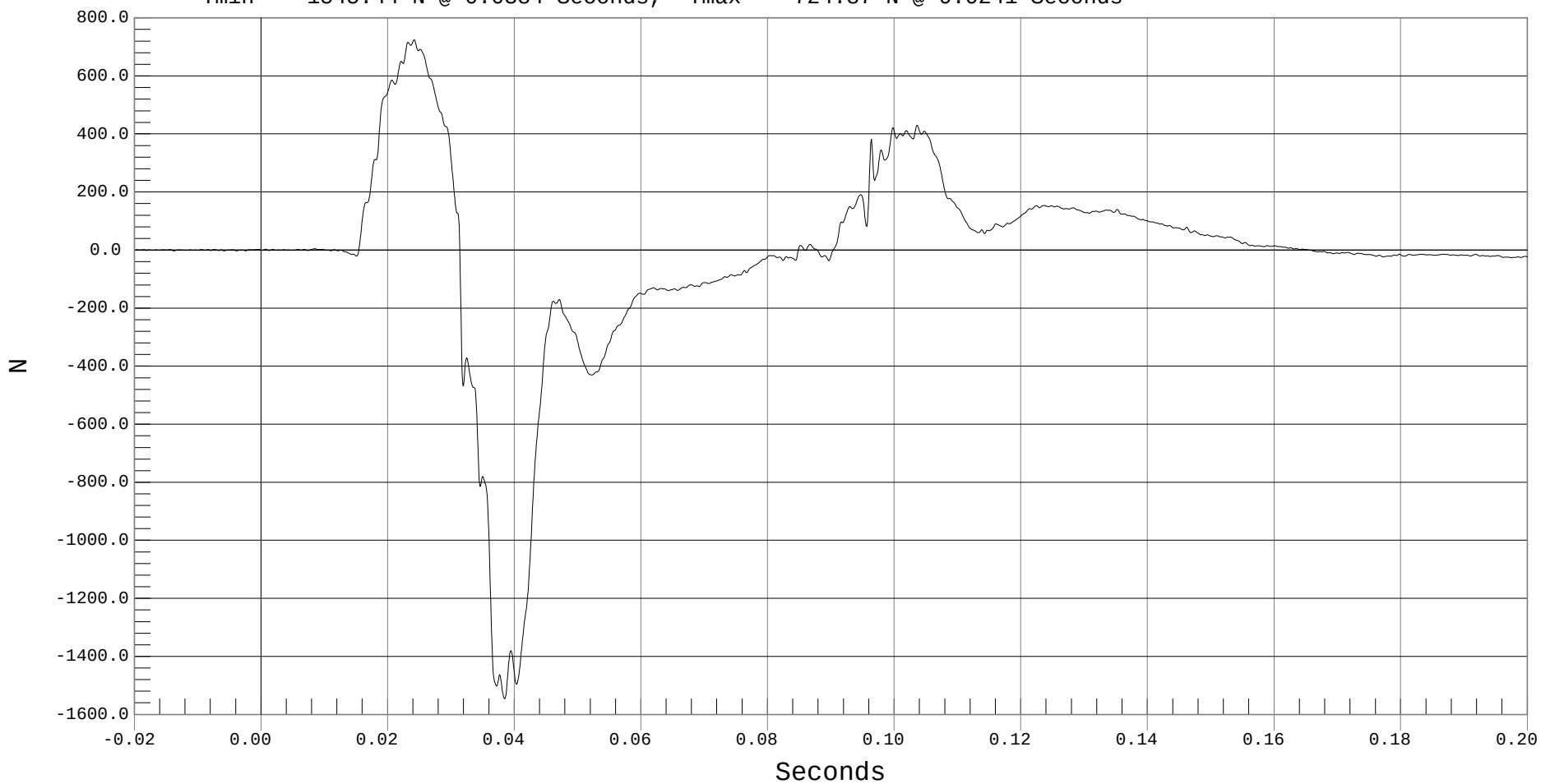
DRIVER RIGHT FEMUR FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR FORCE Y, B01102FF.F49

Ymin = -1545.44 N @ 0.0384 Seconds, Ymax = 724.87 N @ 0.0241 Seconds





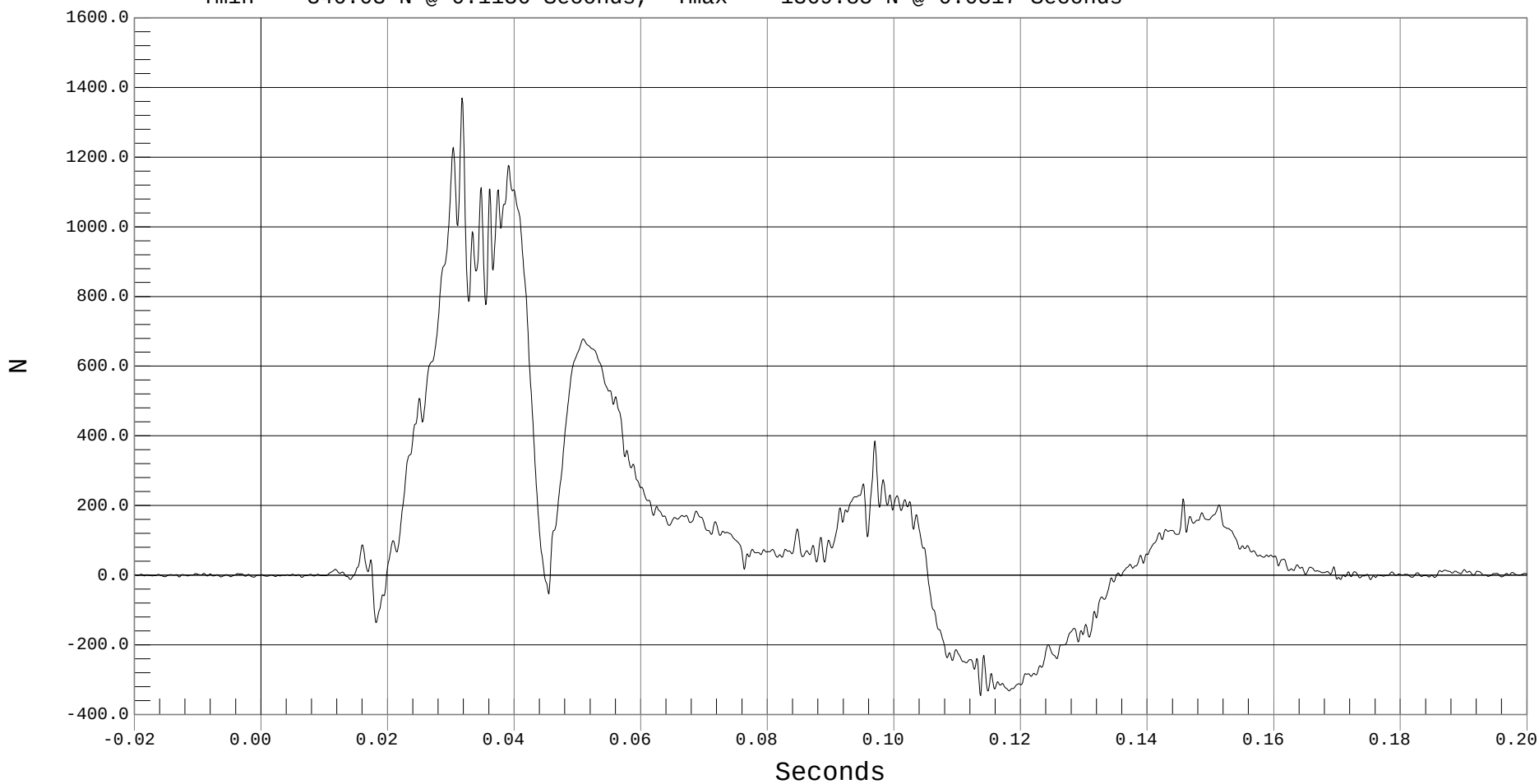
DRIVER RIGHT FEMUR FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR FORCE Z, B01102FF.F50

Ymin = -346.03 N @ 0.1136 Seconds, Ymax = 1369.85 N @ 0.0317 Seconds





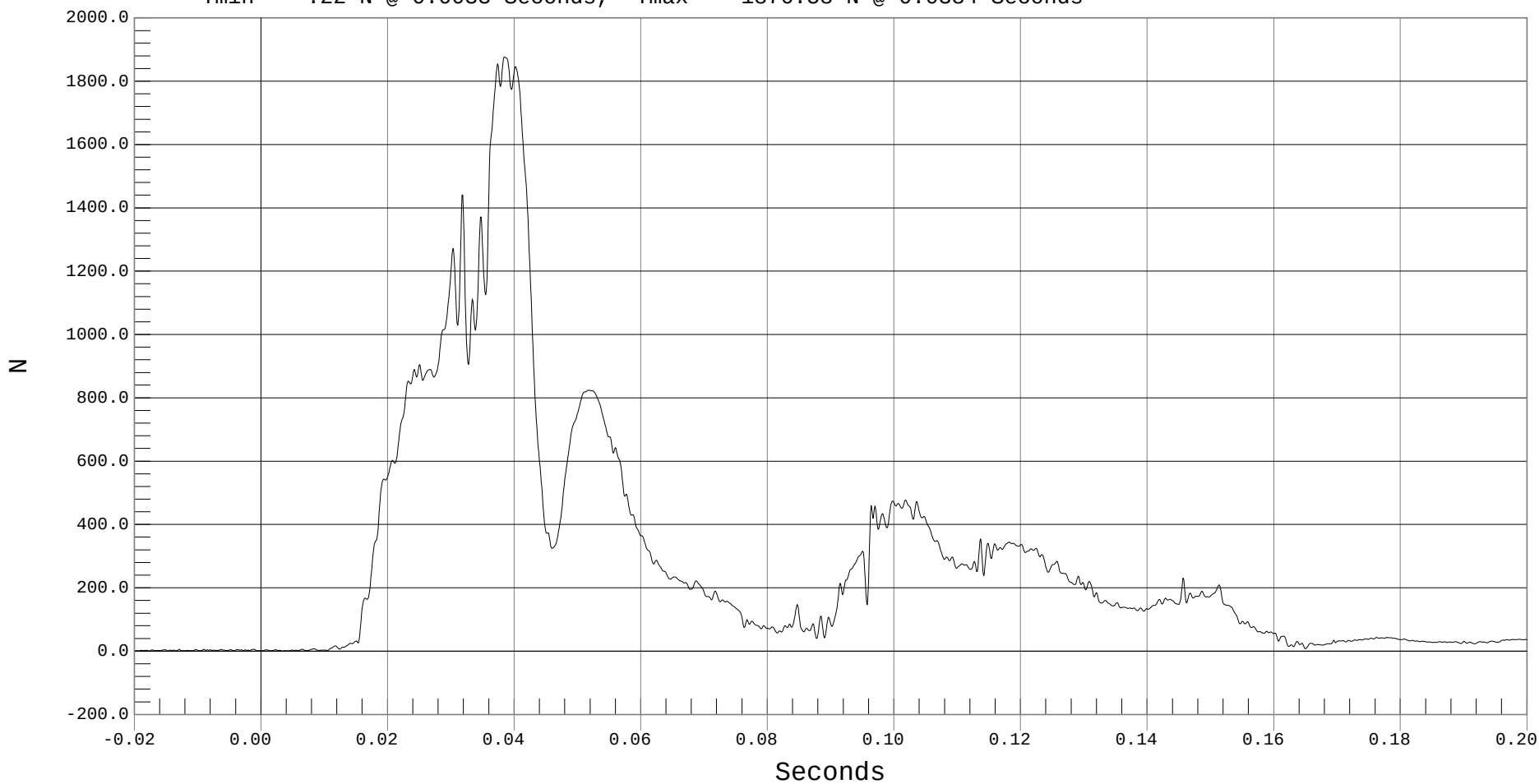
DRIVER RIGHT FEMUR FORCE RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR FORCE RESULTANT, B01102FV.F48

Ymin = .22 N @ 0.0033 Seconds, Ymax = 1876.58 N @ 0.0384 Seconds





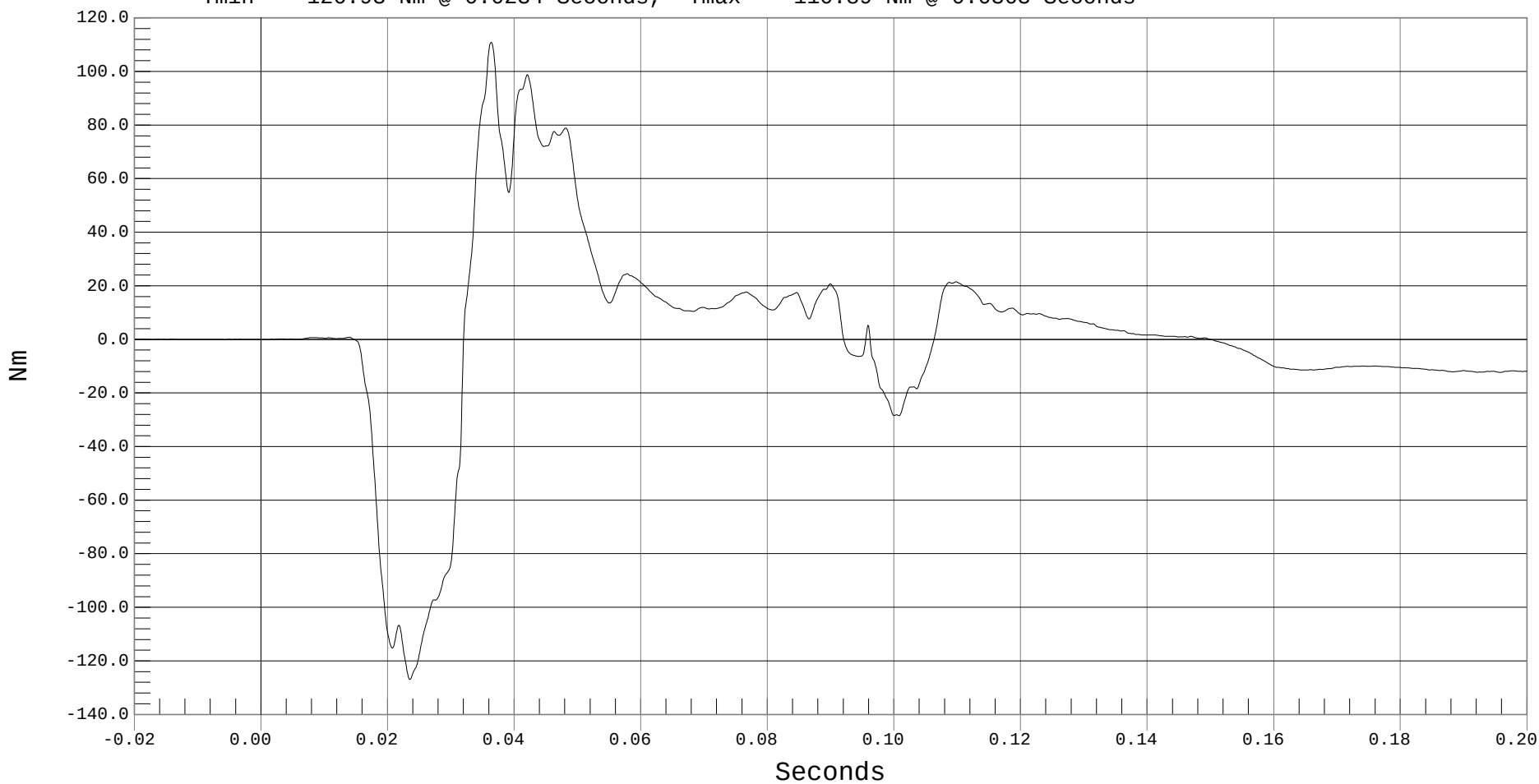
DRIVER RIGHT FEMUR MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER RIGHT FEMUR MOMENT X, B01102MF.M51

Ymin = -126.93 Nm @ 0.0234 Seconds, Ymax = 110.89 Nm @ 0.0363 Seconds





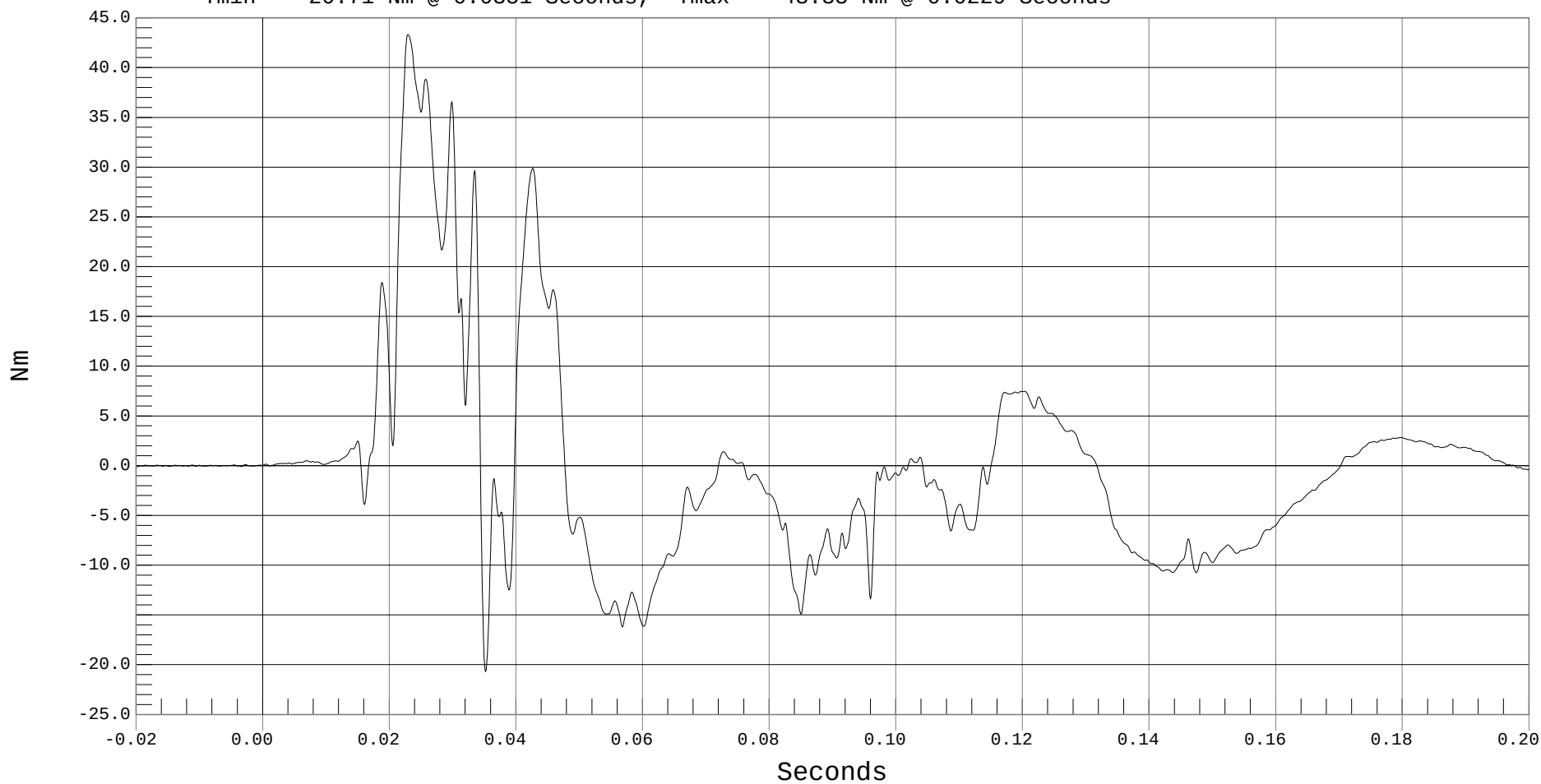
DRIVER RIGHT FEMUR MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 DRIVER RIGHT FEMUR MOMENT Y, B01102MF.M52

Ymin = -20.71 Nm @ 0.0351 Seconds, Ymax = 43.33 Nm @ 0.0229 Seconds





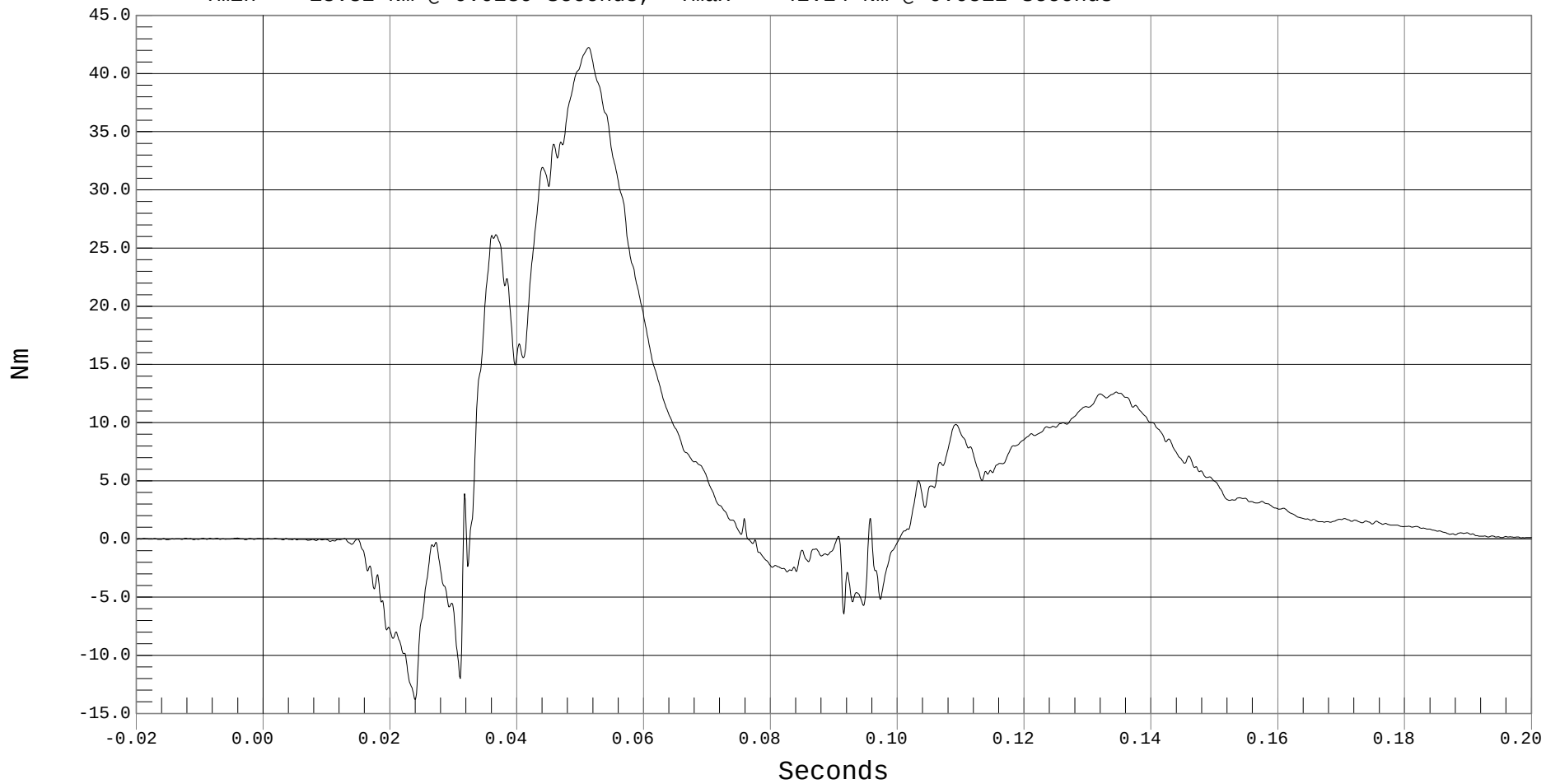
DRIVER RIGHT FEMUR MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR MOMENT Z, B01102MF.M53

Ymin = -13.82 Nm @ 0.0239 Seconds, Ymax = 42.24 Nm @ 0.0512 Seconds





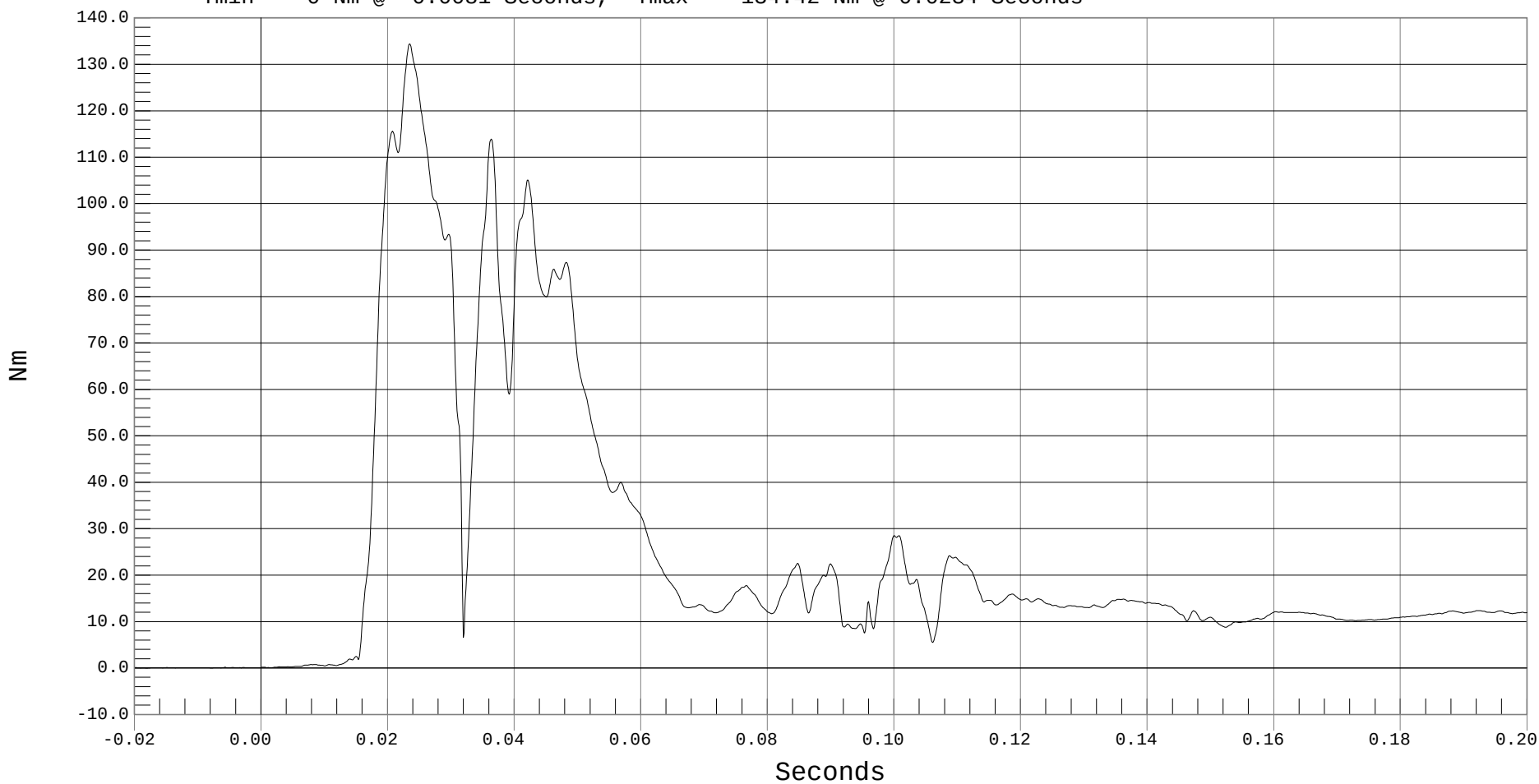
DRIVER RIGHT FEMUR MOMENT RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR MOMENT RESULTANT, B01102MV.M51

Ymin = 0 Nm @ -0.0081 Seconds, Ymax = 134.42 Nm @ 0.0234 Seconds





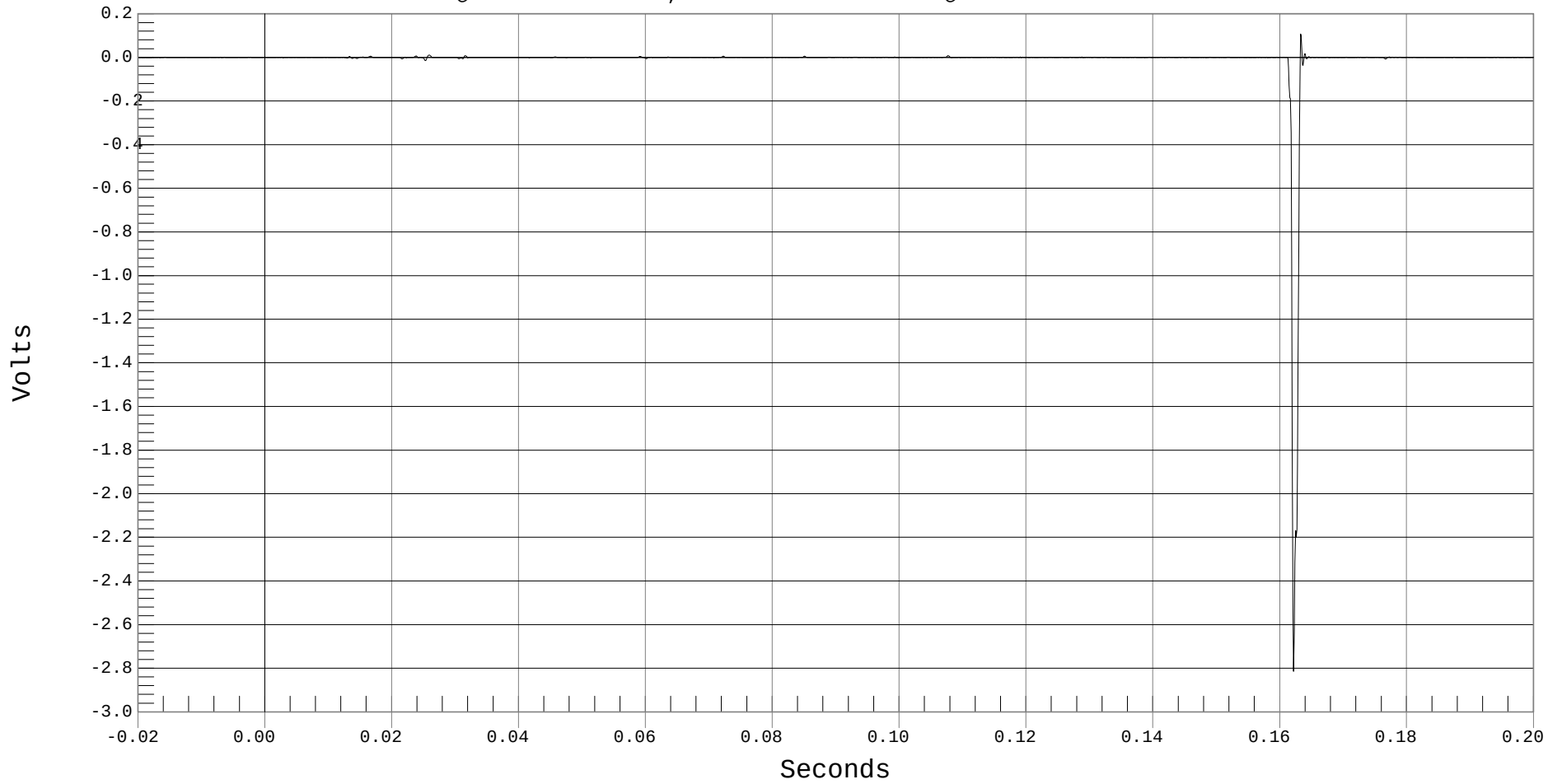
DRIVER HEAD CONTACT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD CONTACT, B011020T.071

Ymin = -2.81 Volts @ 0.1621 Seconds, Ymax = .11 Volts @ 0.1632 Seconds





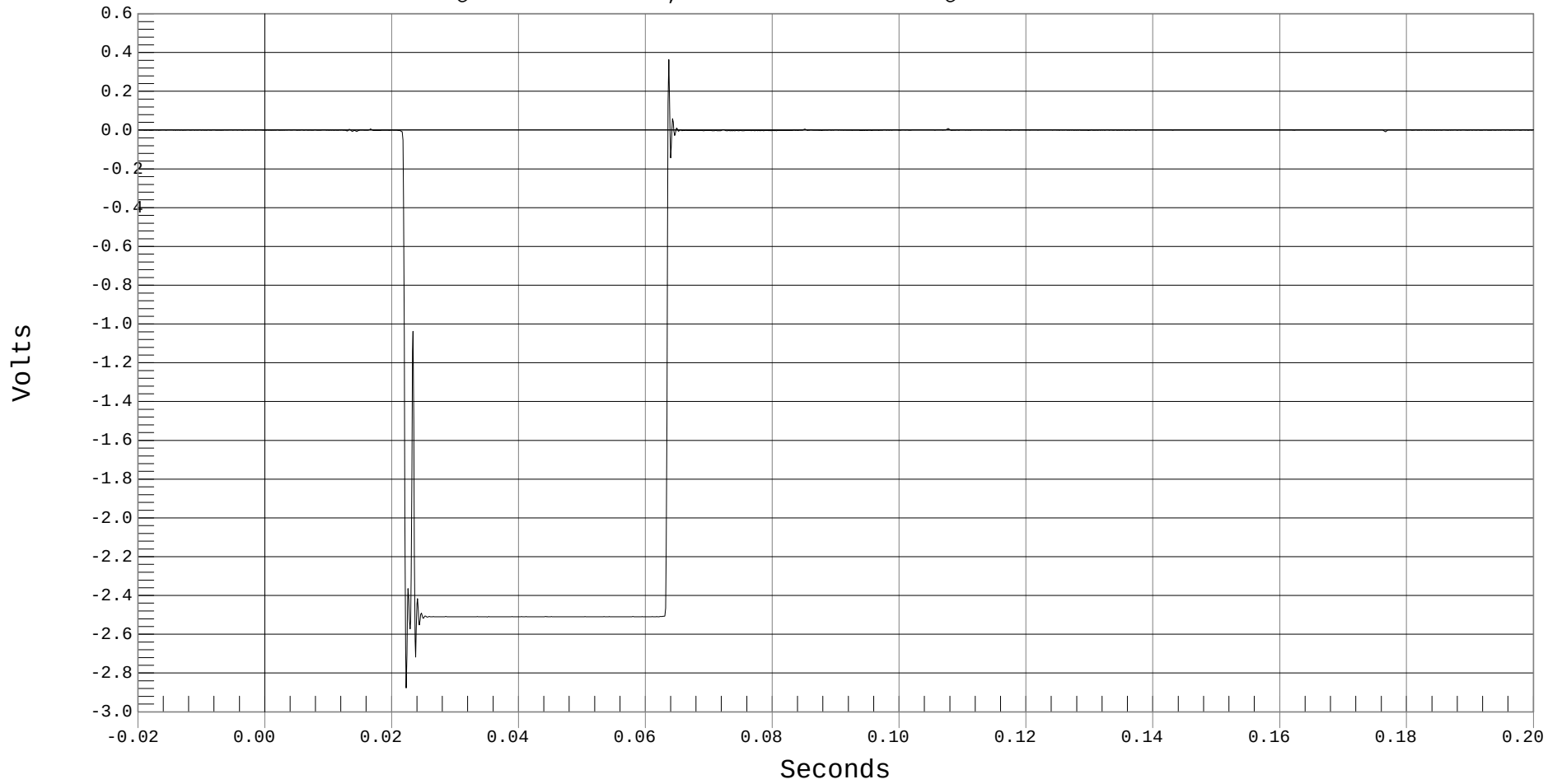
DRIVER RIB CONTACT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER RIB CONTACT, B011020T.073

Ymin = -2.88 Volts @ 0.0222 Seconds, Ymax = .36 Volts @ 0.0636 Seconds





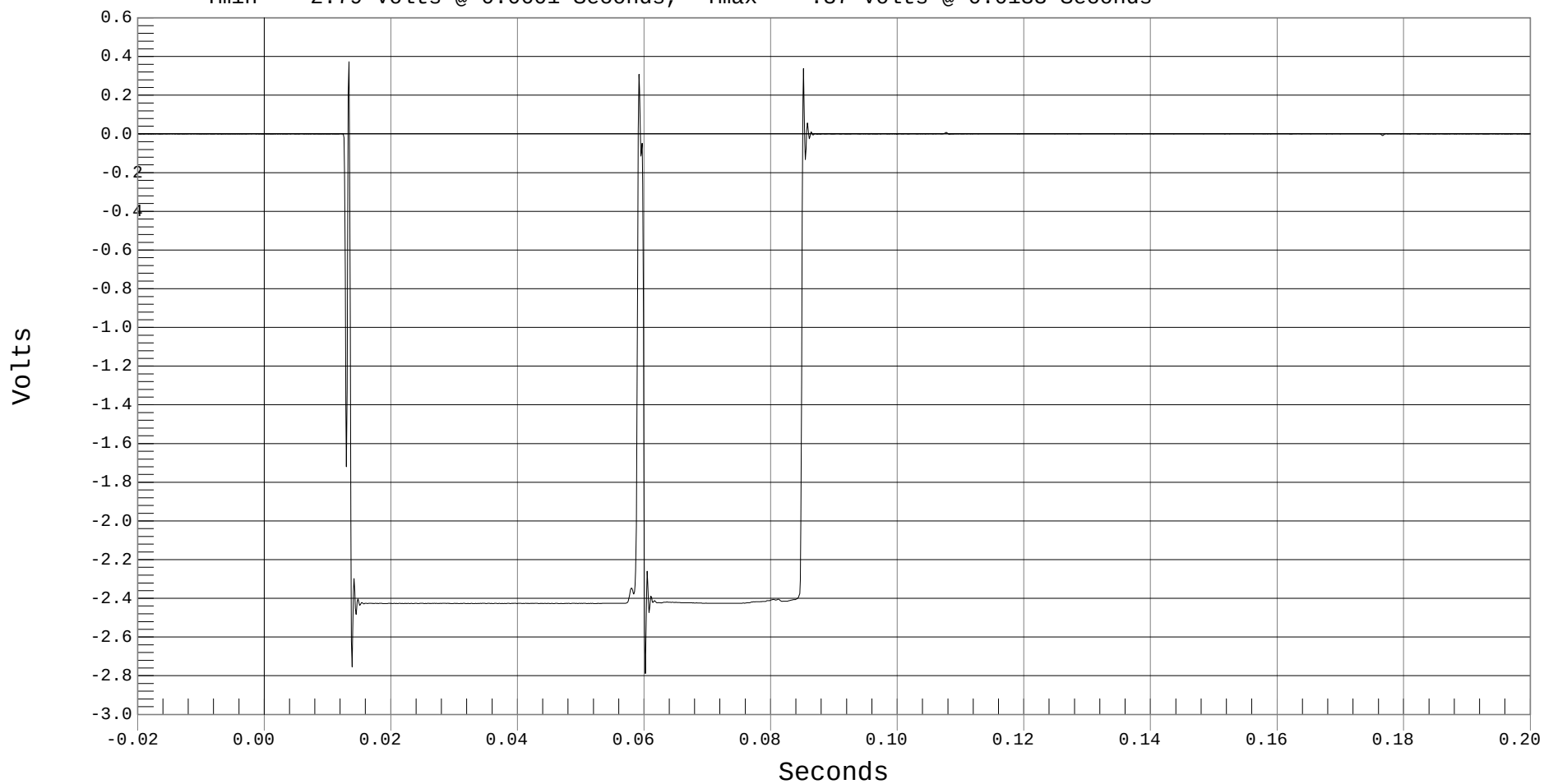
DRIVER PELVIS CONTACT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER PELVIS CONTACT, B011020T.074

Ymin = -2.79 Volts @ 0.0601 Seconds, Ymax = .37 Volts @ 0.0133 Seconds





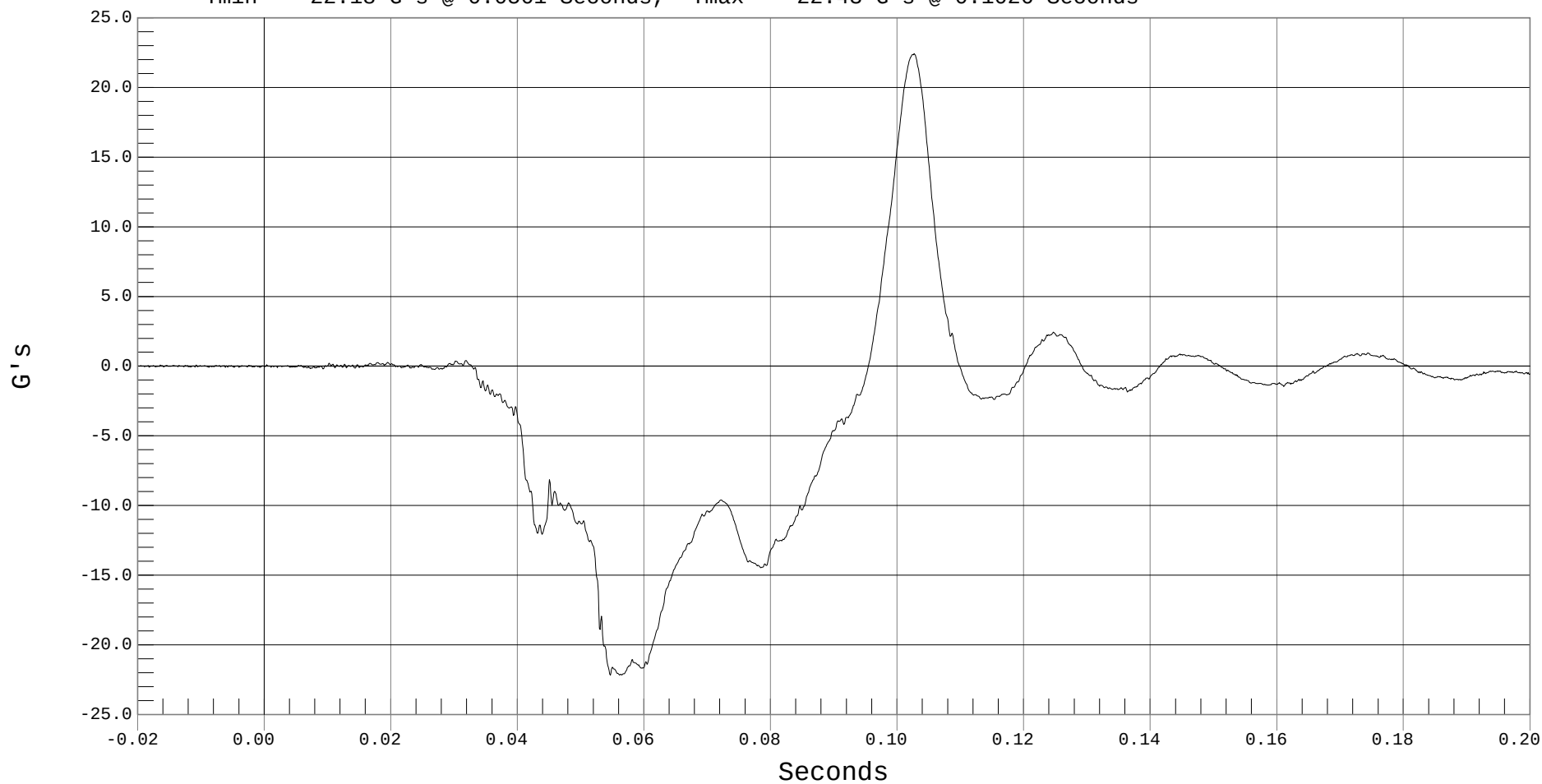
PASSENGER HEAD CG X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD CG X, B01102AT.A60

Ymin = -22.18 G's @ 0.0561 Seconds, Ymax = 22.43 G's @ 0.1026 Seconds





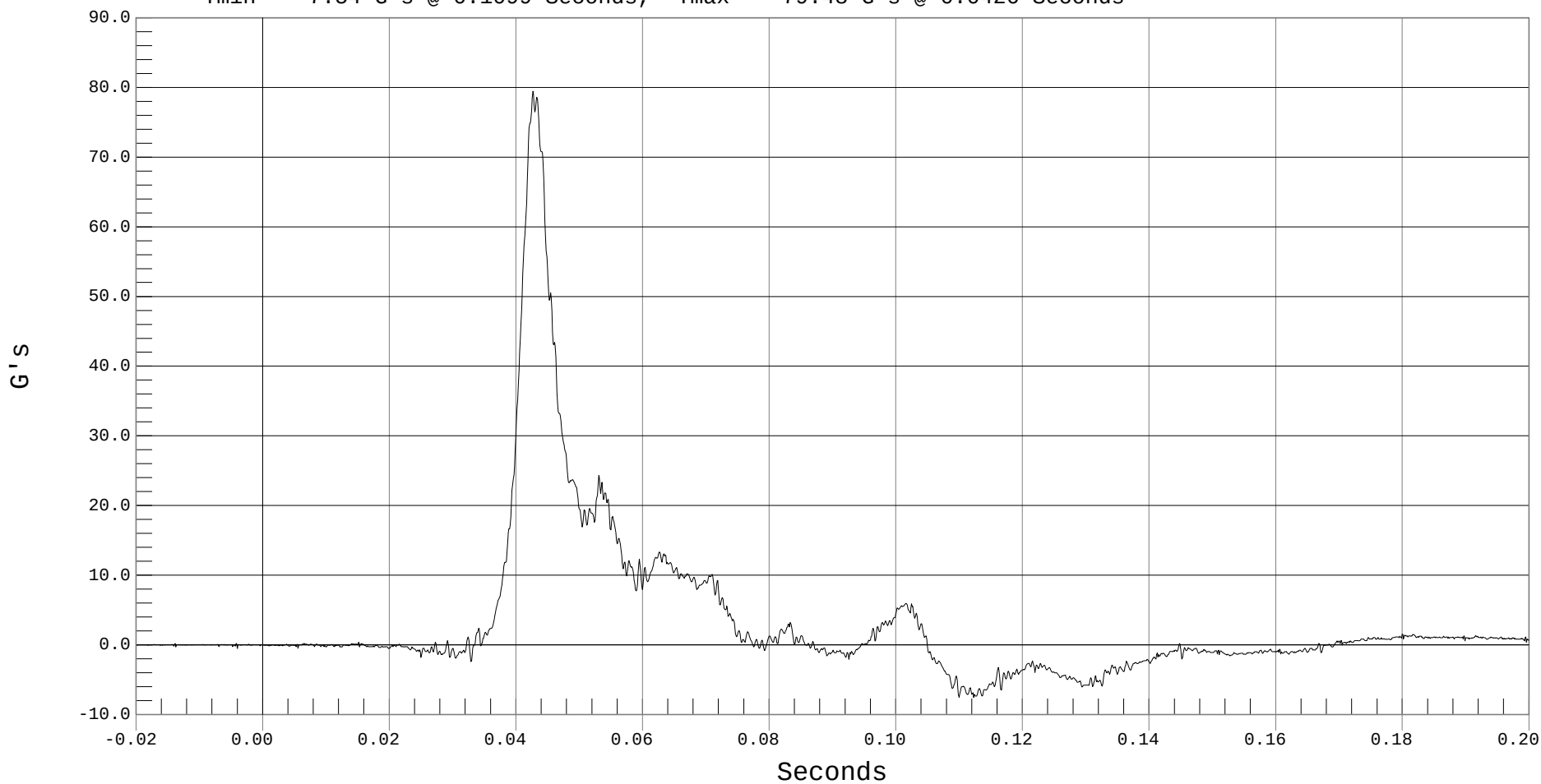
PASSENGER HEAD CG Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD CG Y, B01102AT.A61

Ymin = -7.54 G's @ 0.1099 Seconds, Ymax = 79.48 G's @ 0.0426 Seconds





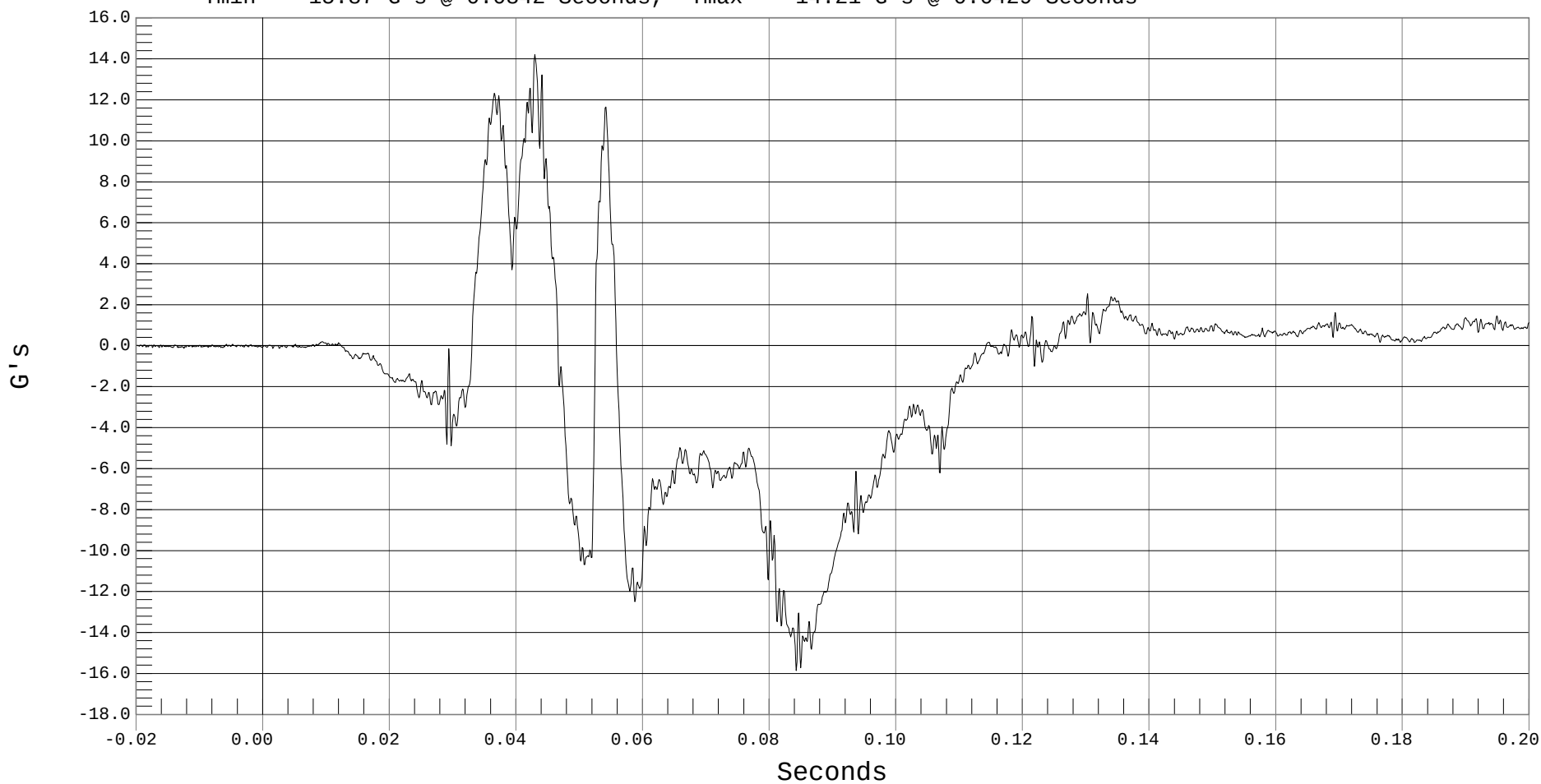
PASSENGER HEAD CG Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD CG Z, B01102AT.A62

Ymin = -15.87 G's @ 0.0842 Seconds, Ymax = 14.21 G's @ 0.0429 Seconds





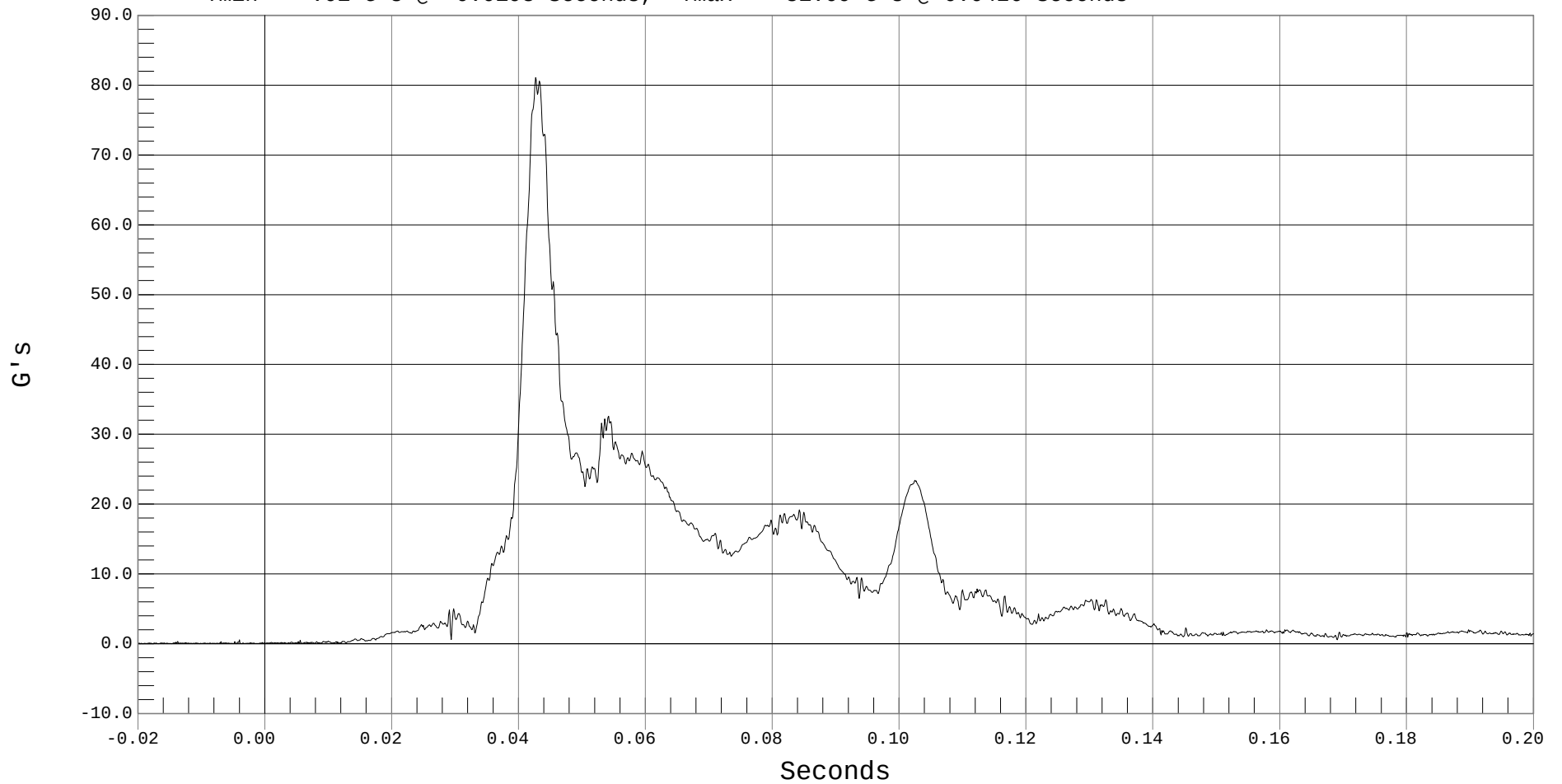
PASSENGER HEAD CG RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 PASSENGER HEAD RESULTANT, B01102AV.A60

Ymin = .01 G's @ -0.0193 Seconds, Ymax = 81.09 G's @ 0.0426 Seconds





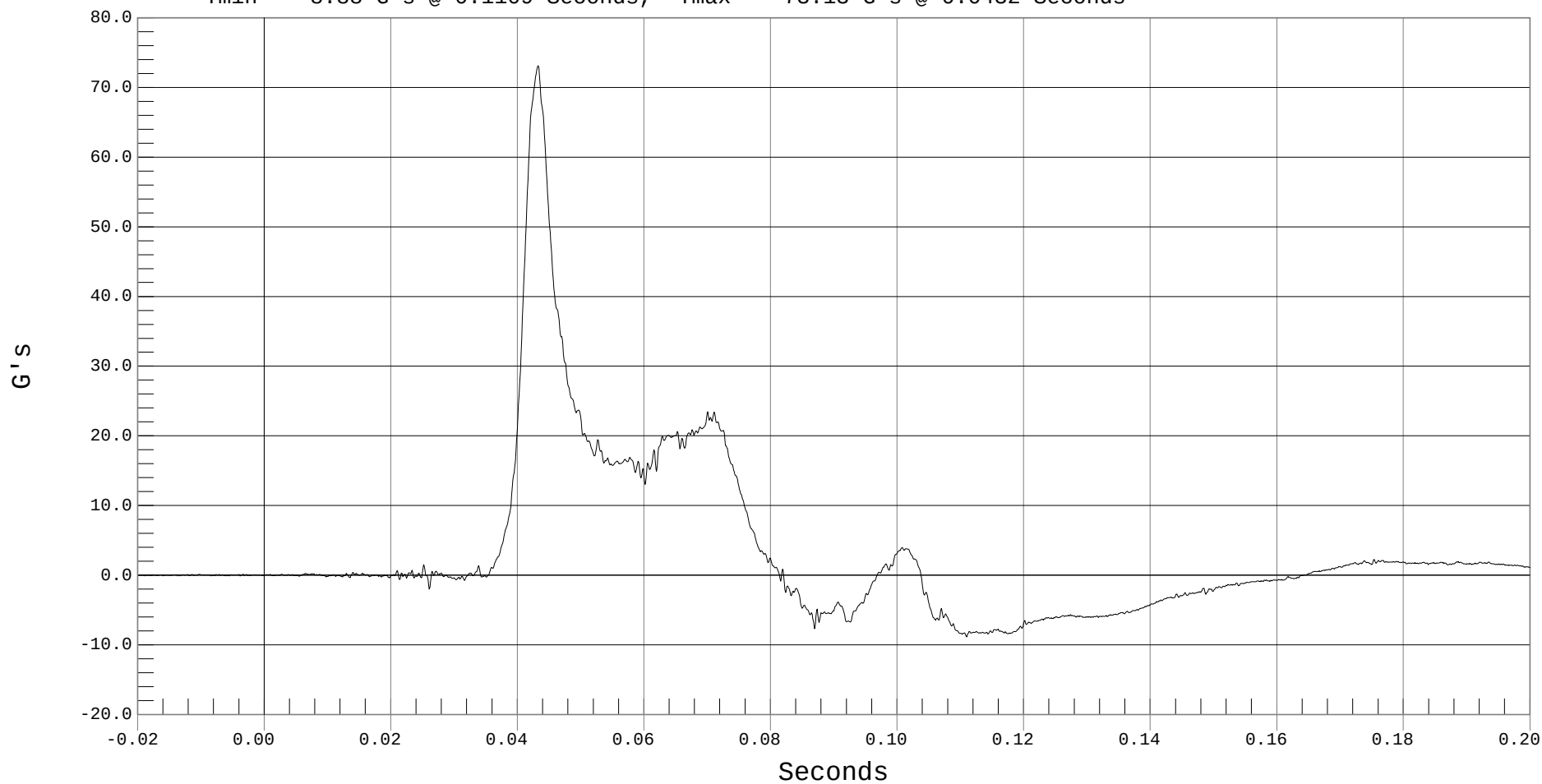
PASSENGER HEAD FRONT Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD FRONT Y, B01102AT.A65

Ymin = -8.88 G's @ 0.1109 Seconds, Ymax = 73.13 G's @ 0.0432 Seconds





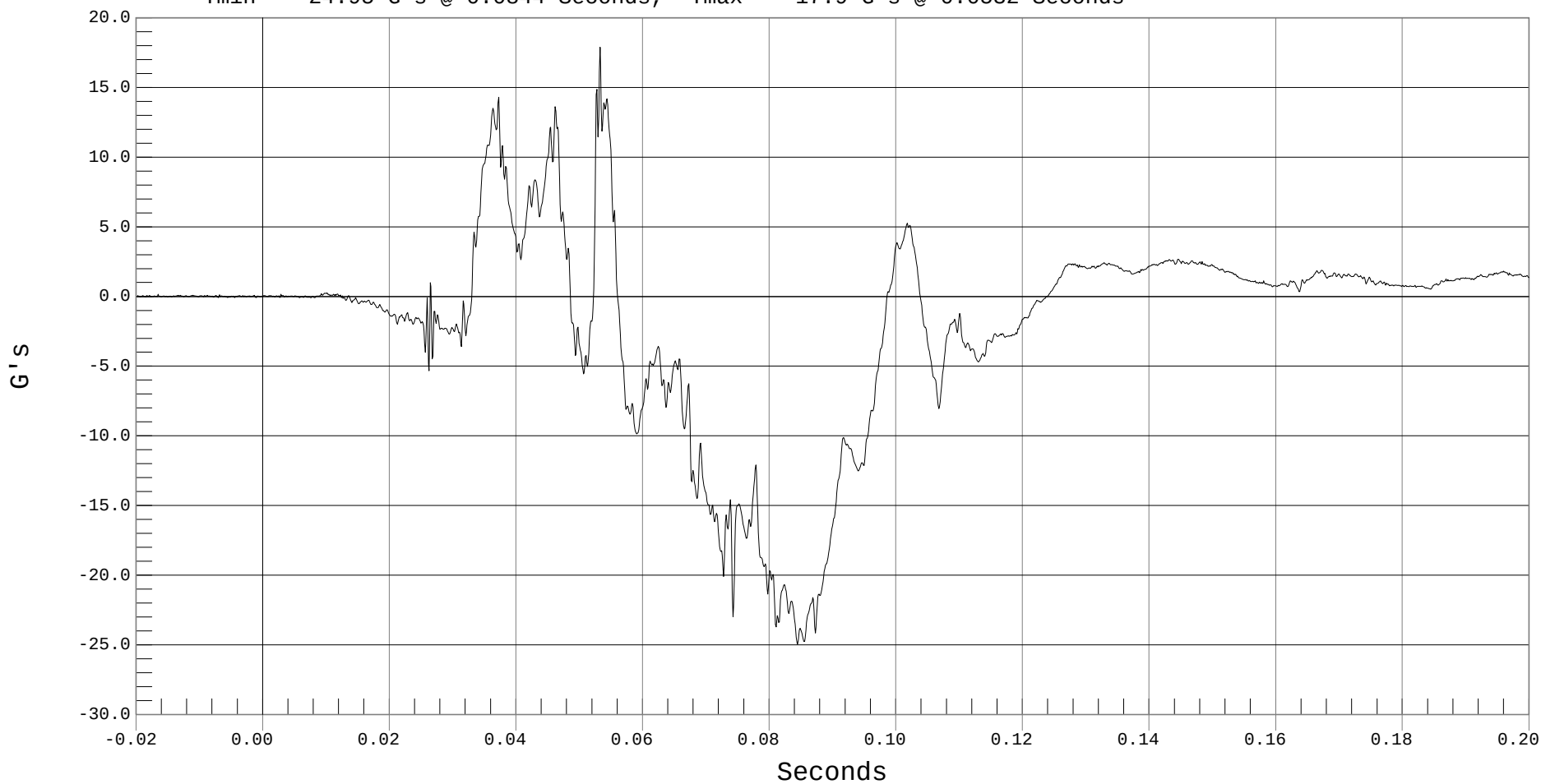
PASSENGER HEAD FRONT Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD FRONT Z, B01102AT.A66

Ymin = -24.95 G's @ 0.0844 Seconds, Ymax = 17.9 G's @ 0.0532 Seconds





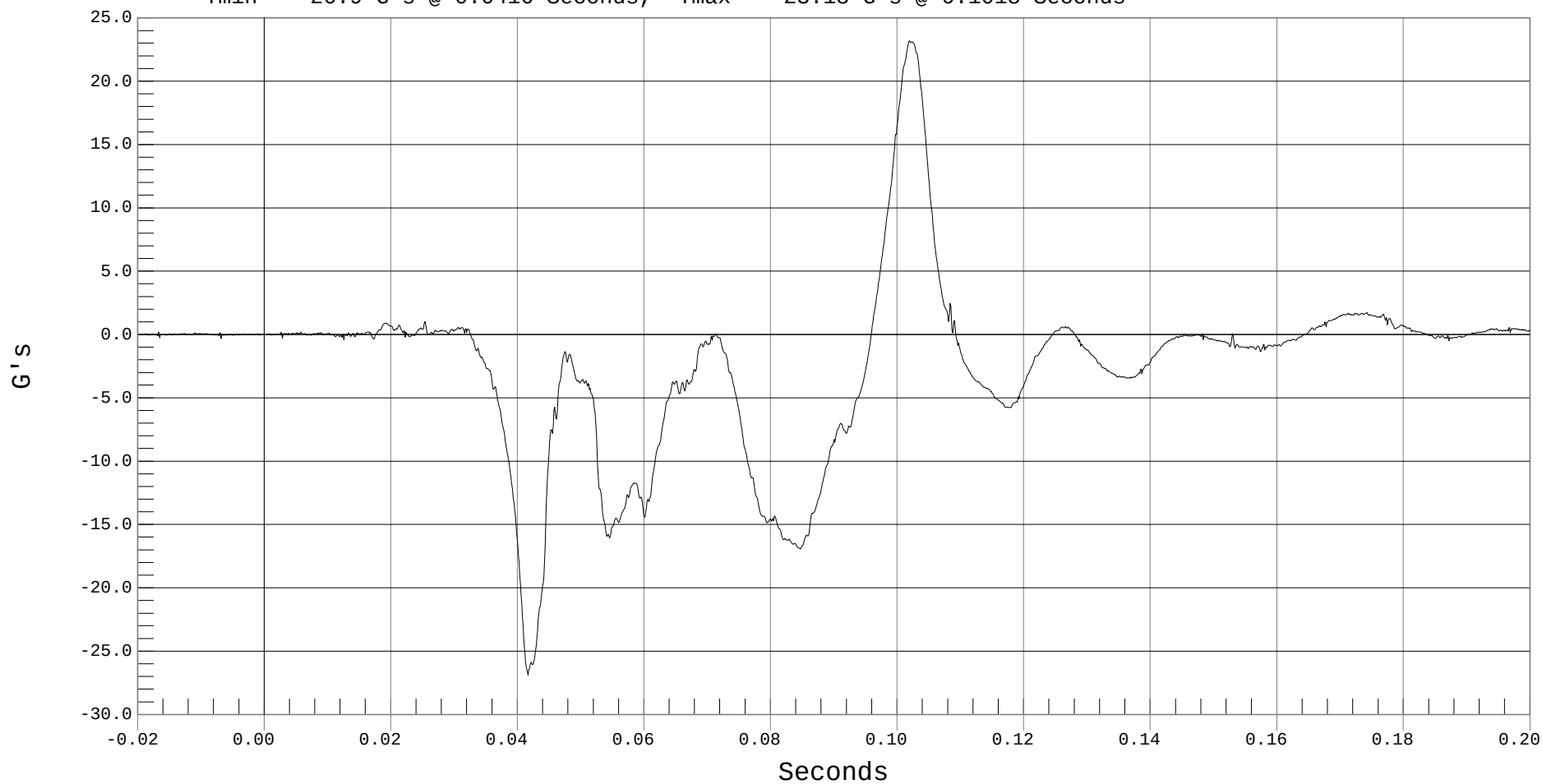
PASSENGER HEAD LEFT X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD LEFT X, B01102AT.A67

Ymin = -26.9 G's @ 0.0416 Seconds, Ymax = 23.18 G's @ 0.1018 Seconds





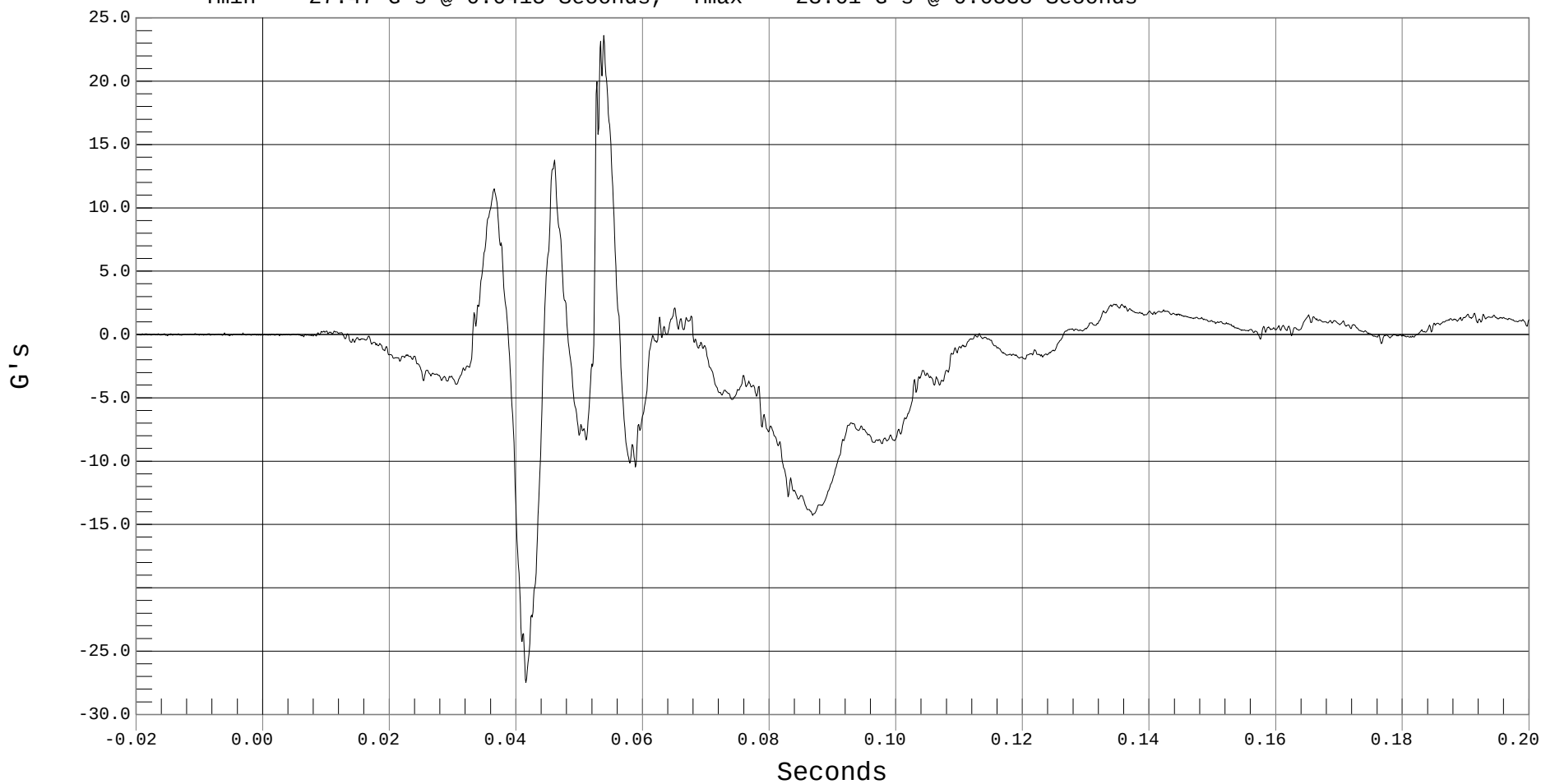
PASSENGER HEAD LEFT Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD LEFT Z, B01102AT.A68

Ymin = -27.47 G's @ 0.0415 Seconds, Ymax = 23.61 G's @ 0.0538 Seconds





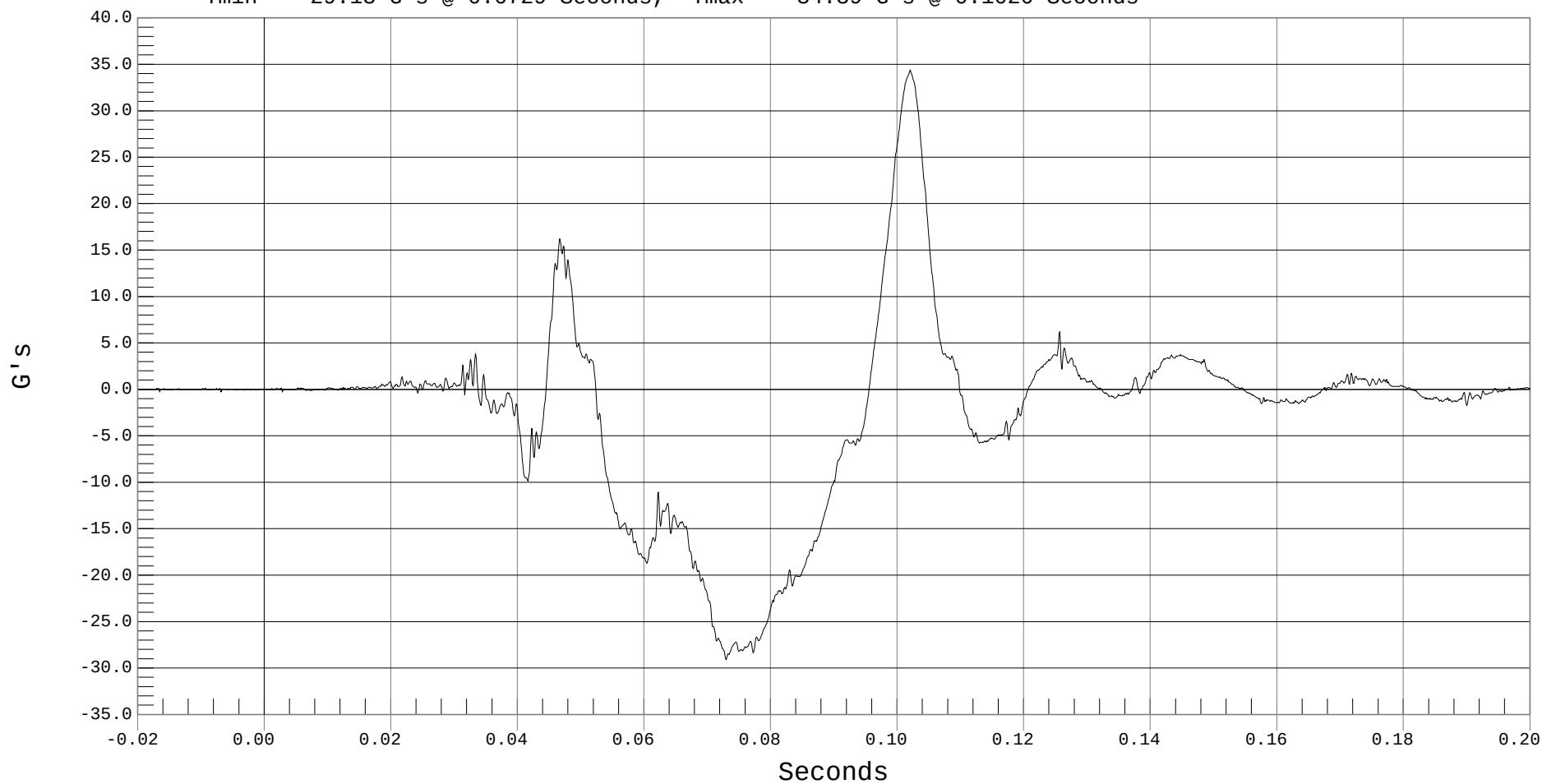
PASSENGER HEAD TOP X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD TOP X, B01102AT.A69

Ymin = -29.13 G's @ 0.0729 Seconds, Ymax = 34.39 G's @ 0.1020 Seconds





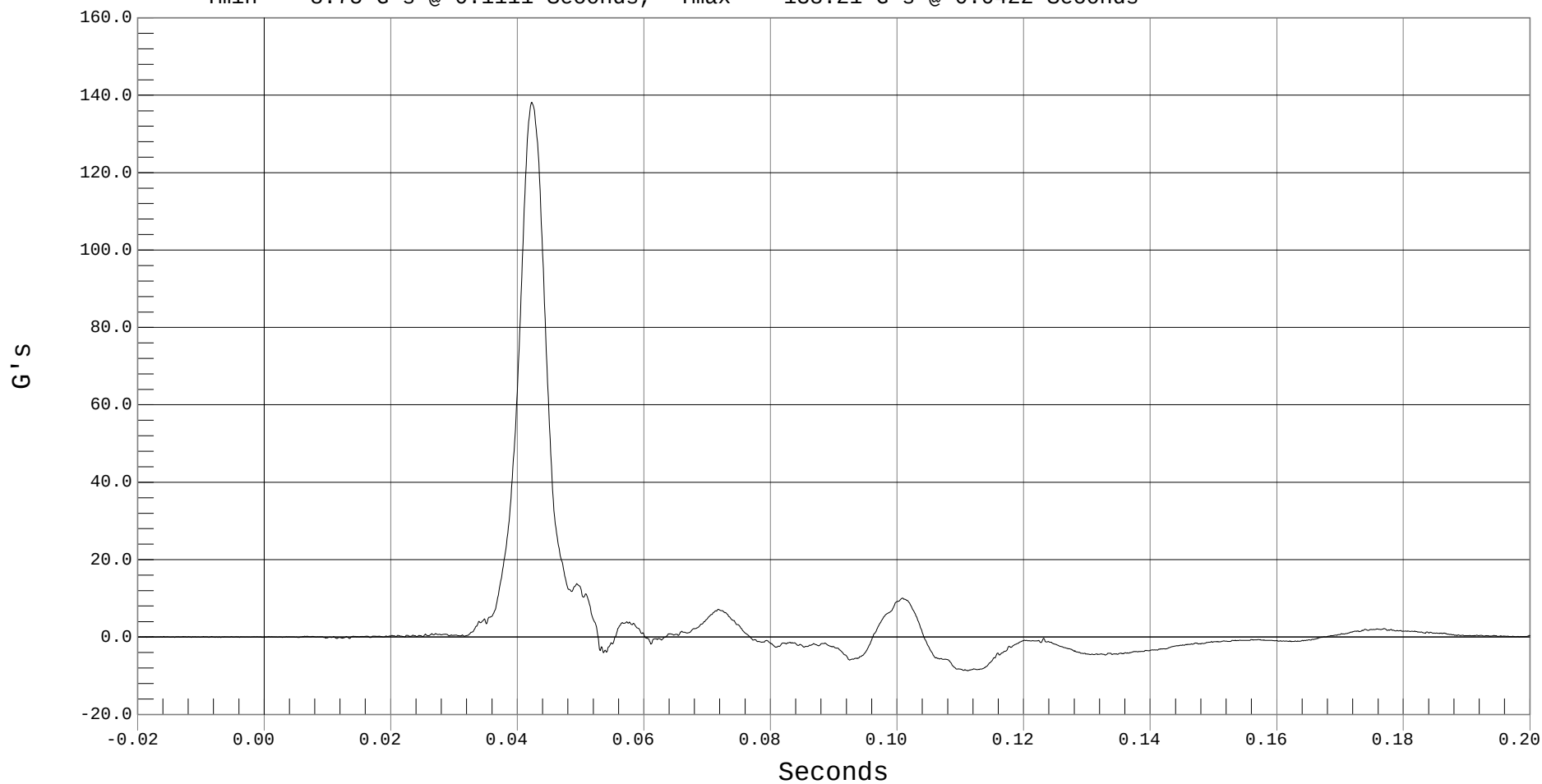
PASSENGER HEAD TOP Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENEGR HEAD TOP Y, B01102AT.A70

Ymin = -8.75 G's @ 0.1111 Seconds, Ymax = 138.21 G's @ 0.0422 Seconds





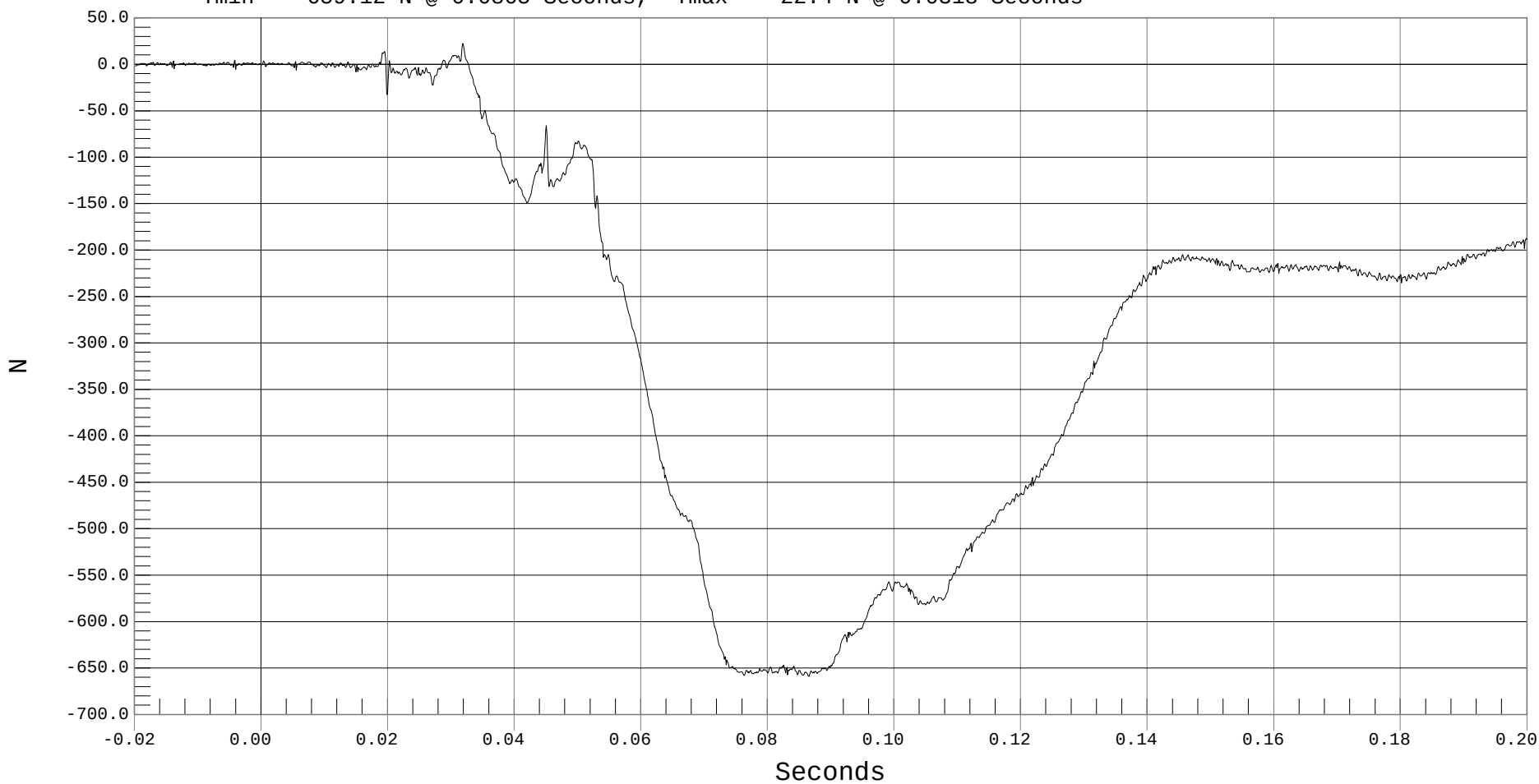
PASSENGER UPPER NECK FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER UPPER NECK FORCE X, B01102FT.F63

Ymin = -659.12 N @ 0.0865 Seconds, Ymax = 22.4 N @ 0.0318 Seconds





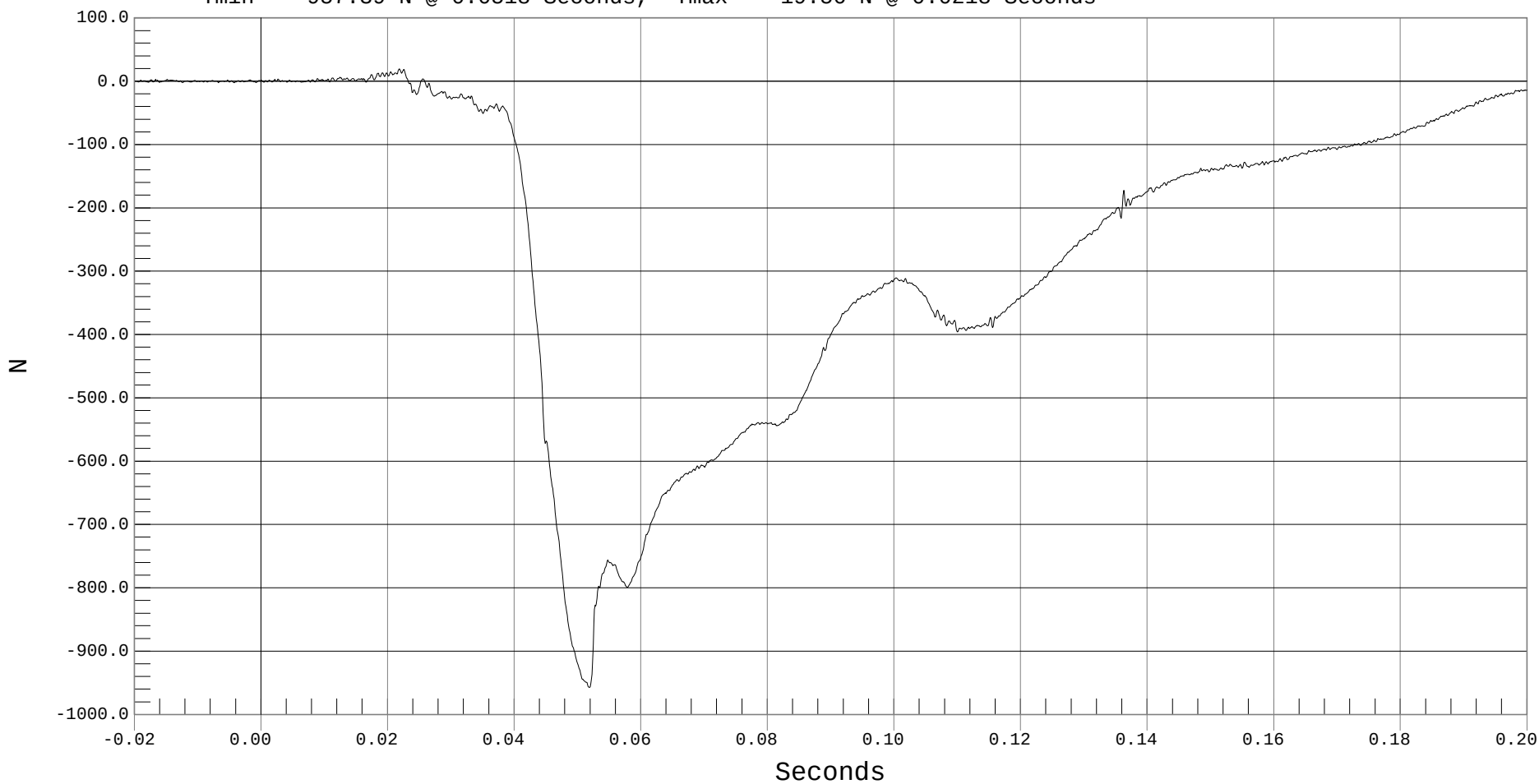
PASSENGER UPPER NECK FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER UPPER NECK FORCE Y, B01102FT.F65

Ymin = -957.39 N @ 0.0518 Seconds, Ymax = 19.56 N @ 0.0218 Seconds





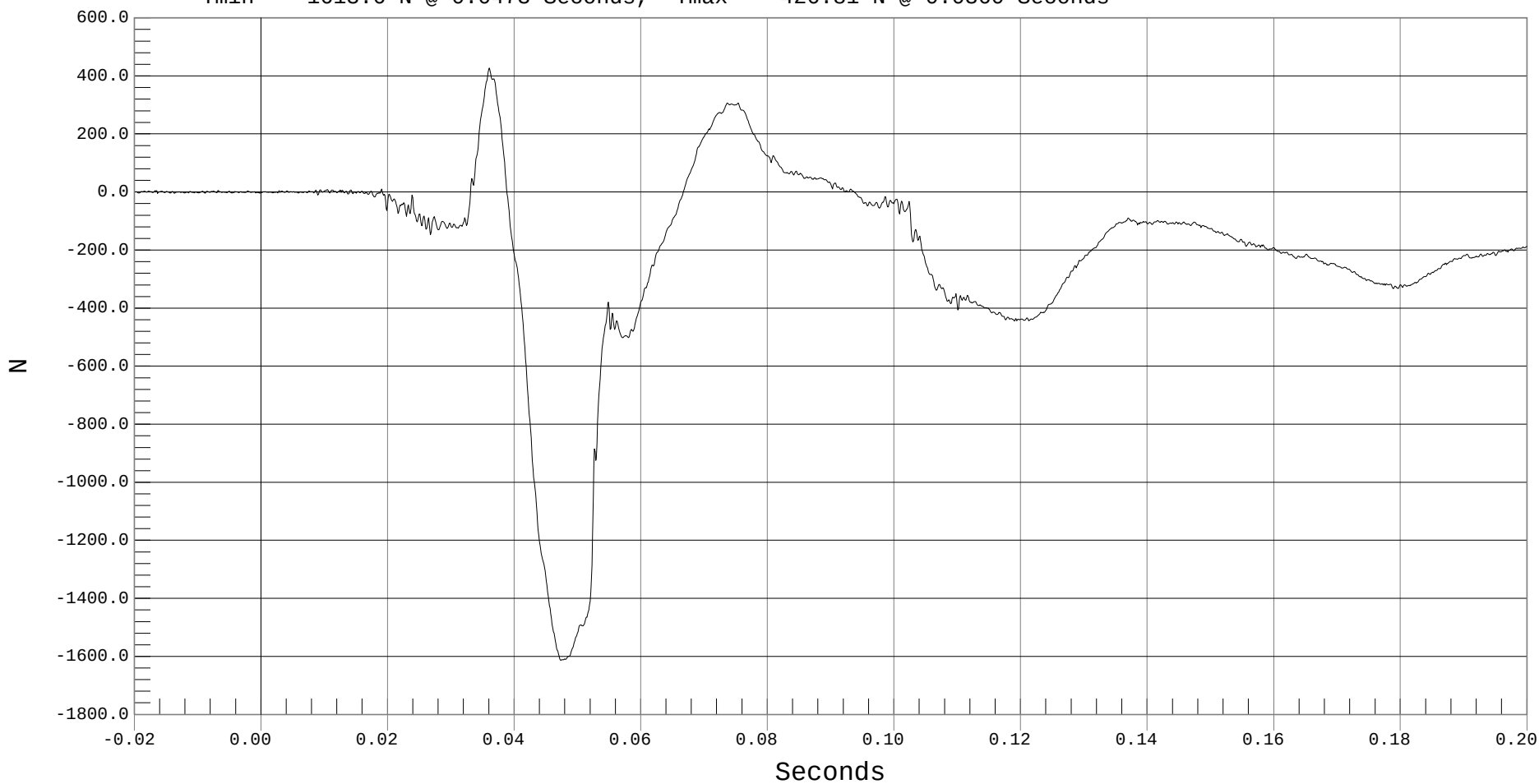
PASSENGER UPPER NECK FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER UPPER NECK FORCE Z, B01102FT.F66

Ymin = -1613.6 N @ 0.0473 Seconds, Ymax = 426.81 N @ 0.0360 Seconds





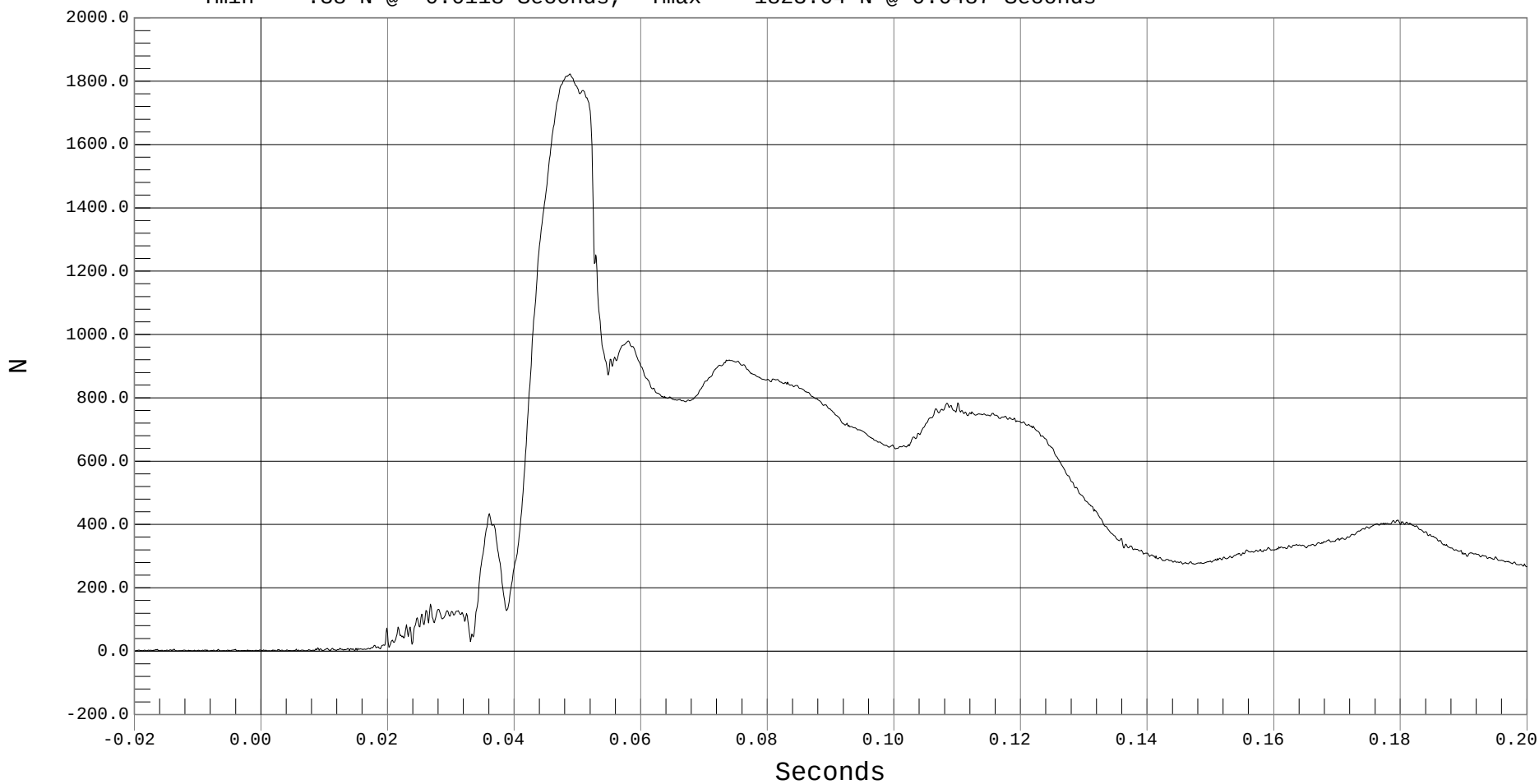
PASSENGER UPPER NECK FORCE RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 PASSENGER UPPER NECK FORCE RESULTANT, B01102FV.F63

Ymin = .38 N @ -0.0118 Seconds, Ymax = 1823.04 N @ 0.0487 Seconds





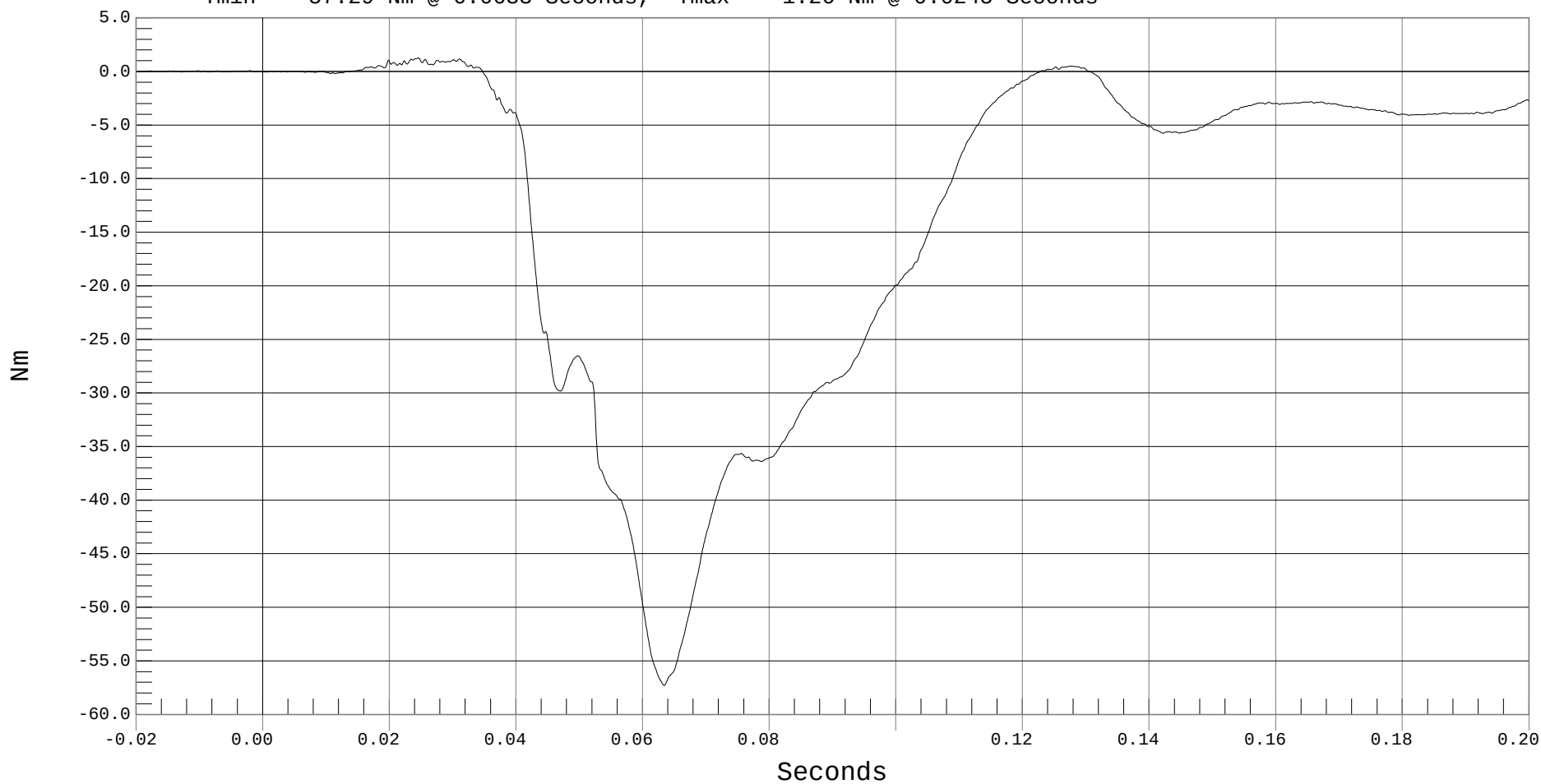
PASSENGER UPPER NECK MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER UPPER NECK MOMENT X, B01102MF.M67

Ymin = -57.29 Nm @ 0.0633 Seconds, Ymax = 1.26 Nm @ 0.0245 Seconds





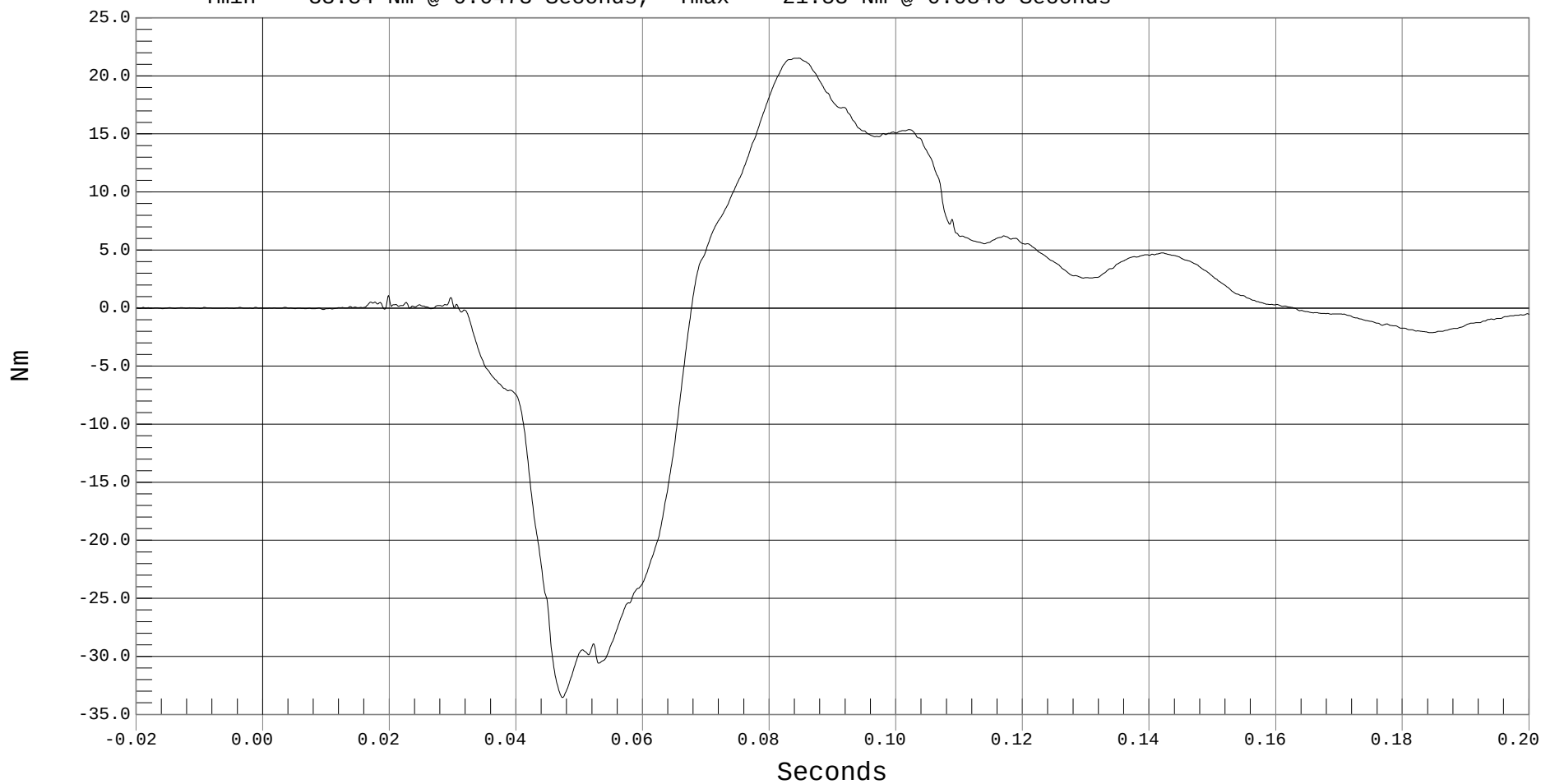
PASSENGER UPPER NECK MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 REAR PASSENGER UPPER NECK MOMENT Y, B01102MF.M68

Ymin = -33.54 Nm @ 0.0473 Seconds, Ymax = 21.53 Nm @ 0.0846 Seconds





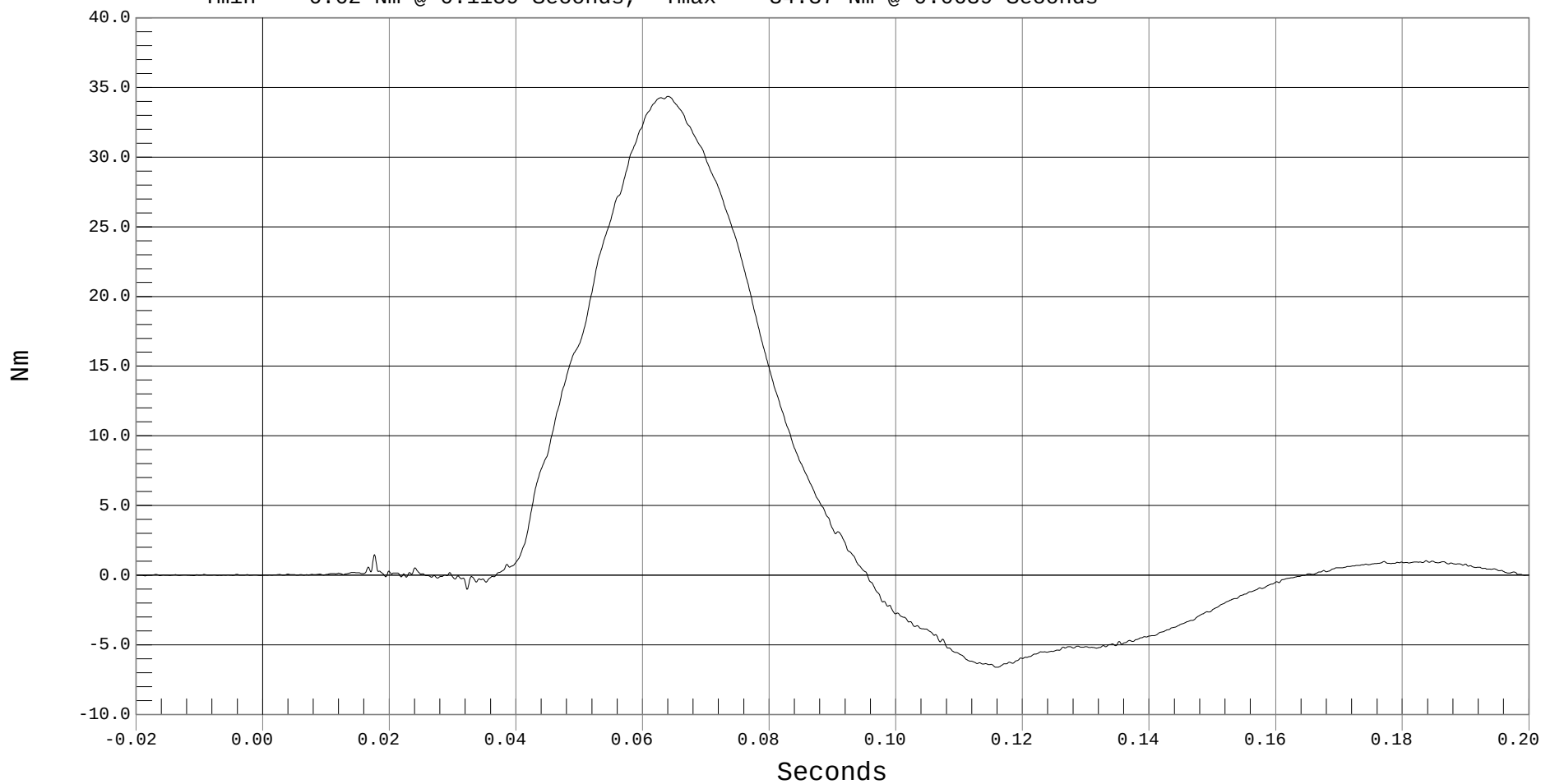
PASSENGER UPPER NECK MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER UPPER NECK MOMENT Z, B01102MF.M69

Ymin = -6.62 Nm @ 0.1159 Seconds, Ymax = 34.37 Nm @ 0.0639 Seconds





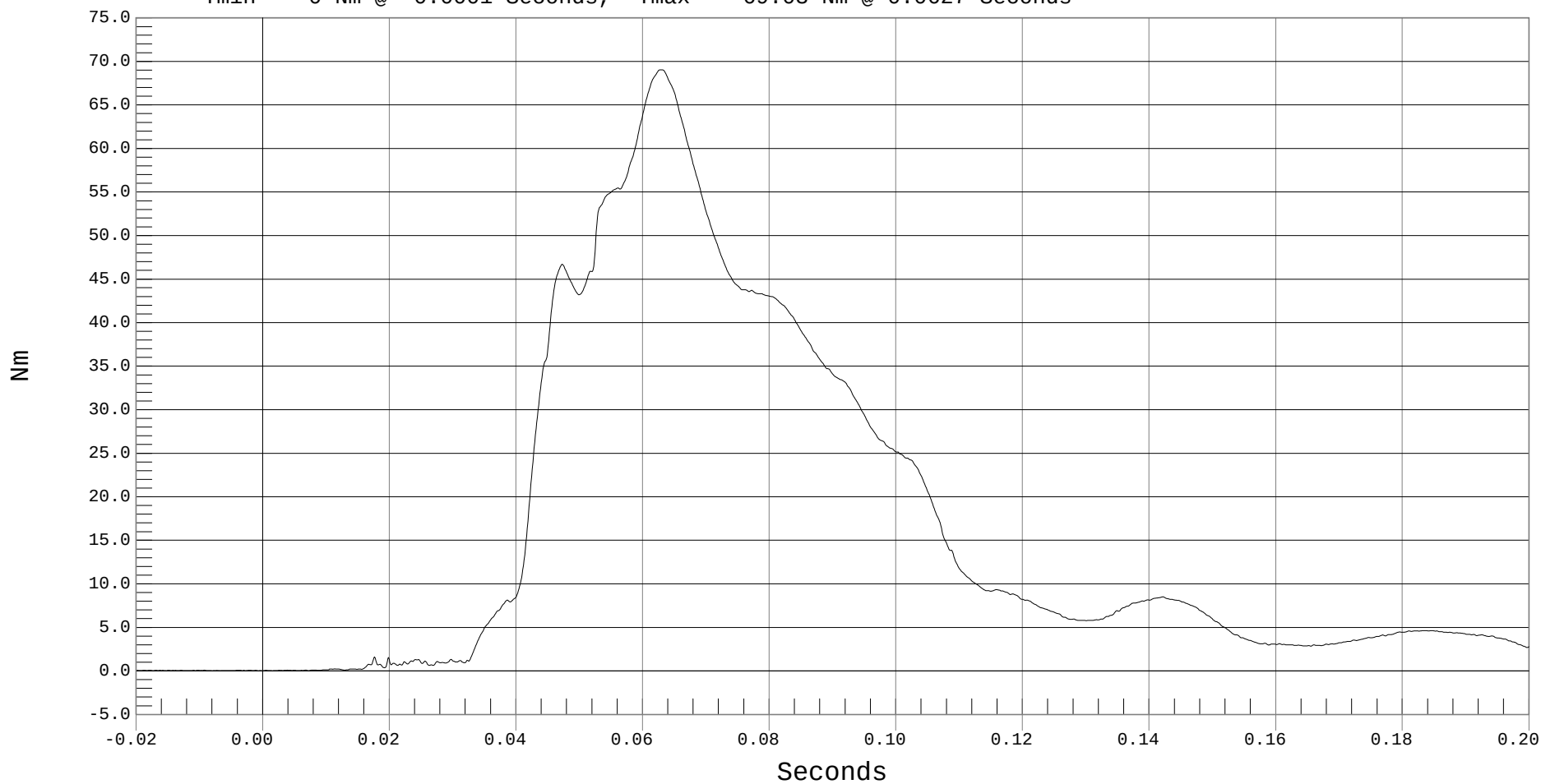
PASSENGER UPPER NECK MOMENT RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 PASSENGER UPPER NECK MOMENT RESULTANT, B01102MV.M67

Ymin = 0 Nm @ -0.0001 Seconds, Ymax = 69.03 Nm @ 0.0627 Seconds





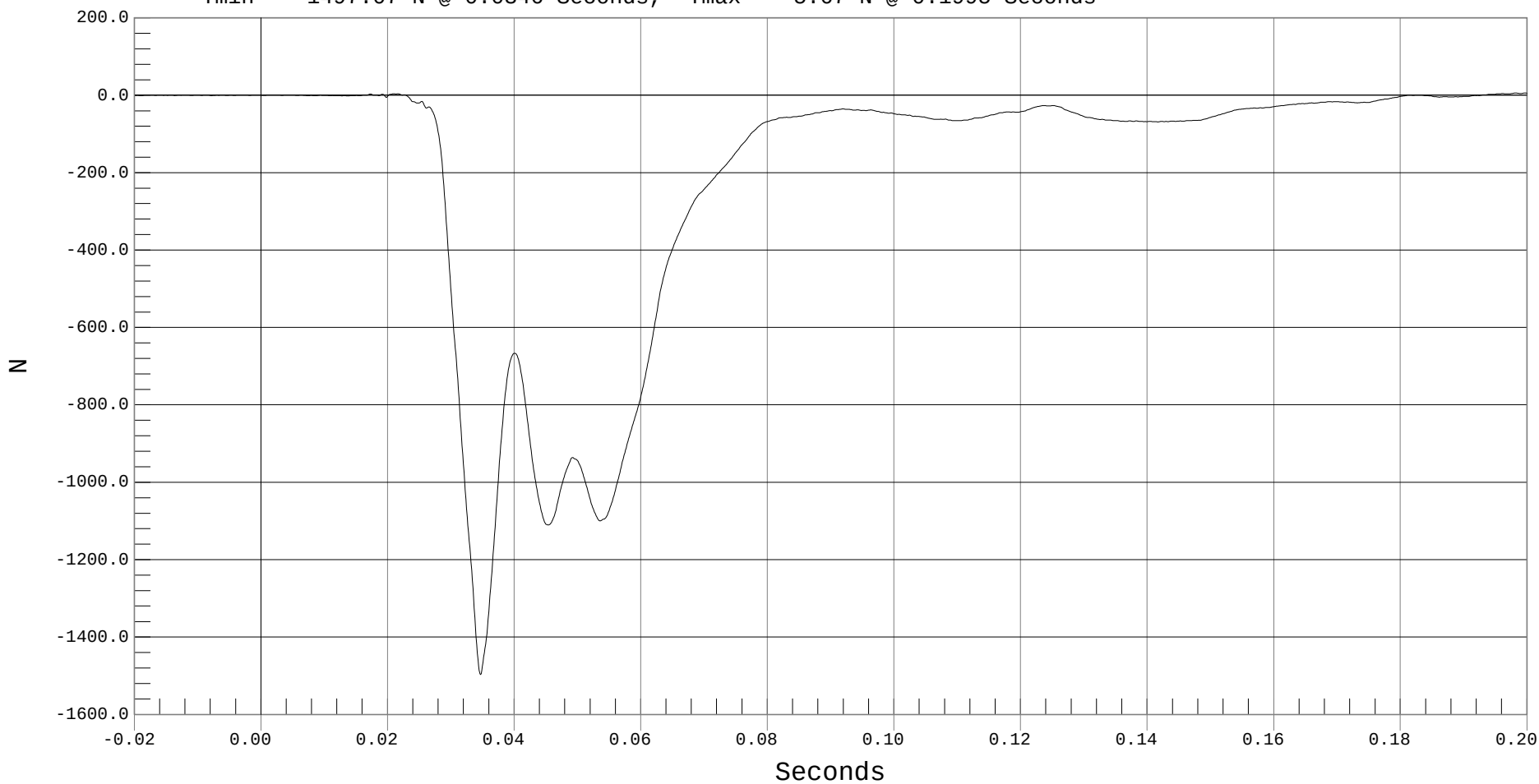
PASSENGER SHOULDER FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 REAR PASSENGER SHOULDER FORCE X, B01102FF.F76

Ymin = -1497.07 N @ 0.0346 Seconds, Ymax = 5.67 N @ 0.1995 Seconds





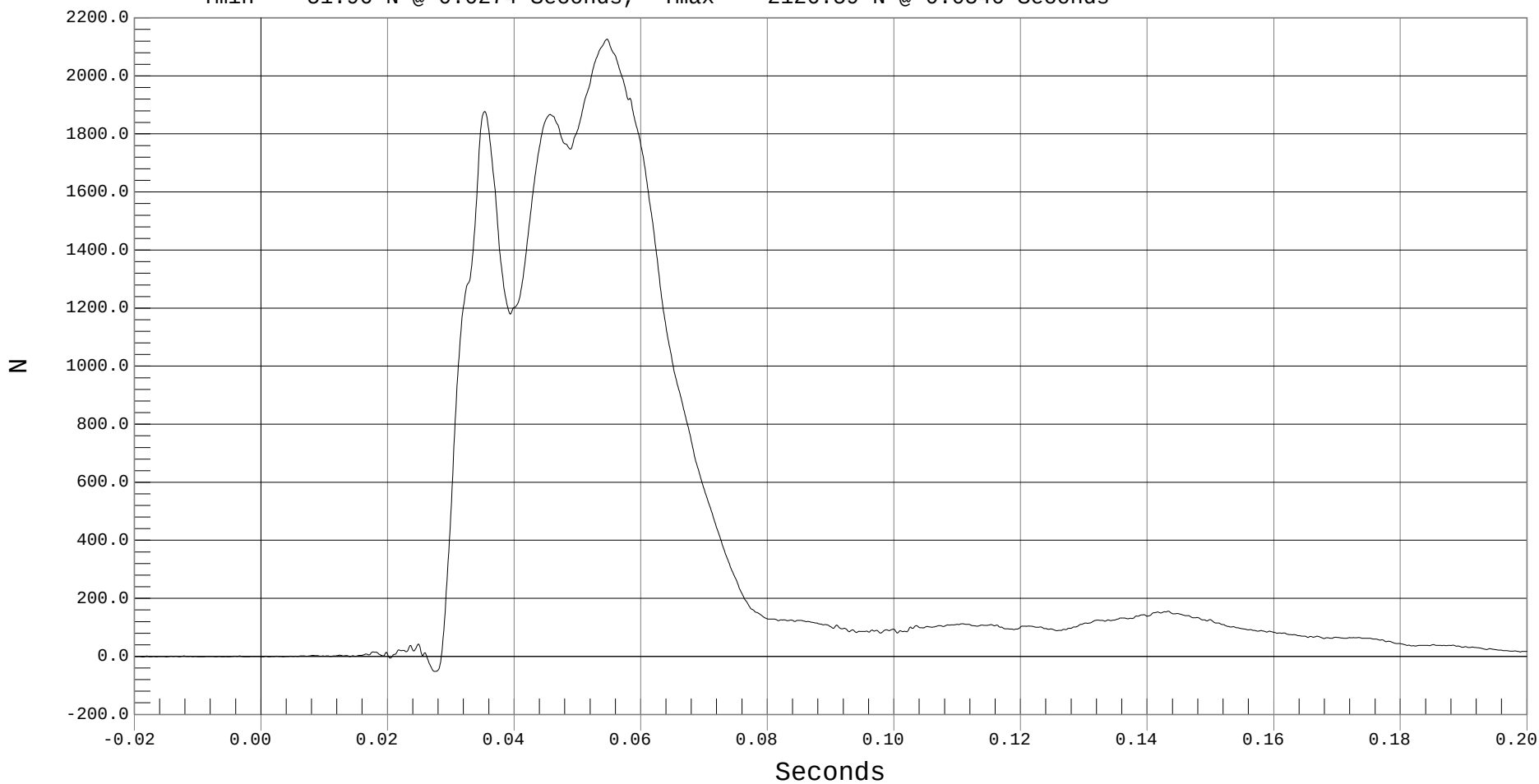
PASSENGER SHOULDER FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER SHOULDER FORCE Y, B01102FF.F77

Ymin = -51.96 N @ 0.0274 Seconds, Ymax = 2126.59 N @ 0.0546 Seconds





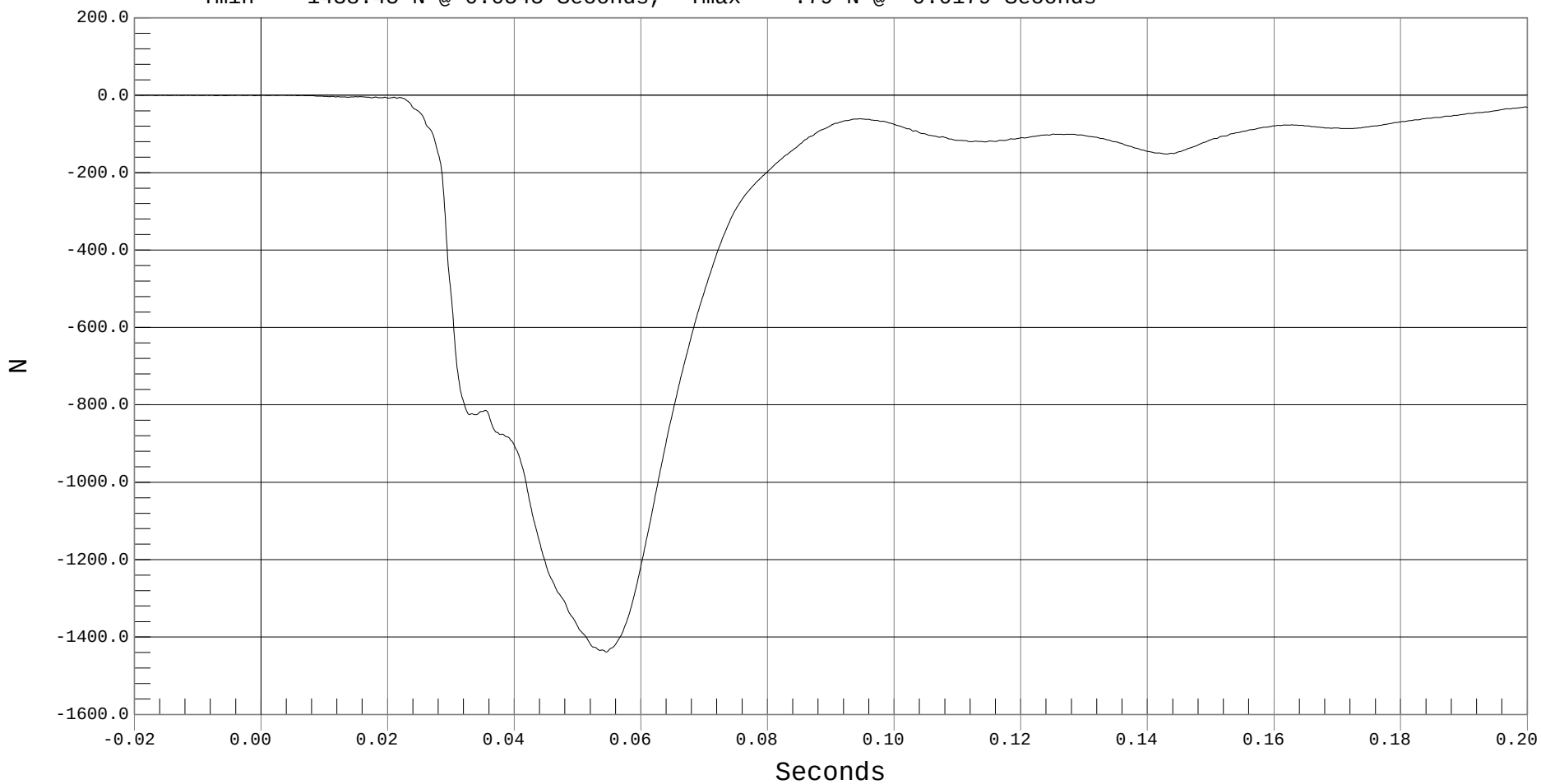
PASSENGER SHOULDER FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER SHOULDER FORCE Z, B01102FF.F78

Ymin = -1438.45 N @ 0.0545 Seconds, Ymax = .79 N @ -0.0179 Seconds





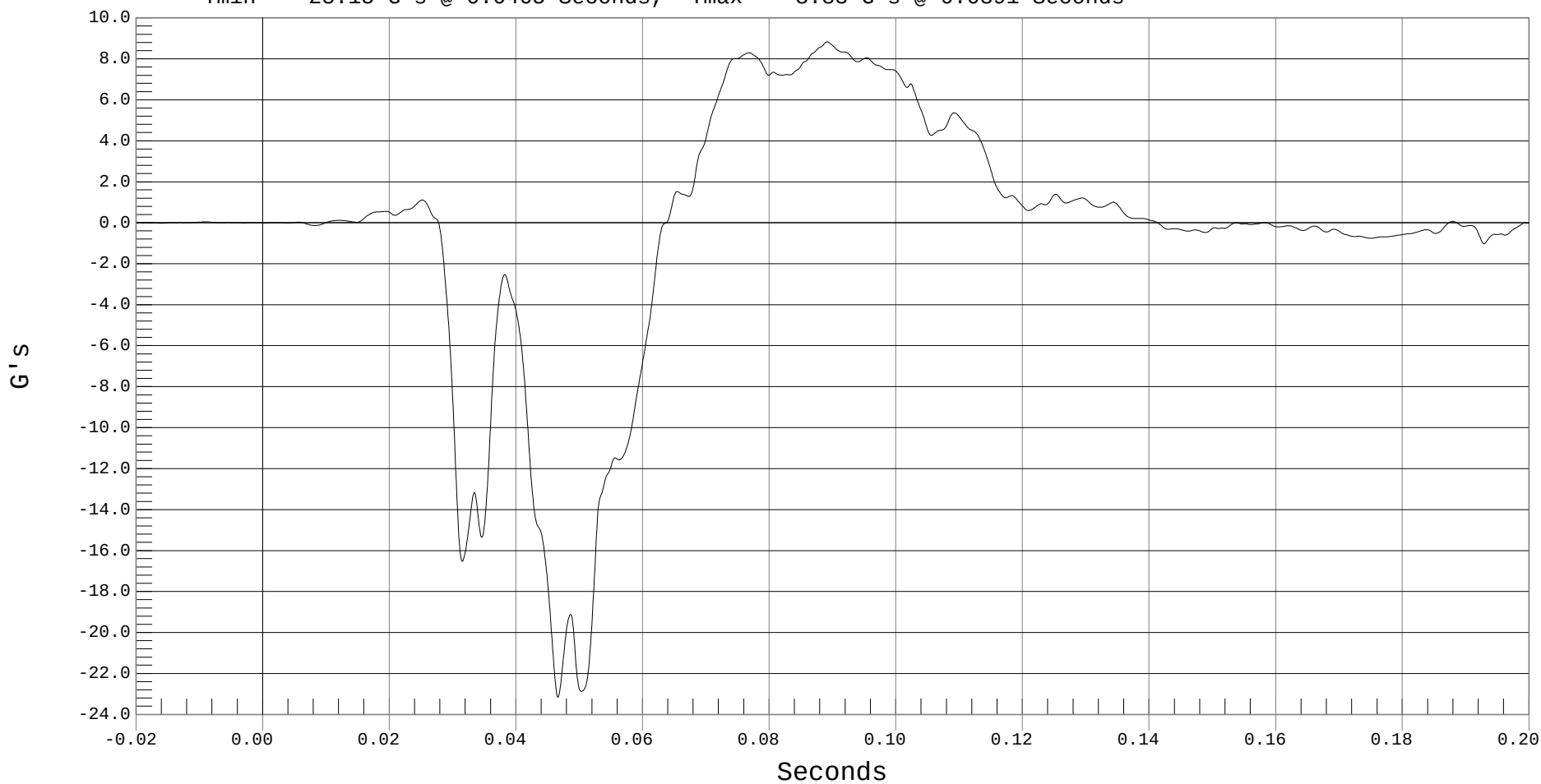
PASSENGER UPPER SPINE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER UPPER SPINE X, B01102AF.A80

Ymin = -23.15 G's @ 0.0465 Seconds, Ymax = 8.83 G's @ 0.0891 Seconds





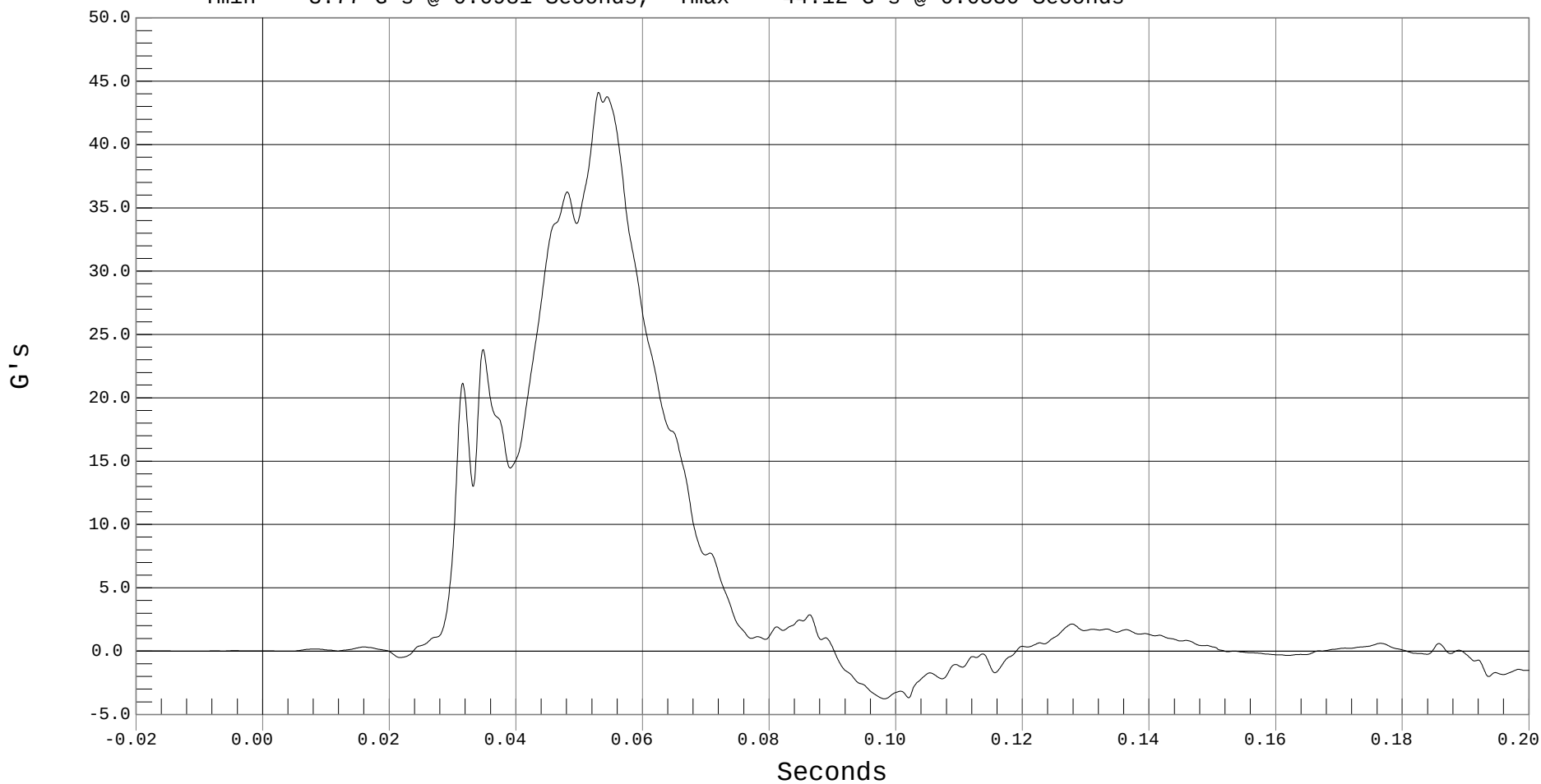
PASSENGER UPPER SPINE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER UPPER SPINE Y, B01102AF.A81

Ymin = -3.77 G's @ 0.0981 Seconds, Ymax = 44.12 G's @ 0.0530 Seconds





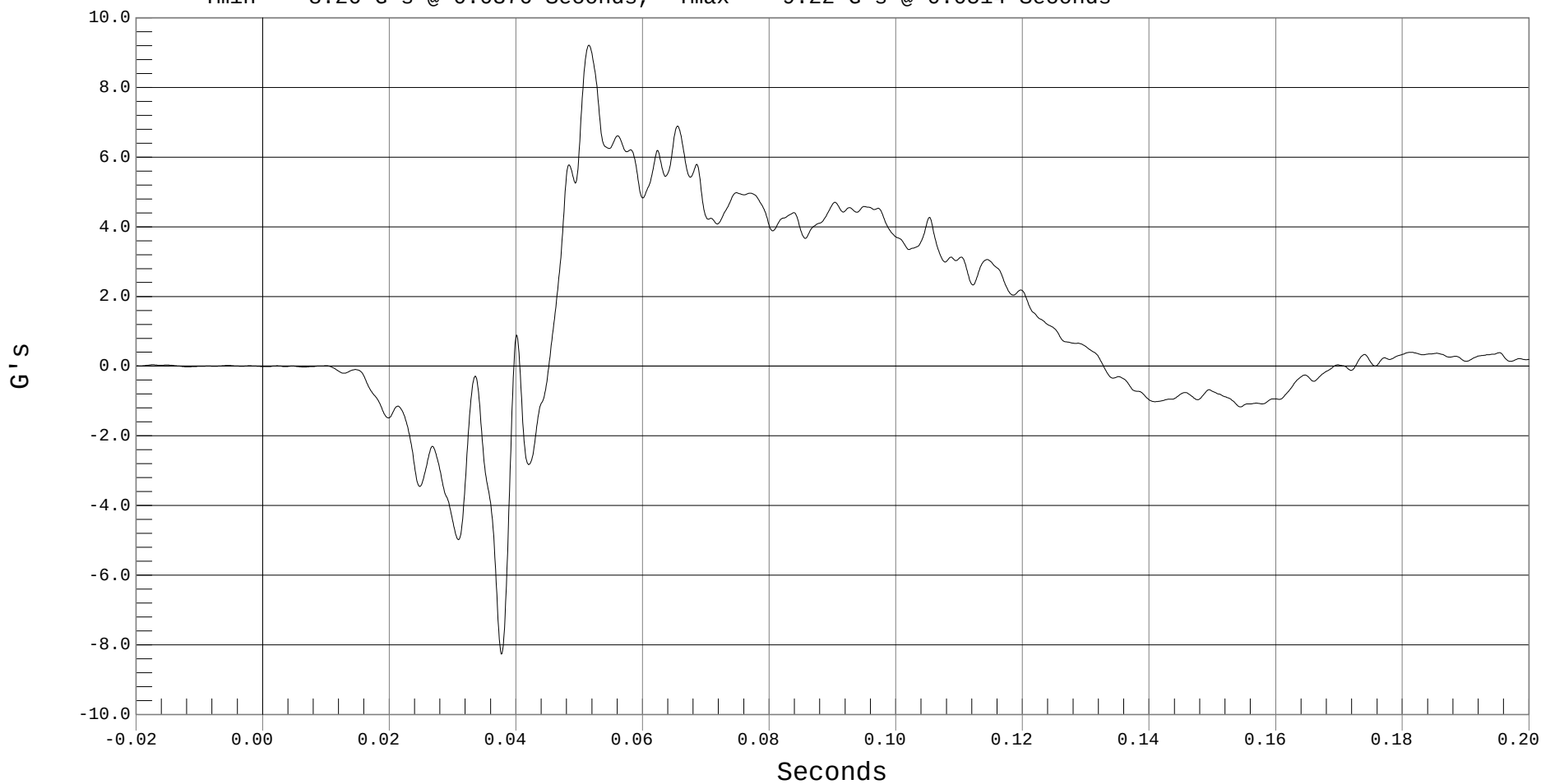
PASSENGER UPPER SPINE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

1 REAR PASSENGER UPPER SPINE Z, B01102AF.A82

Ymin = -8.26 G's @ 0.0376 Seconds, Ymax = 9.22 G's @ 0.0514 Seconds





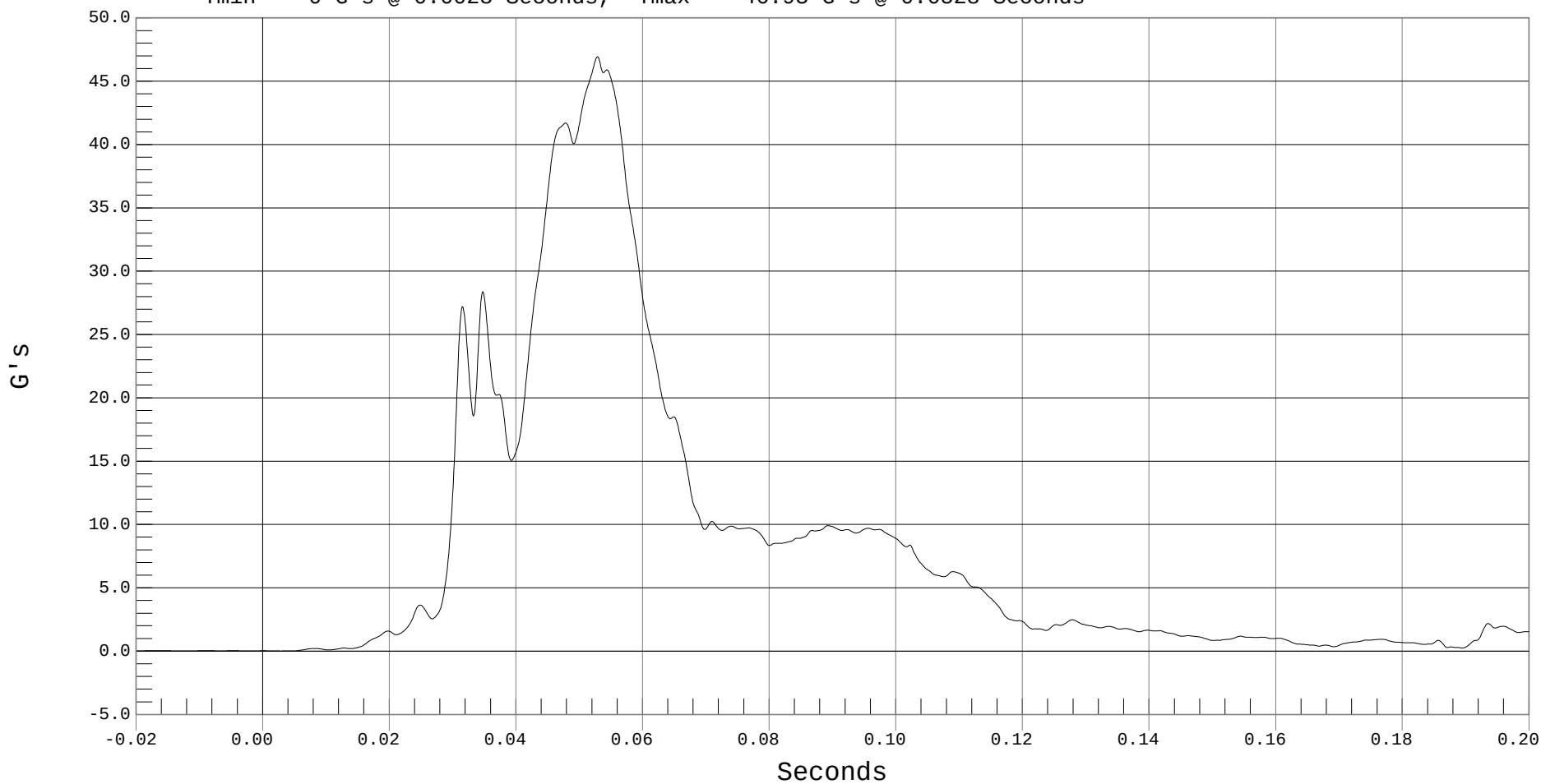
PASSENGER UPPER SPINE RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 PASSENGER UPPER SPINE RESULTANT, B01102AV.A80

Ymin = 0 G's @ 0.0028 Seconds, Ymax = 46.93 G's @ 0.0528 Seconds





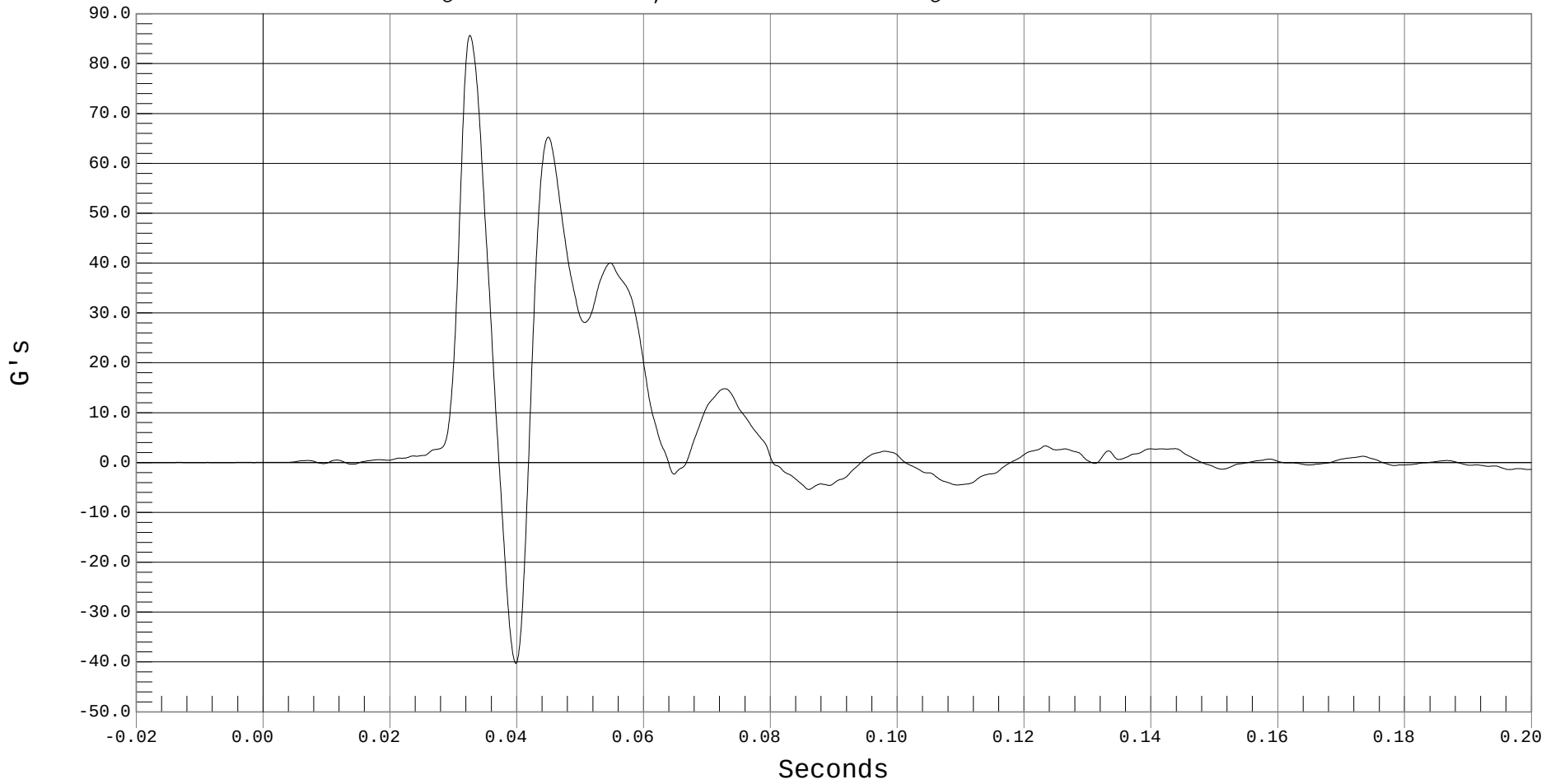
PASSENGER UPPER RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER UPPER RIB Y, B01102AF.A83

Ymin = -40.27 G's @ 0.0398 Seconds, Ymax = 85.66 G's @ 0.0325 Seconds





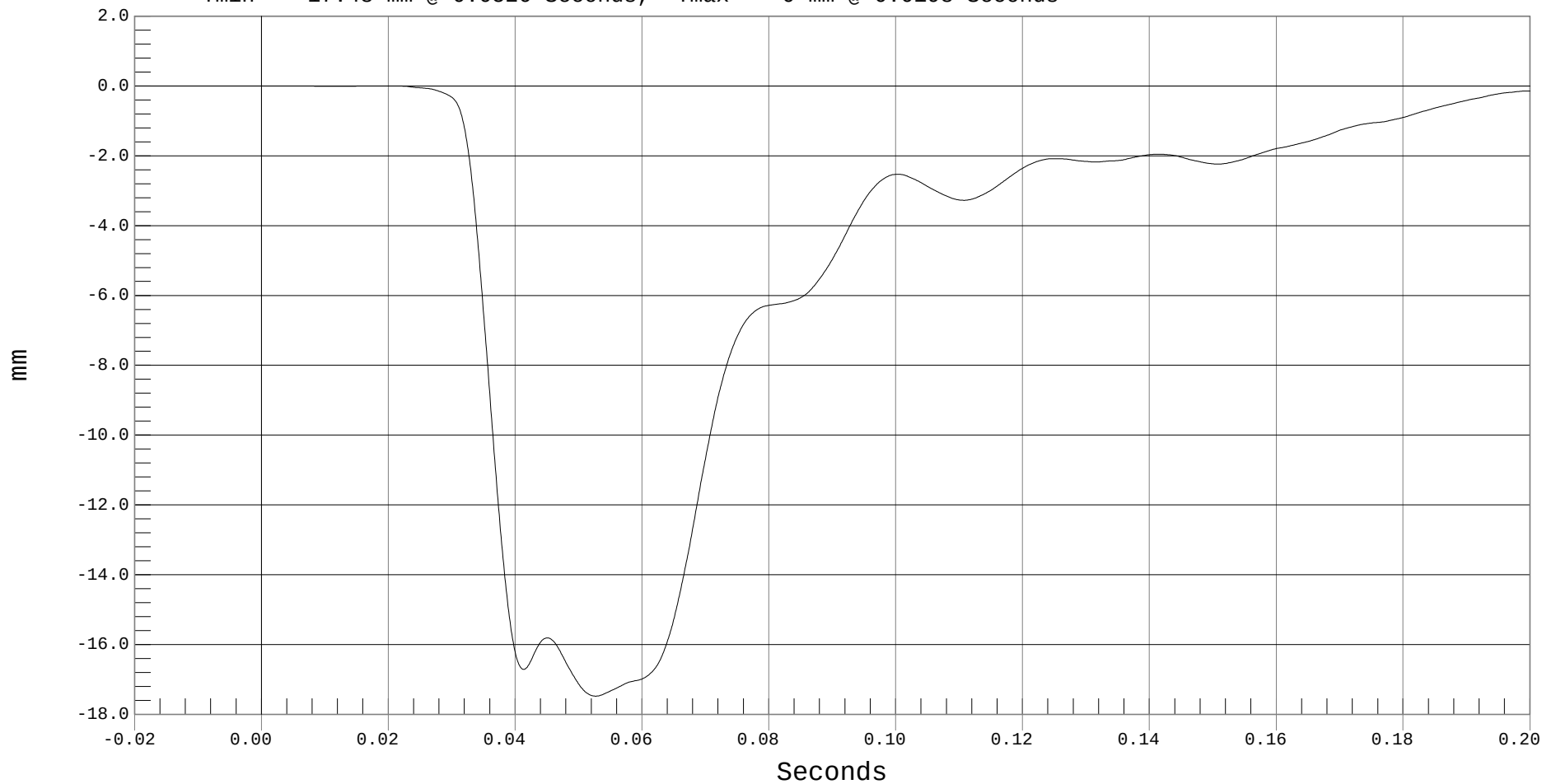
PASSENGER UPPER RIB DISPLACEMENT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER UPPER RIB DISPLACEMENT, B01102DF.D86

Ymin = -17.48 mm @ 0.0526 Seconds, Ymax = 0 mm @ 0.0198 Seconds





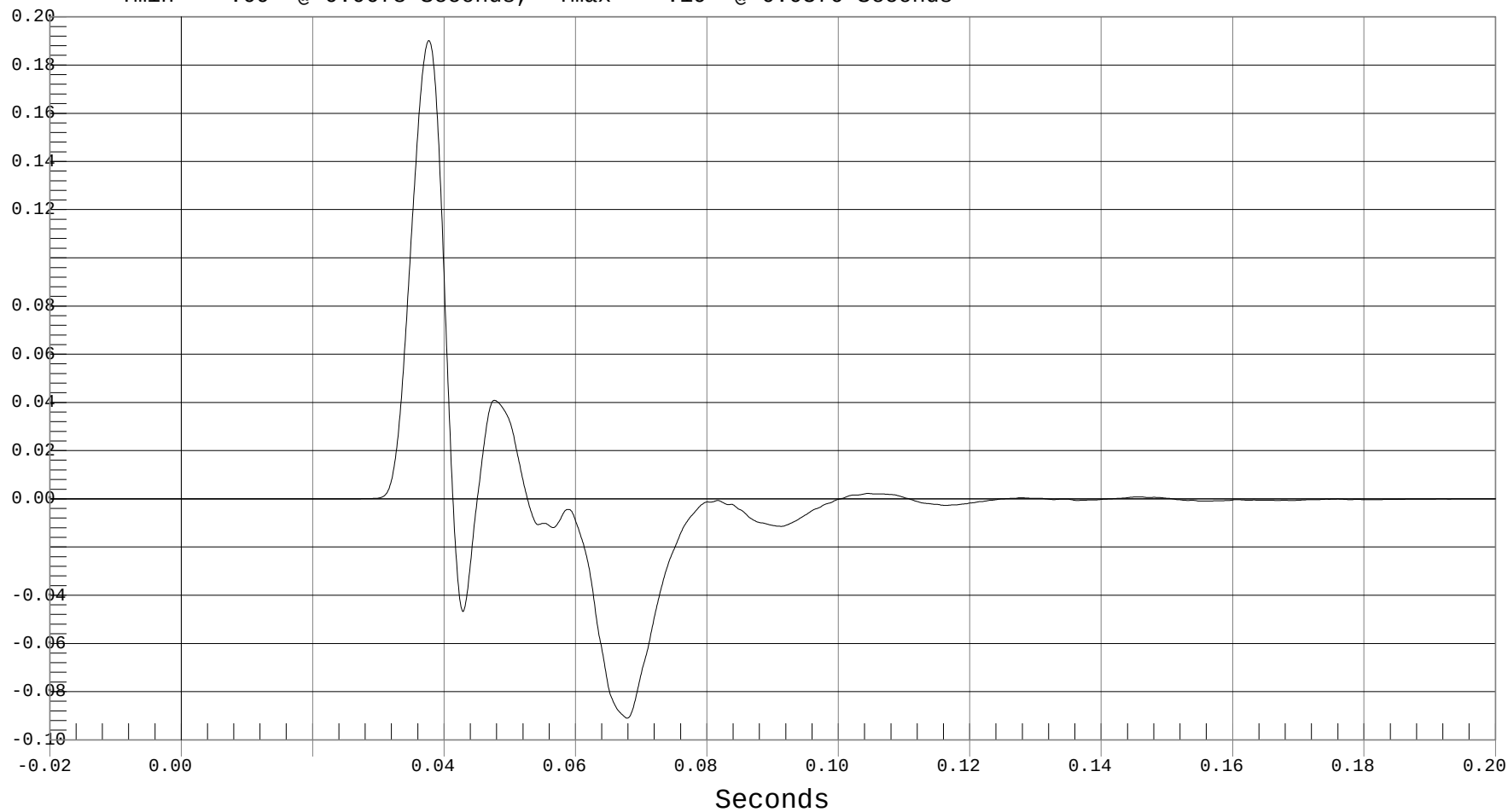
PASSENGER UPPER RIB VISCOUS CRITERIA

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 Viscous Criterion, B01102DV.C86

Ymin = -.09 @ 0.0678 Seconds, Ymax = .19 @ 0.0376 Seconds





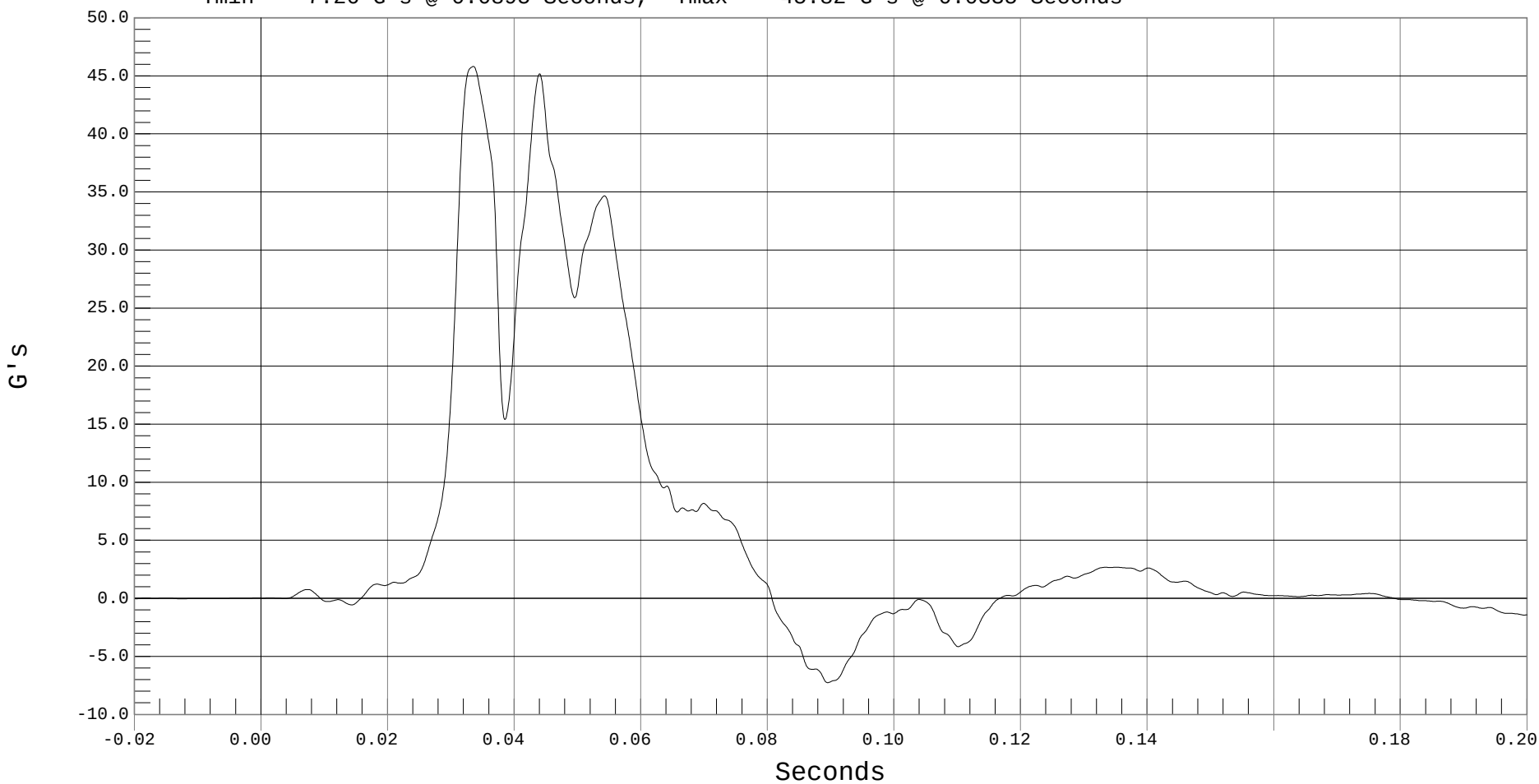
PASSENGER MID RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER MID RIB Y, B01102AF.A84

Ymin = -7.26 G's @ 0.0895 Seconds, Ymax = 45.82 G's @ 0.0335 Seconds





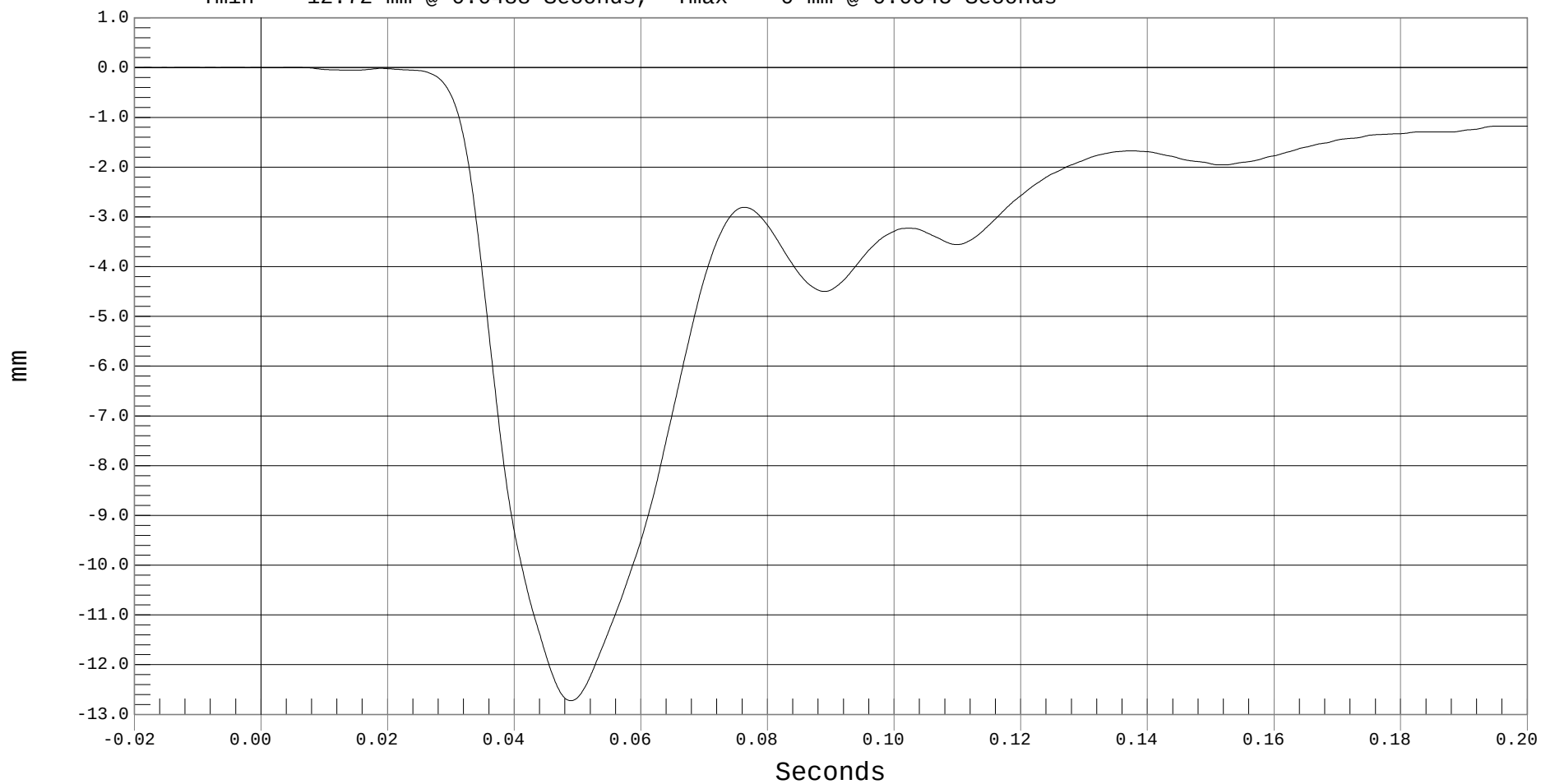
PASSENGER MID RIB DISPLACEMENT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER MID RIB DISPLACEMENT, B01102DF.D87

Ymin = -12.72 mm @ 0.0488 Seconds, Ymax = 0 mm @ 0.0045 Seconds





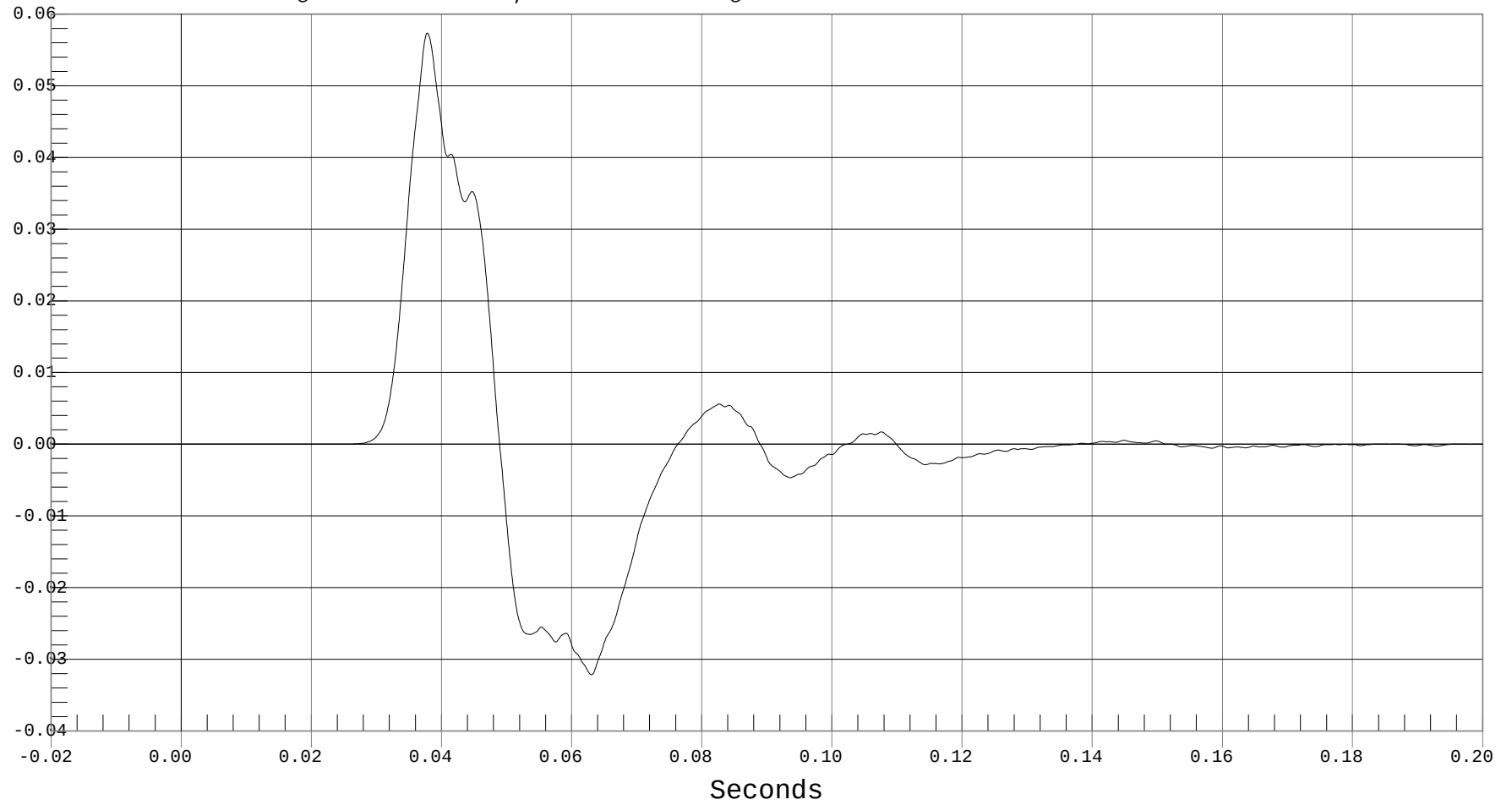
PASSENGER MID RIB VISCOUS CRITERIA

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 Viscous Criterion, B01102DV.C87

Ymin = -.03 @ 0.0630 Seconds, Ymax = .06 @ 0.0377 Seconds





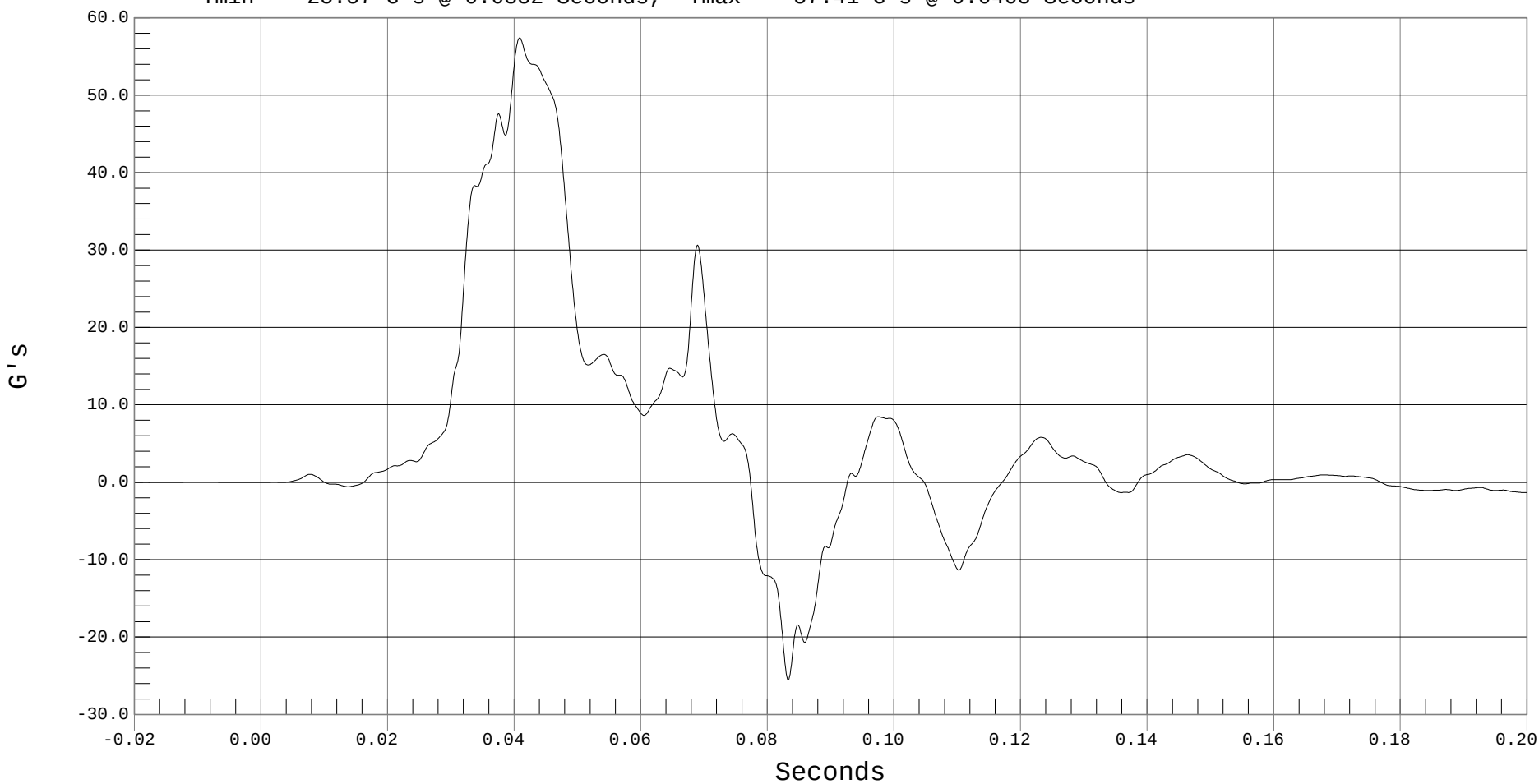
PASSENGER LOWER RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER LOWER RIB Y, B01102AF.A85

Ymin = -25.57 G's @ 0.0832 Seconds, Ymax = 57.41 G's @ 0.0408 Seconds





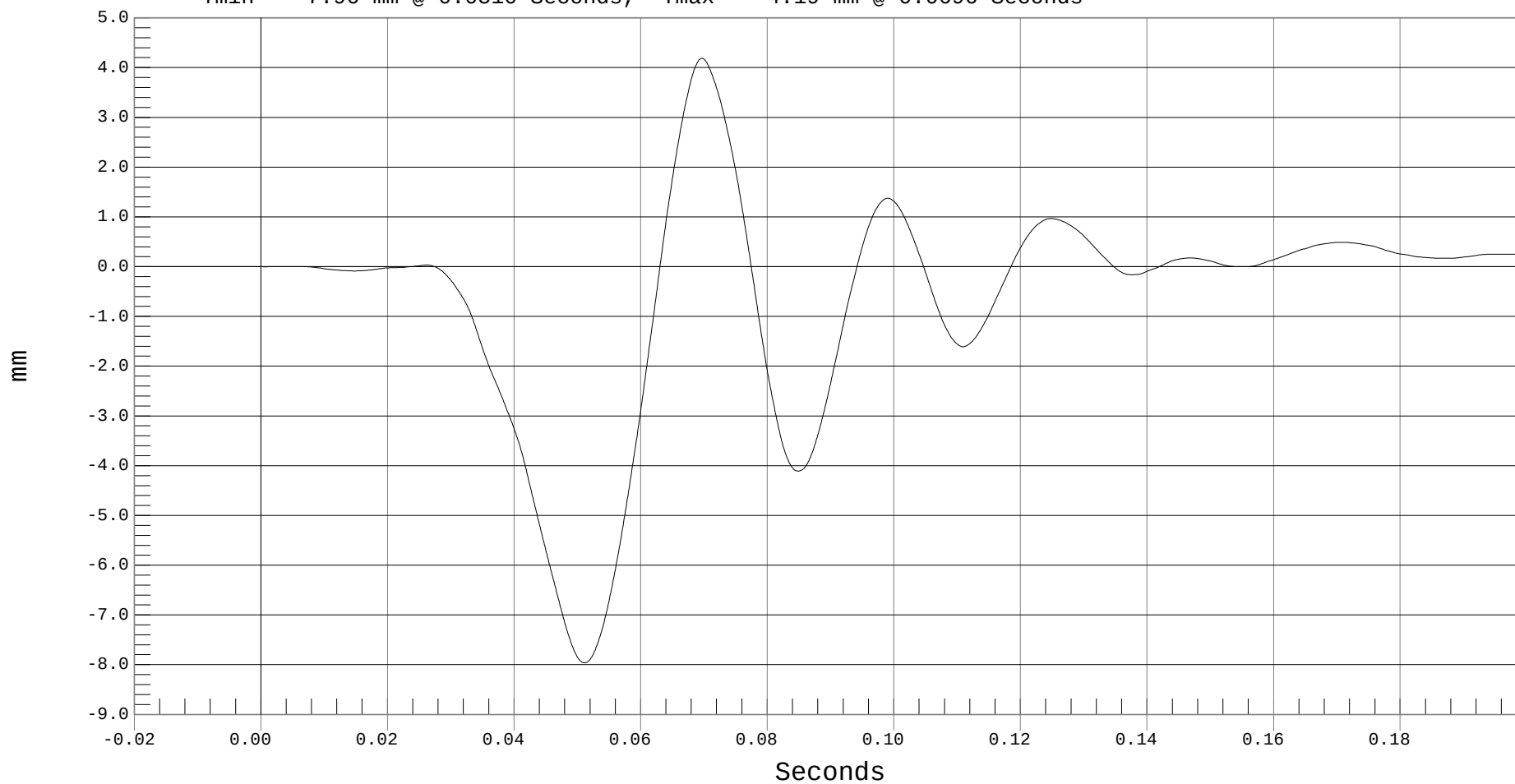
PASSENGER LOWER RIB DISPLACEMENT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER LOWER RIB DISPLACEMENT, B01102DF.D88

Ymin = -7.96 mm @ 0.0510 Seconds, Ymax = 4.19 mm @ 0.0696 Seconds





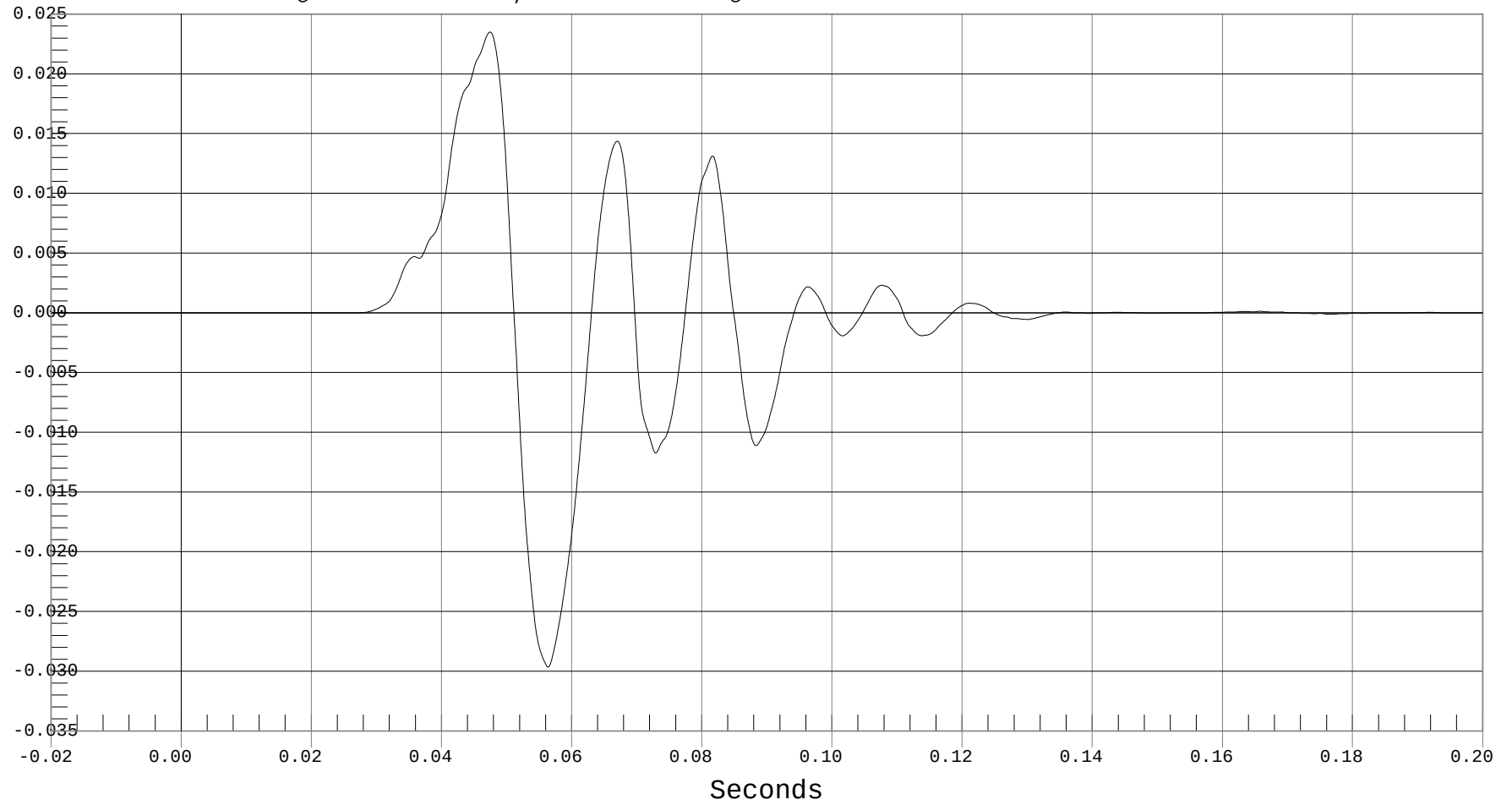
PASSENGER LOWER RIB VISCOUS CRITERIA

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 Viscous Criterion, B01102DV.C88

Ymin = -.03 @ 0.0563 Seconds, Ymax = .02 @ 0.0474 Seconds





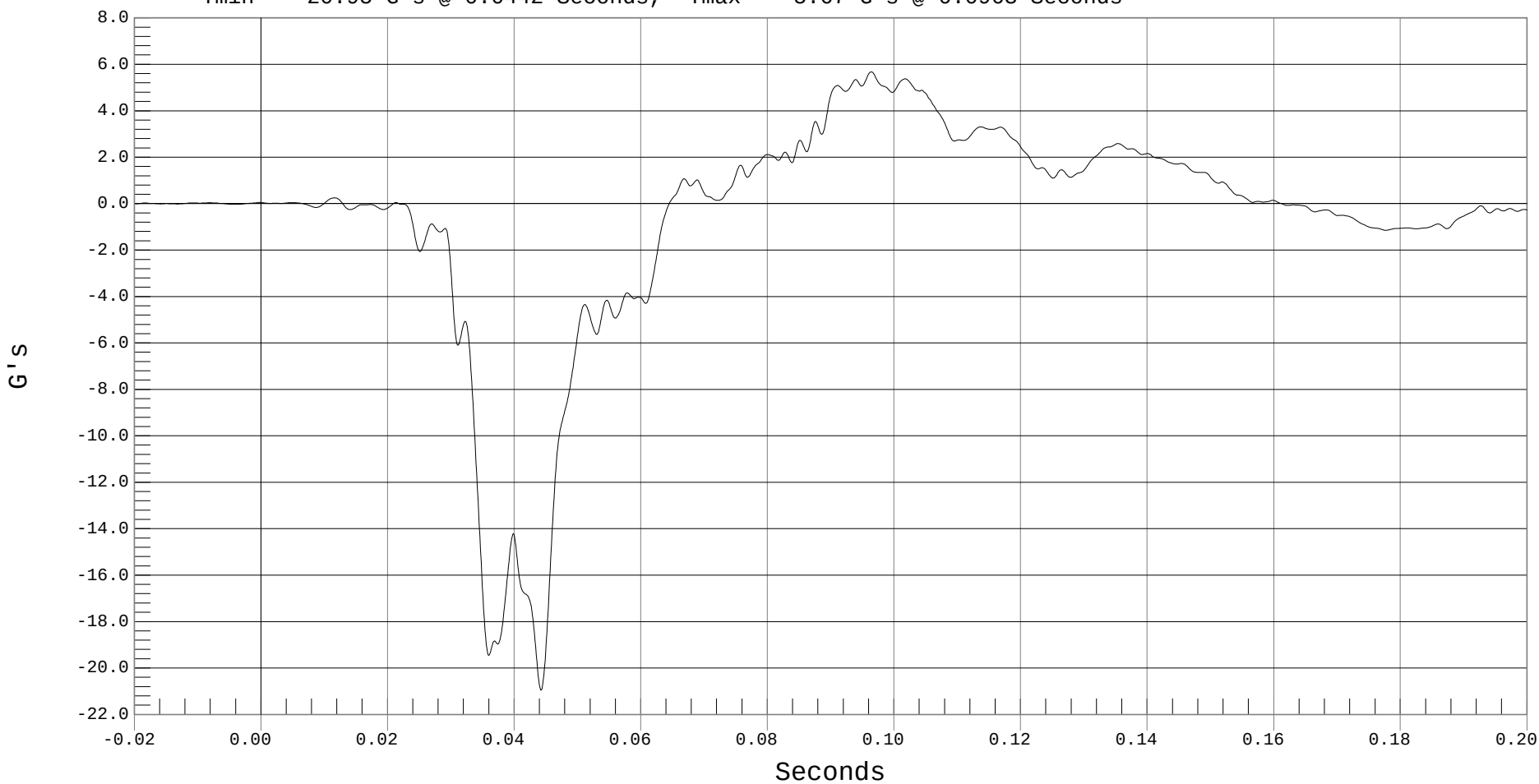
PASSENGER LOWER SPINE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

1 REAR PASSENGER LOWER SPINE X, B01102AF.A89

Ymin = -20.95 G's @ 0.0442 Seconds, Ymax = 5.67 G's @ 0.0963 Seconds





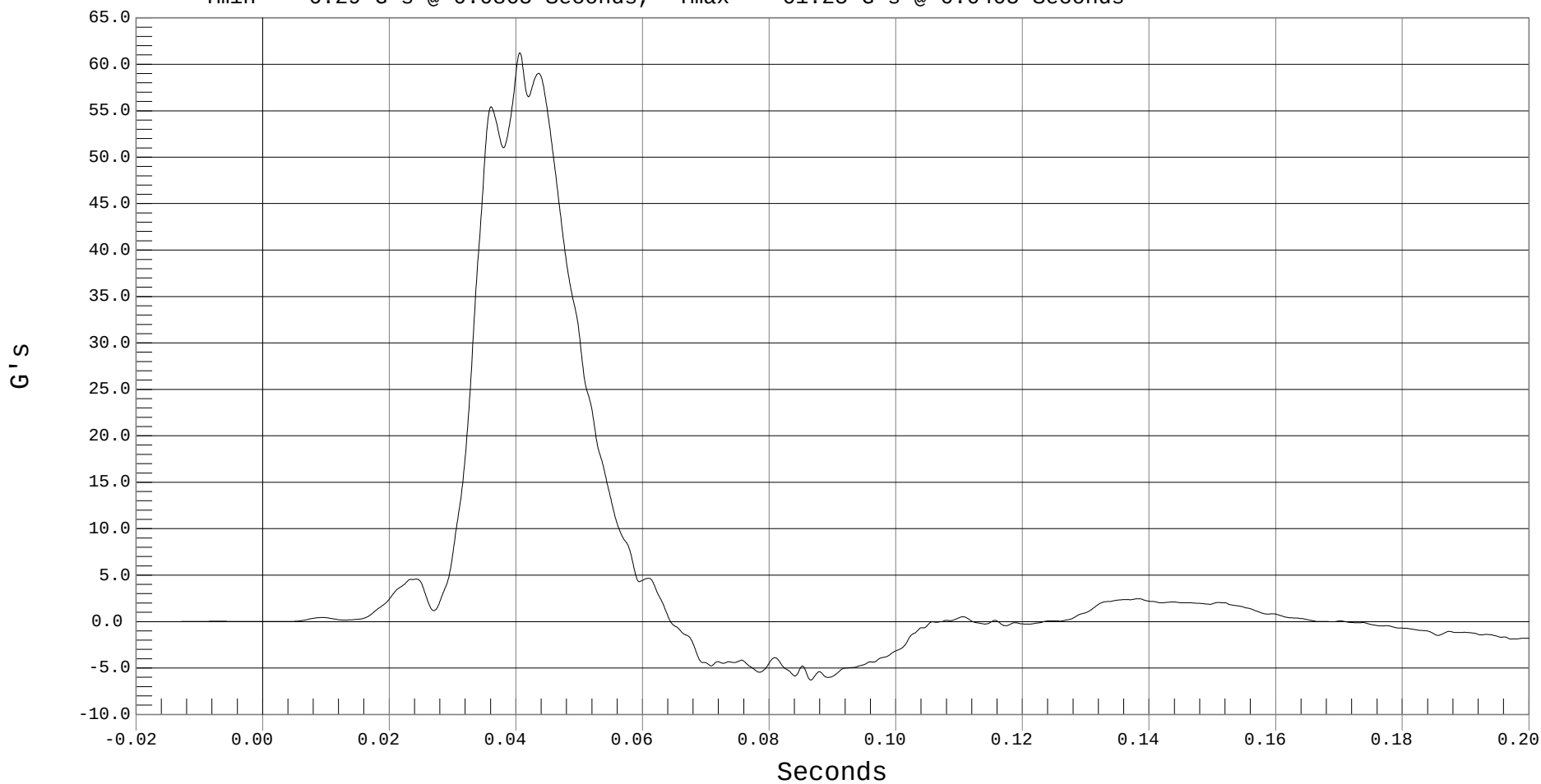
PASSENGER LOWER SPINE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER LOWER SPINE Z, B01102AF.A91

Ymin = -6.29 G's @ 0.0865 Seconds, Ymax = 61.25 G's @ 0.0405 Seconds





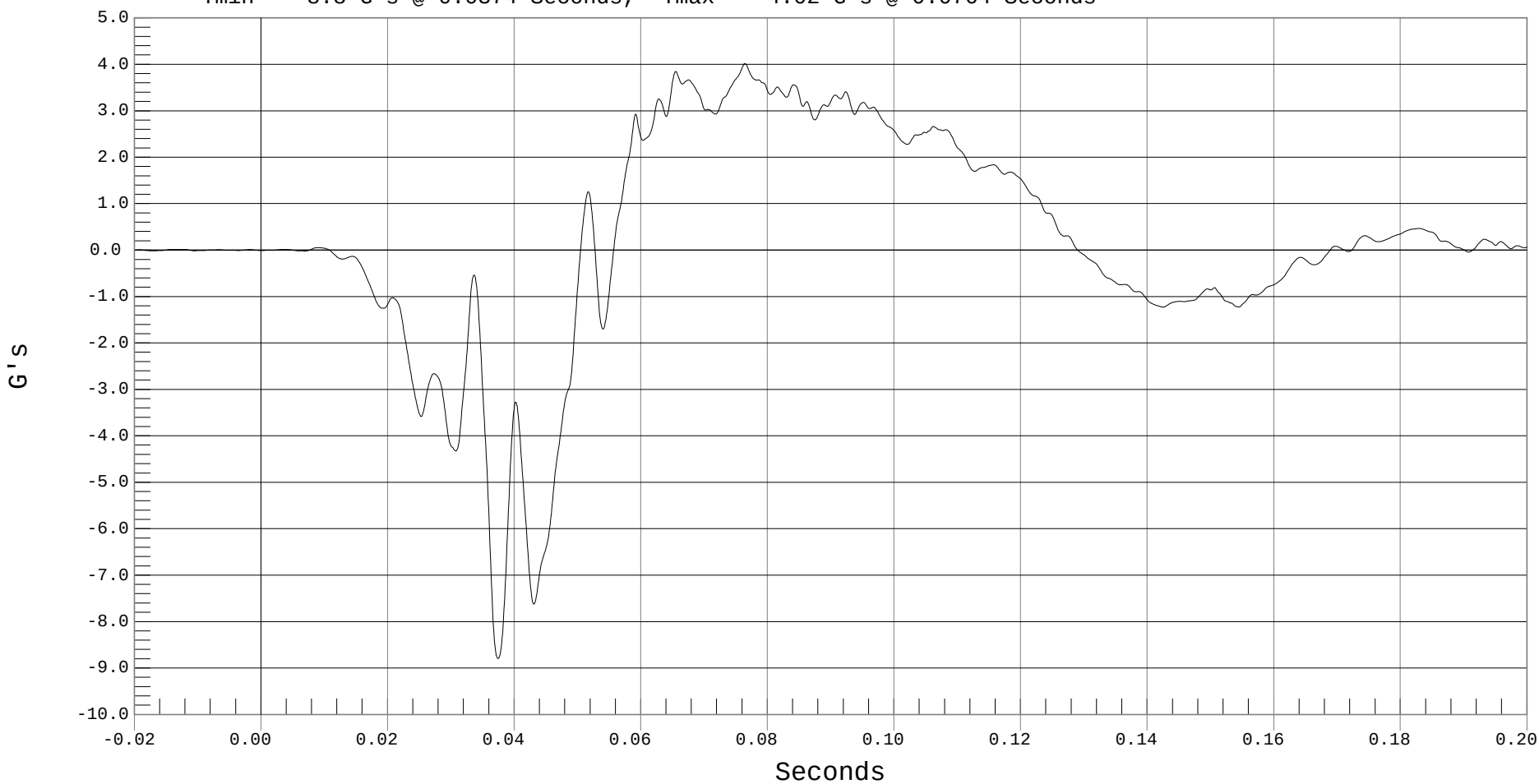
PASSENGER LOWER SPINE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR PASSENGER LOWER SPINE Y, B01102AF.A90

Ymin = -8.8 G's @ 0.0374 Seconds, Ymax = 4.02 G's @ 0.0764 Seconds





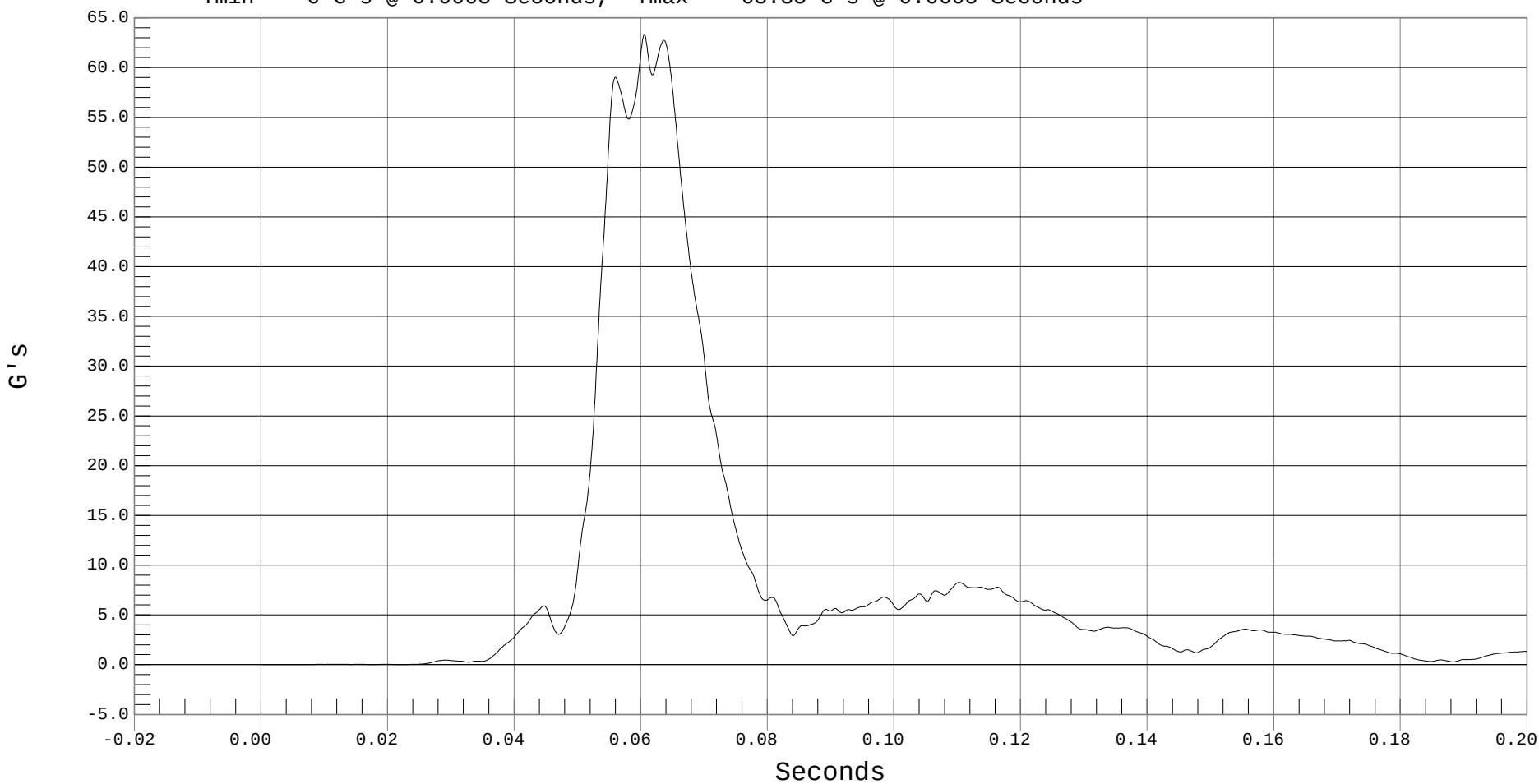
PASSENGER LOWER SPINE RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 PASSENGER LOWER SPINE RESULTANT, B01102AV.A89

Ymin = 0 G's @ 0.0005 Seconds, Ymax = 63.35 G's @ 0.0605 Seconds





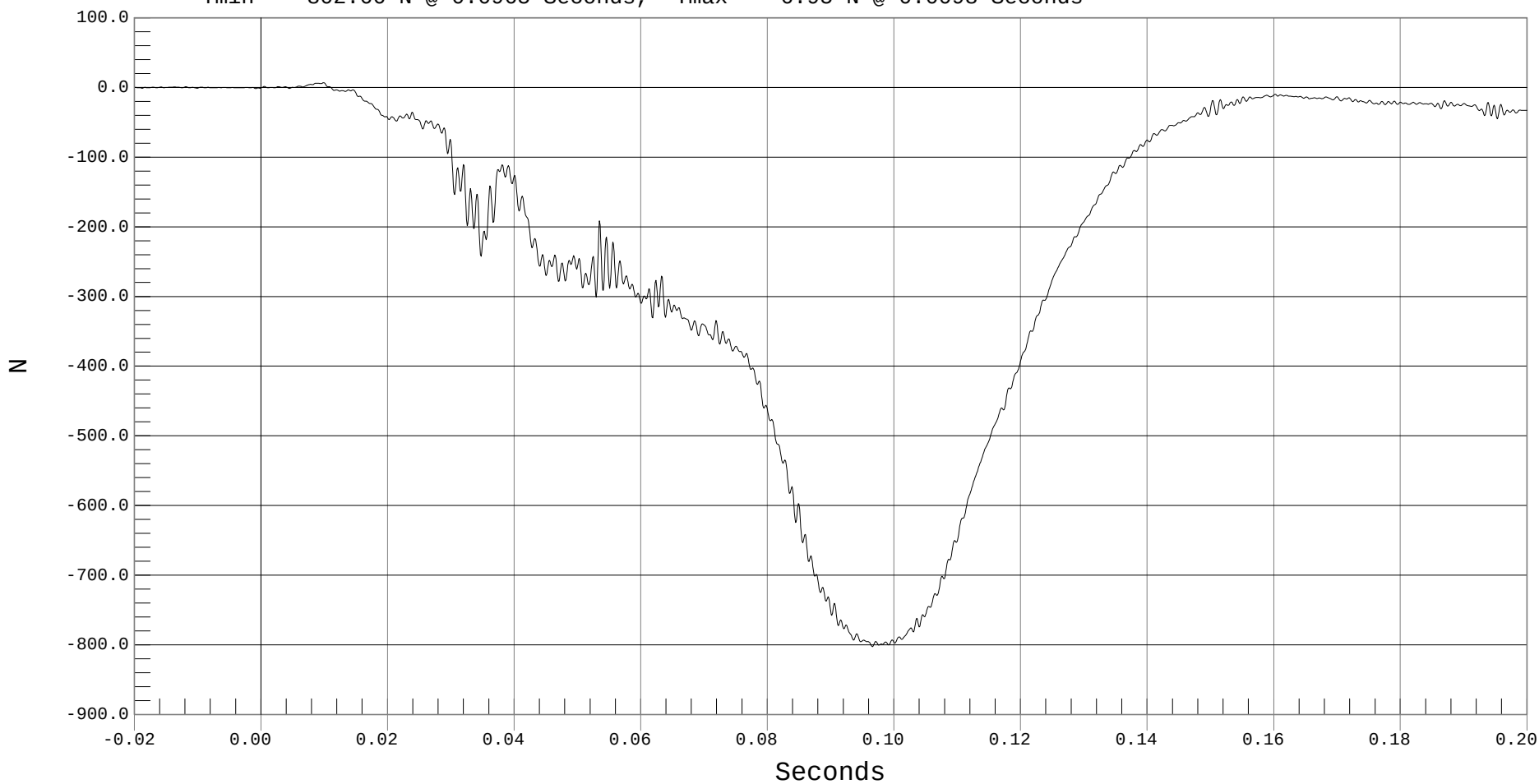
PASSENGER TORSO FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER TORSO FORCE X, B01102FF.F92

Ymin = -802.66 N @ 0.0965 Seconds, Ymax = 6.95 N @ 0.0098 Seconds





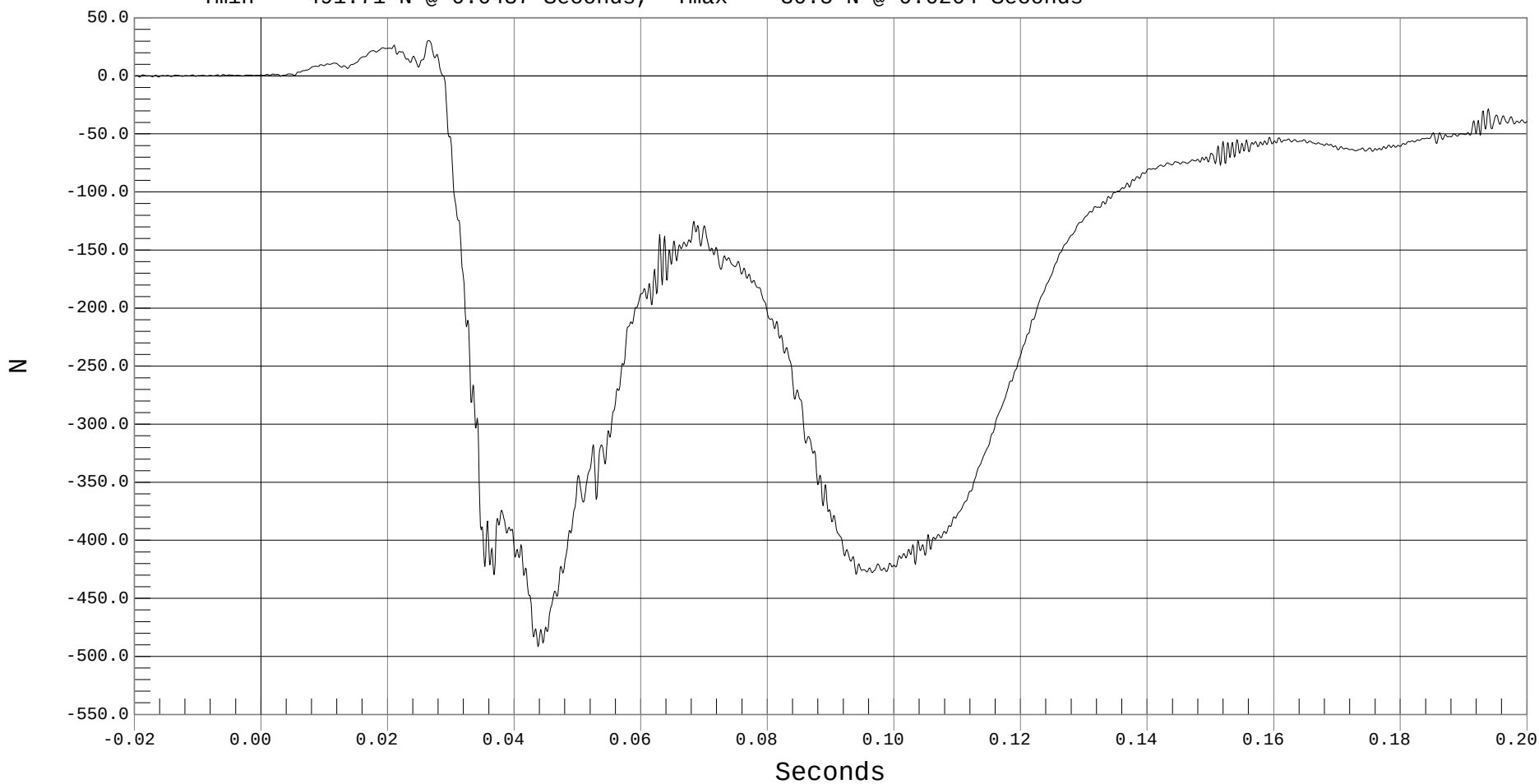
PASSENGER TORSO FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER TORSO FORCE Y, B01102FF.F93

Ymin = -491.71 N @ 0.0437 Seconds, Ymax = 30.5 N @ 0.0264 Seconds





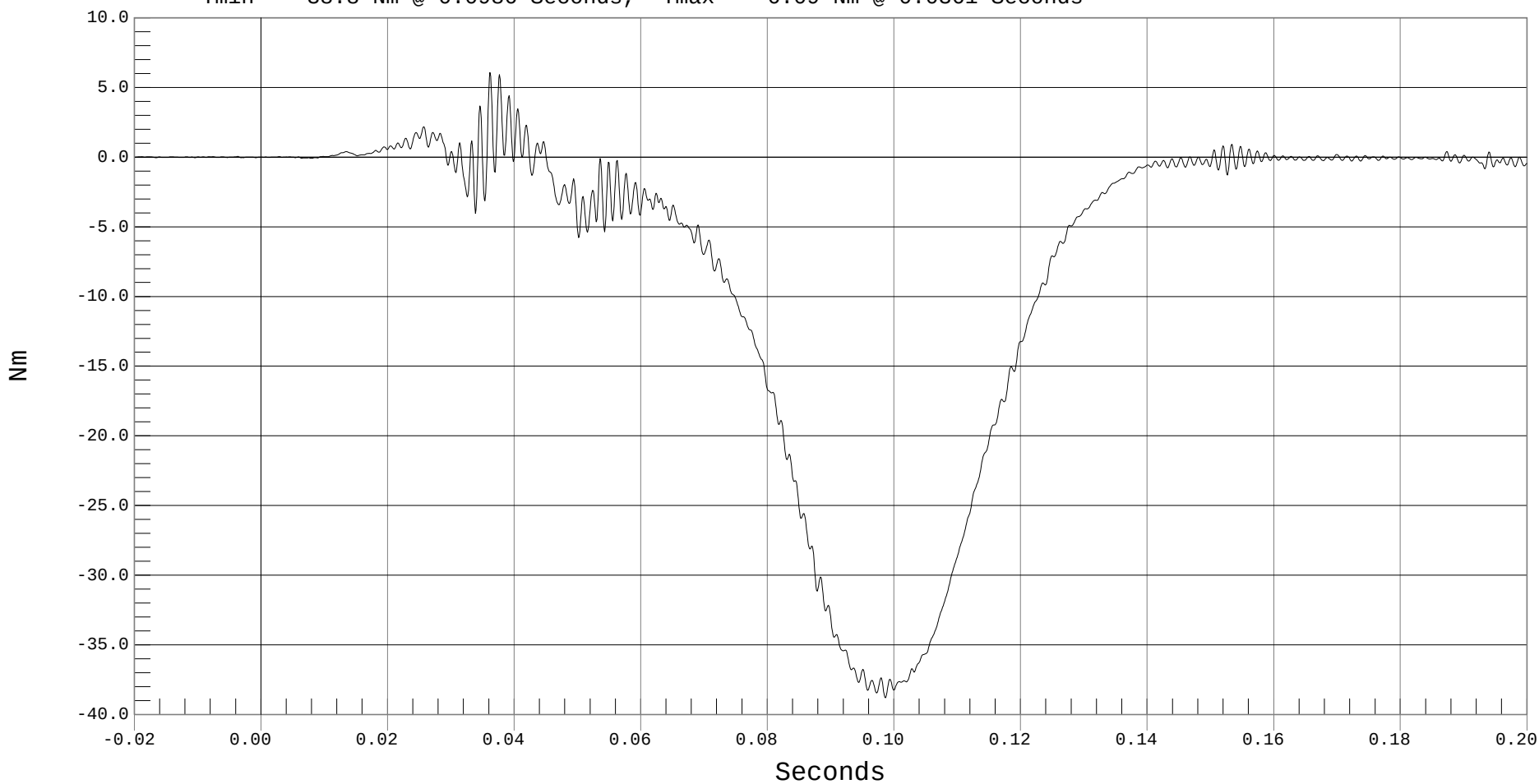
PASSENGER TORSO MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER TORSO MOMENT Y, B01102FF.F57

Ymin = -38.8 Nm @ 0.0986 Seconds, Ymax = 6.09 Nm @ 0.0361 Seconds





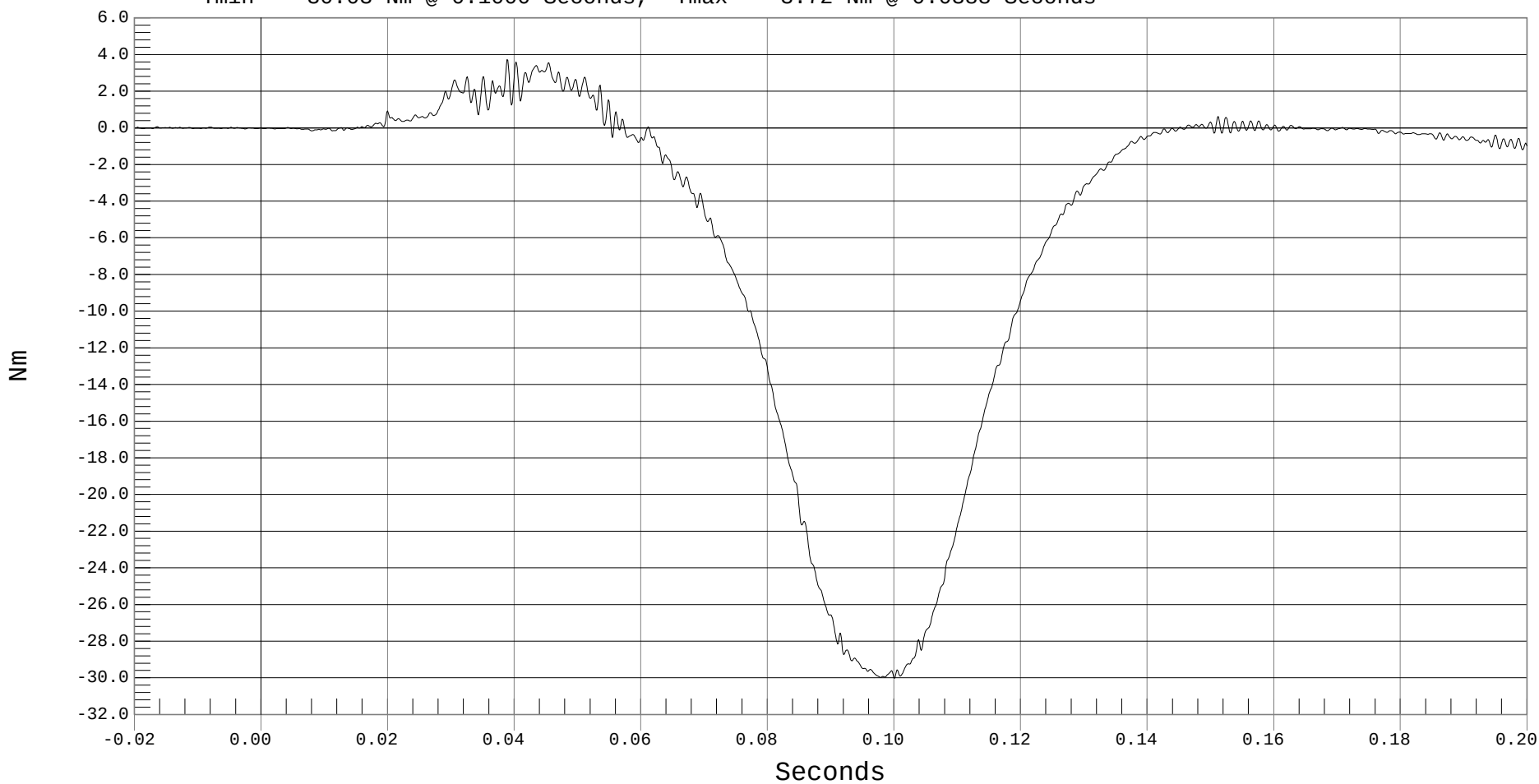
PASSENGER TORSO MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER TORSO MOMENT Z, B01102MF.M58

Ymin = -30.03 Nm @ 0.1000 Seconds, Ymax = 3.72 Nm @ 0.0388 Seconds





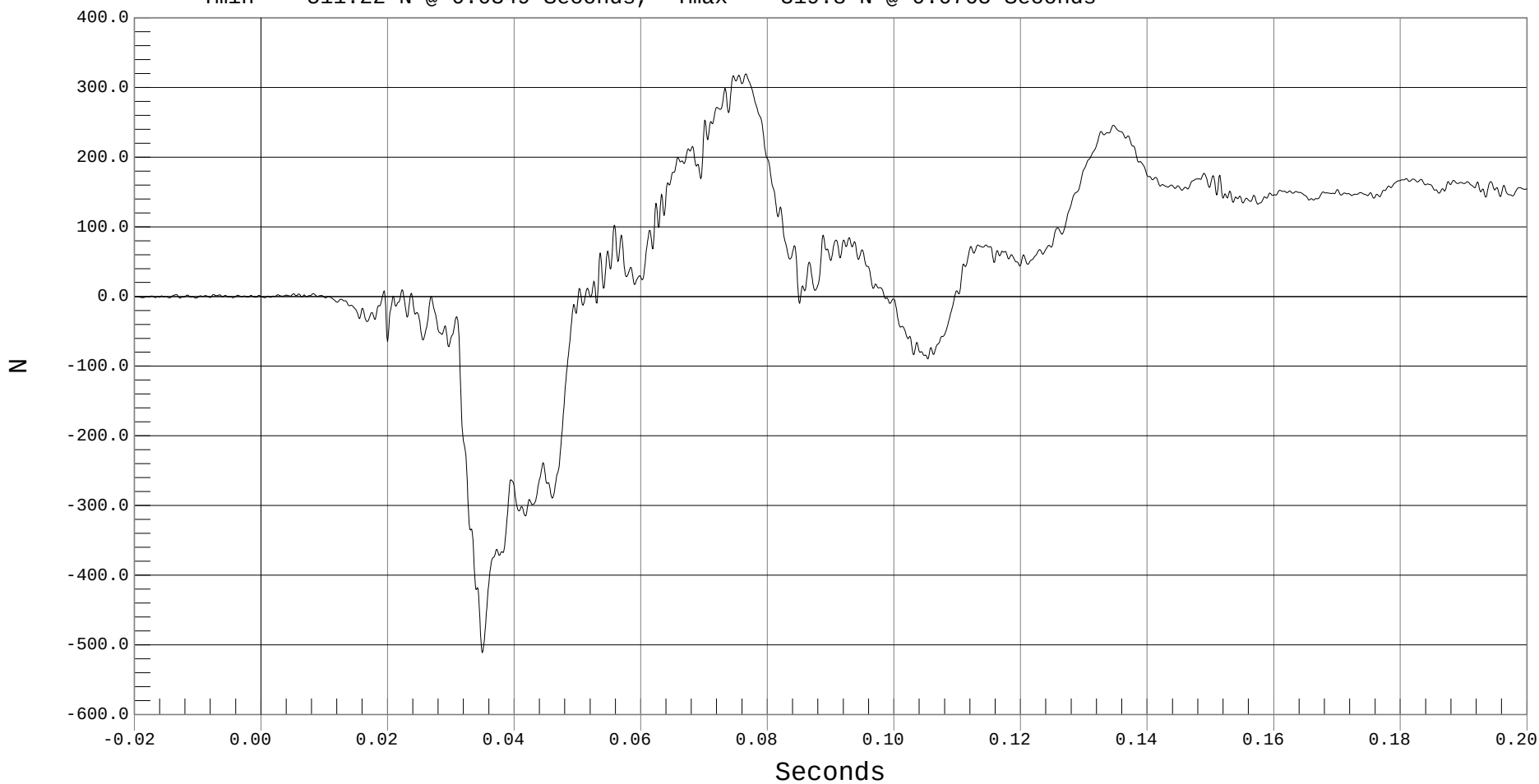
PASSENGER T-12 FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER T-12 FORCE X, B01102FF.F02

Ymin = -511.22 N @ 0.0349 Seconds, Ymax = 319.8 N @ 0.0765 Seconds





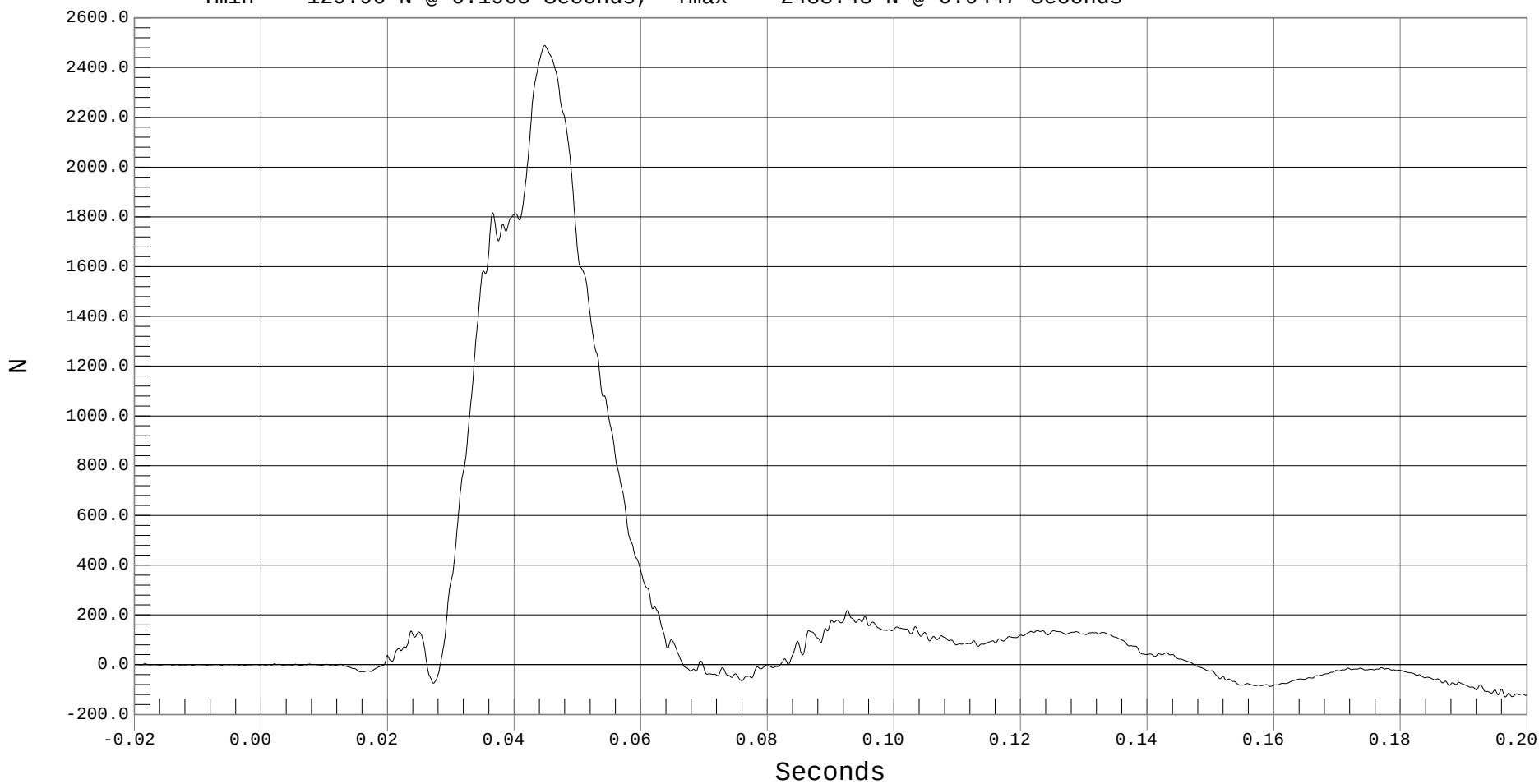
PASSENGER T-12 FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER T-12 FORCE Y, B01102FF.F03

Ymin = -129.96 N @ 0.1965 Seconds, Ymax = 2488.43 N @ 0.0447 Seconds





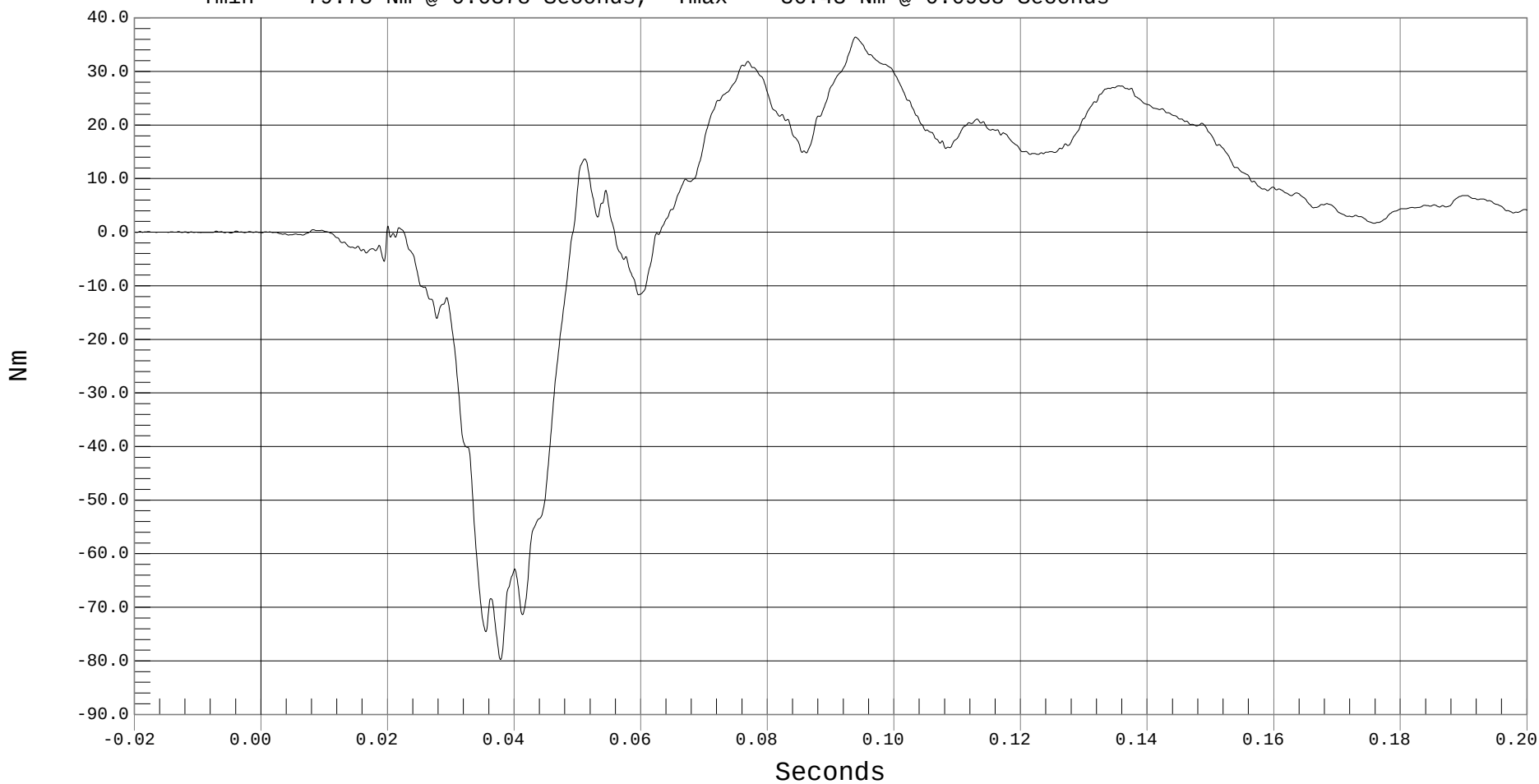
PASSENGER T-12 MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 REAR PASSENGER T-12 MOMENT Y, B01102MF.M05

Ymin = -79.78 Nm @ 0.0378 Seconds, Ymax = 36.43 Nm @ 0.0938 Seconds





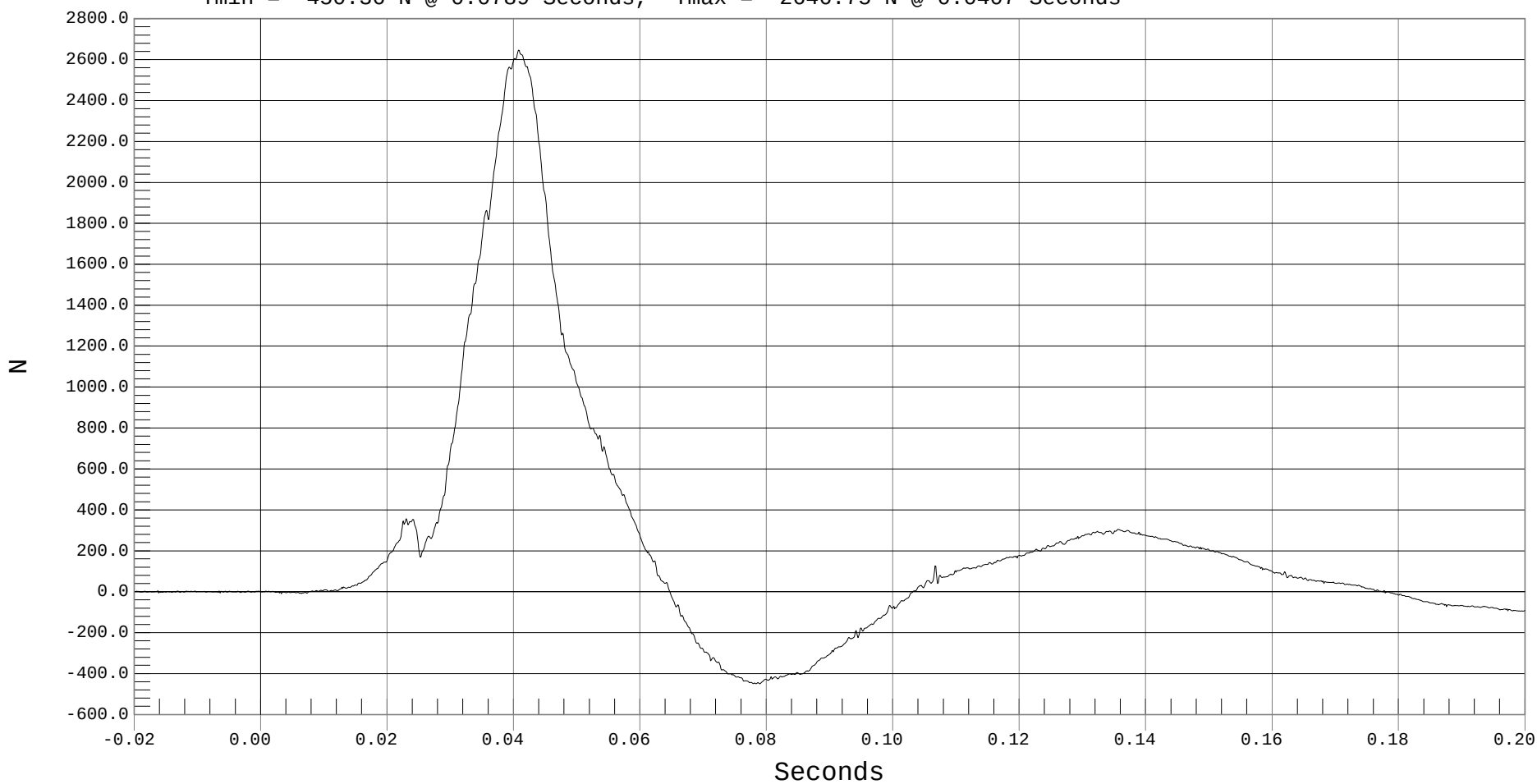
PASSENGER LUMBAR FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER LUMBAR FORCE Y, B01102FT.F59

Ymin = -450.36 N @ 0.0789 Seconds, Ymax = 2646.75 N @ 0.0407 Seconds





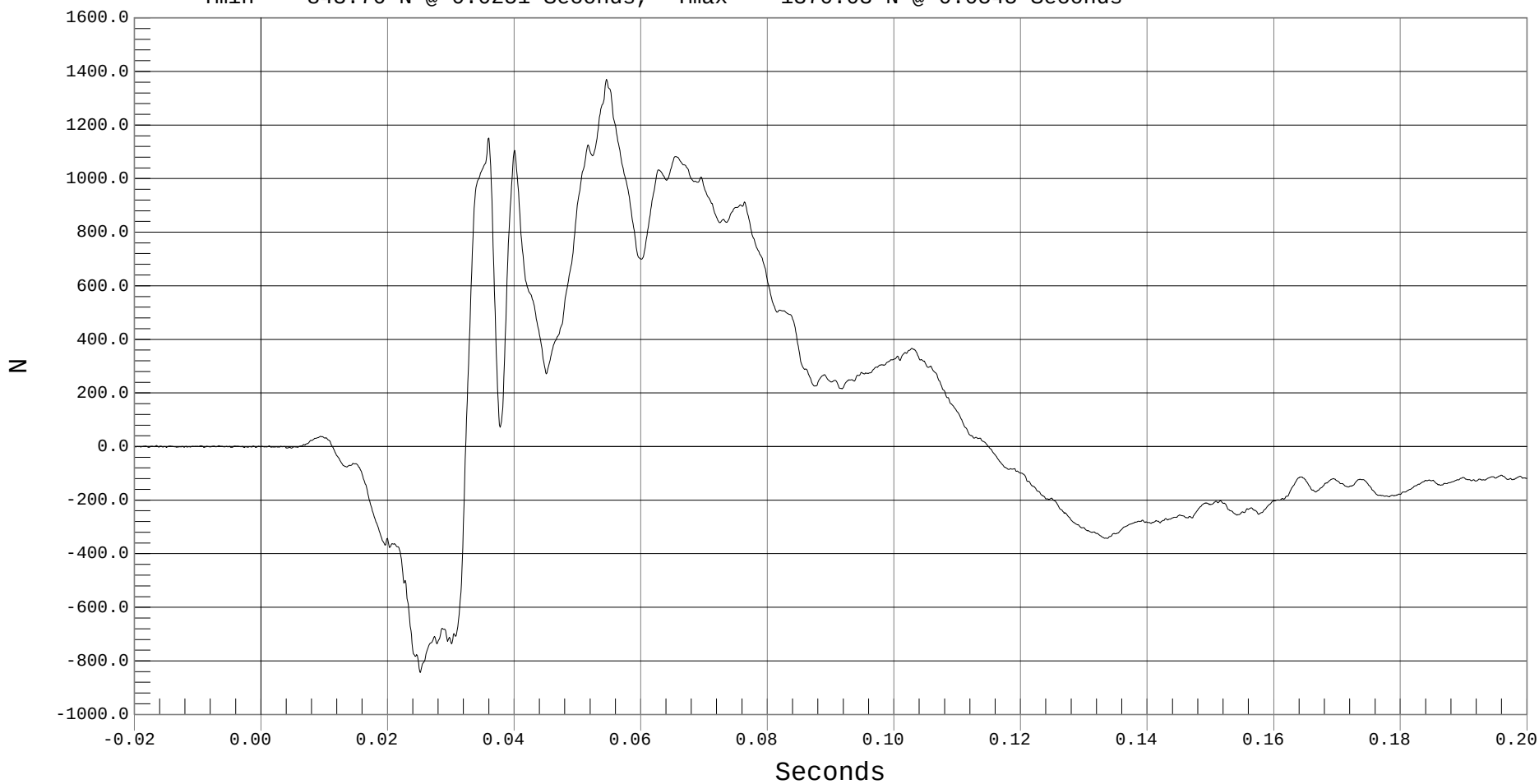
PASSENGER LUMBAR FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER LUMBAR FORCE Z, B01102FT.F60

Ymin = -843.76 N @ 0.0251 Seconds, Ymax = 1370.03 N @ 0.0545 Seconds





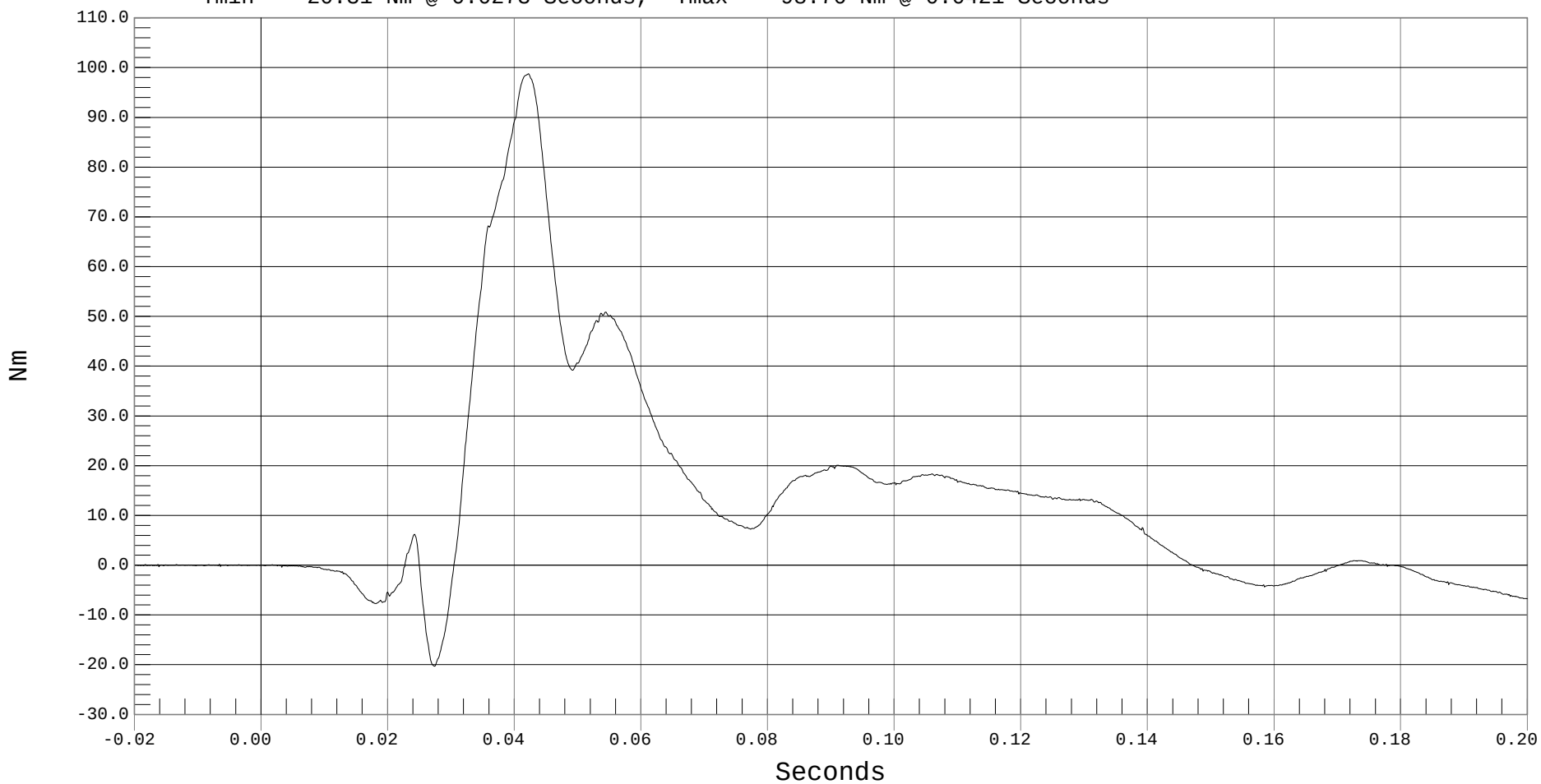
PASSENGER LUMBAR MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER LUMBAR MOMENT X, B01102MT.M61

Ymin = -20.31 Nm @ 0.0273 Seconds, Ymax = 98.76 Nm @ 0.0421 Seconds





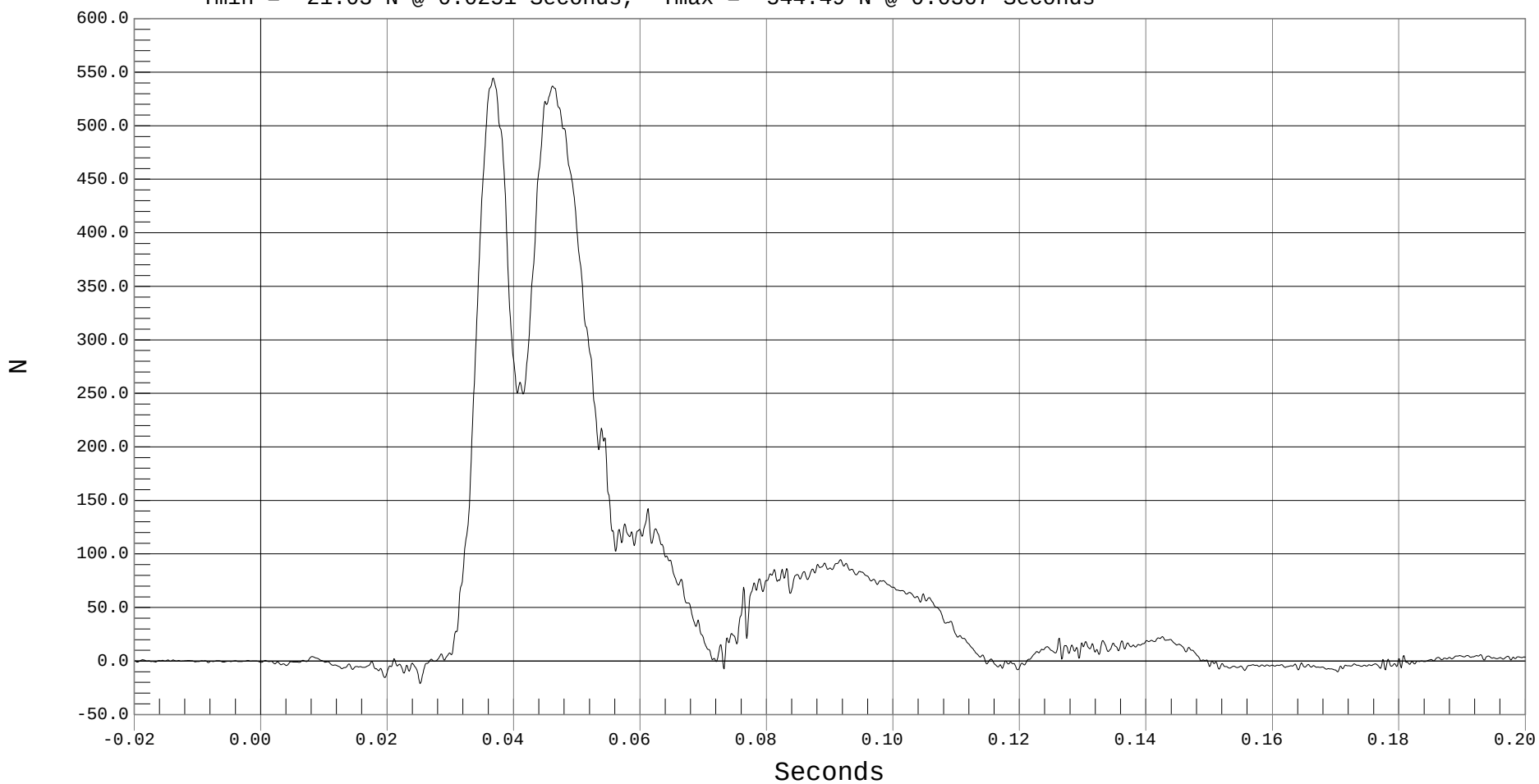
PASSENGER ABDOMEN FRONT FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER FRONT ABDOMEN FORCE, B01102FF.F06

Ymin = -21.03 N @ 0.0251 Seconds, Ymax = 544.49 N @ 0.0367 Seconds





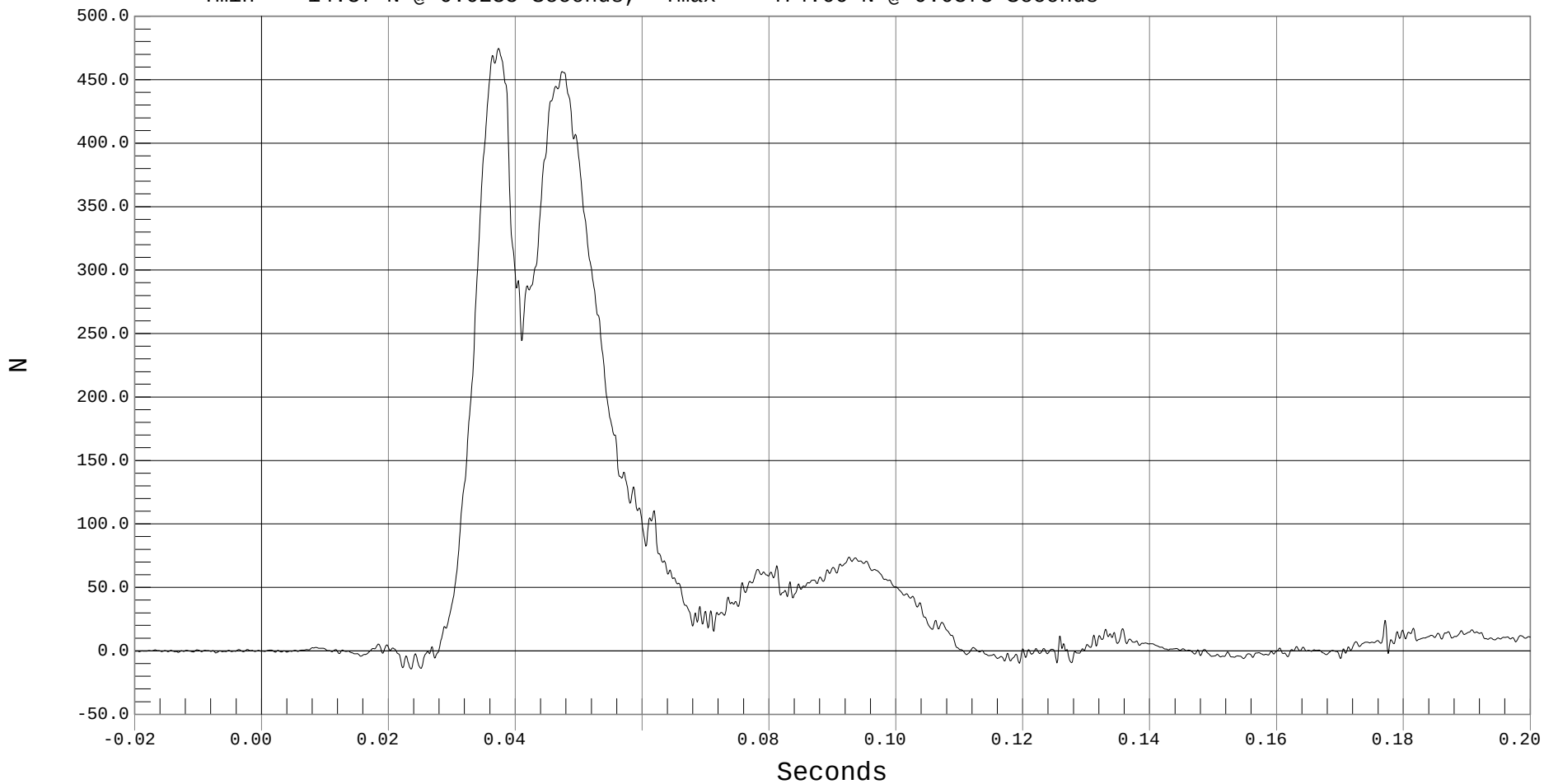
PASSENGER ABDOMEN MID FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER MID ABDOMEN FORCE, B01102FF.F07

Ymin = -14.37 N @ 0.0235 Seconds, Ymax = 474.66 N @ 0.0373 Seconds





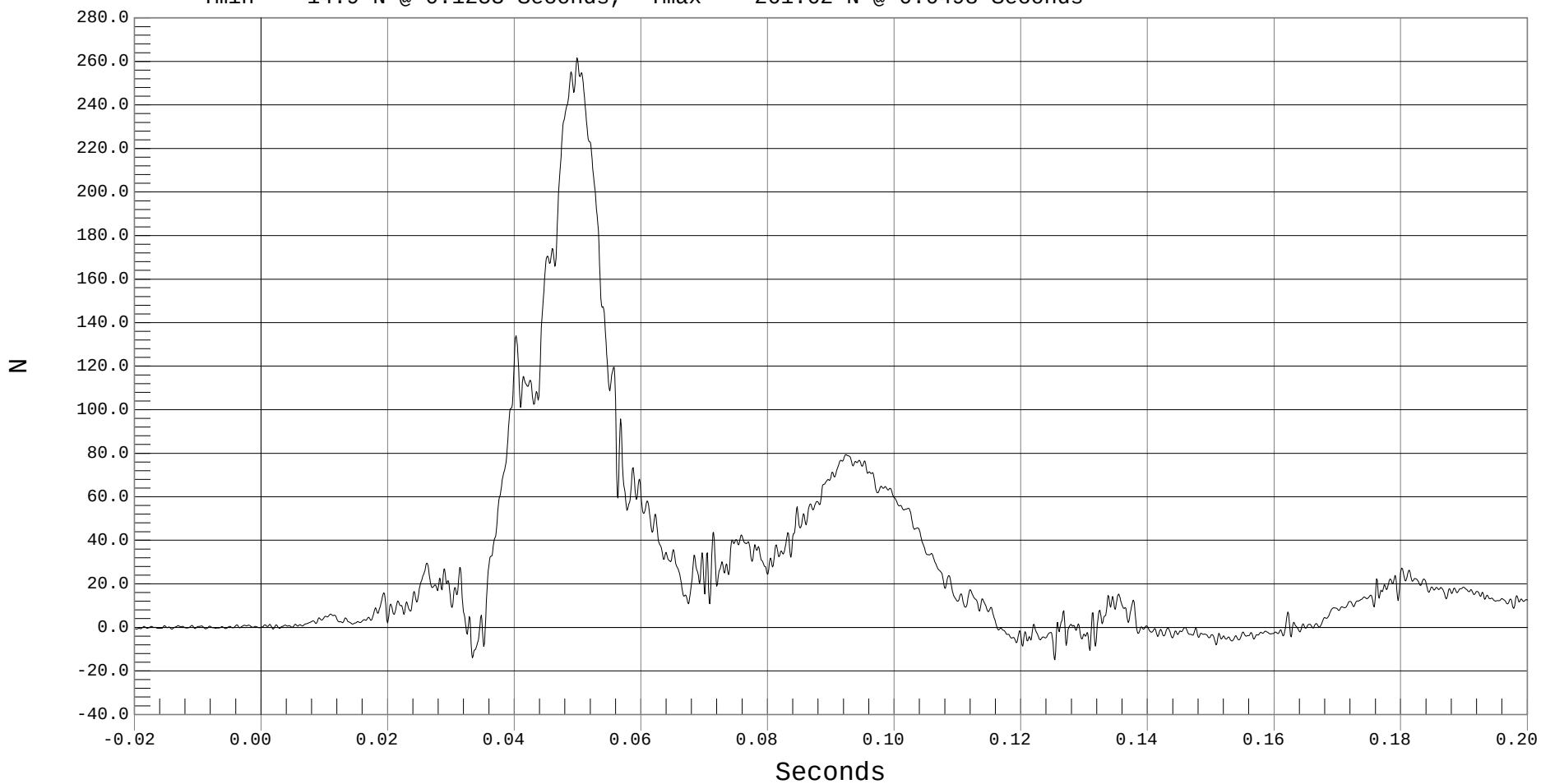
PASSENGER ABDOMEN REAR FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER REAR ABDOMEN FORCE, B01102FF.F08

Ymin = -14.9 N @ 0.1253 Seconds, Ymax = 261.62 N @ 0.0498 Seconds





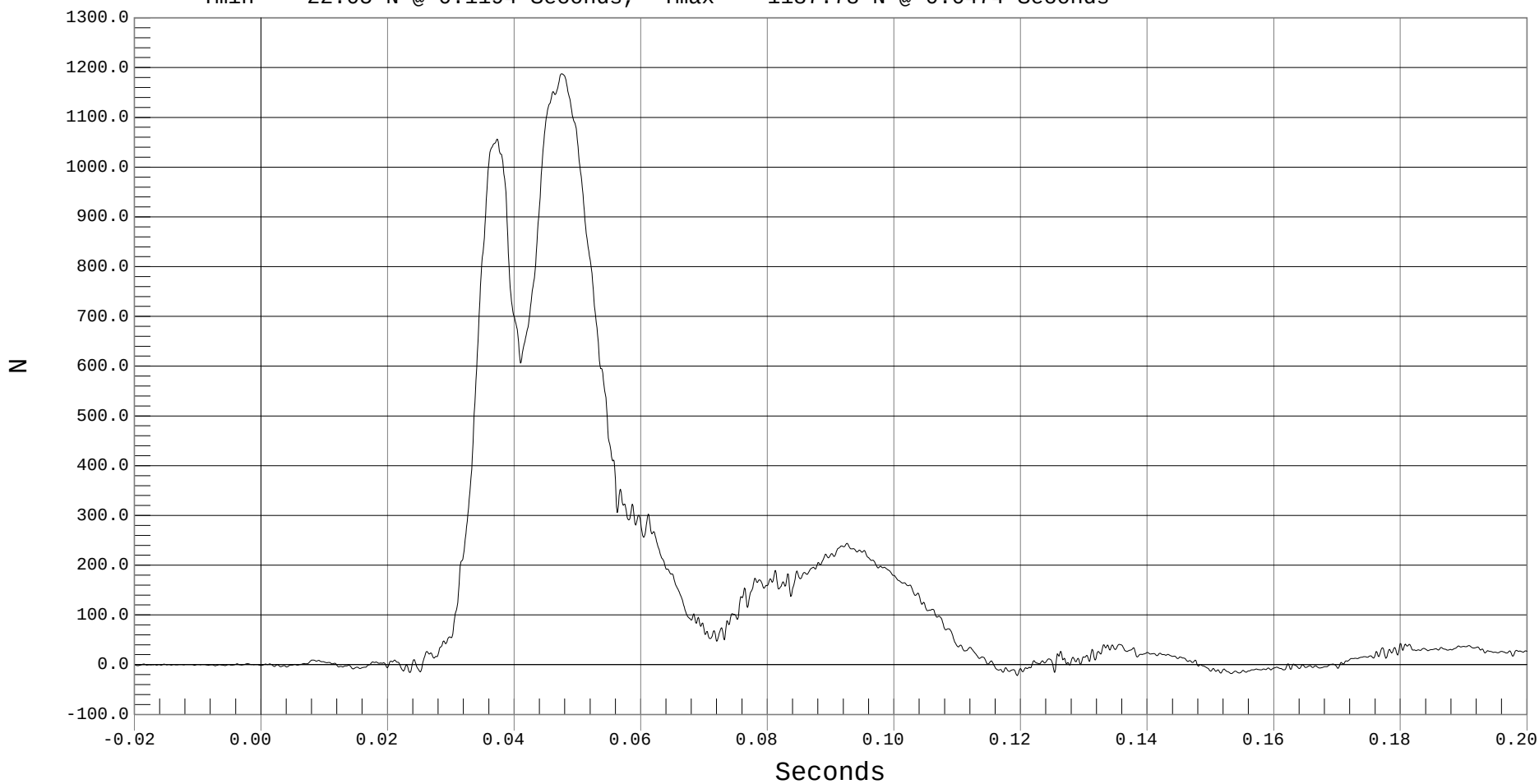
PASSENGER SUMMED ABDOMEN FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 PASSENGER SUMMED ABDOMEN FORCE, B01102FU.F06

Ymin = -22.05 N @ 0.1194 Seconds, Ymax = 1187.78 N @ 0.0474 Seconds





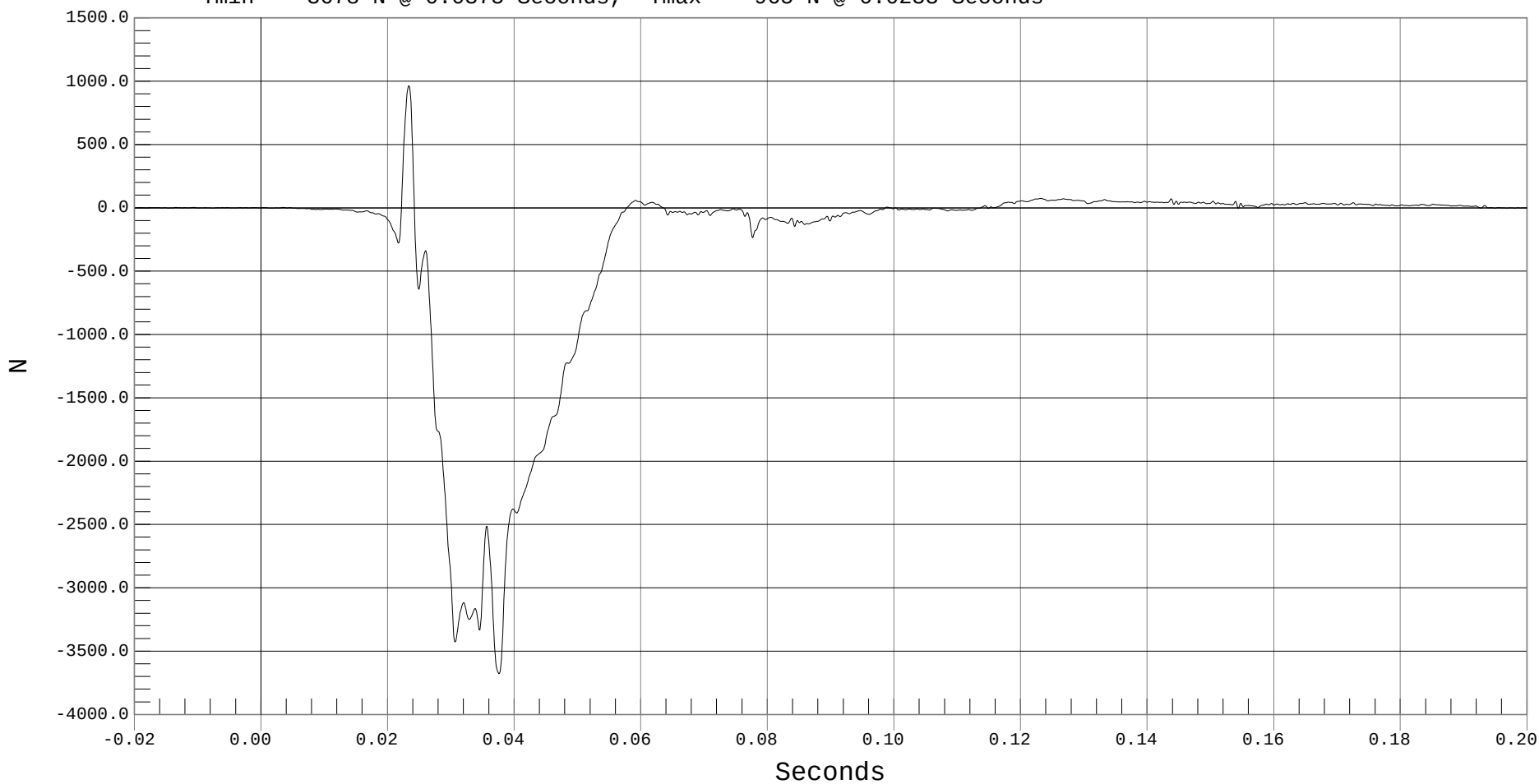
PASSENGER PUBIC SYMPHYSIS FORCE

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER PUBIC SYMPHYSIS FORC, B01102FF.F09

Ymin = -3678 N @ 0.0375 Seconds, Ymax = 965 N @ 0.0233 Seconds





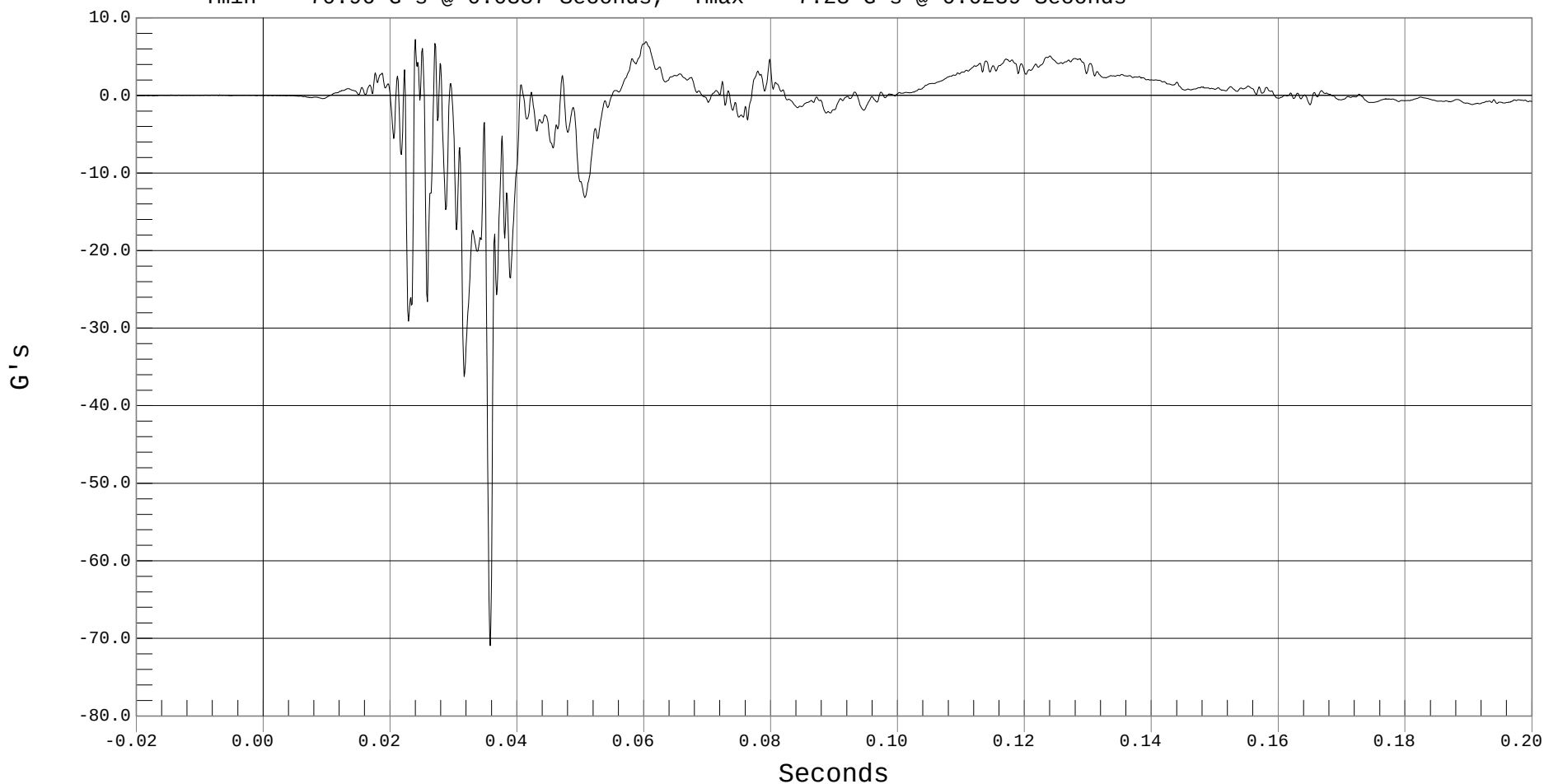
PASSENGER PELVIS X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

1 REAR PASSENGER PELVIS X, B01102AT.A10

Ymin = -70.96 G's @ 0.0357 Seconds, Ymax = 7.23 G's @ 0.0239 Seconds





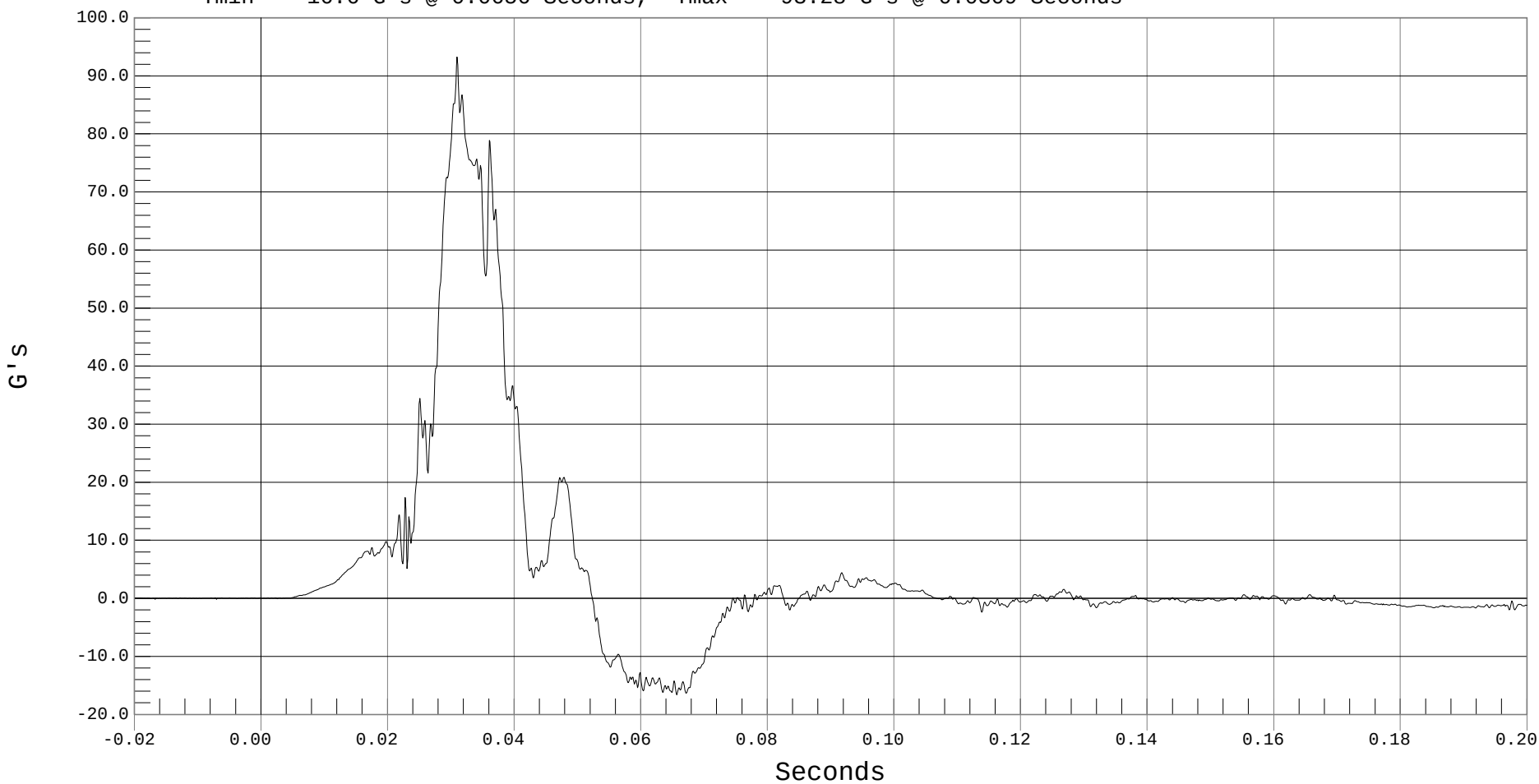
PASSENGER PELVIS Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER PELVIS Y, B01102AT.A11

Ymin = -16.6 G's @ 0.0656 Seconds, Ymax = 93.28 G's @ 0.0309 Seconds





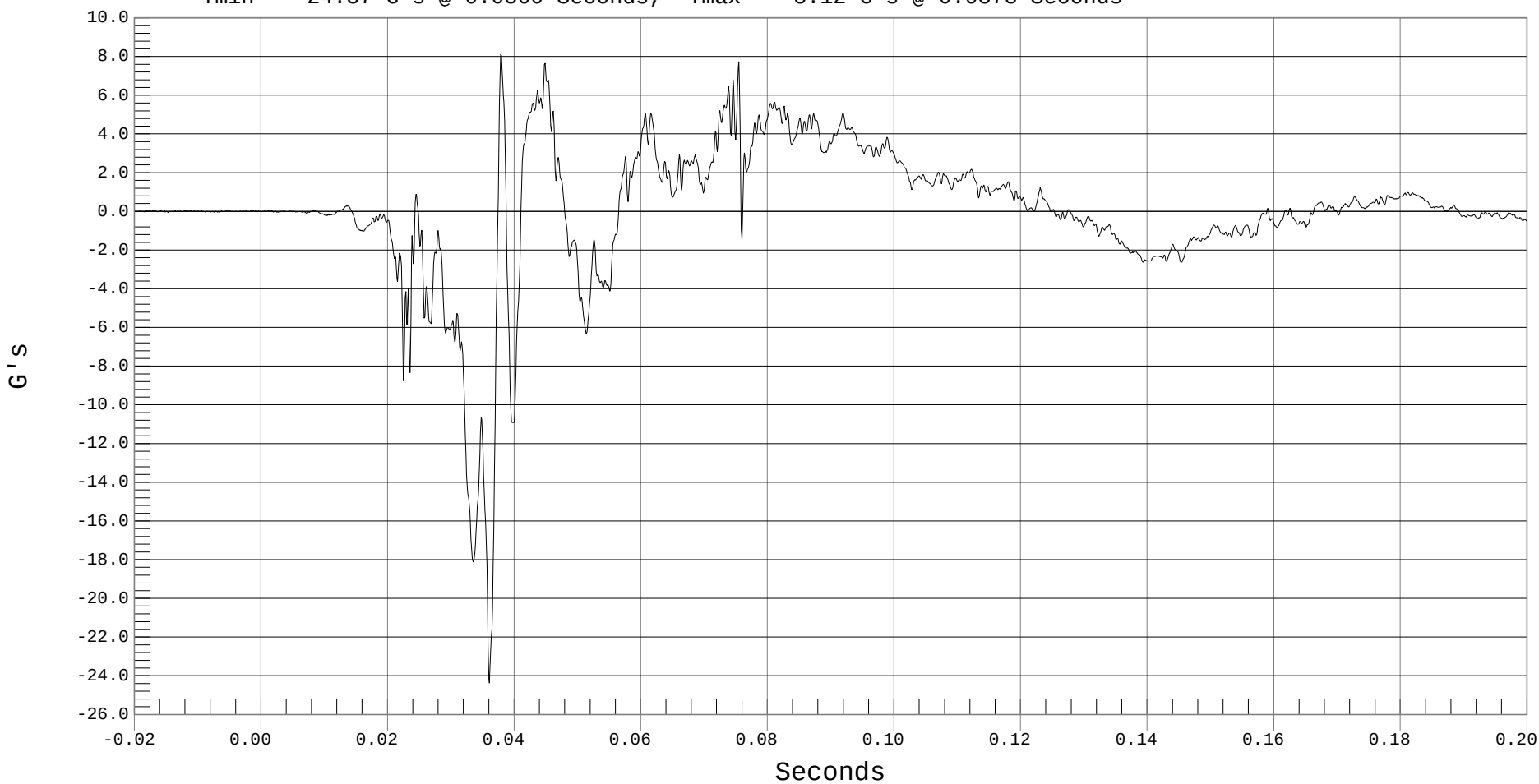
PASSENGER PELVIS Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER PELVIS Z, B01102AT.A12

Ymin = -24.37 G's @ 0.0360 Seconds, Ymax = 8.12 G's @ 0.0378 Seconds





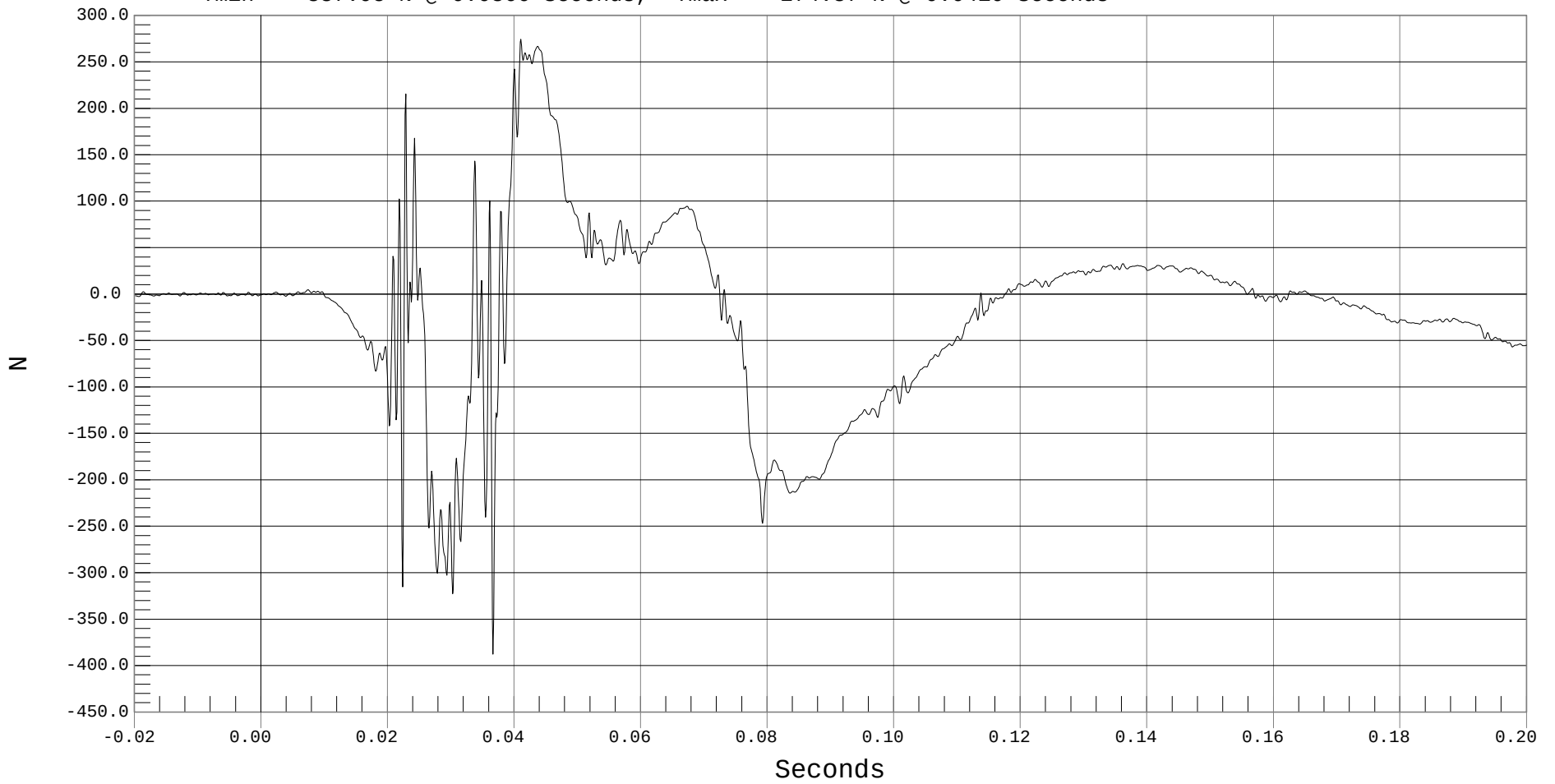
PASSENGER LEFT FEMUR FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER LEFT FEMUR FORCE X, B01102FF.F19

Ymin = -387.95 N @ 0.0366 Seconds, Ymax = 274.37 N @ 0.0410 Seconds





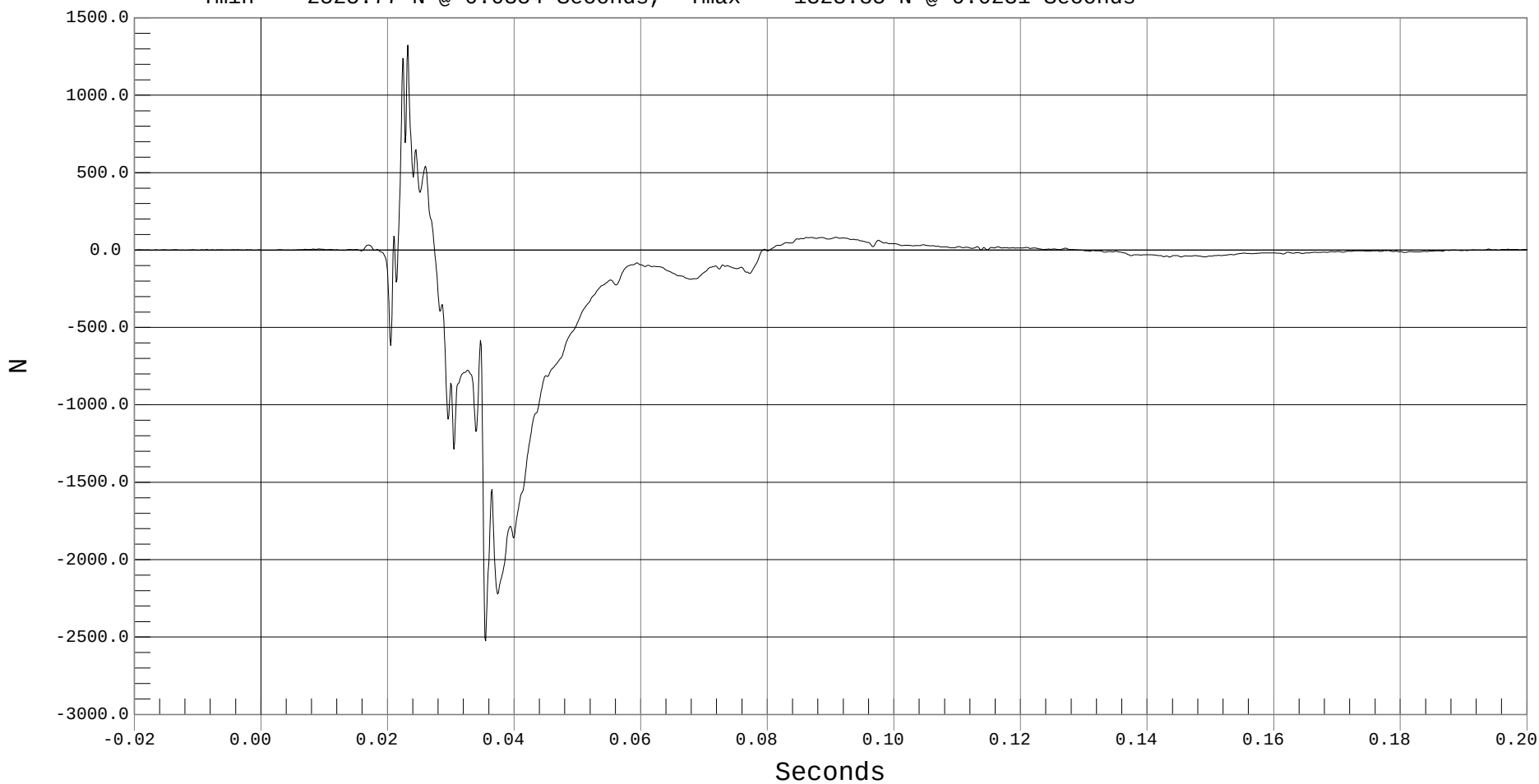
PASSENGER LEFT FEMUR FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER LEFT FEMUR FORCE Y, B01102FF.F20

Ymin = -2525.77 N @ 0.0354 Seconds, Ymax = 1323.85 N @ 0.0231 Seconds





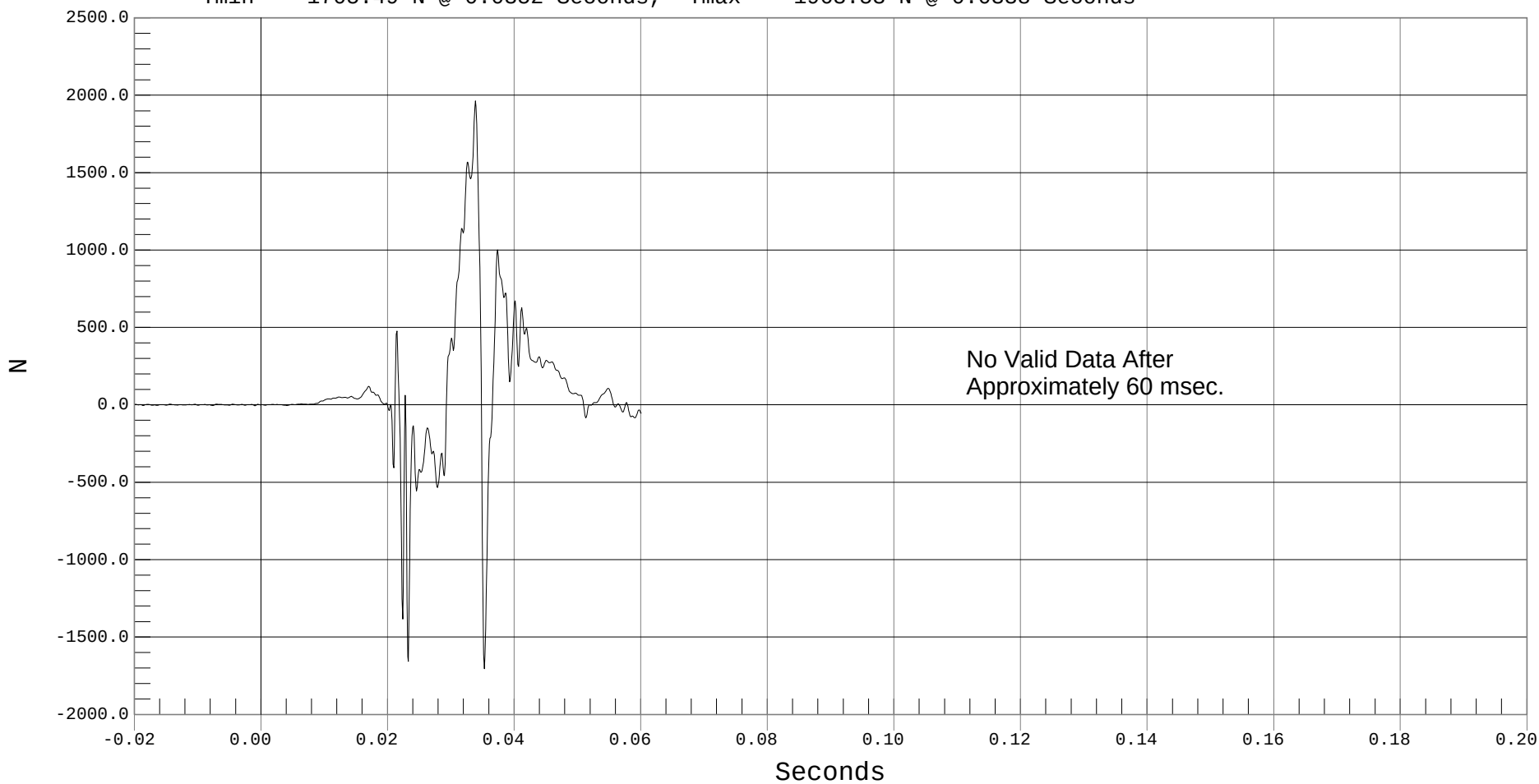
PASSENGER LEFT FEMUR FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER LEFT FEMUR FORCE Z, B01102FF.F21

Ymin = -1705.49 N @ 0.0352 Seconds, Ymax = 1963.53 N @ 0.0338 Seconds





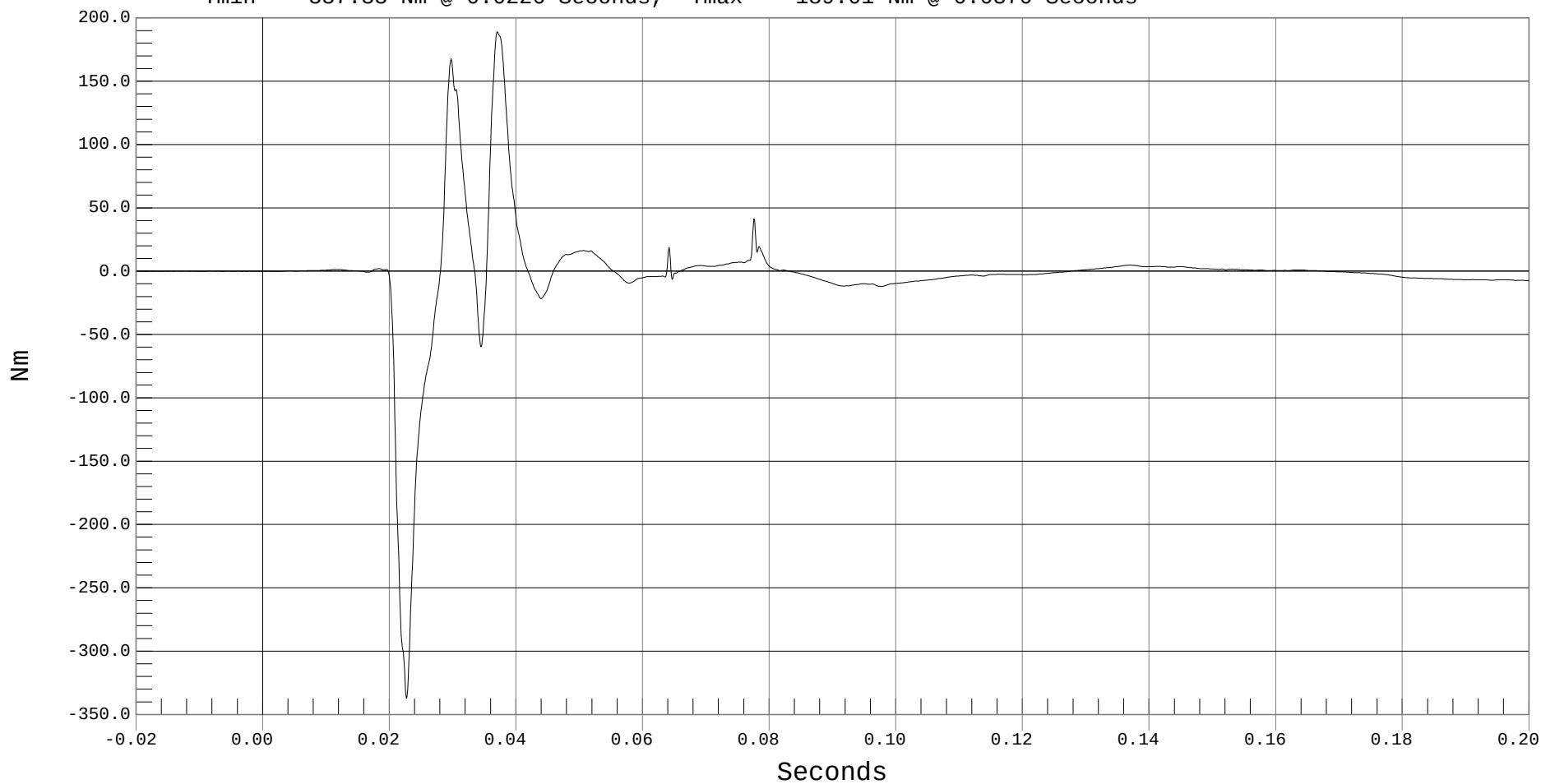
PASSENGER LEFT FEMUR MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 REAR PASSENGER LEFT FEMUR MOMENT X, B01102FF.F22

Ymin = -337.33 Nm @ 0.0226 Seconds, Ymax = 189.01 Nm @ 0.0370 Seconds





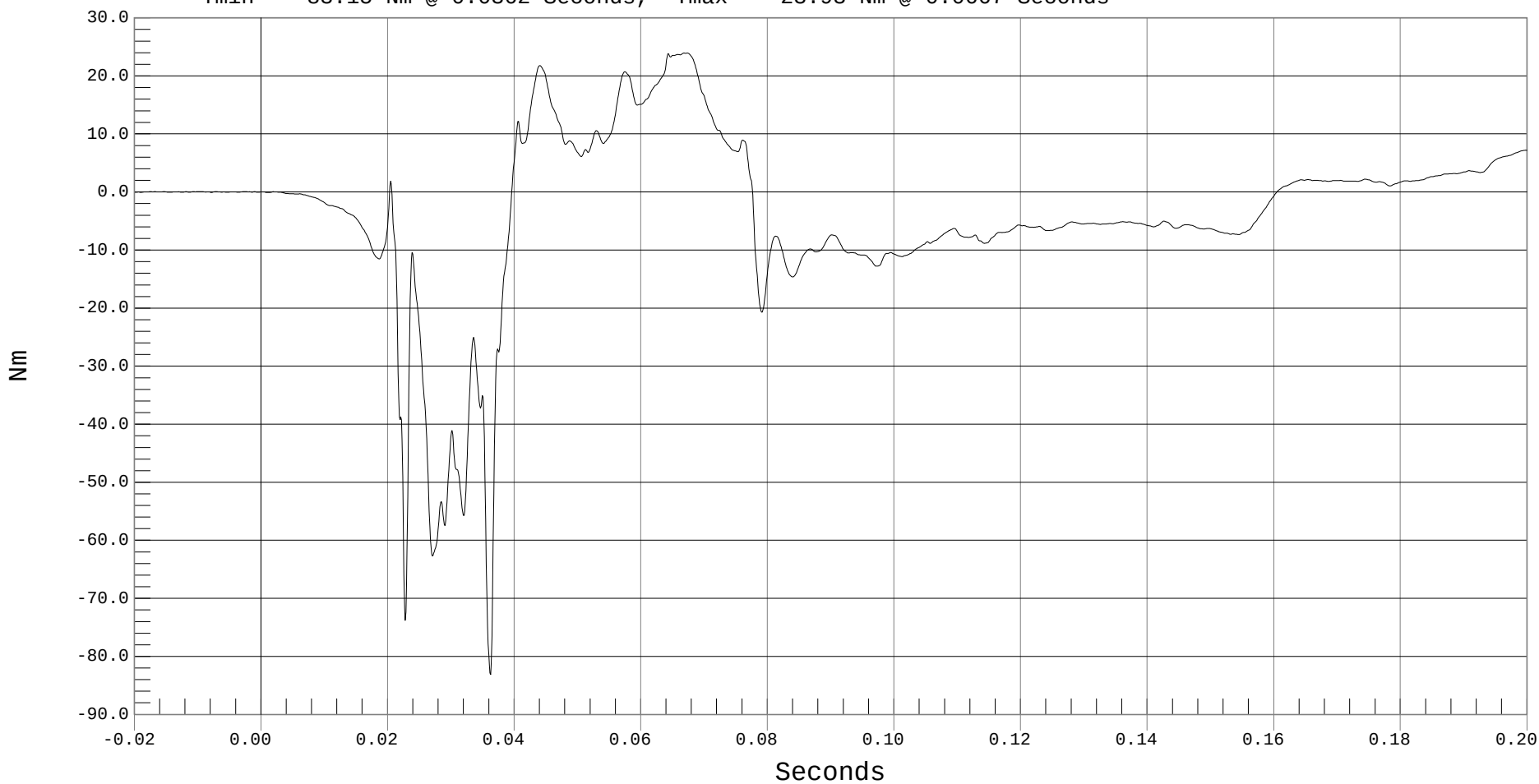
PASSENGER LEFT FEMUR MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER LEFT FEMUR MOMENT Y, B01102FF.F23

Ymin = -83.15 Nm @ 0.0362 Seconds, Ymax = 23.93 Nm @ 0.0667 Seconds





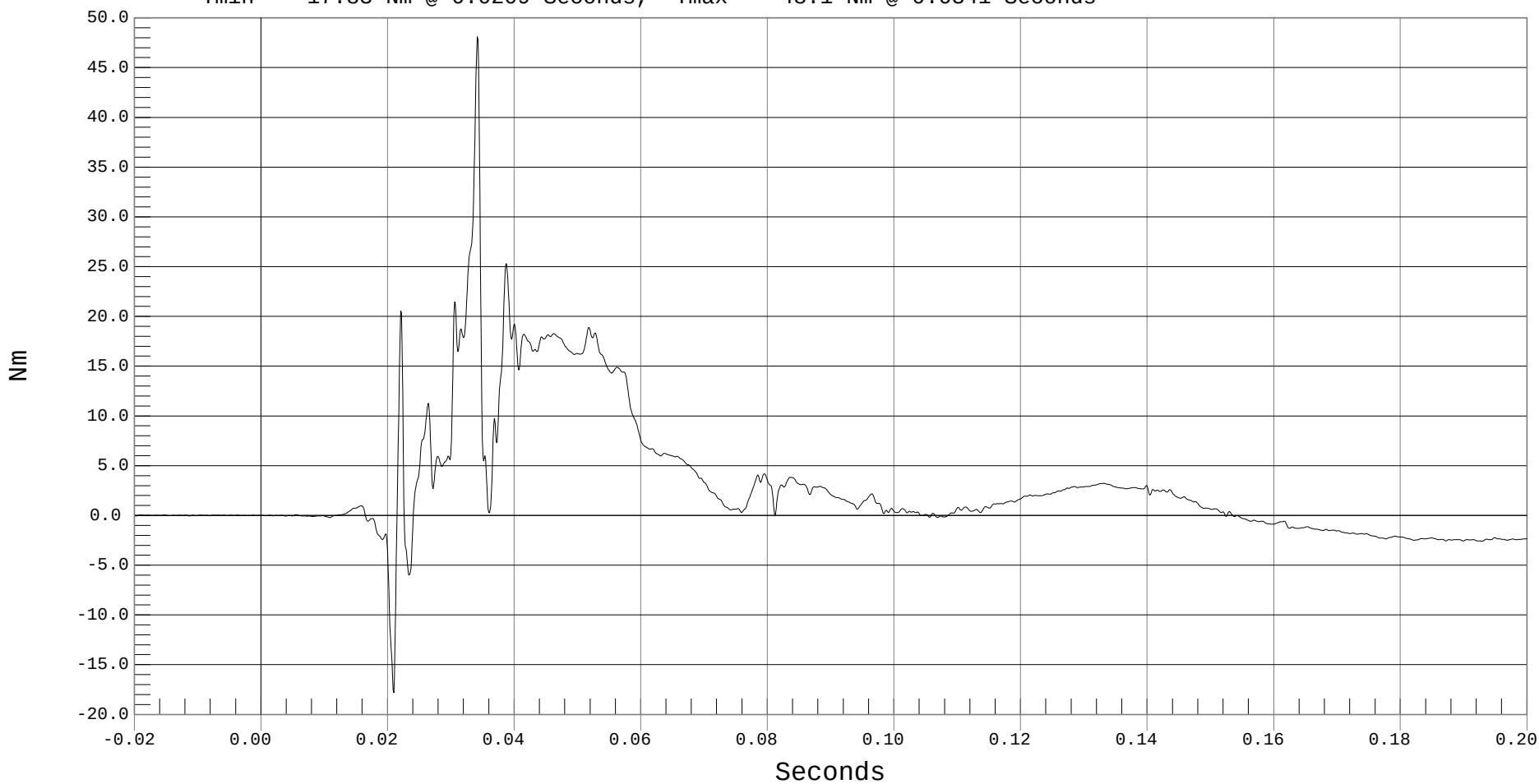
PASSENGER LEFT FEMUR MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER LEFT FEMUR MOMENT Z, B01102FF.F24

Ymin = -17.83 Nm @ 0.0209 Seconds, Ymax = 48.1 Nm @ 0.0341 Seconds





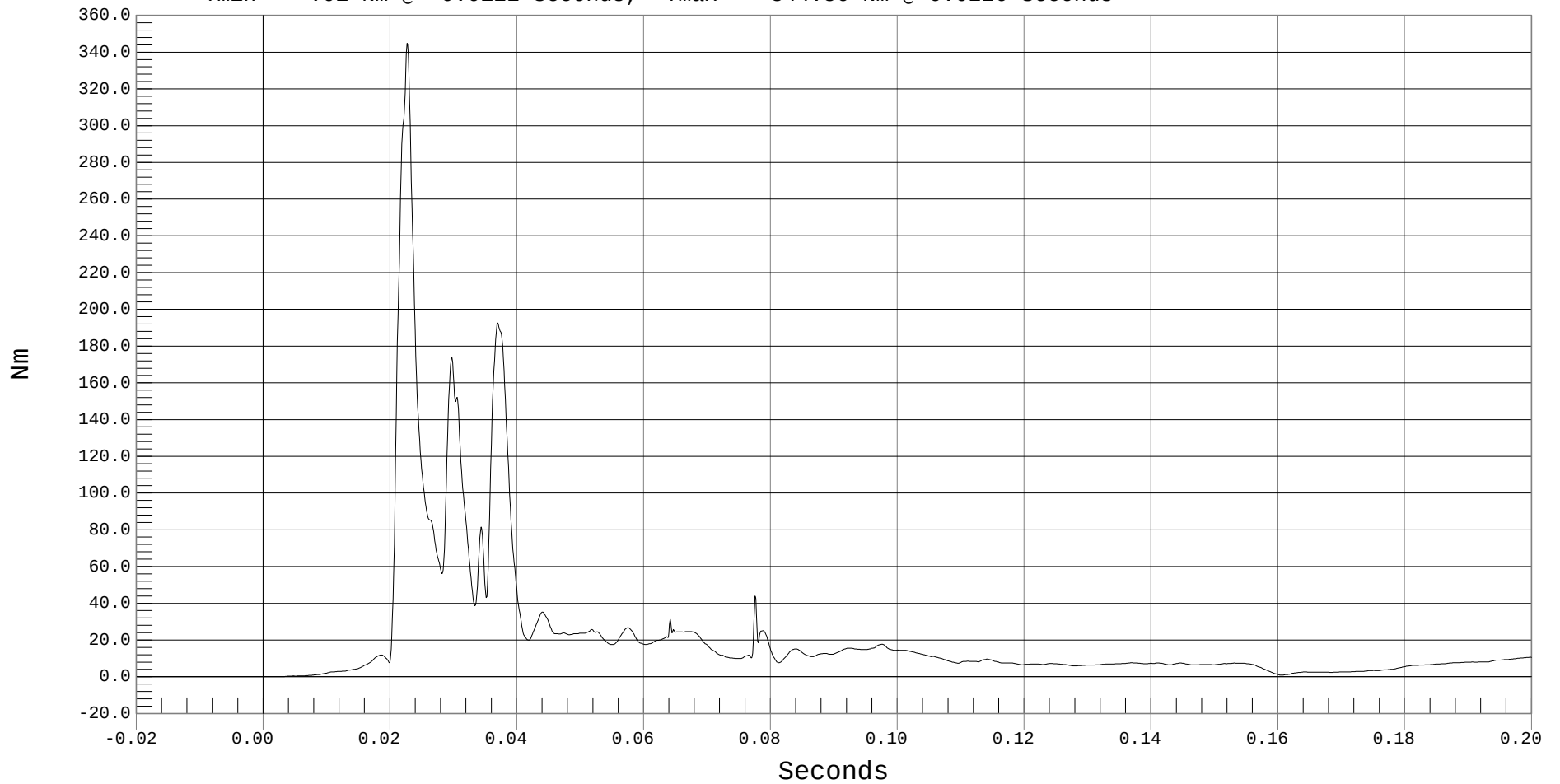
PASSENGER LEFT FEMUR MOMENT RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 PASSENGER LEFT FEMUR MOMENT RESULTANT, B01102FV.F22

Ymin = .01 Nm @ -0.0122 Seconds, Ymax = 344.86 Nm @ 0.0226 Seconds





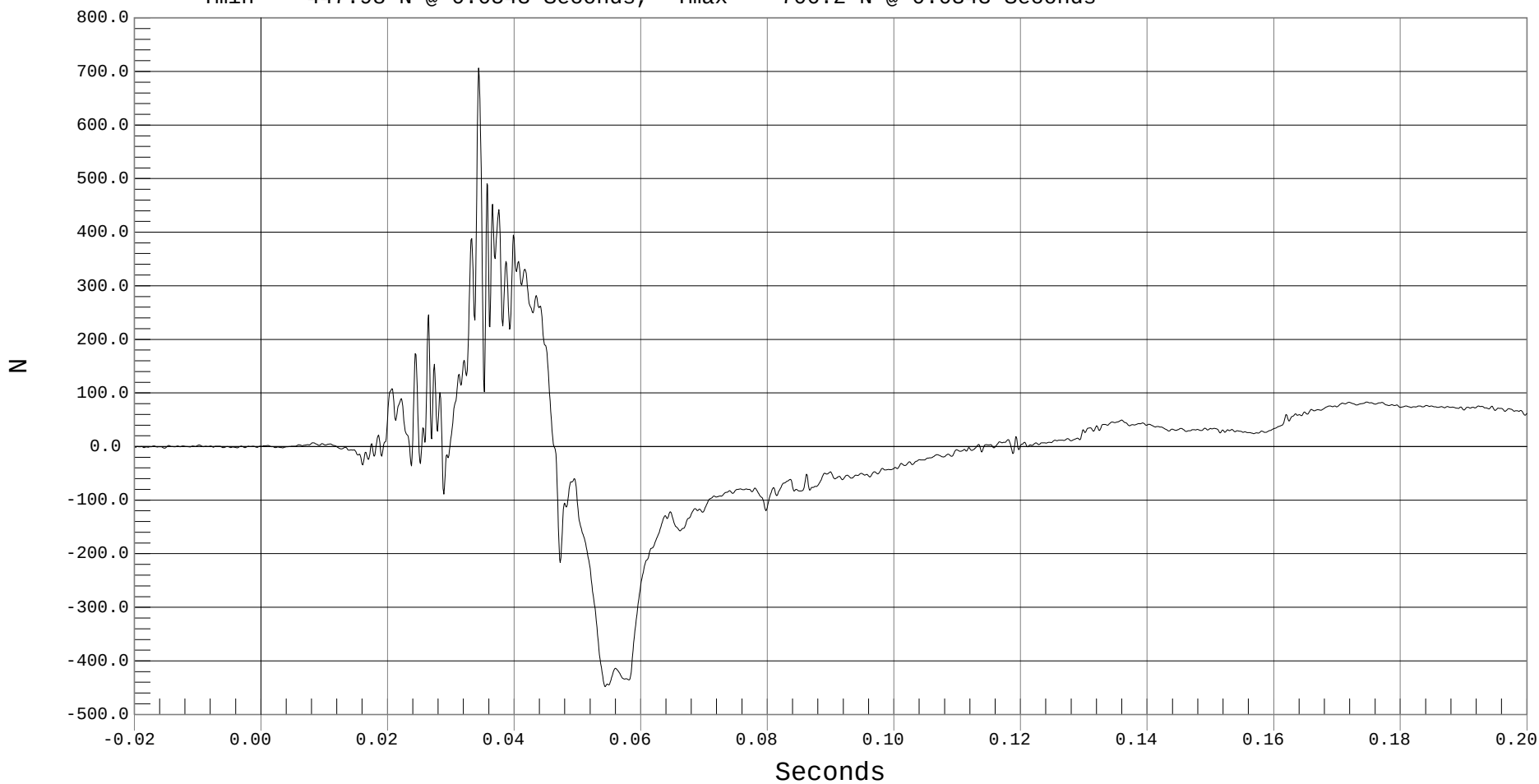
PASSENGER RIGHT FEMUR FORCE X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER RIGHT FEMUR FORCE X, B01102FF.F32

Ymin = -447.98 N @ 0.0543 Seconds, Ymax = 706.2 N @ 0.0343 Seconds





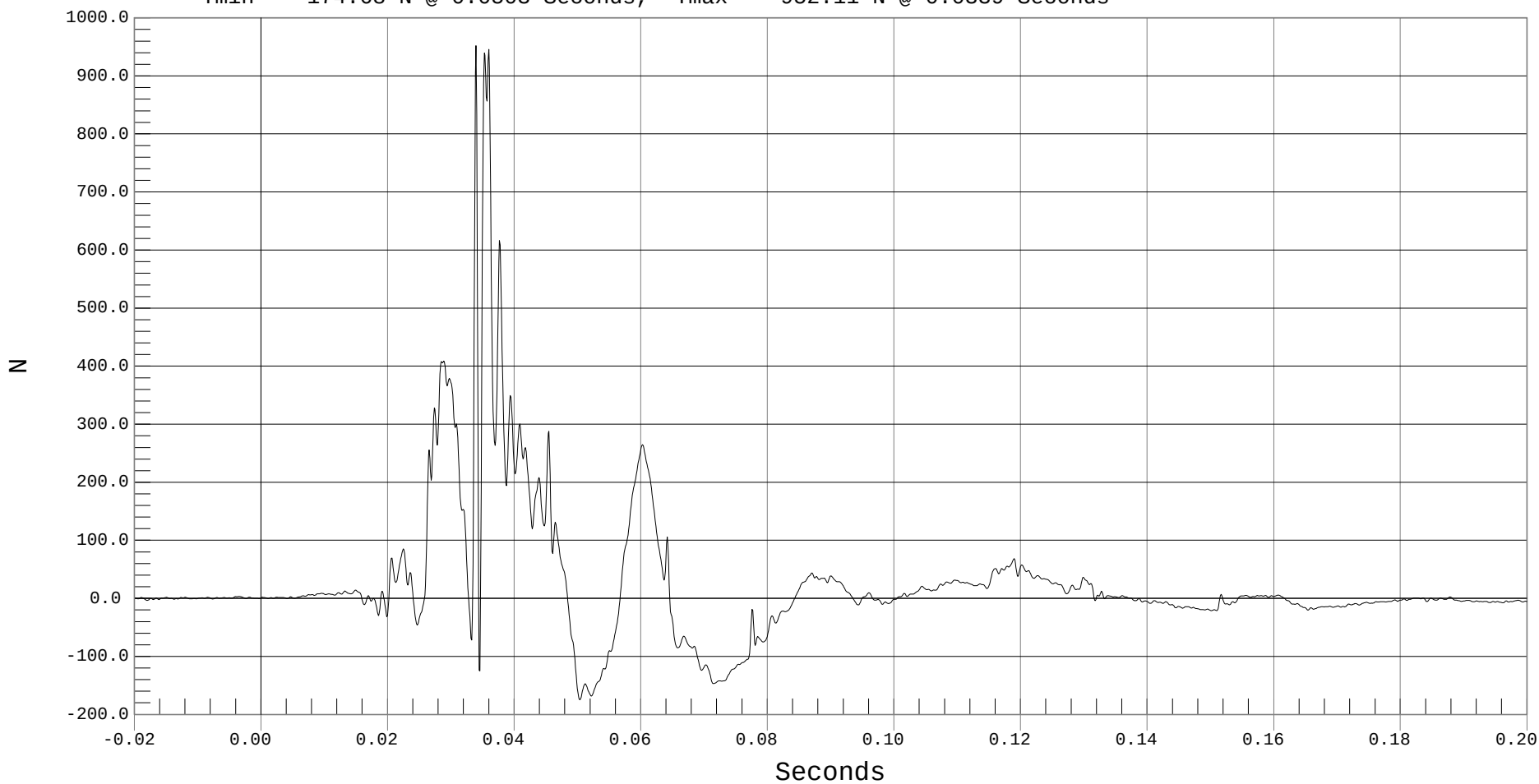
PASSENGER RIGHT FEMUR FORCE Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER RIGHT FEMUR FORCE Y, B01102FF.F14

Ymin = -174.68 N @ 0.0503 Seconds, Ymax = 952.11 N @ 0.0339 Seconds





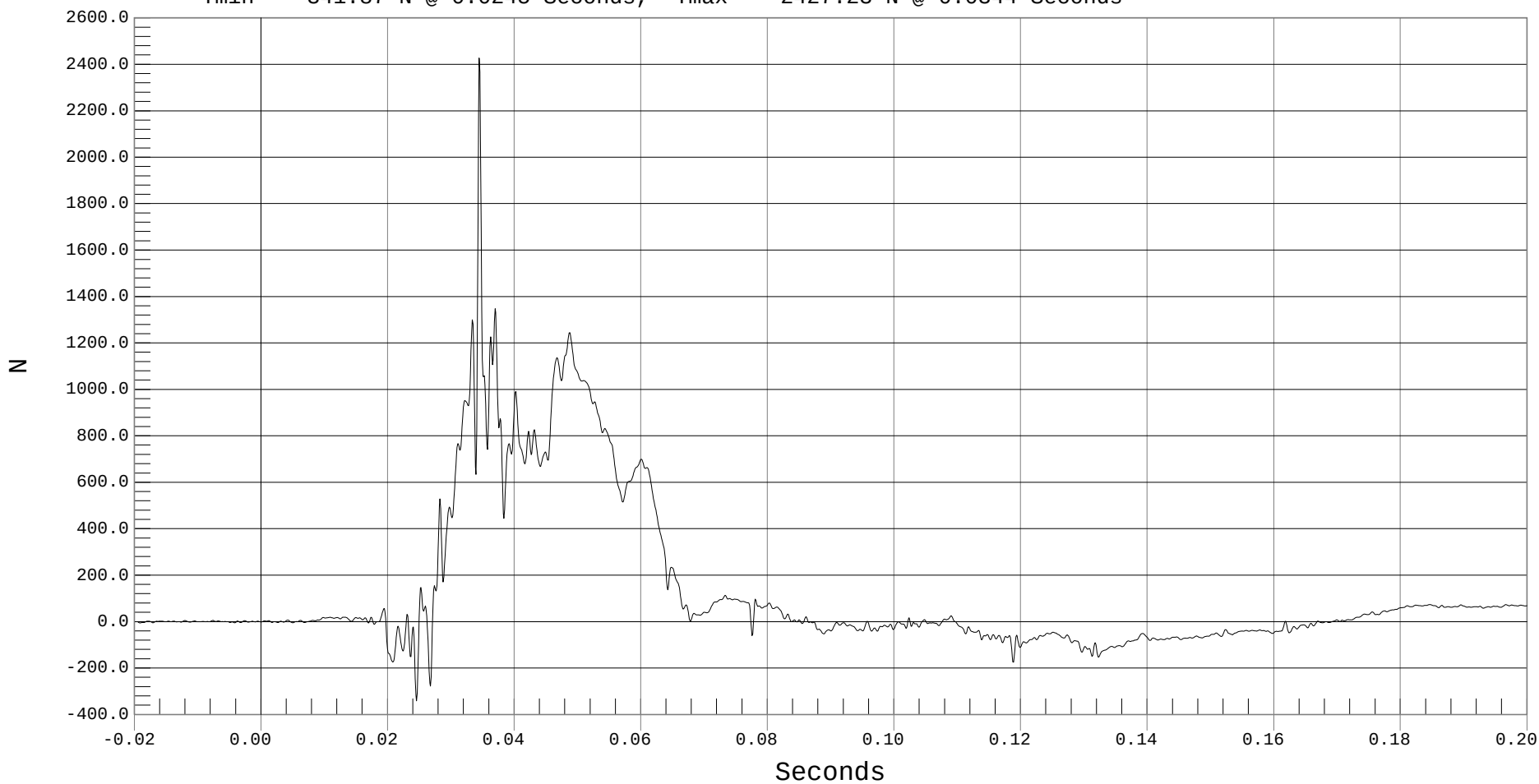
PASSENGER RIGHT FEMUR FORCE Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER RIGHT FEMUR FORCE Z, B01102FF.F15

Ymin = -341.87 N @ 0.0245 Seconds, Ymax = 2427.23 N @ 0.0344 Seconds





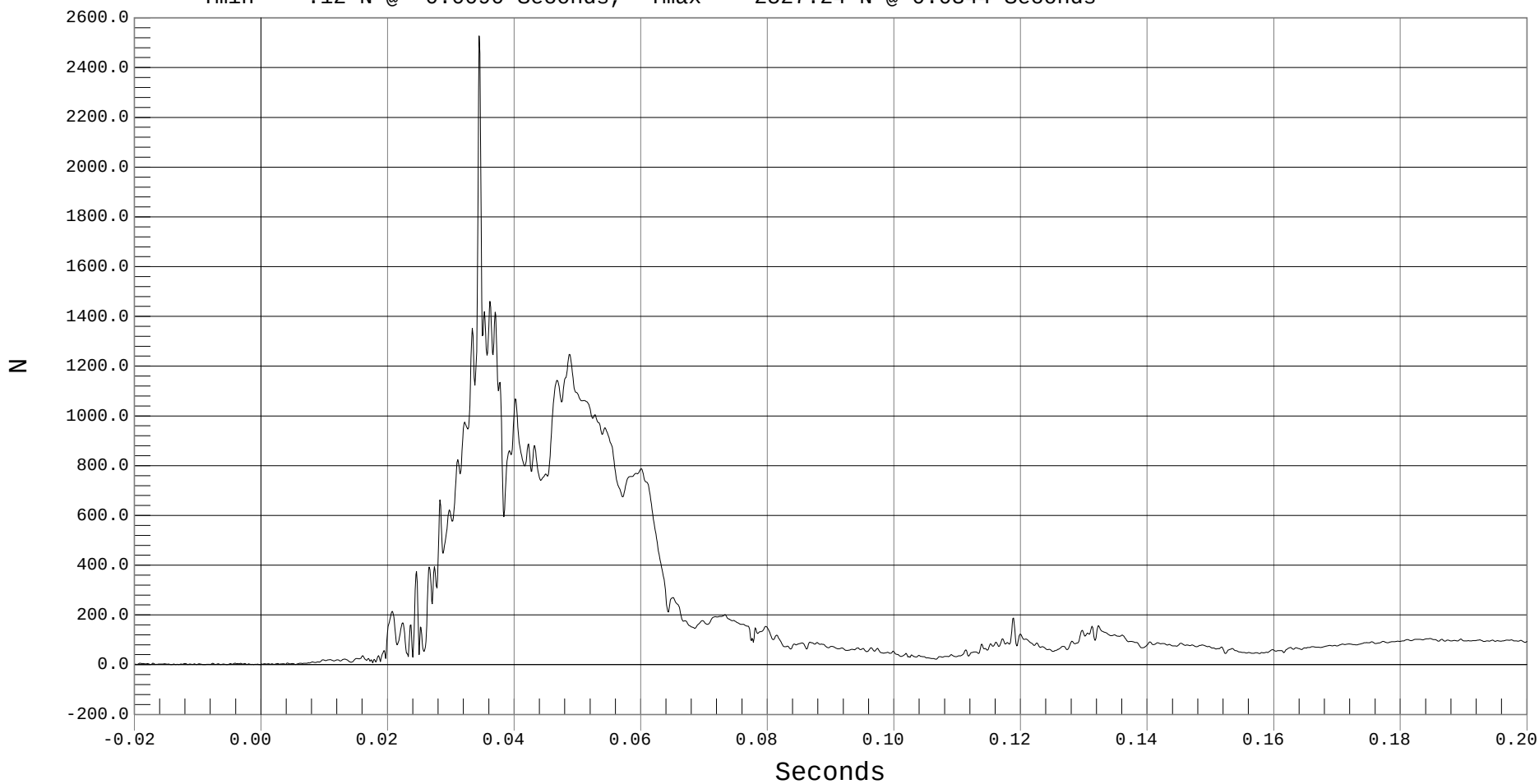
PASSENGER RIGHT FEMUR FORCE RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 PASSENGER RIGHT FEMUR FORCE RESULTANT, B01102FV.F14

Ymin = .12 N @ -0.0090 Seconds, Ymax = 2527.24 N @ 0.0344 Seconds





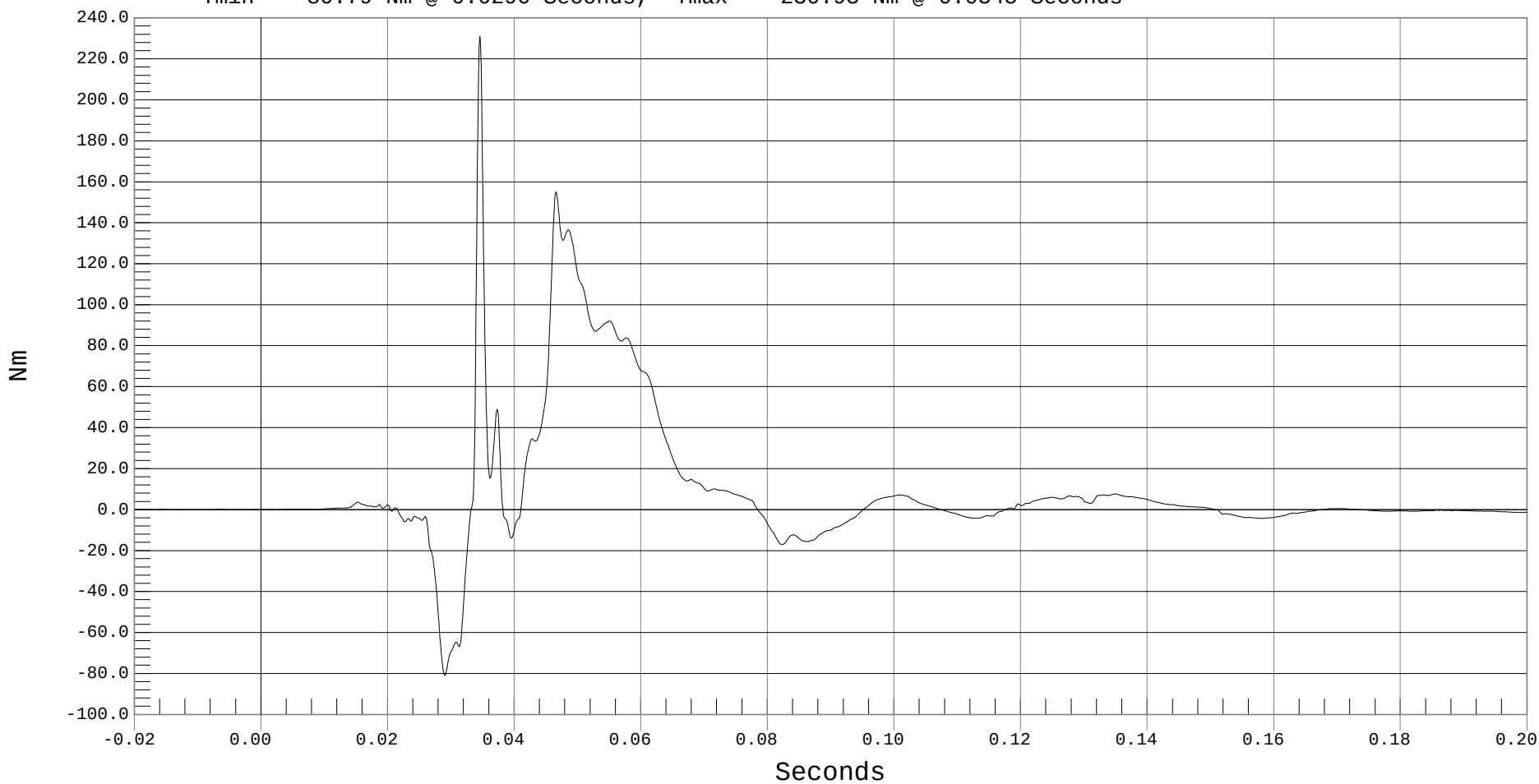
PASSENGER RIGHT FEMUR MOMENT X

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 REAR PASSENGER RIGHT FEMUR MOMENT X, B01102FF.F16

Ymin = -80.79 Nm @ 0.0290 Seconds, Ymax = 230.93 Nm @ 0.0345 Seconds





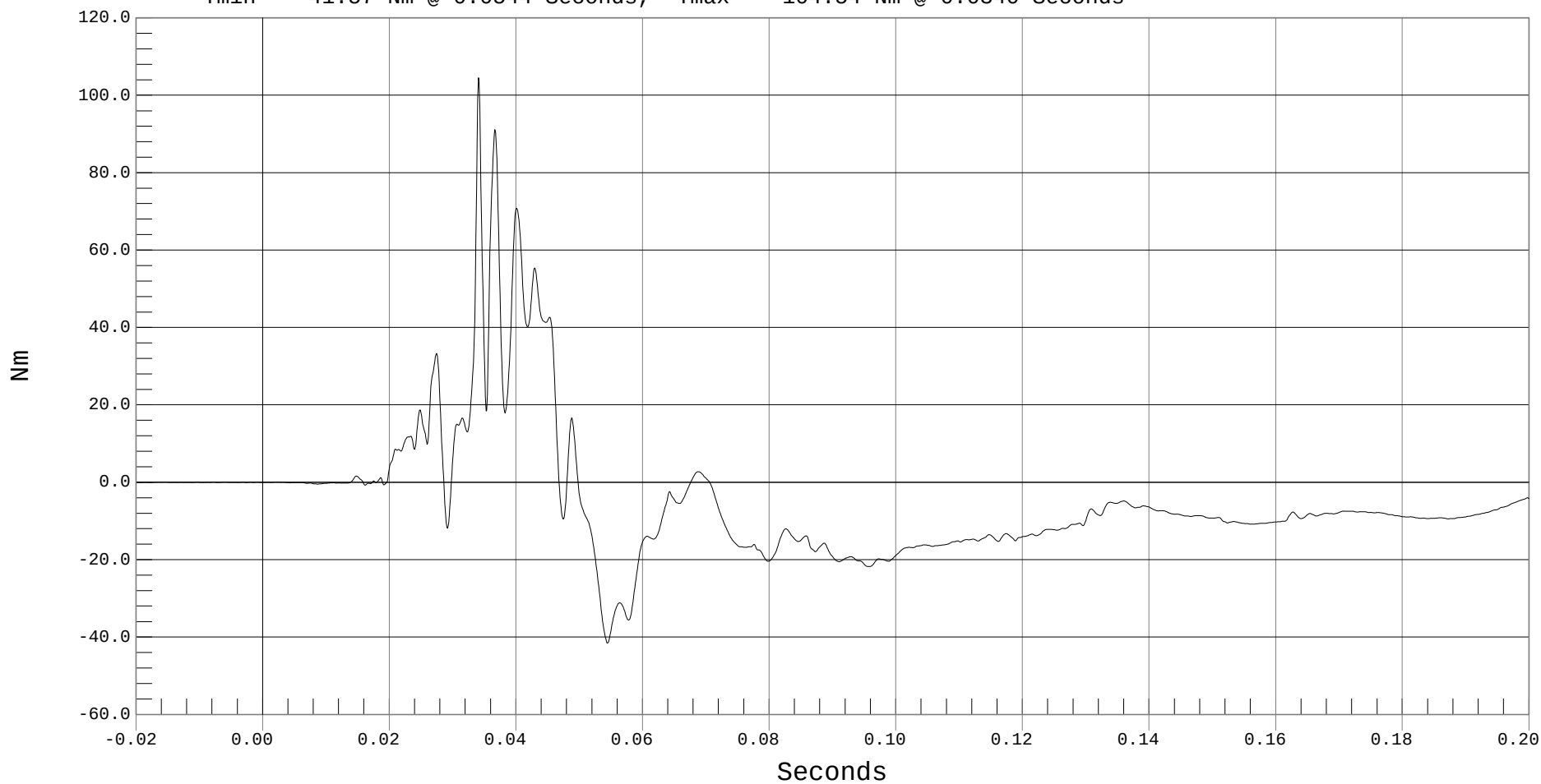
PASSENGER RIGHT FEMUR MOMENT Y

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 REAR PASSENGER RIGHT FEMUR MOMENT Y, B01102FF.F17

Ymin = -41.57 Nm @ 0.0544 Seconds, Ymax = 104.54 Nm @ 0.0340 Seconds





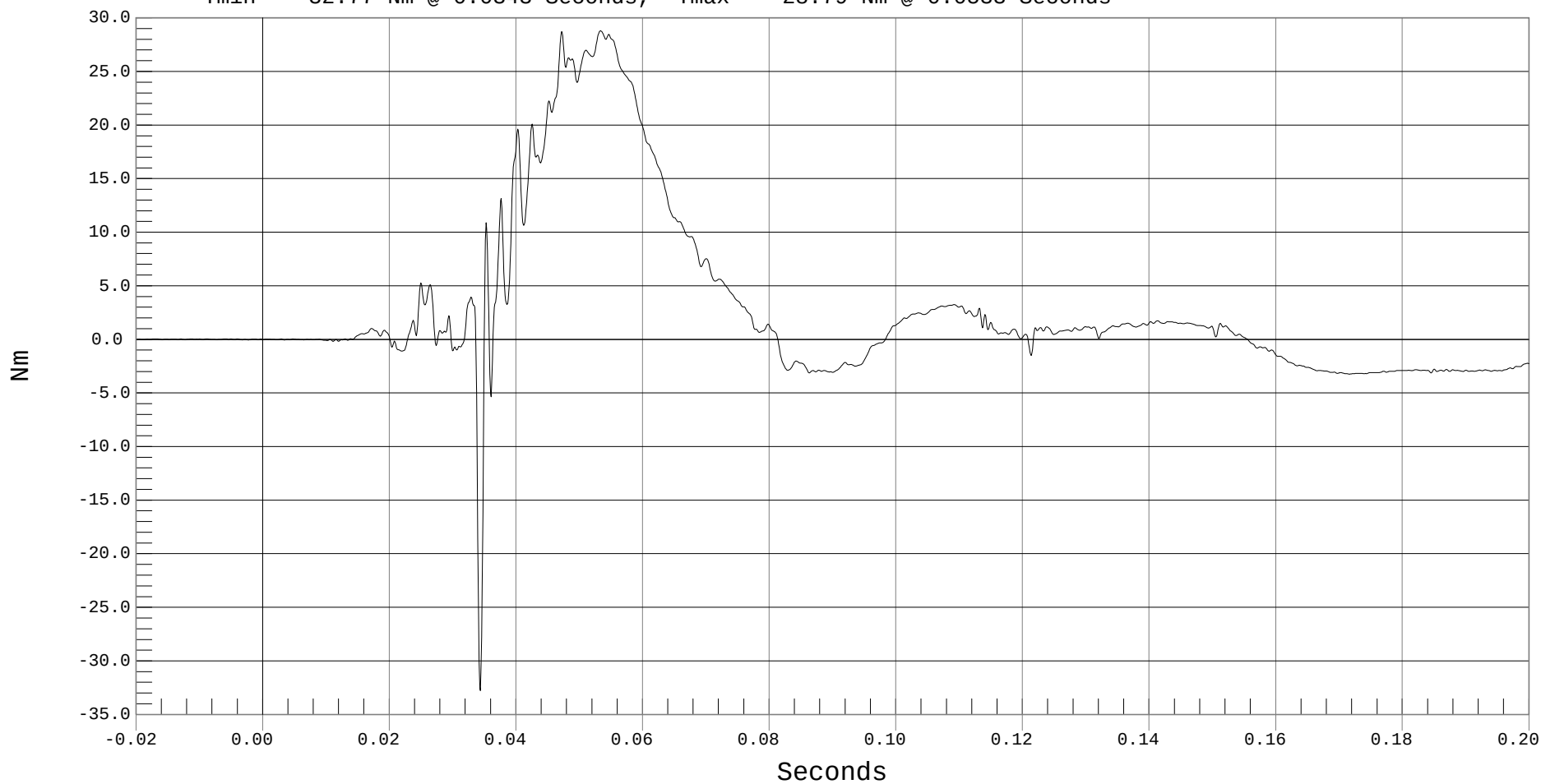
PASSENGER RIGHT FEMUR MOMENT Z

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

1 REAR PASSENGER RIGHT FEMUR MOMENT Z, B01102FF.F18

Ymin = -32.77 Nm @ 0.0343 Seconds, Ymax = 28.79 Nm @ 0.0533 Seconds





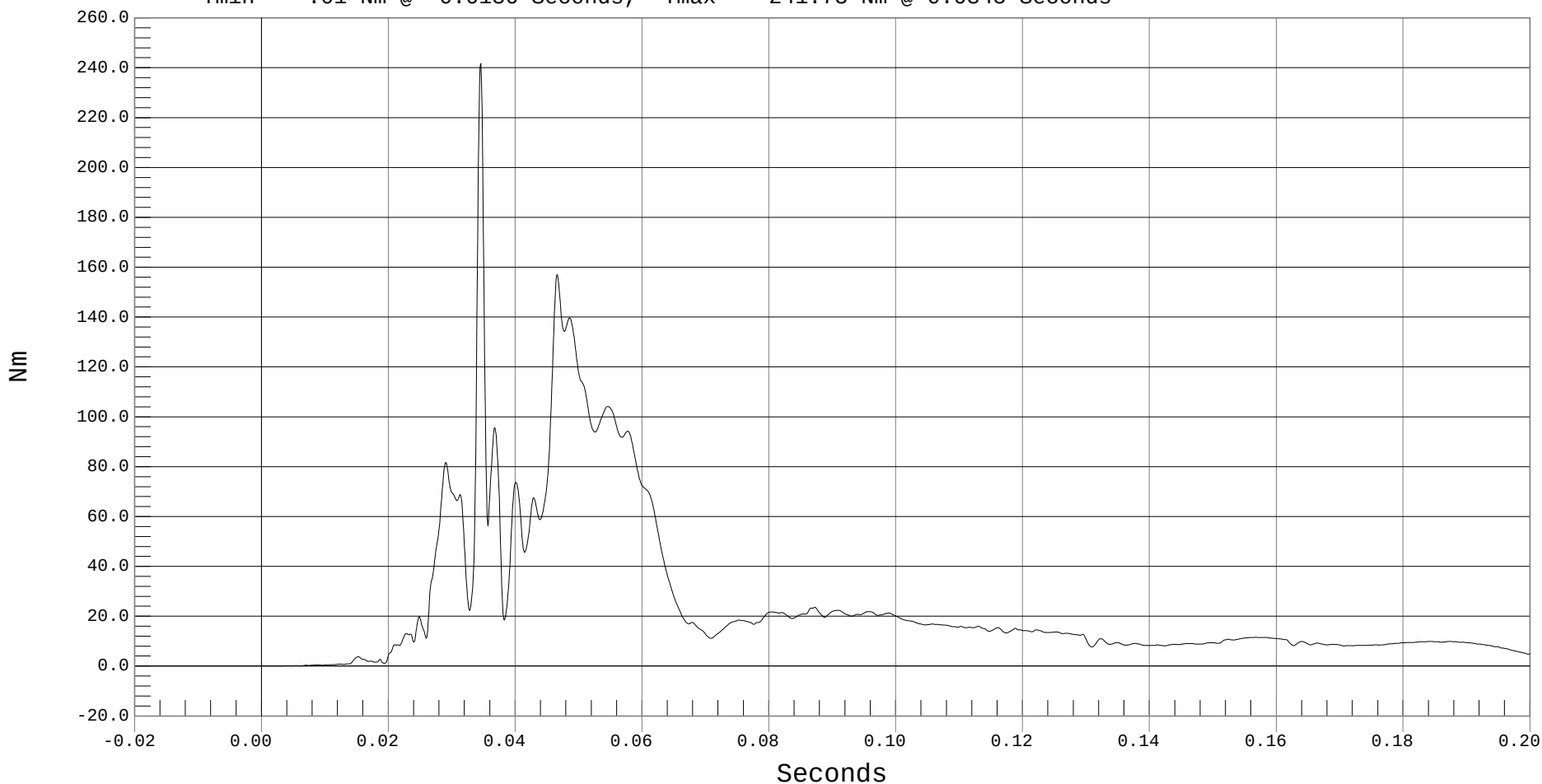
PASSENGER RIGHT FEMUR MOMENT RESULTANT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 600

— 1 PASSENGER RIGHT FEMUR MOMENT RESULTANT, B01102FV.F16

Ymin = .01 Nm @ -0.0136 Seconds, Ymax = 241.73 Nm @ 0.0345 Seconds





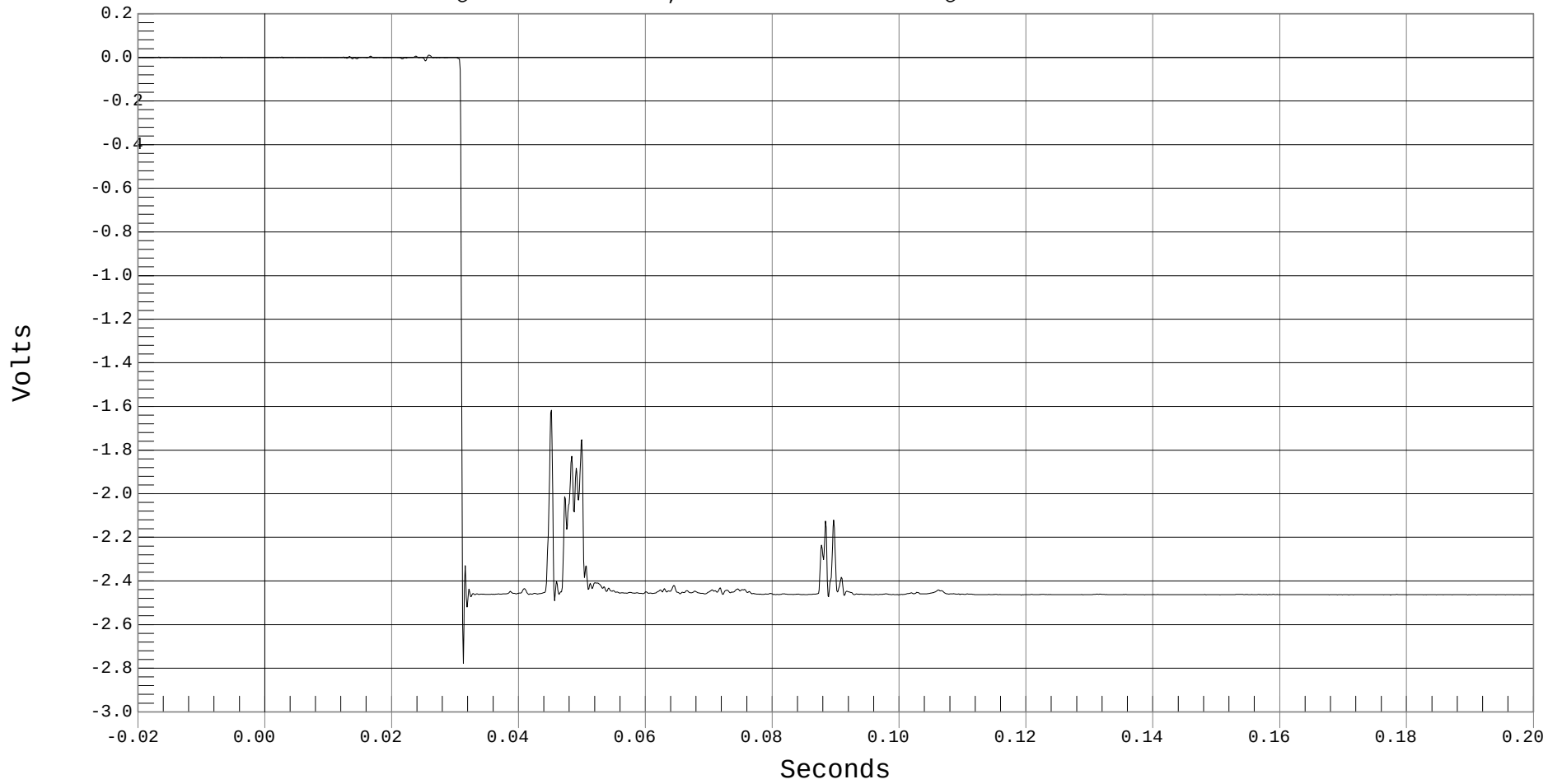
PASSENGER HEAD CONTACT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER HEAD CONTACT, B011020T.075

Ymin = -2.78 Volts @ 0.0312 Seconds, Ymax = .01 Volts @ 0.0258 Seconds





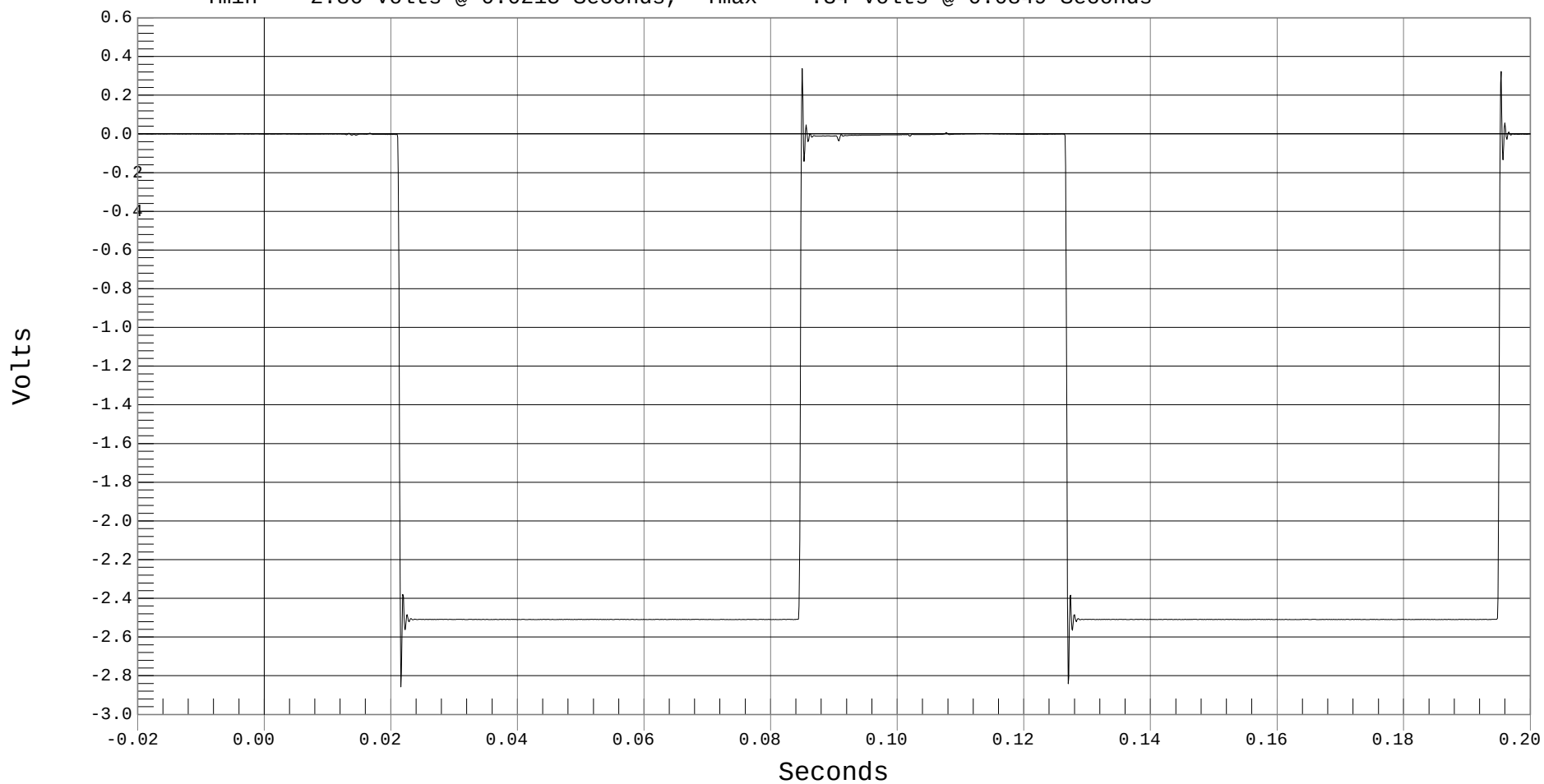
PASSENGER ARM CONTACT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER ARM CONTACT, B011020T.076

Ymin = -2.86 Volts @ 0.0215 Seconds, Ymax = .34 Volts @ 0.0849 Seconds





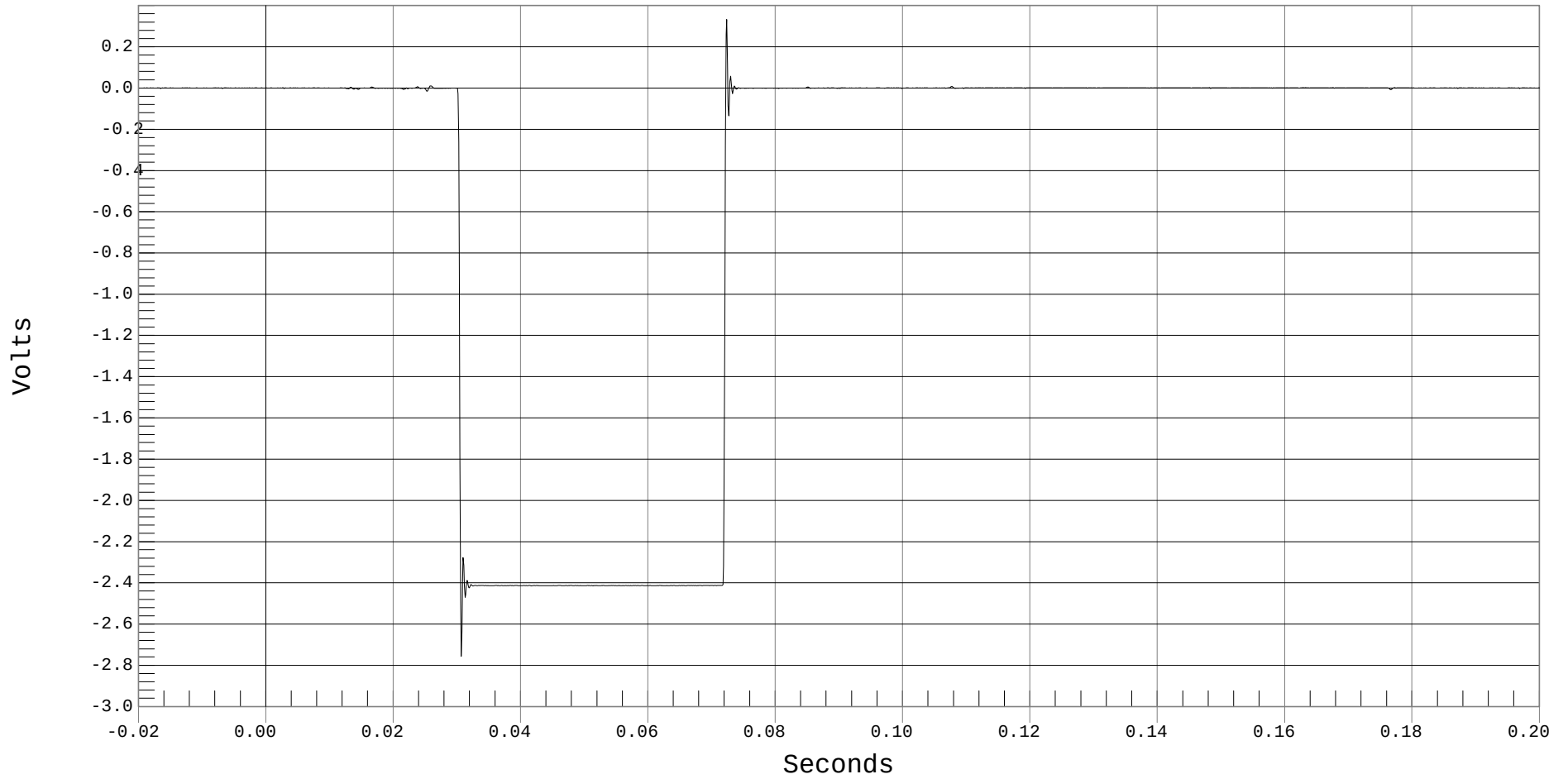
PASSENGER RIB CONTACT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER RIB CONTACT, B011020T.077

Ymin = -2.76 Volts @ 0.0306 Seconds, Ymax = .33 Volts @ 0.0723 Seconds





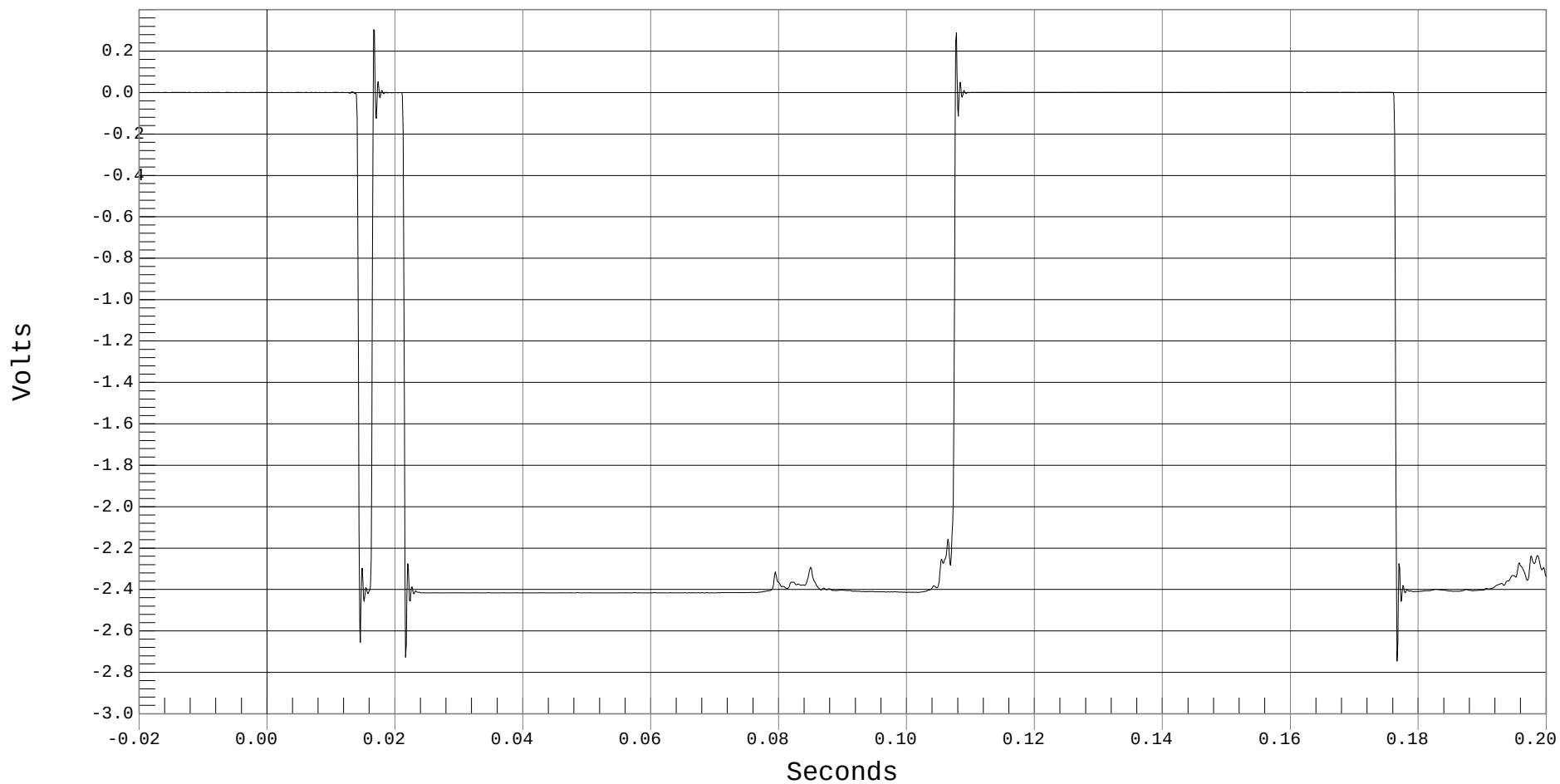
PASSENGER PELVIS CONTACT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 REAR PASSENGER PELVIS, B011020T.078

Ymin = -2.75 Volts @ 0.1766 Seconds, Ymax = .3 Volts @ 0.0166 Seconds





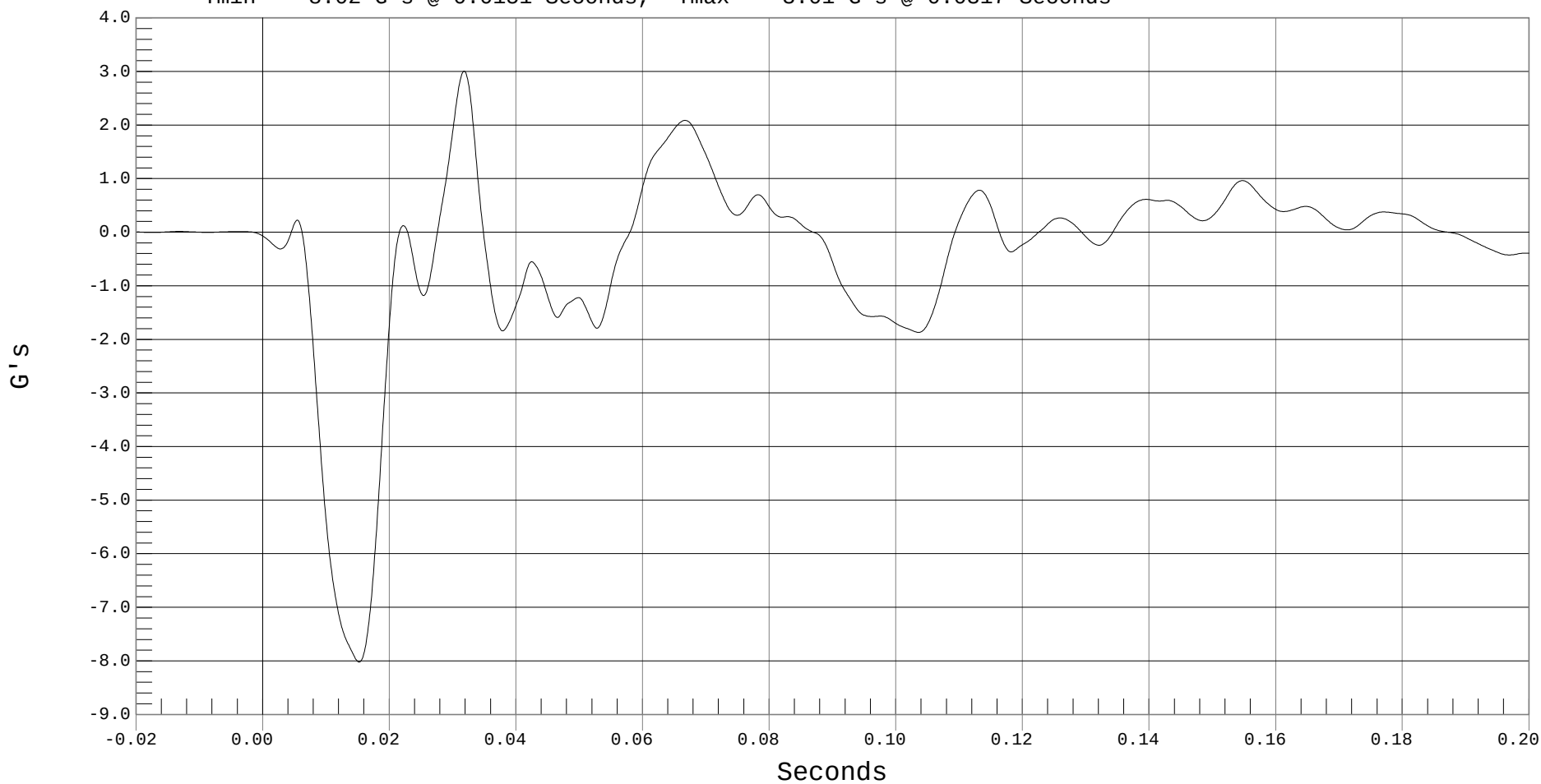
RIGHT SIDE SILL AT FRONT SEAT X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT FRONT SILL X, B01102AF.A25

Ymin = -8.02 G's @ 0.0151 Seconds, Ymax = 3.01 G's @ 0.0317 Seconds





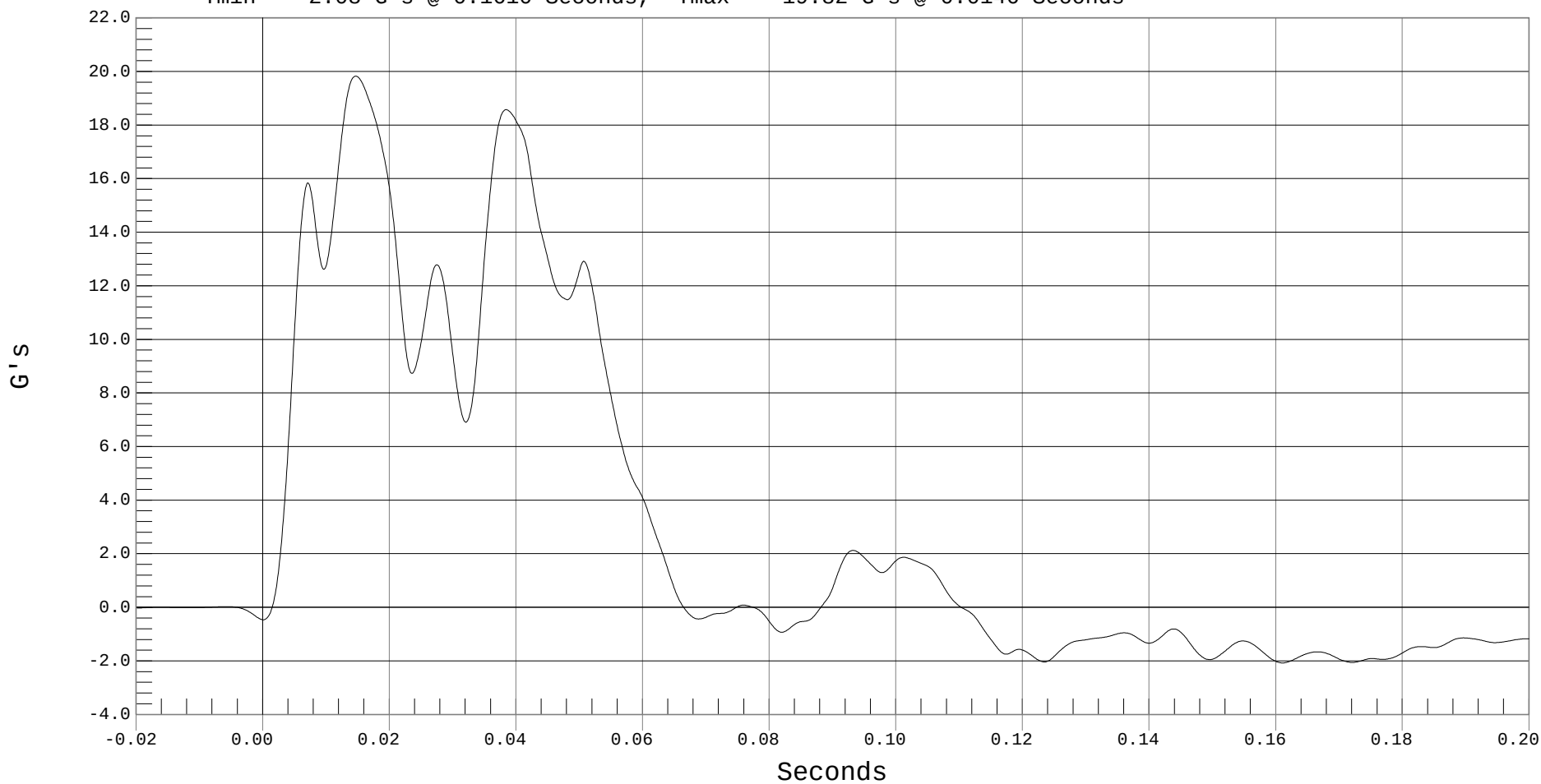
RIGHT SIDE SILL AT FRONT SEAT Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT FRONT SILL Y, B01102AF.A26

Ymin = -2.08 G's @ 0.1610 Seconds, Ymax = 19.82 G's @ 0.0146 Seconds





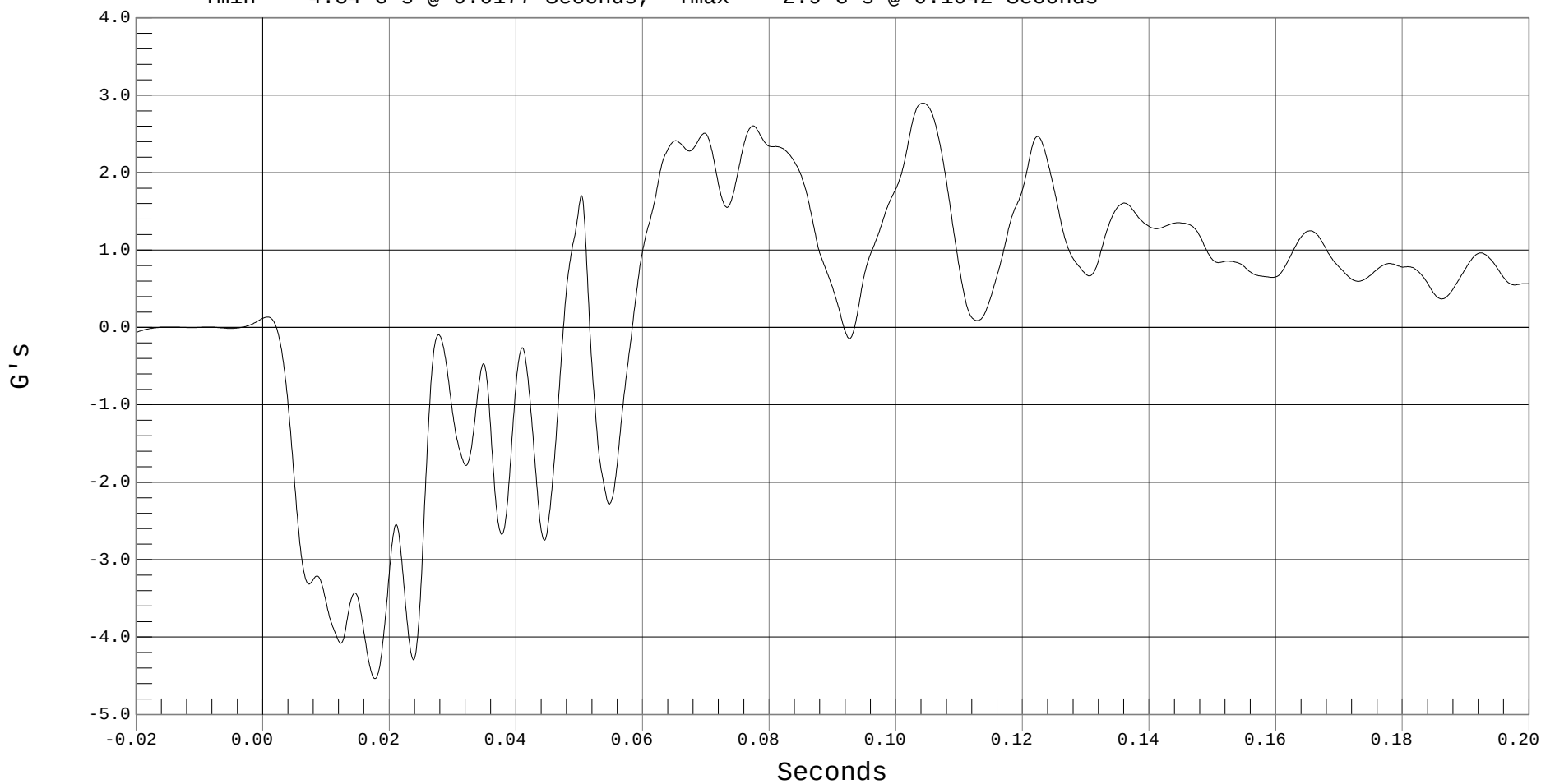
RIGHT SIDE SILL AT FRONT SEAT Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT FRONT SILL Z, B01102AF.A27

Ymin = -4.54 G's @ 0.0177 Seconds, Ymax = 2.9 G's @ 0.1042 Seconds





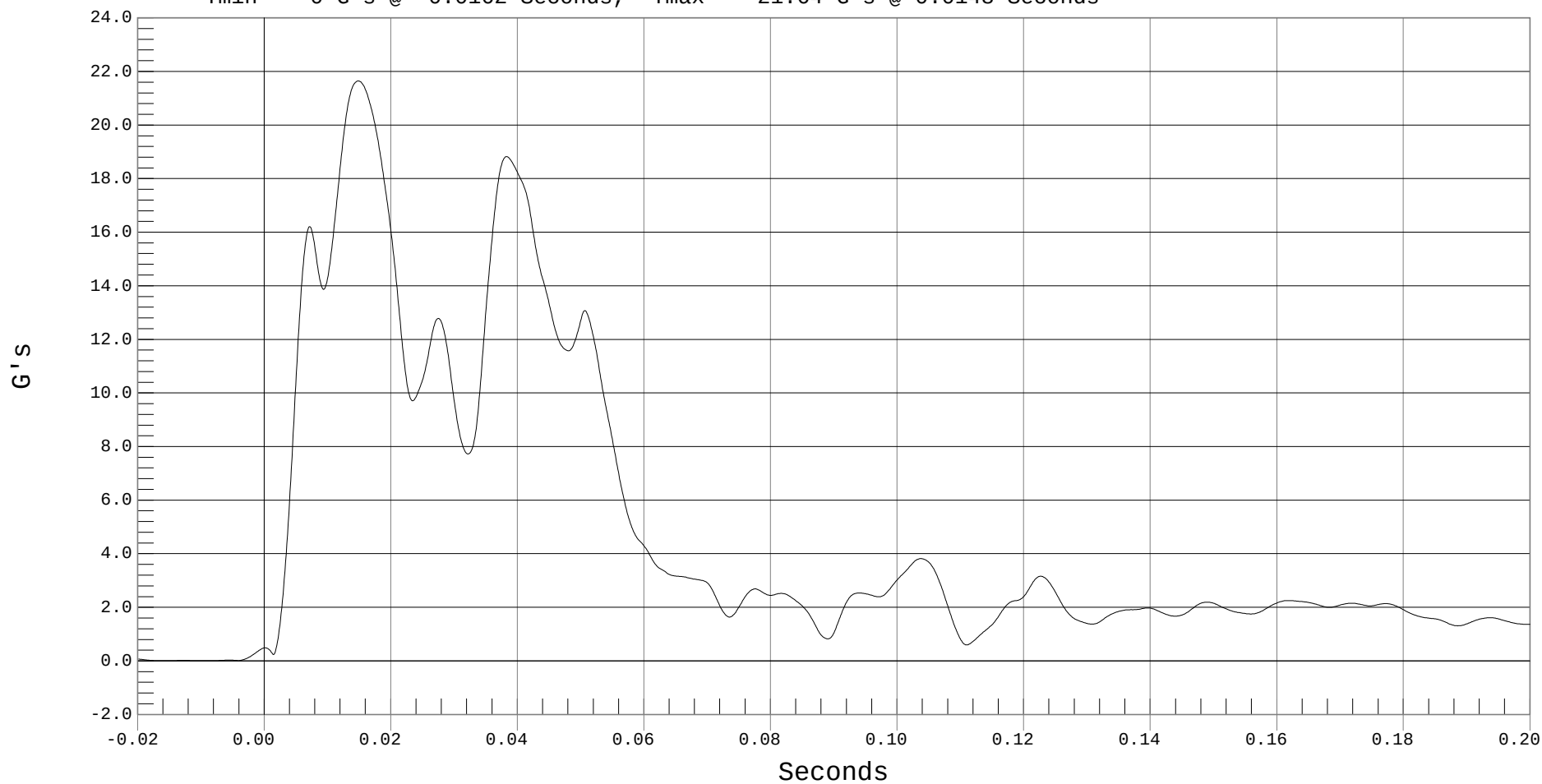
RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT FRONT SILL RESULTANT ACCELERATION, B01102AV.A25

Ymin = 0 G's @ -0.0162 Seconds, Ymax = 21.64 G's @ 0.0148 Seconds





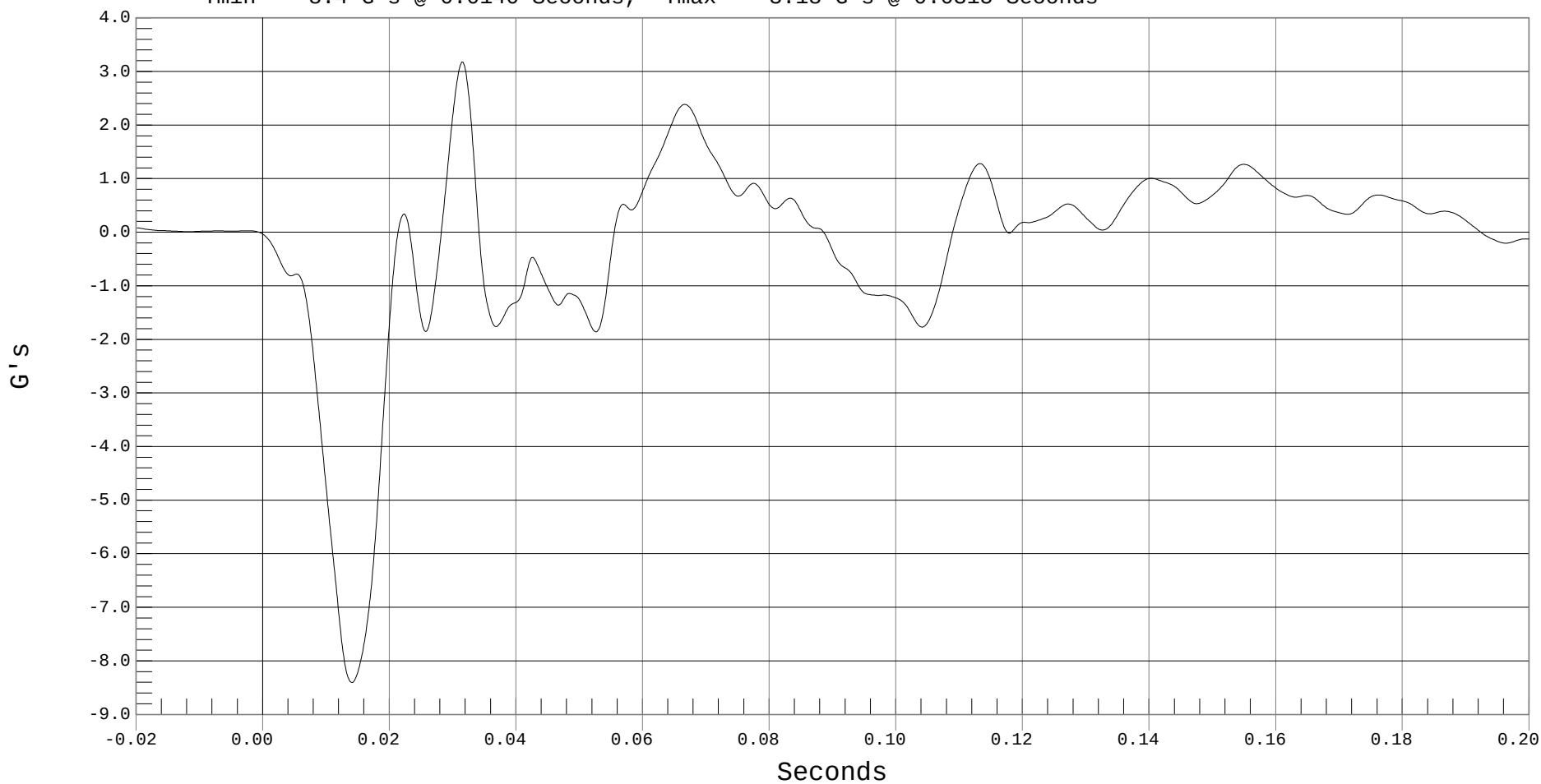
RIGHT SIDE SILL AT REAR SEAT X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT REAR SILL X, B01102AF.A28

Ymin = -8.4 G's @ 0.0140 Seconds, Ymax = 3.18 G's @ 0.0315 Seconds





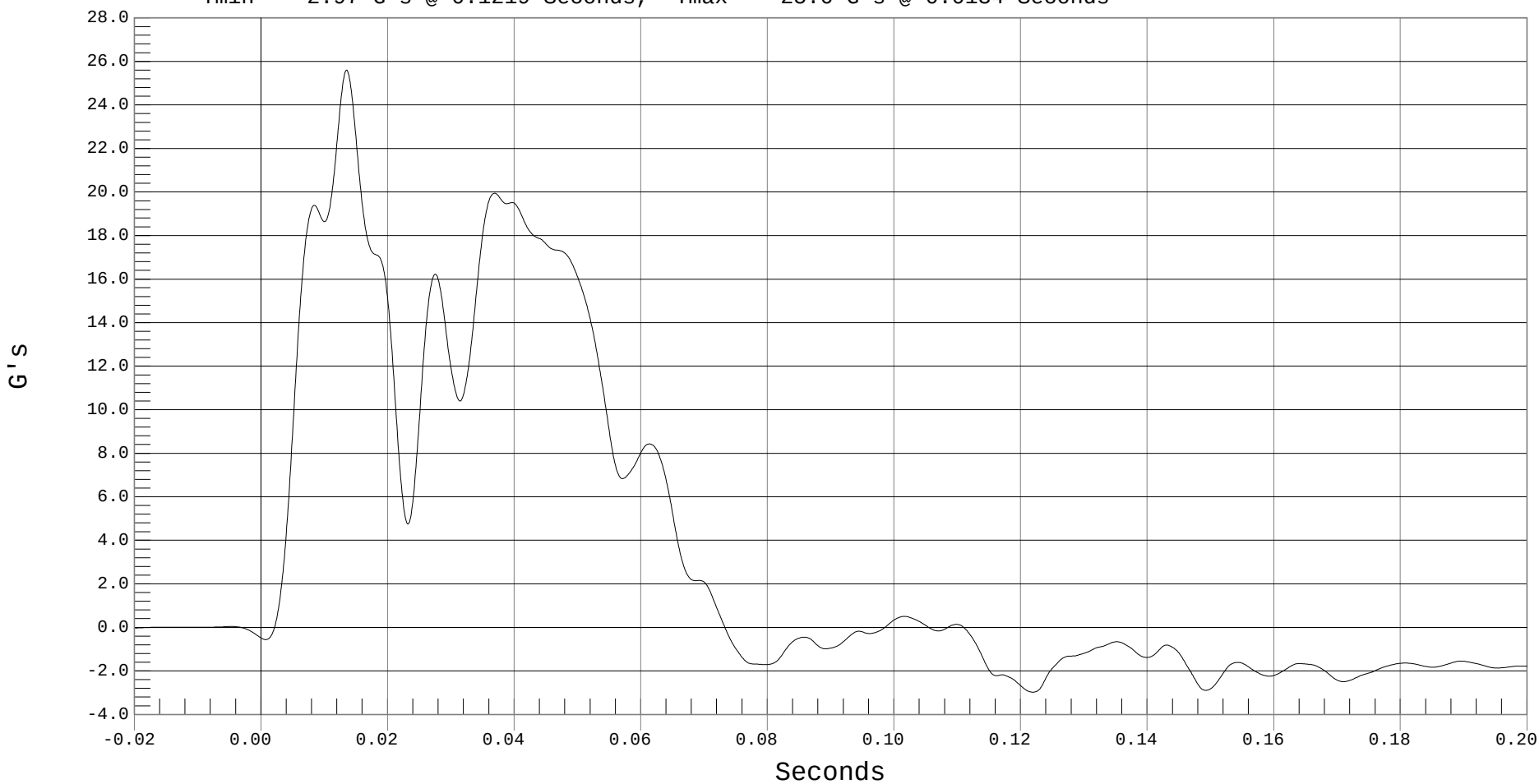
RIGHT SIDE SILL AT REAR SEAT Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT REAR SILL Y, B01102AF.A29

Ymin = -2.97 G's @ 0.1219 Seconds, Ymax = 25.6 G's @ 0.0134 Seconds





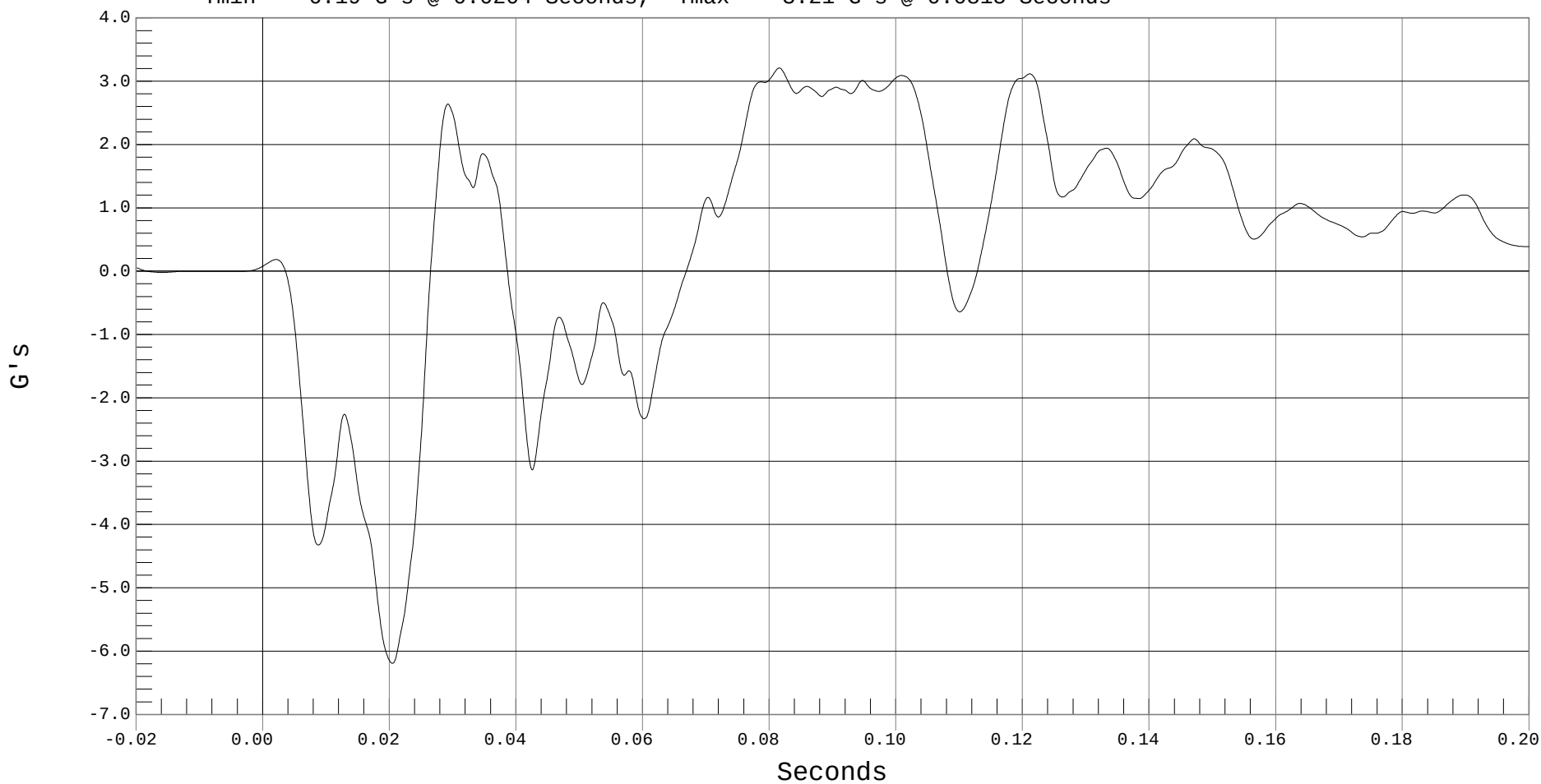
RIGHT SIDE SILL AT REAR SEAT Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT REAR SILL Z, B01102AF.A30

Ymin = -6.19 G's @ 0.0204 Seconds, Ymax = 3.21 G's @ 0.0815 Seconds





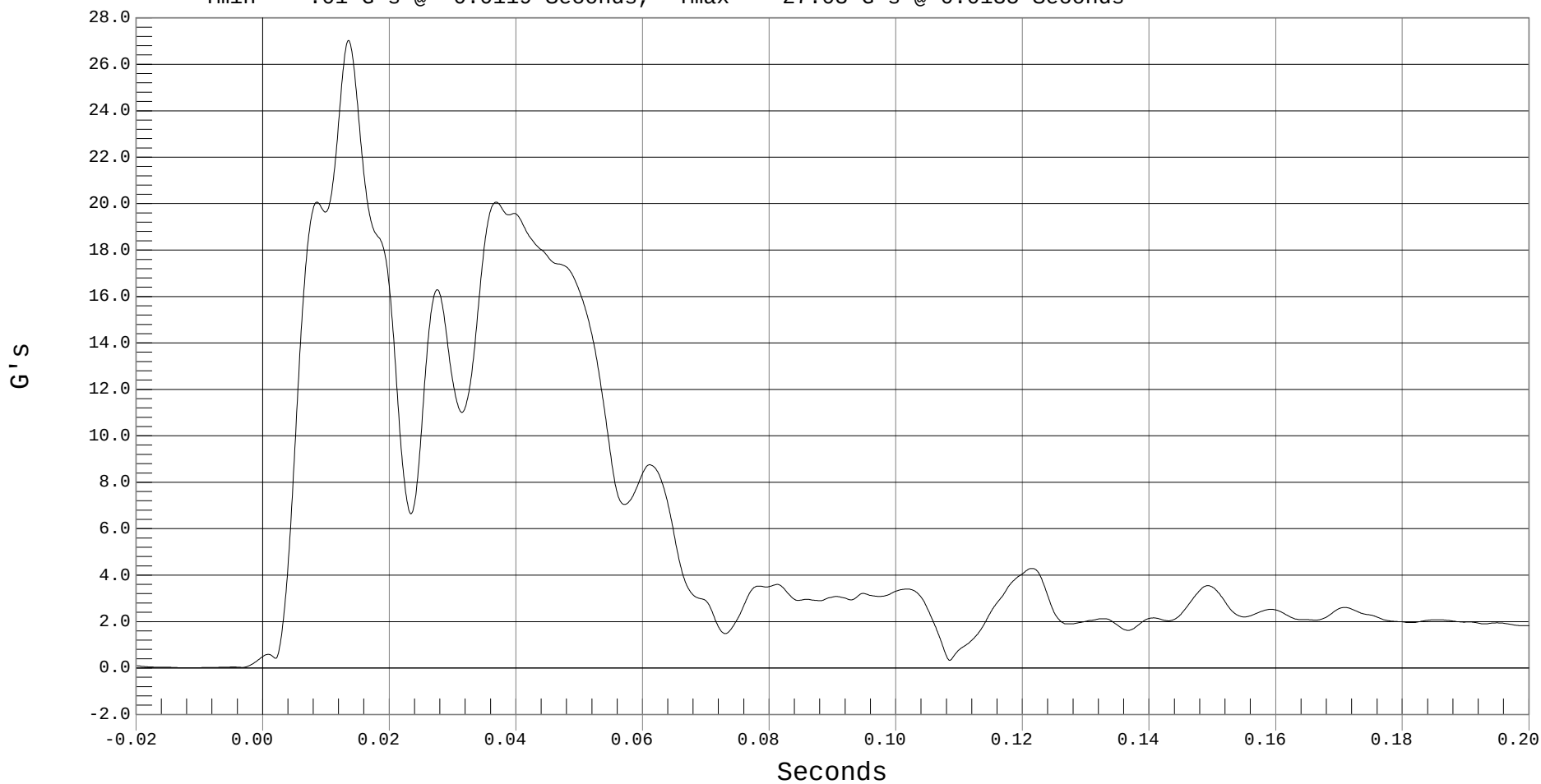
RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT REAR SILL RESULTANT ACCELERATION, B01102AV.A28

Ymin = .01 G's @ -0.0119 Seconds, Ymax = 27.03 G's @ 0.0135 Seconds





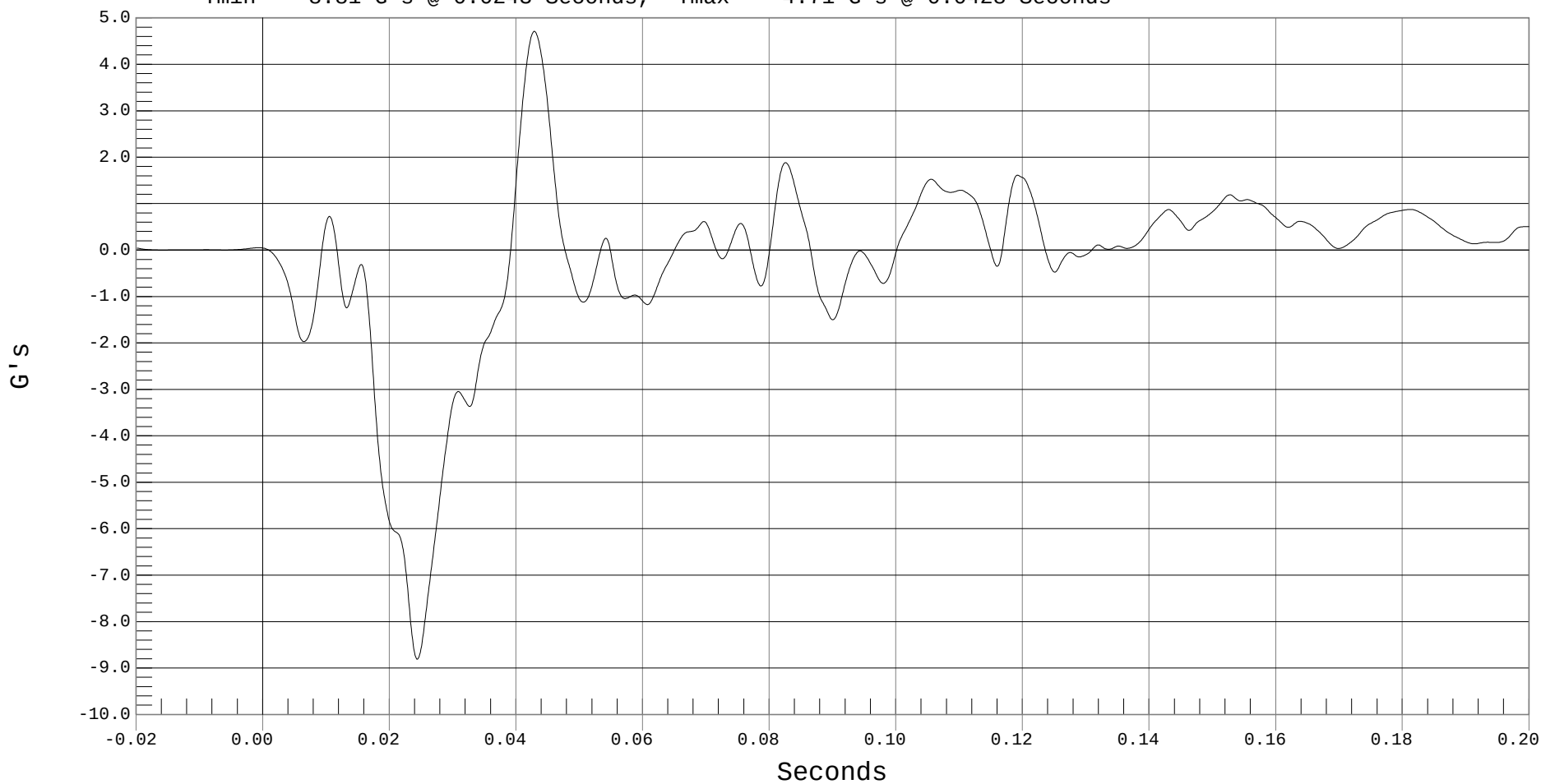
REAR FLOORPAN ABOVE AXLE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 FLOORPAN @ REAR AXLE X, B01102AF.A34

Ymin = -8.81 G's @ 0.0243 Seconds, Ymax = 4.71 G's @ 0.0428 Seconds





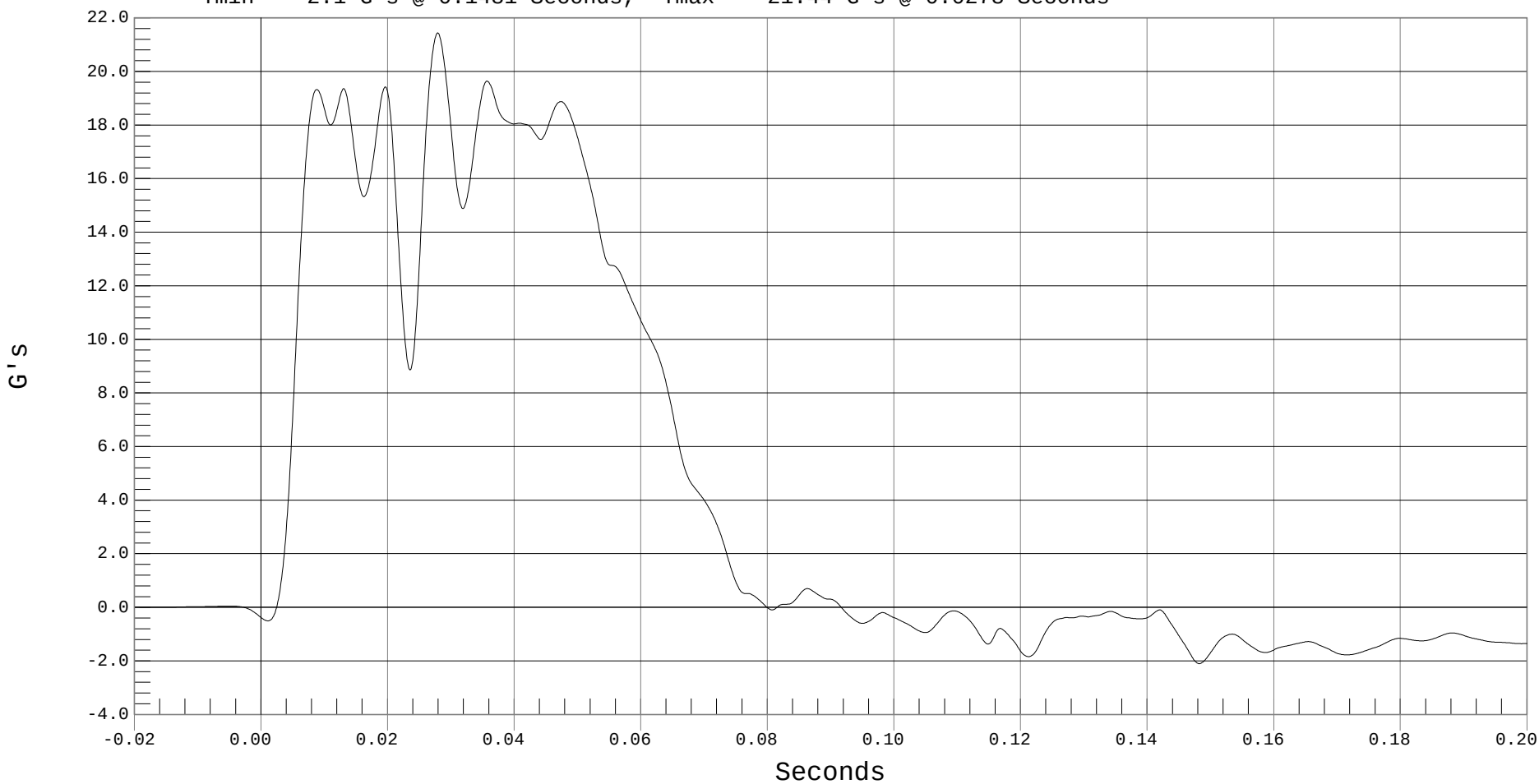
REAR FLOORPAN ABOVE AXLE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 FLOORPAN @ REAR AXLE Y, B01102AF.A35

Ymin = -2.1 G's @ 0.1481 Seconds, Ymax = 21.44 G's @ 0.0278 Seconds





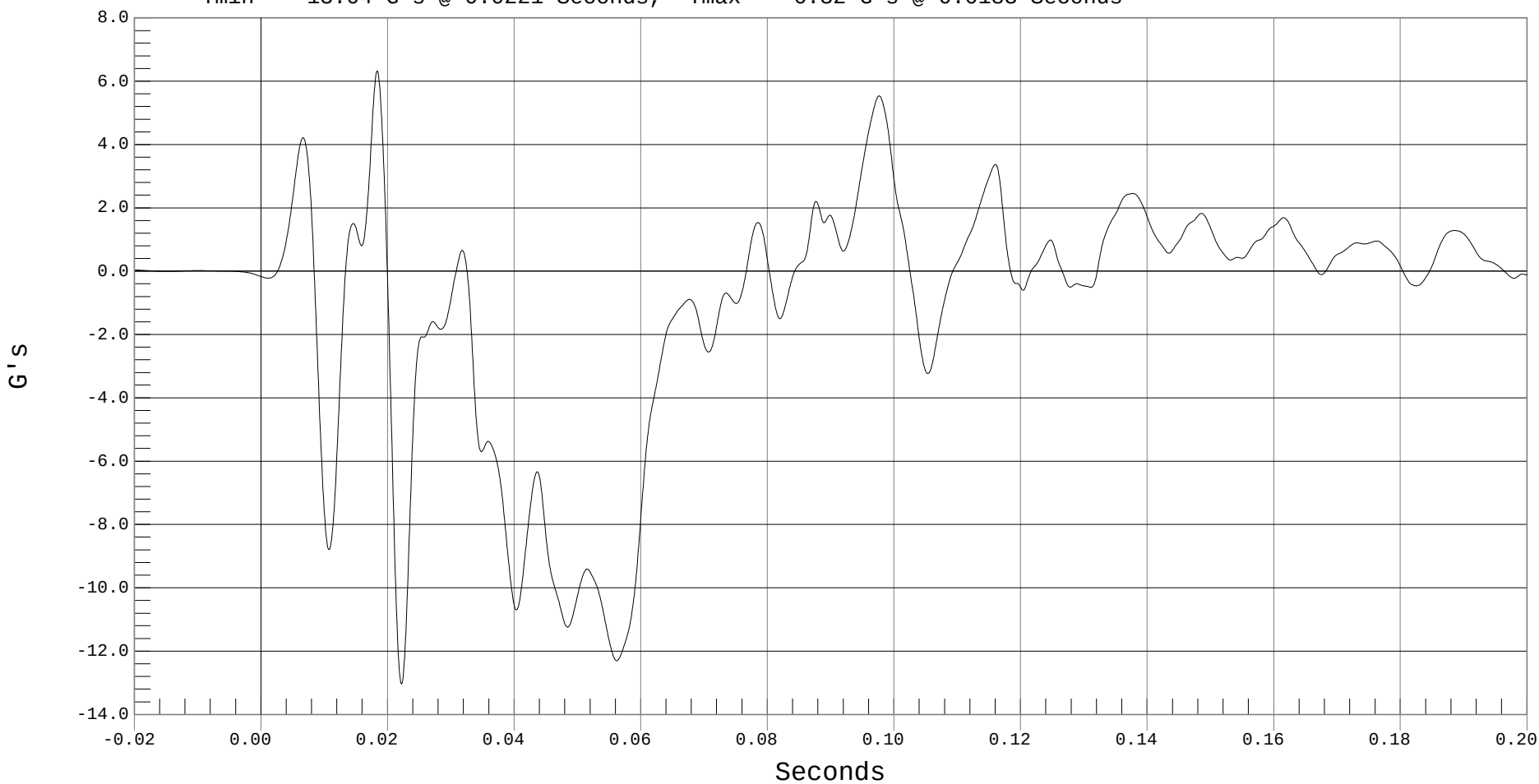
REAR FLOORPAN ABOVE AXLE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 FLOORPAN @ REAR AXLE Z, B01102AF.A36

Ymin = -13.04 G's @ 0.0221 Seconds, Ymax = 6.32 G's @ 0.0183 Seconds





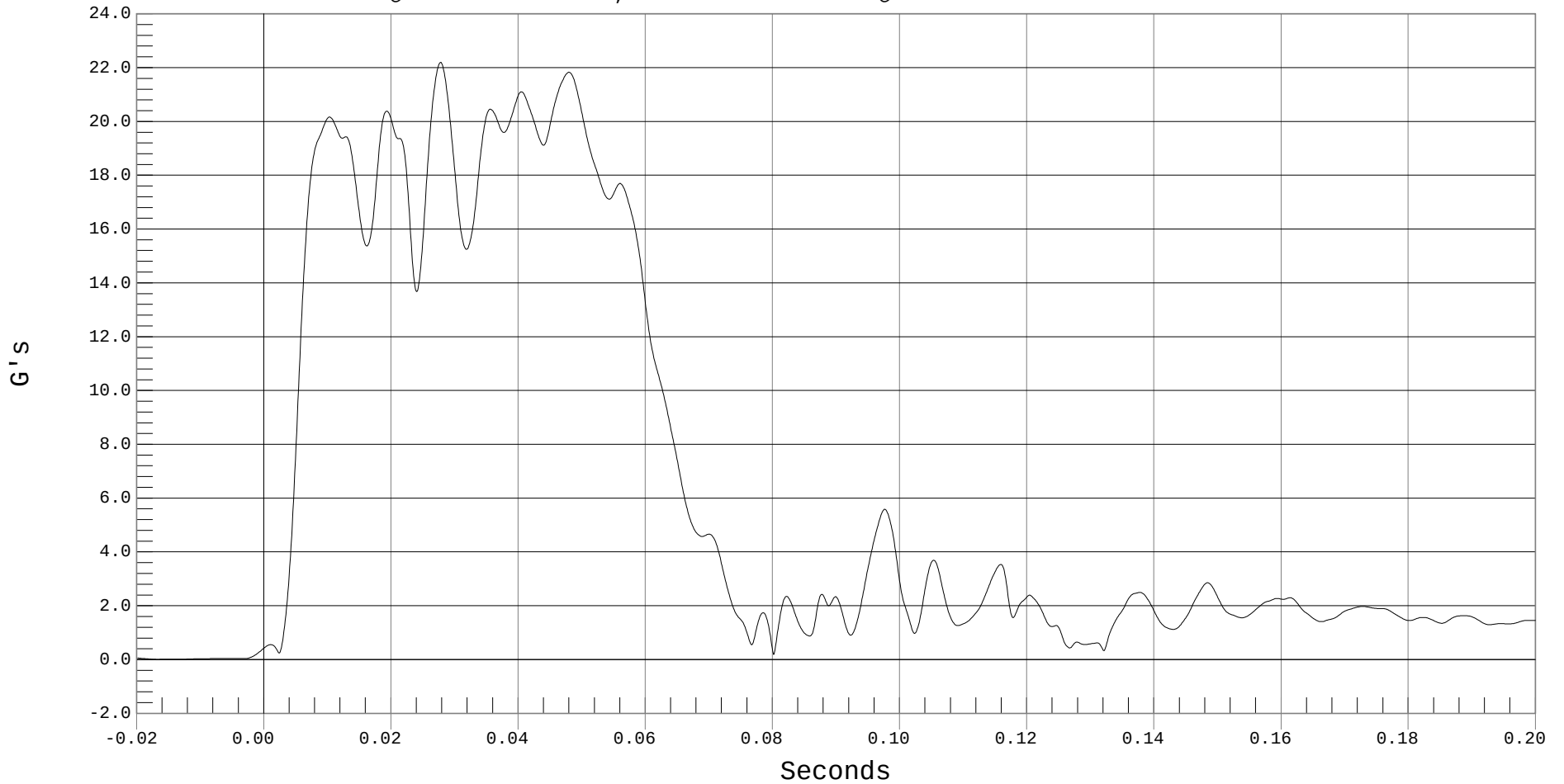
REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 FLOORPAN @ REAR AXLE ACCELERATION, B01102AV.A34

Ymin = 0 G's @ -0.0169 Seconds, Ymax = 22.2 G's @ 0.0277 Seconds





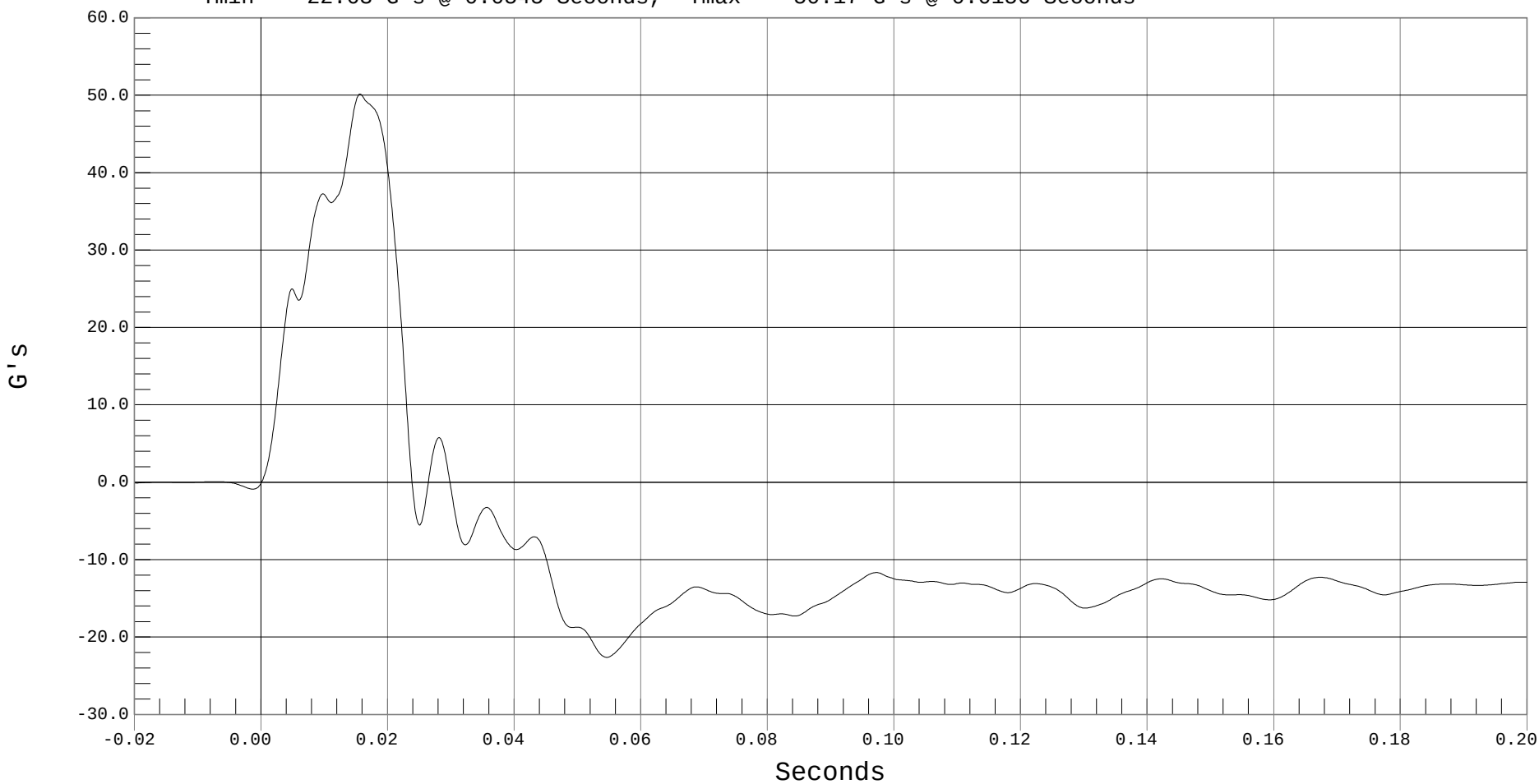
LEFT SIDE SILL AT FRONT SEAT Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT FRONT SILL Y, B01102AF.A31

Ymin = -22.63 G's @ 0.0545 Seconds, Ymax = 50.17 G's @ 0.0156 Seconds





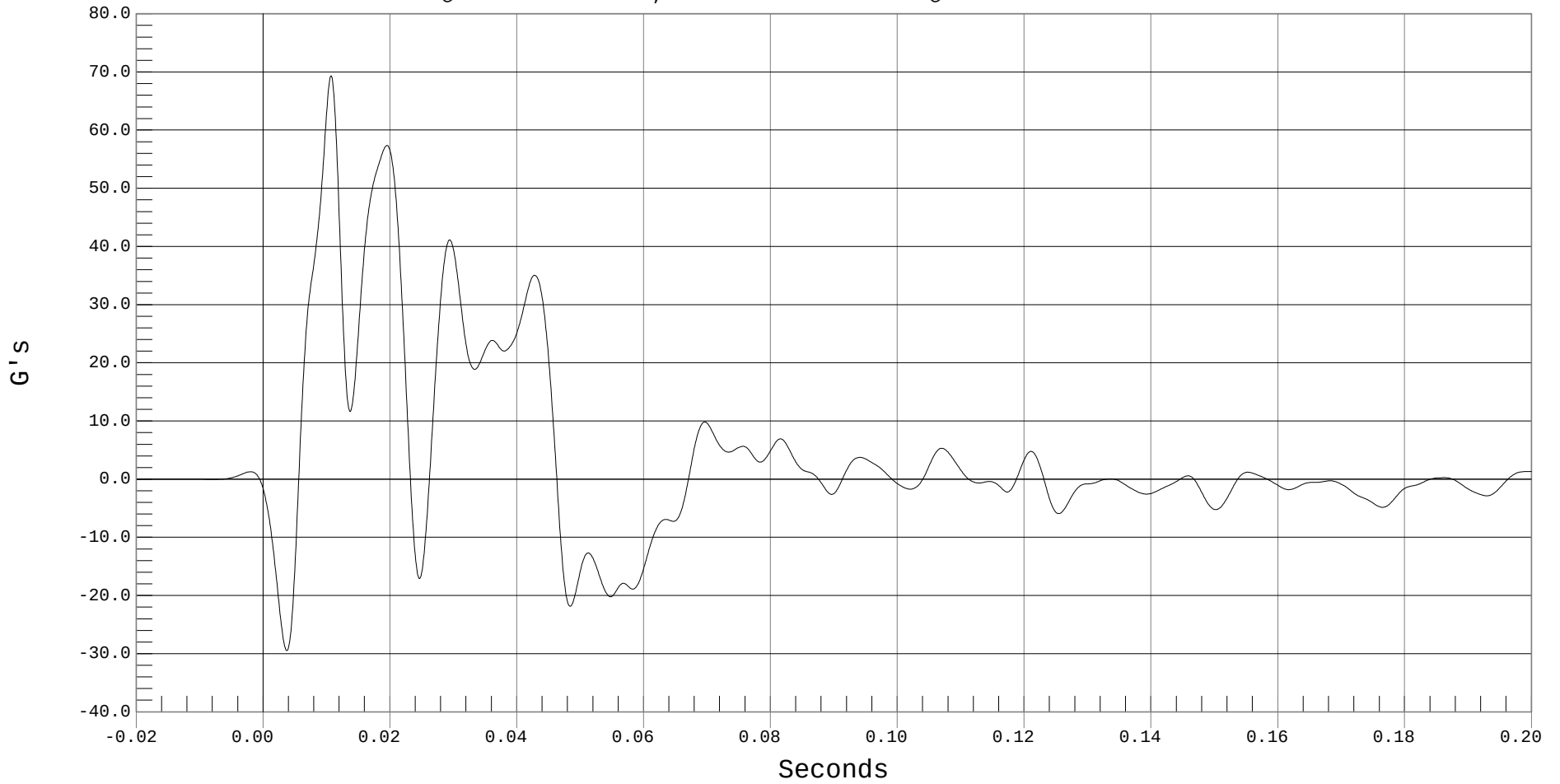
LEFT SIDE SILL AT REAR SEAT Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT REAR SILL Y, B01102AF.A33

Ymin = -29.48 G's @ 0.0037 Seconds, Ymax = 69.31 G's @ 0.0106 Seconds





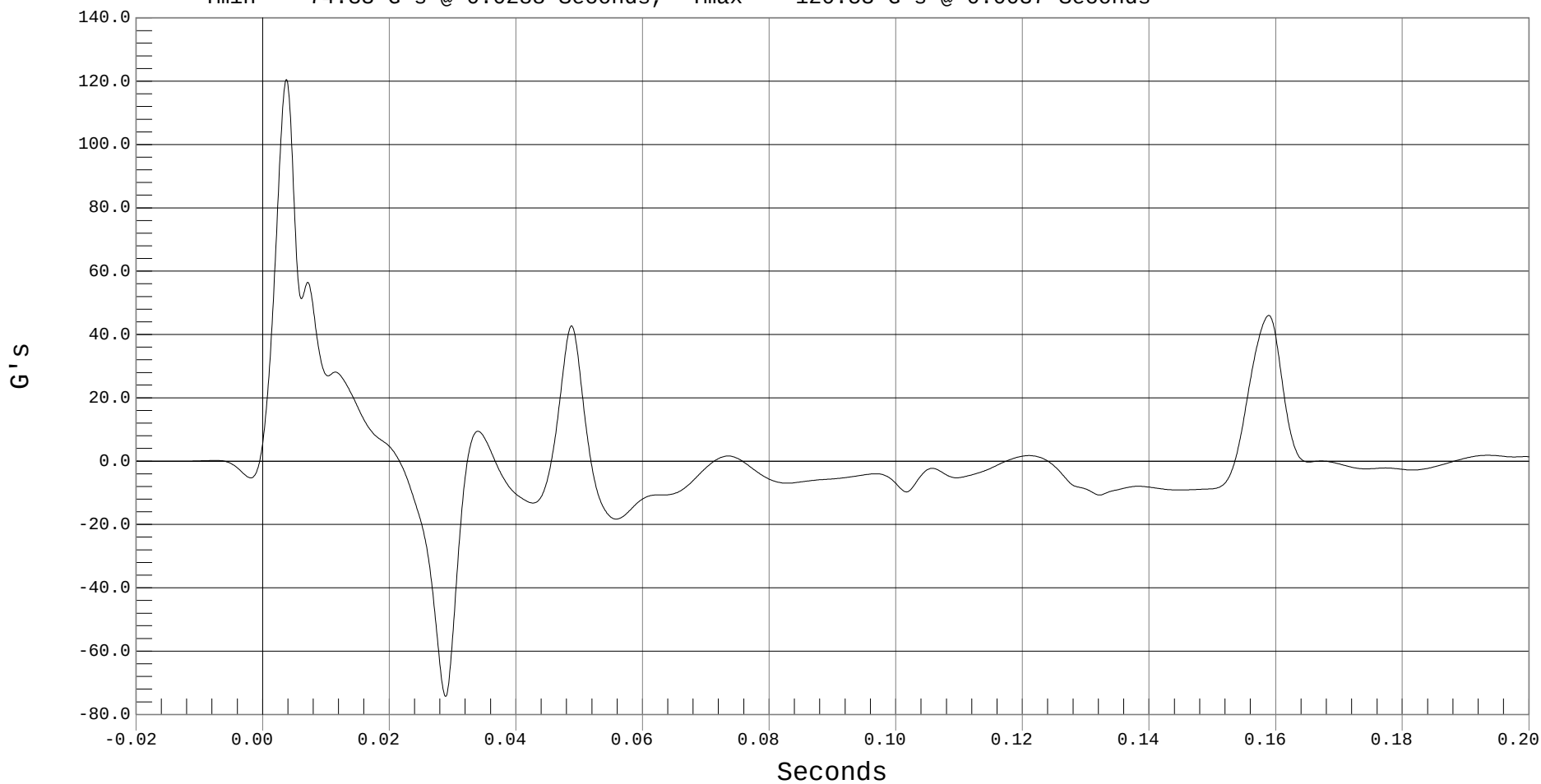
LEFT LOWER A-POST Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

1 LEFT LOWER A-POST Y, B01102AF.A38

Ymin = -74.33 G's @ 0.0288 Seconds, Ymax = 120.53 G's @ 0.0037 Seconds





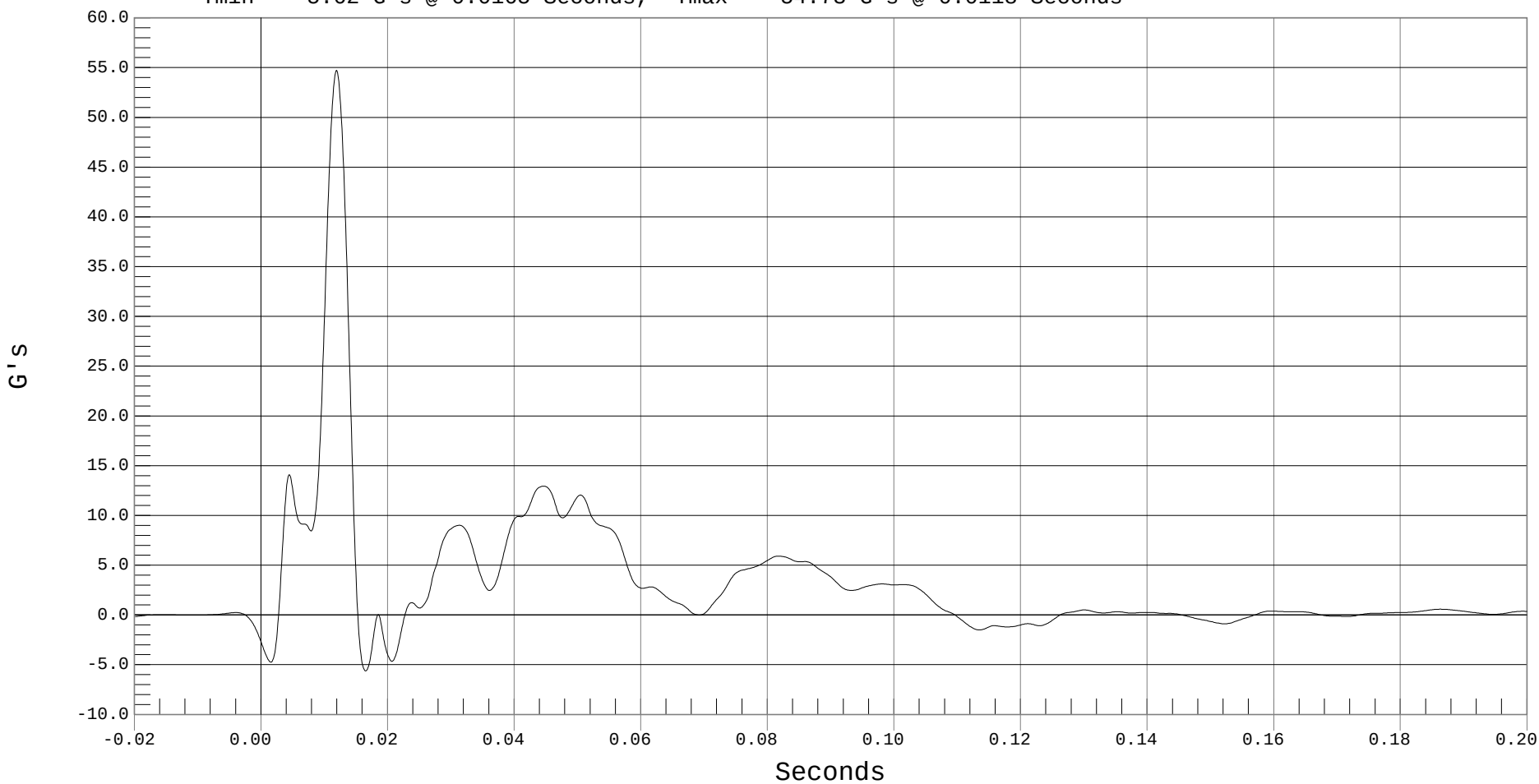
LEFT MID A-POST Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT MID A-POST Y, B01102AF.A37

Ymin = -5.62 G's @ 0.0165 Seconds, Ymax = 54.73 G's @ 0.0118 Seconds





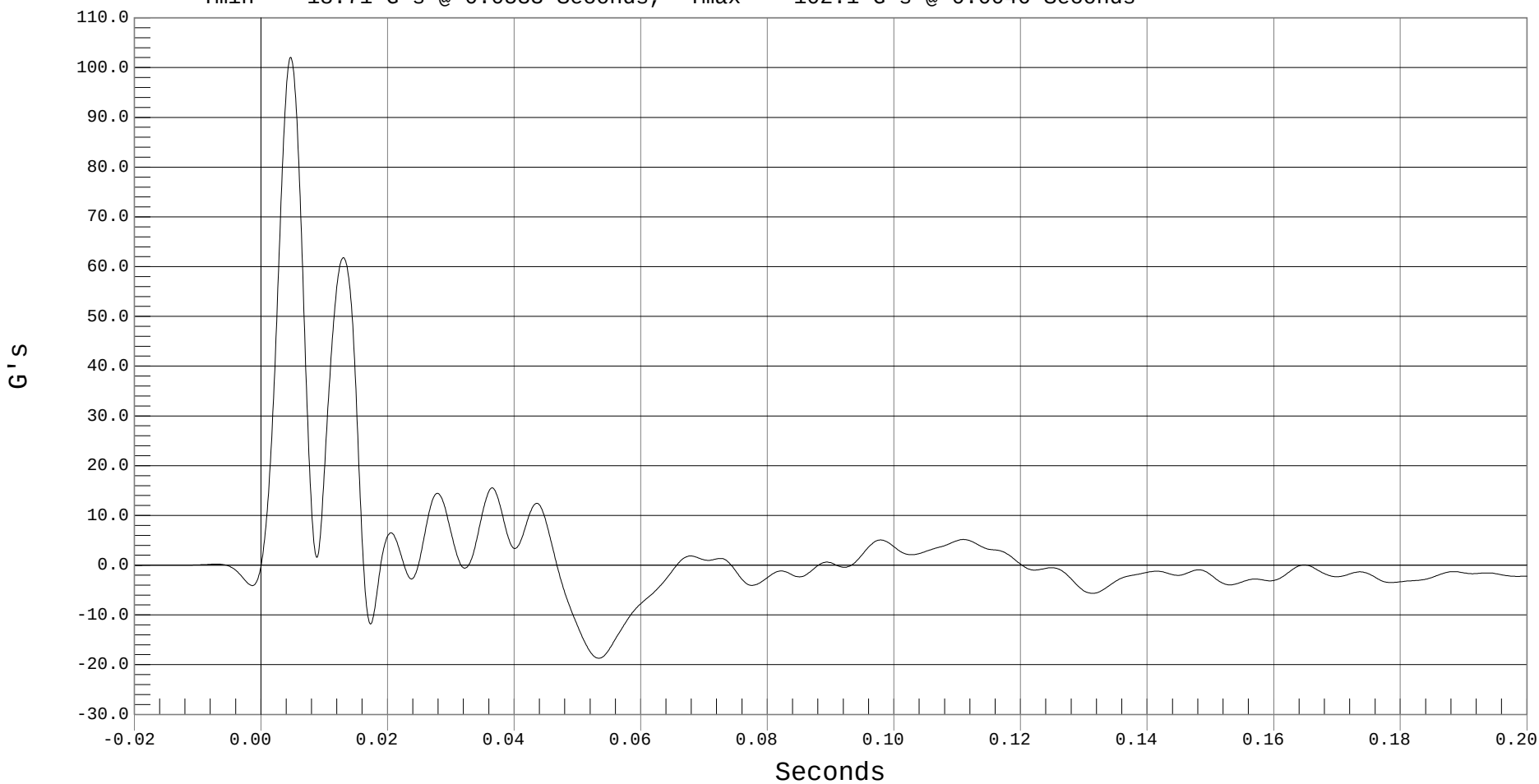
LEFT LOWER B-POST Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

1 LEFT LOWER B-POST Y, B01102AF.A41

Ymin = -18.71 G's @ 0.0533 Seconds, Ymax = 102.1 G's @ 0.0046 Seconds





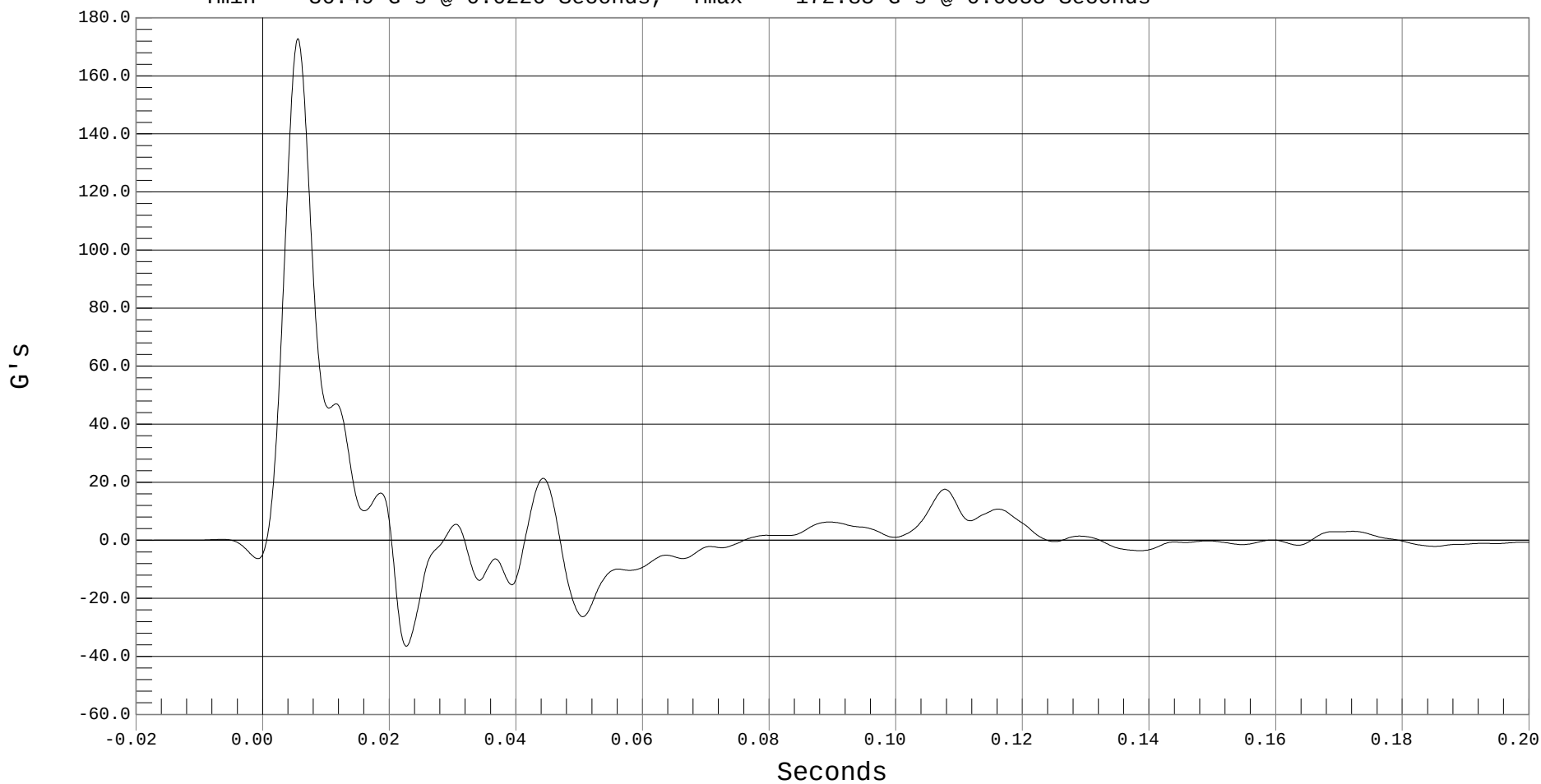
LEFT MID B-POST Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT MID B-POST Y, B01102AF.A40

Ymin = -36.49 G's @ 0.0226 Seconds, Ymax = 172.85 G's @ 0.0055 Seconds





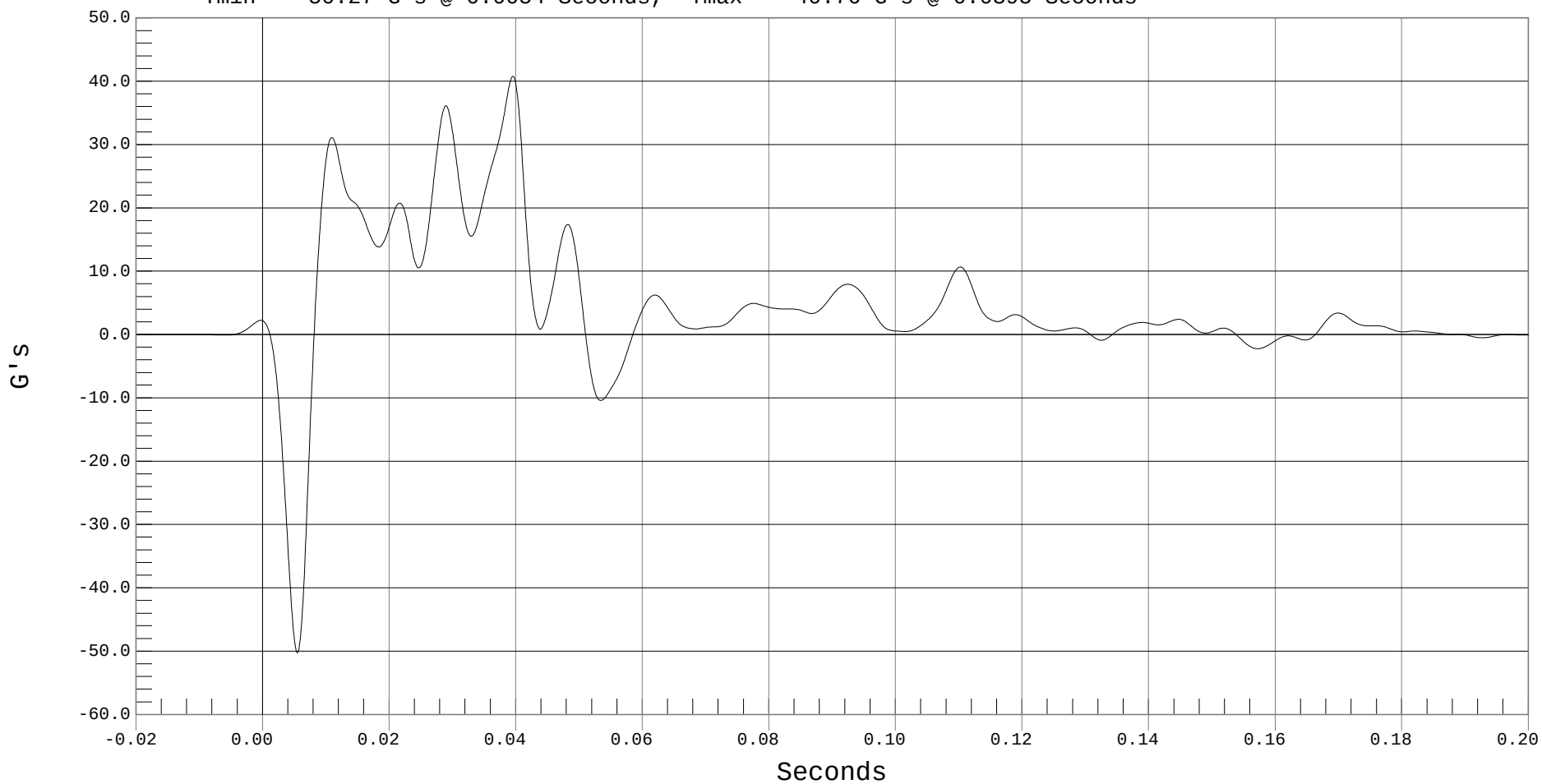
LEFT UPPER B-POST Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

1 LEFT UPPER B-POST Y, B01102AF.A39

Ymin = -50.27 G's @ 0.0054 Seconds, Ymax = 40.76 G's @ 0.0395 Seconds





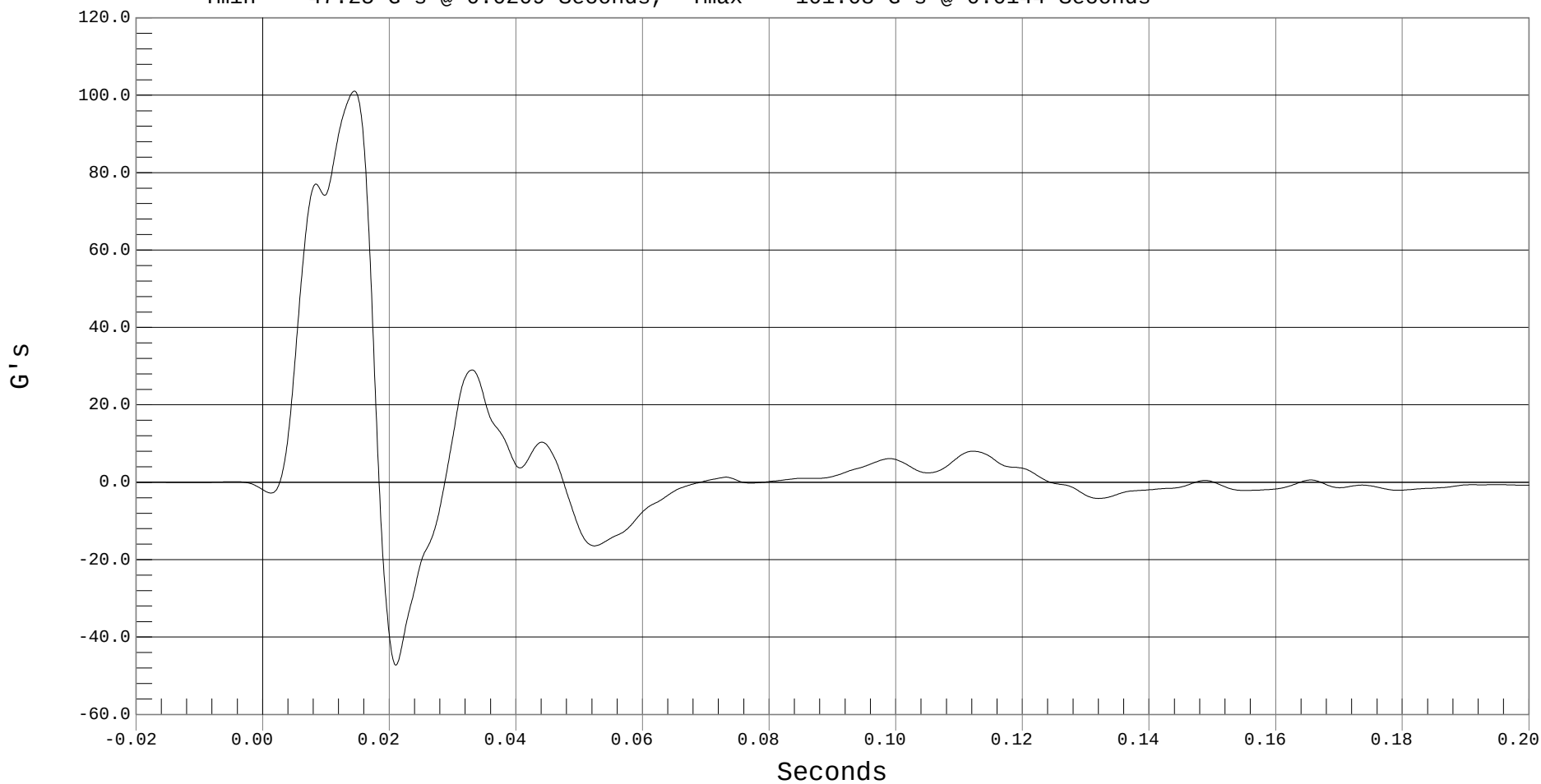
LEFT DRIVER SEAT TRACK Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 DRIVER LEFT SEAT TRACK Y, B01102AF.A42

Ymin = -47.25 G's @ 0.0209 Seconds, Ymax = 101.08 G's @ 0.0144 Seconds





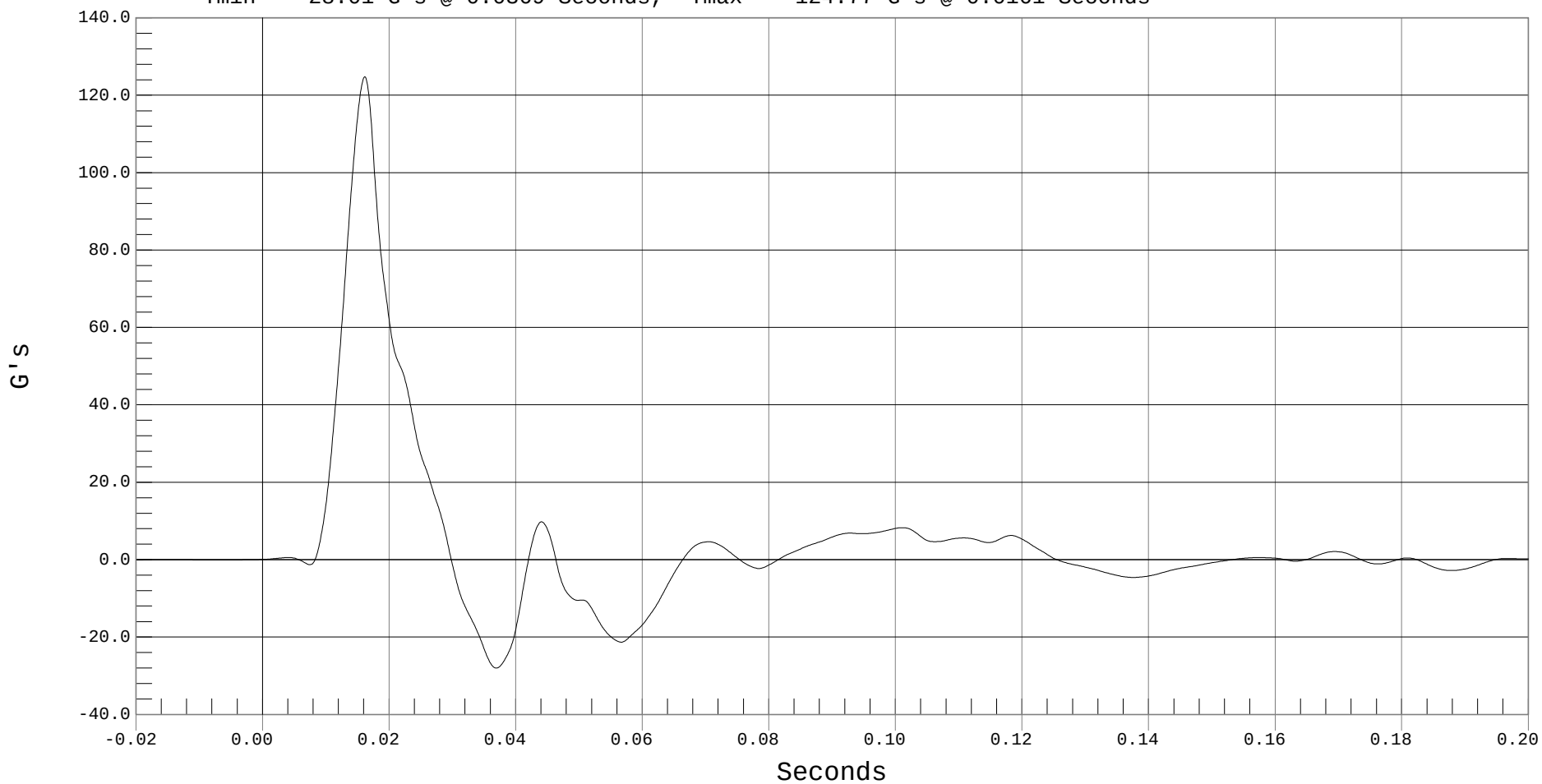
DRIVER LEFT SEAT FRAME Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 DRIVER LEFT SEAT FRAME Y, B01102AF.A55

Ymin = -28.01 G's @ 0.0369 Seconds, Ymax = 124.77 G's @ 0.0161 Seconds





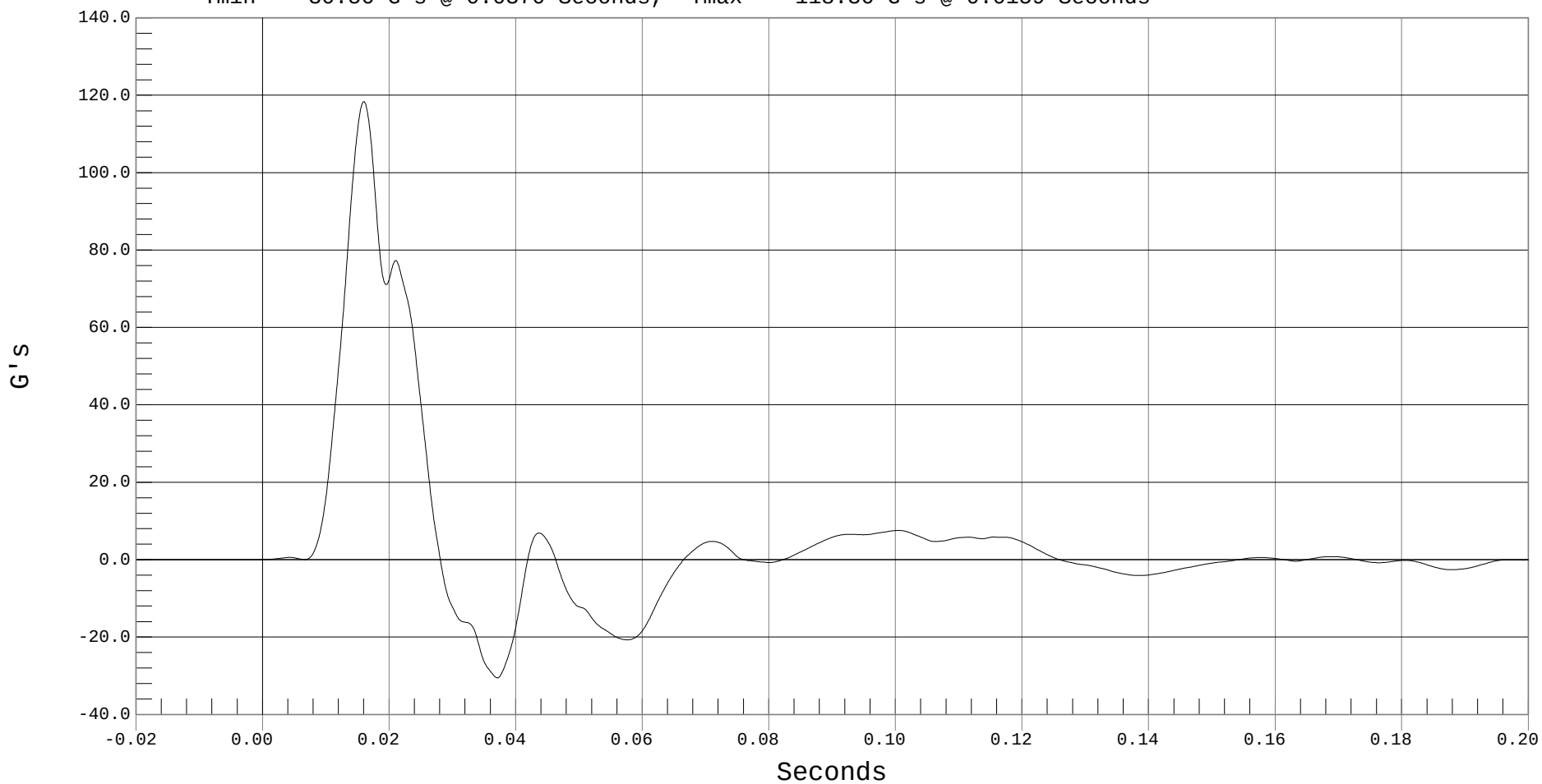
DRIVER RIGHT SEAT FRAME Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 DRIVER RIGHT SEAT FRAME Y, B01102AF.A43

Ymin = -30.56 G's @ 0.0370 Seconds, Ymax = 118.36 G's @ 0.0159 Seconds





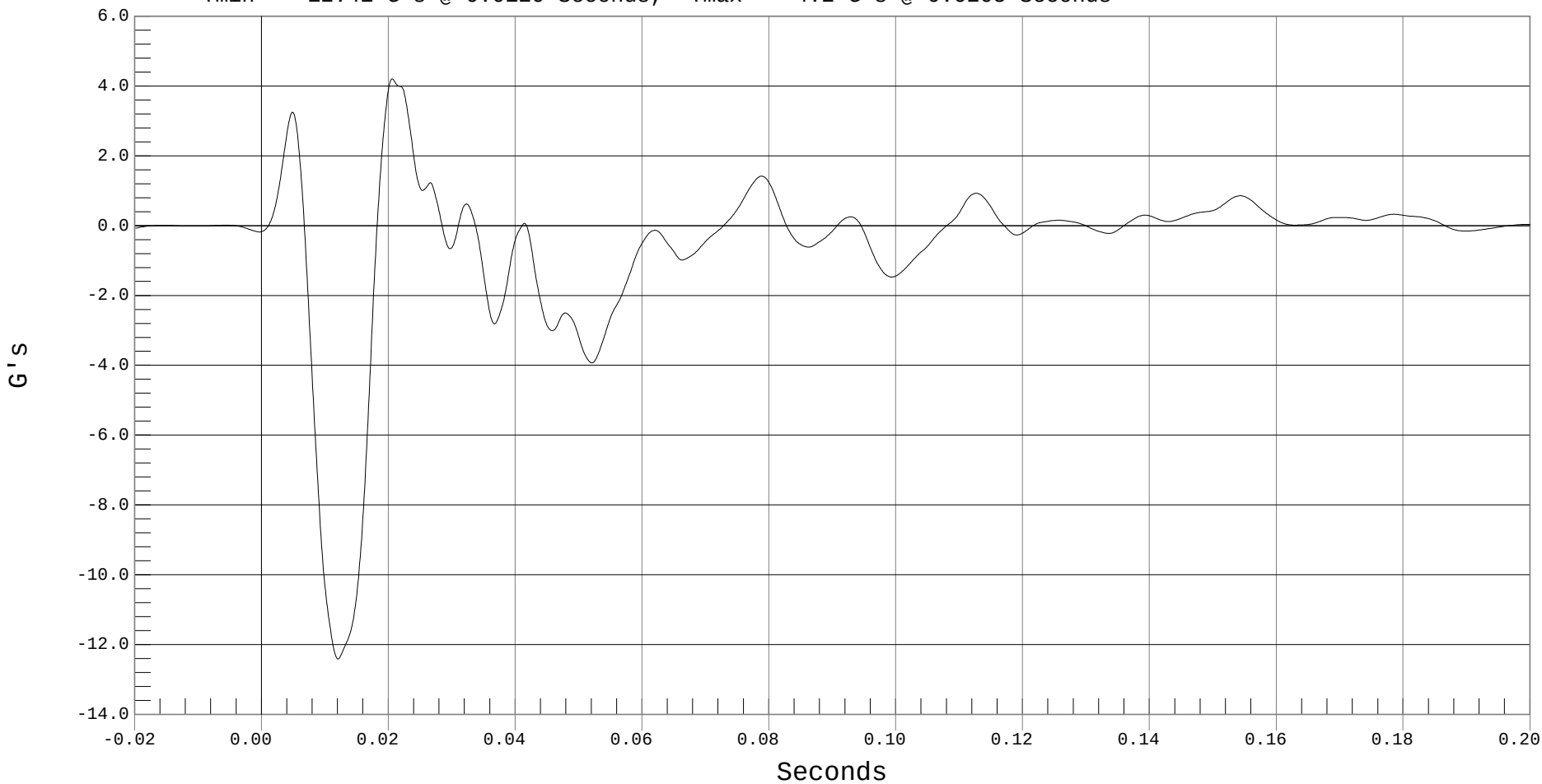
VEHICLE CG X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 VEHICLE CG X, B01102AF.A44

Ymin = -12.41 G's @ 0.0120 Seconds, Ymax = 4.2 G's @ 0.0205 Seconds





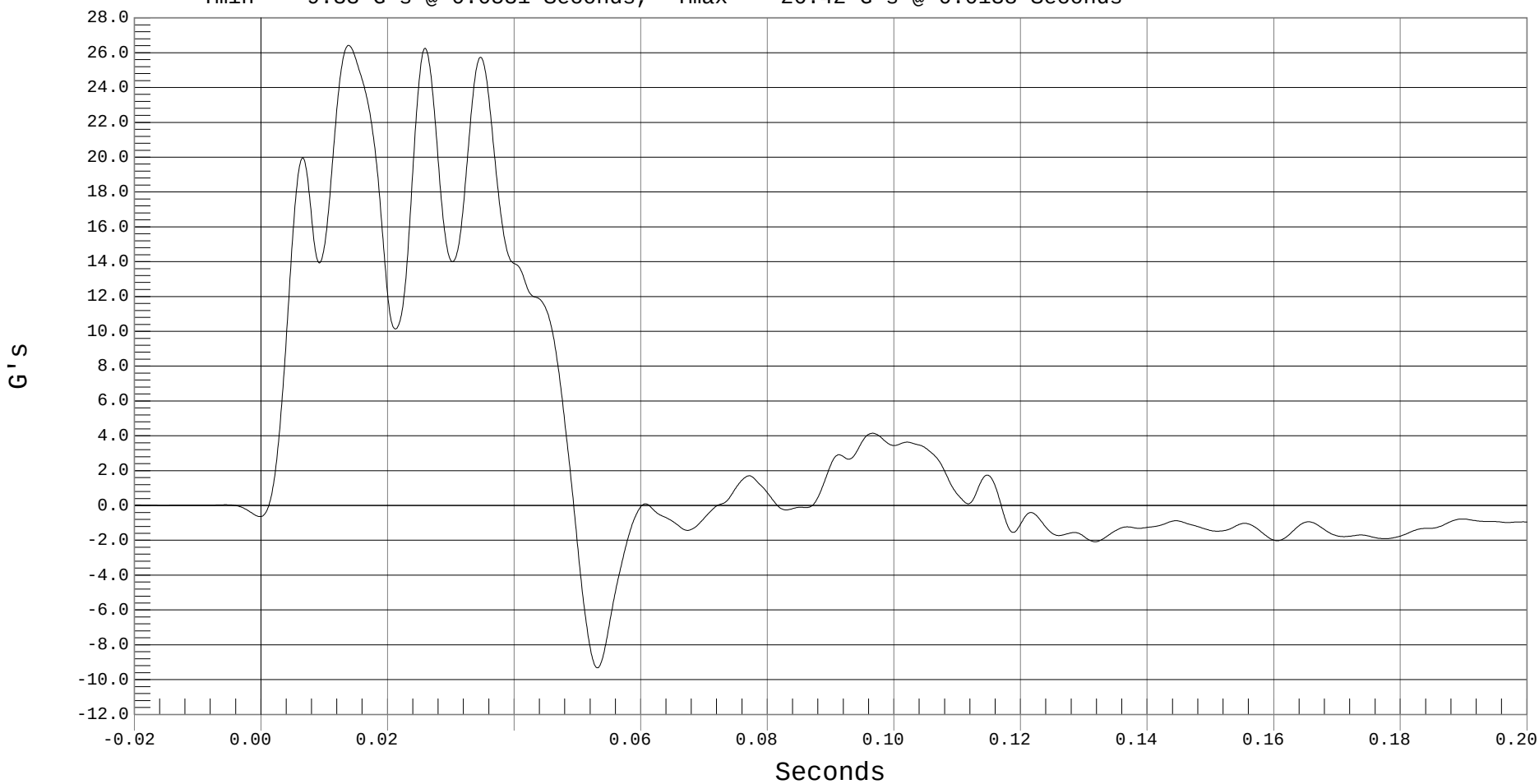
VEHICLE CG Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 VEHICLE CG Y, B01102AF.A45

Ymin = -9.33 G's @ 0.0531 Seconds, Ymax = 26.42 G's @ 0.0138 Seconds





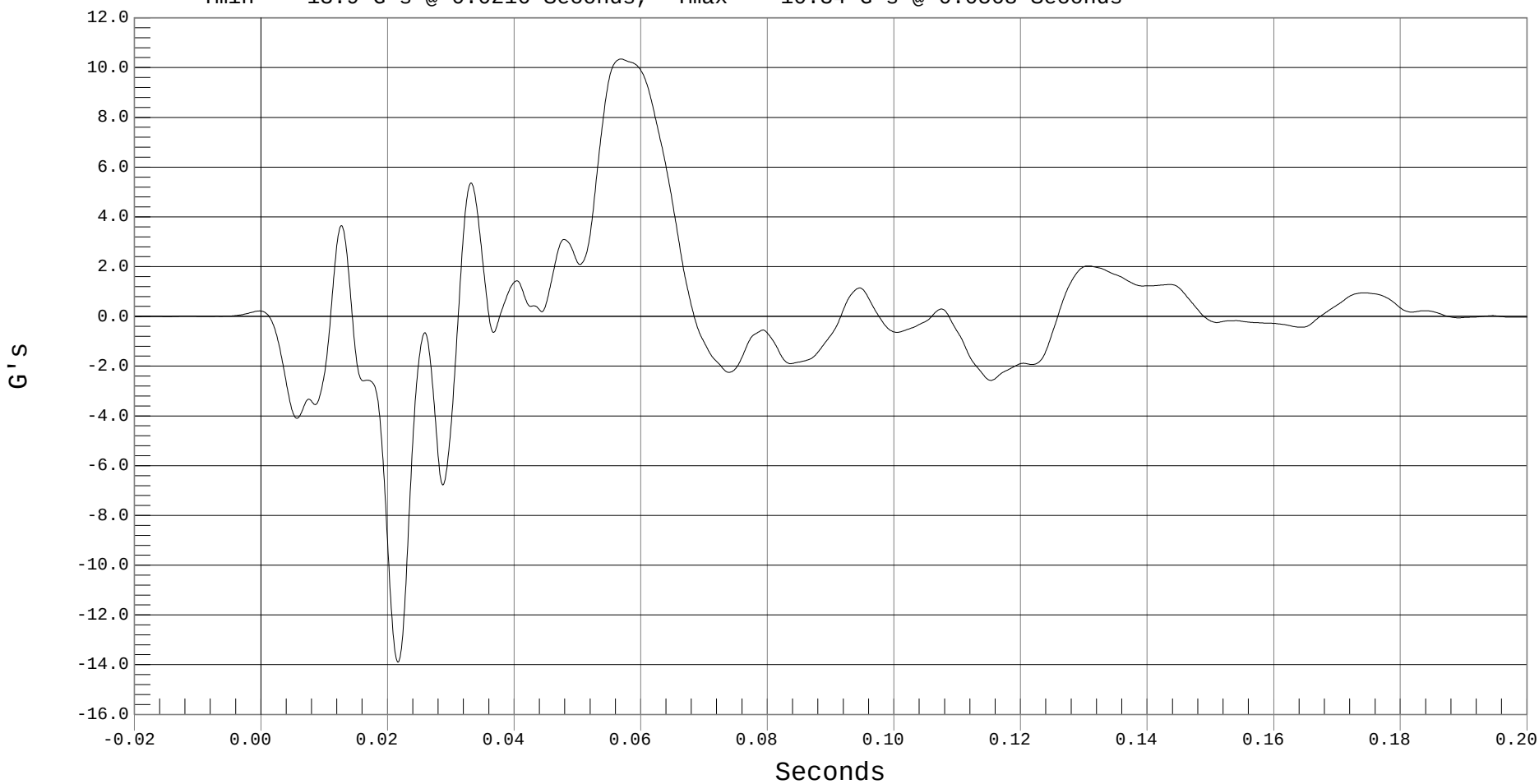
VEHICLE CG Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 VEHICLE CG Z, B01102AF.A46

Ymin = -13.9 G's @ 0.0216 Seconds, Ymax = 10.34 G's @ 0.0568 Seconds





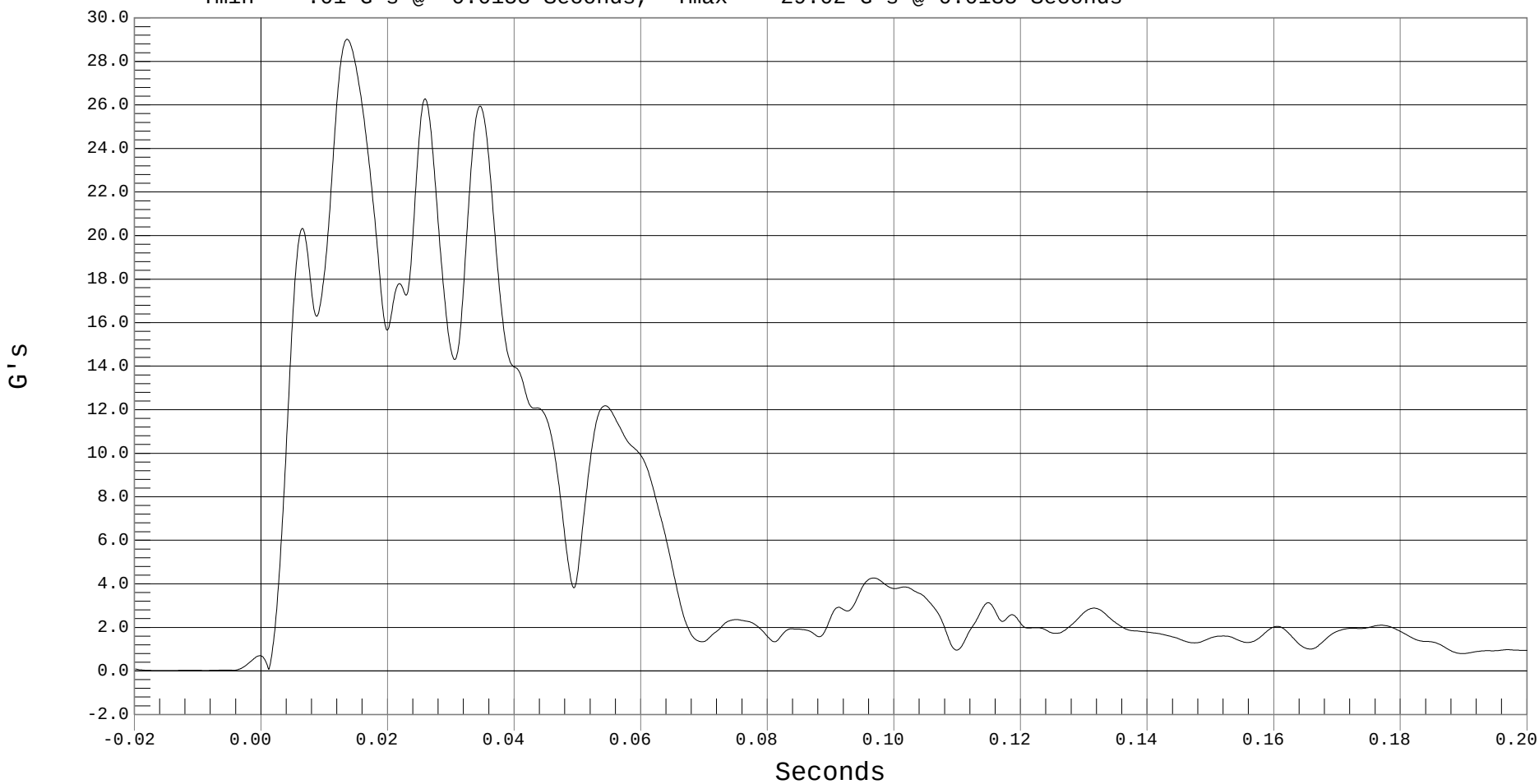
VEHICLE CG RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 VEHICLE CG RESULTANT ACCELERATION, B01102AV.A44

Ymin = .01 G's @ -0.0158 Seconds, Ymax = 29.02 G's @ 0.0135 Seconds





LEFT REAR DOOR @ MID RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT

Component: 2001 FORD FOCUS 4 DOOR

Other Info:

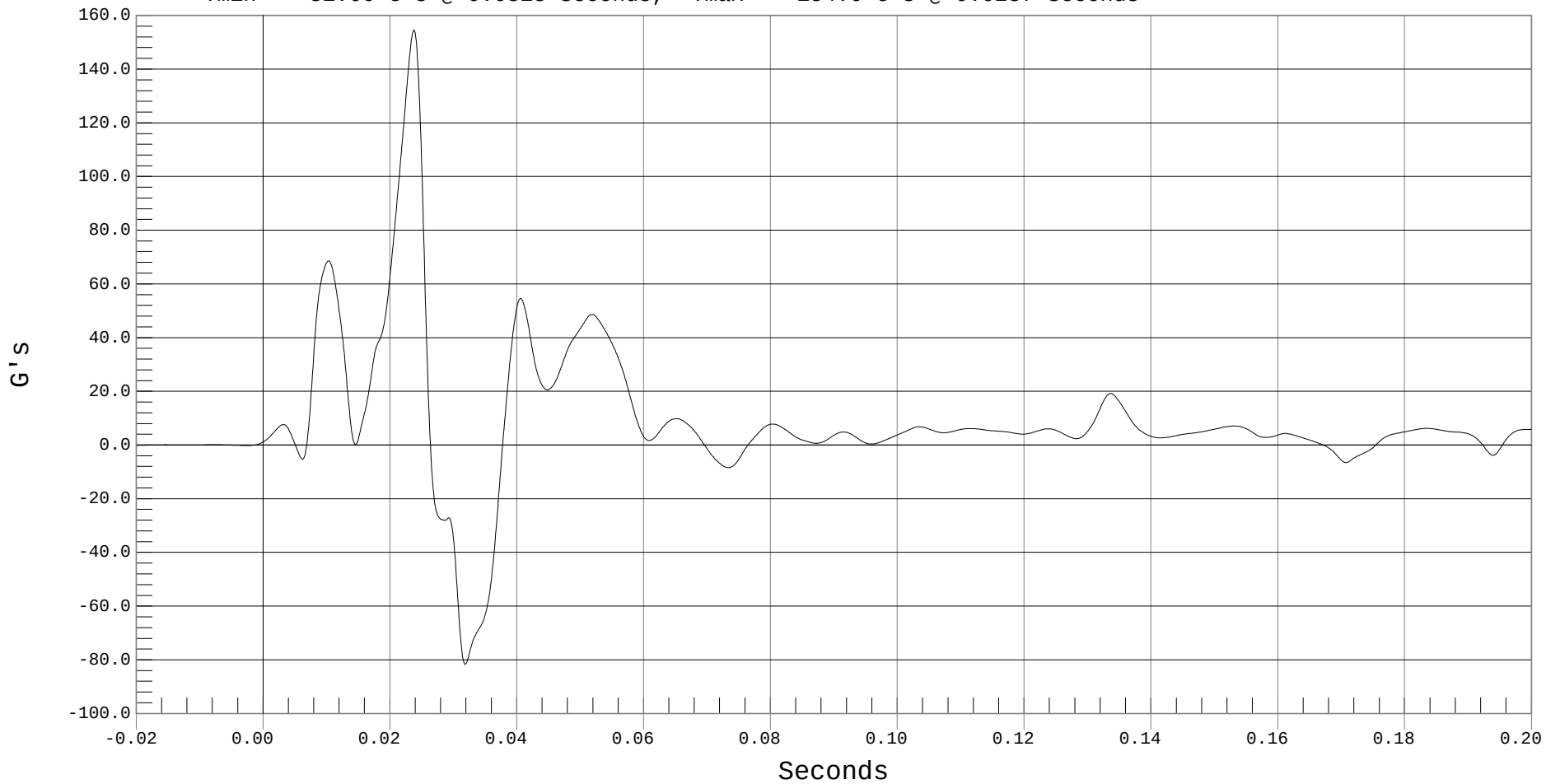
Test Date: 10-05-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 LEFT REAR DOOR @ MID RIB Y, B01102AF.A47

Ymin = -81.66 G's @ 0.0318 Seconds, Ymax = 154.6 G's @ 0.0237 Seconds





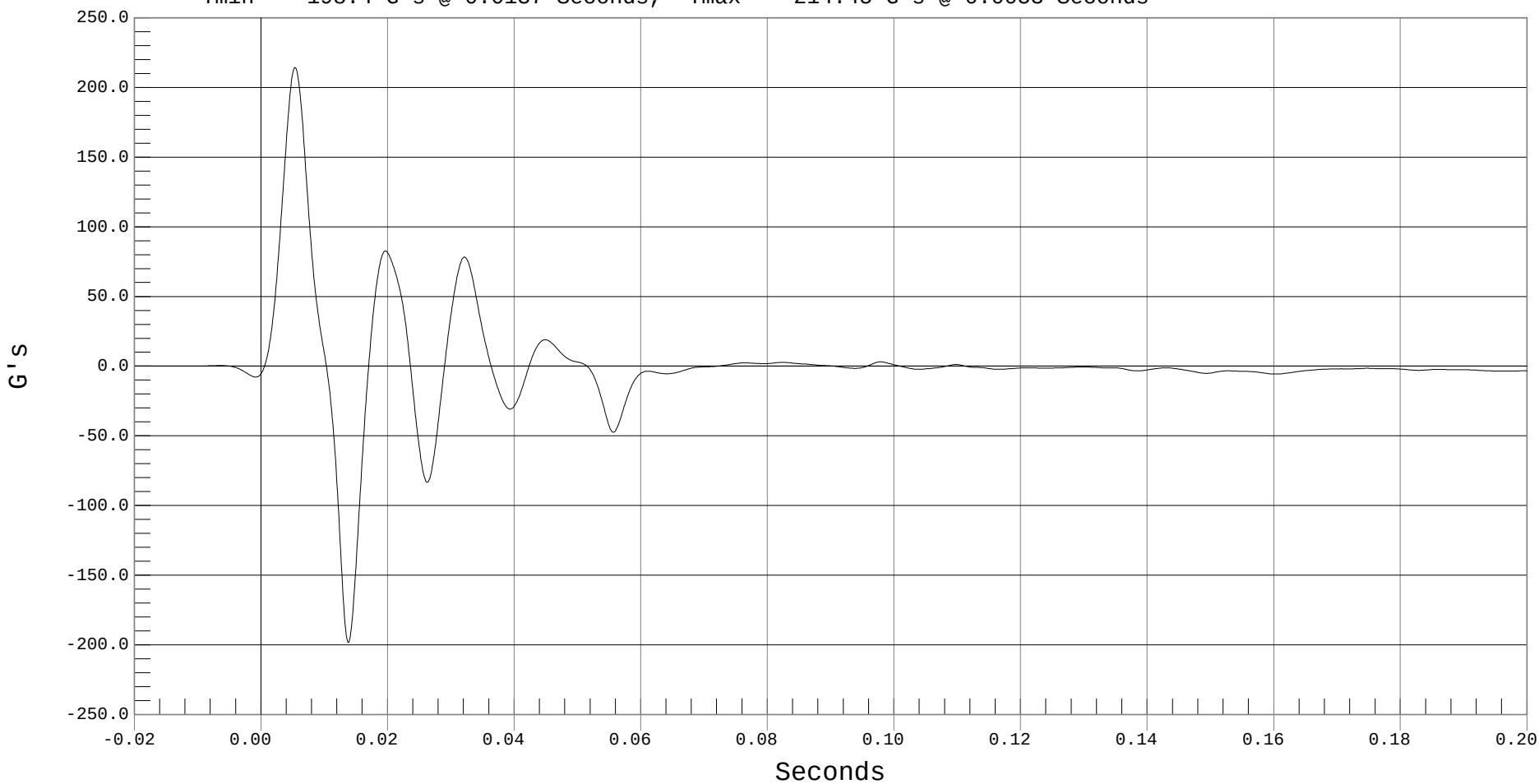
LEFT REAR DOOR @ PELVIS Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT REAR DOOR @ PELVIS Y, B01102AF.A48

Ymin = -198.4 G's @ 0.0137 Seconds, Ymax = 214.45 G's @ 0.0053 Seconds





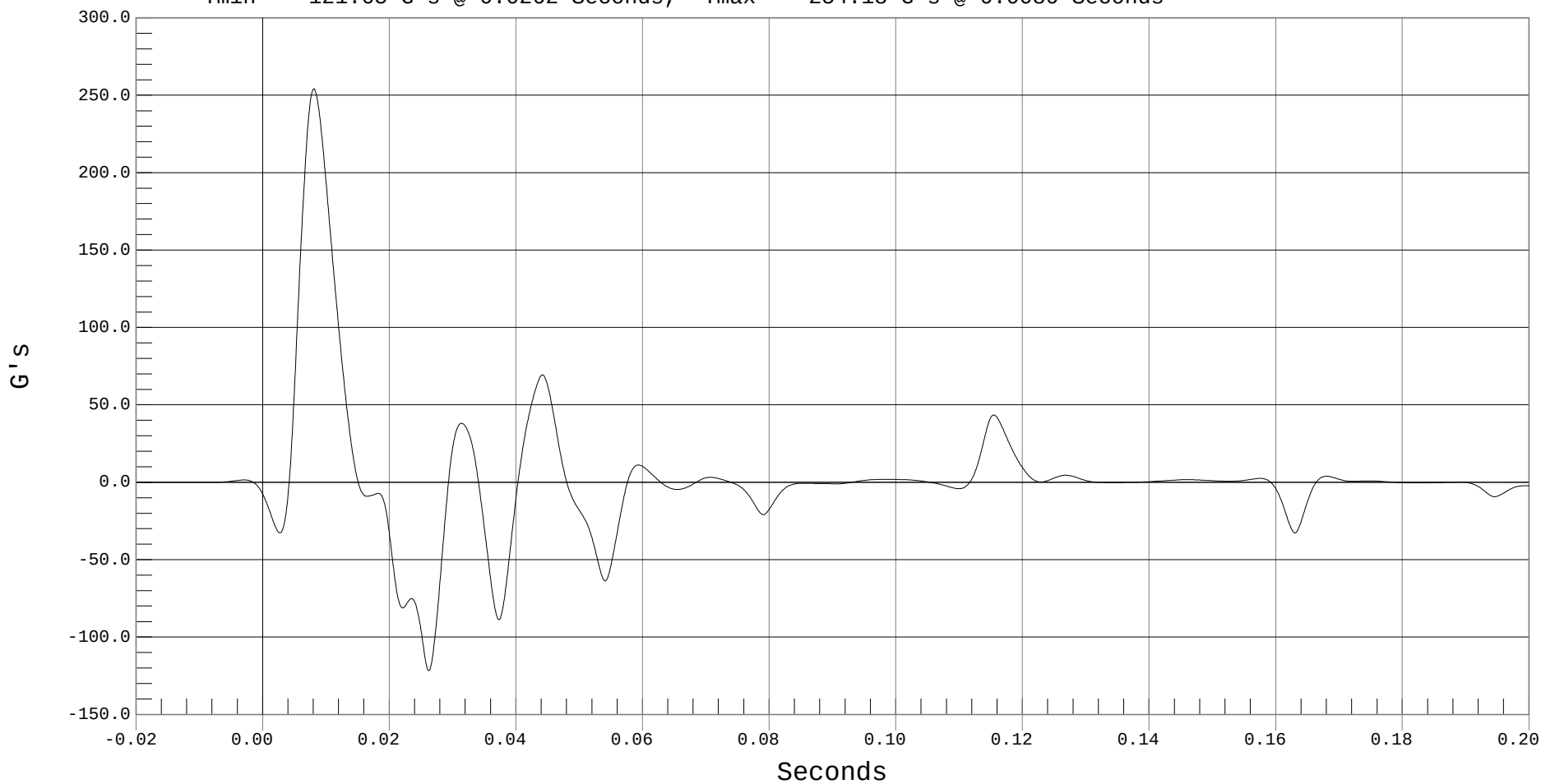
LEFT REAR DOOR @ KNEE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT REAR DOOR @ KNEE Y, B01102AF.A49

Ymin = -121.65 G's @ 0.0262 Seconds, Ymax = 254.18 G's @ 0.0080 Seconds





LEFT REAR DOOR @ ARM Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT

Component: 2001 FORD FOCUS 4 DOOR

Other Info:

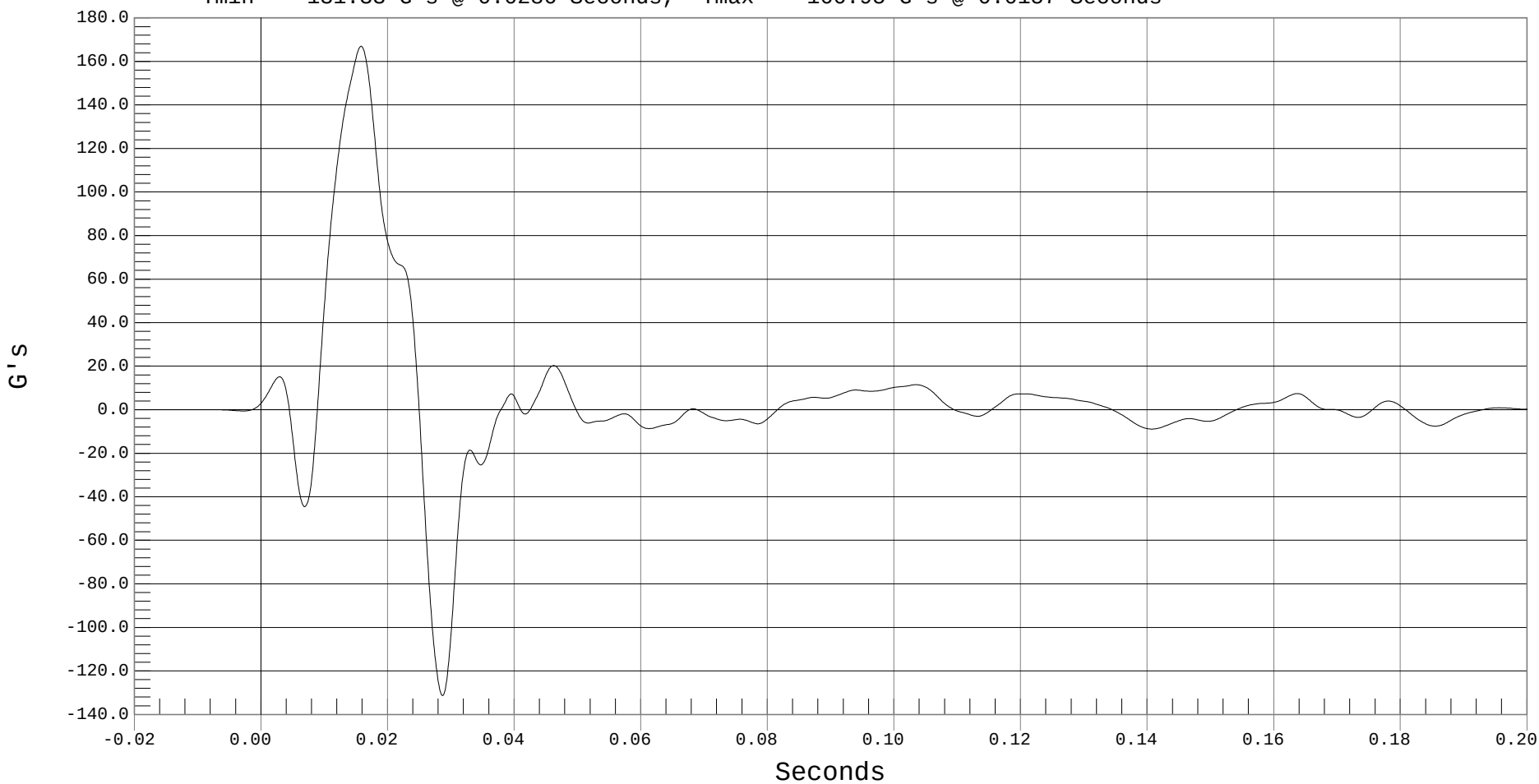
Test Date: 10-05-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 LEFT REAR DOOR @ ARM Y, B01102AF.A50

Ymin = -131.33 G's @ 0.0286 Seconds, Ymax = 166.95 G's @ 0.0157 Seconds





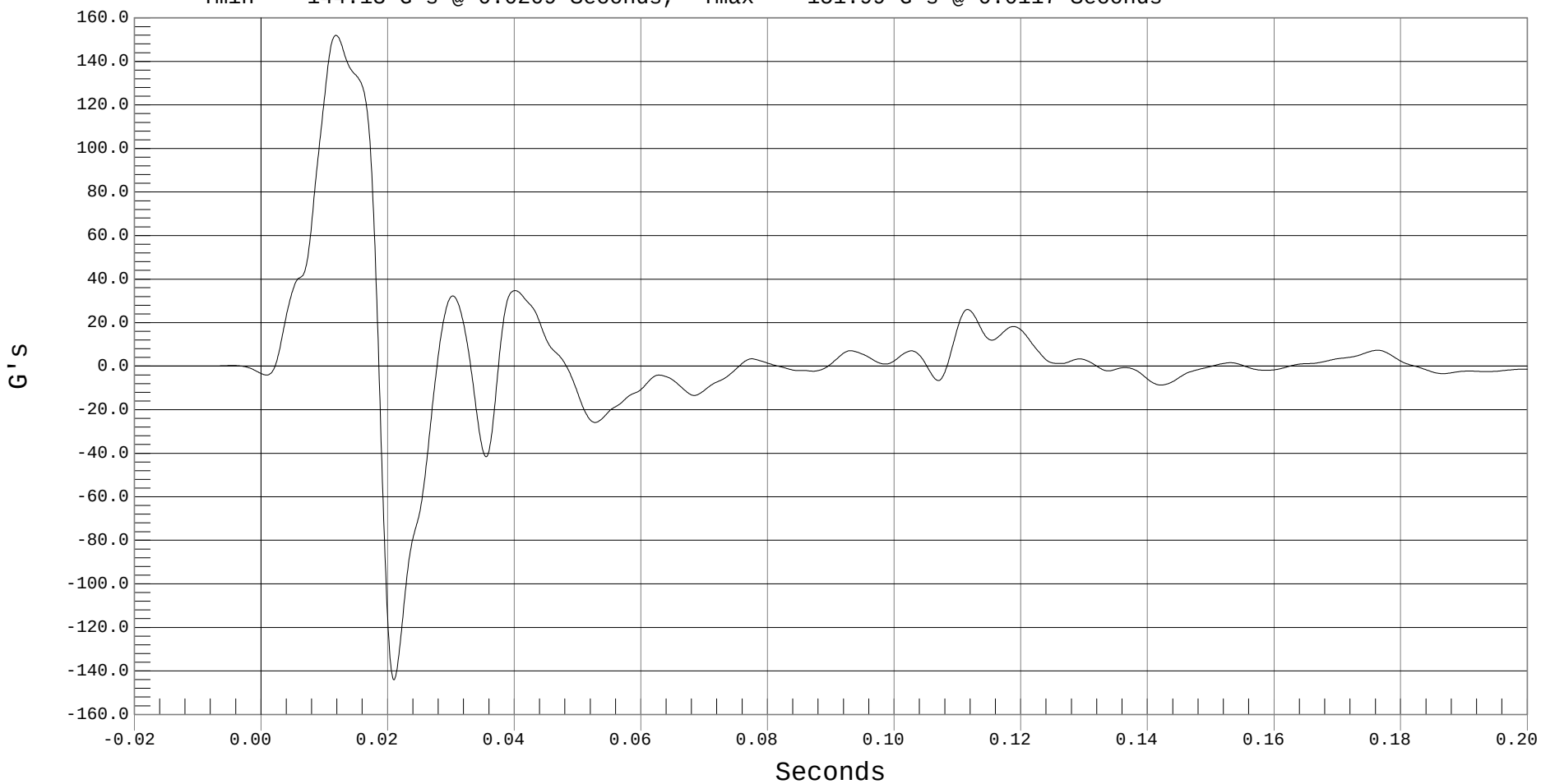
LEFT FRONT DOOR @ MID RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT FRONT DOOR @ MID RIB, B01102AF.A51

Ymin = -144.13 G's @ 0.0209 Seconds, Ymax = 151.99 G's @ 0.0117 Seconds





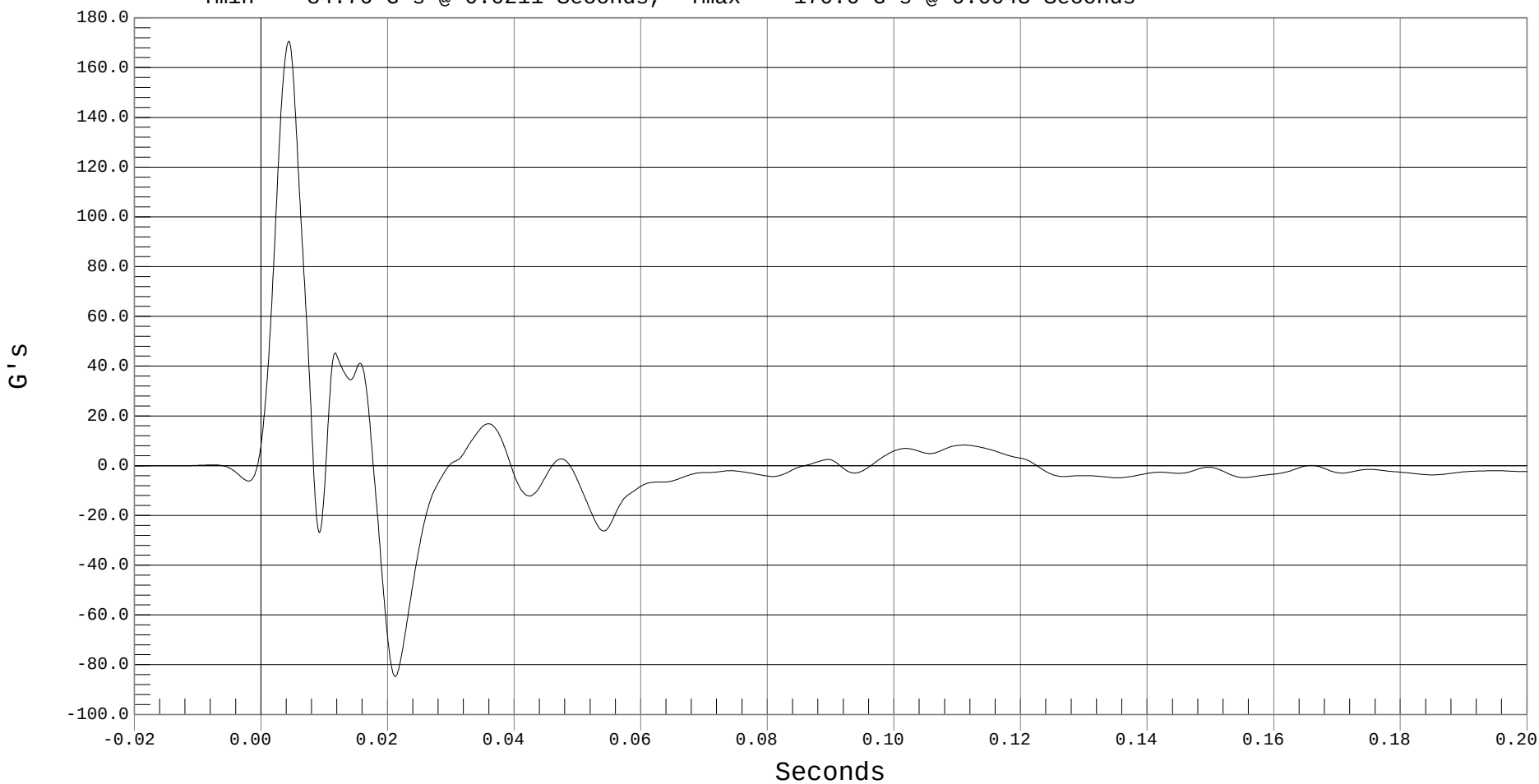
LEFT FRONT DOOR @ PELVIS Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT FRONT DOOR @ PELVIS, B01102AF.A52

Ymin = -84.76 G's @ 0.0211 Seconds, Ymax = 170.6 G's @ 0.0043 Seconds





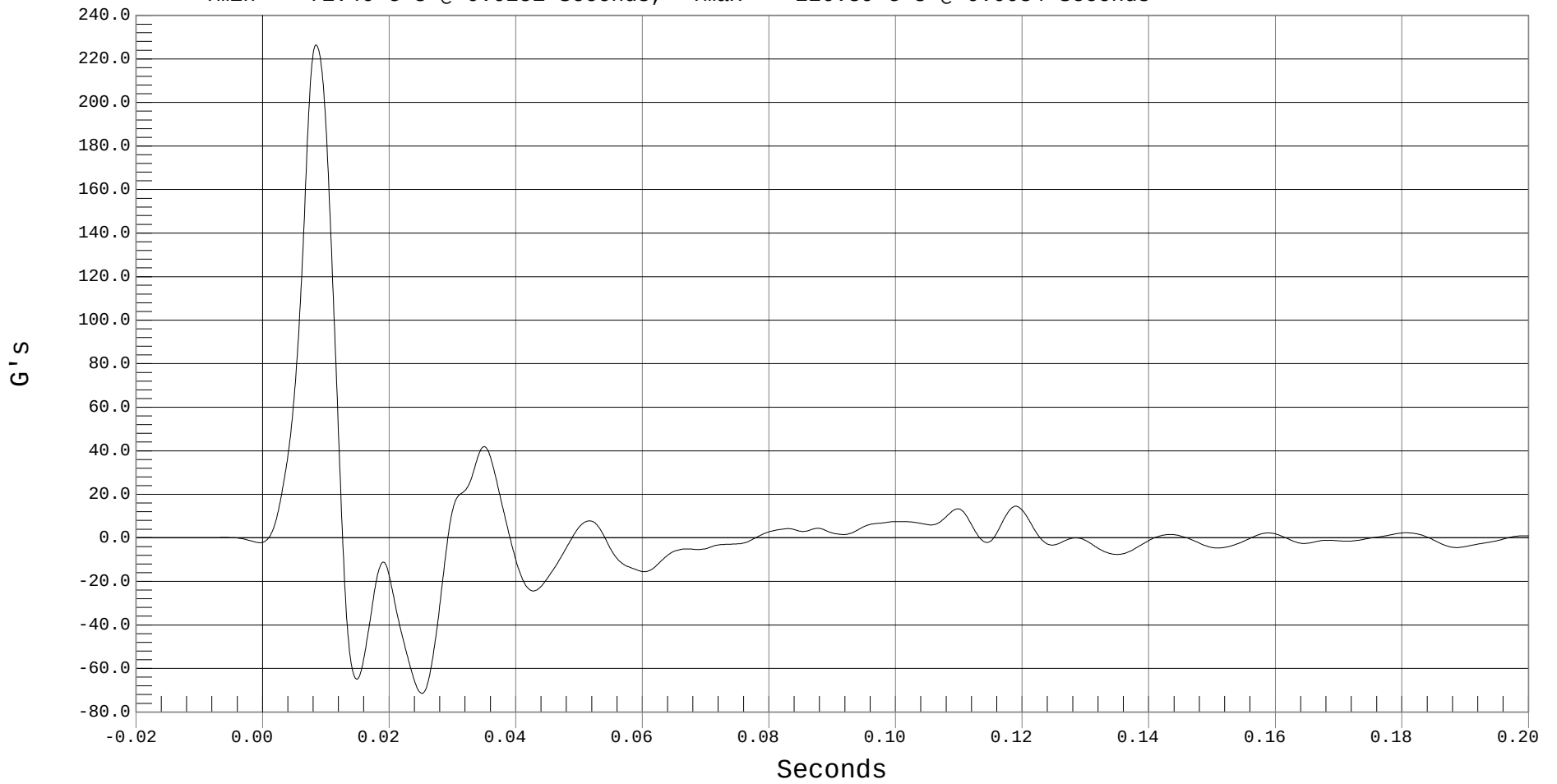
LEFT FRONT DOOR @ KNEE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT FRONT DOOR @ KNEE, B01102AF.A53

Ymin = -71.46 G's @ 0.0251 Seconds, Ymax = 226.39 G's @ 0.0084 Seconds





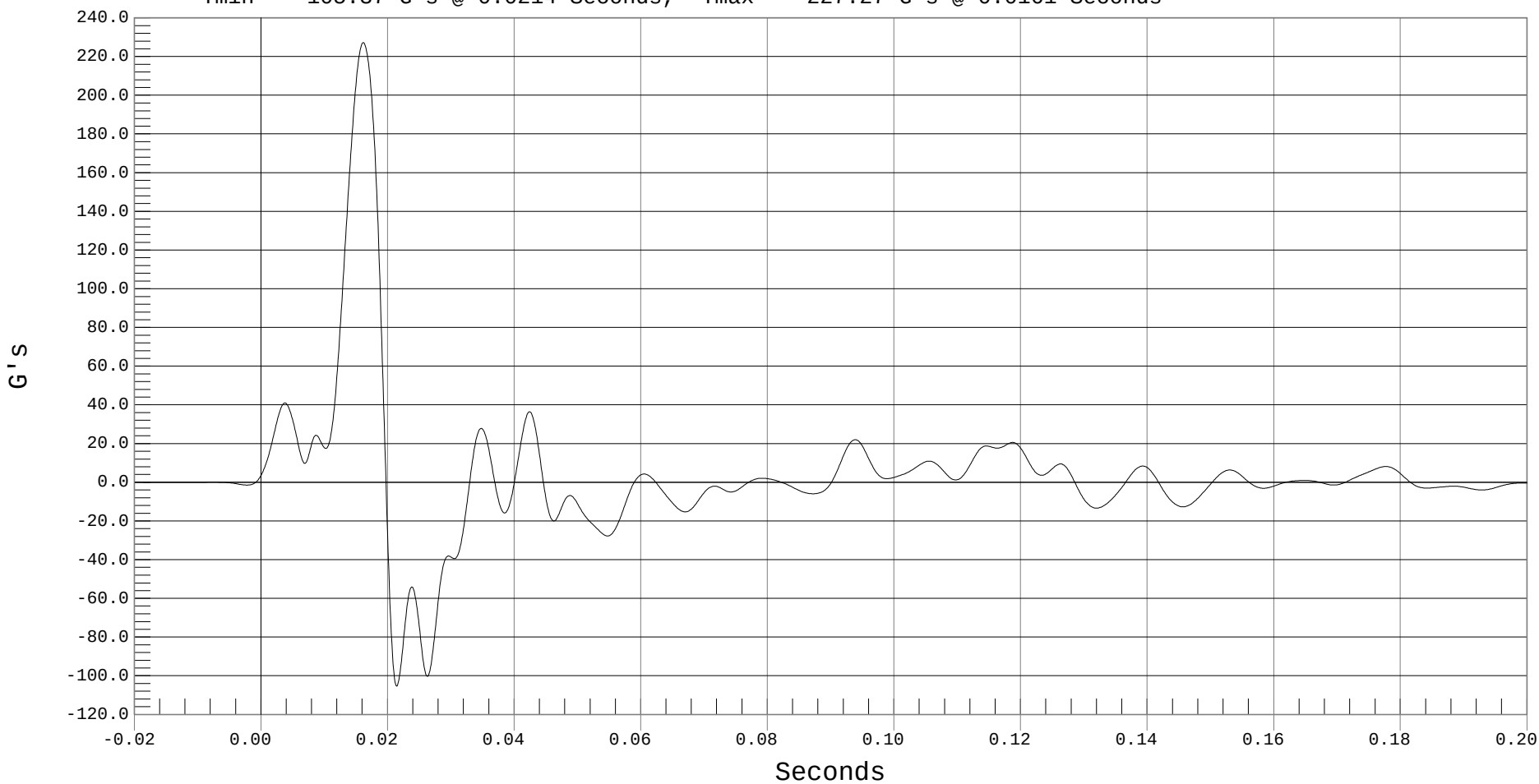
LEFT FRONT DOOR @ ARM Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

1 LEFT FRONT DOOR @ ARM, B01102AF.A54

Ymin = -105.37 G's @ 0.0214 Seconds, Ymax = 227.27 G's @ 0.0161 Seconds





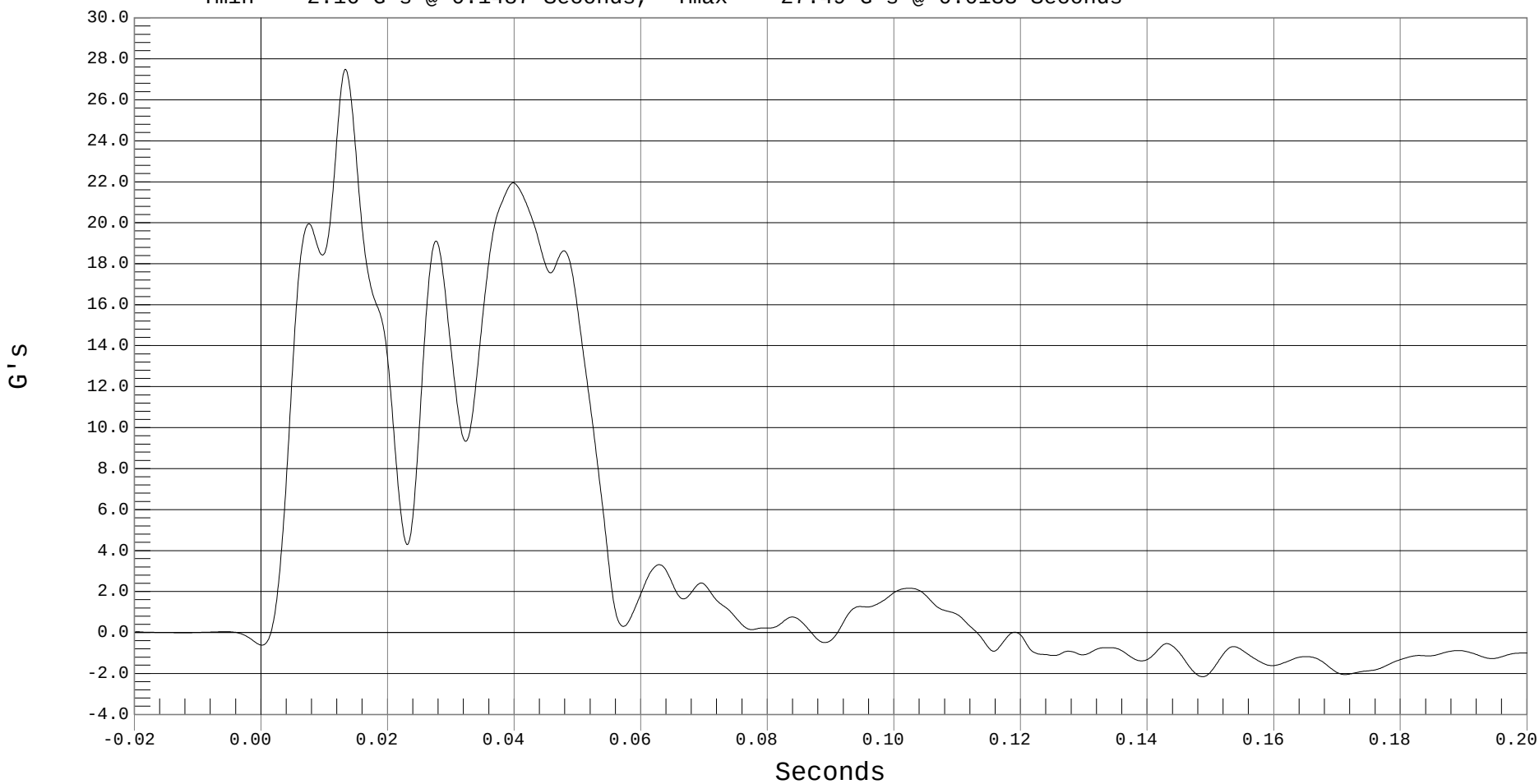
RIGHT REAR OCCUPANT COMPARTMENT Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT REAR OCC. COMPARTMENT Y, B01102AF.A62

Ymin = -2.16 G's @ 0.1487 Seconds, Ymax = 27.49 G's @ 0.0133 Seconds





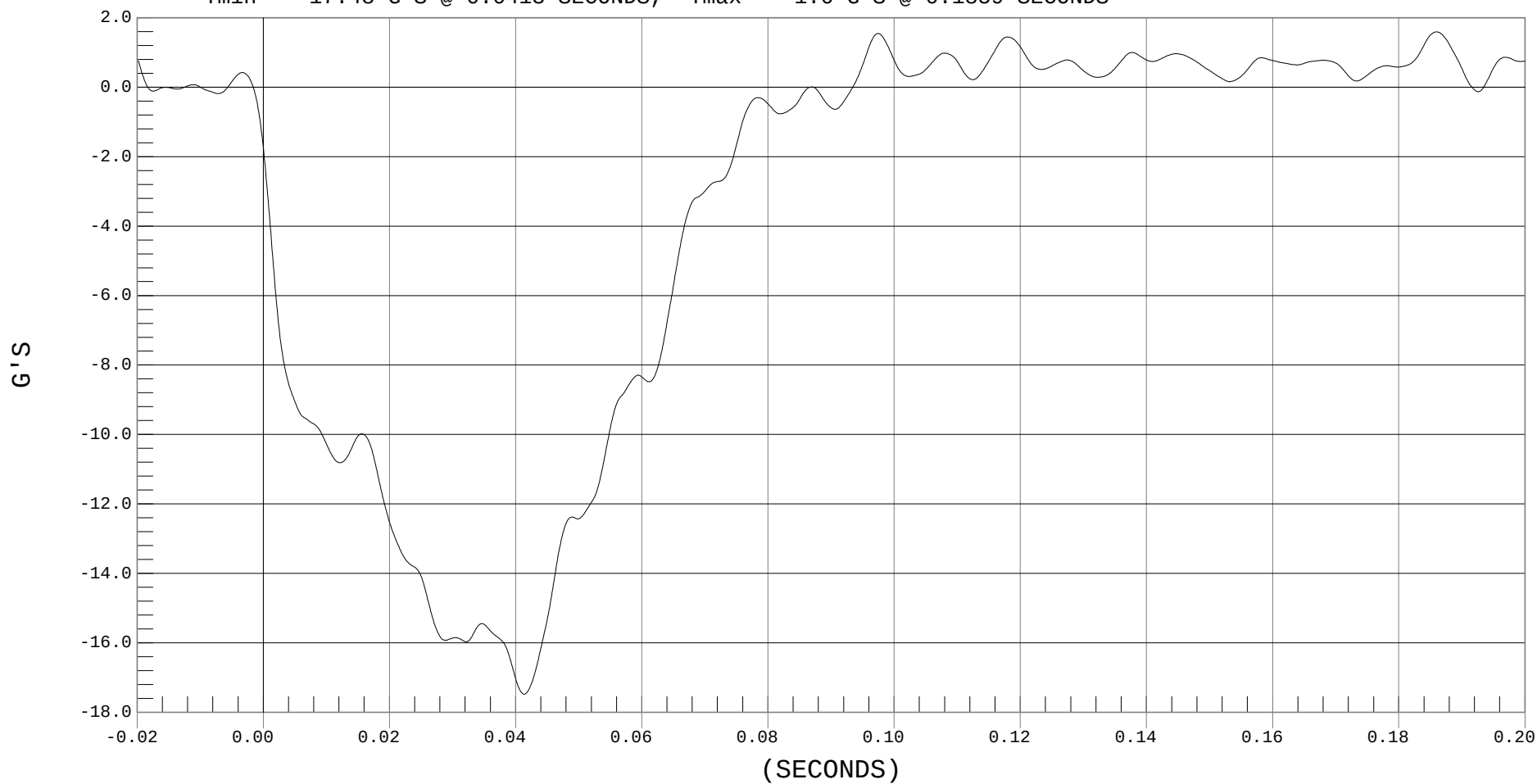
MOVING BARRIER CG X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART CG X ACCELERATION, B01102AF.A07

Ymin = -17.48 G'S @ 0.0413 SECONDS, Ymax = 1.6 G'S @ 0.1859 SECONDS





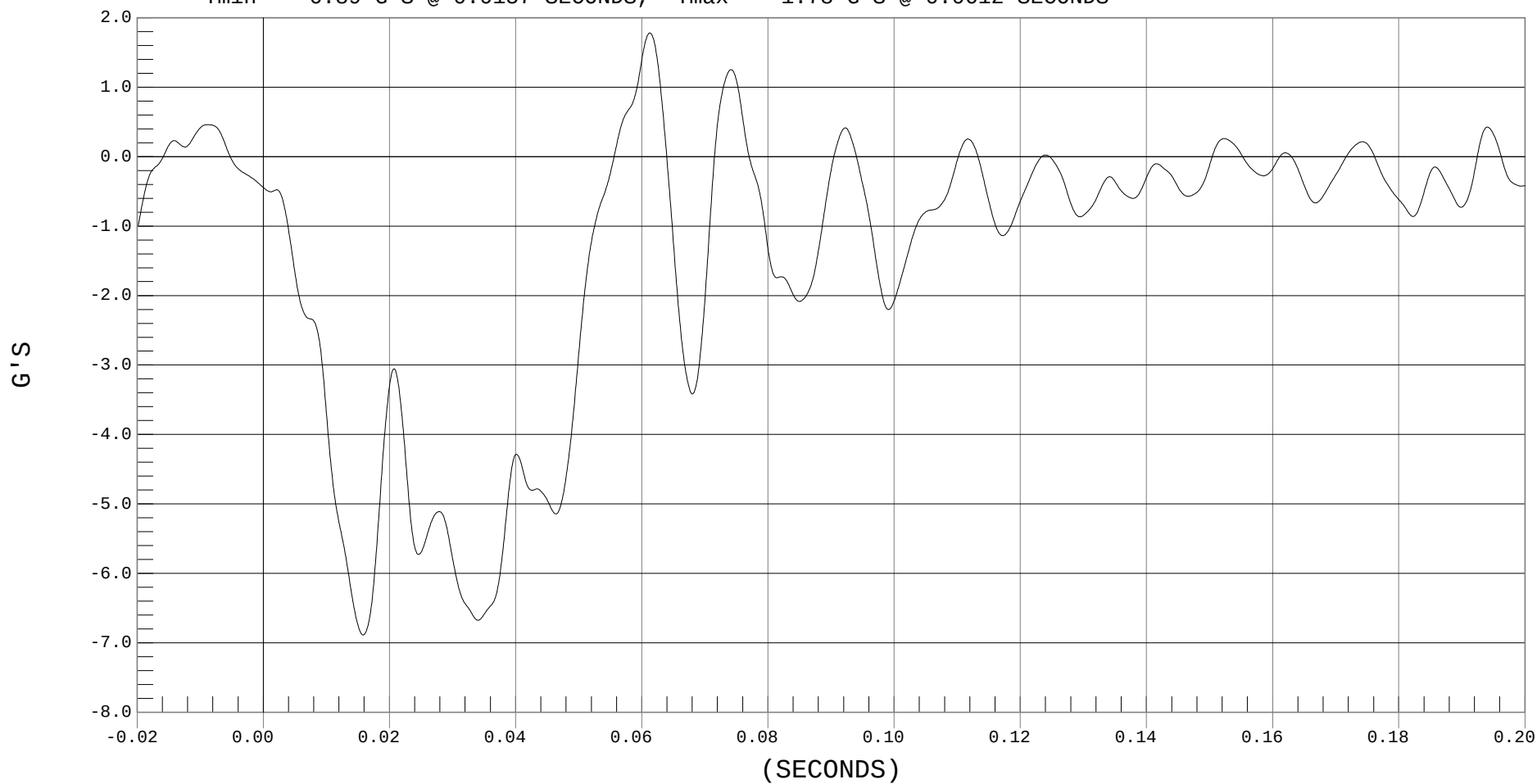
MOVING BARRIER CG Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART CG Y ACCELERATION, B01102AF.A03

Ymin = -6.89 G'S @ 0.0157 SECONDS, Ymax = 1.78 G'S @ 0.0612 SECONDS





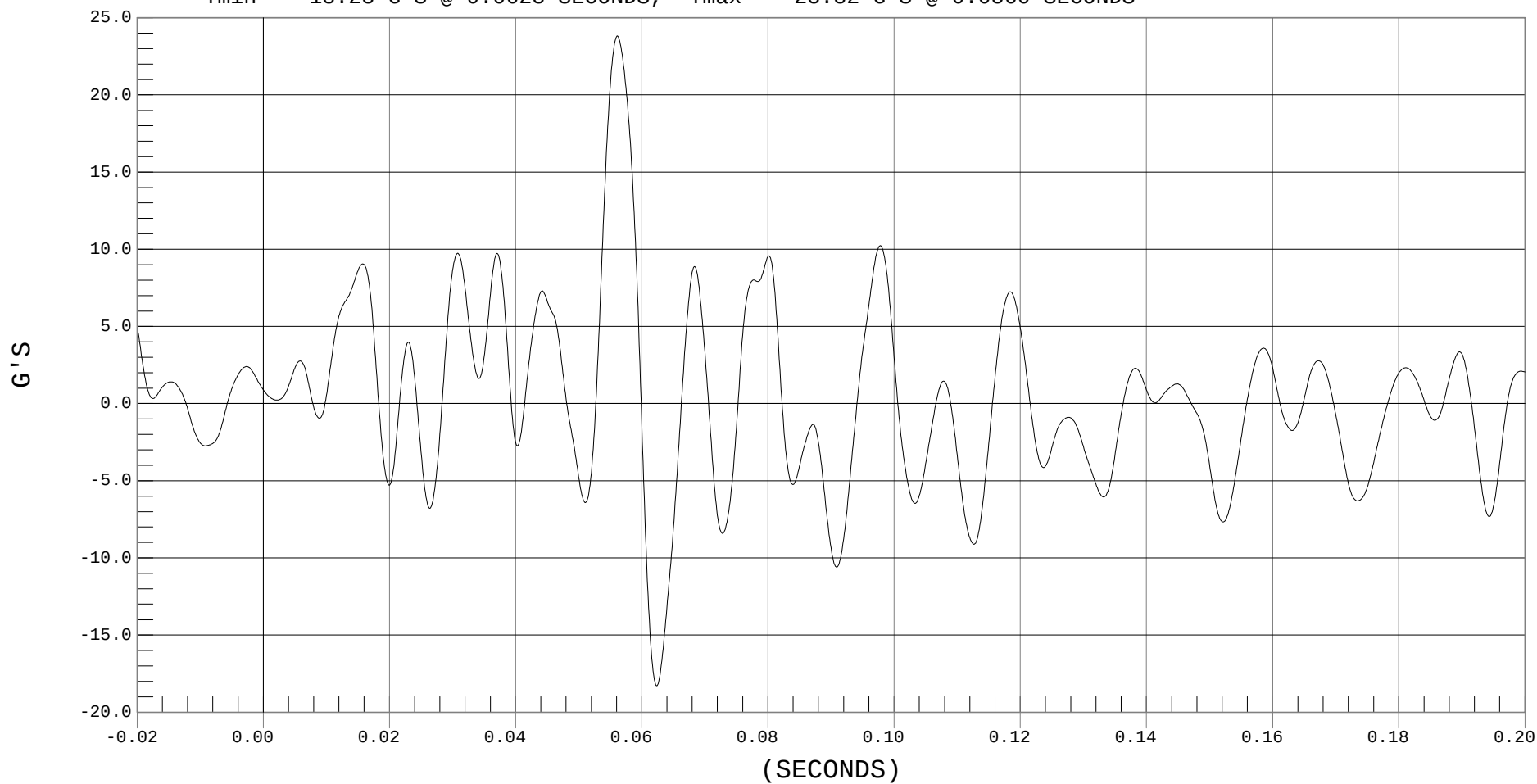
MOVING BARRIER CG Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART CG Z ACCELERATION, B01102AF.A04

Ymin = -18.28 G'S @ 0.0623 SECONDS, Ymax = 23.82 G'S @ 0.0560 SECONDS





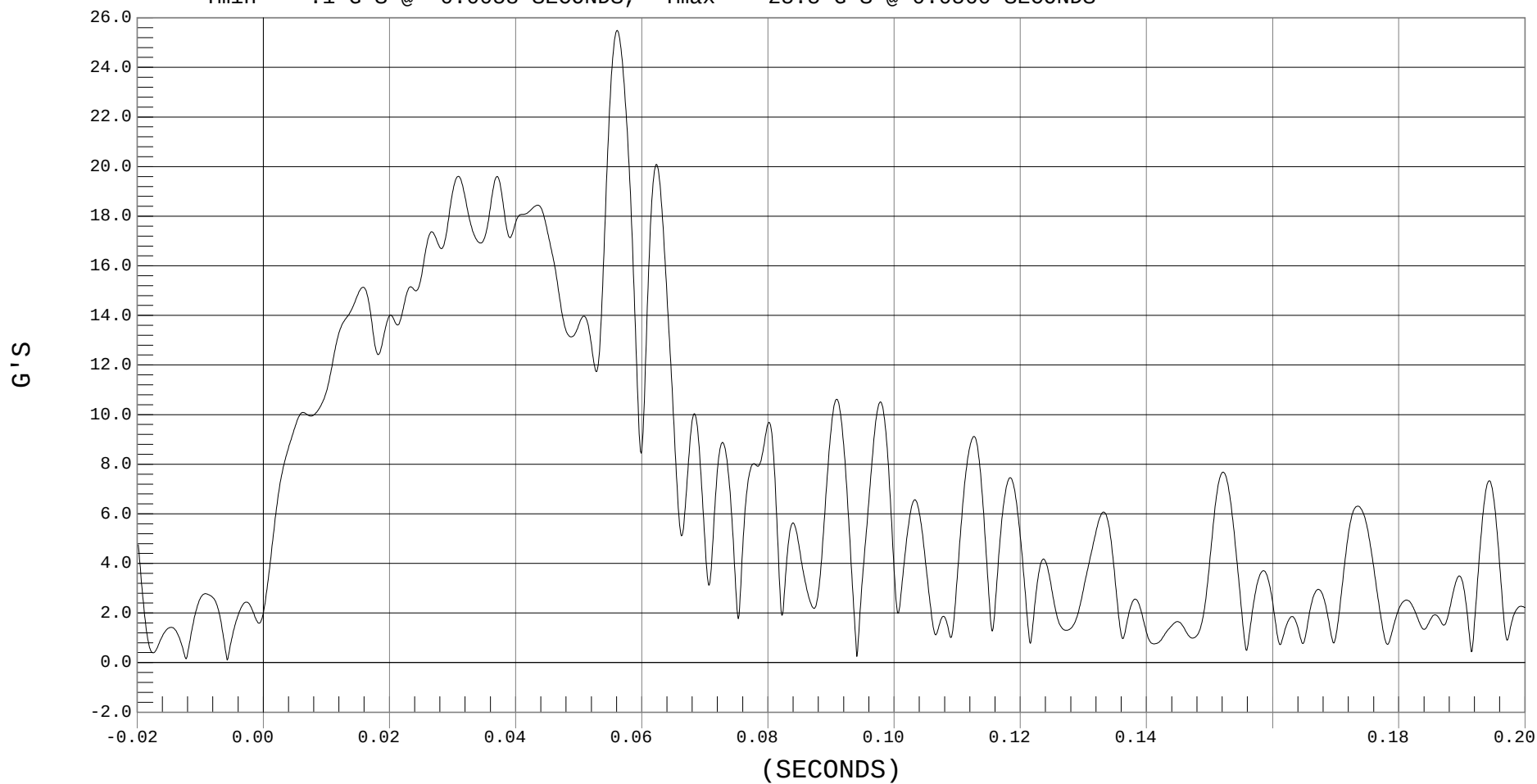
MOVING BARRIER CG RESULTANT ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 MOVING BARRIER CG RESULTANT ACCELERATION, B01102AV.A03

Ymin = .1 G'S @ -0.0058 SECONDS, Ymax = 25.5 G'S @ 0.0560 SECONDS





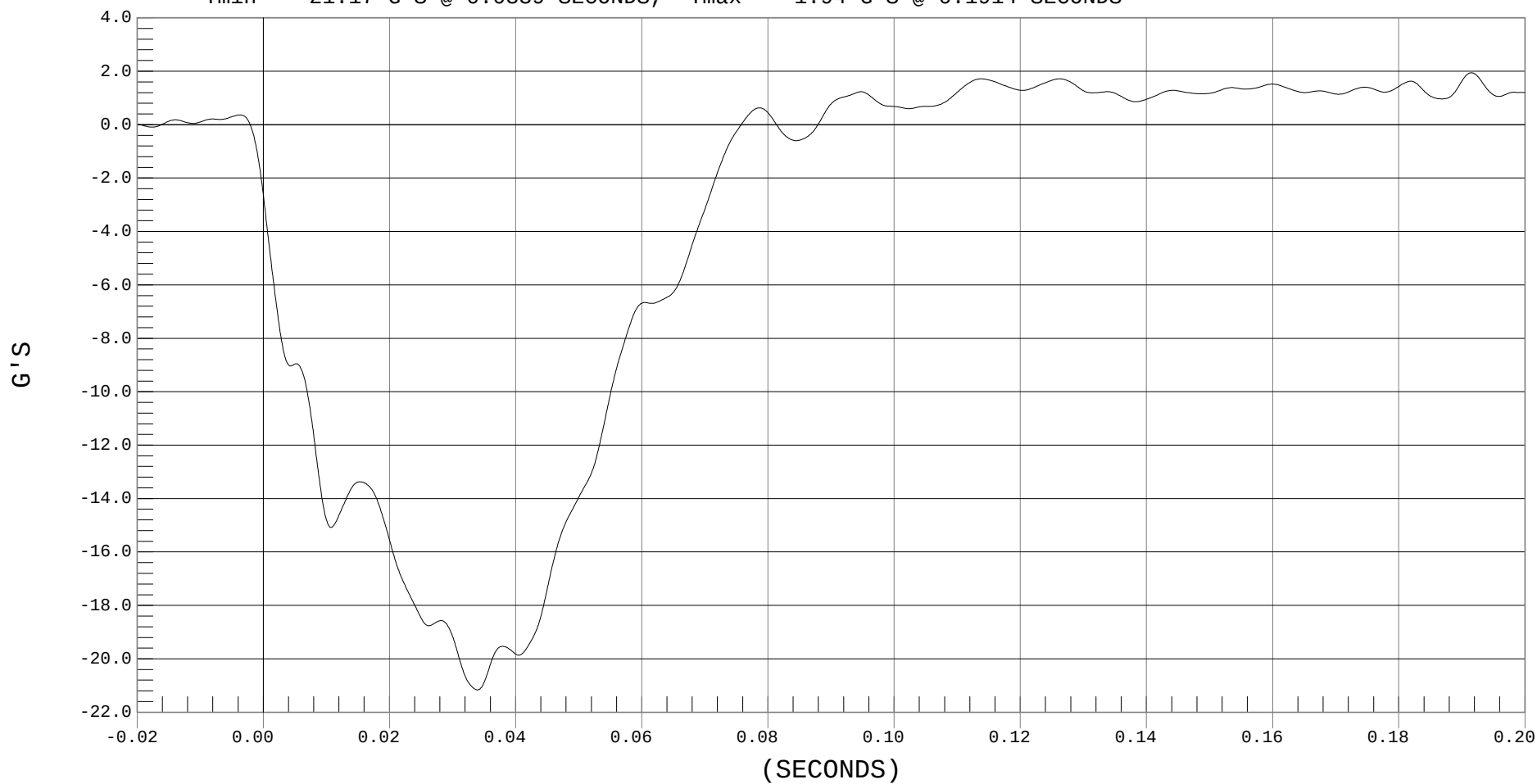
MOVING BARRIER REAR AXLE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART REAR AXLE X ACCELERATION, B01102AF.A05

Ymin = -21.17 G'S @ 0.0339 SECONDS, Ymax = 1.94 G'S @ 0.1914 SECONDS





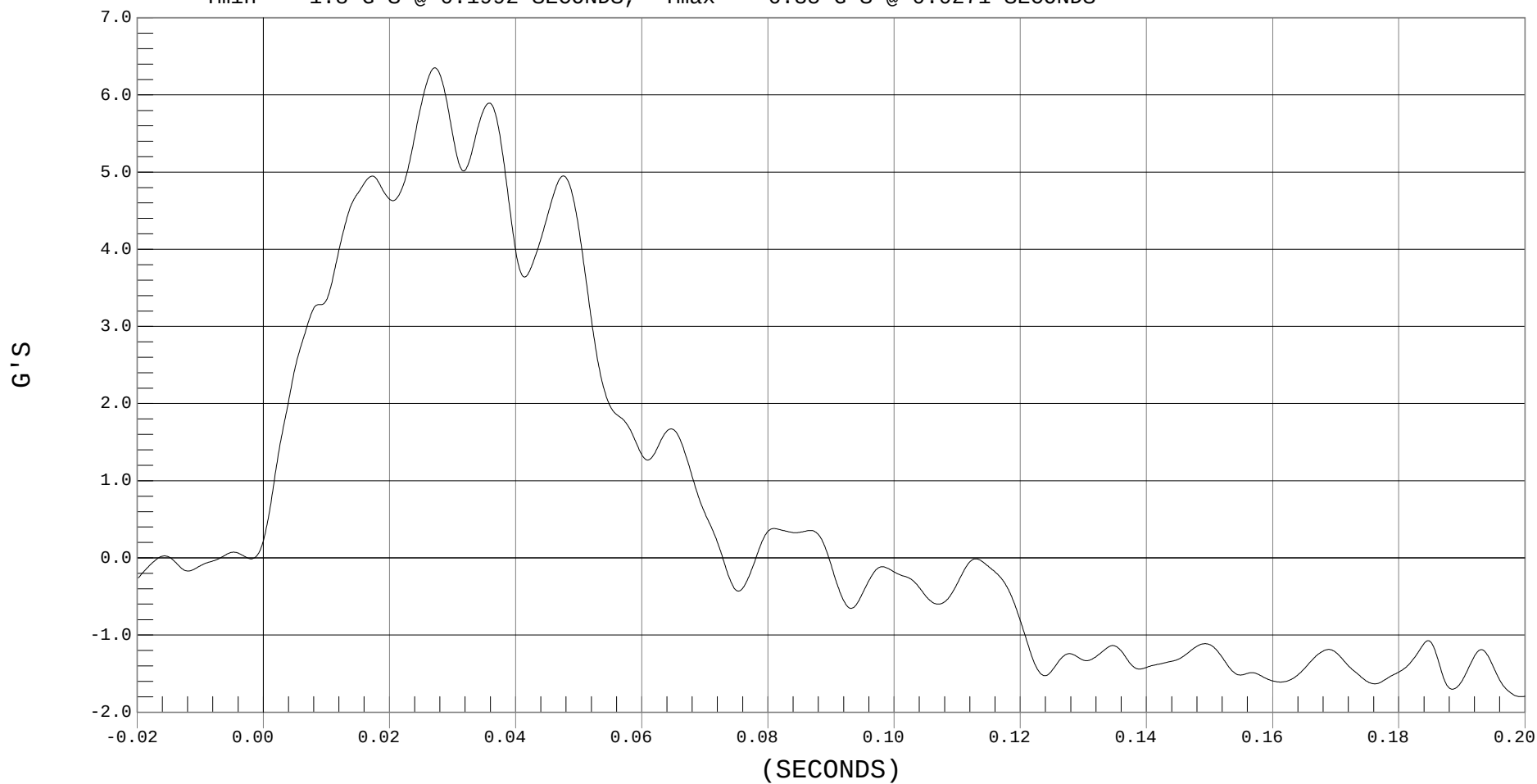
MOVING BARRIER REAR AXLE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART REAR AXLE Y ACCELERATION, B01102AF.A06

Ymin = -1.8 G'S @ 0.1992 SECONDS, Ymax = 6.35 G'S @ 0.0271 SECONDS





LEFT BARRIER CONTACT

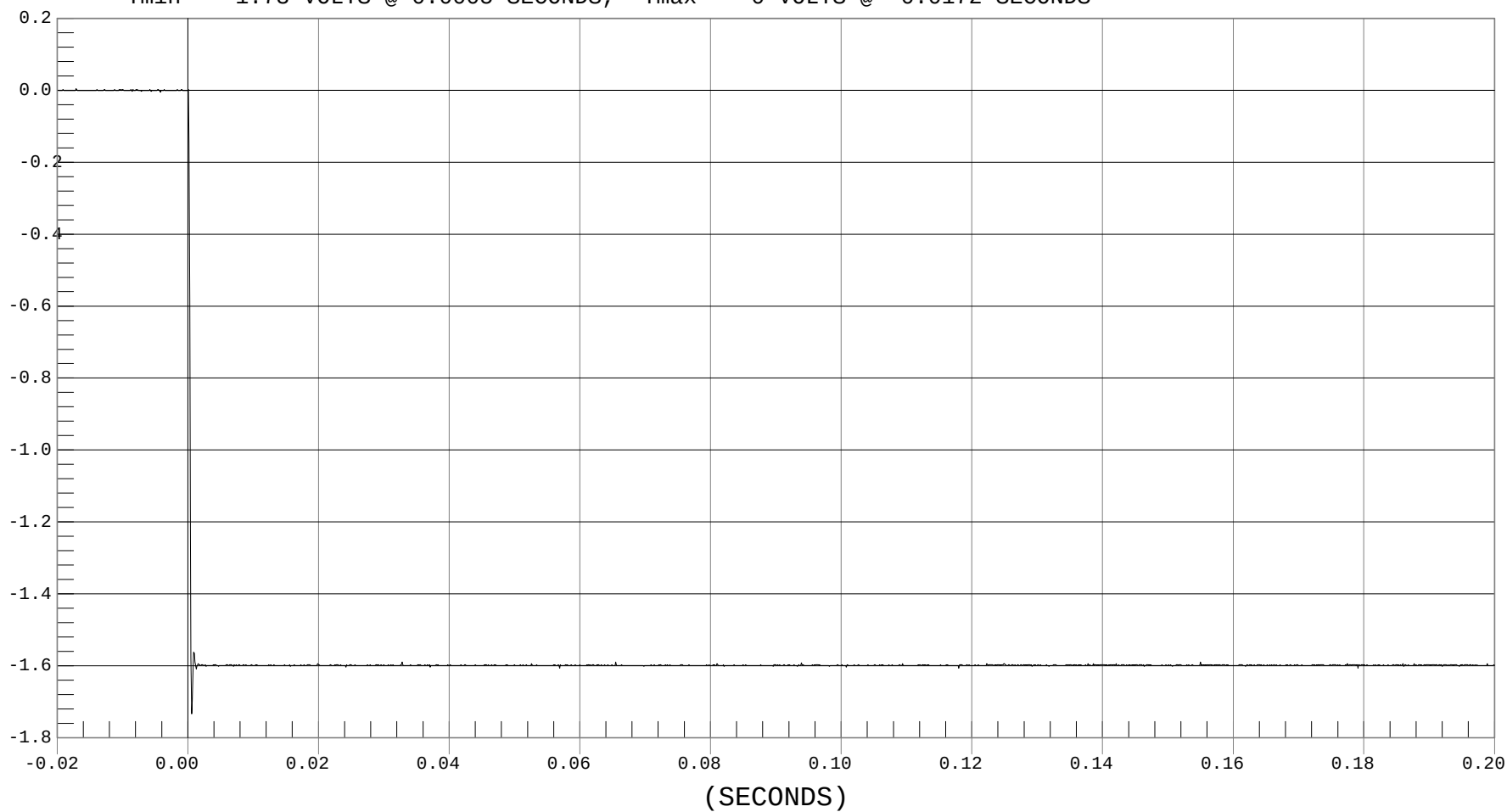
Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 LEFT CONTACT, B011020T.010

Ymin = -1.73 VOLTS @ 0.0005 SECONDS, Ymax = 0 VOLTS @ -0.0172 SECONDS

VOLTS





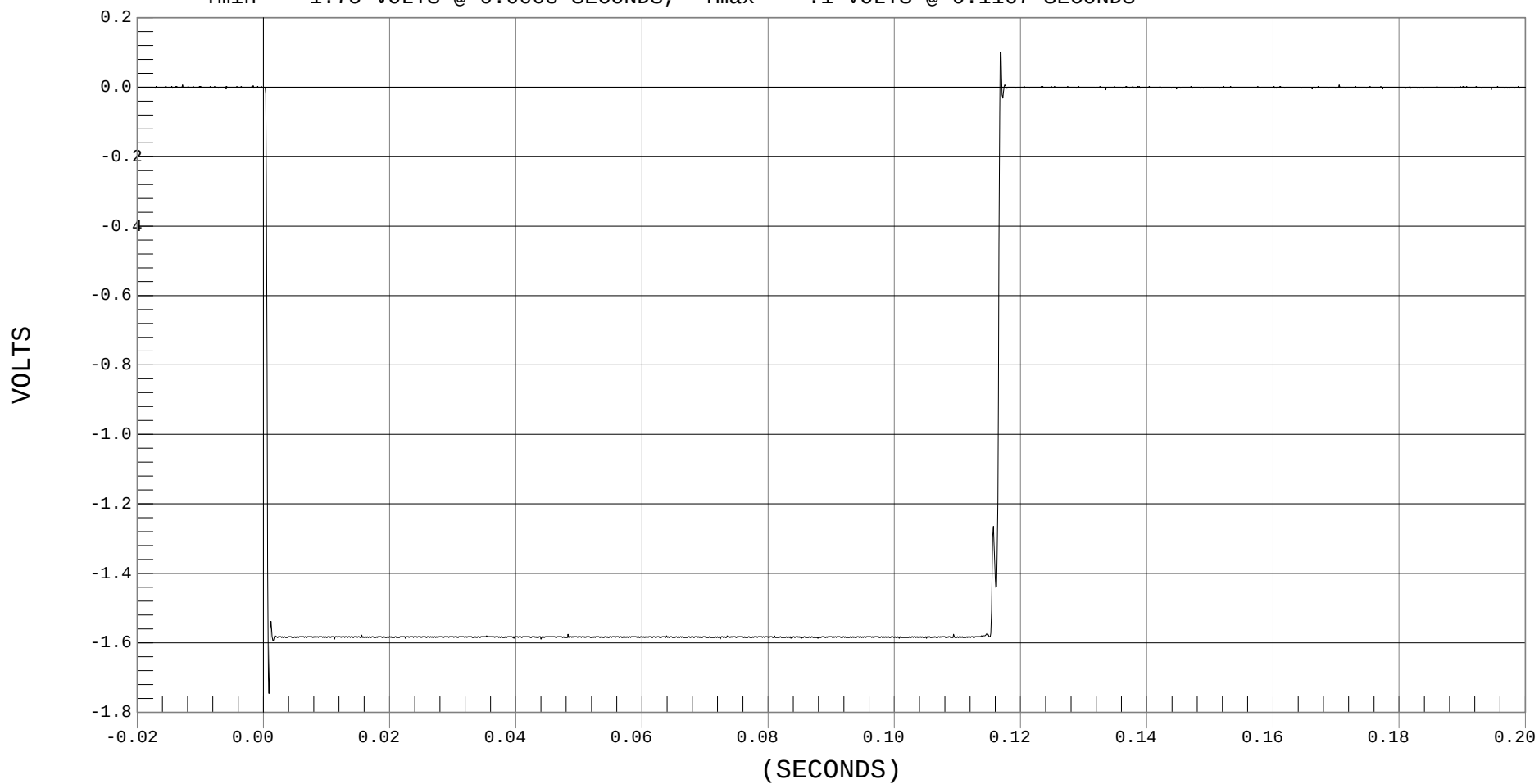
RIGHT BARRIER CONTACT

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 RIGHT CONTACT, B011020T.009

Ymin = -1.75 VOLTS @ 0.0008 SECONDS, Ymax = .1 VOLTS @ 0.1167 SECONDS





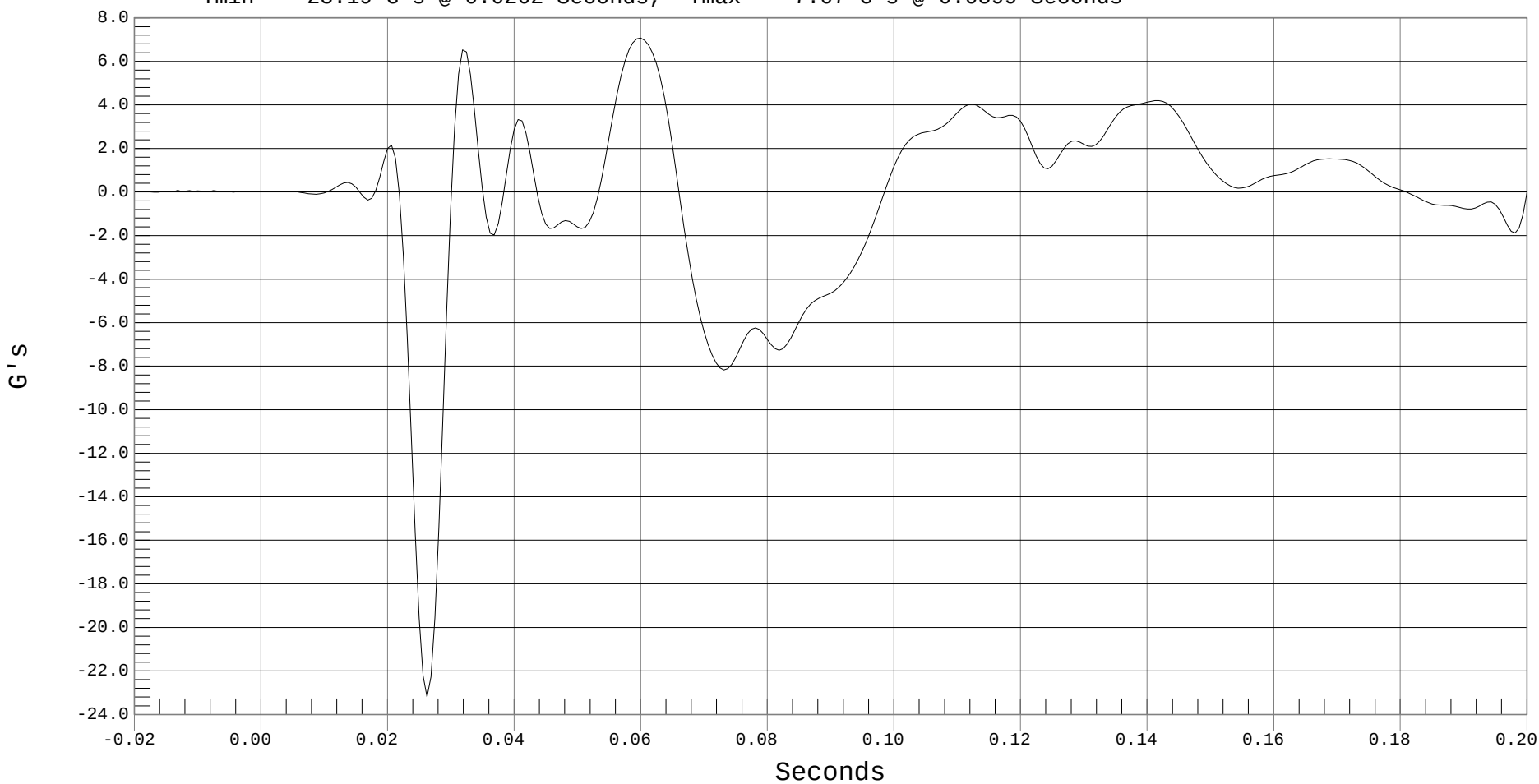
DRIVER UPPER SPINE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER UPPER SPINE X, B01102FI.R20

Ymin = -23.19 G's @ 0.0262 Seconds, Ymax = 7.07 G's @ 0.0599 Seconds





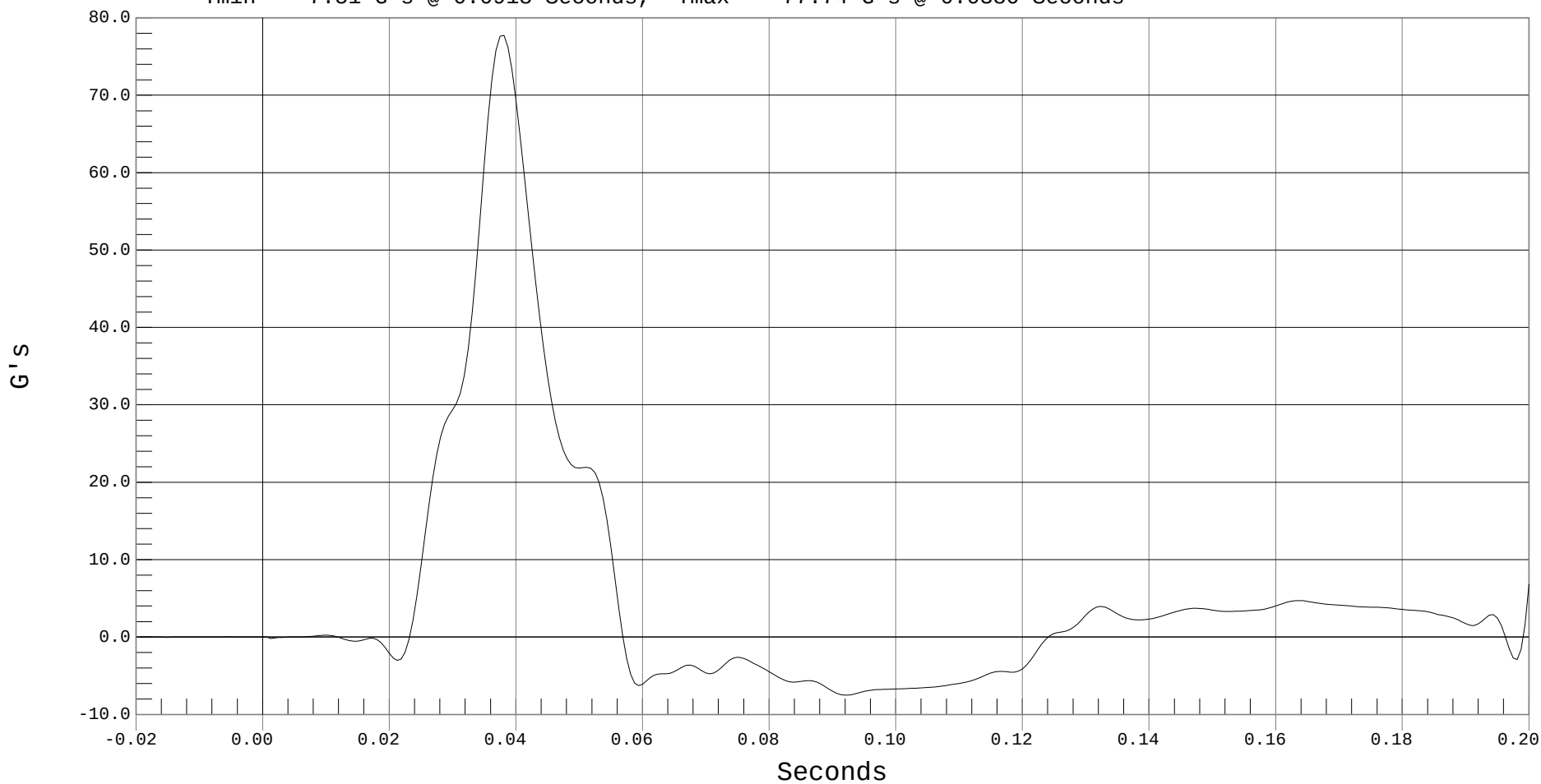
DRIVER UPPER SPINE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER UPPER SPINE Y, B01102FI.R21

Ymin = -7.51 G's @ 0.0918 Seconds, Ymax = 77.74 G's @ 0.0380 Seconds





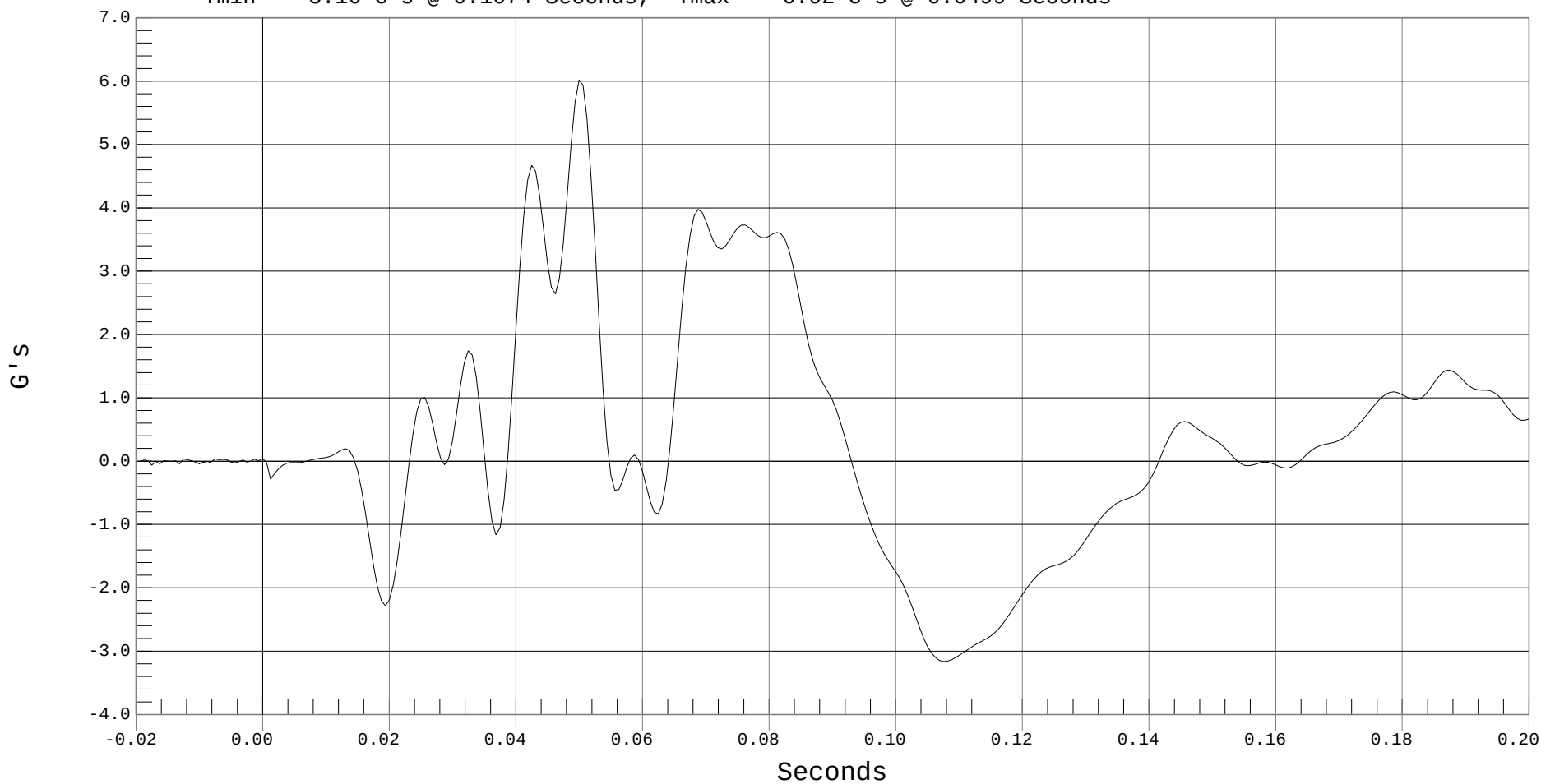
DRIVER UPPER SPINE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER UPPER SPINE Z, B01102FI.R22

Ymin = -3.16 G's @ 0.1074 Seconds, Ymax = 6.02 G's @ 0.0499 Seconds





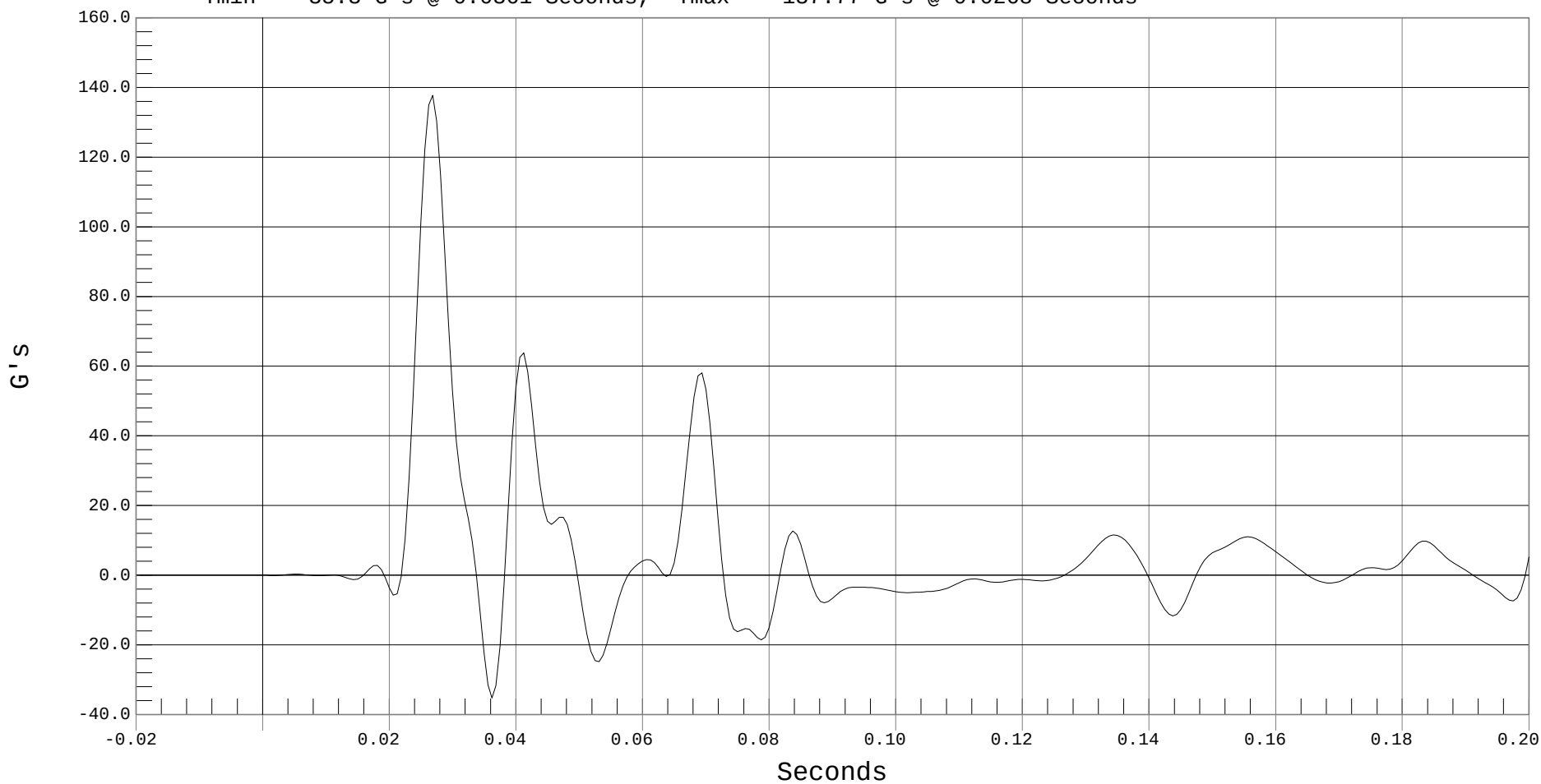
DRIVER UPPER RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER UPPER RIB Y, B01102FI.R23

Ymin = -35.3 G's @ 0.0361 Seconds, Ymax = 137.77 G's @ 0.0268 Seconds





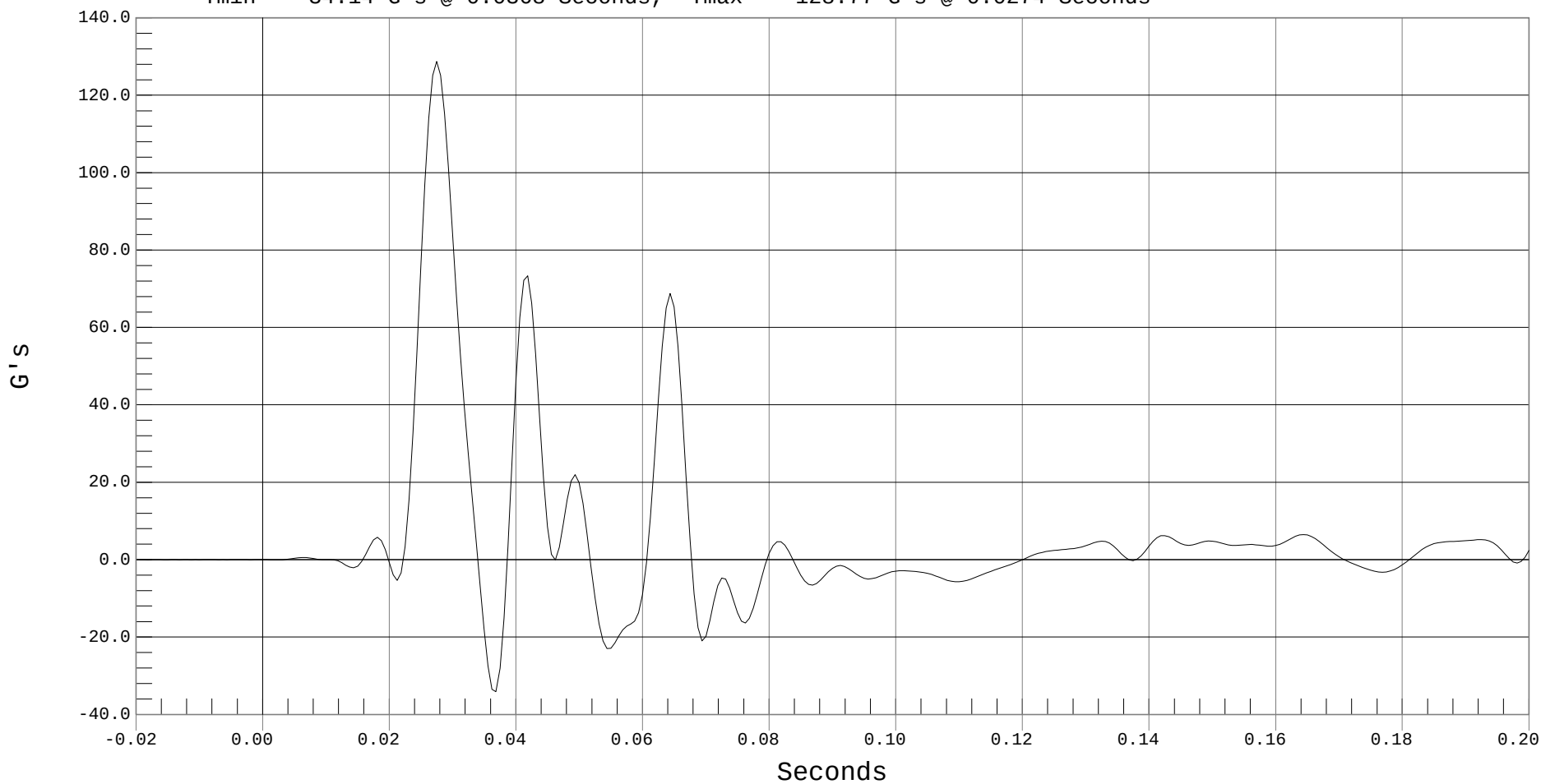
DRIVER MID RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER MID RIB Y, B01102FI.R24

Ymin = -34.14 G's @ 0.0368 Seconds, Ymax = 128.77 G's @ 0.0274 Seconds





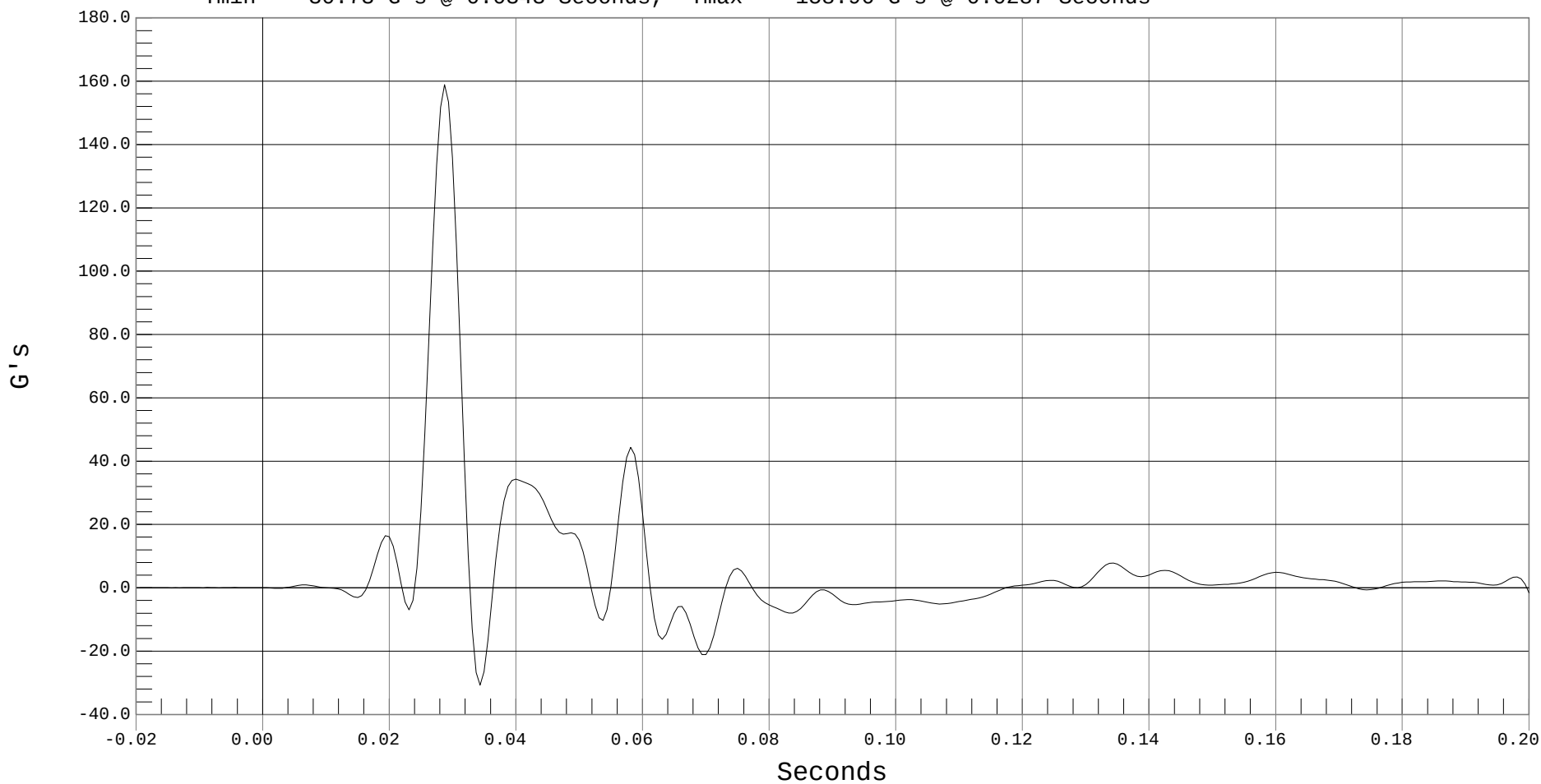
DRIVER LOWER RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER LOWER RIB Y, B01102FI.R25

Ymin = -30.73 G's @ 0.0343 Seconds, Ymax = 158.96 G's @ 0.0287 Seconds





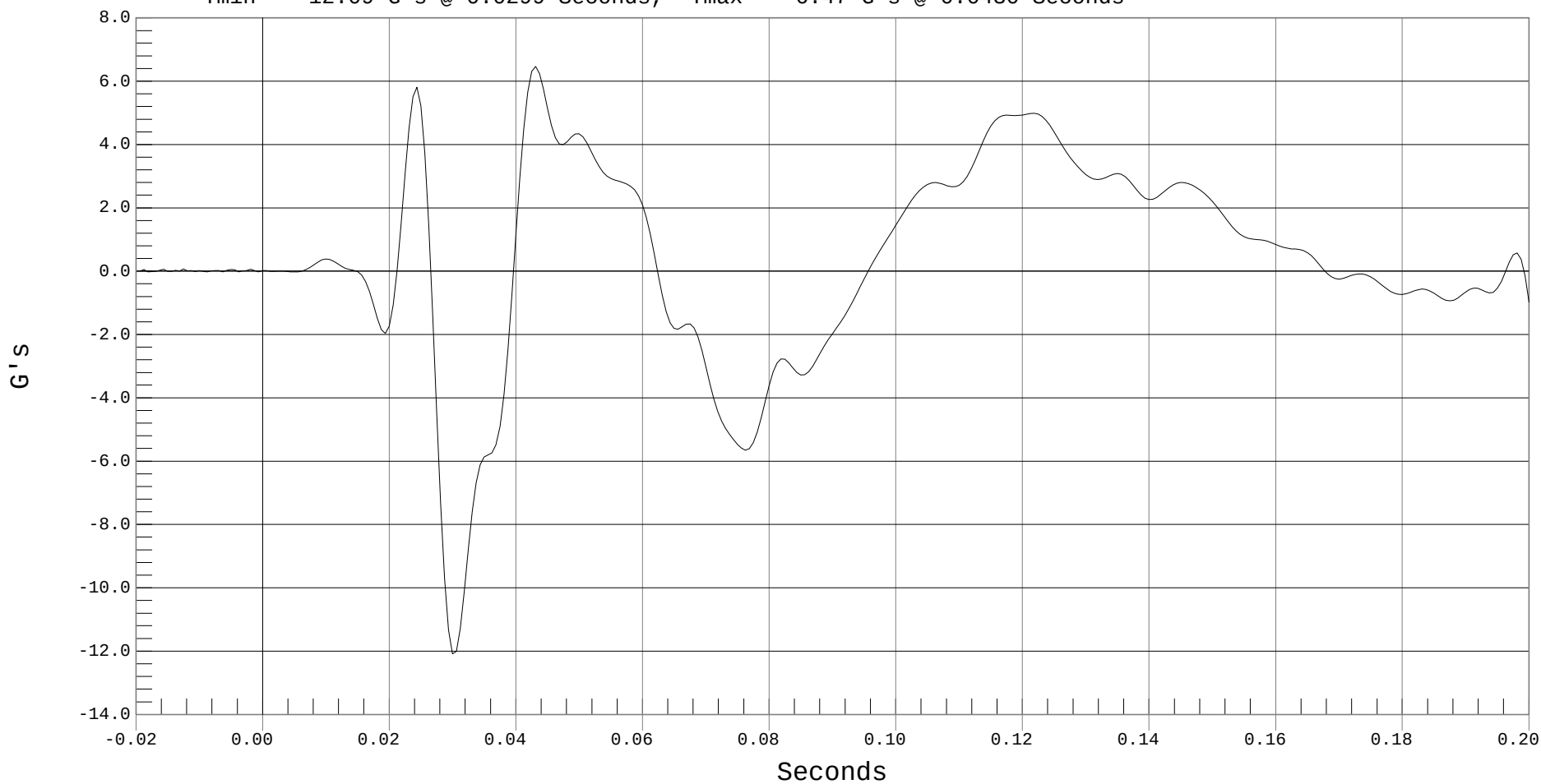
DRIVER LOWER SPINE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

1 DRIVER LOWER SPINE X, B01102FI.R29

Ymin = -12.09 G's @ 0.0299 Seconds, Ymax = 6.47 G's @ 0.0430 Seconds





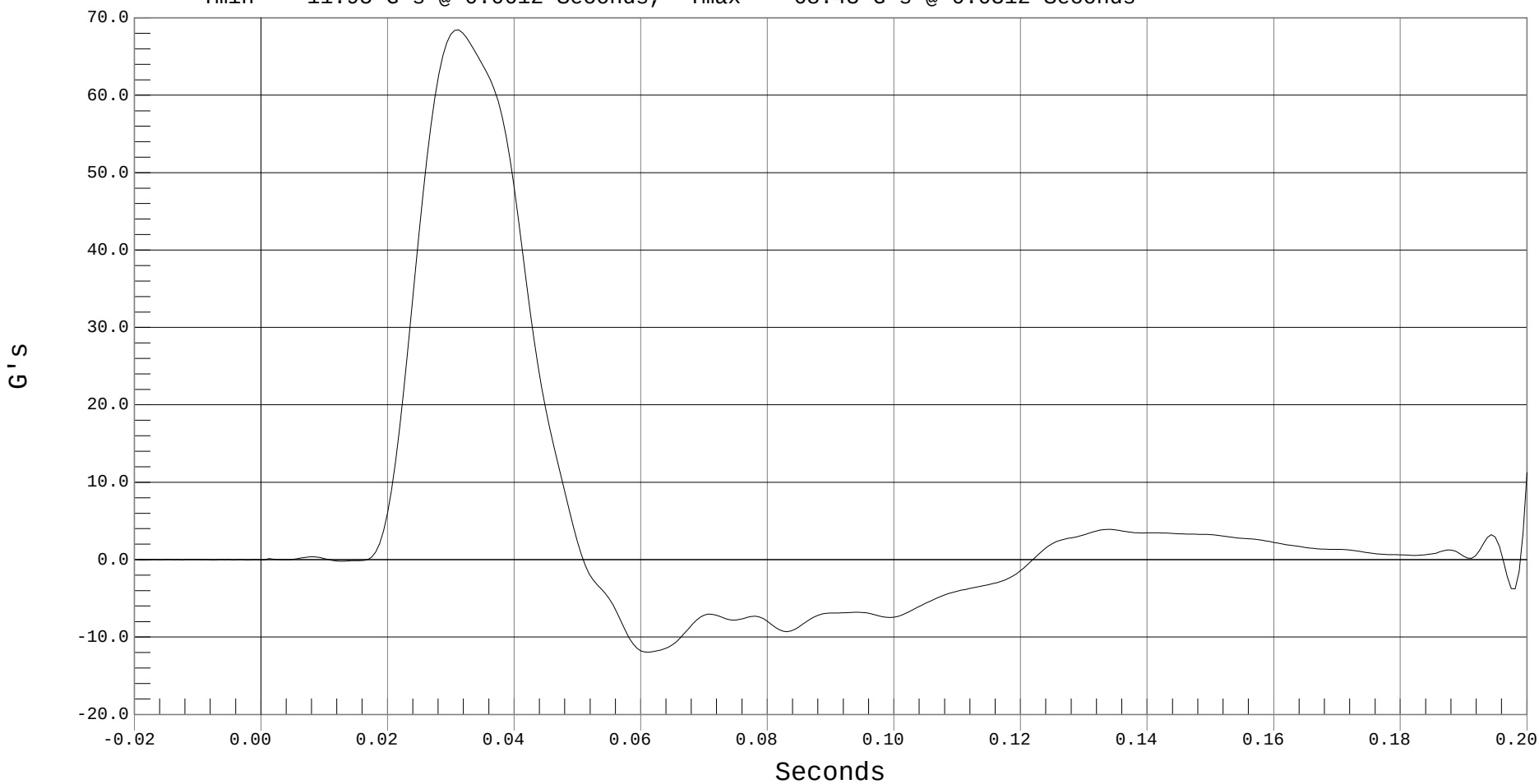
DRIVER LOWER SPINE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER LOWER SPINE Y, B01102FI.R30

Ymin = -11.95 G's @ 0.0612 Seconds, Ymax = 68.43 G's @ 0.0312 Seconds





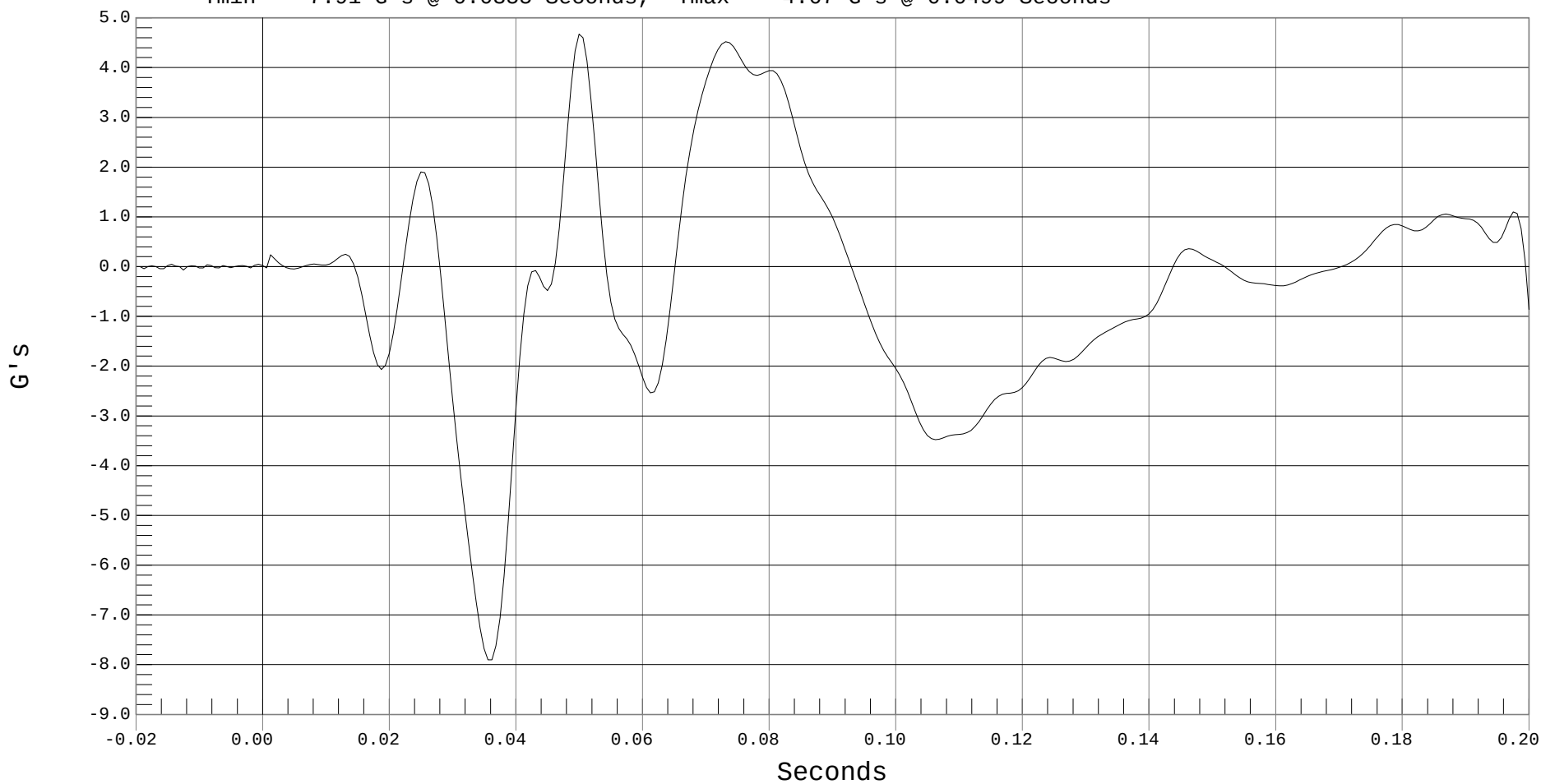
DRIVER LOWER SPINE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER LOWER SPINE Z, B01102FI.R31

Ymin = -7.91 G's @ 0.0355 Seconds, Ymax = 4.67 G's @ 0.0499 Seconds





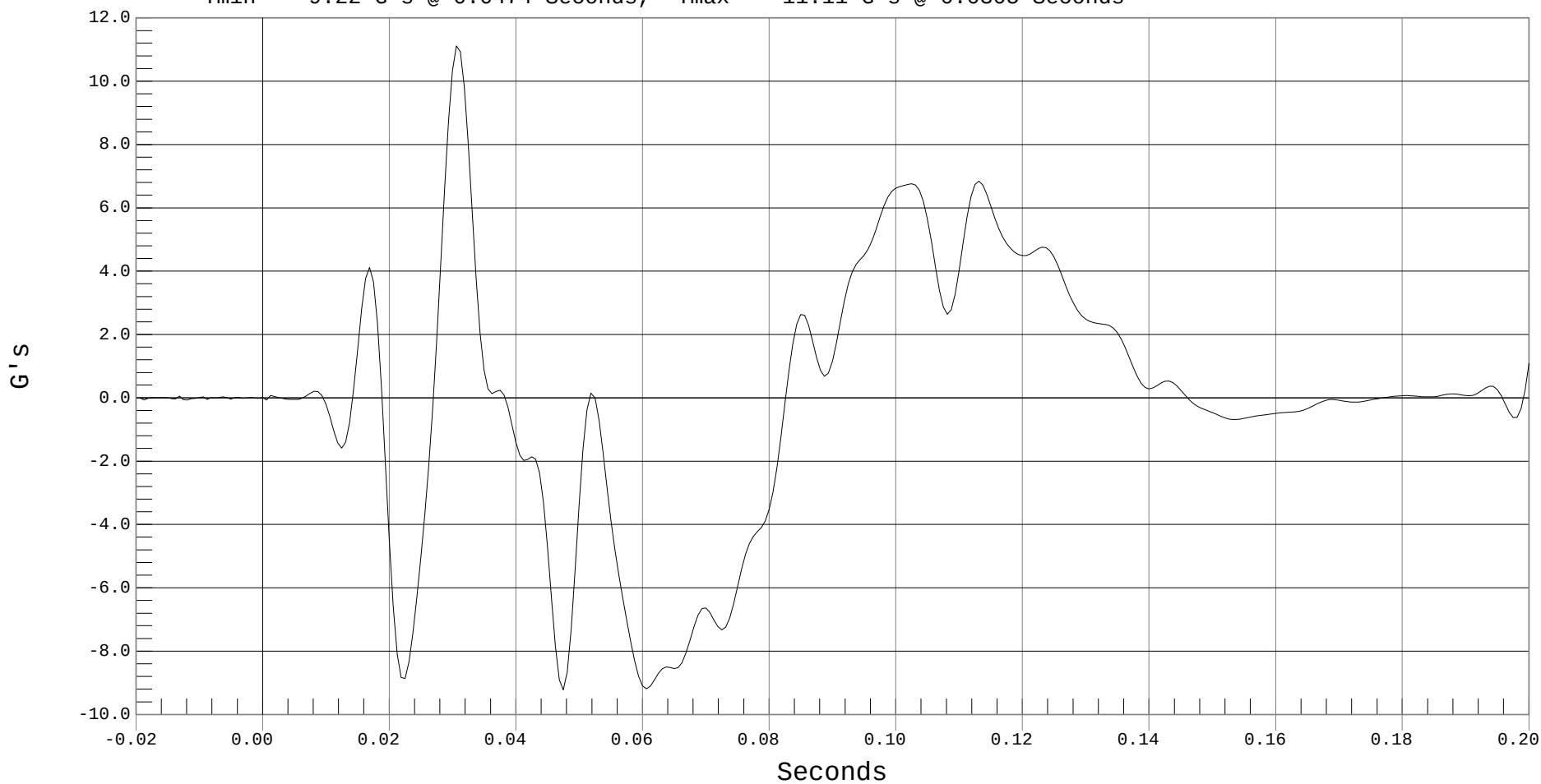
DRIVER PELVIS X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER PELVIS X, B01102FI.R45

Ymin = -9.22 G's @ 0.0474 Seconds, Ymax = 11.11 G's @ 0.0305 Seconds





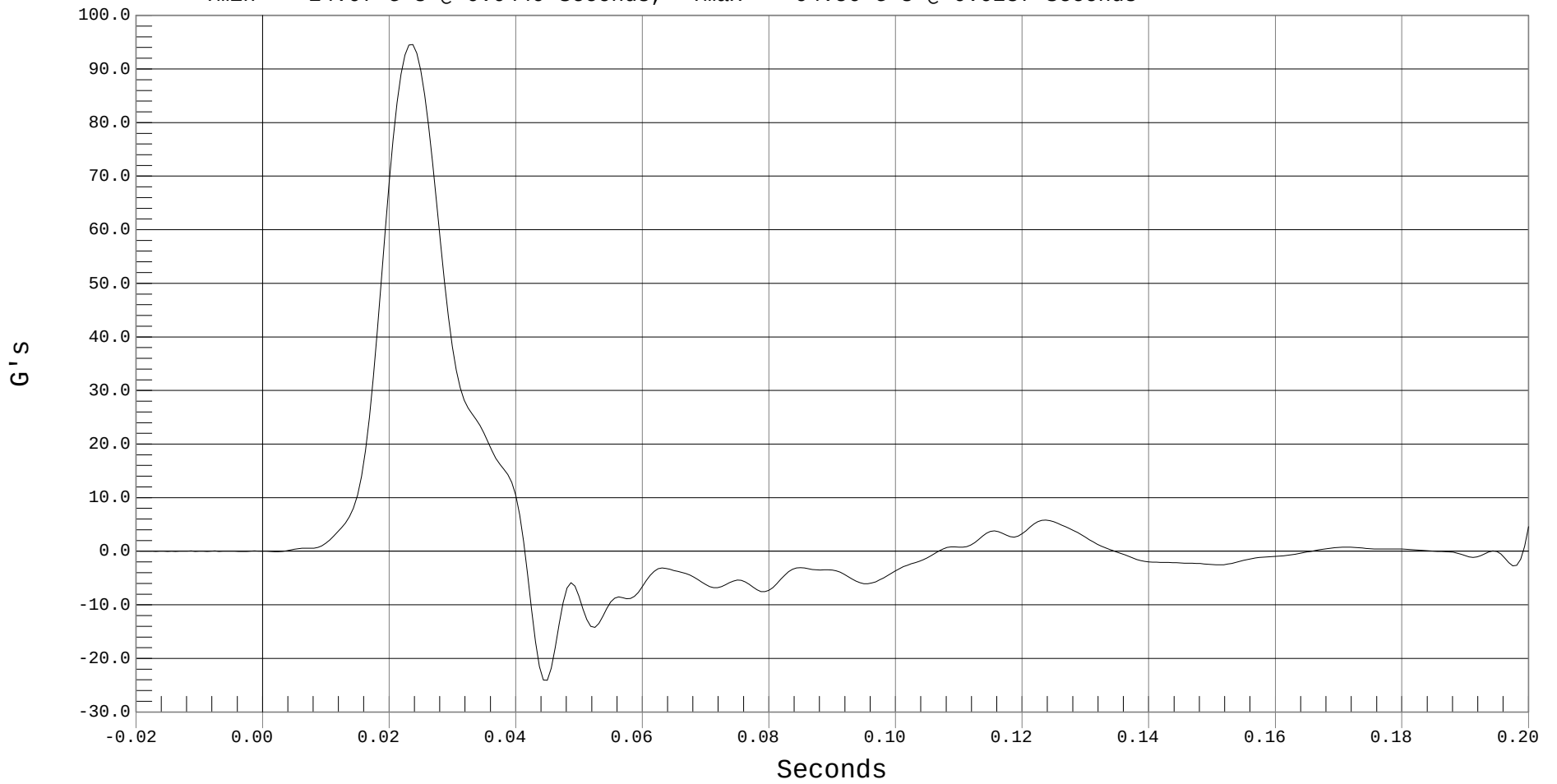
DRIVER PELVIS Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 D00R
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER PELVIS Y, B01102FI.R46

Ymin = -24.07 G's @ 0.0449 Seconds, Ymax = 94.56 G's @ 0.0237 Seconds





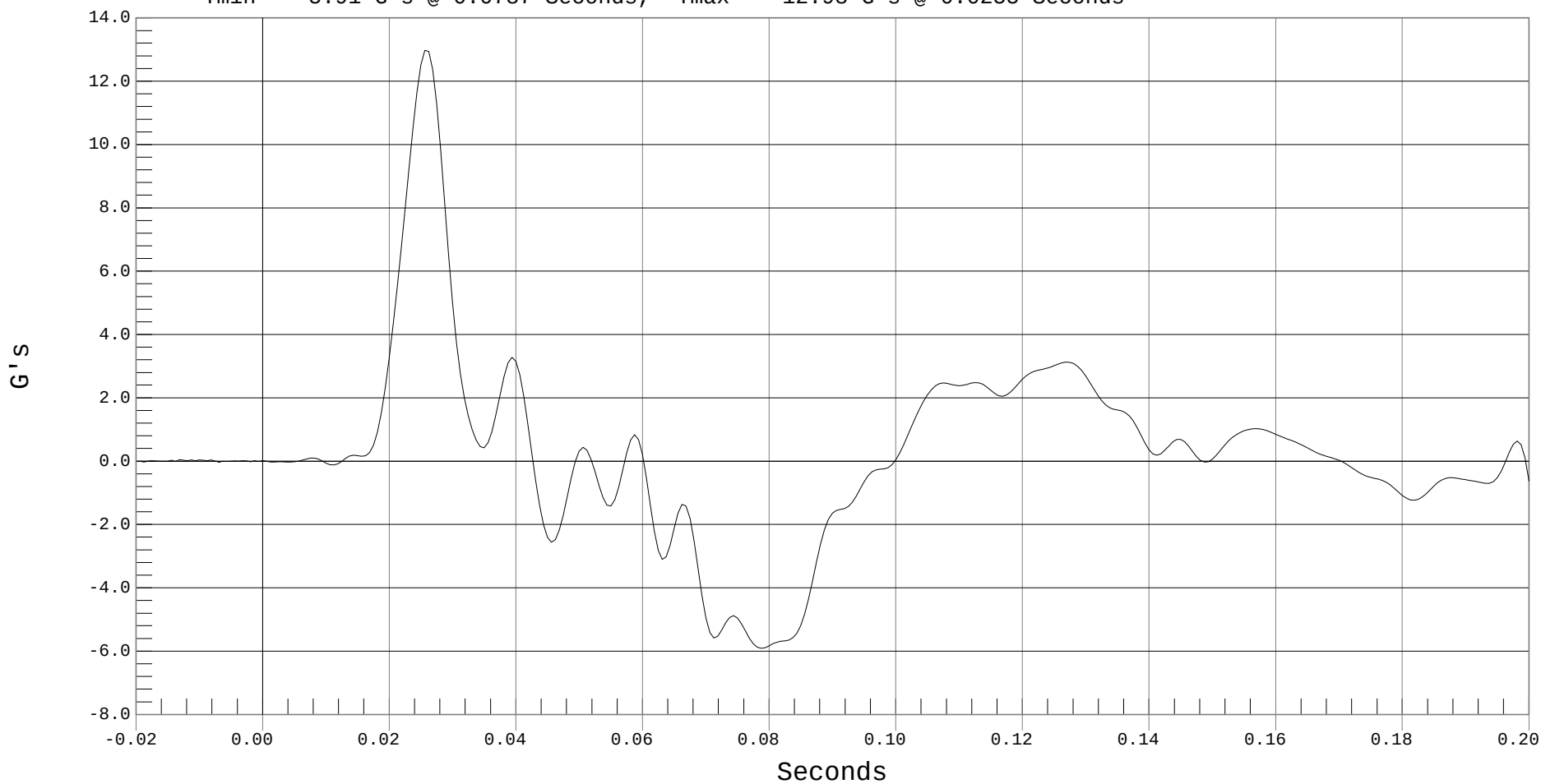
DRIVER PELVIS Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

1 DRIVER PELVIS Z, B01102FI.R47

Ymin = -5.91 G's @ 0.0787 Seconds, Ymax = 12.98 G's @ 0.0255 Seconds





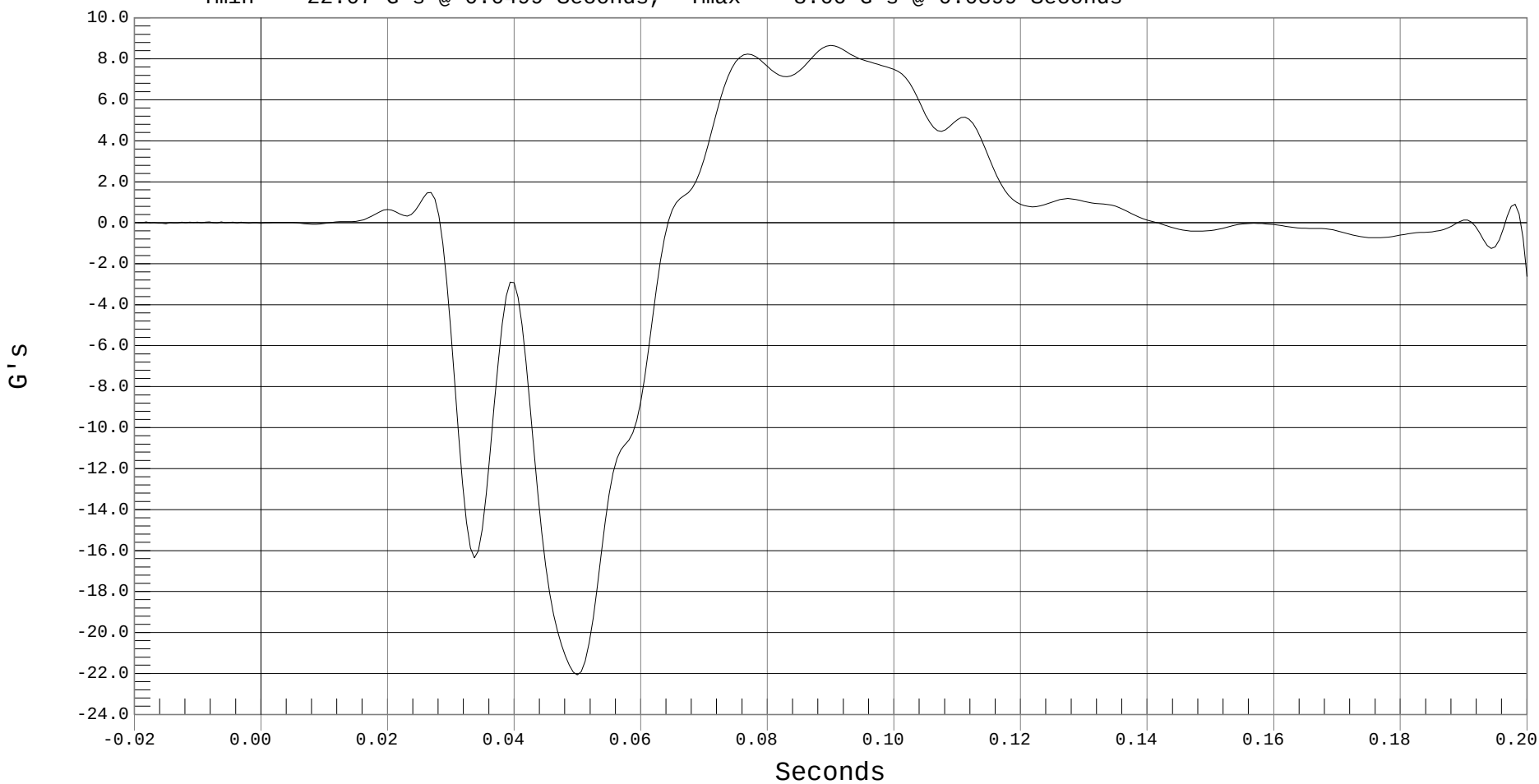
PASSENGER UPPER SPINE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER UPPER SPINE X, B01102FI.R80

Ymin = -22.07 G's @ 0.0499 Seconds, Ymax = 8.66 G's @ 0.0899 Seconds





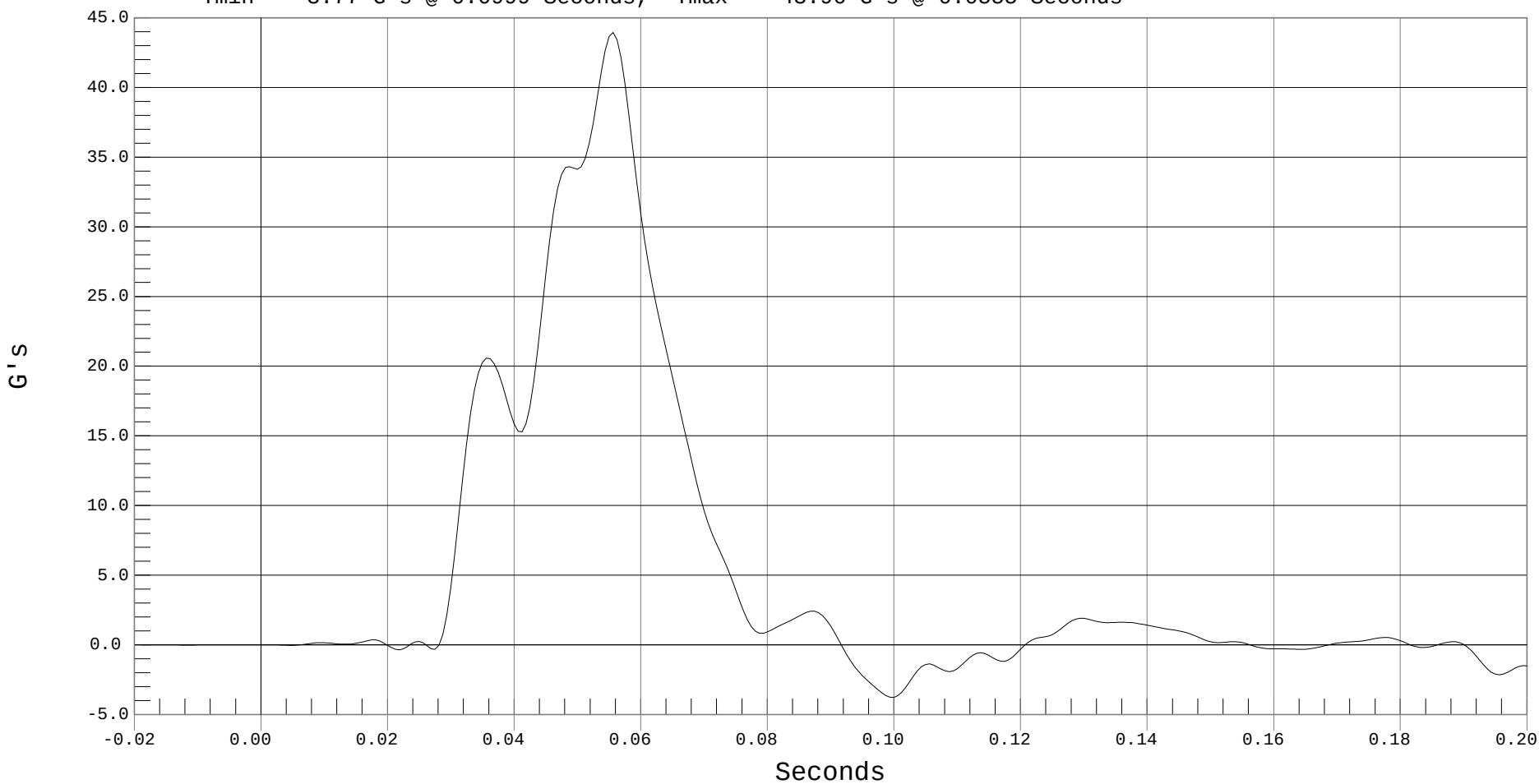
PASSENGER UPPER SPINE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER UPPER SPINE Y, B01102FI.R81

Ymin = -3.77 G's @ 0.0999 Seconds, Ymax = 43.96 G's @ 0.0555 Seconds





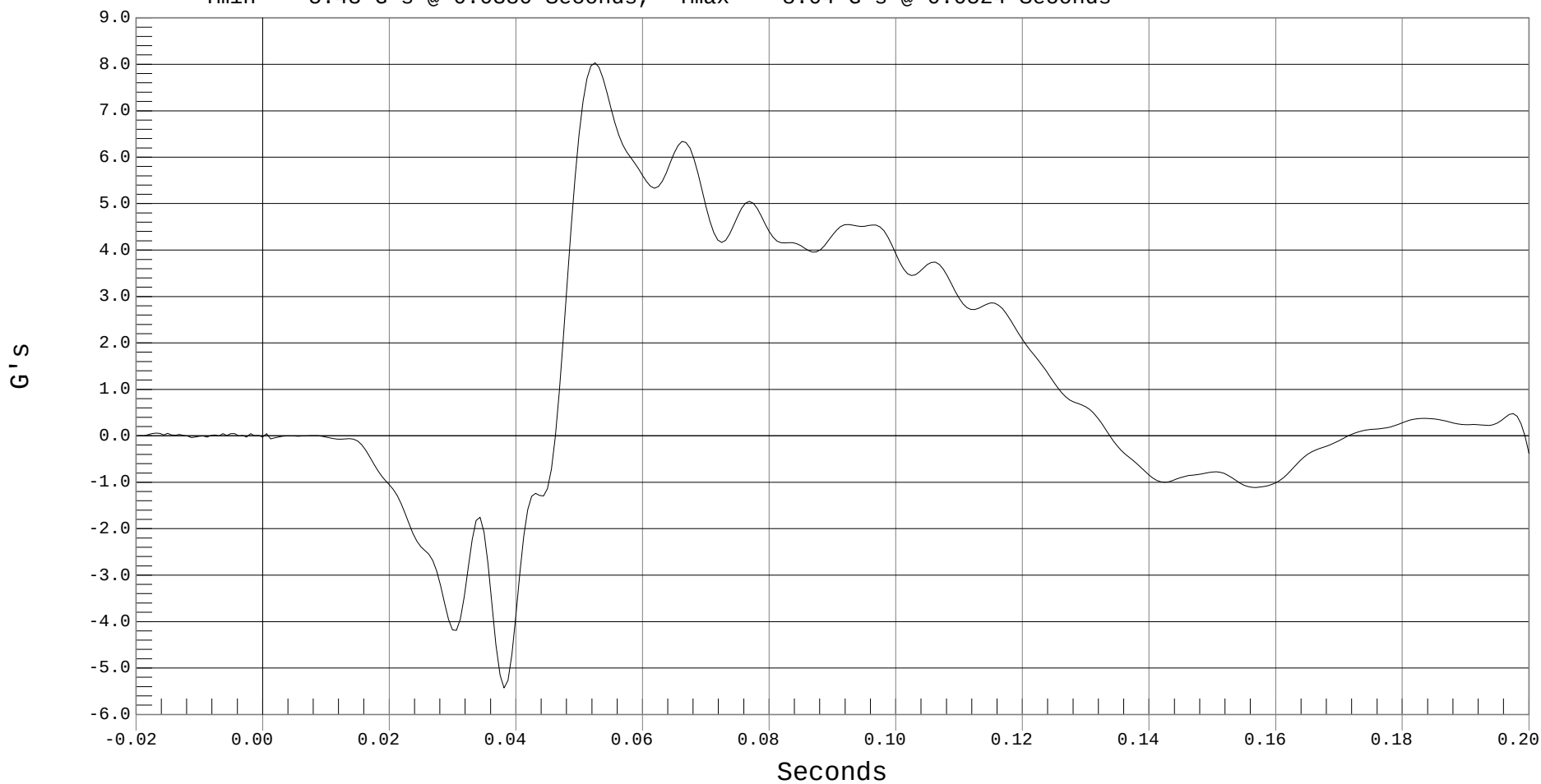
PASSENGER UPPER SPINE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER UPPER SPINE Z, B01102FI.R82

Ymin = -5.43 G's @ 0.0380 Seconds, Ymax = 8.04 G's @ 0.0524 Seconds





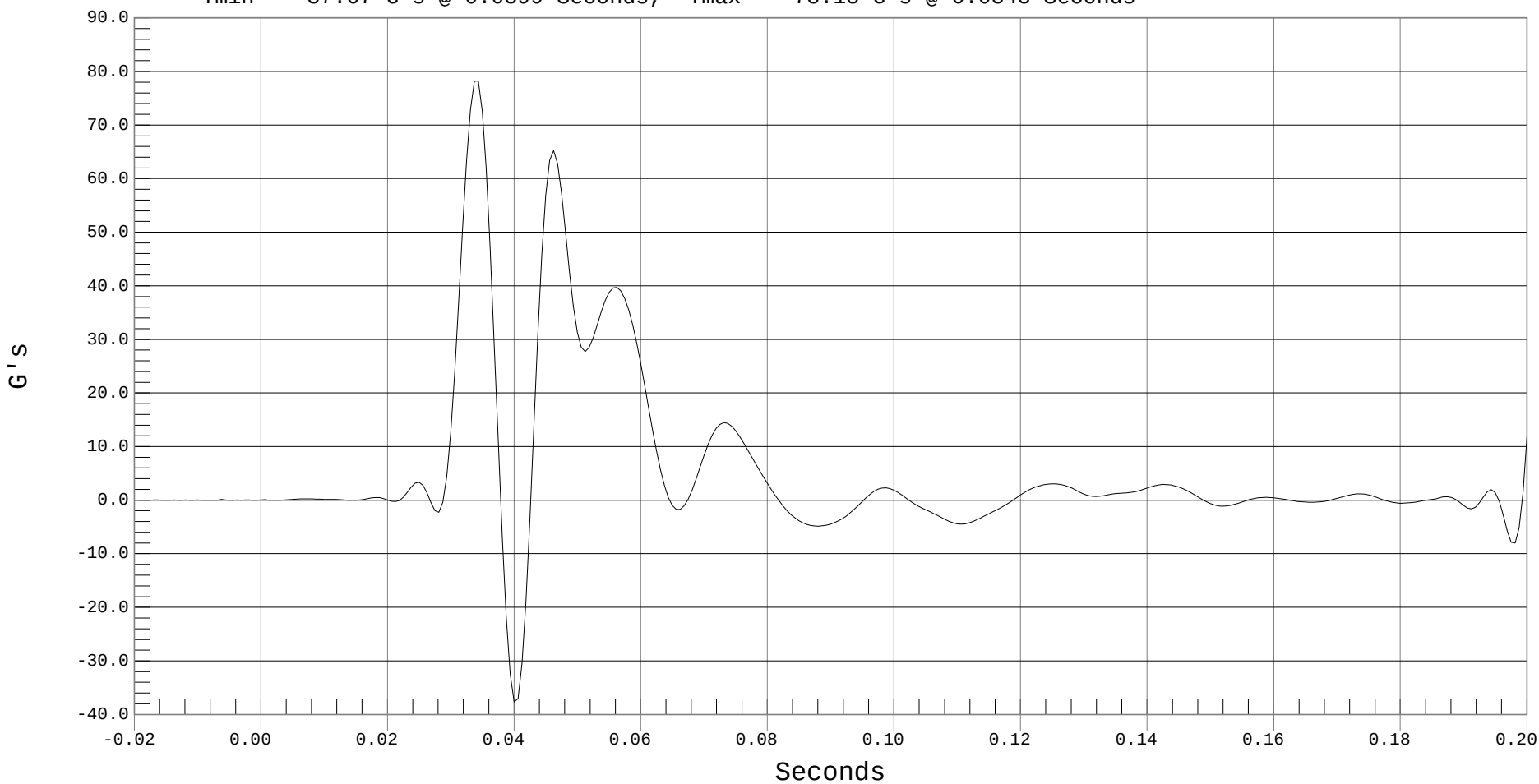
PASSENGER UPPER RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER UPPER RIB Y, B01102FI.R83

Ymin = -37.67 G's @ 0.0399 Seconds, Ymax = 78.18 G's @ 0.0343 Seconds





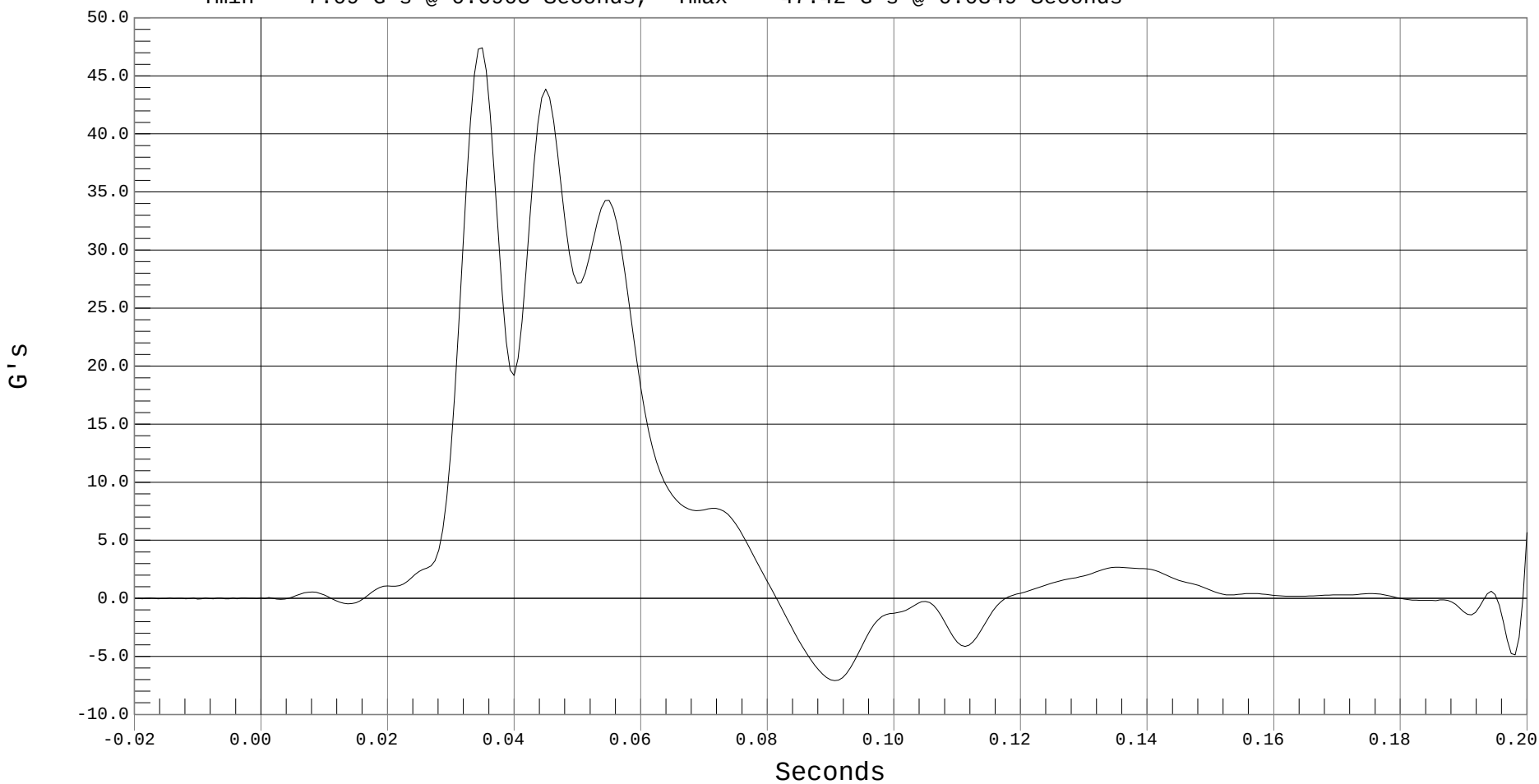
PASSENGER MID RIB Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER MID RIB Y, B01102FI.R84

Ymin = -7.09 G's @ 0.0905 Seconds, Ymax = 47.42 G's @ 0.0349 Seconds





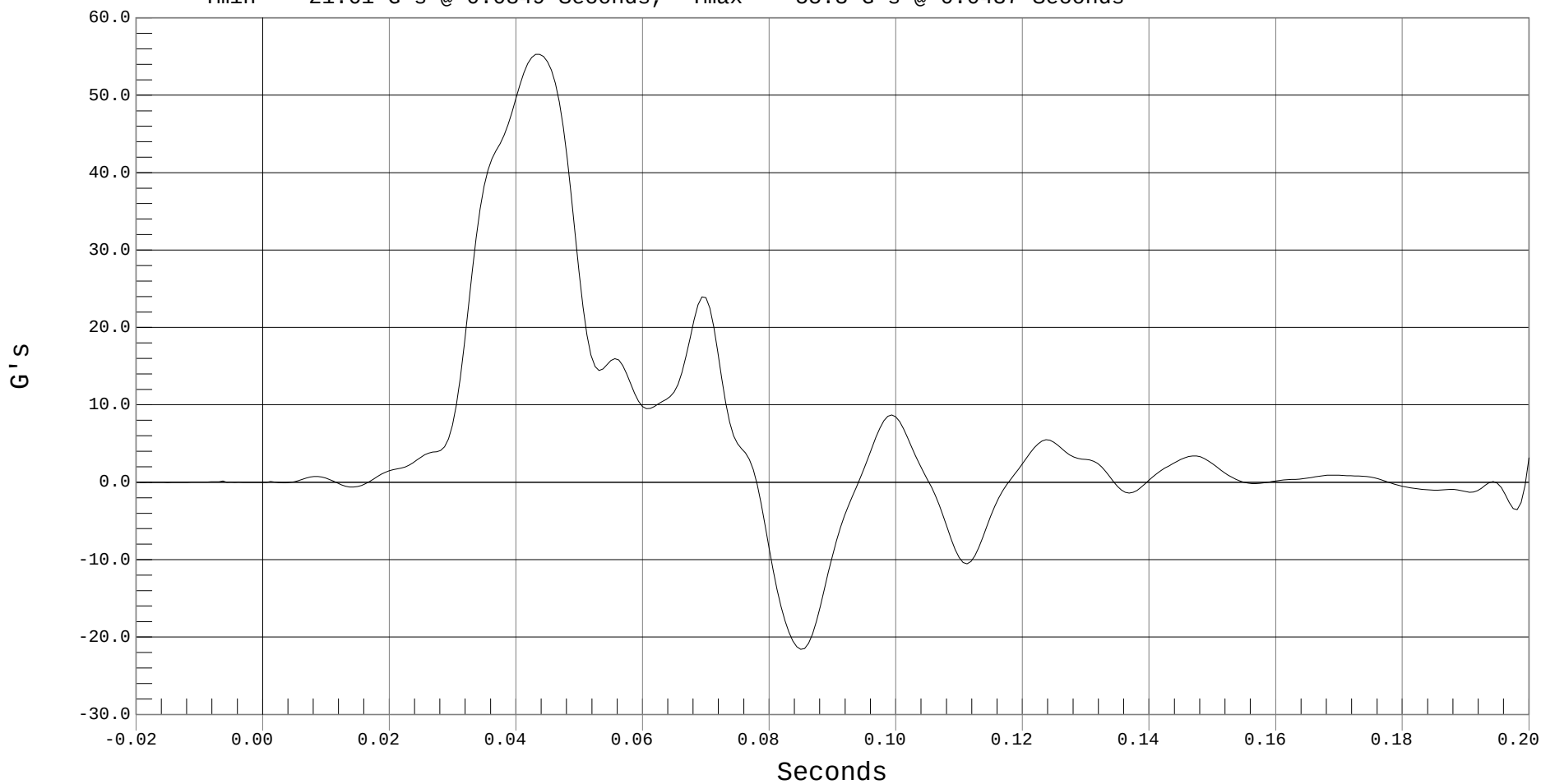
PASSENGER LOWER RIB Y VELOCITY

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER LOWER RIB Y, B01102FI.R85

Ymin = -21.61 G's @ 0.0849 Seconds, Ymax = 55.3 G's @ 0.0437 Seconds





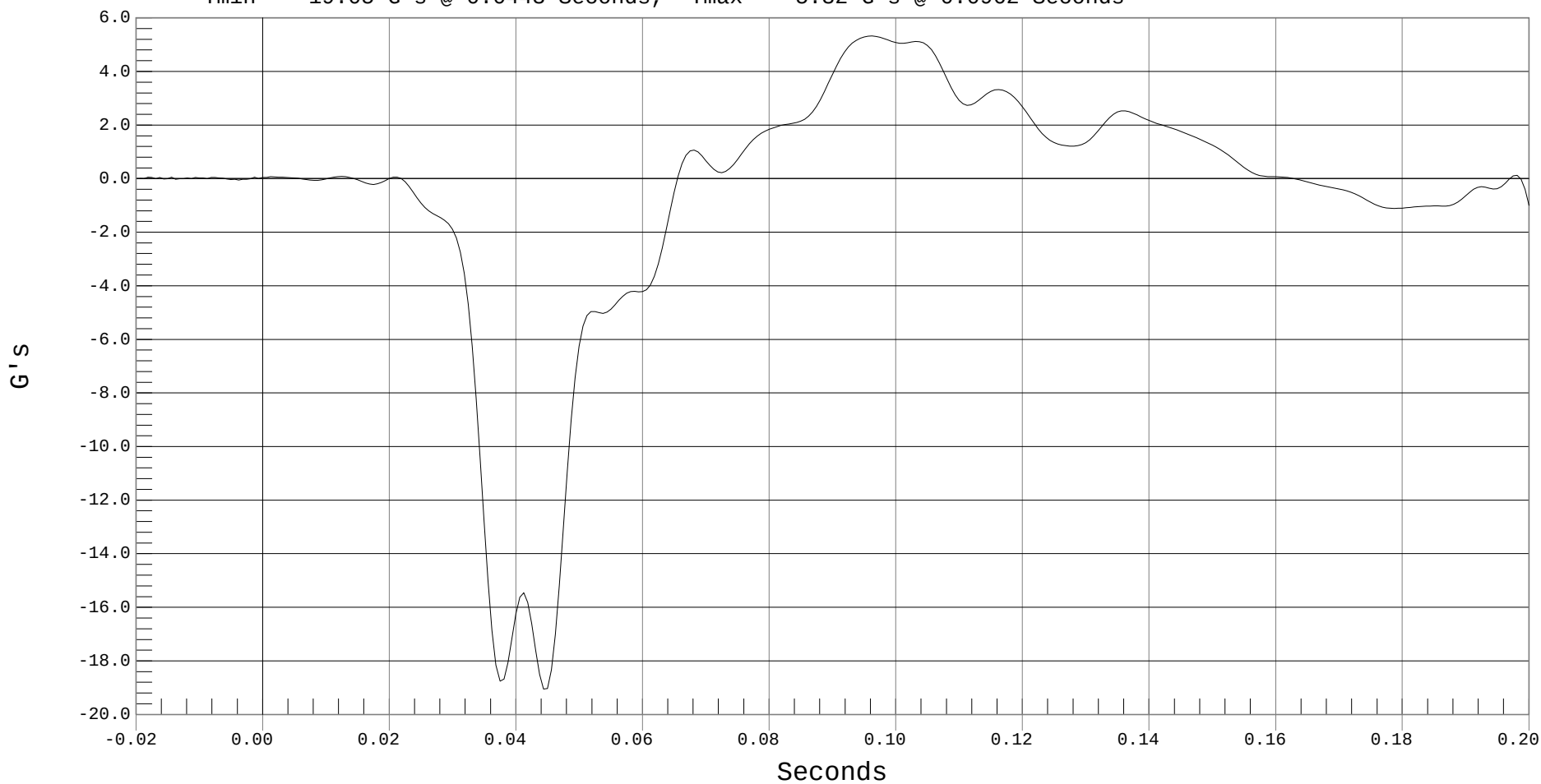
PASSENGER LOWER SPINE X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER LOWER SPINE X, B01102FI.R89

Ymin = -19.05 G's @ 0.0443 Seconds, Ymax = 5.32 G's @ 0.0962 Seconds





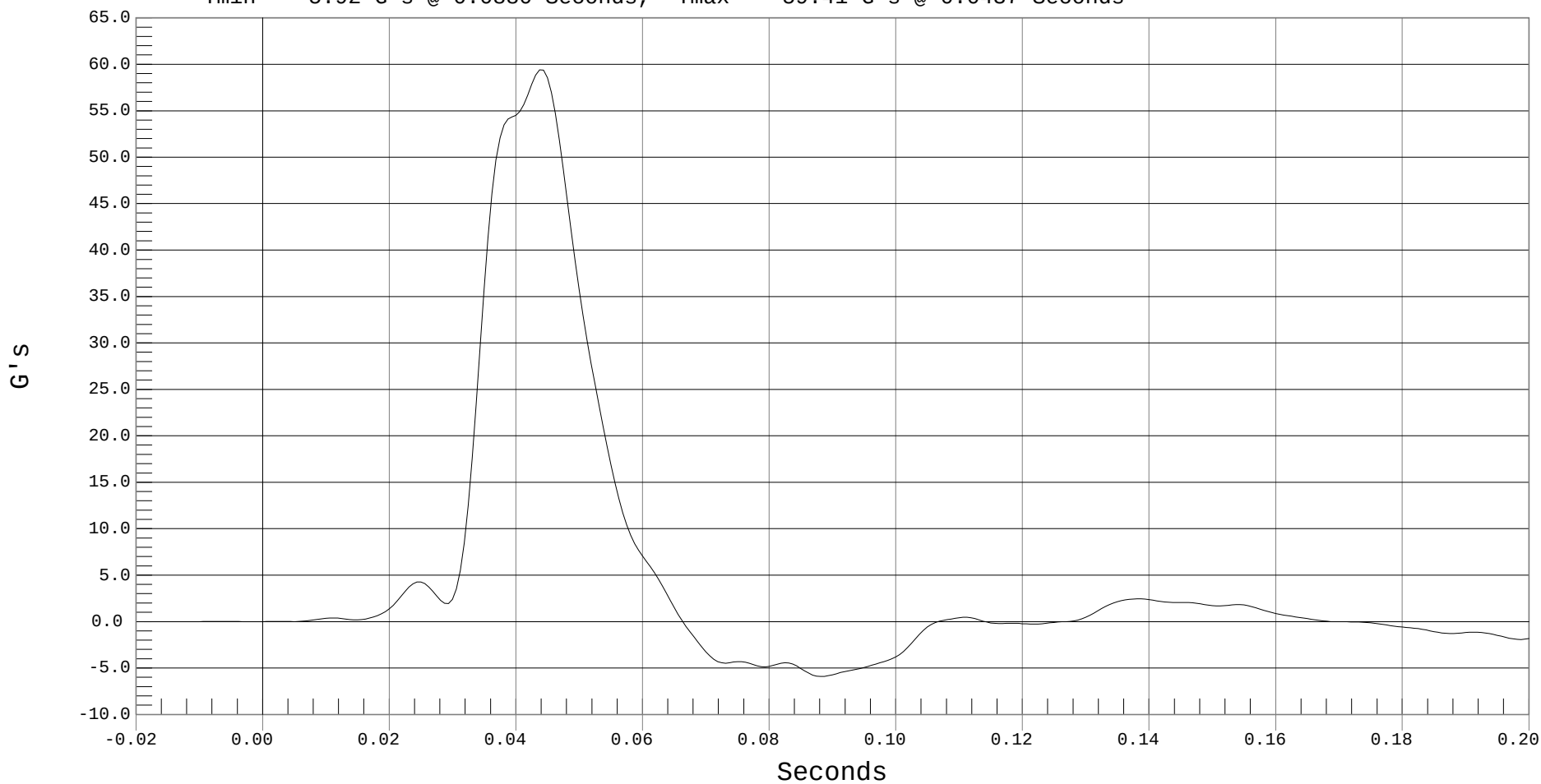
PASSENGER LOWER SPINE Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

1 REAR PASSENGER LOWER SPINE Z, B01102FI.R91

Ymin = -5.92 G's @ 0.0880 Seconds, Ymax = 59.41 G's @ 0.0437 Seconds





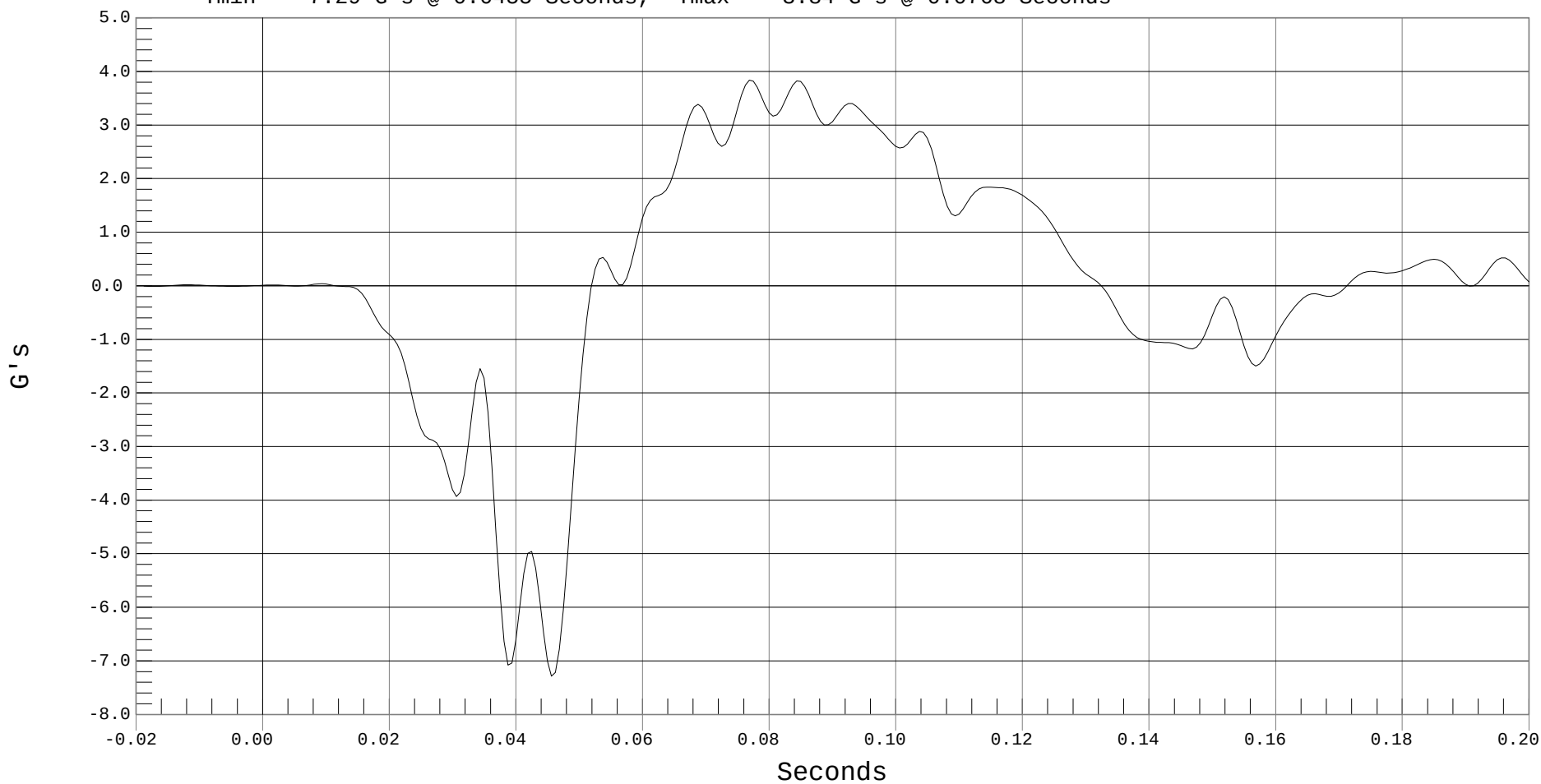
PASSENGER LOWER SPINE Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER LOWER SPINE Y, B01102FI.R90

Ymin = -7.29 G's @ 0.0455 Seconds, Ymax = 3.84 G's @ 0.0768 Seconds





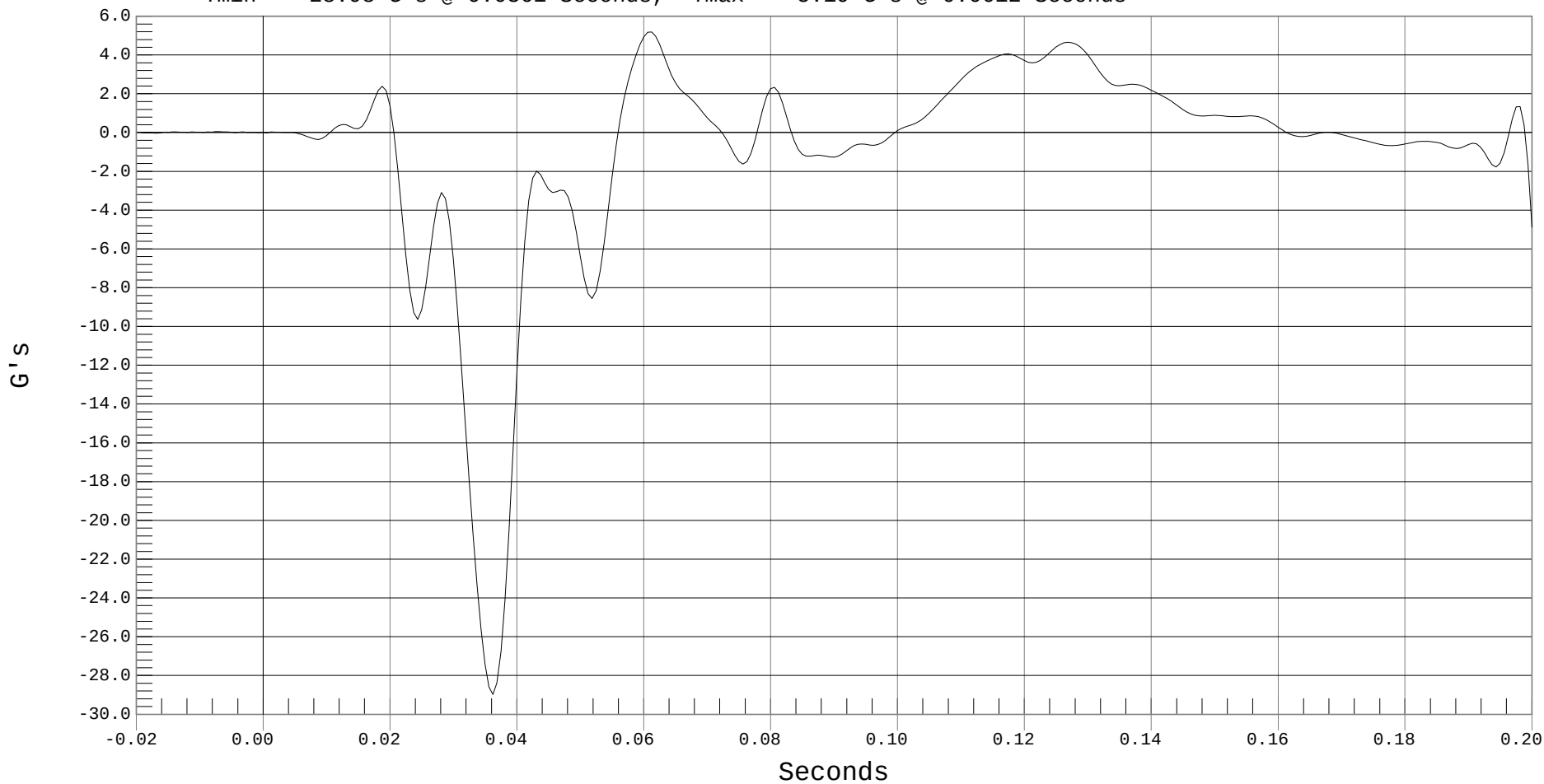
PASSENGER PELVIS X ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER PELVIS X, B01102FI.R10

Ymin = -28.98 G's @ 0.0361 Seconds, Ymax = 5.19 G's @ 0.0612 Seconds





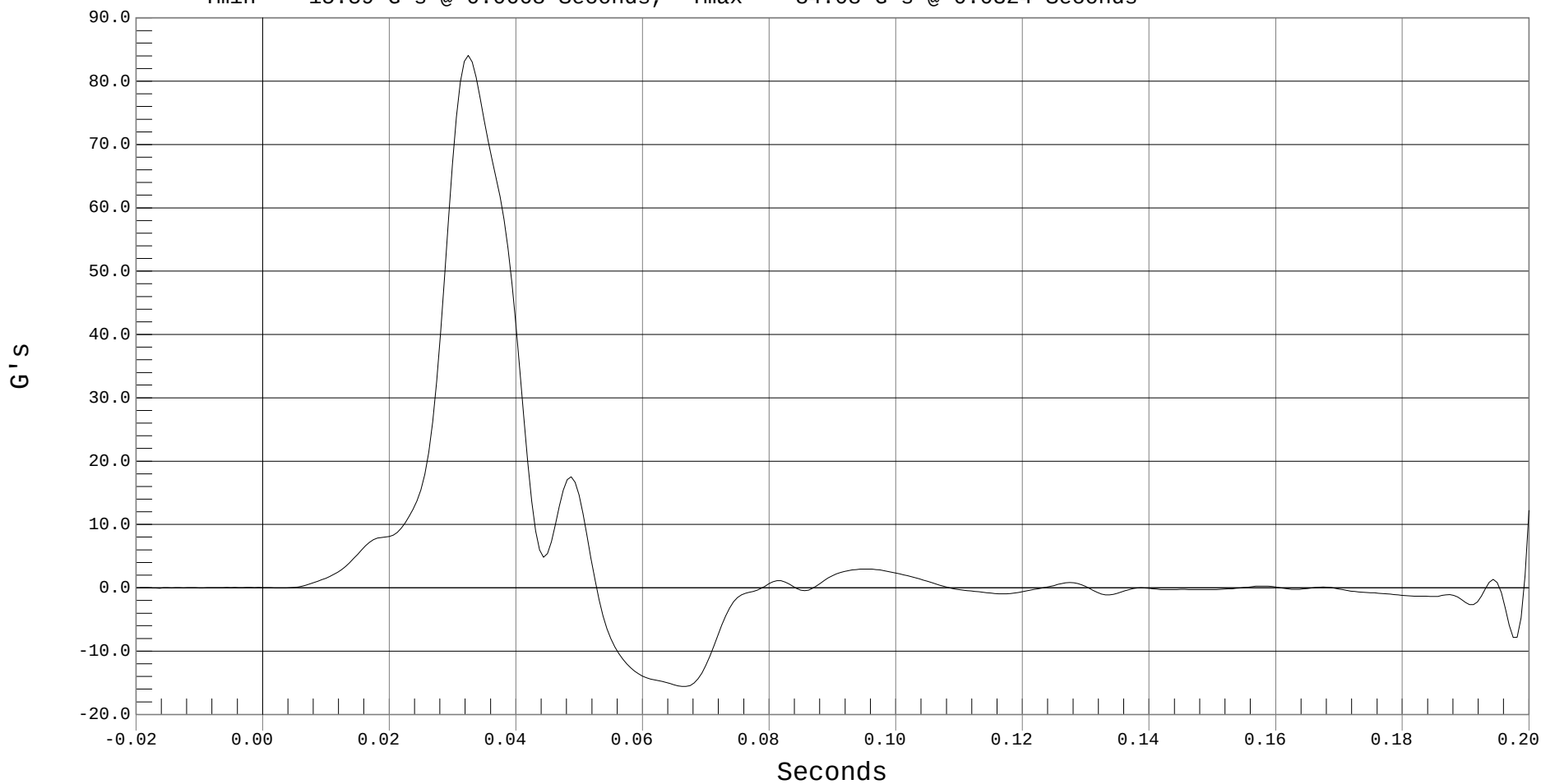
PASSENGER PELVIS Y ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER PELVIS Y, B01102FI.R11

Ymin = -15.59 G's @ 0.0668 Seconds, Ymax = 84.08 G's @ 0.0324 Seconds





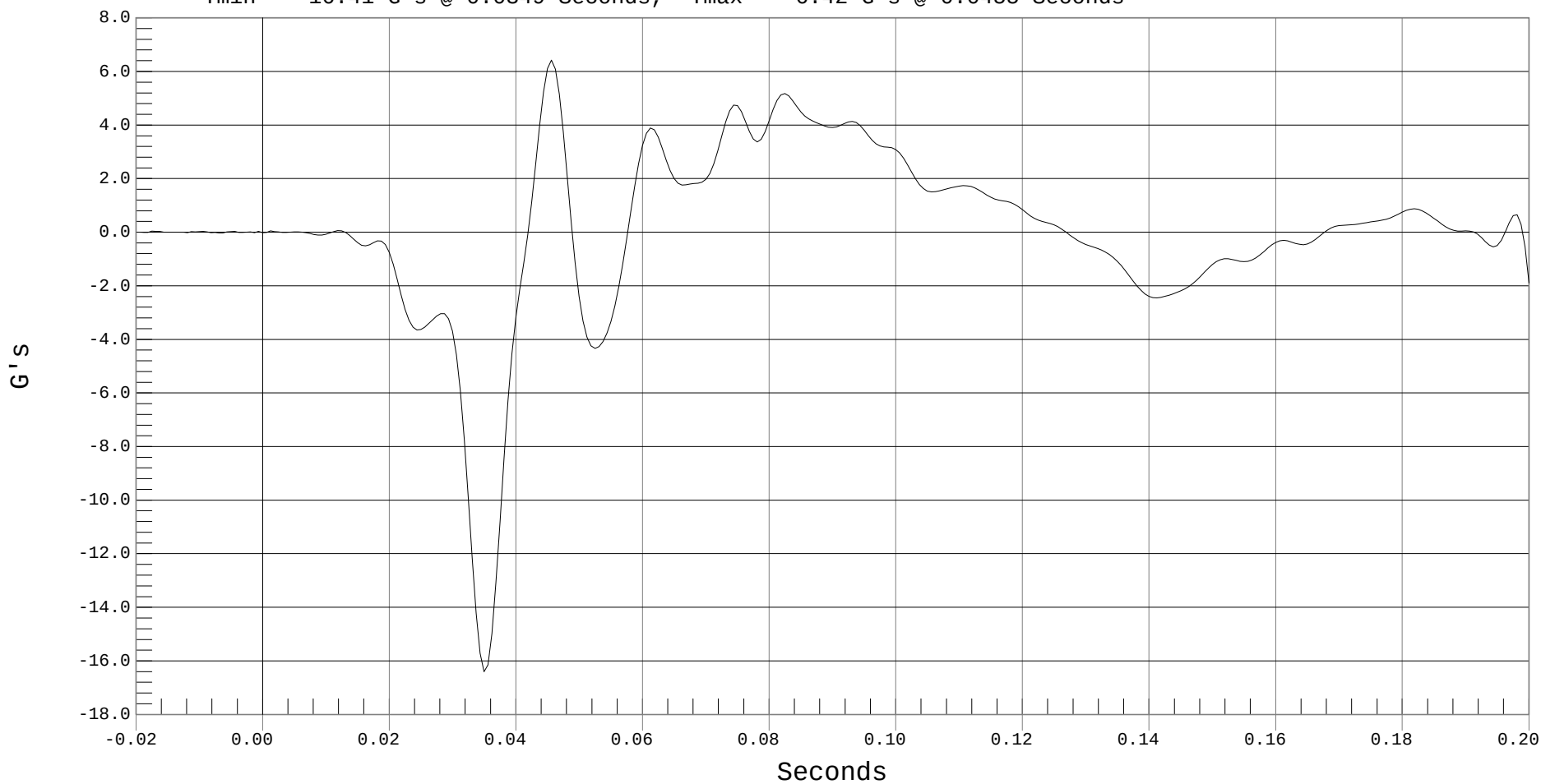
PASSENGER PELVIS Z ACCELERATION

Test Desc.: NCAP LEFT SIDE IMPACT
Component: 2001 FORD FOCUS 4 DOOR
Other Info:

Test Date: 10-05-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 REAR PASSENGER PELVIS Z, B01102FI.R12

Ymin = -16.41 G's @ 0.0349 Seconds, Ymax = 6.42 G's @ 0.0455 Seconds



APPENDIX C

ES-2 CONFIGURATION AND PERFORMANCE VERIFICATION DATA

CERTIFICATION DATA

Dummy Serial Number: 009

Calibration Test Results Summary

Dummy Serial Number: 009

Pre-Test Calibration

Head Drop Test:	The head passed all drop test requirements.
Neck Pendulum Test:	The neck passed all impact test requirements.
Shoulder Impact Test:	The shoulder passed all impact test requirements.
Rib Tests:	All ribs passed all impact test requirements.
Abdomen Test:	The abdomen passed all impact test requirements.
Lumbar Spine Test:	The lumbar spine passed all impact test requirements.
Pelvis Test:	The pelvis passed all impact test requirements.

MGA RESEARCH CORPORATION
HEAD DROP TEST
EUROSID 2 DUMMY

Date: 10/3/01
Dummy Serial Number: 009
Test Number: D011421

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.2
Relative Humidity (%)	10 – 70	46
Peak Resultant Acceleration	100 – 150 g's	141
Time of Max. Res. Acceleration		26.7 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



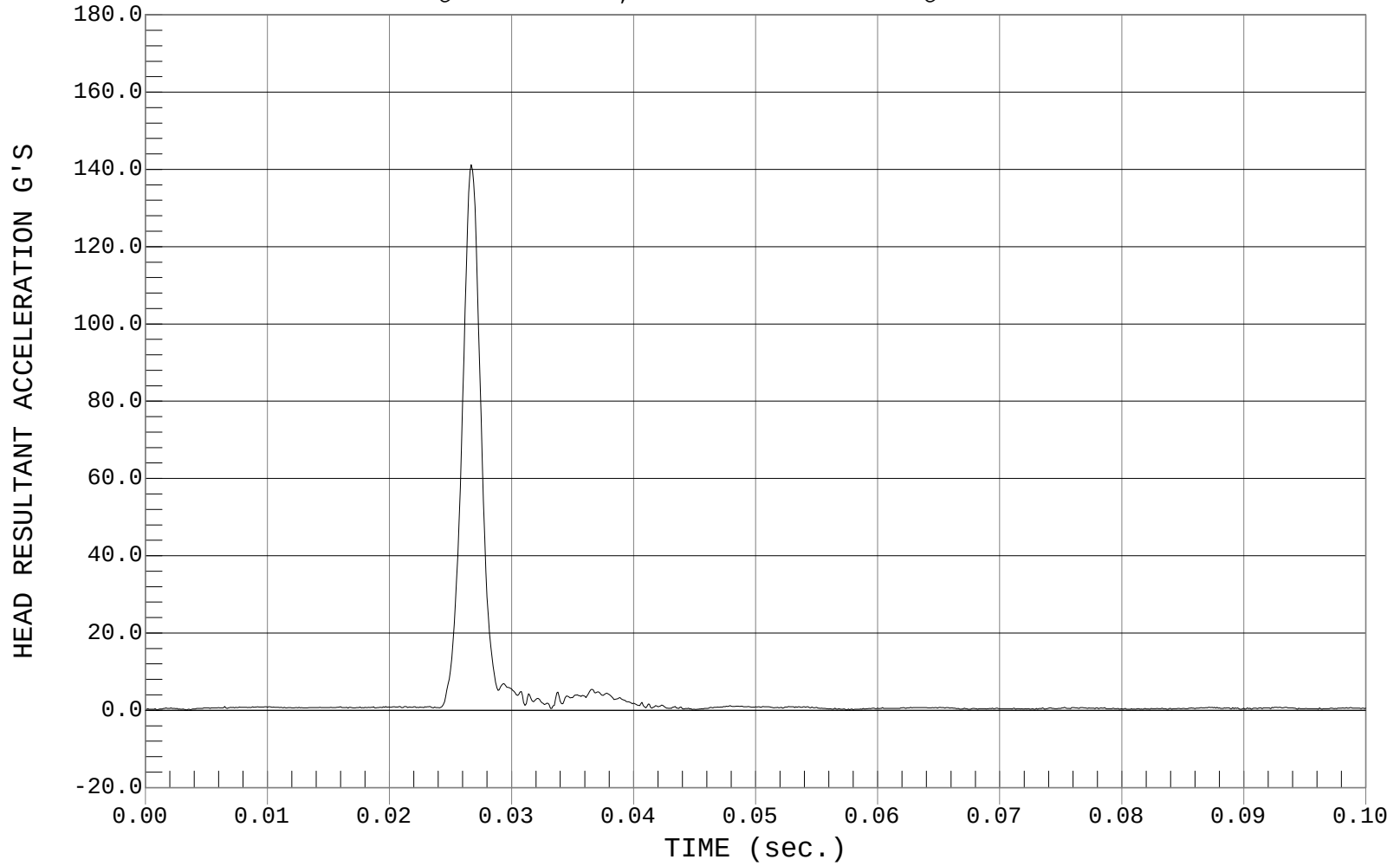
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #009

Test Date: 10-03-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01421AV.A01

Ymin = .07 G'S @ 0.0034 sec., Ymax = 141.17 G'S @ 0.0267 sec.



MGA RESEARCH CORPORATION
NECK PENDULUM TEST
EUROSID 2 DUMMY

Date: 10/2/01
Dummy Serial Number: 009
Test Number: D011422

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.6
Relative Humidity (%)		10 – 70	52
Pendulum Speed		3.3 - 3.5	3.40
Pendulum Deceleration	3 msec	1.25 - 1.53 m/sec	-.32
	8 msec	1.59 - 2.04 m/sec	-1.71
	14 msec	3.20 - 3.85 m/sec	-3.40
Maximum Flexion Angle		49.0 – 59.0 deg	56.7
Time of Max. Flexion Angle		54.0 – 66.0 ms	57.5
Maximum Angle Theta (A)		32.0 – 37.0 deg	34.6
Time of Max. Theta (A)		53.0 – 63.0 ms	57.4
Maximum Angle Theta (B)		29.78 – 32.28 deg	30.18
Time of Max. Theta (B)		54.0 – 64.0 ms	49.5

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

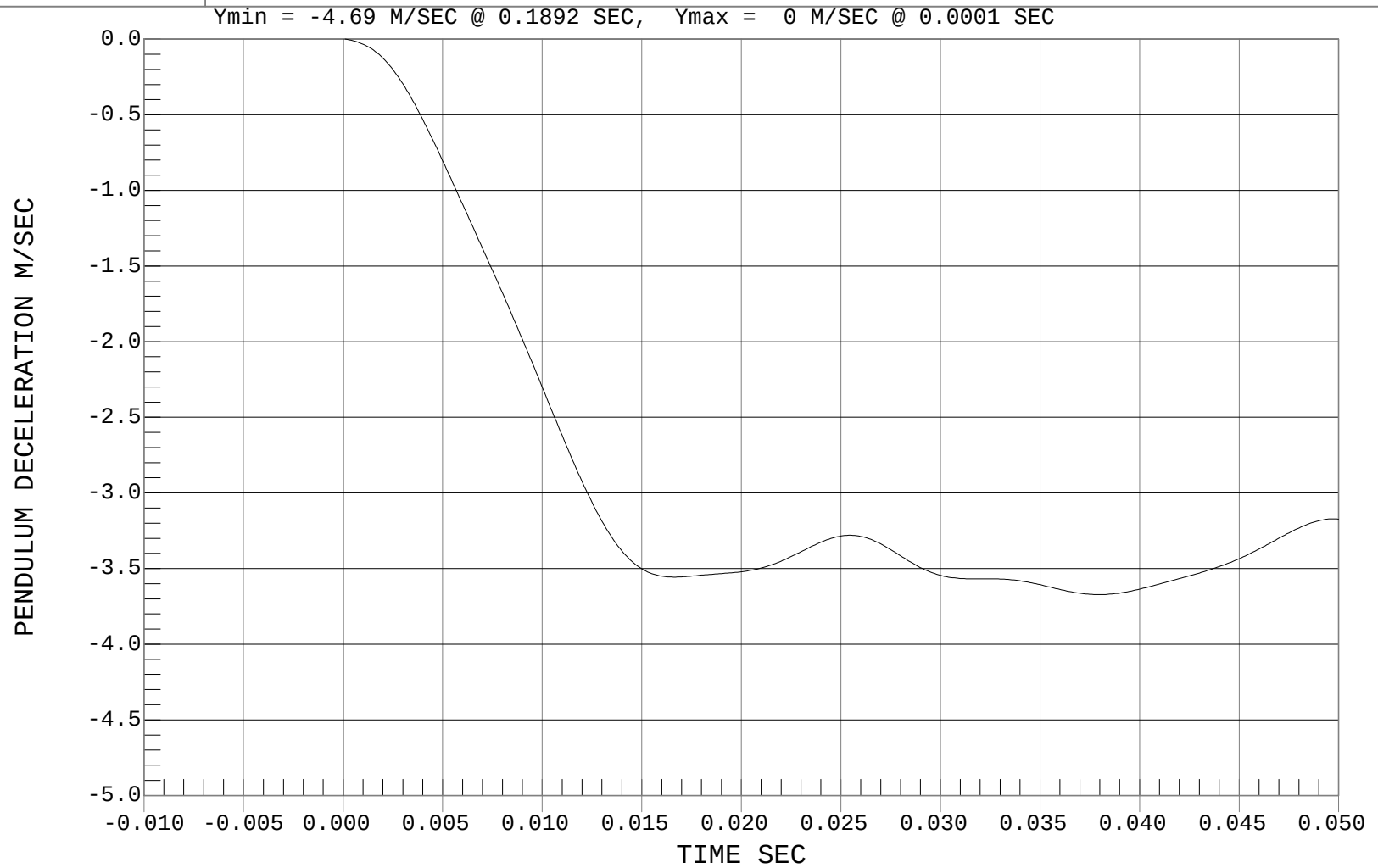


PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 10-02-01
Speed: 11.15 FT/SEC, 3.40 M/SEC

— 1 PENDULUM DECELERATION, D01422AI.V04





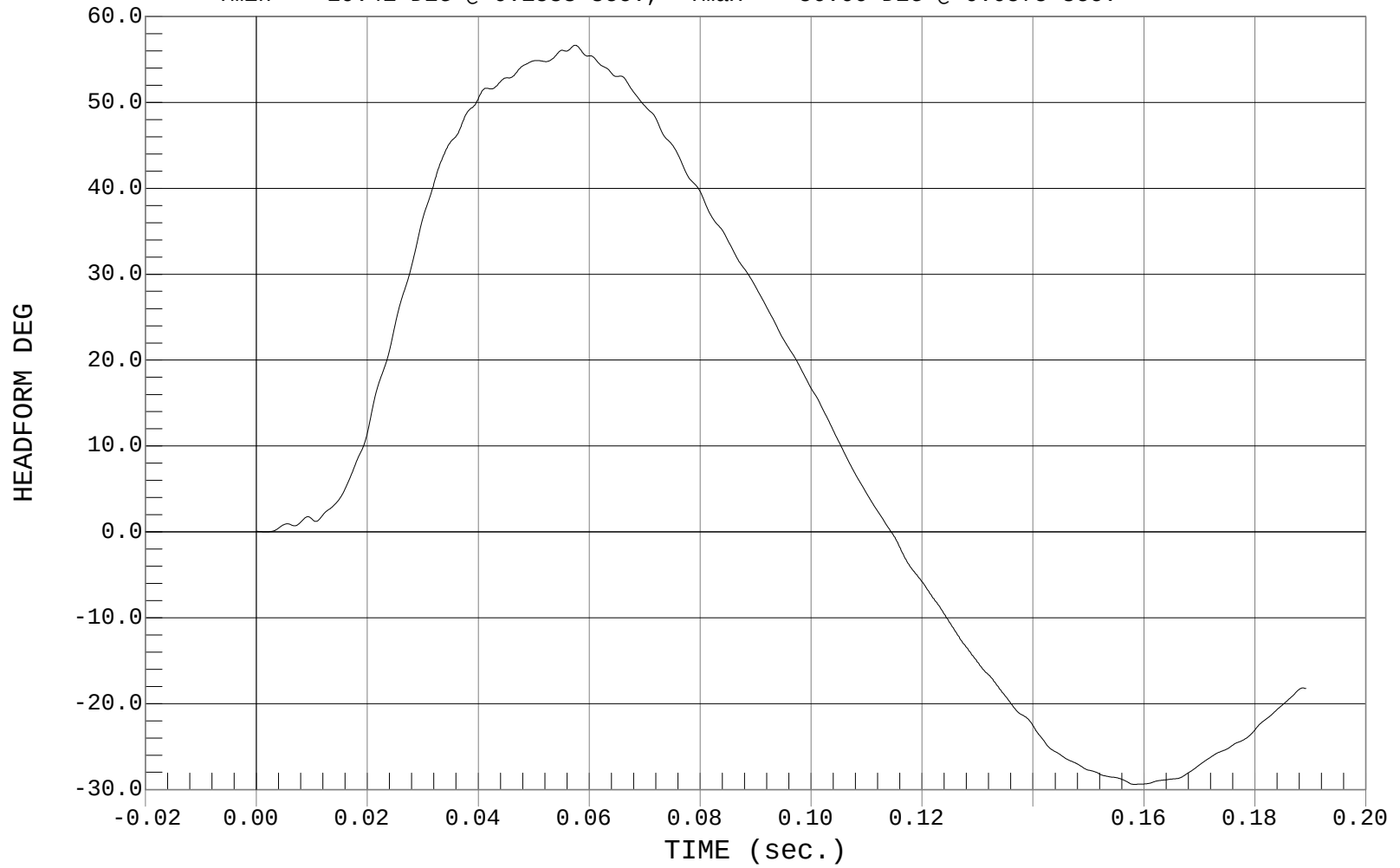
FLEXION ANGLE

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 10-02-01
Speed: 11.15 FT/SEC, 3.40 M/SEC

— 1 HEADFORM, D01422DT.D08

Ymin = -29.41 DEG @ 0.1583 sec., Ymax = 56.66 DEG @ 0.0575 sec.





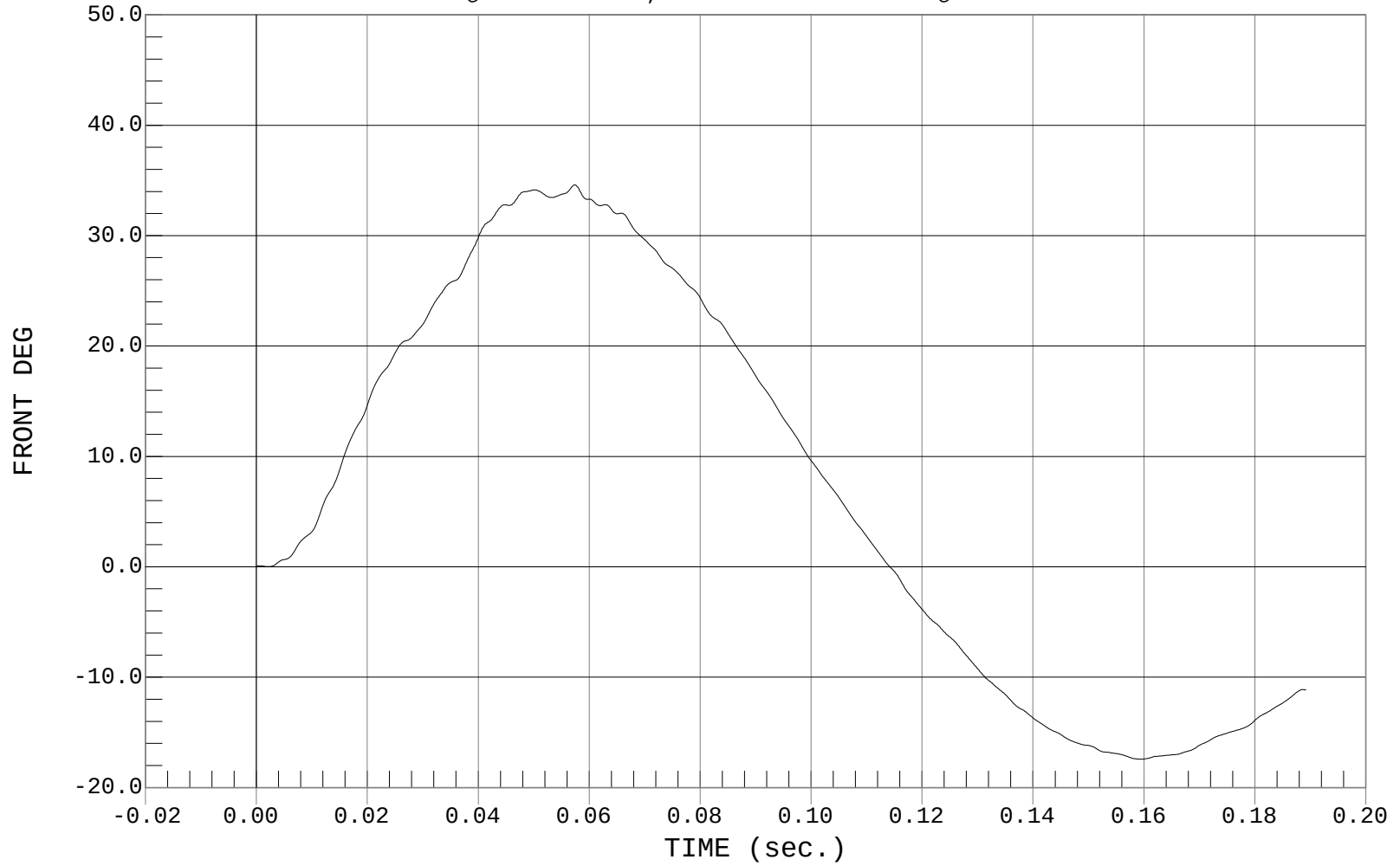
THETA A

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 10-02-01
Speed: 11.15 FT/SEC, 3.40 M/SEC

— 1 FRONT, D01422DT.D05

Ymin = -17.43 DEG @ 0.1596 sec., Ymax = 34.59 DEG @ 0.0574 sec.



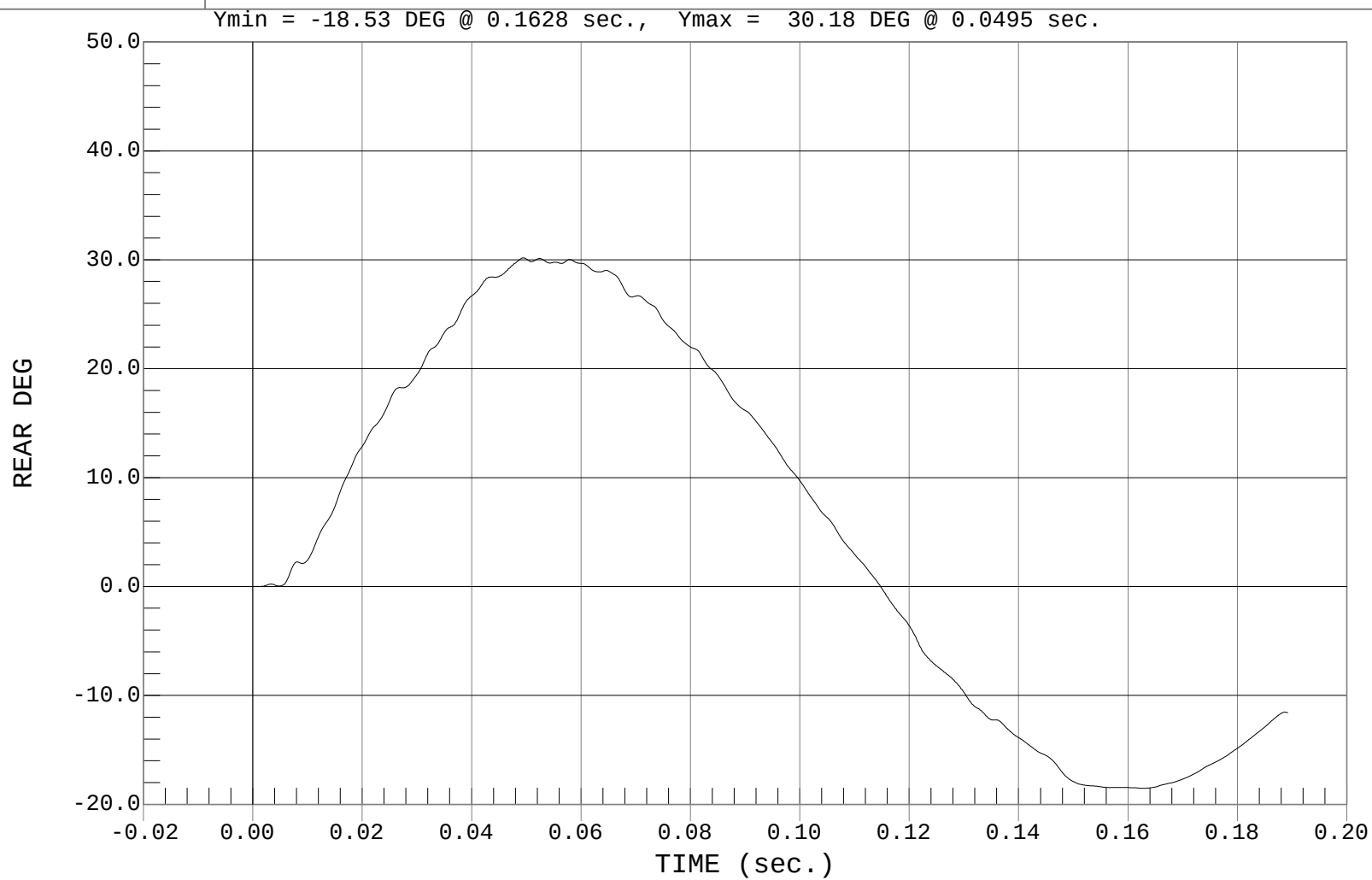


THETA B

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 10-02-01
Speed: 11.15 FT/SEC, 3.40 M/SEC

— 1 REAR, D01422DT.D06



MGA RESEARCH CORPORATION
SHOULDER IMPACT TEST
EUROSID 2 DUMMY

Date: 10/4/01
Dummy Serial Number: 009
Test Number: D011423

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.5
Relative Humidity (%)	10 – 70	48
Pendulum Speed	4.2 – 4.4 m/s	4.3
Max. Resultant Acceleration	7.5 – 10.5 g's	9.4
Time of Max. Pendulum Acceleration		23.6 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



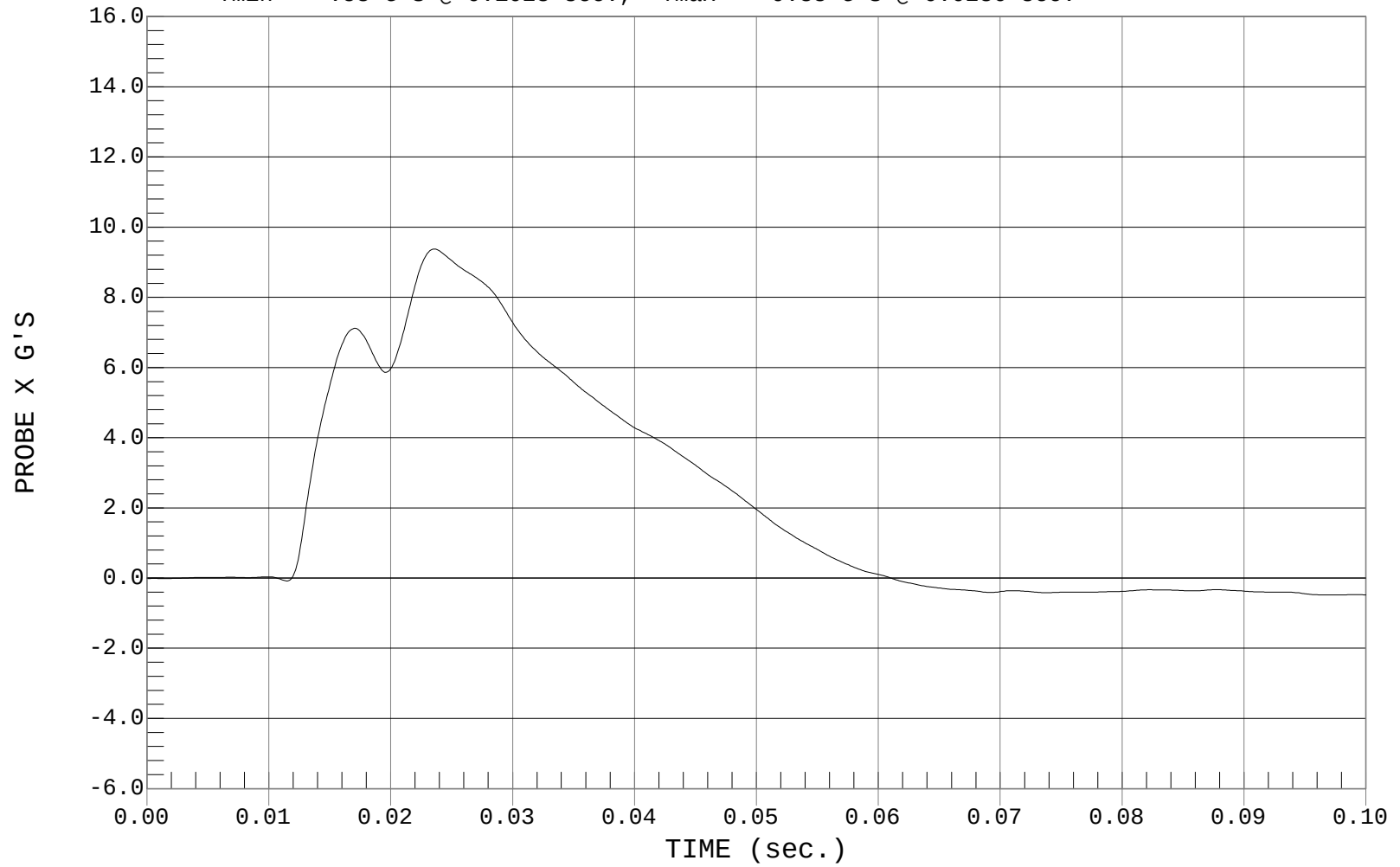
SHOULDER ACCELERATION

Test Desc.: Dummy Calibration - Shoulder Impact
Component: Dummy #009

Test Date: 10-04-01
Speed: 14.09 FT/SEC, 4.29 M/SEC

— 1 PROBE X, D01423AF.A01

Ymin = -.53 G'S @ 0.1023 sec., Ymax = 9.38 G'S @ 0.0236 sec.



MGA RESEARCH CORPORATION
UPPER/MIDDLE/LOWER RIB TESTS
SIDE IMPACT DUMMY (SID)

Date: 10/3/01
Dummy Serial Number: 009
Test Number: D011424/5/6

UPPER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.3
Relative Humidity (%)	10 – 70	49
Displacement at 2 m/s	23.5 – 27.5 mm	25.8
Displacement at 3 m/s	36.0 – 40.0 mm	38.9
Displacement at 4 m/s	46.0 – 51.0 mm	49.2

MIDDLE RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.3
Relative Humidity (%)	10 – 70	47
Displacement at 2 m/s	23.5 – 27.5 mm	25.6
Displacement at 3 m/s	36.0 – 40.0 mm	38.6
Displacement at 4 m/s	46.0 – 51.0 mm	49.6

LOWER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.4
Relative Humidity (%)	10 – 70	49
Displacement at 2 m/s	23.5 – 27.5 mm	25.9
Displacement at 3 m/s	36.0 – 40.0 mm	39.1
Displacement at 4 m/s	46.0 – 51.0 mm	49.4

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



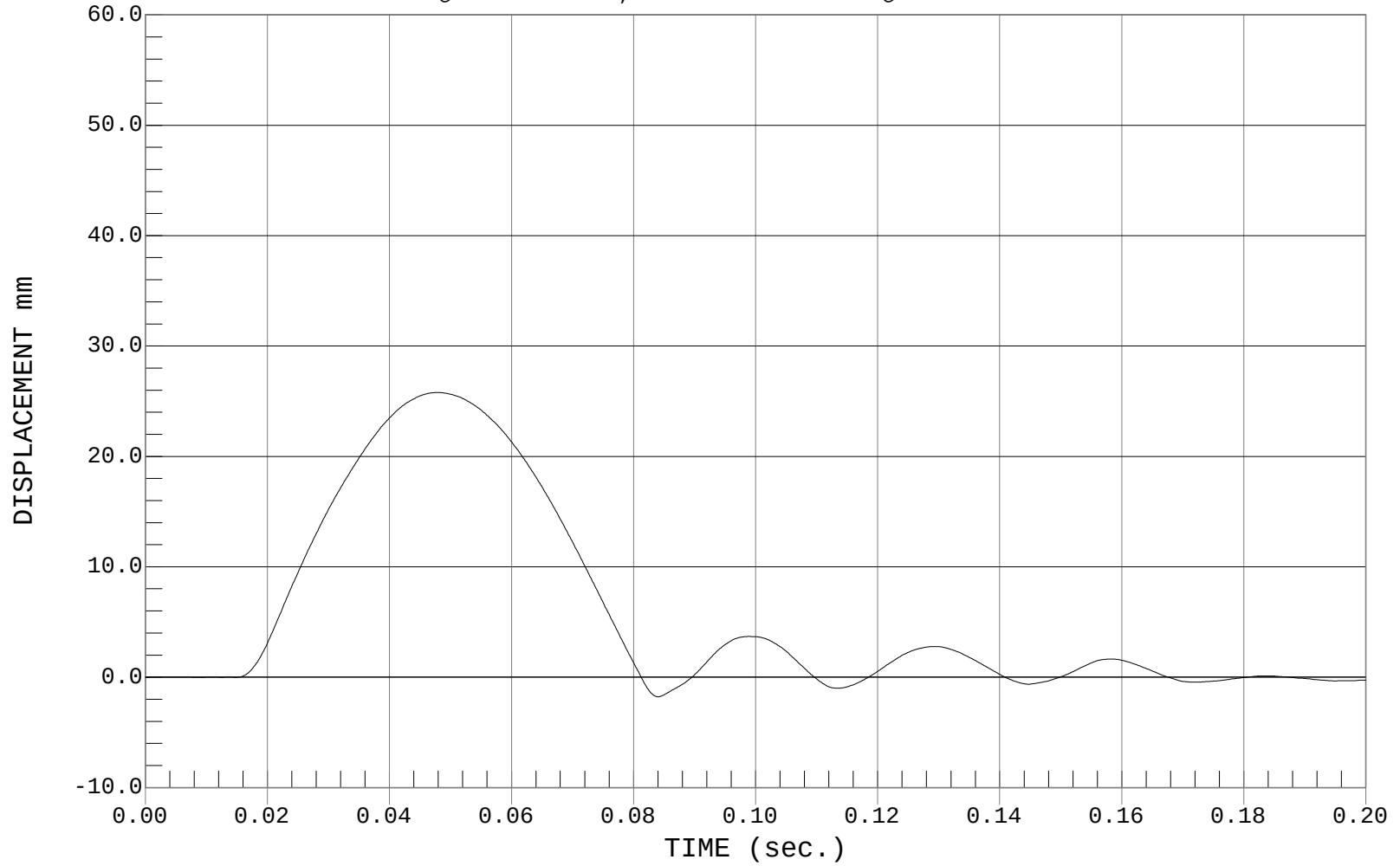
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01424DF.D05

Ymin = -1.77 mm @ 0.0840 sec., Ymax = 25.8 mm @ 0.0479 sec.





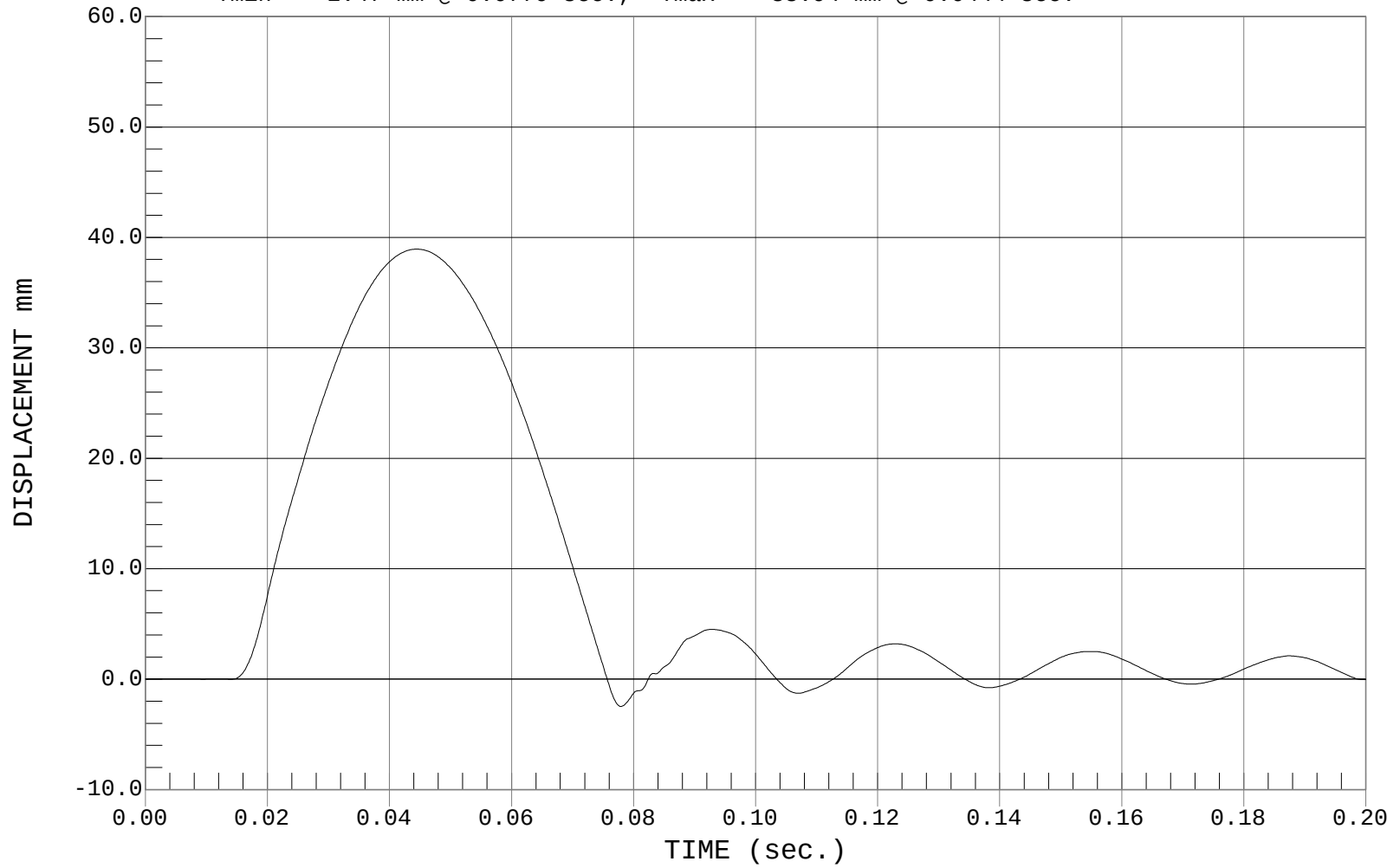
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01424DF.D06

Ymin = -2.47 mm @ 0.0779 sec., Ymax = 38.94 mm @ 0.0444 sec.





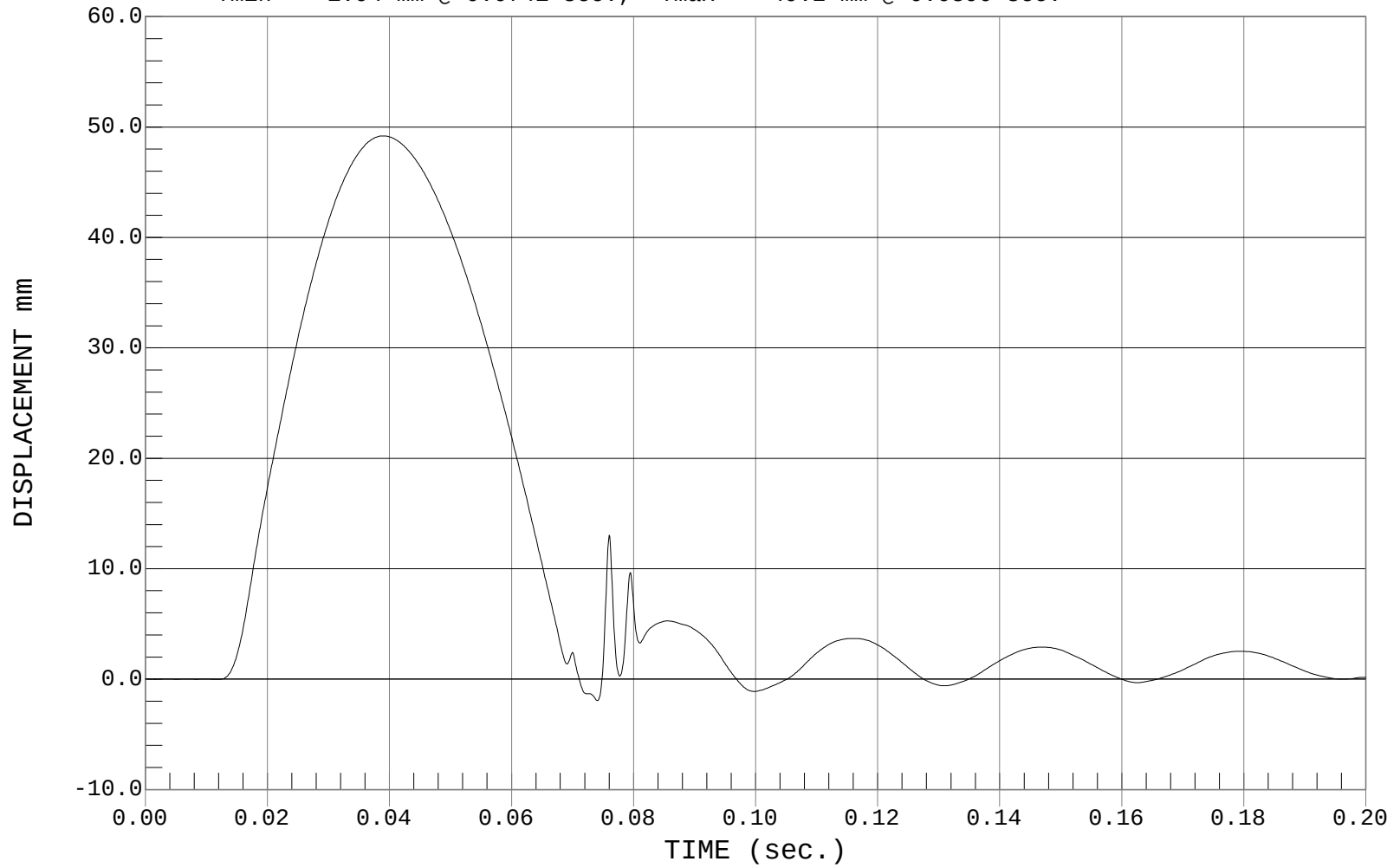
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01424DF.D07

Ymin = -1.94 mm @ 0.0741 sec., Ymax = 49.2 mm @ 0.0390 sec.





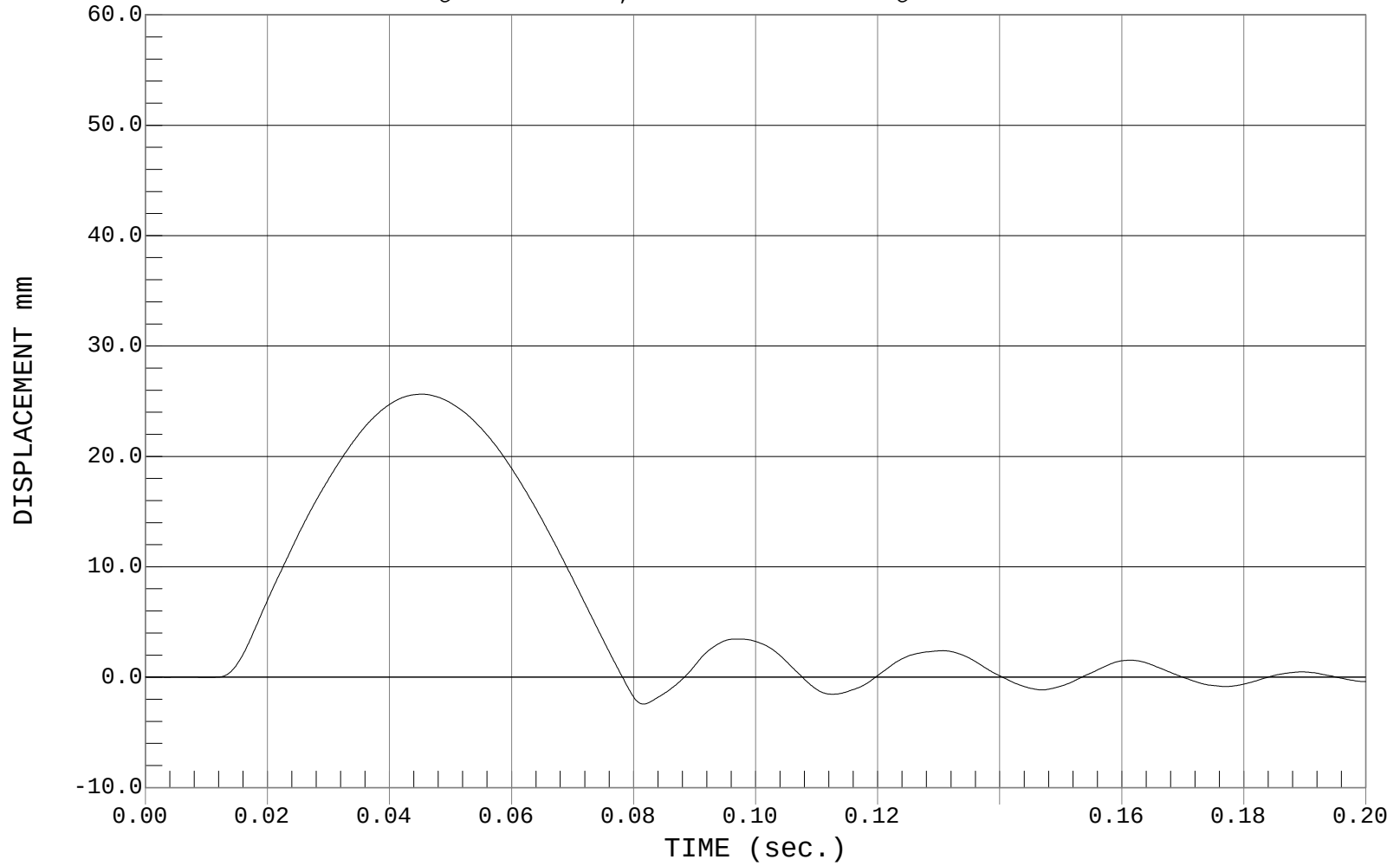
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01425DF.D05

Ymin = -2.44 mm @ 0.0816 sec., Ymax = 25.63 mm @ 0.0453 sec.





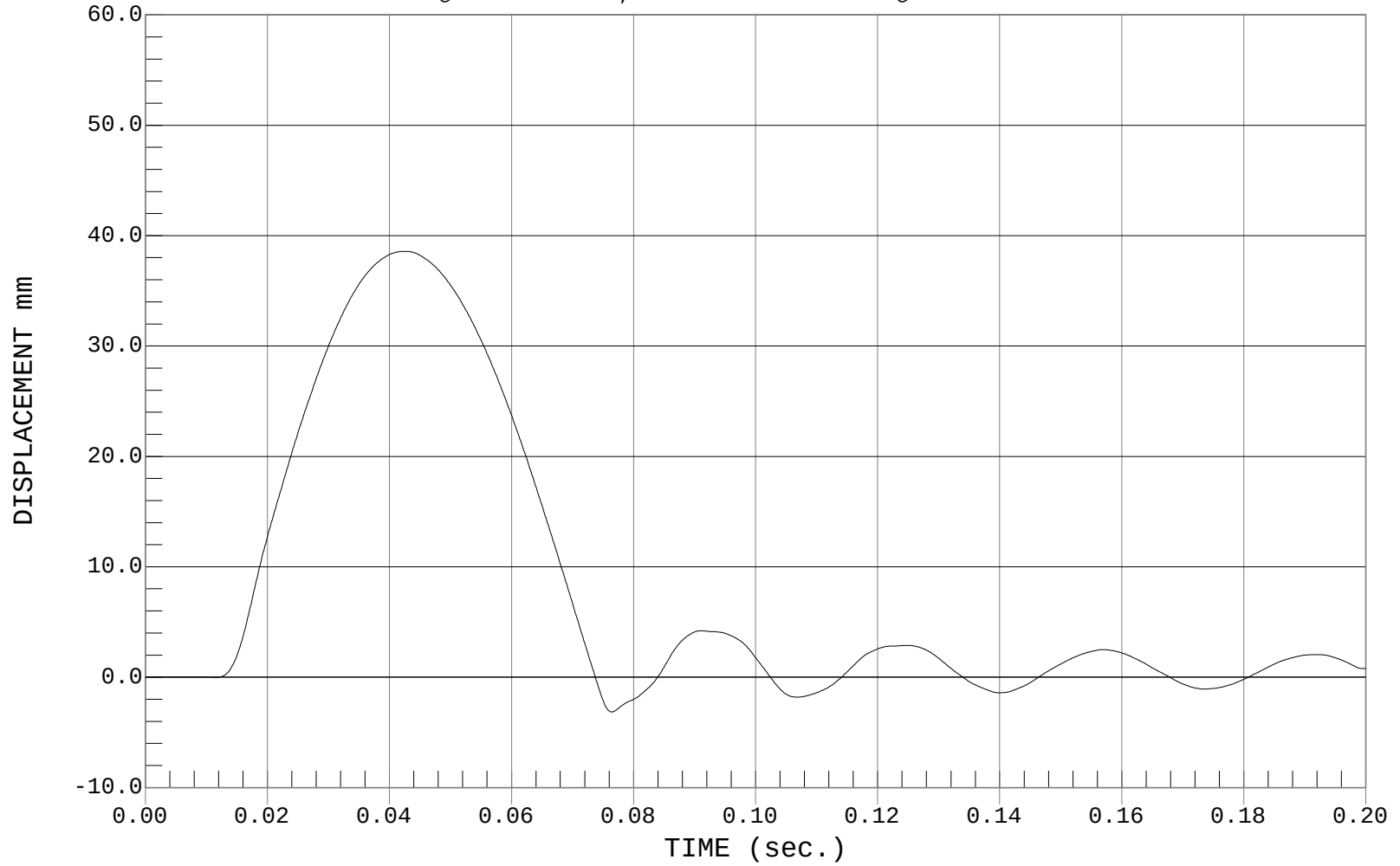
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01425DF.D06

Ymin = -3.15 mm @ 0.0764 sec., Ymax = 38.57 mm @ 0.0425 sec.





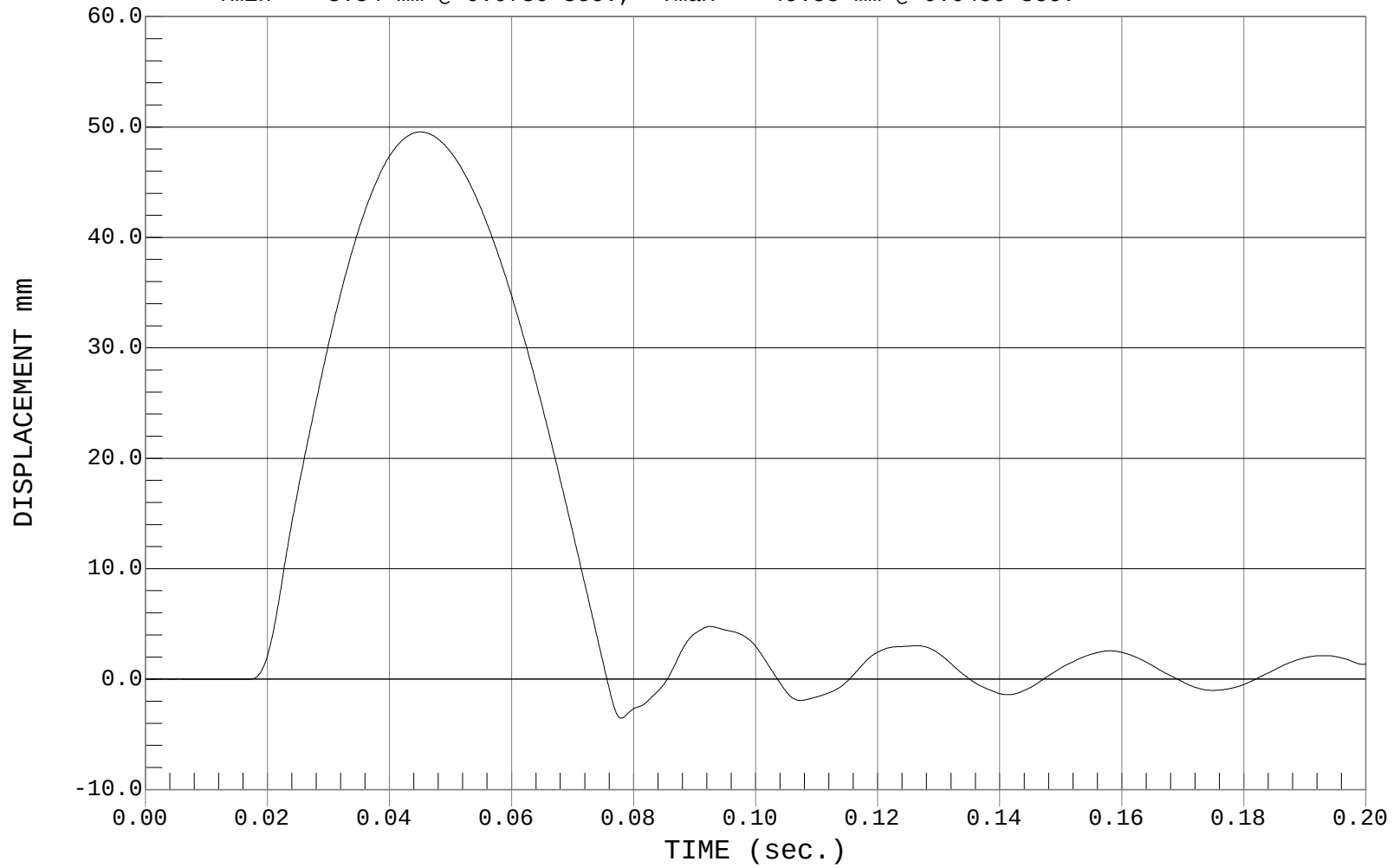
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01425DF.D07

Ymin = -3.54 mm @ 0.0780 sec., Ymax = 49.55 mm @ 0.0450 sec.





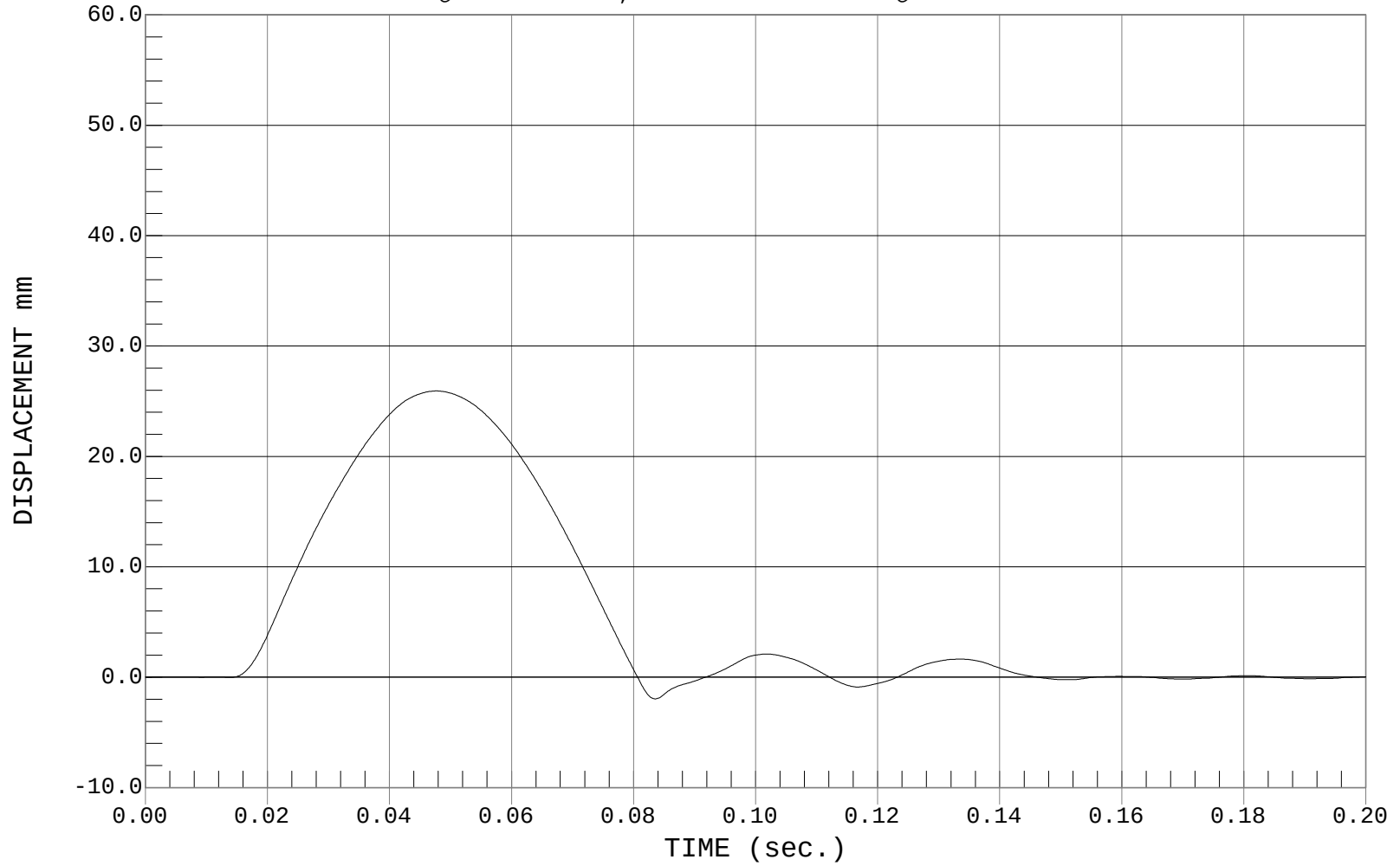
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01426DF.D05

Ymin = -1.96 mm @ 0.0835 sec., Ymax = 25.93 mm @ 0.0477 sec.





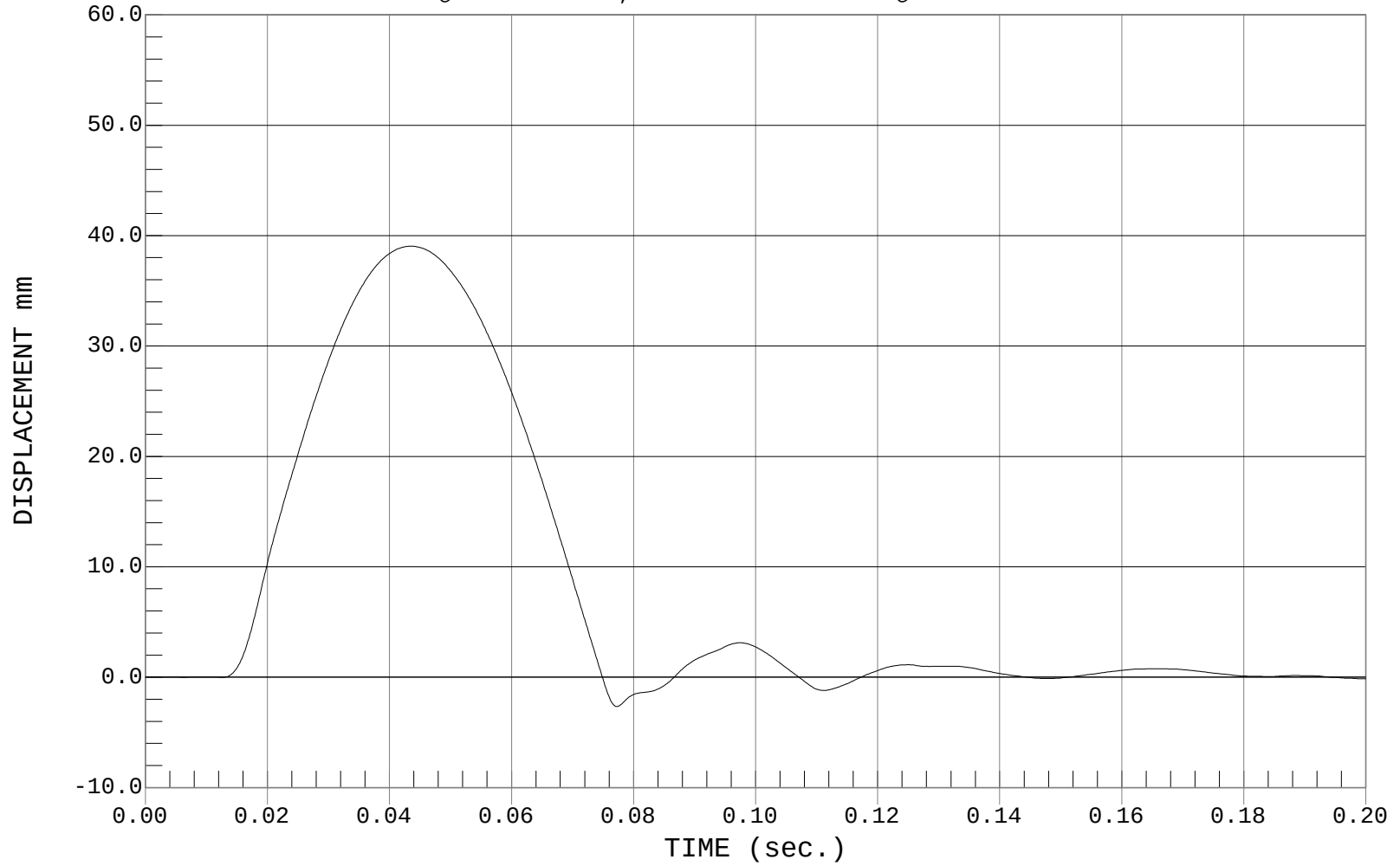
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01426DF.D06

Ymin = -2.66 mm @ 0.0773 sec., Ymax = 39.05 mm @ 0.0435 sec.





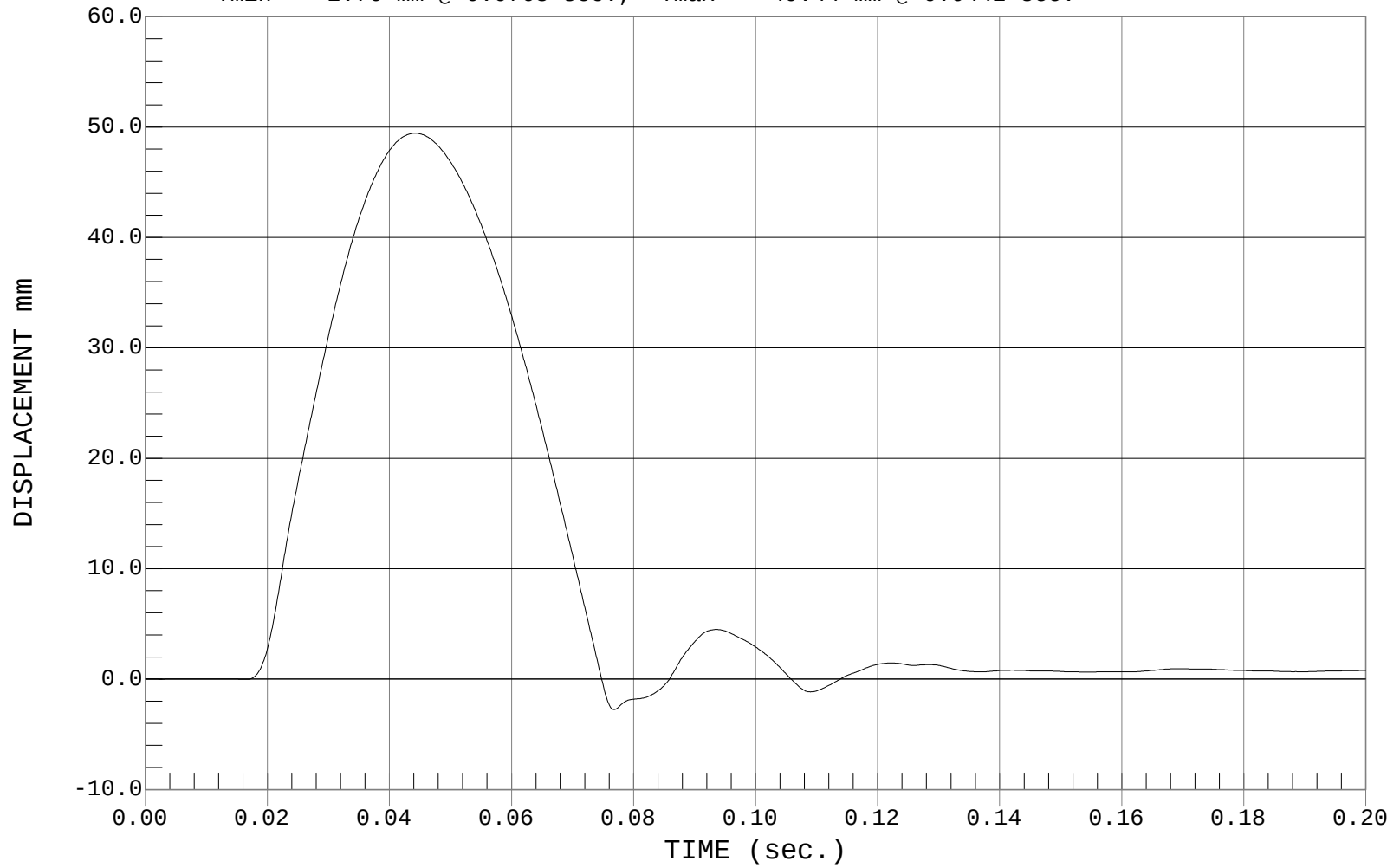
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-03-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01426DF.D07

Ymin = -2.76 mm @ 0.0768 sec., Ymax = 49.44 mm @ 0.0442 sec.



MGA RESEARCH CORPORATION
ABDOMEN TEST
EUROSID 2 DUMMY

Date: 10/4/01
Dummy Serial Number: 009
Test Number: D011427

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.3
Relative Humidity (%)	10 – 70	49
Probe Speed (m/s)	3.90 – 4.10	4.01
Maximum Impact Force	4.00 – 4.80 kN	4.76
Time of Maximum Force	10.60 – 13.00 ms	11.30
Maximum Total Abdomen Force	2.20 – 2.70 kN	2.22
Time of Max. Total Force	10.00 – 12.30 ms	11.00

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



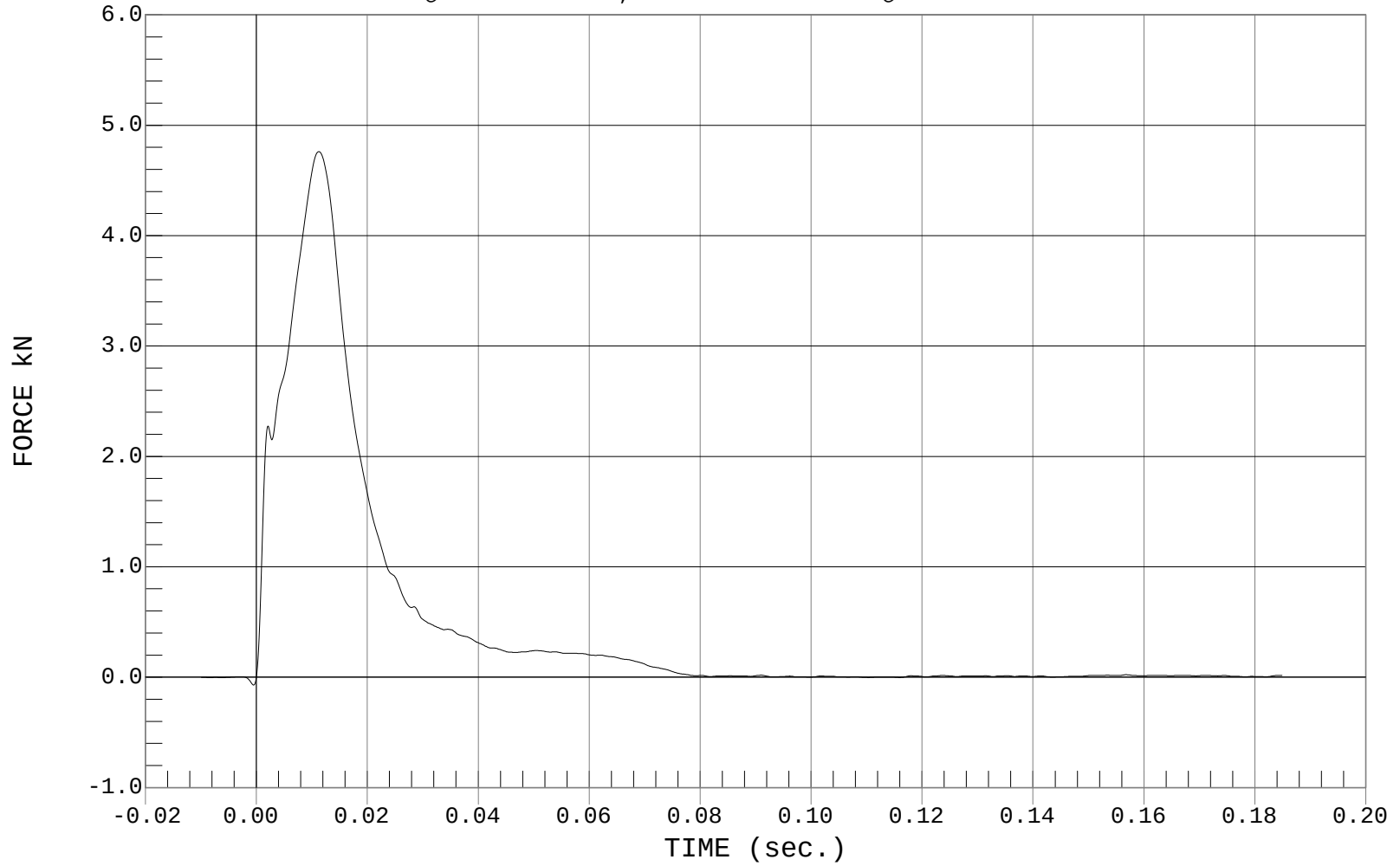
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Abdomen Impact
Component: Dummy #009

Test Date: 10-04-01
Speed: 13.15 FT/SEC, 4.01 M/SEC

— 1 FORCE, D01427FT.F01

Ymin = -.07 kN @ -0.0005 sec., Ymax = 4.76 kN @ 0.0113 sec.





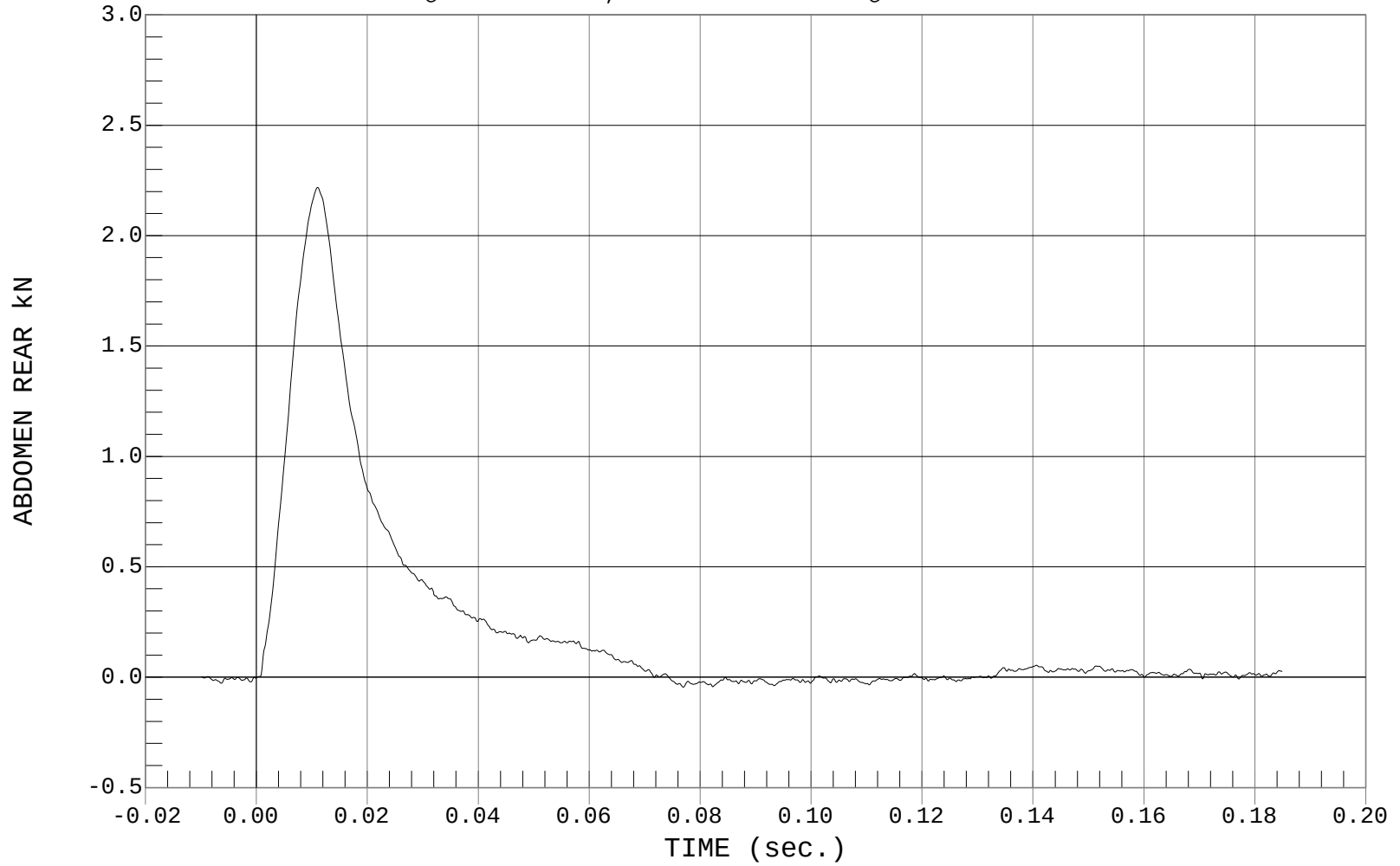
ABDOMEN FORCE

Test Desc.: Dummy Calibration - Abdomen Impact
Component: Dummy #009

Test Date: 10-04-01
Speed: 13.15 FT/SEC, 4.01 M/SEC

— 1 ABDOMEN REAR, D01427FT.F02

Ymin = -.05 kN @ 0.0770 sec., Ymax = 2.22 kN @ 0.0110 sec.



MGA RESEARCH CORPORATION
LUMBAR SPINE TEST
EUROSID 2 DUMMY

Date: 10/2/01
Dummy Serial Number: 009
Test Number: D011428

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.4
Relative Humidity (%)		10 – 70	50
Pendulum Speed		5.95 – 6.15	6.06
Pendulum Deceleration	10 msec	2.46 - 1.59 m/sec	-2.07
	20 msec	5.25 - 4.07 m/sec	-4.74
	25 msec	6.64 - 5.3 m/sec	-5.90
	30 msec	≥ -6.5 m/sec	-6.23
Maximum Flexion Angle		45.0 – 55.0 deg	54.7
Time of Max. Flexion Angle		39.0 – 53.0 ms	50.3
Maximum Angle Theta (A)		31.0 – 35.0 deg	34.3
Time of Max. Theta (A)		44.0 – 52.0 ms	50.2
Maximum Angle Theta (B)		29.36– 31.86 deg	30.62
Time of Max. Theta (B)		44.0 – 52.0 ms	49.8

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



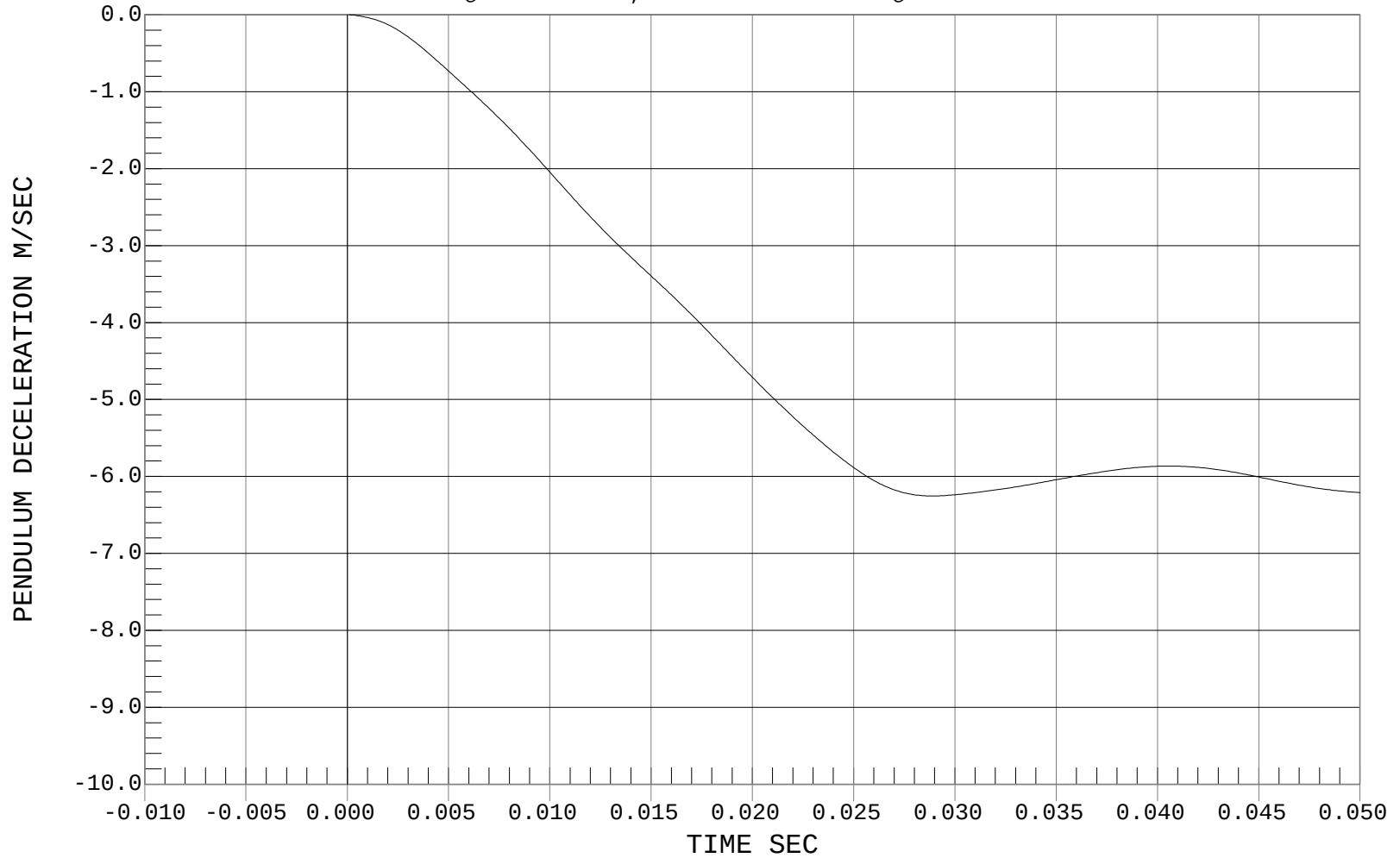
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 10-02-01
Speed: 19.88 FT/SEC, 6.06 M/SEC

— 1 PENDULUM DECELERATION, D01428AI.V04

Ymin = -7.6 M/SEC @ 0.01479 SEC, Ymax = 0 M/SEC @ 0.00001 SEC





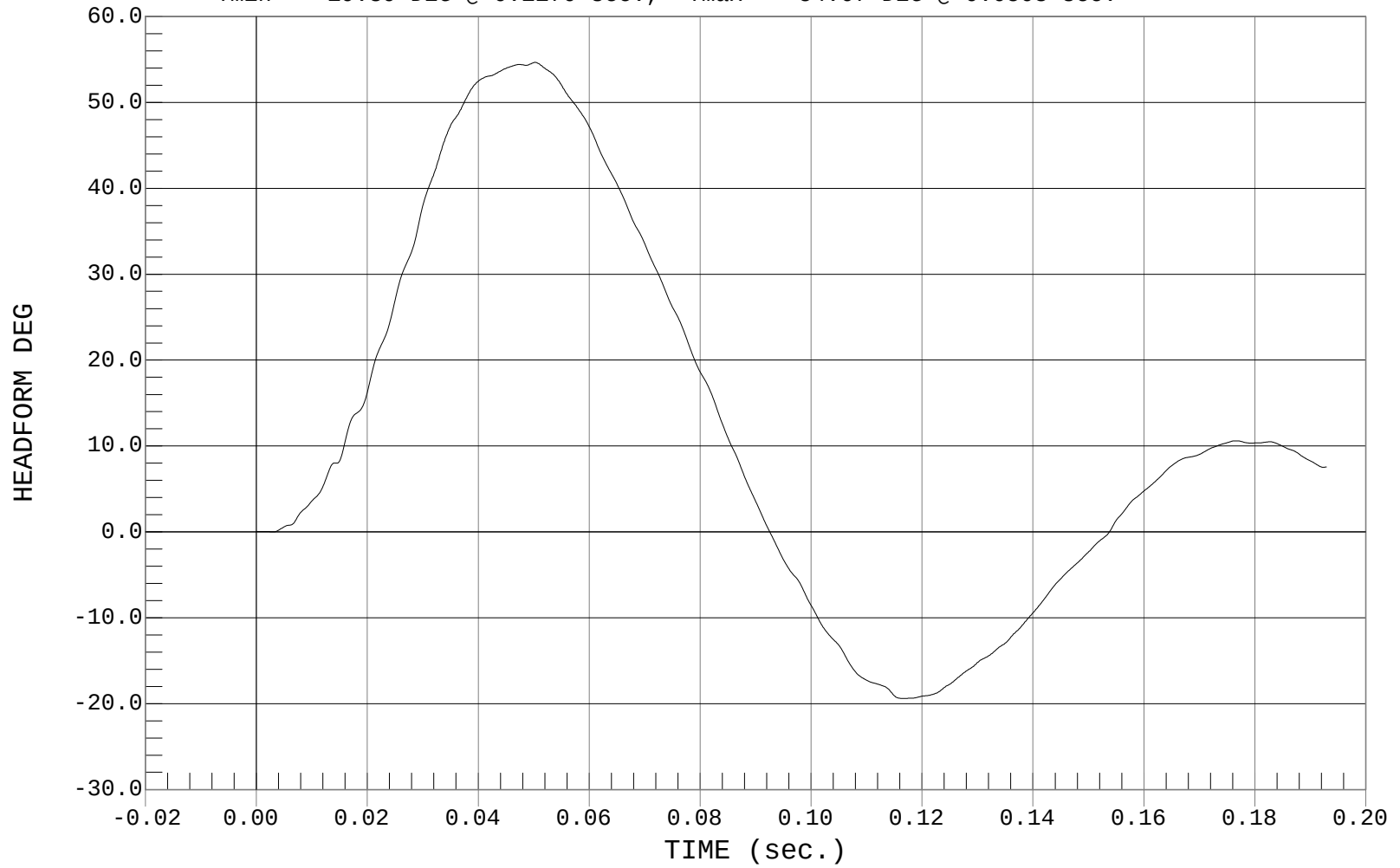
FLEXION ANGLE

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 10-02-01
Speed: 19.88 FT/SEC, 6.06 M/SEC

— 1 HEADFORM, D01428DT.D08

Ymin = -19.39 DEG @ 0.1170 sec., Ymax = 54.67 DEG @ 0.0503 sec.





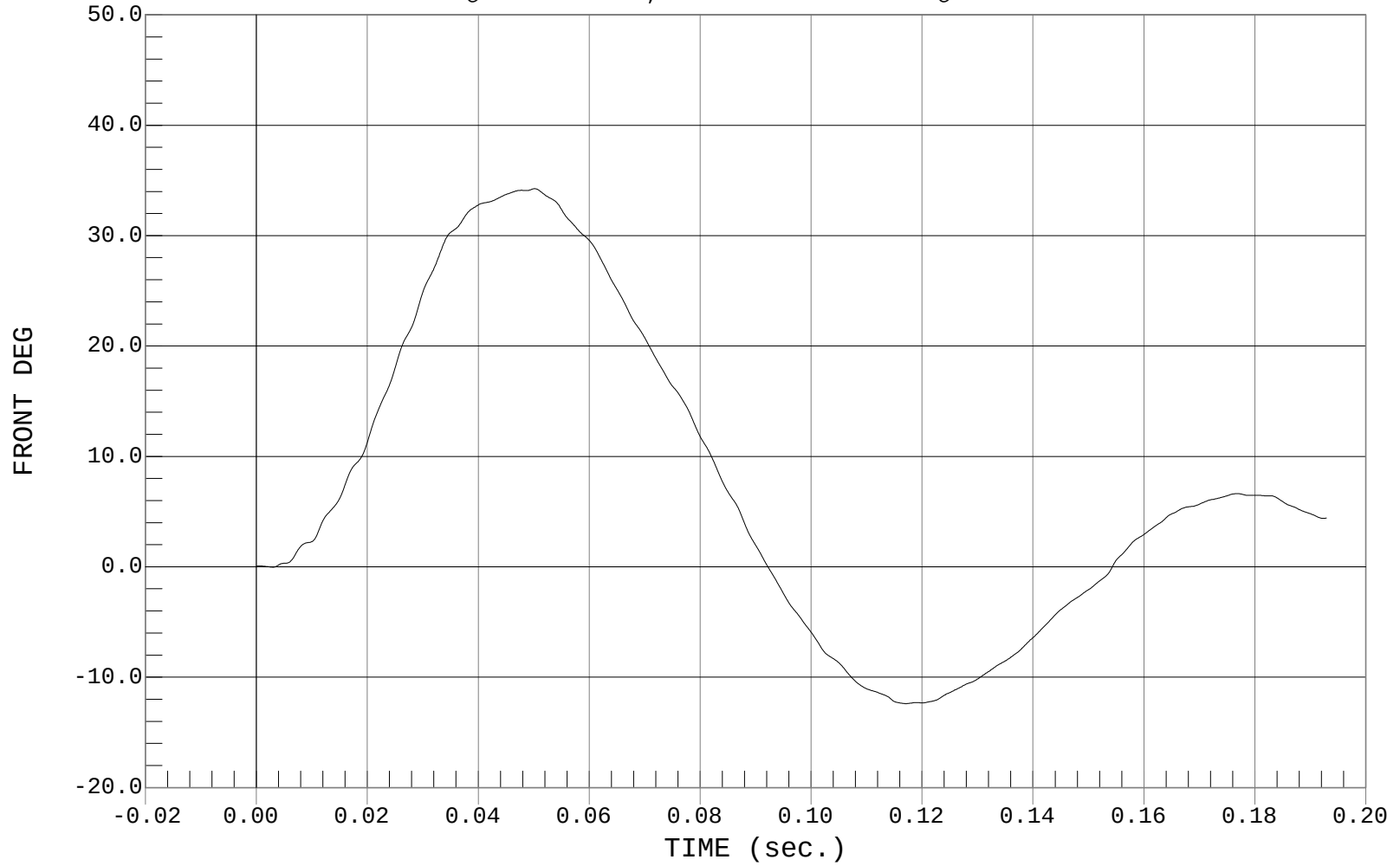
THETA A

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 10-02-01
Speed: 19.88 FT/SEC, 6.06 M/SEC

— 1 FRONT, D01428DT.D05

Ymin = -12.39 DEG @ 0.1171 sec., Ymax = 34.26 DEG @ 0.0502 sec.





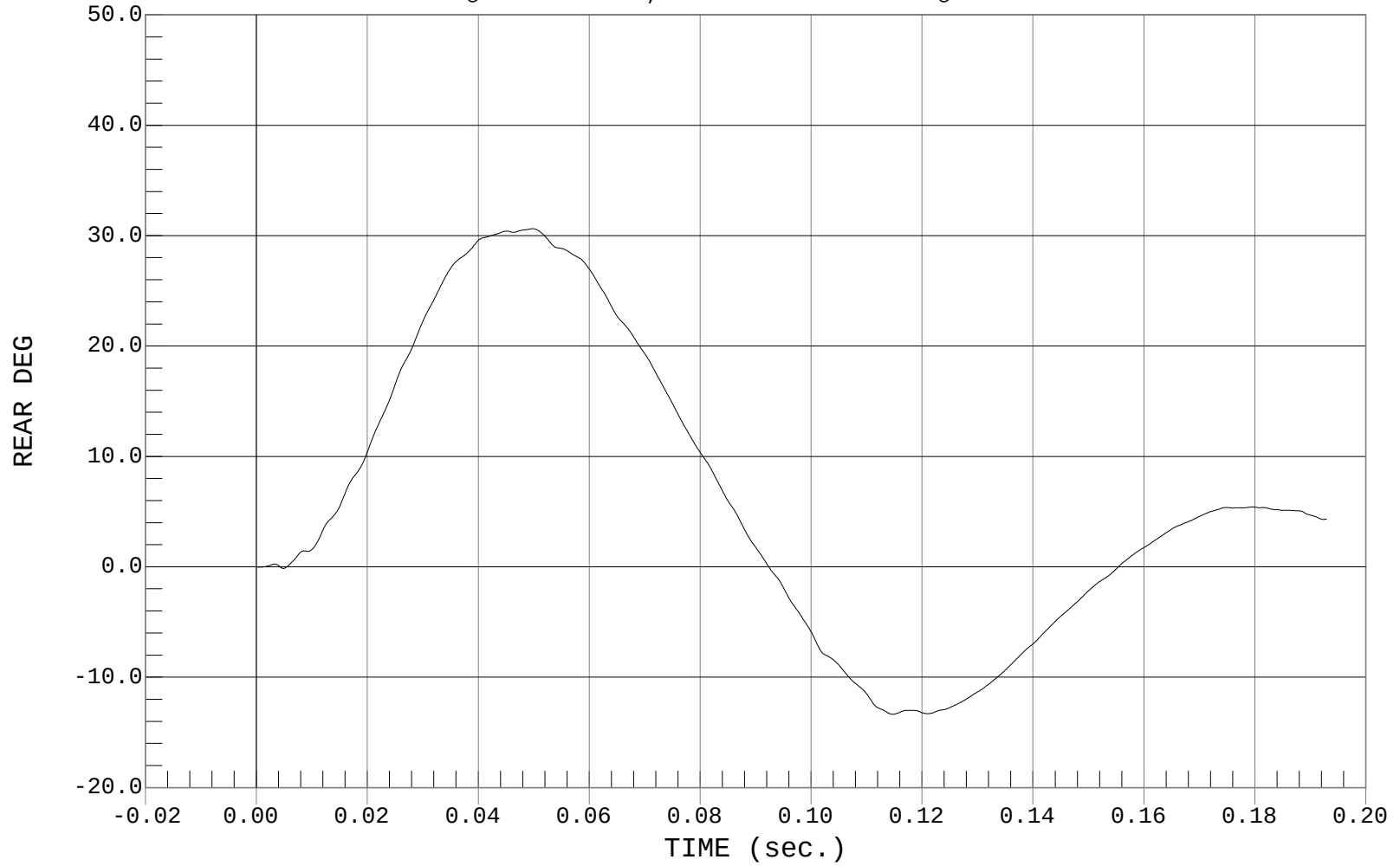
THETA B

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 10-02-01
Speed: 19.88 FT/SEC, 6.06 M/SEC

— 1 REAR, D01428DT.D06

Ymin = -13.36 DEG @ 0.1147 sec., Ymax = 30.62 DEG @ 0.0498 sec.



MGA RESEARCH CORPORATION
PELVIS TEST
EUROSID 2 DUMMY

Date: 10/4/01
Dummy Serial Number: 009
Test Number: D011429

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.3
Relative Humidity (%)	10 – 70	49
Pendulum Speed	6.20 – 6.30 m/s	6.26
Maximum Impactor Force	9.80 – 12.20 kN	11.01
Time of Max. Impactor Force	9.50 – 12.50 ms	11.20
Maximum Pubic Force	2.65 – 3.35 kN	3.32
Time of Max. Pubic Force	10.00 – 13.00 ms	11.60

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



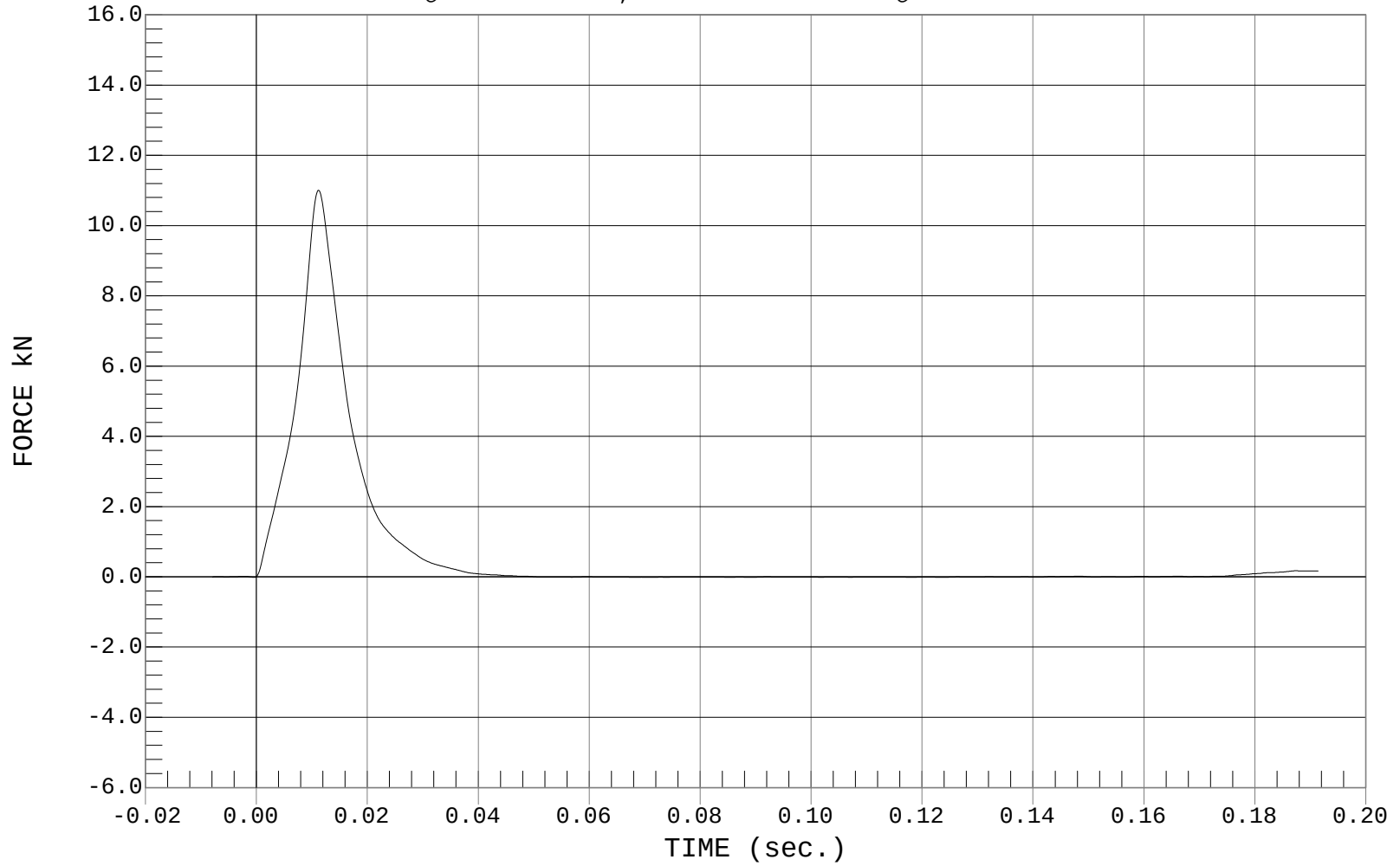
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #009

Test Date: 10-04-01
Speed: 20.53 FT/SEC, 6.26 M/SEC

— 1 FORCE, D01429FT.F01

Ymin = -.02 kN @ -0.0004 sec., Ymax = 11.01 kN @ 0.0112 sec.





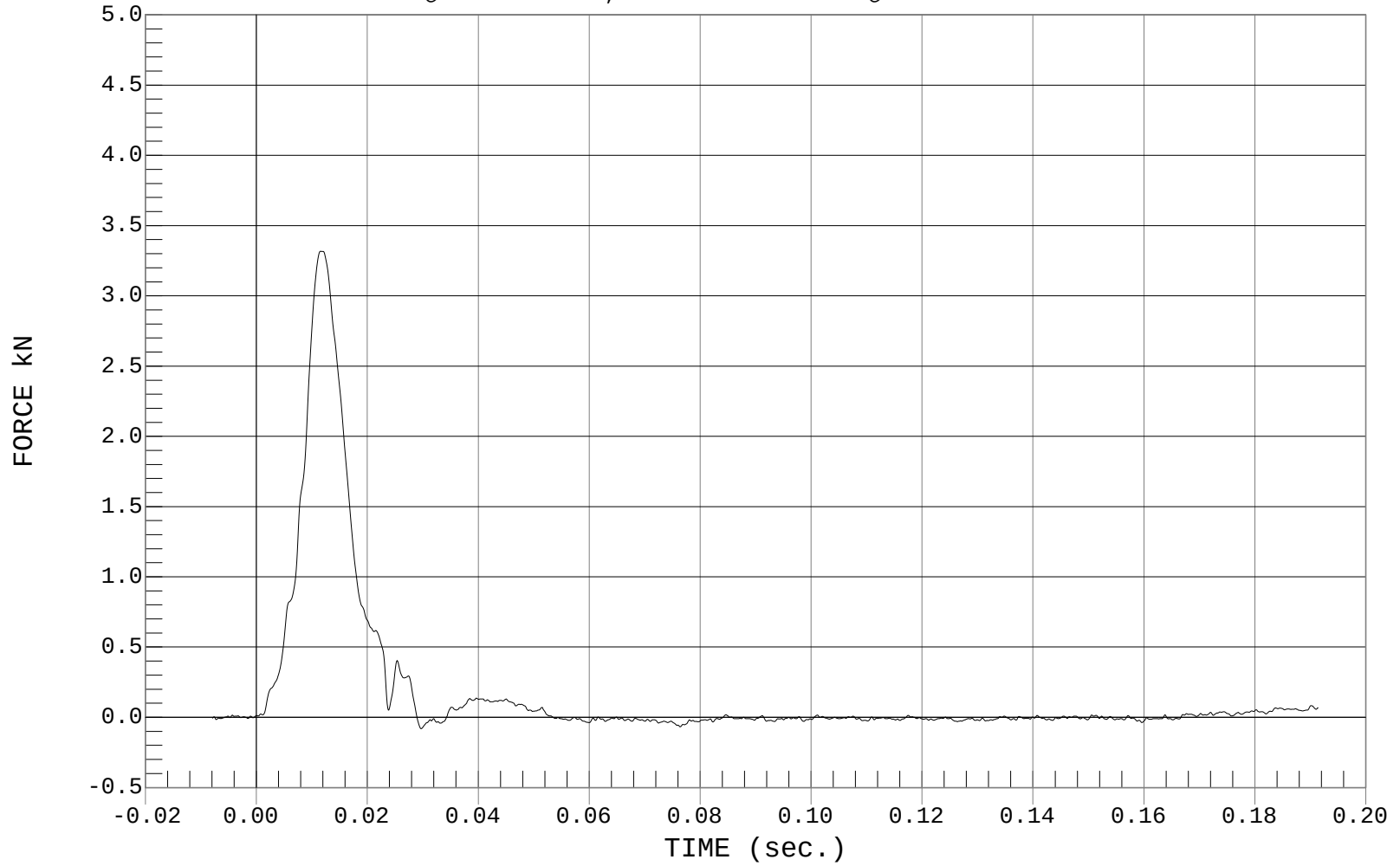
PUBIC FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #009

Test Date: 10-04-01
Speed: 20.53 FT/SEC, 6.26 M/SEC

— 1 FORCE, D01429FT.F02

Ymin = -.08 kN @ 0.0297 sec., Ymax = 3.32 kN @ 0.0116 sec.



CERTIFICATION DATA

Dummy Serial Number: 010

Calibration Test Results Summary

Dummy Serial Number: 010

Pre-Test Calibration

Head Drop Test:	The head passed all drop test requirements.
Neck Pendulum Test:	The neck passed all impact test requirements.
Shoulder Impact Test:	The shoulder passed all impact test requirements.
Rib Tests:	All ribs passed all impact test requirements.
Abdomen Test:	The abdomen passed all impact test requirements.
Lumbar Spine Test:	The lumbar spine passed all impact test requirements.
Pelvis Test:	The pelvis passed all impact test requirements.

MGA RESEARCH CORPORATION
HEAD DROP TEST
EUROSID 2 DUMMY

Date: 10/3/01
Dummy Serial Number: 010
Test Number: D011431

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.2
Relative Humidity (%)	10 – 70	46
Peak Resultant Acceleration	100 – 150 g's	144
Time of Max. Res. Acceleration		27.1 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



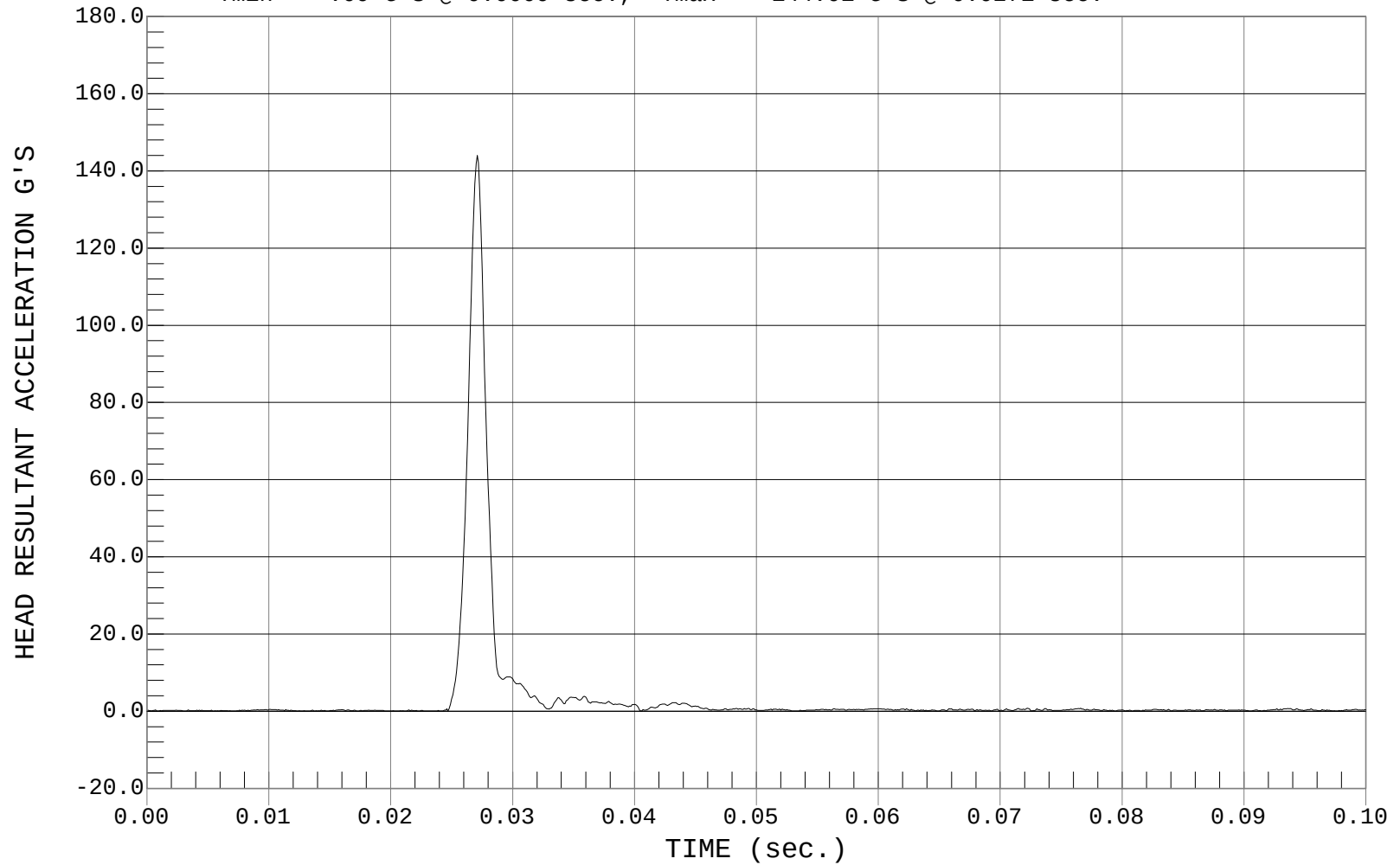
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #010

Test Date: 10-03-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01431AV.A01

Ymin = .09 G'S @ 0.0009 sec., Ymax = 144.01 G'S @ 0.0271 sec.



MGA RESEARCH CORPORATION
NECK PENDULUM TEST
EUROSID 2 DUMMY

Date: 10/2/01
Dummy Serial Number: 010
Test Number: D011432

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.5
Relative Humidity (%)		10 – 70	50
Pendulum Speed		3.3 - 3.5	3.4
Pendulum Deceleration	3 msec	1.25 - 1.53 m/sec	-1.32
	8 msec	1.59 - 2.04 m/sec	-1.73
	14 msec	3.20 - 3.85 m/sec	-3.37
Maximum Flexion Angle		49.0 – 59.0 deg	57.9
Time of Max. Flexion Angle		54.0 – 66.0 ms	57.5
Maximum Angle Theta (A)		32.0 – 37.0 deg	35.2
Time of Max. Theta (A)		53.0 – 63.0 ms	57.5
Maximum Angle Theta (B)		30.26 – 32.76 deg	30.94
Time of Max. Theta (B)		54.0 – 64.0 ms	58.5

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

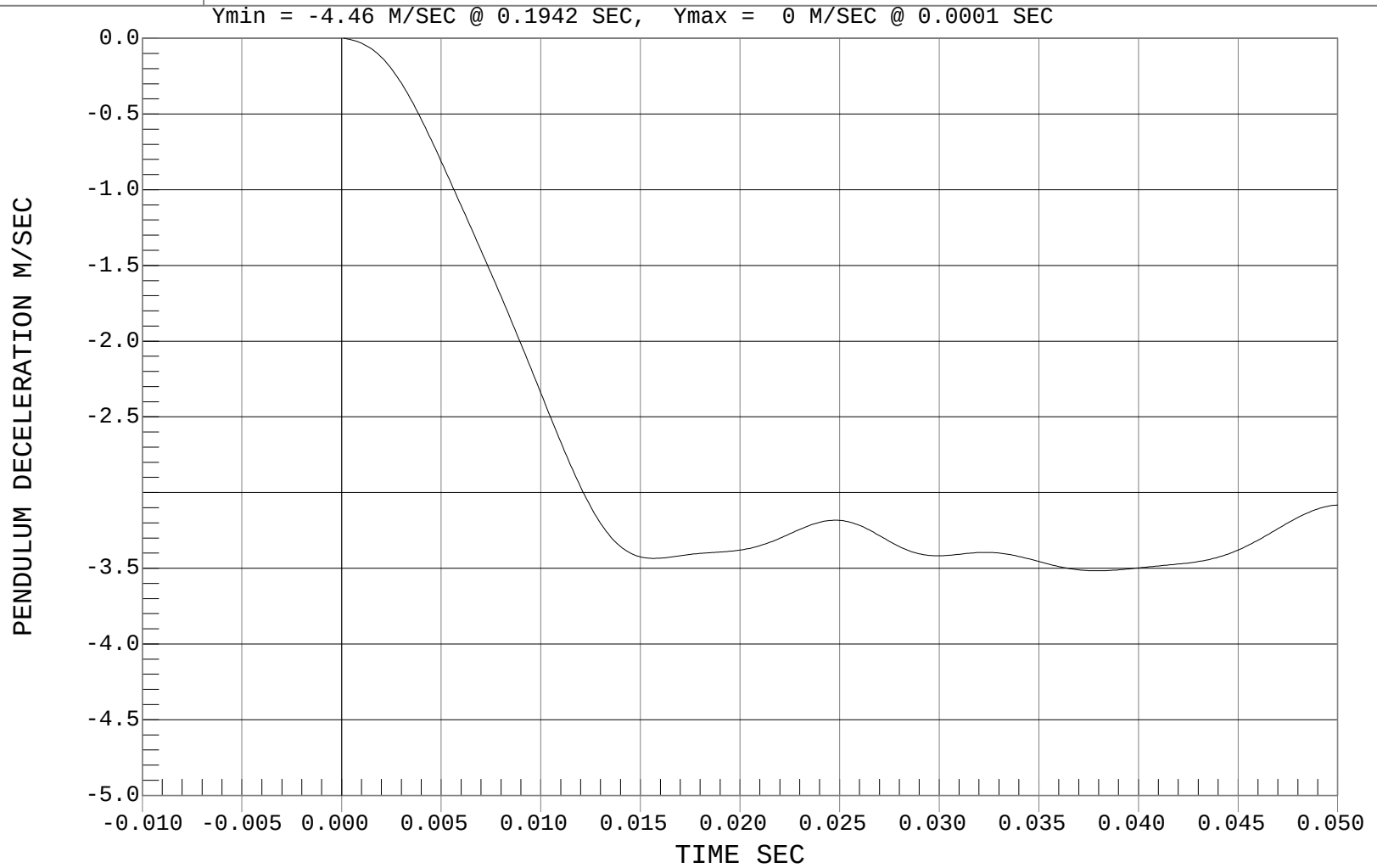


PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #010

Test Date: 10-02-01
Speed: 11.12 FT/SEC, 3.39 M/SEC

— 1 PENDULUM DECELERATION, D01432AI.V04





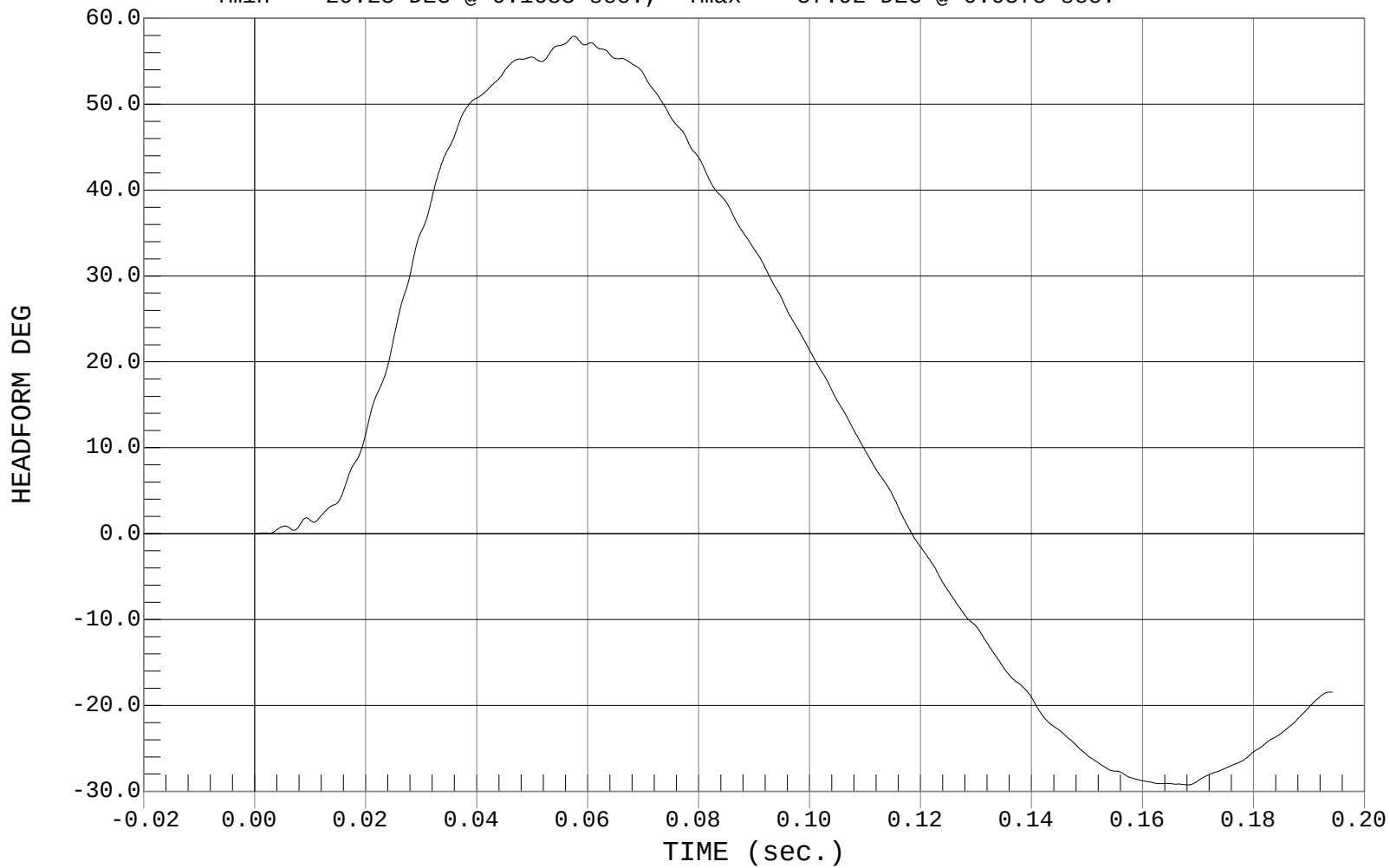
FLEXION ANGLE

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #010

Test Date: 10-02-01
Speed: 11.12 FT/SEC, 3.39 M/SEC

— 1 HEADFORM, D01432DT.D08

Ymin = -29.25 DEG @ 0.1683 sec., Ymax = 57.92 DEG @ 0.0575 sec.





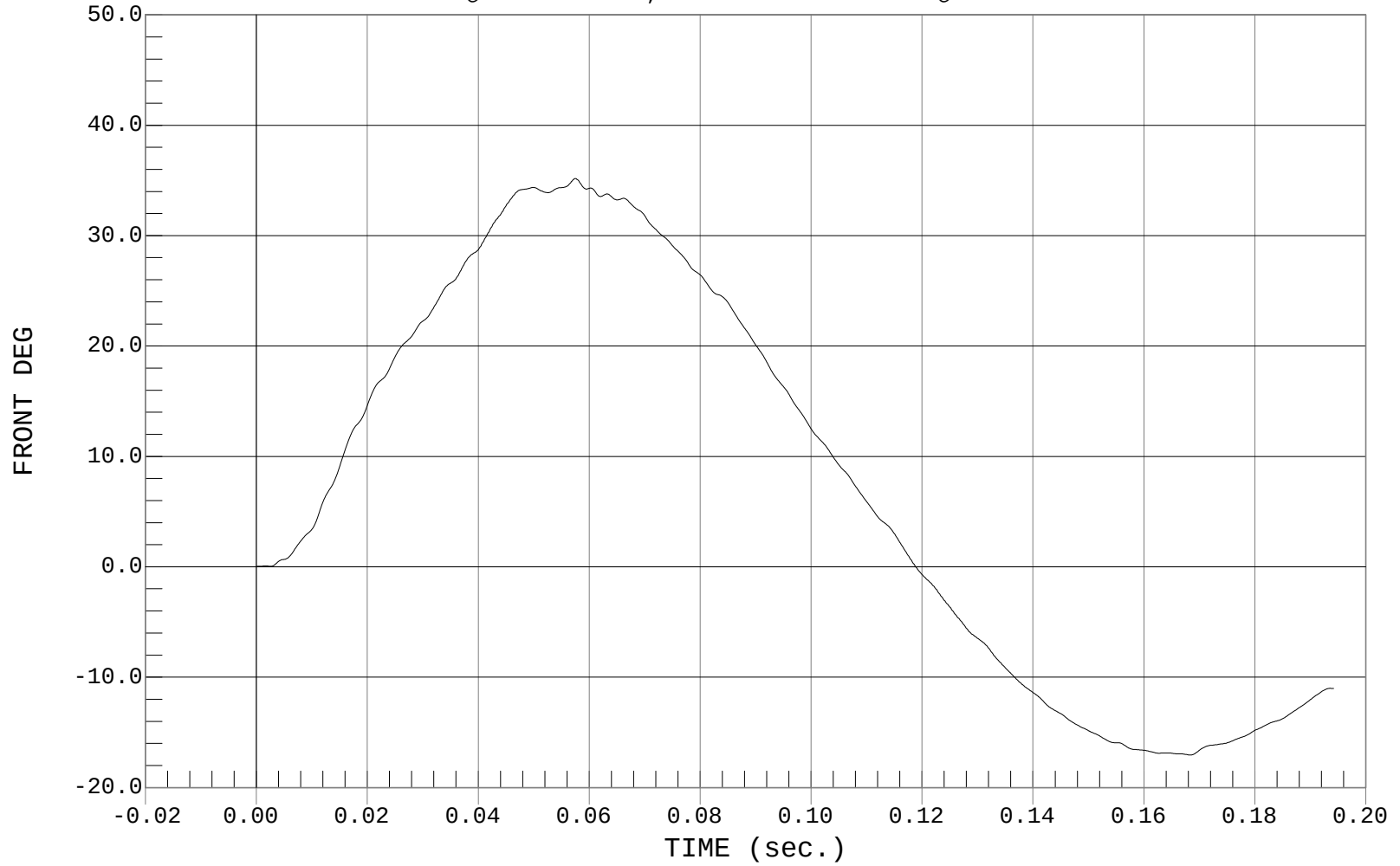
THETA A

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #010

Test Date: 10-02-01
Speed: 11.12 FT/SEC, 3.39 M/SEC

— 1 FRONT, D01432DT.D05

Ymin = -17.06 DEG @ 0.1684 sec., Ymax = 35.16 DEG @ 0.0575 sec.





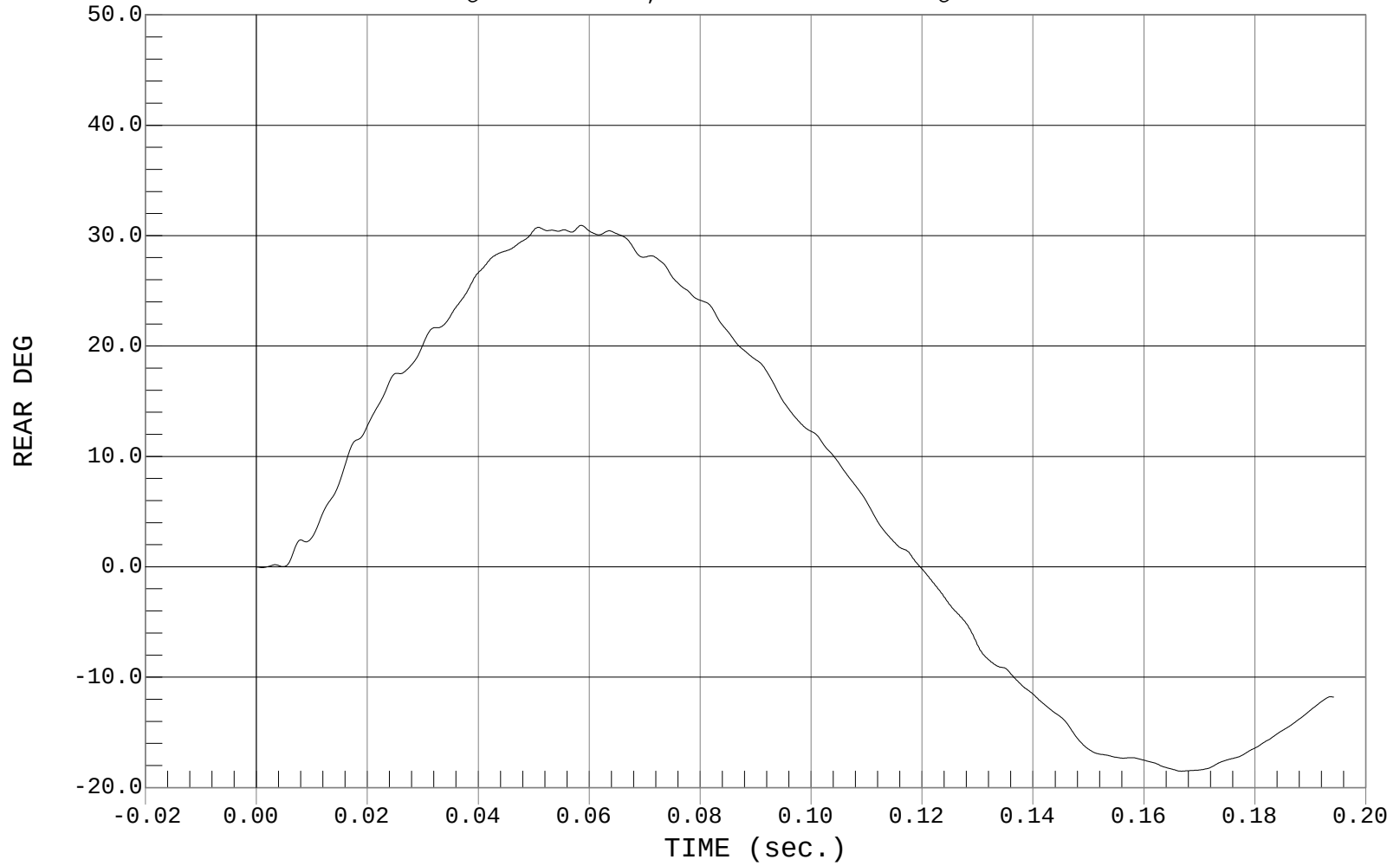
THETA B

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #010

Test Date: 10-02-01
Speed: 11.12 FT/SEC, 3.39 M/SEC

— 1 REAR, D01432DT.D06

Ymin = -18.52 DEG @ 0.1667 sec., Ymax = 30.94 DEG @ 0.0585 sec.



MGA RESEARCH CORPORATION
SHOULDER IMPACT TEST
EUROSID 2 DUMMY

Date: 10/4/01
Dummy Serial Number: 010
Test Number: D011433

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.2
Relative Humidity (%)	10 – 70	49
Pendulum Speed	4.2 – 4.4 m/s	4.3
Max. Resultant Acceleration	7.5 – 10.5 g's	9.7
Time of Max. Pendulum Acceleration		21.6 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



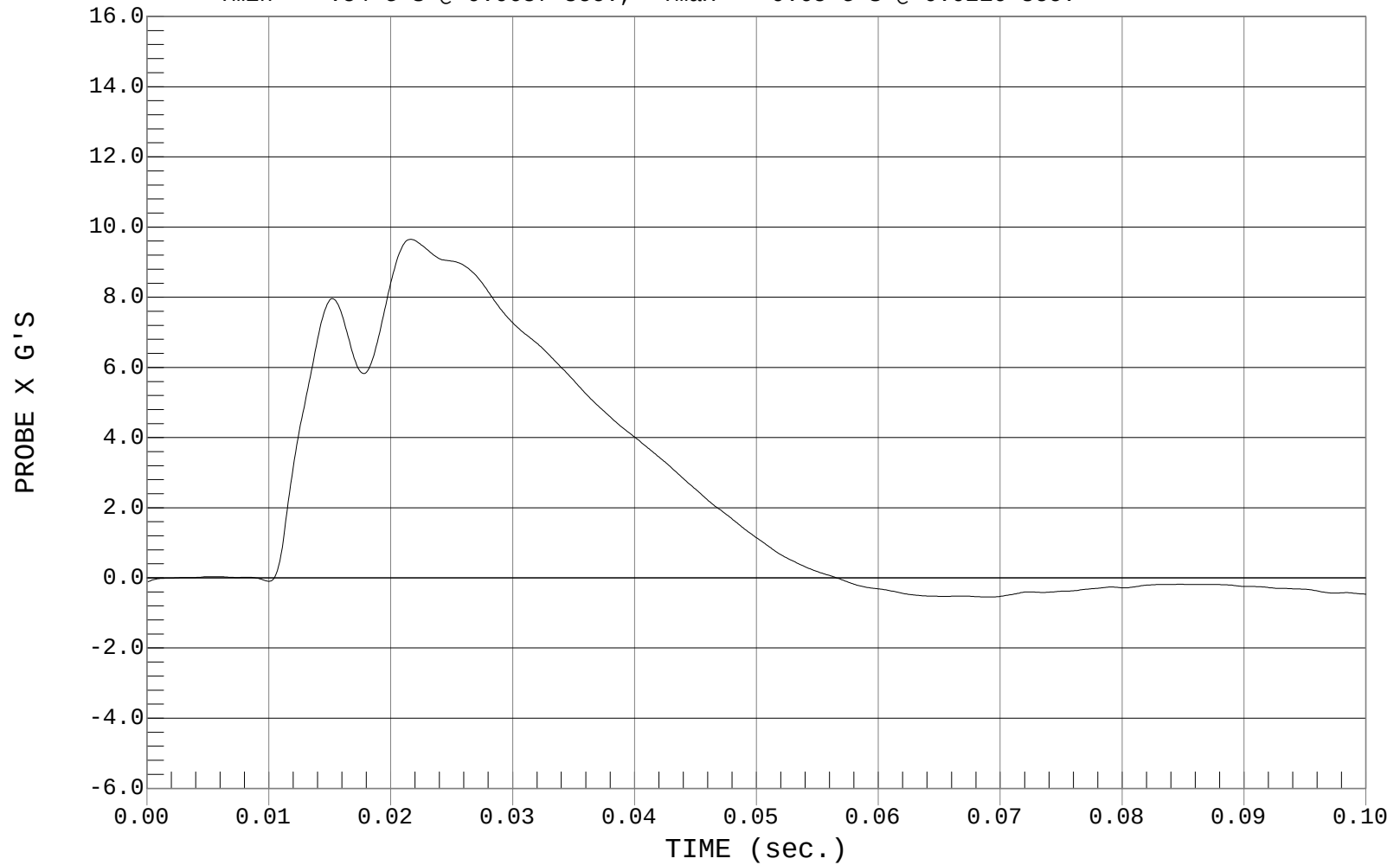
SHOULDER ACCELERATION

Test Desc.: Dummy Calibration - Shoulder Impact
Component: Dummy #010

Test Date: 10-04-01
Speed: 14.01 FT/SEC, 4.27 M/SEC

— 1 PROBE X, D01433AF.A01

Ymin = -.54 G'S @ 0.0687 sec., Ymax = 9.65 G'S @ 0.0216 sec.



MGA RESEARCH CORPORATION
UPPER/MIDDLE/LOWER RIB TESTS
SIDE IMPACT DUMMY (SID)

Date: 10/3/01
Dummy Serial Number: 010
Test Number: D011434/5/6

UPPER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.1
Relative Humidity (%)	10 – 70	49
Displacement at 2 m/s	23.5 – 27.5 mm	26.7
Displacement at 3 m/s	36.0 – 40.0 mm	39.1
Displacement at 4 m/s	46.0 – 51.0 mm	50.9

MIDDLE RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.2
Relative Humidity (%)	10 – 70	49
Displacement at 2 m/s	23.5 – 27.5 mm	25.5
Displacement at 3 m/s	36.0 – 40.0 mm	37.9
Displacement at 4 m/s	46.0 – 51.0 mm	49.9

LOWER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.2
Relative Humidity (%)	10 – 70	51
Displacement at 2 m/s	23.5 – 27.5 mm	24.4
Displacement at 3 m/s	36.0 – 40.0 mm	37.5
Displacement at 4 m/s	46.0 – 51.0 mm	49.4

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



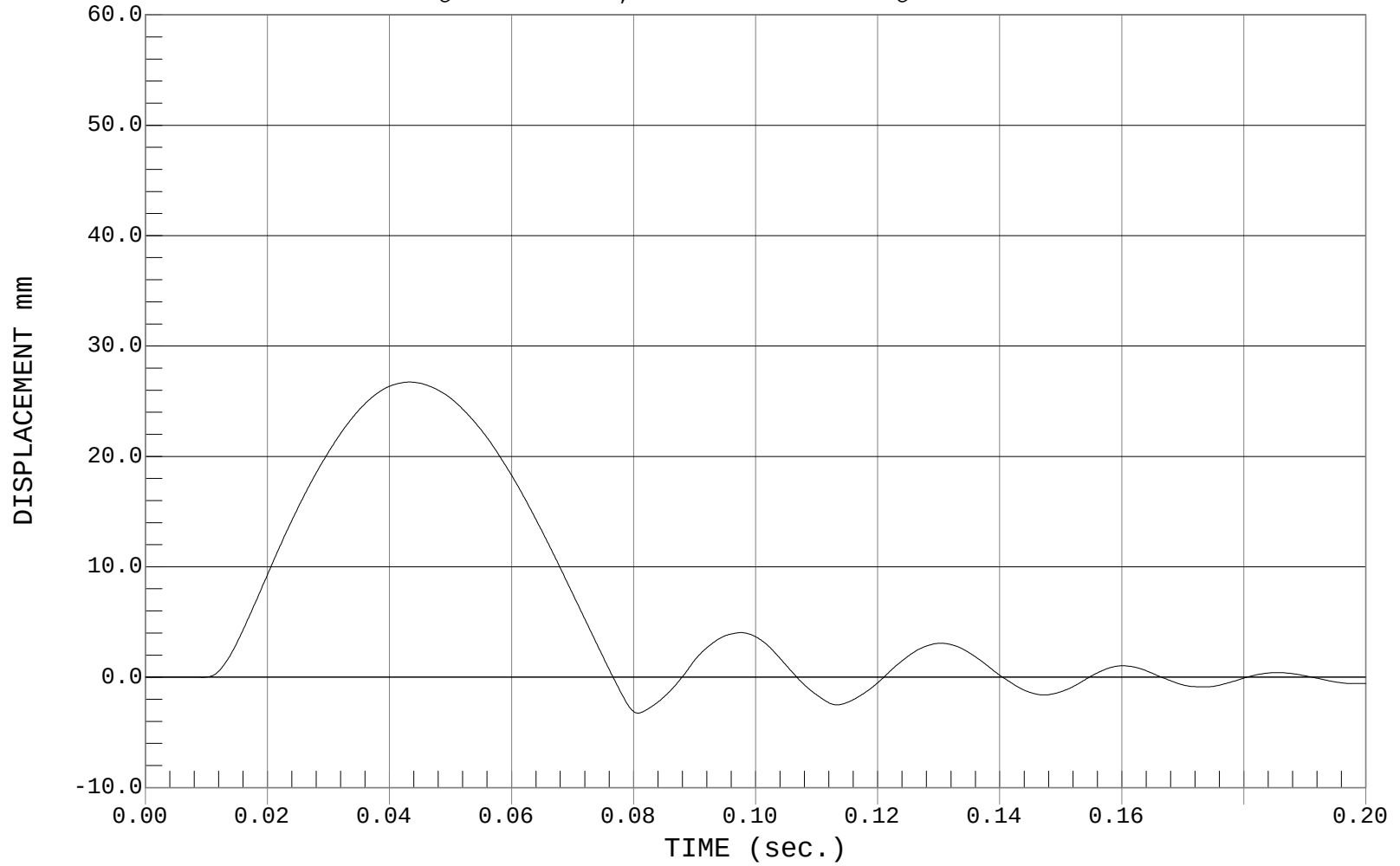
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

1 DISPLACEMENT, D01434DF.D05

Ymin = -3.26 mm @ 0.0807 sec., Ymax = 26.74 mm @ 0.0433 sec.





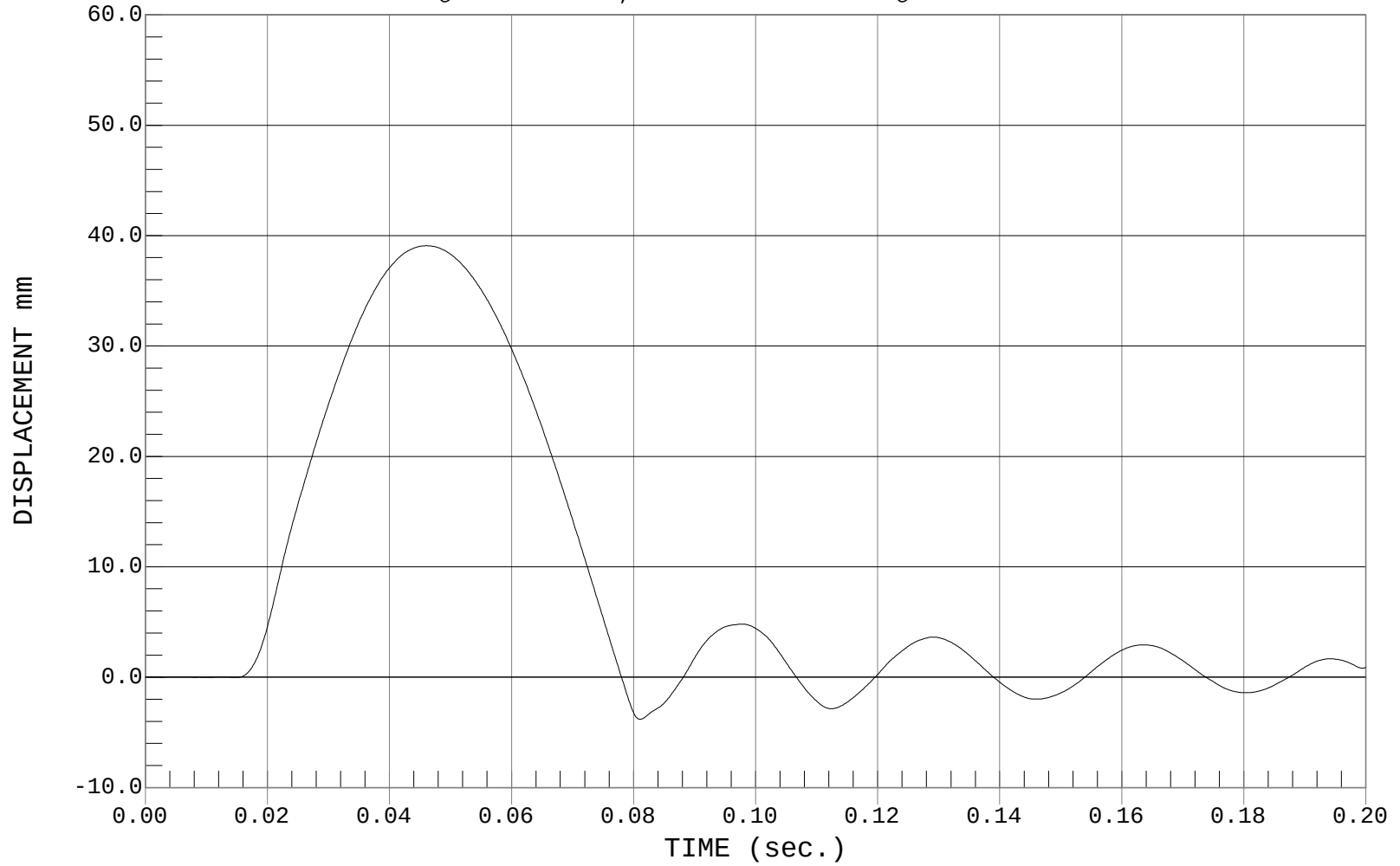
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01434DF.D06

Ymin = -3.82 mm @ 0.0811 sec., Ymax = 39.09 mm @ 0.0460 sec.





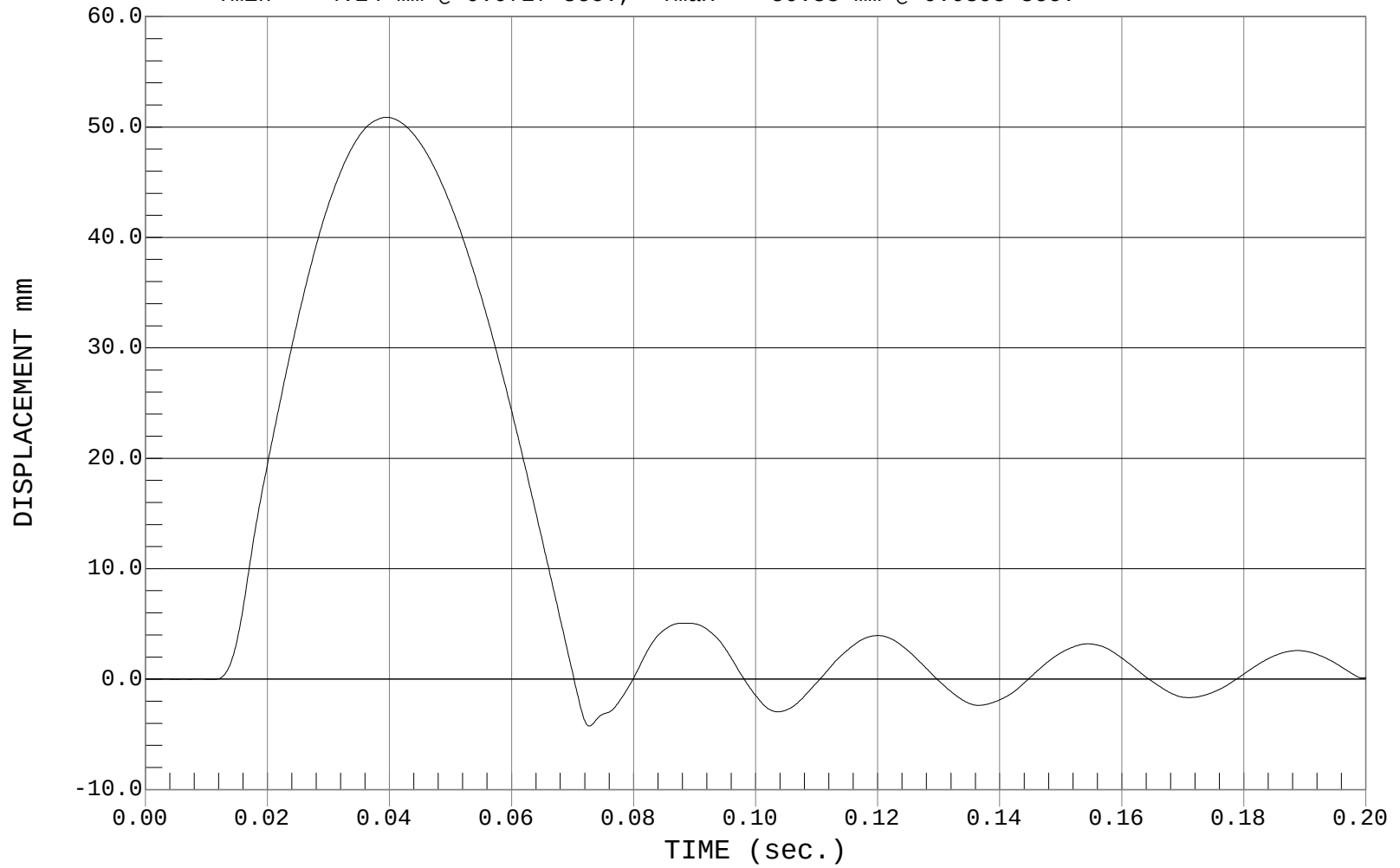
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01434DF.D07

Ymin = -4.24 mm @ 0.0727 sec., Ymax = 50.88 mm @ 0.0395 sec.





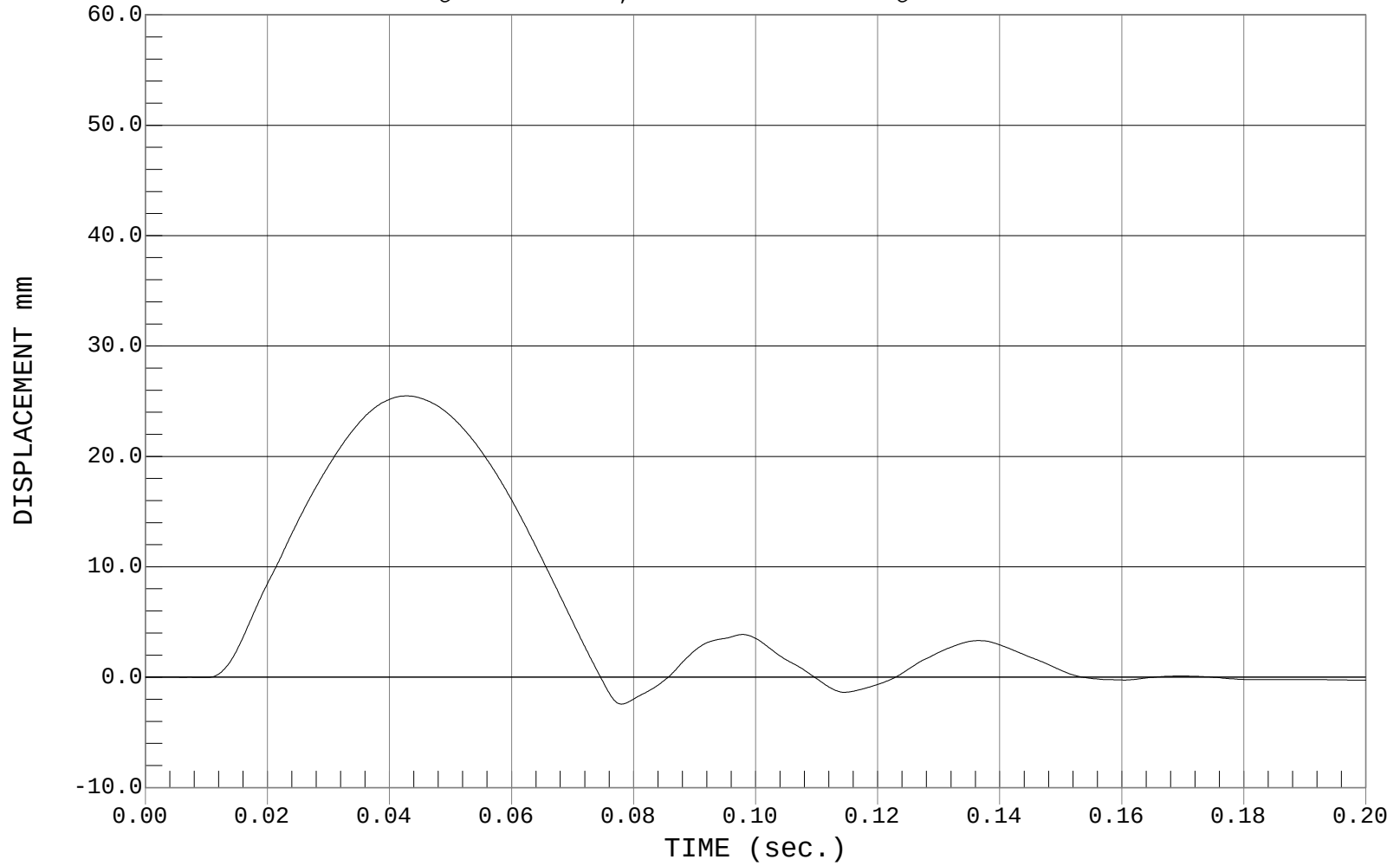
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

1 DISPLACEMENT, D01435DF.D05

Ymin = -2.44 mm @ 0.0780 sec., Ymax = 25.48 mm @ 0.0428 sec.





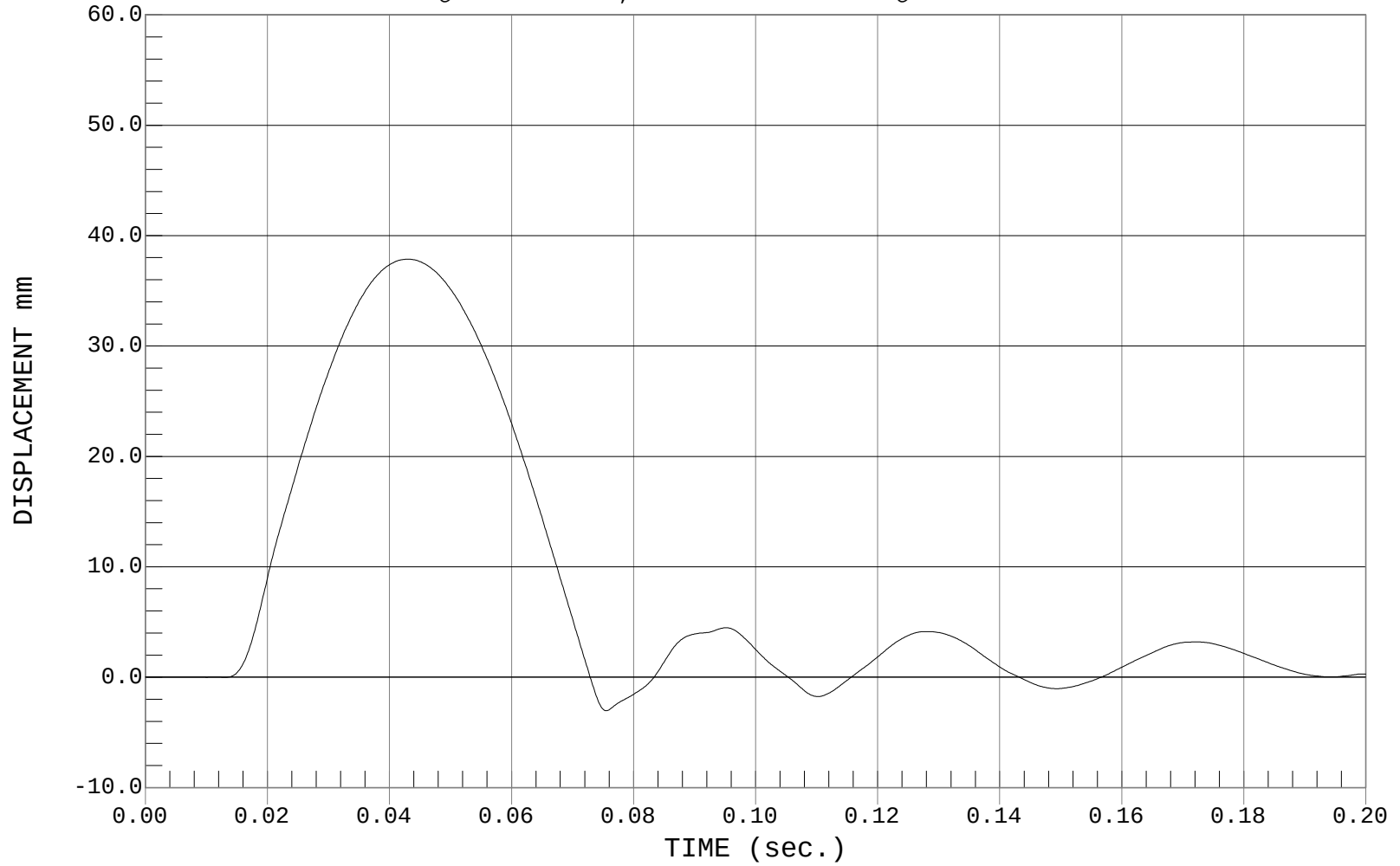
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01435DF.D06

Ymin = -3.04 mm @ 0.0755 sec., Ymax = 37.86 mm @ 0.0431 sec.





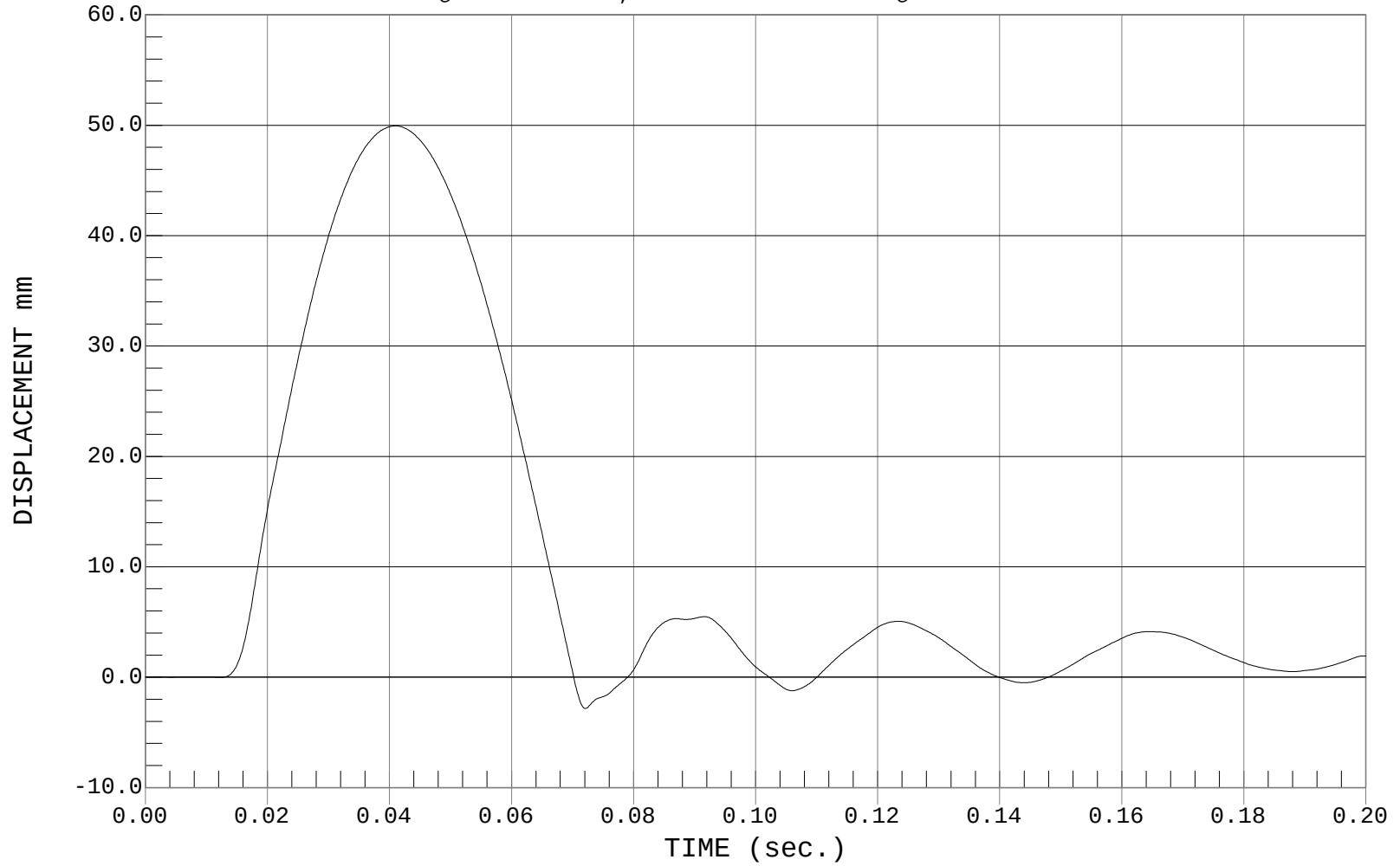
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01435DF.D07

Ymin = -2.83 mm @ 0.0721 sec., Ymax = 49.94 mm @ 0.0410 sec.





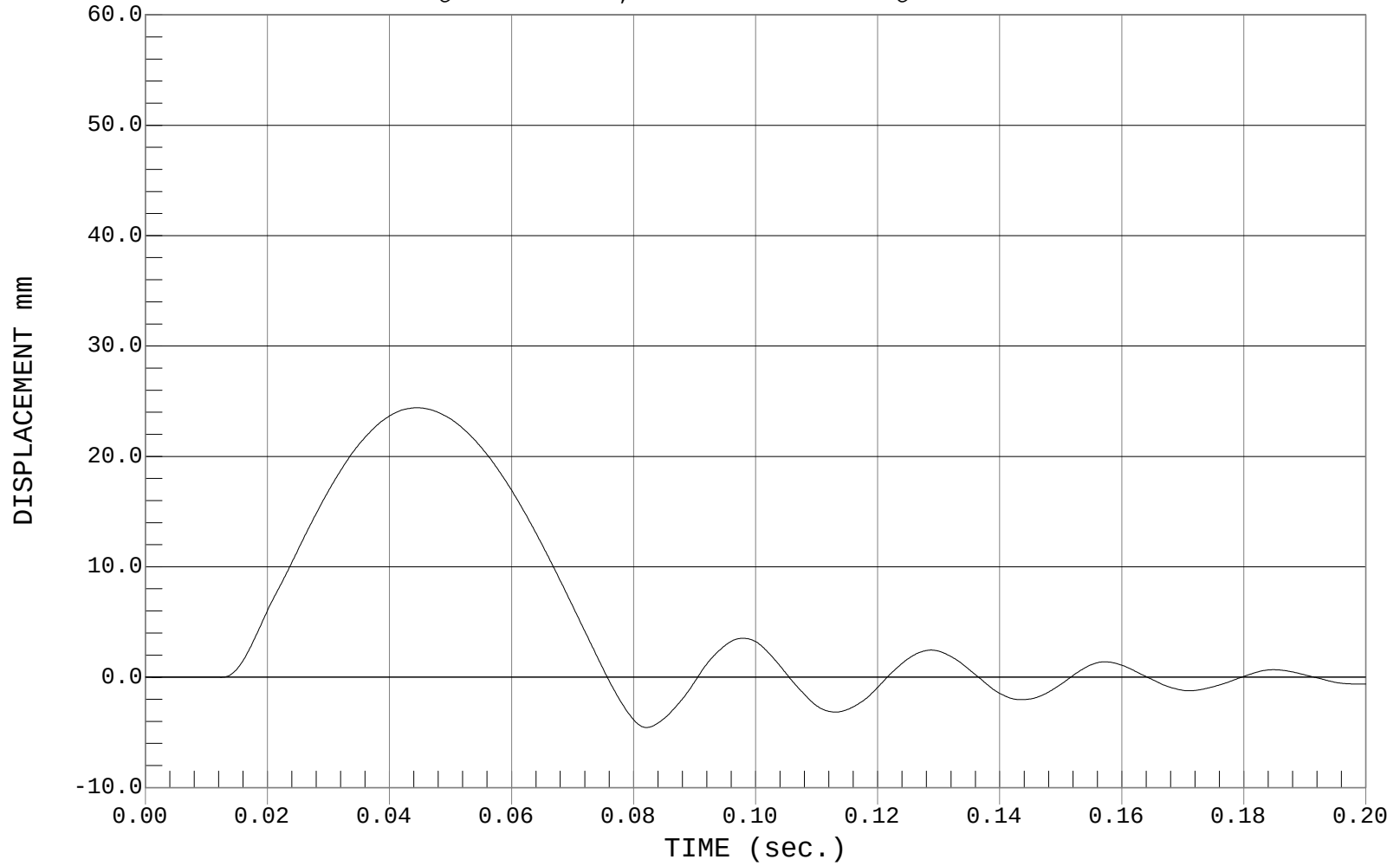
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01436DF.D05

Ymin = -4.56 mm @ 0.0821 sec., Ymax = 24.41 mm @ 0.0445 sec.





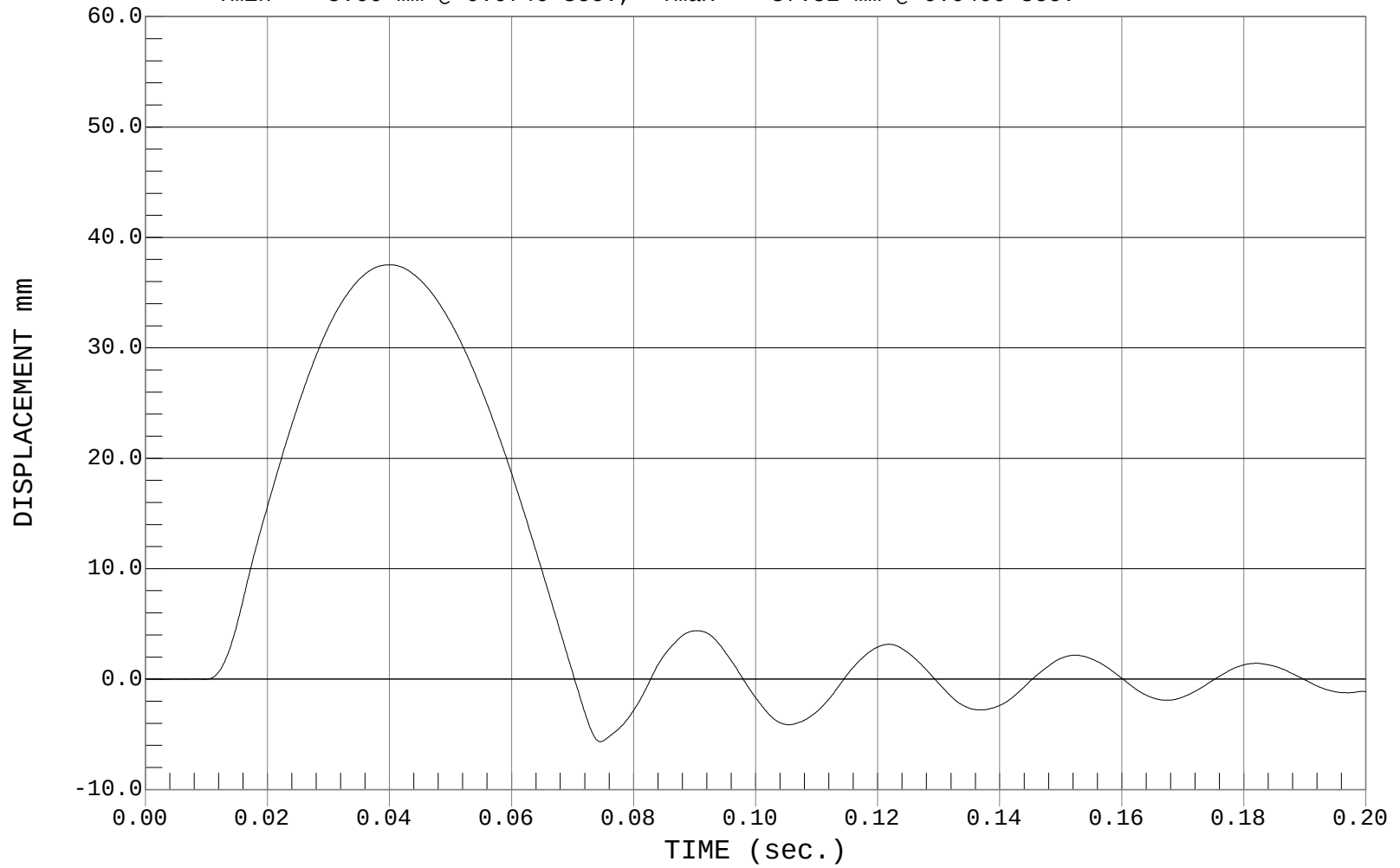
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01436DF.D06

Ymin = -5.66 mm @ 0.0746 sec., Ymax = 37.52 mm @ 0.0400 sec.





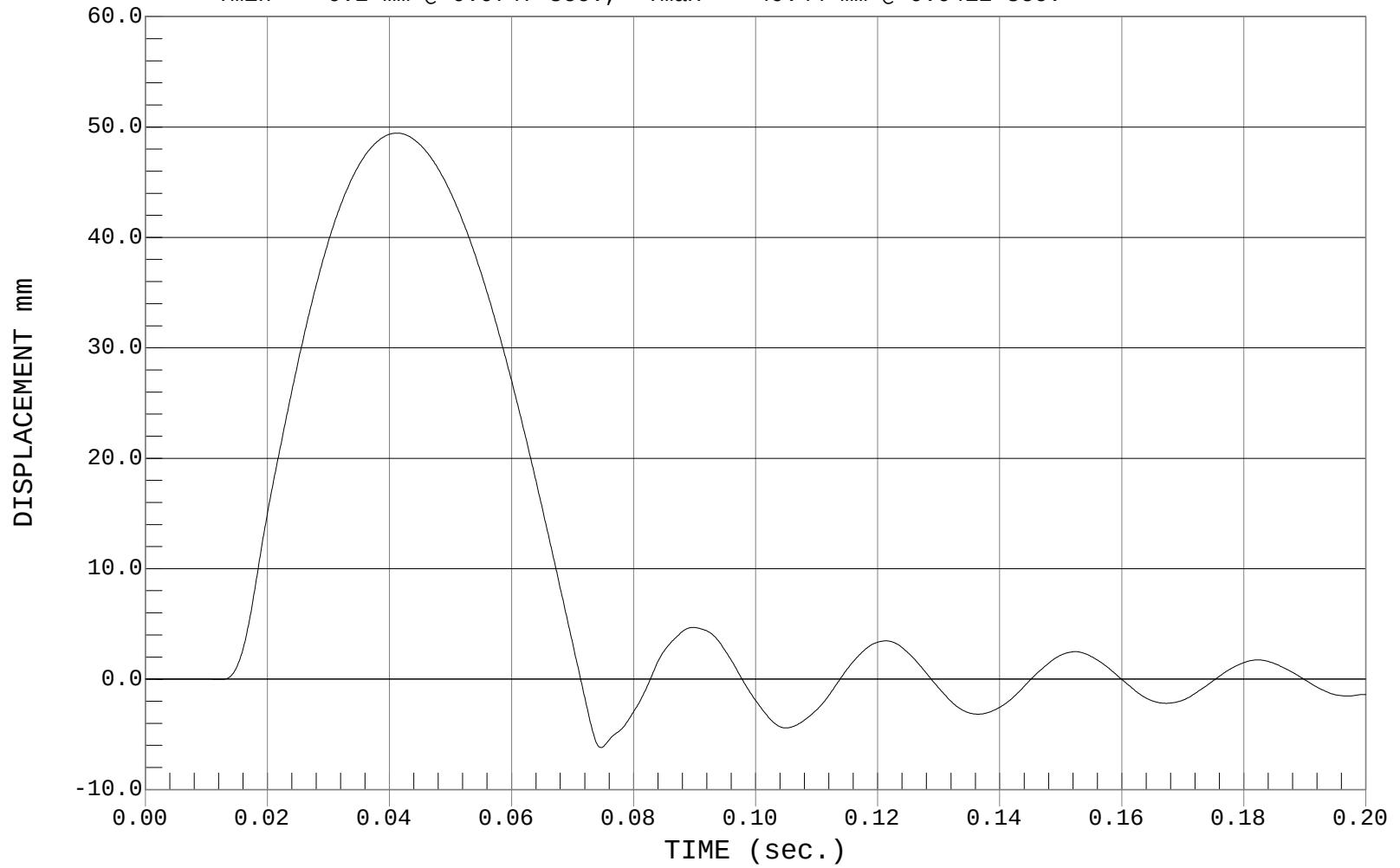
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-03-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01436DF.D07

Ymin = -6.2 mm @ 0.0747 sec., Ymax = 49.44 mm @ 0.0412 sec.



MGA RESEARCH CORPORATION
ABDOMEN TEST
EUROSID 2 DUMMY

Date: 10/4/01
Dummy Serial Number: 010
Test Number: D011437

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.3
Relative Humidity (%)	10 – 70	50
Probe Speed (m/s)	3.90 – 4.10	4.01
Maximum Impact Force	4.00 – 4.80 kN	4.75
Time of Maximum Force	10.60 – 13.00 ms	12.30
Maximum Total Abdomen Force	2.20 – 2.70 kN	2.37
Time of Max. Total Force	10.00 – 12.30 ms	12.10

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



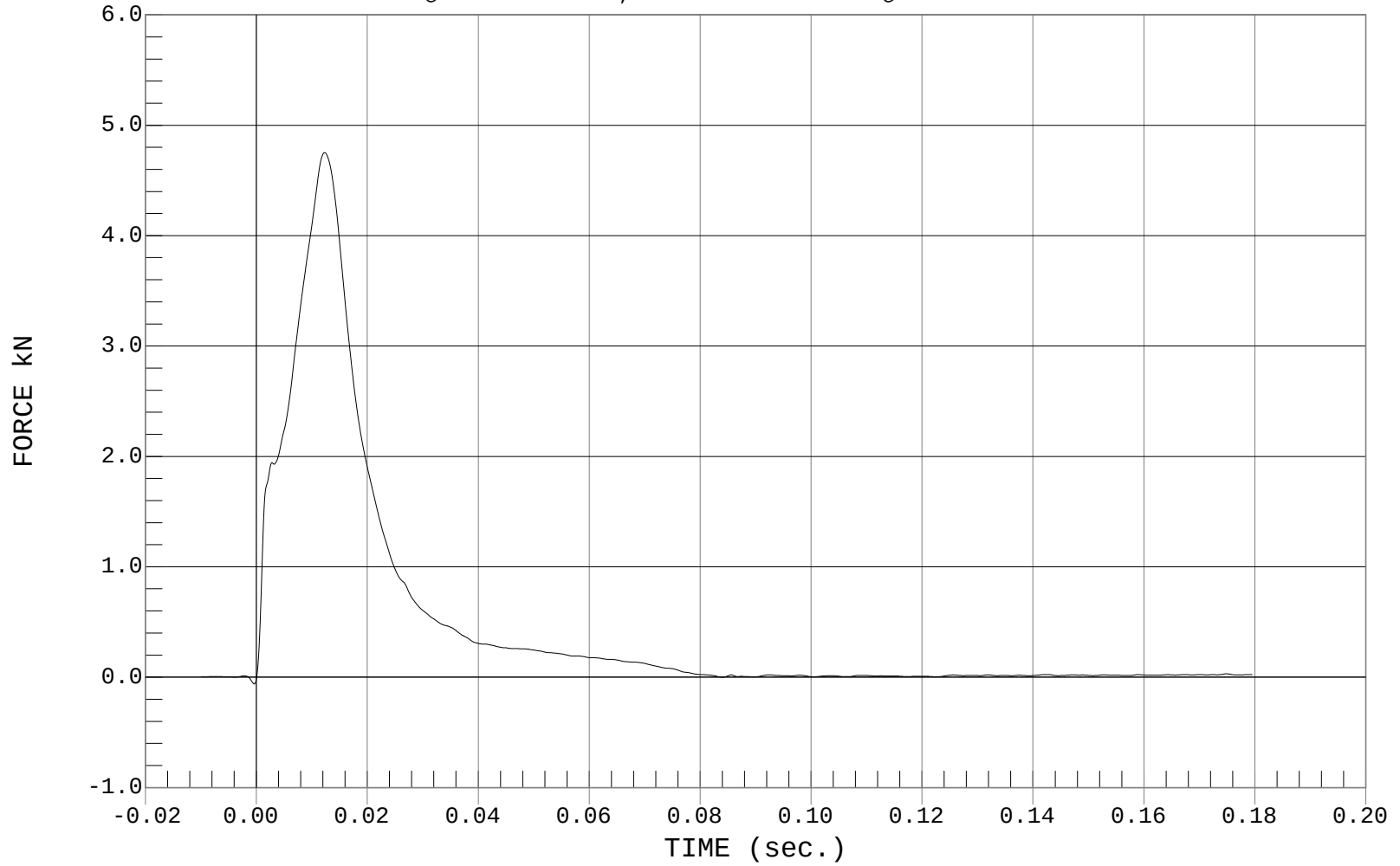
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Abdomen Impact
Component: Dummy #010

Test Date: 10-04-01
Speed: 13.15 FT/SEC, 4.01 M/SEC

— 1 FORCE, D01437FT.F01

Ymin = -.06 kN @ -0.0004 sec., Ymax = 4.75 kN @ 0.0123 sec.





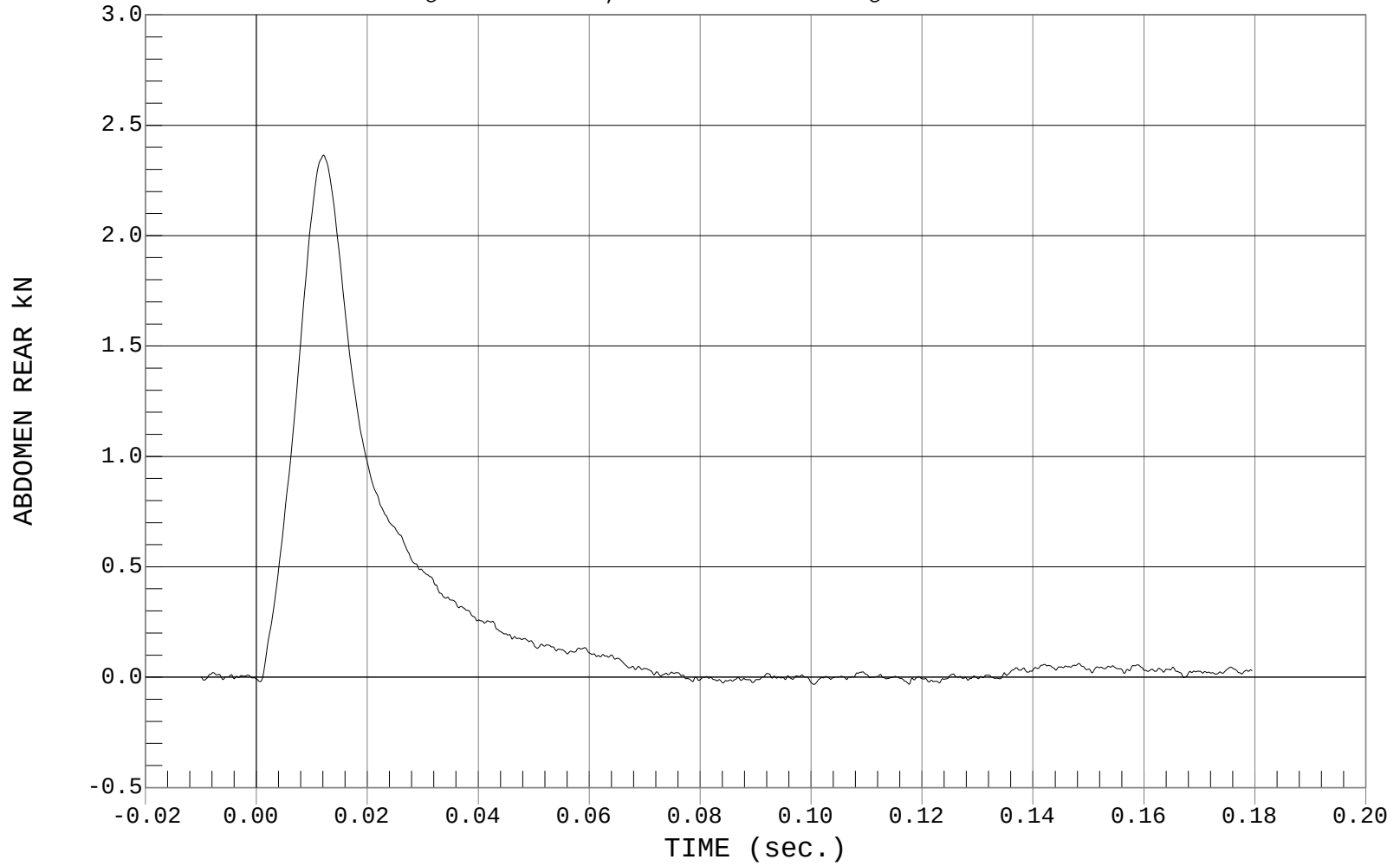
ABDOMEN FORCE

Test Desc.: Dummy Calibration - Abdomen Impact
Component: Dummy #010

Test Date: 10-04-01
Speed: 13.15 FT/SEC, 4.01 M/SEC

— 1 ABDOMEN REAR, D01437FT.F02

Ymin = -.03 kN @ 0.1177 sec., Ymax = 2.37 kN @ 0.0121 sec.



MGA RESEARCH CORPORATION
LUMBAR SPINE TEST
EUROSID 2 DUMMY

Date: 10/2/01
Dummy Serial Number: 010
Test Number: D011438

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.4
Relative Humidity (%)		10 – 70	52
Pendulum Speed		5.95 – 6.15	6.01
Pendulum Deceleration	10 msec	2.46 - 1.59 m/sec	-2.04
	20 msec	5.25 - 4.07 m/sec	-4.69
	25 msec	6.64 - 5.3 m/sec	-5.87
	30 msec	≥ -6.5 m/sec	-6.20
Maximum Flexion Angle		45.0 – 55.0 deg	51.4
Time of Max. Flexion Angle		39.0 – 53.0 ms	48.9
Maximum Angle Theta (A)		31.0 – 35.0 deg	32.7
Time of Max. Theta (A)		44.0 – 52.0 ms	48.4
Maximum Angle Theta (B)		28.16– 30.66 deg	28.8
Time of Max. Theta (B)		44.0 – 52.0 ms	50.0

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



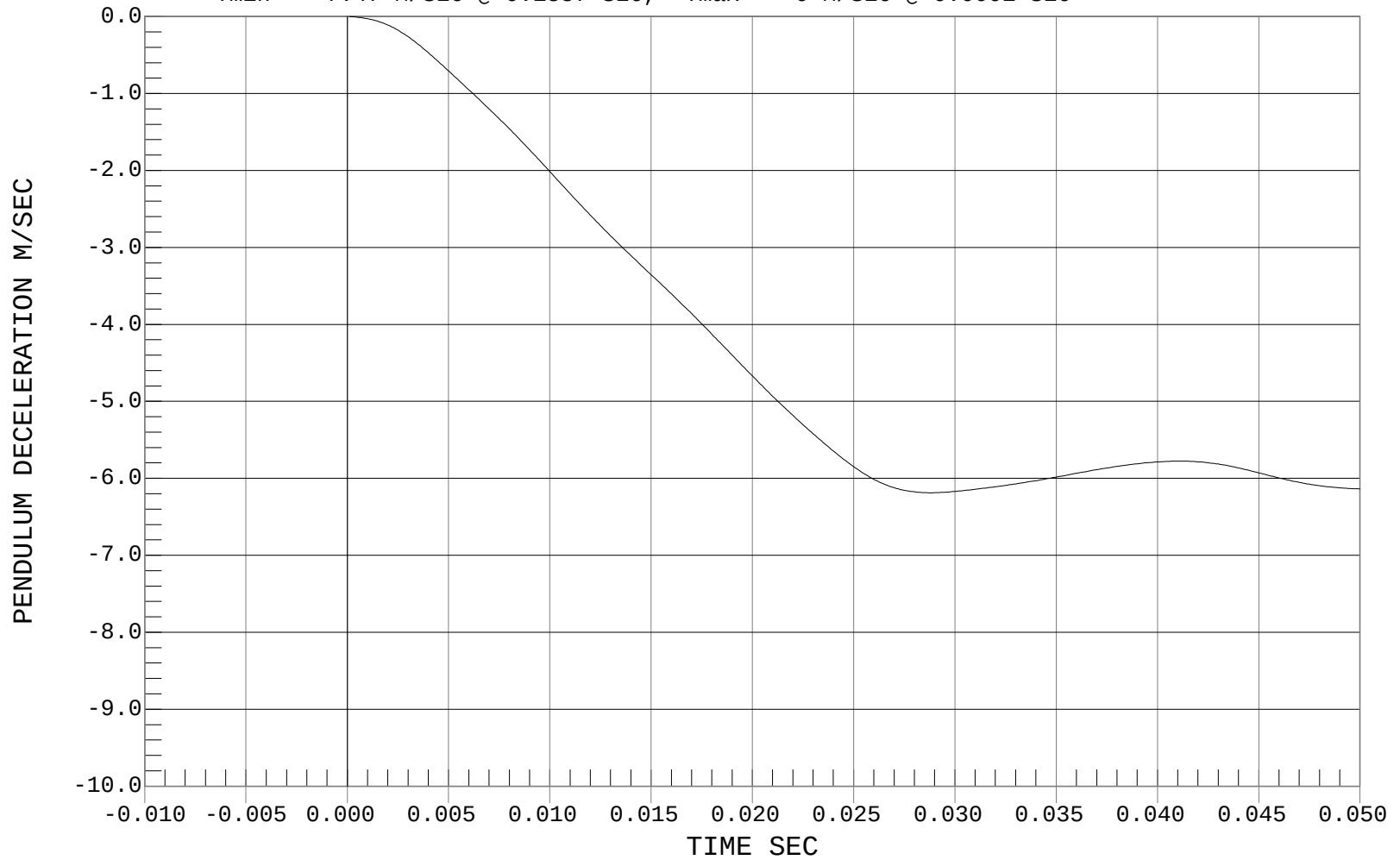
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #010

Test Date: 10-02-01
Speed: 19.72 FT/SEC, 6.01 M/SEC

— 1 PENDULUM DECELERATION, D01438AI.V04

Ymin = -7.47 M/SEC @ 0.1387 SEC, Ymax = 0 M/SEC @ 0.0001 SEC





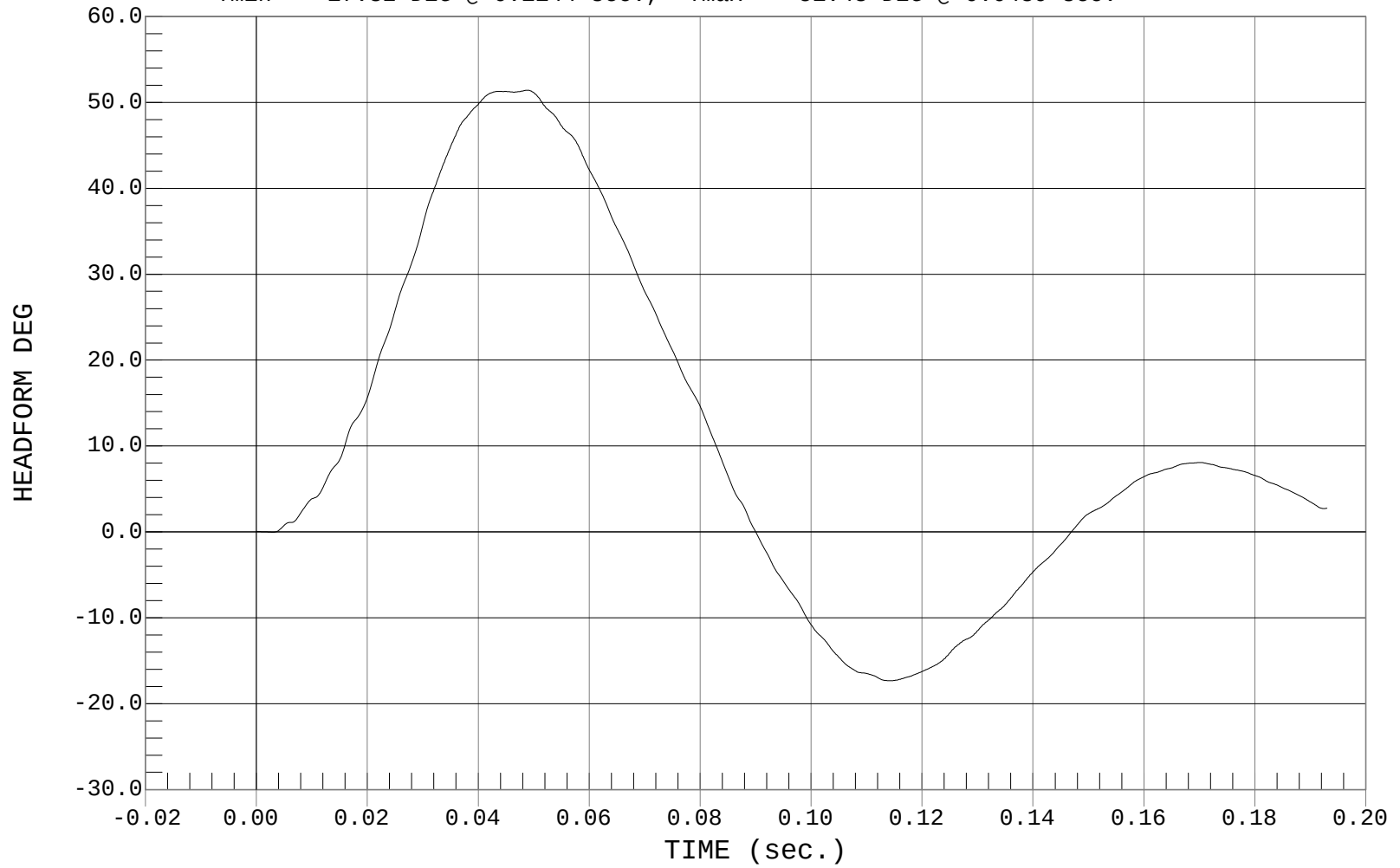
FLEXION ANGLE

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #010

Test Date: 10-02-01
Speed: 19.72 FT/SEC, 6.01 M/SEC

— 1 HEADFORM, D01438DT.D08

Ymin = -17.32 DEG @ 0.1144 sec., Ymax = 51.43 DEG @ 0.0489 sec.





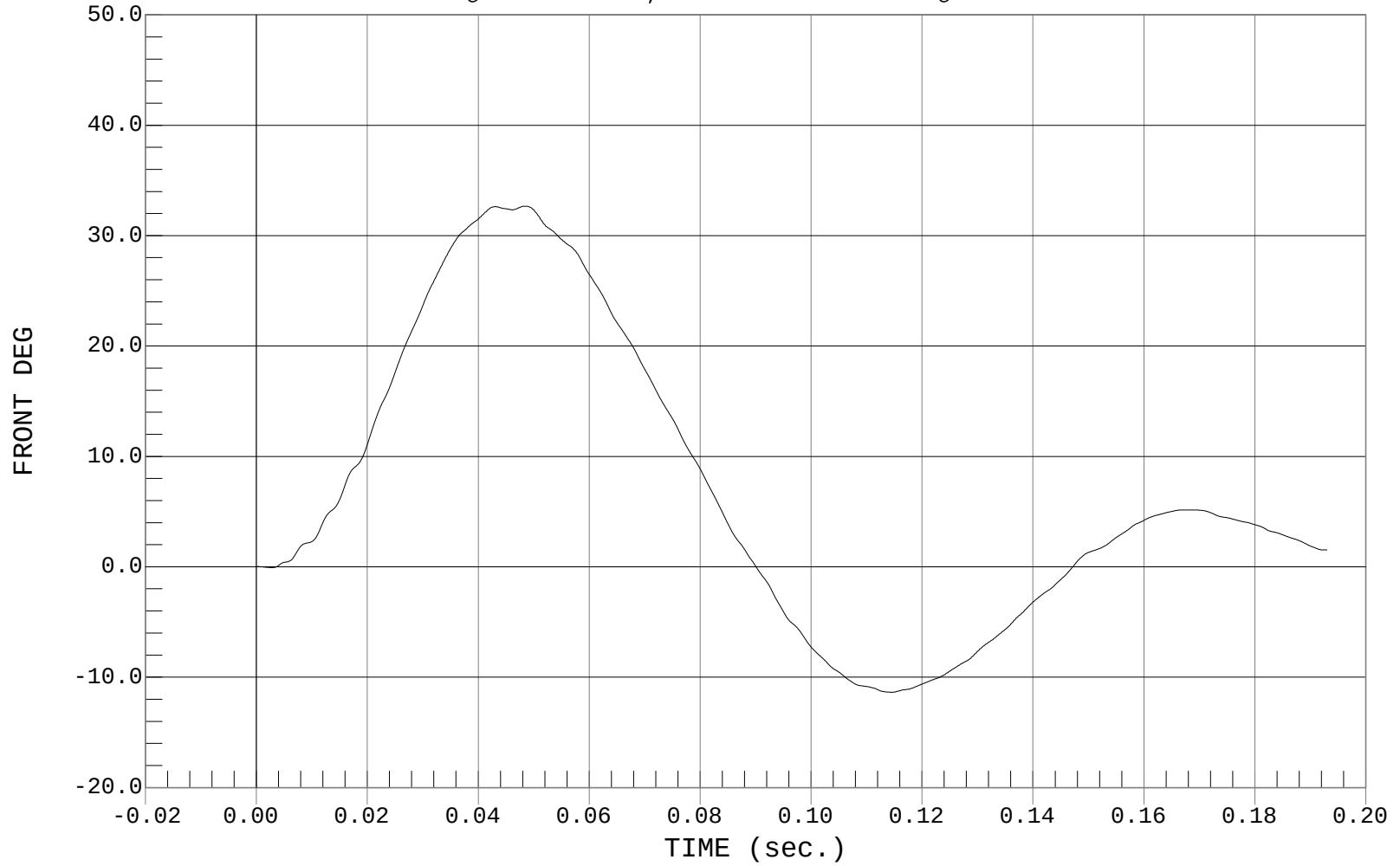
THETA A

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #010

Test Date: 10-02-01
Speed: 19.72 FT/SEC, 6.01 M/SEC

— 1 FRONT, D01438DT.D05

Ymin = -11.37 DEG @ 0.1145 sec., Ymax = 32.66 DEG @ 0.0484 sec.





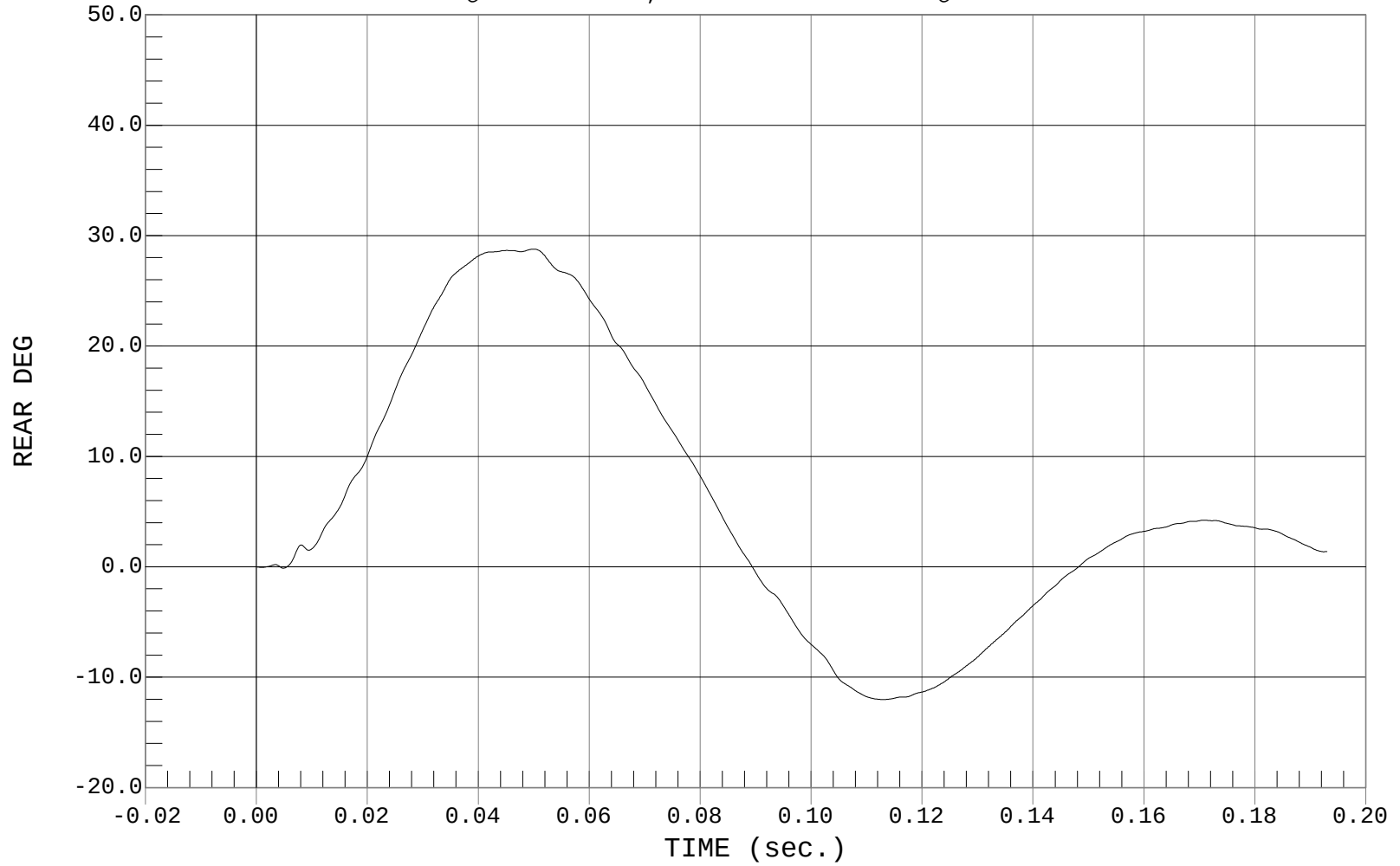
THETA B

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #010

Test Date: 10-02-01
Speed: 19.72 FT/SEC, 6.01 M/SEC

— 1 REAR, D01438DT.D06

Ymin = -12.02 DEG @ 0.1129 sec., Ymax = 28.78 DEG @ 0.0500 sec.



MGA RESEARCH CORPORATION
PELVIS TEST
EUROSID 2 DUMMY

Date: 10/4/01
Dummy Serial Number: 010
Test Number: D011439

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.2
Relative Humidity (%)	10 – 70	49
Pendulum Speed	6.20 – 6.30 m/s	6.25
Maximum Impactor Force	9.80 – 12.20 kN	11.35
Time of Max. Impactor Force	9.50 – 12.50 ms	11.00
Maximum Pubic Force	2.65 – 3.35 kN	3.32
Time of Max. Pubic Force	10.00 – 13.00 ms	11.00

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



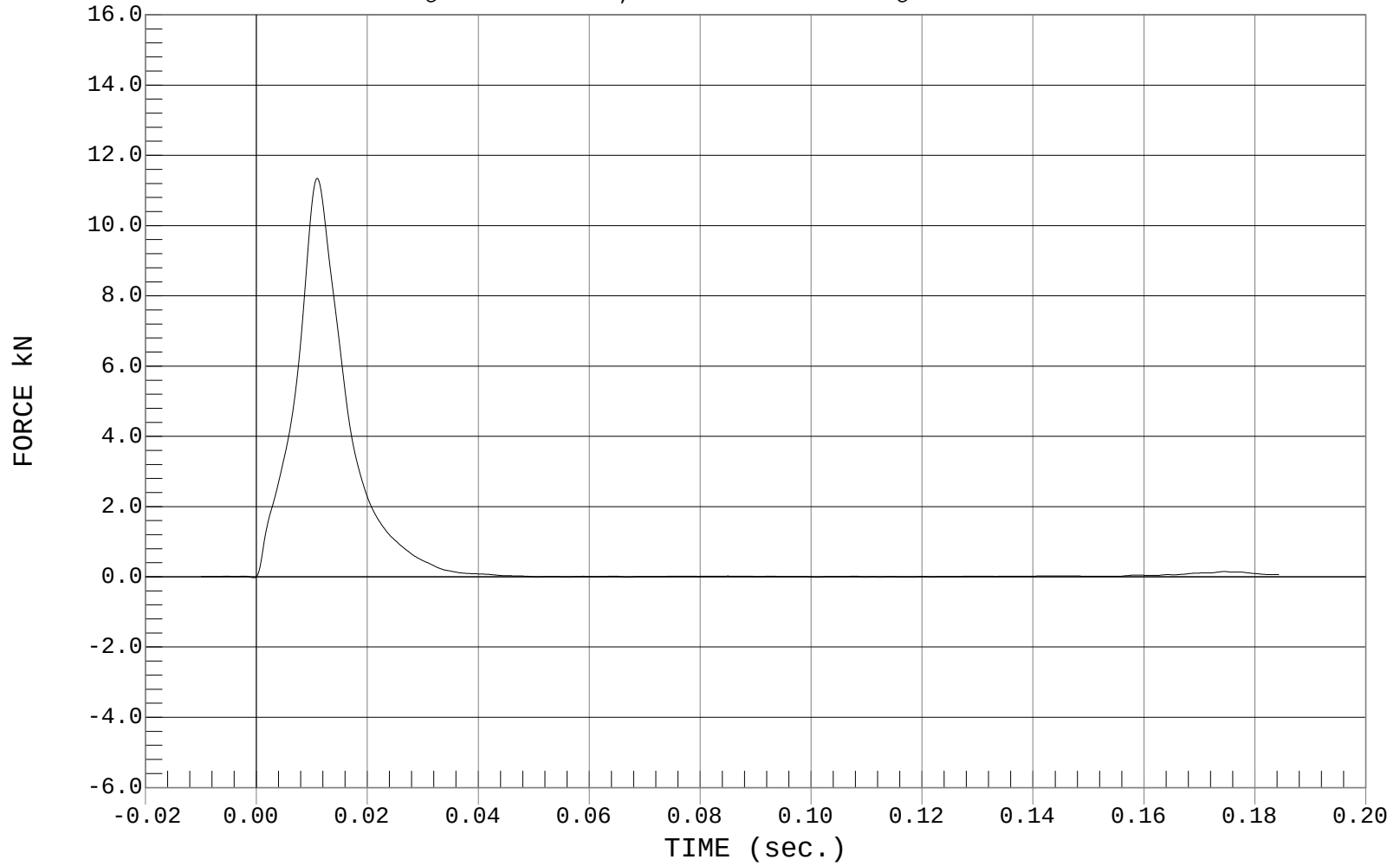
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #010

Test Date: 10-04-01
Speed: 20.52 FT/SEC, 6.25 M/SEC

— 1 FORCE, D01439FT.F01

Ymin = -.03 kN @ -0.0004 sec., Ymax = 11.35 kN @ 0.0110 sec.





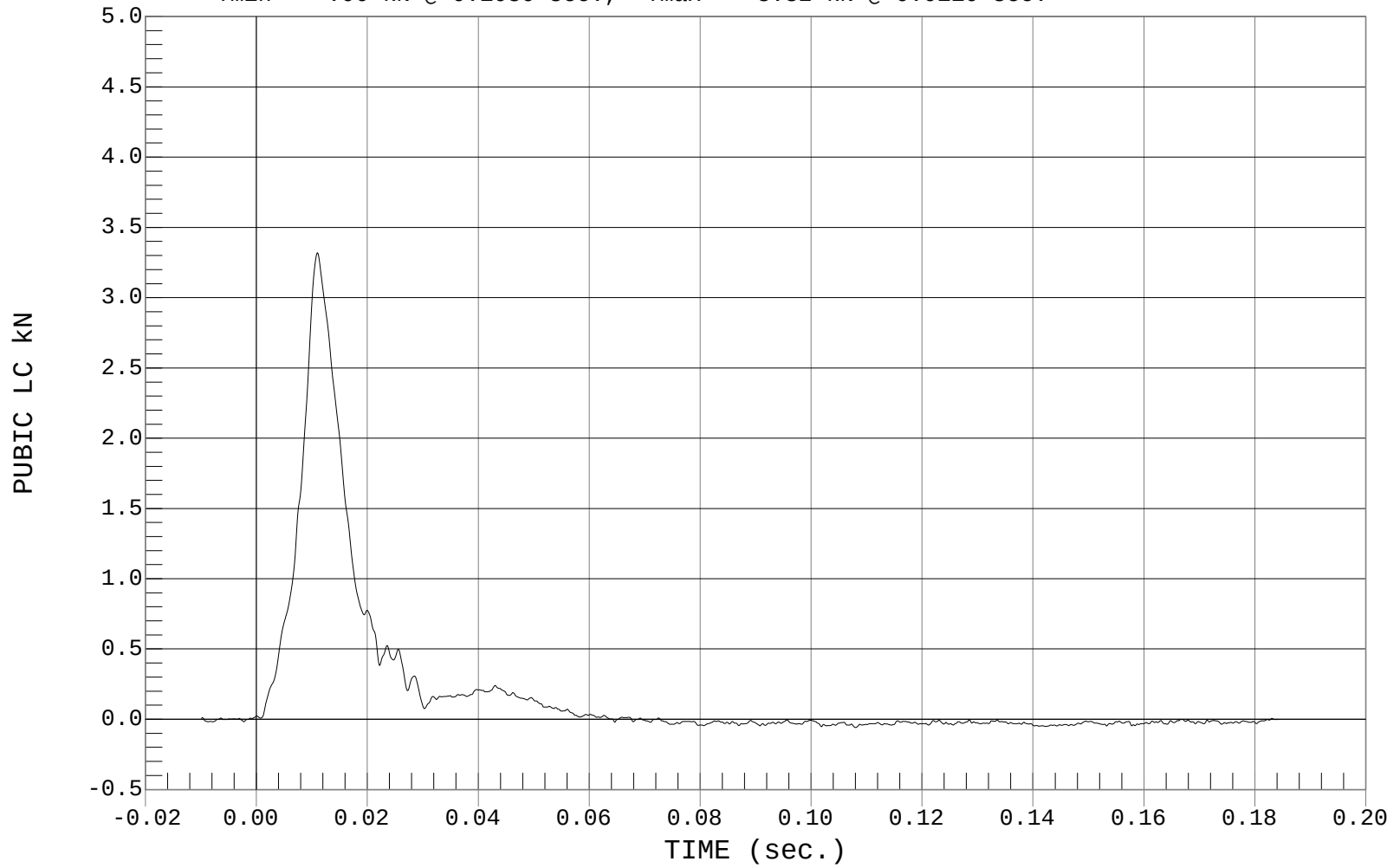
PUBIC FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #010

Test Date: 10-04-01
Speed: 20.52 FT/SEC, 6.25 M/SEC

— 1 PUBIC LC, D01439FT.F02

Ymin = -.06 kN @ 0.1080 sec., Ymax = 3.32 kN @ 0.0110 sec.



CERTIFICATION DATA

Dummy Serial Number: 009

Calibration Test Results Summary

Dummy Serial Number: 009

Post-Test Calibration

Head Drop Test:	The head passed all drop test requirements.
Neck Pendulum Test:	The neck passed all impact test requirements.
Shoulder Impact Test:	The shoulder passed all impact test requirements.
Rib Tests:	All ribs passed all impact test requirements.
Abdomen Test:	The abdomen passed all impact test requirements.
Lumbar Spine Test:	The lumbar spine passed all impact test requirements.
Pelvis Test:	The pelvis passed all impact test requirements.

MGA RESEARCH CORPORATION
HEAD DROP TEST
EUROSID 2 DUMMY

Date: 10/9/01
Dummy Serial Number: 009
Test Number: D011441

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.9
Relative Humidity (%)	10 – 70	46
Peak Resultant Acceleration	100 – 150 g's	144
Time of Max. Res. Acceleration		28.3 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



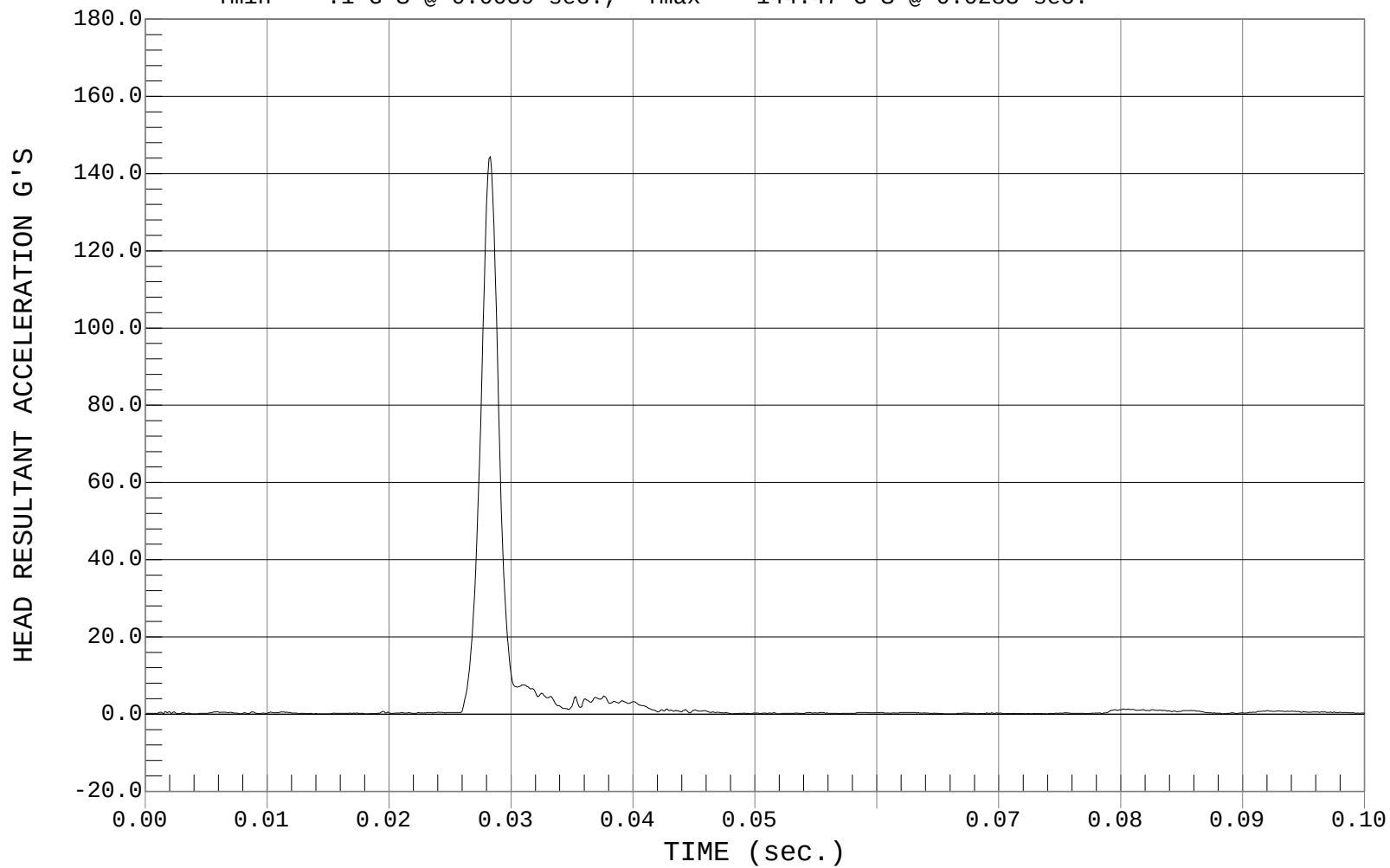
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #009

Test Date: 10-09-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01441AV.A01

Ymin = .1 G'S @ 0.0039 sec., Ymax = 144.47 G'S @ 0.0283 sec.



MGA RESEARCH CORPORATION
NECK PENDULUM TEST
EUROSID 2 DUMMY

Date: 10/10/01

Dummy Serial Number: 009

Test Number: D011442

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.3
Relative Humidity (%)		10 – 70	54
Pendulum Speed		3.3 - 3.5	3.4
Pendulum Deceleration	3 msec	ˆ.25 - ˆ.53 m/sec	-.33
	8 msec	ˆ1.59 - ˆ2.04 m/sec	-1.73
	14 msec	ˆ3.20 - ˆ3.85 m/sec	-3.39
Maximum Flexion Angle		49.0 – 59.0 deg	55.6
Time of Max. Flexion Angle		54.0 – 66.0 ms	57.1
Maximum Angle Theta (A)		32.0 – 37.0 deg	34.1
Time of Max. Theta (A)		53.0 – 63.0 ms	56.6
Maximum Angle Theta (B)		29.37 – 31.87 deg	30.07
Time of Max. Theta (B)		54.0 – 64.0 ms	56.5

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



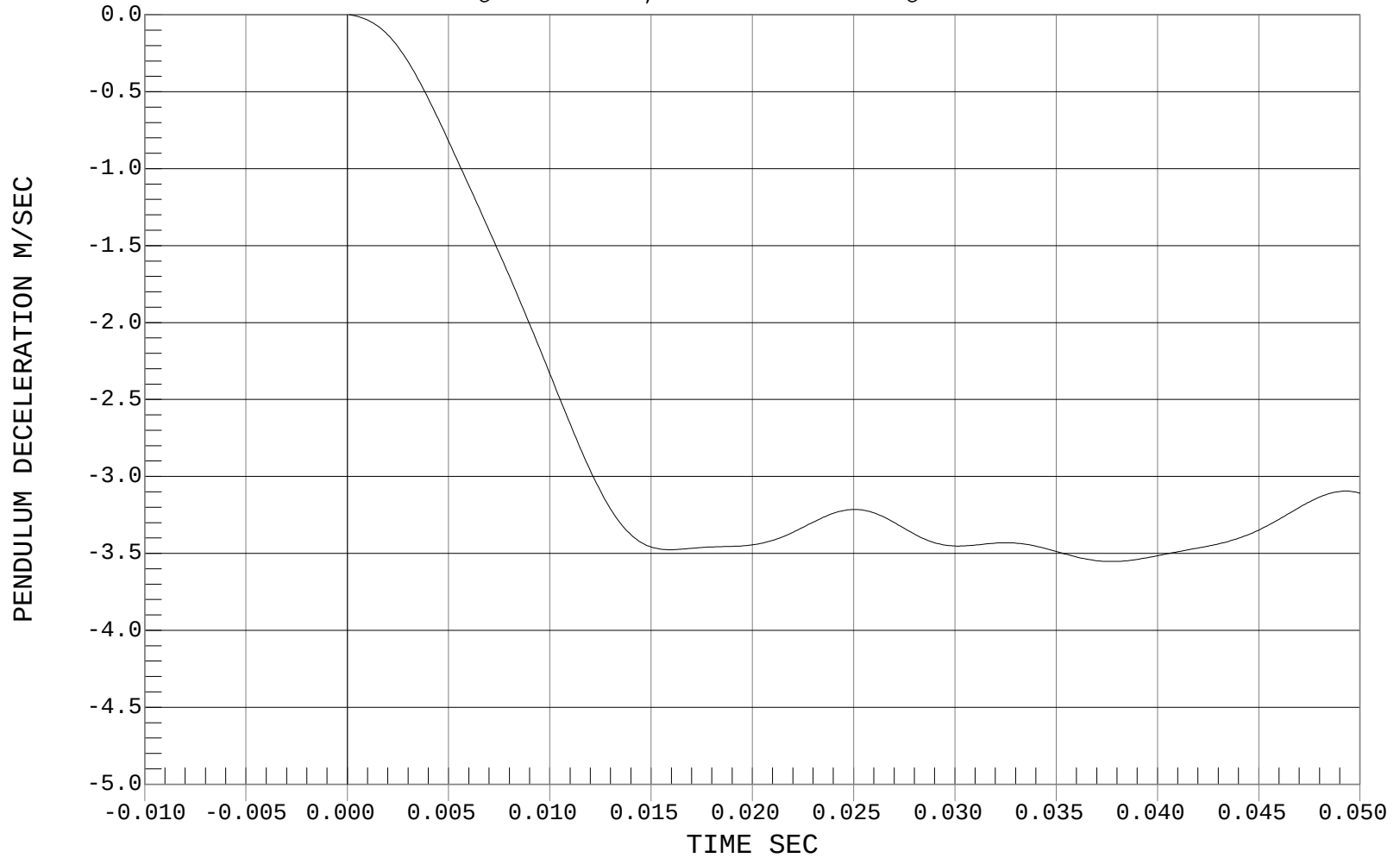
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 10-10-01
Speed: 11.10 FT/SEC, 3.38 M/SEC

— 1 PENDULUM DECELERATION, D01442AI.V04

Ymin = -4.43 M/SEC @ 0.1892 SEC, Ymax = 0 M/SEC @ 0.0001 SEC





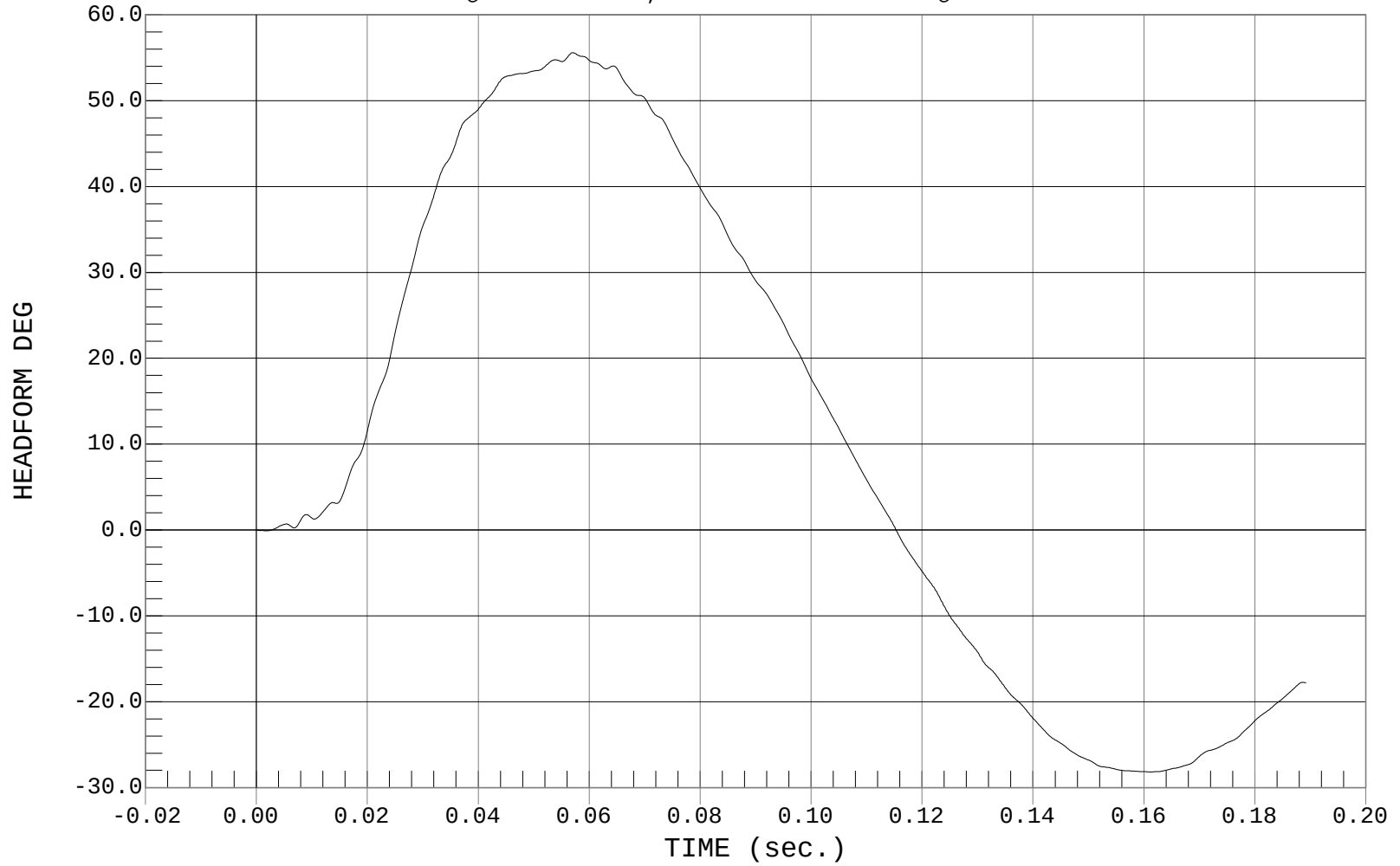
FLEXION ANGLE

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 10-10-01
Speed: 11.10 FT/SEC, 3.38 M/SEC

— 1 HEADFORM, D01442DT.D08

Ymin = -28.19 DEG @ 0.1612 sec., Ymax = 55.59 DEG @ 0.0571 sec.





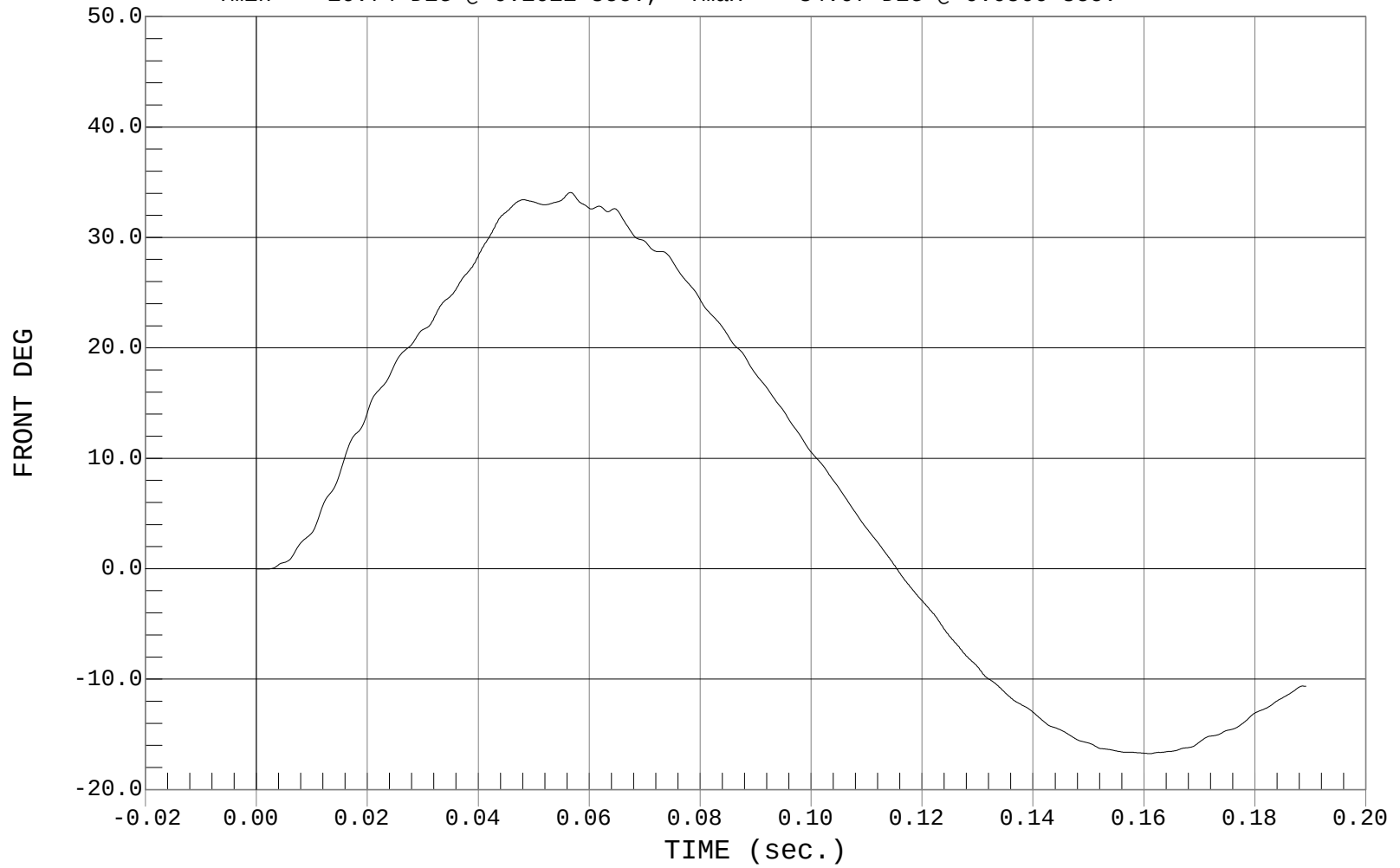
THETA A

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 10-10-01
Speed: 11.10 FT/SEC, 3.38 M/SEC

— 1 FRONT, D01442DT.D05

Ymin = -16.74 DEG @ 0.1611 sec., Ymax = 34.07 DEG @ 0.0566 sec.





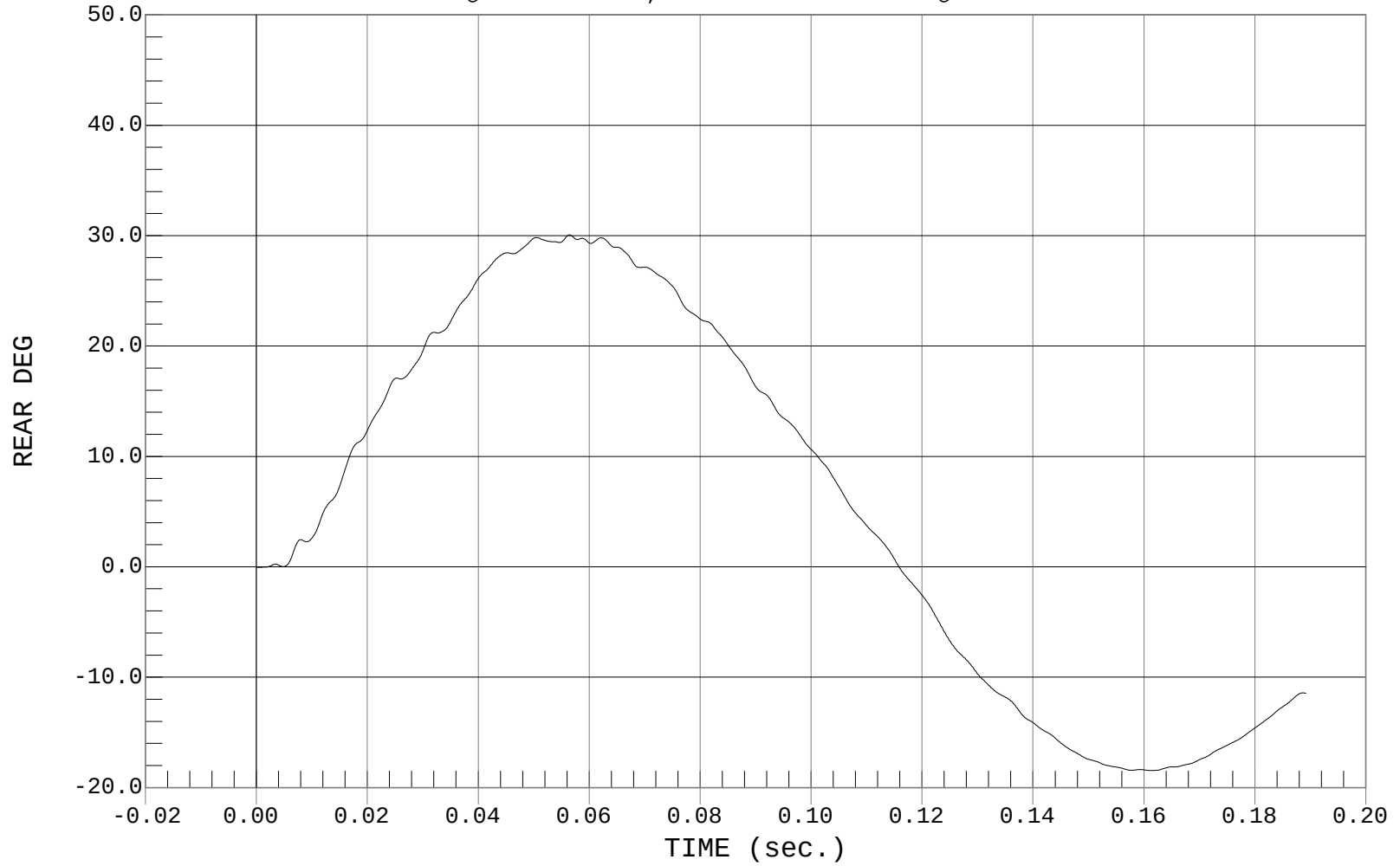
THETA B

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 10-10-01
Speed: 11.10 FT/SEC, 3.38 M/SEC

— 1 REAR, D01442DT.D06

Ymin = -18.46 DEG @ 0.1612 sec., Ymax = 30.07 DEG @ 0.0565 sec.



MGA RESEARCH CORPORATION
SHOULDER IMPACT TEST
EUROSID 2 DUMMY

Date: 10/8/01
Dummy Serial Number: 009
Test Number: D011443

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.9
Relative Humidity (%)	10 – 70	33
Pendulum Speed	4.2 – 4.4 m/s	4.3
Max. Resultant Acceleration	7.5 – 10.5 g's	9.7
Time of Max. Pendulum Acceleration		26.5 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



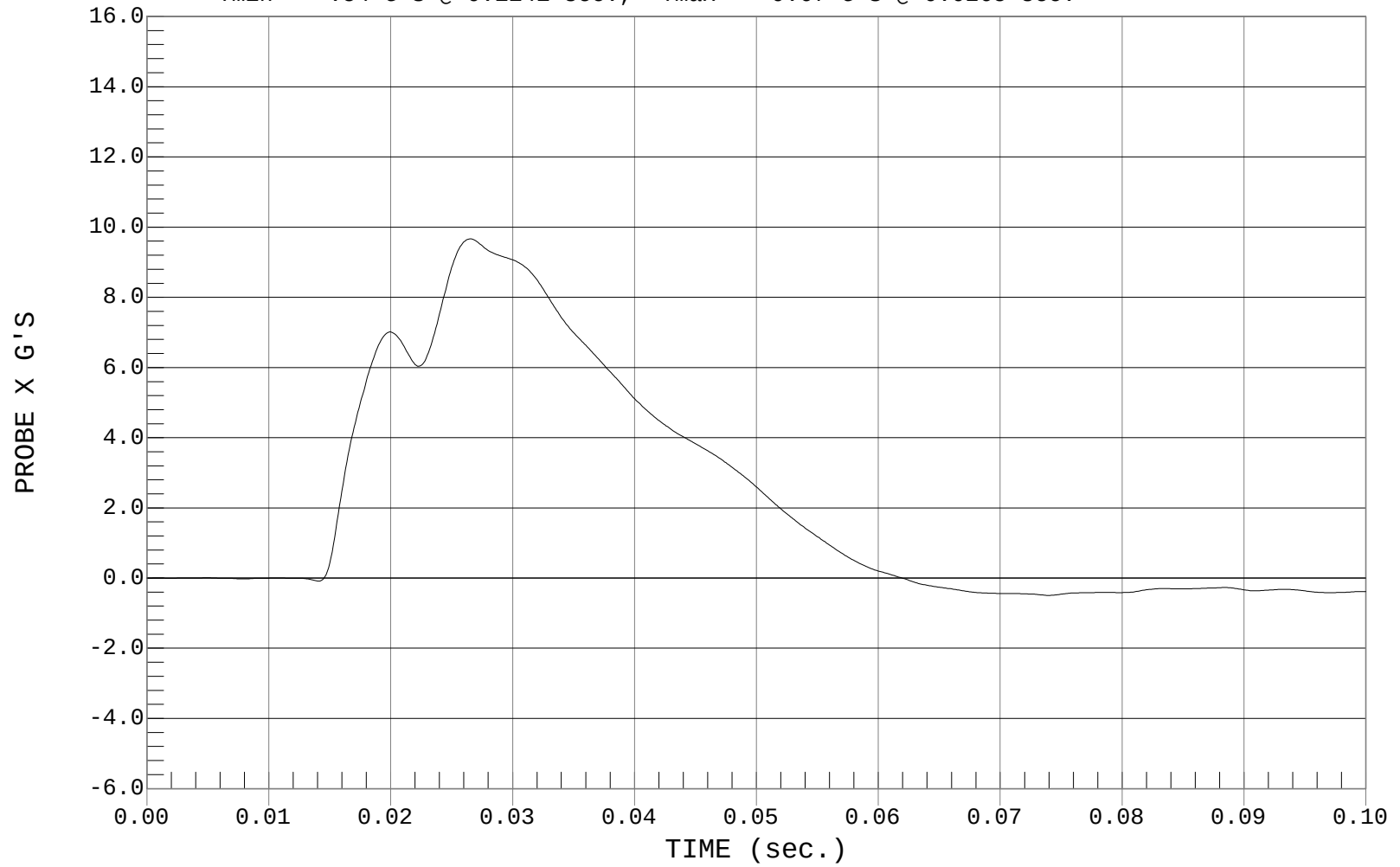
SHOULDER ACCELERATION

Test Desc.: Dummy Calibration - Shoulder Impact
Component: Dummy #009

Test Date: 10-08-01
Speed: 13.96 FT/SEC, 4.25 M/SEC

— 1 PROBE X, D01443AF.A01

Ymin = -.54 G'S @ 0.1141 sec., Ymax = 9.67 G'S @ 0.0265 sec.



MGA RESEARCH CORPORATION
UPPER/MIDDLE/LOWER RIB TESTS
SIDE IMPACT DUMMY (SID)

Date: 10/8/01
Dummy Serial Number: 009
Test Number: D011444/5/6

UPPER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.8
Relative Humidity (%)	10 – 70	36
Displacement at 2 m/s	23.5 – 27.5 mm	27.2
Displacement at 3 m/s	36.0 – 40.0 mm	38.8
Displacement at 4 m/s	46.0 – 51.0 mm	49.9

MIDDLE RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.8
Relative Humidity (%)	10 – 70	36
Displacement at 2 m/s	23.5 – 27.5 mm	26.4
Displacement at 3 m/s	36.0 – 40.0 mm	39.8
Displacement at 4 m/s	46.0 – 51.0 mm	49.7

LOWER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.8
Relative Humidity (%)	10 – 70	36
Displacement at 2 m/s	23.5 – 27.5 mm	25.8
Displacement at 3 m/s	36.0 – 40.0 mm	38.4
Displacement at 4 m/s	46.0 – 51.0 mm	50.6

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



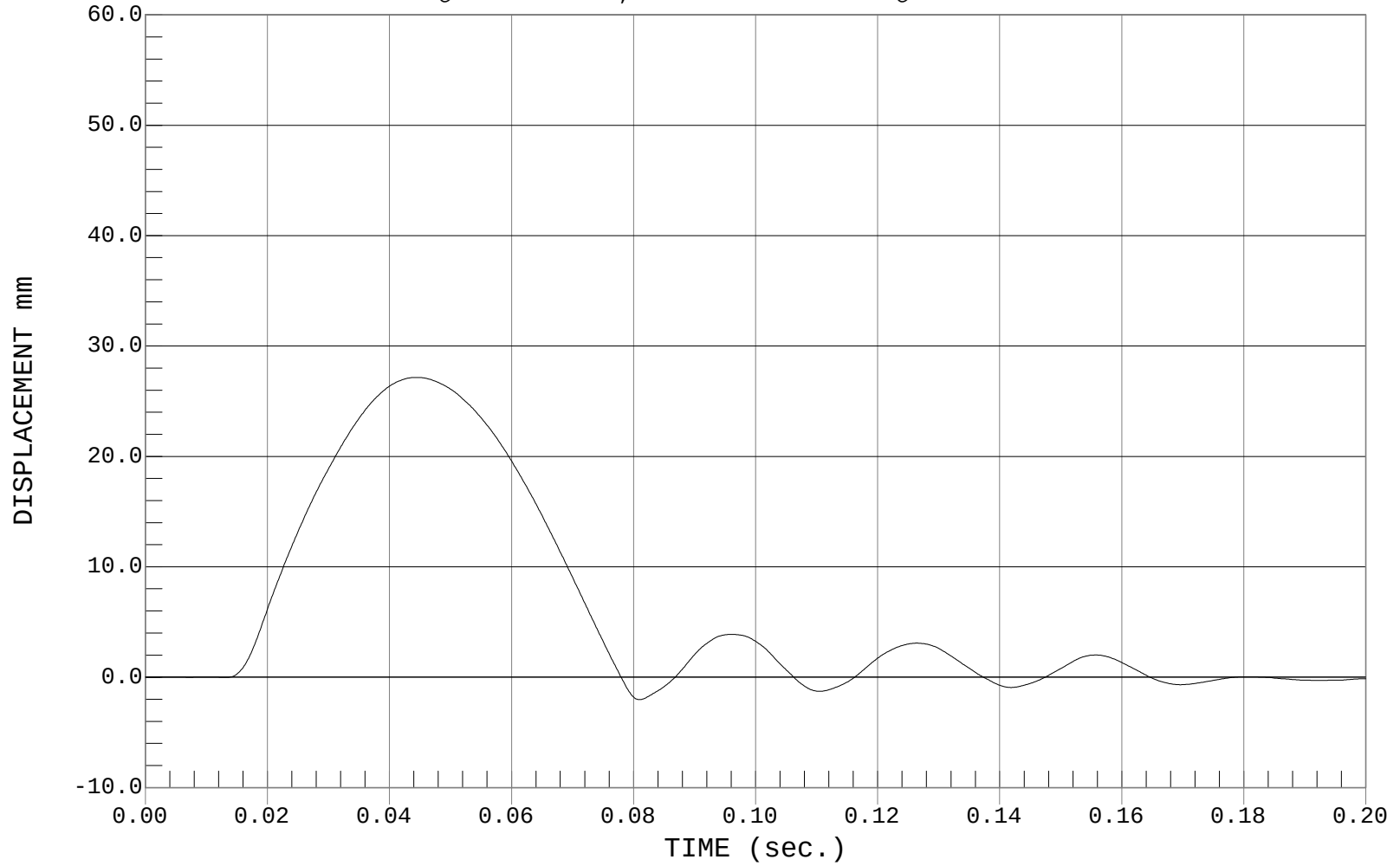
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

1 DISPLACEMENT, D01444DF.D05

Ymin = -2.04 mm @ 0.0809 sec., Ymax = 27.16 mm @ 0.0444 sec.





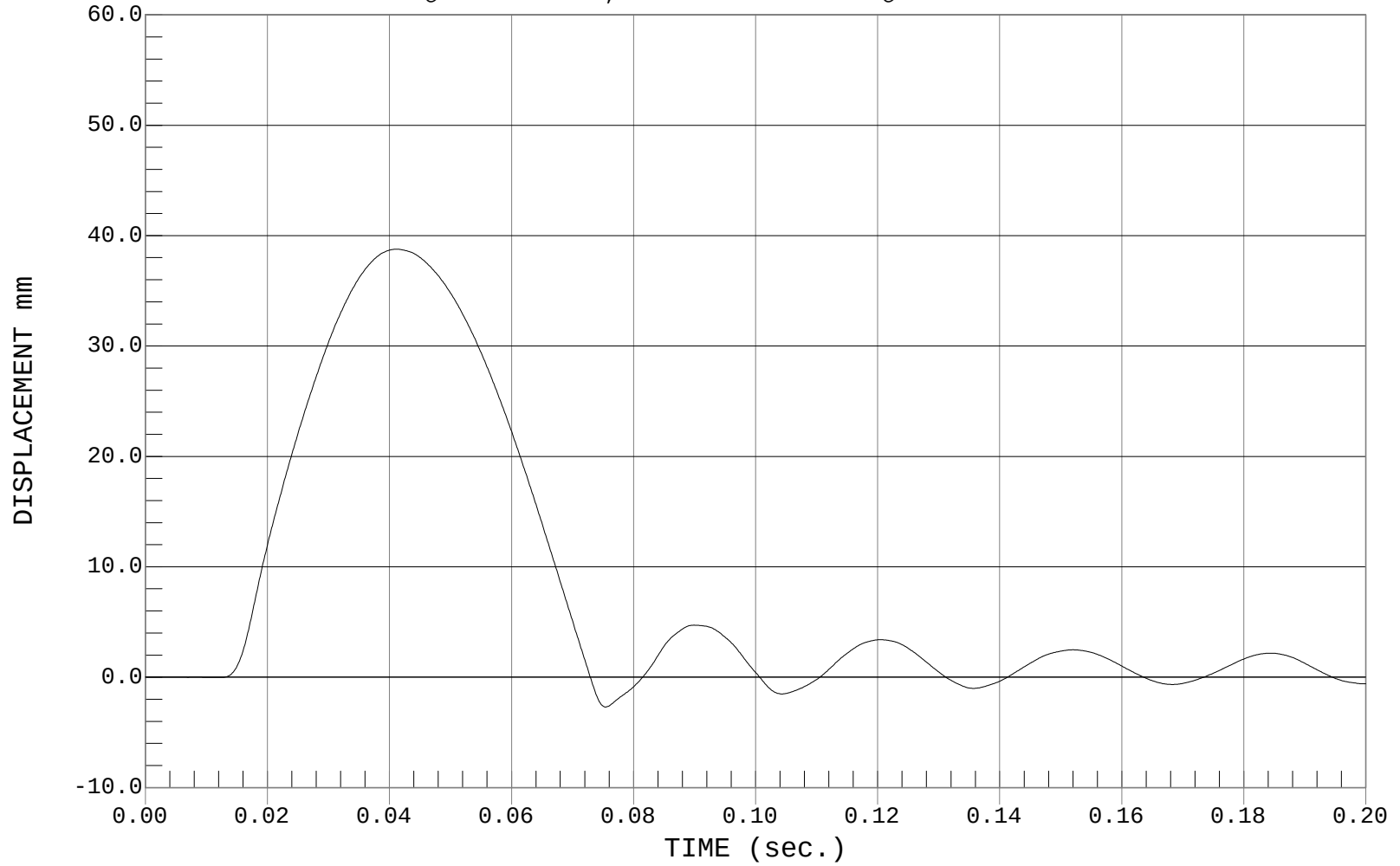
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01444DF.D06

Ymin = -2.7 mm @ 0.0754 sec., Ymax = 38.77 mm @ 0.0411 sec.





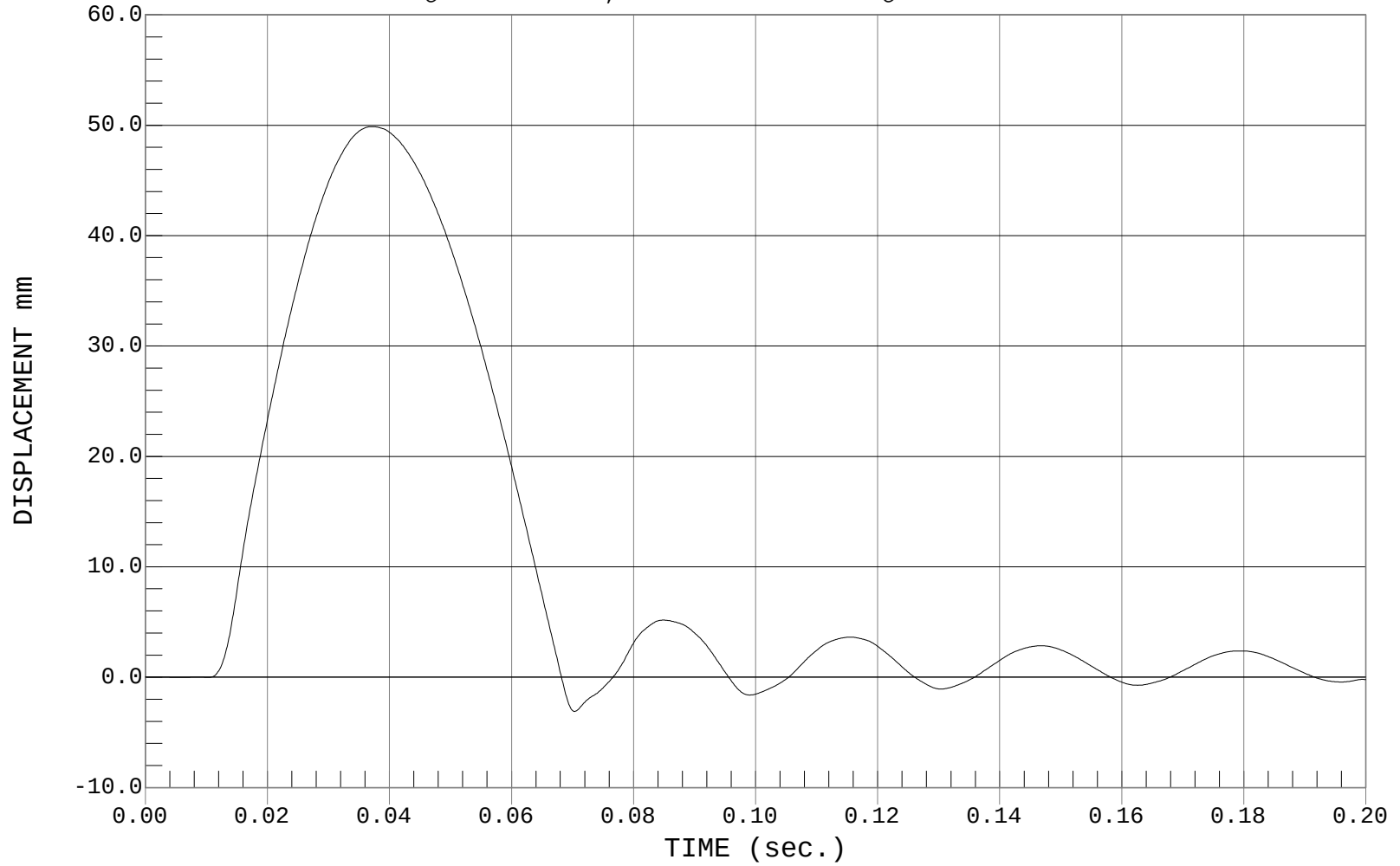
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01444DF.D07

Ymin = -3.1 mm @ 0.0703 sec., Ymax = 49.88 mm @ 0.0371 sec.





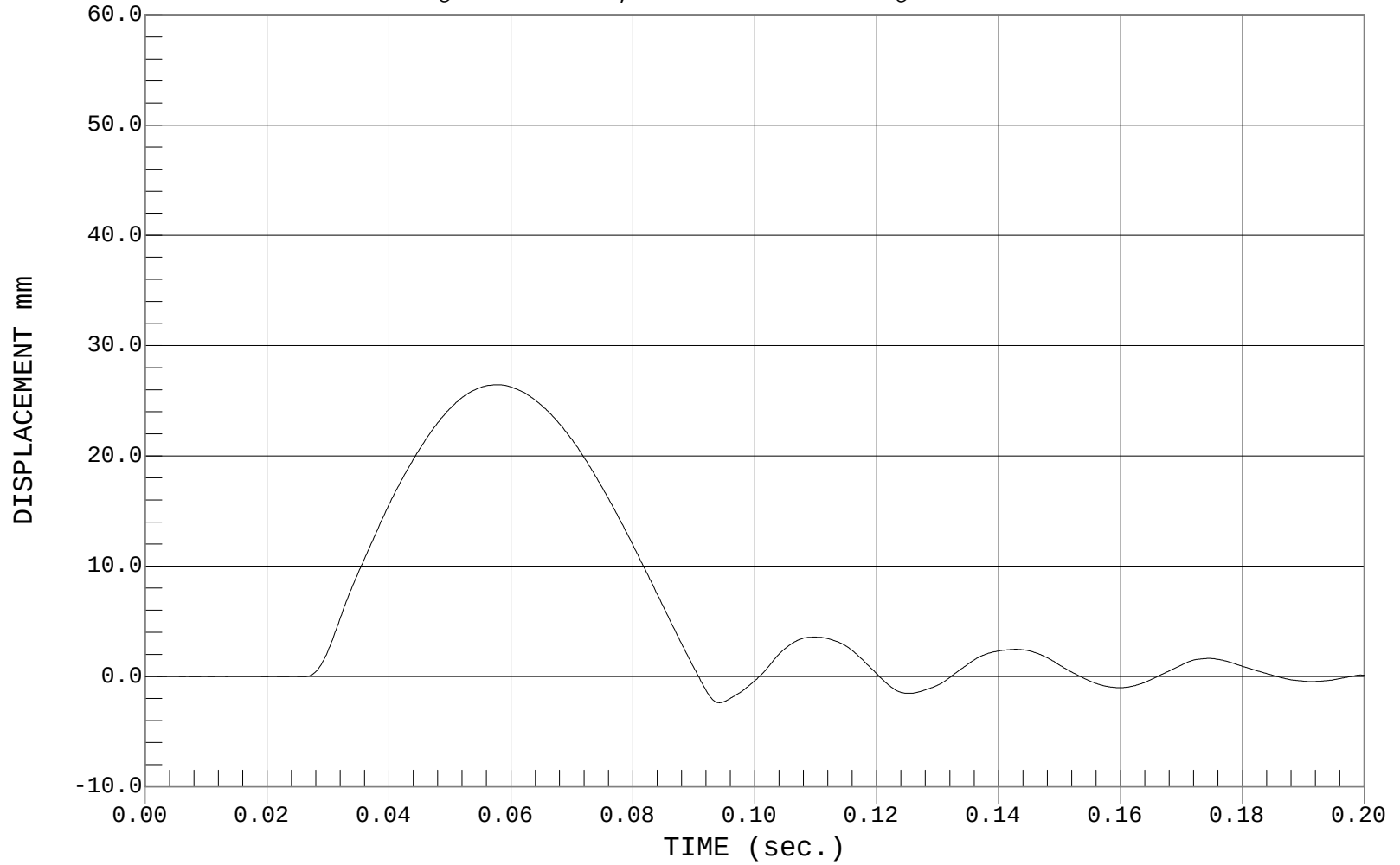
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01445DF.D05

Ymin = -2.39 mm @ 0.0942 sec., Ymax = 26.44 mm @ 0.0579 sec.





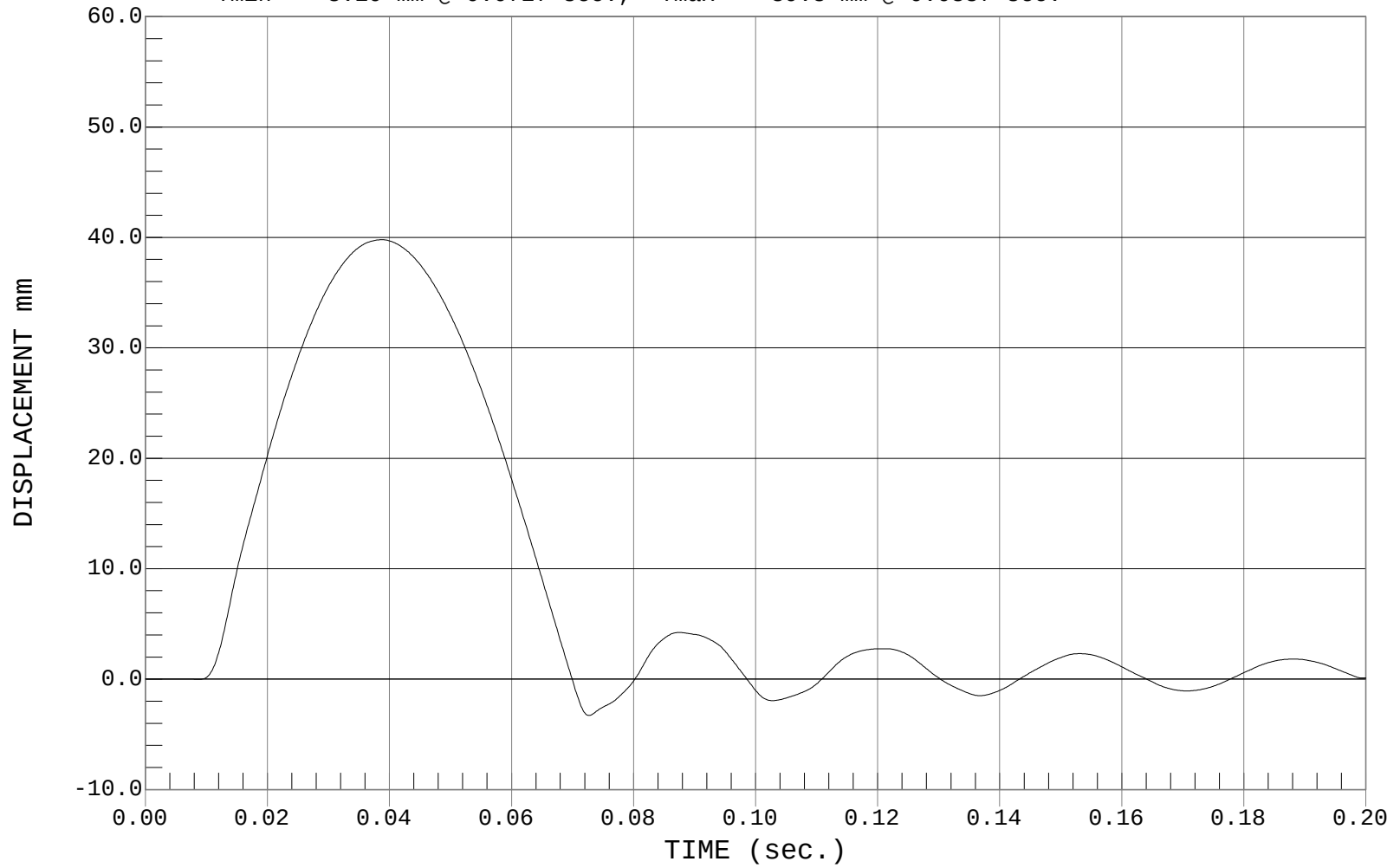
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01445DF.D06

Ymin = -3.29 mm @ 0.0727 sec., Ymax = 39.8 mm @ 0.0387 sec.





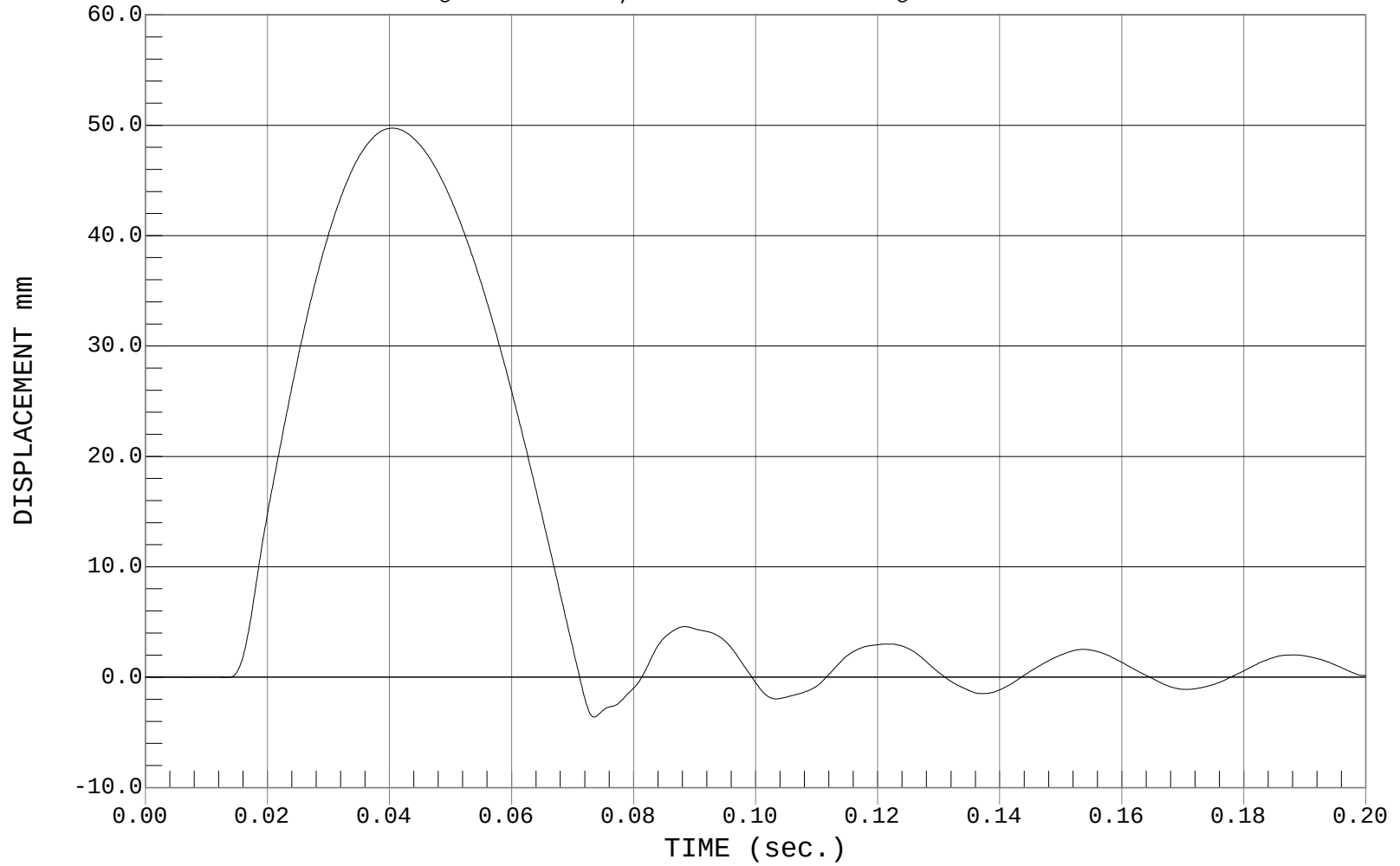
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01445DF.D07

Ymin = -3.62 mm @ 0.0735 sec., Ymax = 49.73 mm @ 0.0405 sec.





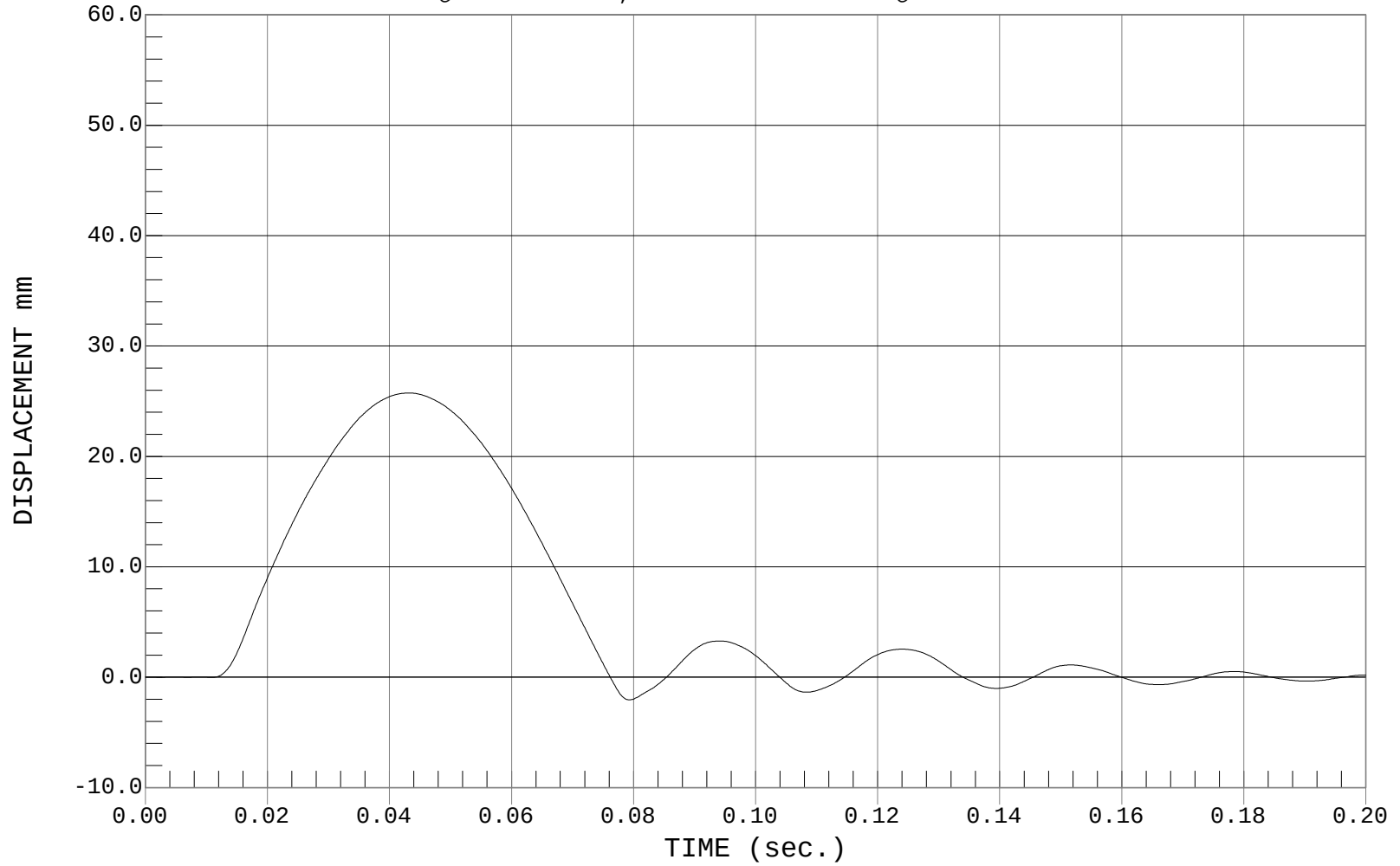
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01446DF.D05

Ymin = -2.06 mm @ 0.0793 sec., Ymax = 25.75 mm @ 0.0432 sec.





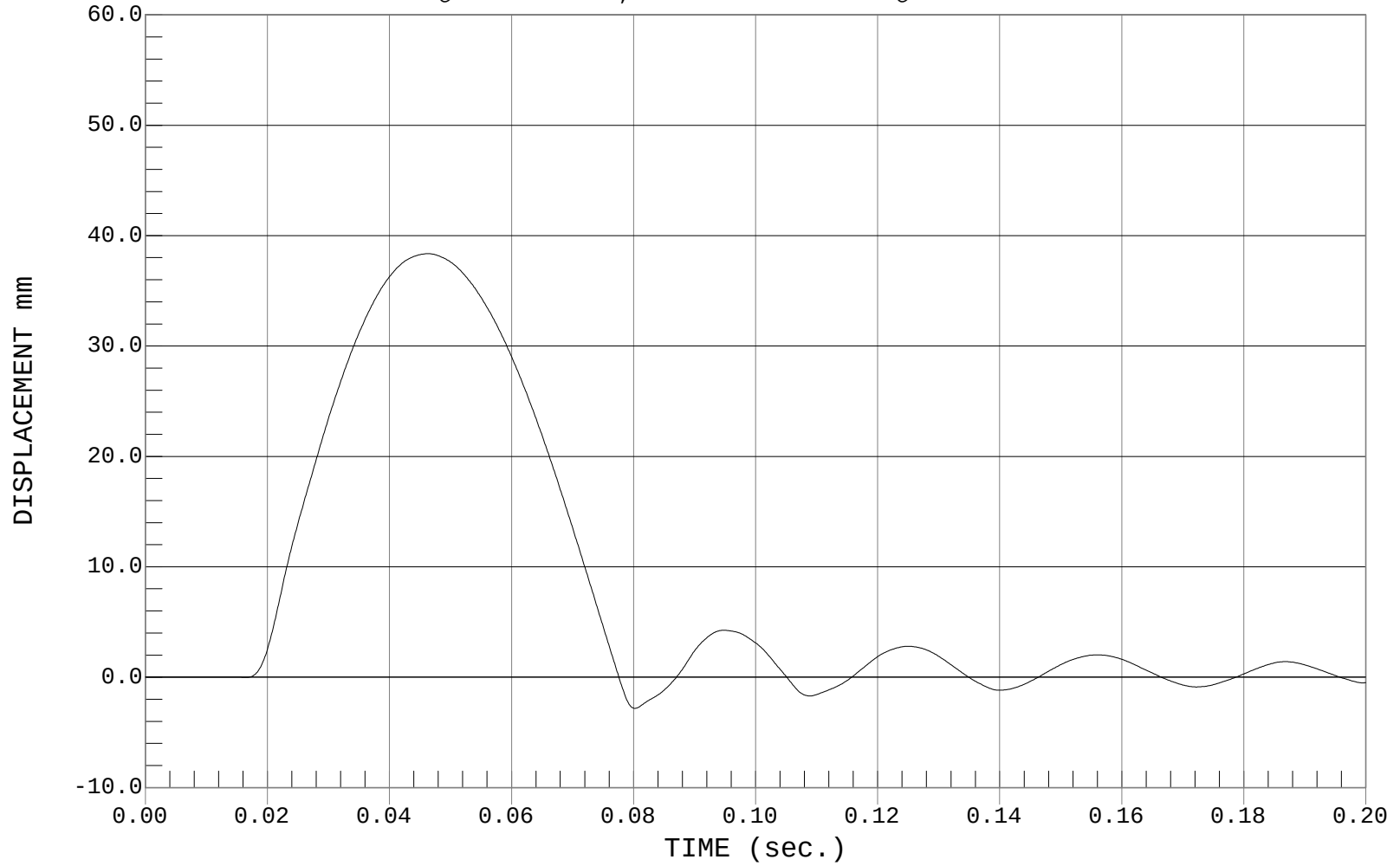
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01446DF.D06

Ymin = -2.83 mm @ 0.0802 sec., Ymax = 38.36 mm @ 0.0463 sec.





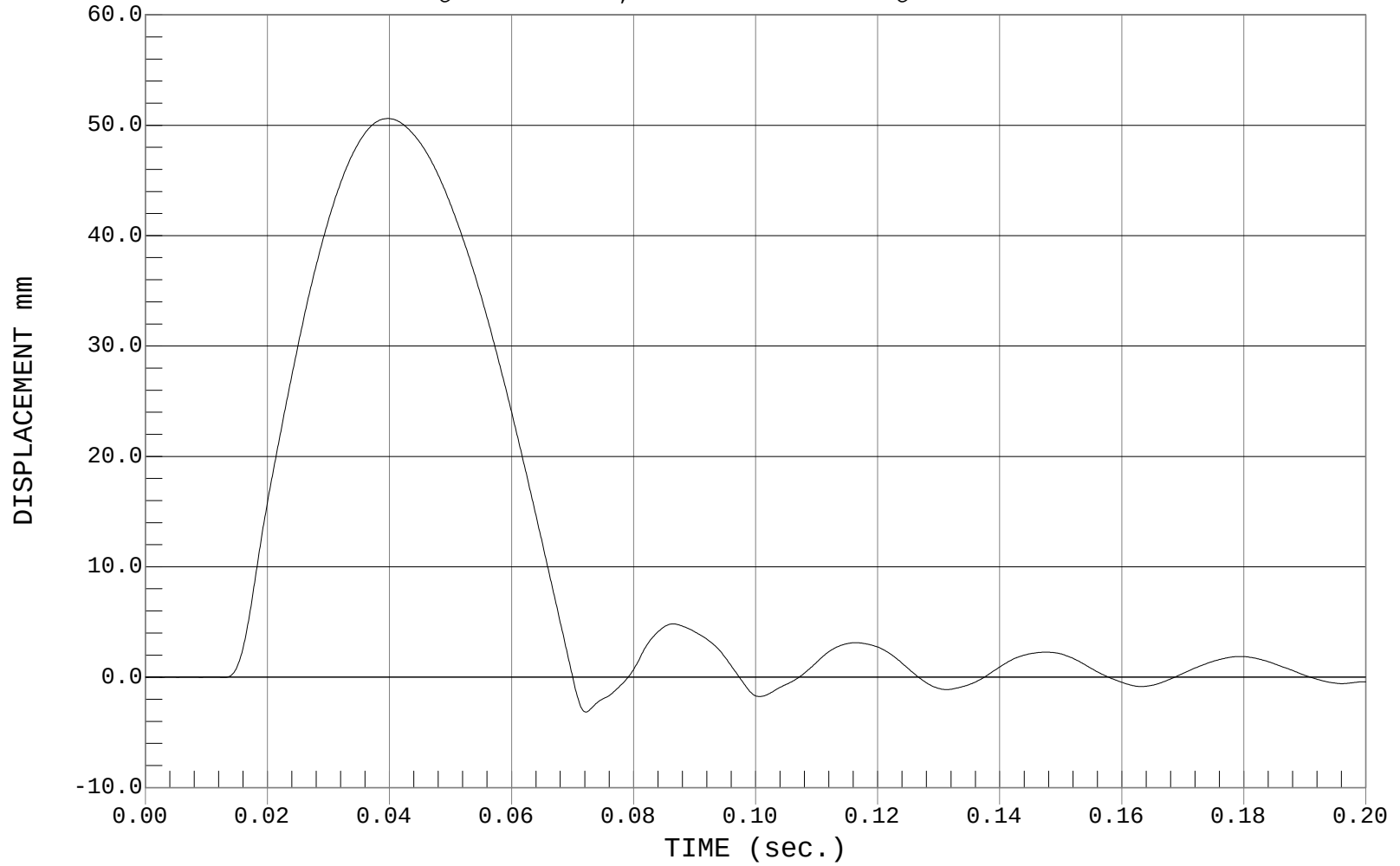
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 10-08-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01446DF.D07

Ymin = -3.15 mm @ 0.0722 sec., Ymax = 50.61 mm @ 0.0397 sec.



MGA RESEARCH CORPORATION
ABDOMEN TEST
EUROSID 2 DUMMY

Date: 10/8/01
Dummy Serial Number: 009
Test Number: D011447

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.9
Relative Humidity (%)	10 – 70	32
Probe Speed (m/s)	3.90 – 4.10	4.03
Maximum Impact Force	4.00 – 4.80 kN	4.67
Time of Maximum Force	10.60 – 13.00 ms	11.50
Maximum Total Abdomen Force	2.20 – 2.70 kN	2.25
Time of Max. Total Force	10.00 – 12.30 ms	11.10

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



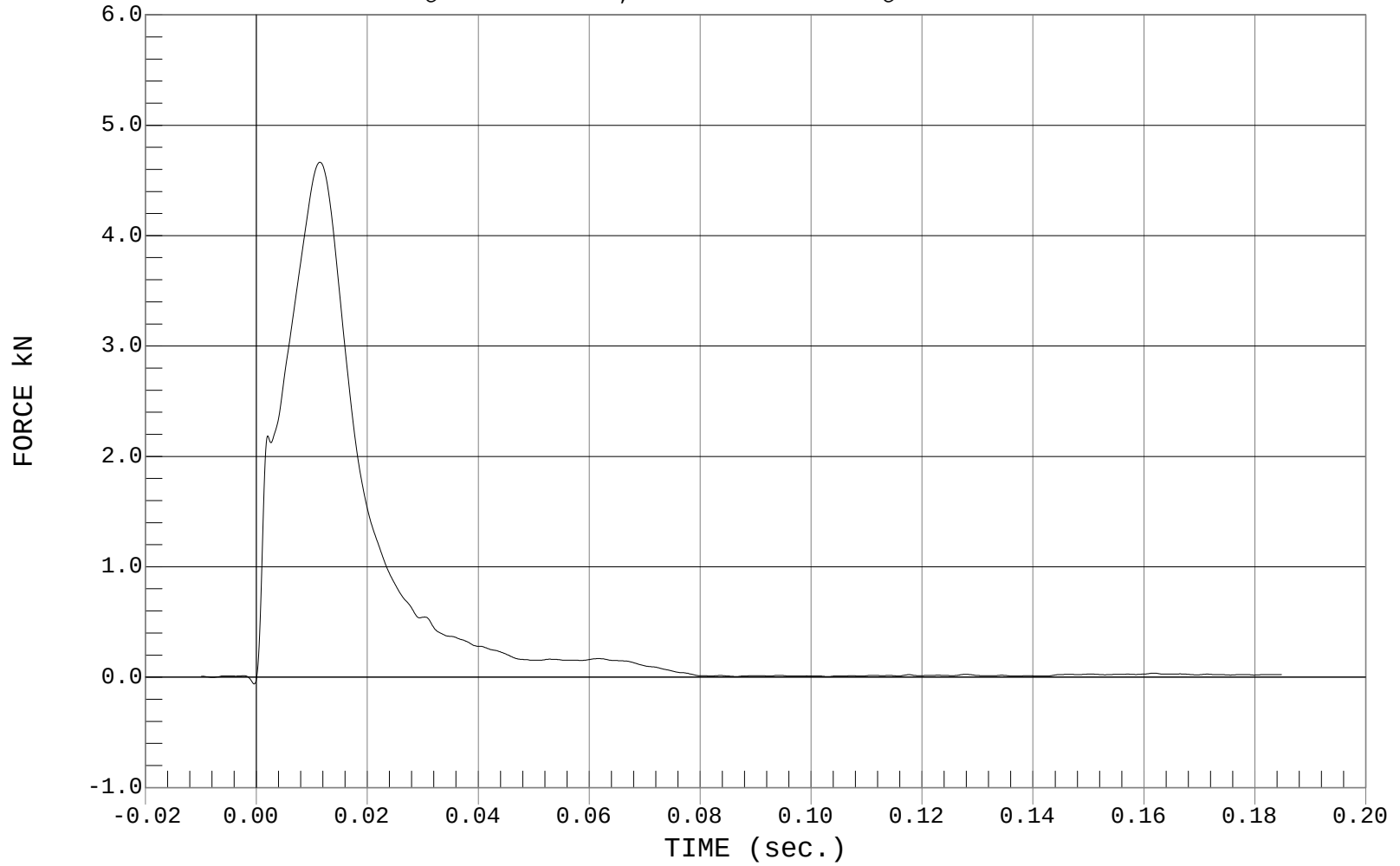
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Abdomen Impact
Component: Dummy #009

Test Date: 10-08-01
Speed: 13.23 FT/SEC, 4.03 M/SEC

— 1 FORCE, D01447FT.F01

Ymin = -.06 kN @ -0.0004 sec., Ymax = 4.67 kN @ 0.0115 sec.





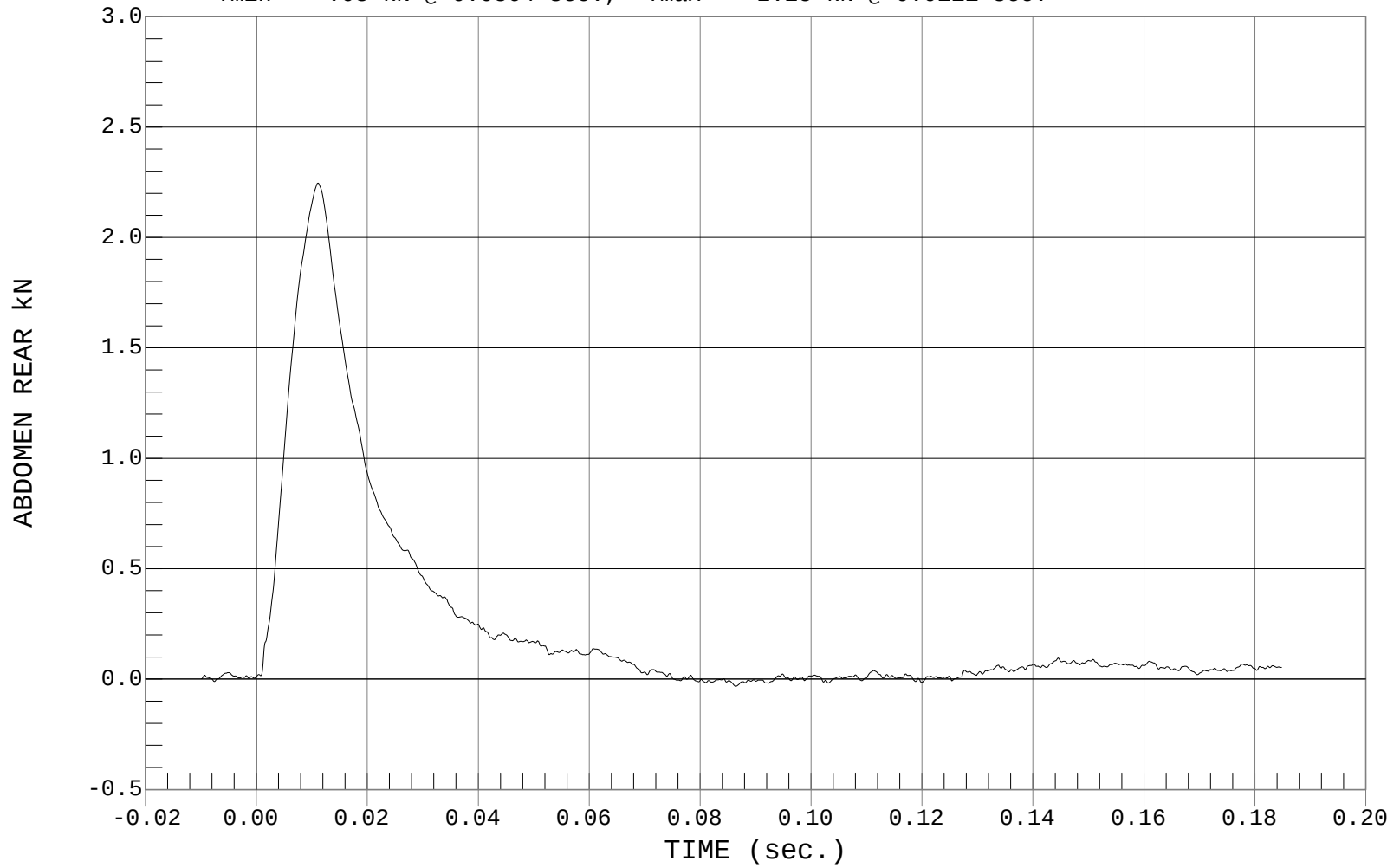
ABDOMEN FORCE

Test Desc.: Dummy Calibration - Abdomen Impact
Component: Dummy #009

Test Date: 10-08-01
Speed: 13.23 FT/SEC, 4.03 M/SEC

— 1 ABDOMEN REAR, D01447FT.F02

Ymin = -.03 kN @ 0.0864 sec., Ymax = 2.25 kN @ 0.0111 sec.



MGA RESEARCH CORPORATION
LUMBAR SPINE TEST
EUROSID 2 DUMMY

Date: 10/11/01

Dummy Serial Number: 009

Test Number: D011448

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.8
Relative Humidity (%)		10 – 70	46
Pendulum Speed		5.95 – 6.15	6.07
Pendulum Deceleration	10 msec	2.46 - 1.59 m/sec	-1.86
	20 msec	5.25 - 4.07 m/sec	-4.26
	25 msec	6.64 - 5.3 m/sec	-5.35
	30 msec	≥ -6.5 m/sec	-6.22
Maximum Flexion Angle		45.0 – 55.0 deg	50.3
Time of Max. Flexion Angle		39.0 – 53.0 ms	46.3
Maximum Angle Theta (A)		31.0 – 35.0 deg	31.9
Time of Max. Theta (A)		44.0 – 52.0 ms	46.2
Maximum Angle Theta (B)		27.52– 30.02 deg	28.01
Time of Max. Theta (B)		44.0 – 52.0 ms	45.5

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

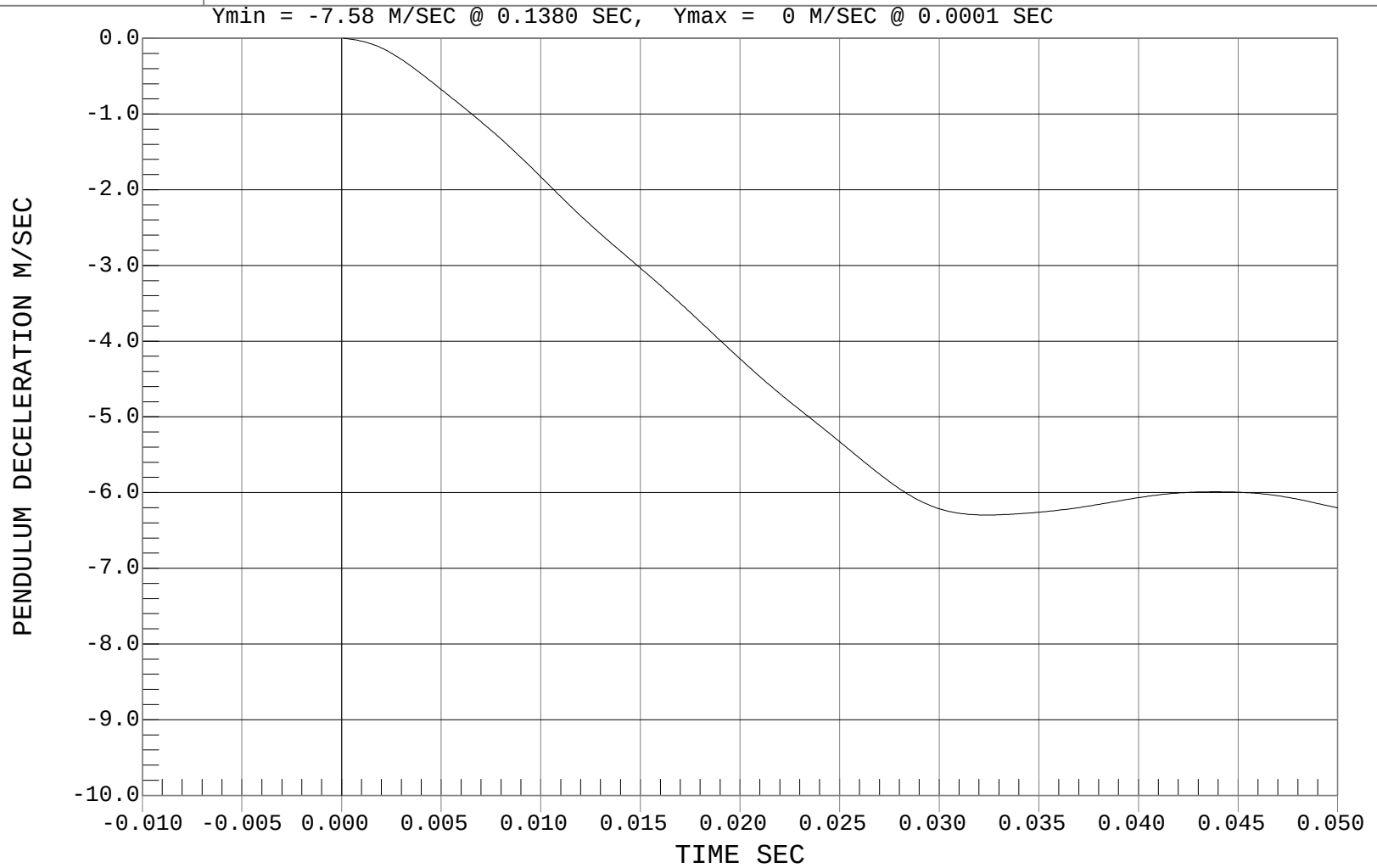


PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 10-11-01
Speed: 19.90 FT/SEC, 6.07 M/SEC

— 1 PENDULUM DECELERATION, D01448AI.V04





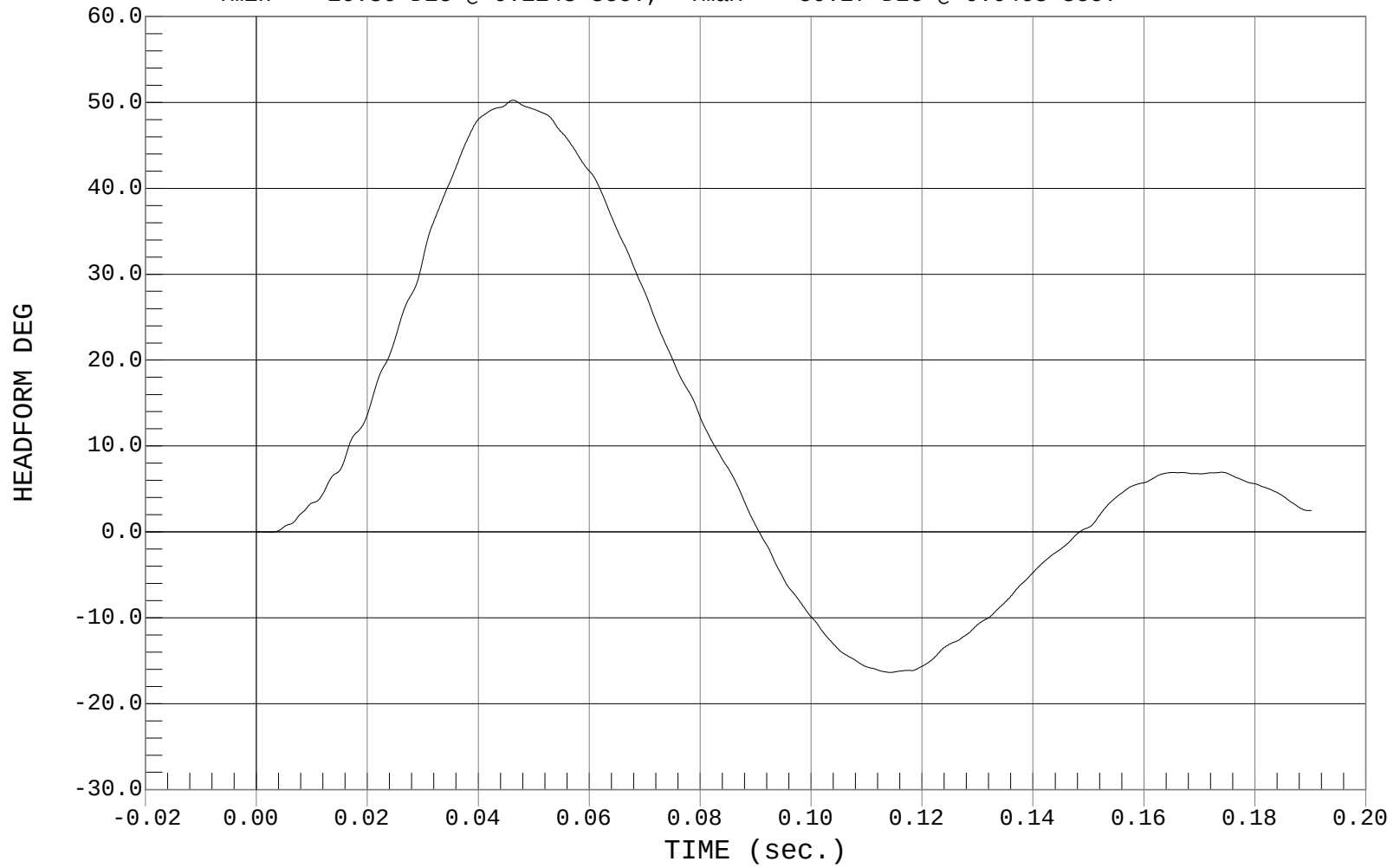
FLEXION ANGLE

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 10-11-01
Speed: 19.90 FT/SEC, 6.07 M/SEC

— 1 HEADFORM, D01448DT.D08

Ymin = -16.36 DEG @ 0.1143 sec., Ymax = 50.27 DEG @ 0.0463 sec.





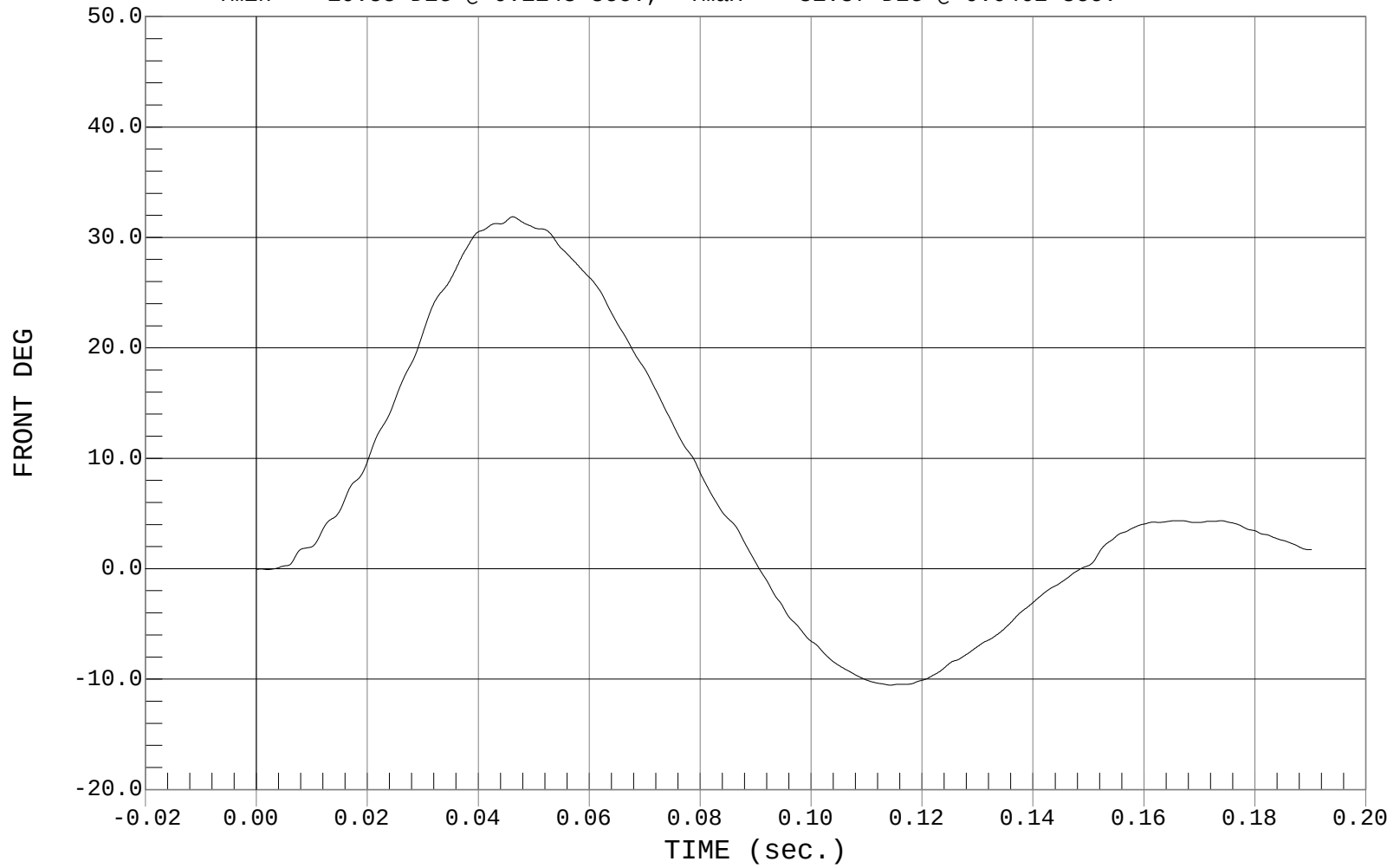
THETA A

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 10-11-01
Speed: 19.90 FT/SEC, 6.07 M/SEC

— 1 FRONT, D01448DT.D05

Ymin = -10.55 DEG @ 0.1143 sec., Ymax = 31.87 DEG @ 0.0462 sec.





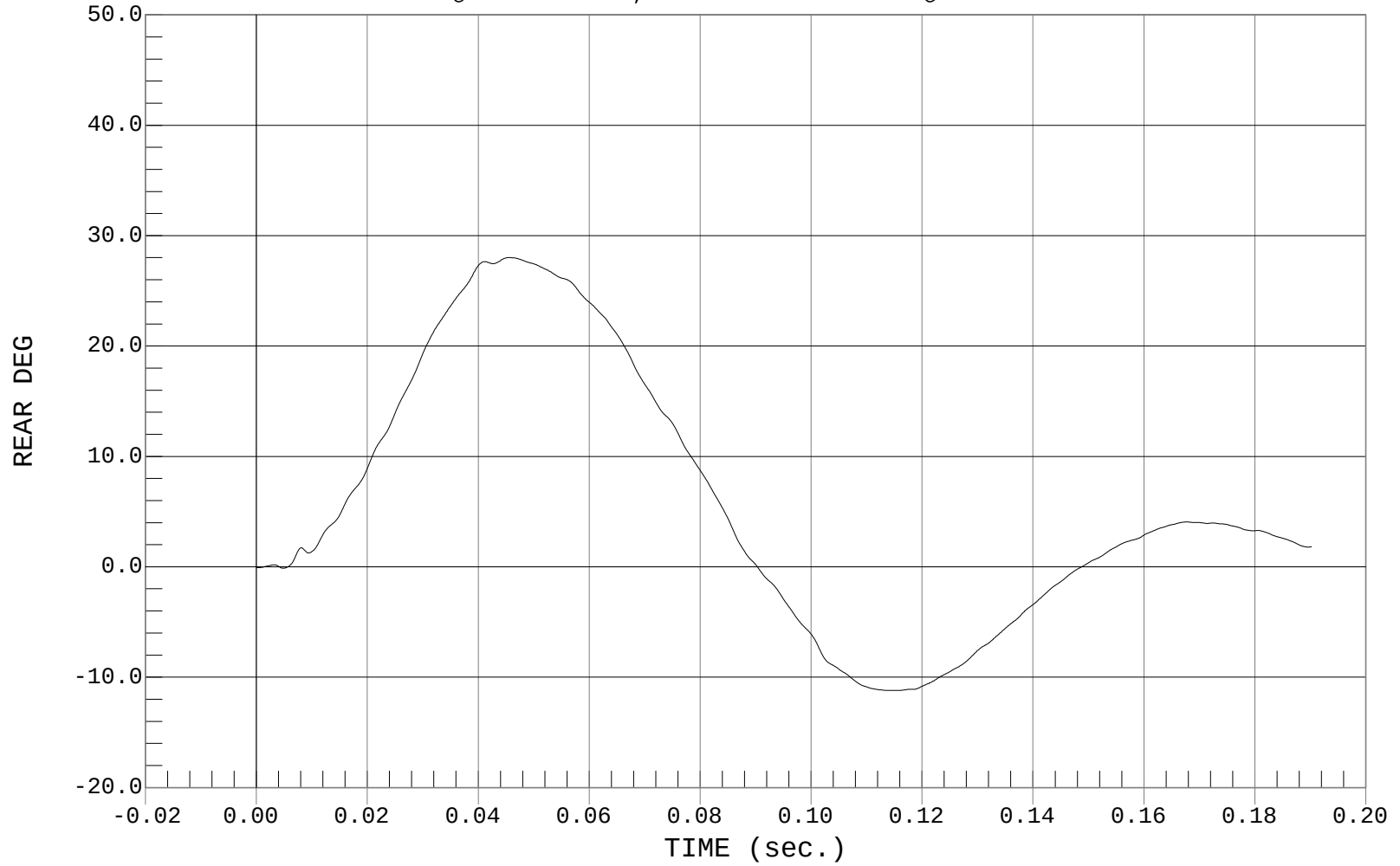
THETA B

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 10-11-01
Speed: 19.90 FT/SEC, 6.07 M/SEC

— 1 REAR, D01448DT.D06

Ymin = -11.2 DEG @ 0.1156 sec., Ymax = 28.01 DEG @ 0.0455 sec.



MGA RESEARCH CORPORATION
PELVIS TEST
EUROSID 2 DUMMY

Date: 10/8/01
Dummy Serial Number: 009
Test Number: D011449

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.9
Relative Humidity (%)	10 – 70	32
Pendulum Speed	6.20 – 6.30 m/s	6.22
Maximum Impactor Force	9.80 – 12.20 kN	10.74
Time of Max. Impactor Force	9.50 – 12.50 ms	11.20
Maximum Pubic Force	2.65 – 3.35 kN	3.30
Time of Max. Pubic Force	10.00 – 13.00 ms	11.70

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



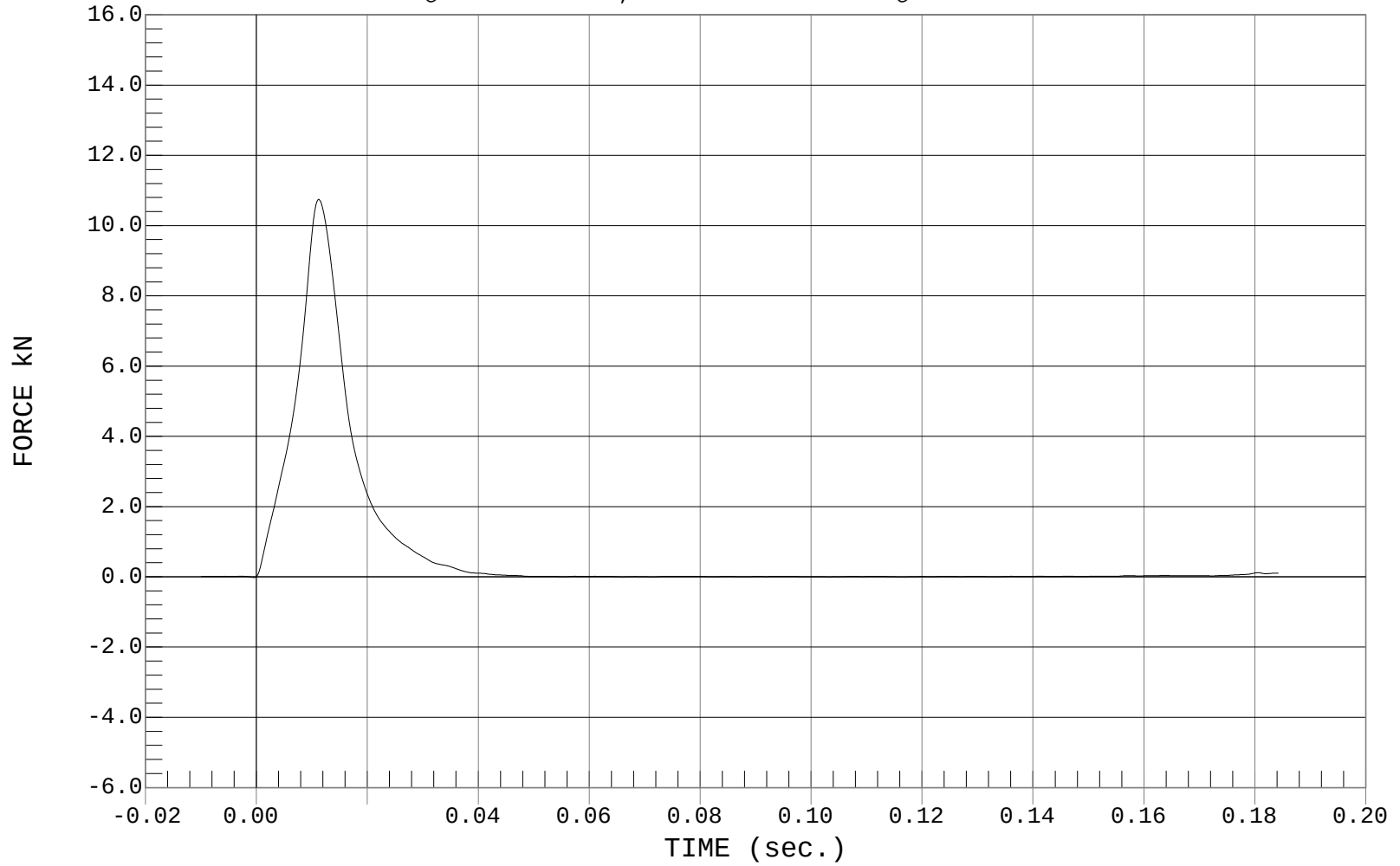
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #009

Test Date: 10-08-01
Speed: 20.42 FT/SEC, 6.22 M/SEC

— 1 FORCE, D01449FT.F01

Ymin = -.02 kN @ -0.0005 sec., Ymax = 10.74 kN @ 0.0112 sec.





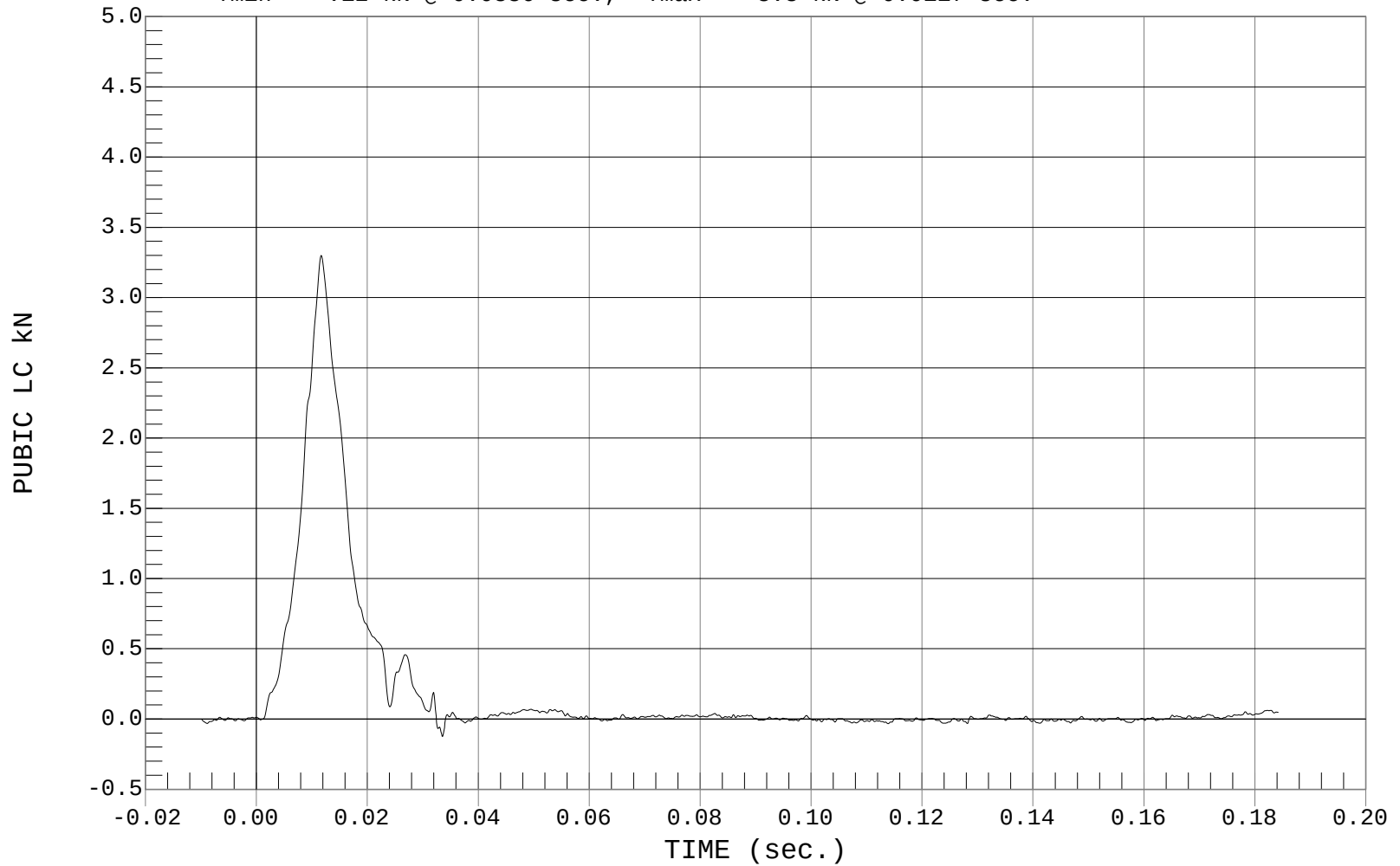
PUBIC FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #009

Test Date: 10-08-01
Speed: 20.42 FT/SEC, 6.22 M/SEC

— 1 PUBIC LC, D01449FT.F02

Ymin = -.12 kN @ 0.0336 sec., Ymax = 3.3 kN @ 0.0117 sec.



CERTIFICATION DATA

Dummy Serial Number: 010

Calibration Test Results Summary

Dummy Serial Number: 010

Post-Test Calibration

Head Drop Test:	The head passed all drop test requirements.
Neck Pendulum Test:	The neck passed all impact test requirements.
Shoulder Impact Test:	The shoulder passed all impact test requirements.
Rib Tests:	All ribs passed all impact test requirements.
Abdomen Test:	The abdomen passed all impact test requirements.
Lumbar Spine Test:	The lumbar spine passed all impact test requirements.
Pelvis Test:	The pelvis passed all impact test requirements.

MGA RESEARCH CORPORATION
HEAD DROP TEST
EUROSID 2 DUMMY

Date: 10/9/01
Dummy Serial Number: 010
Test Number: D011451

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.9
Relative Humidity (%)	10 – 70	45
Peak Resultant Acceleration	100 – 150 g's	136
Time of Max. Res. Acceleration		28.3 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



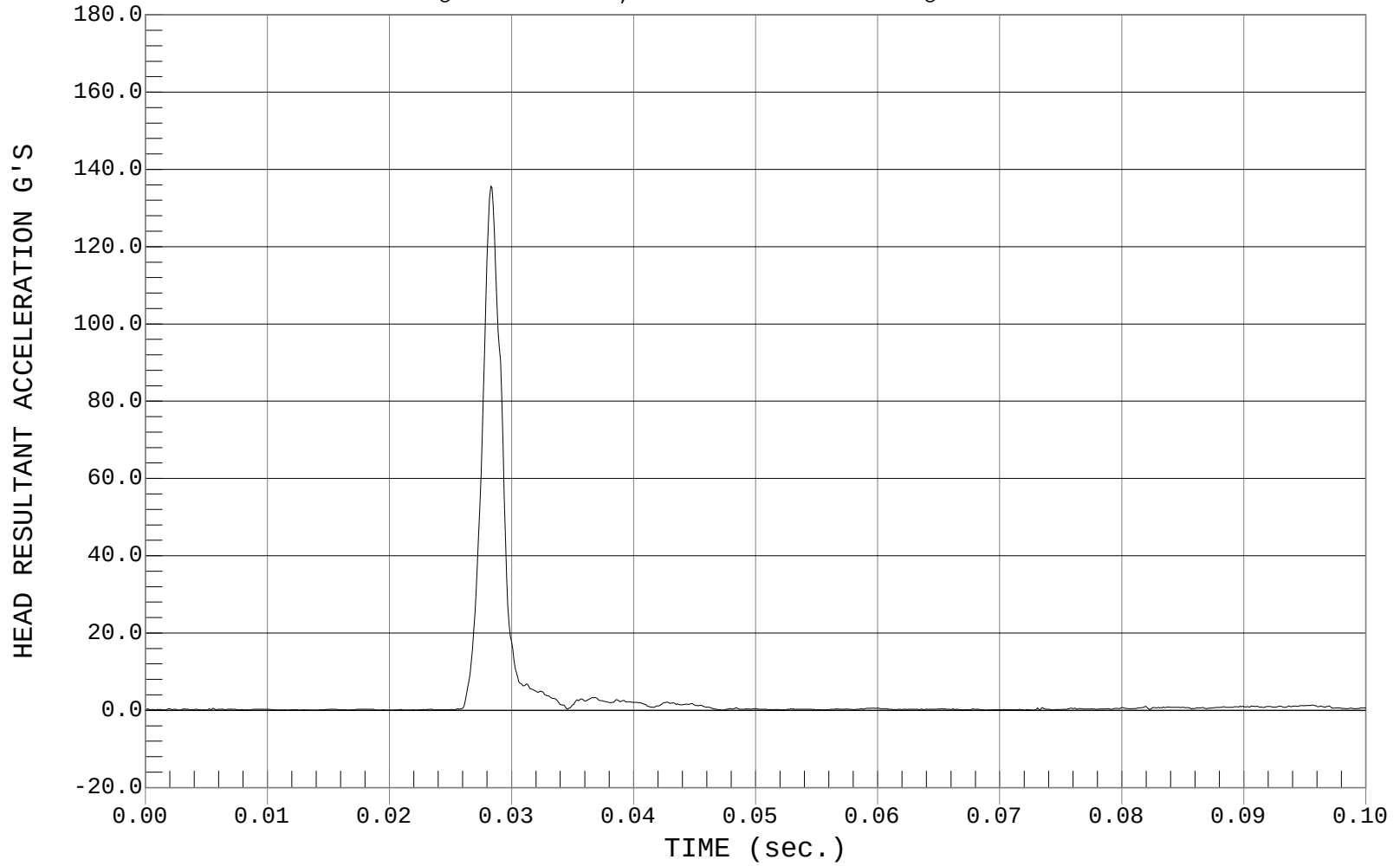
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #010

Test Date: 10-09-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01451AV.A01

Ymin = .07 G'S @ 0.0027 sec., Ymax = 135.68 G'S @ 0.0283 sec.



MGA RESEARCH CORPORATION
NECK PENDULUM TEST
EUROSID 2 DUMMY

Date: 10/10/01

Dummy Serial Number: 010

Test Number: D011452

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.3
Relative Humidity (%)		10 – 70	54
Pendulum Speed		3.3 - 3.5	3.4
Pendulum Deceleration	3 msec	1.25 - 1.53 m/sec	-.35
	8 msec	1.59 - 2.04 m/sec	-1.73
	14 msec	3.20 - 3.85 m/sec	-3.38
Maximum Flexion Angle		49.0 – 59.0 deg	58.7
Time of Max. Flexion Angle		54.0 – 66.0 ms	59.0
Maximum Angle Theta (A)		32.0 – 37.0 deg	35.2
Time of Max. Theta (A)		53.0 – 63.0 ms	59.0
Maximum Angle Theta (B)		30.26 – 32.76 deg	31.13
Time of Max. Theta (B)		54.0 – 64.0 ms	60.4

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



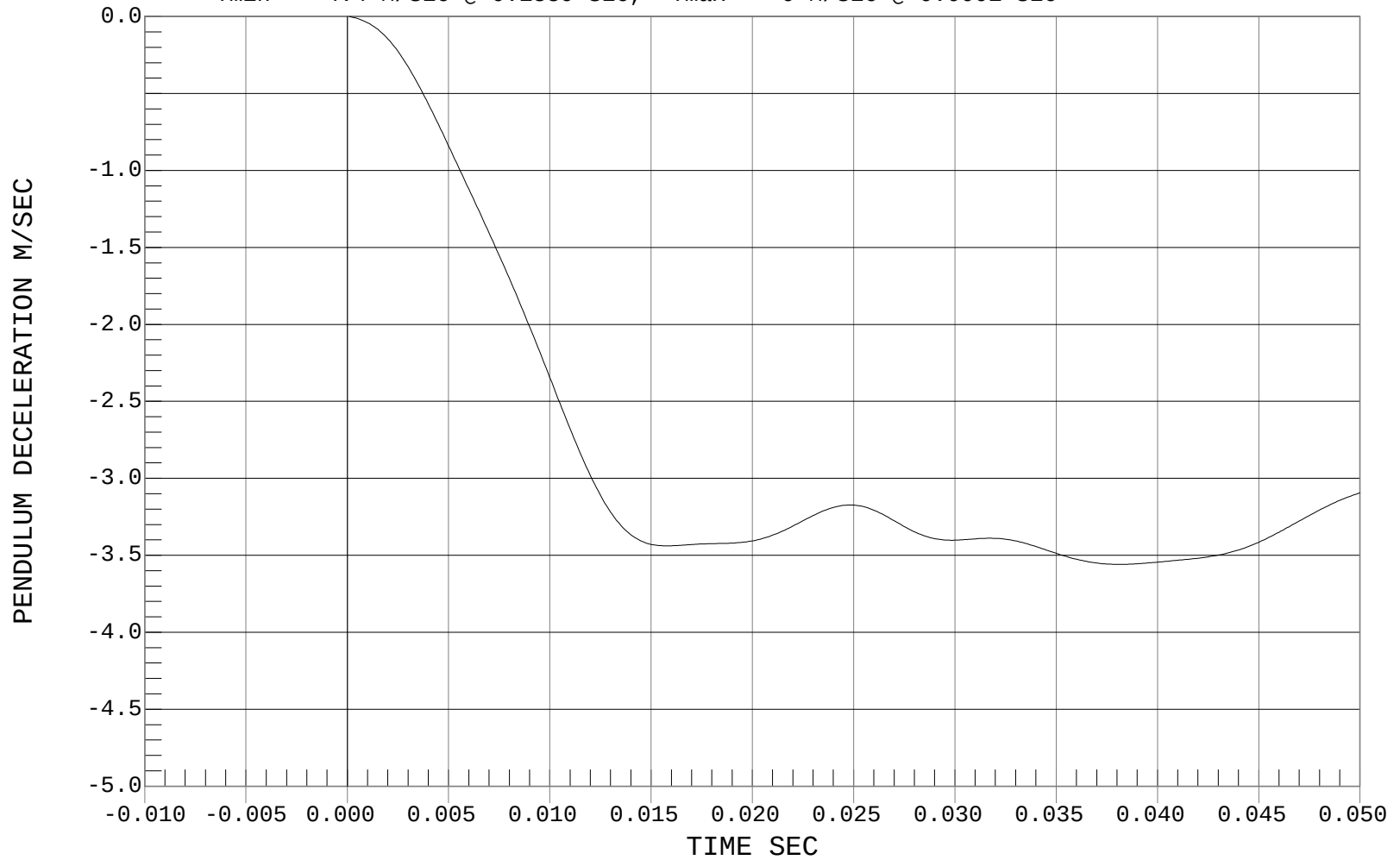
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #010

Test Date: 10-10-01
Speed: 11.08 FT/SEC, 3.38 M/SEC

— 1 PENDULUM DECELERATION, D01452AI.V04

Ymin = -4.4 M/SEC @ 0.01889 SEC, Ymax = 0 M/SEC @ 0.00001 SEC





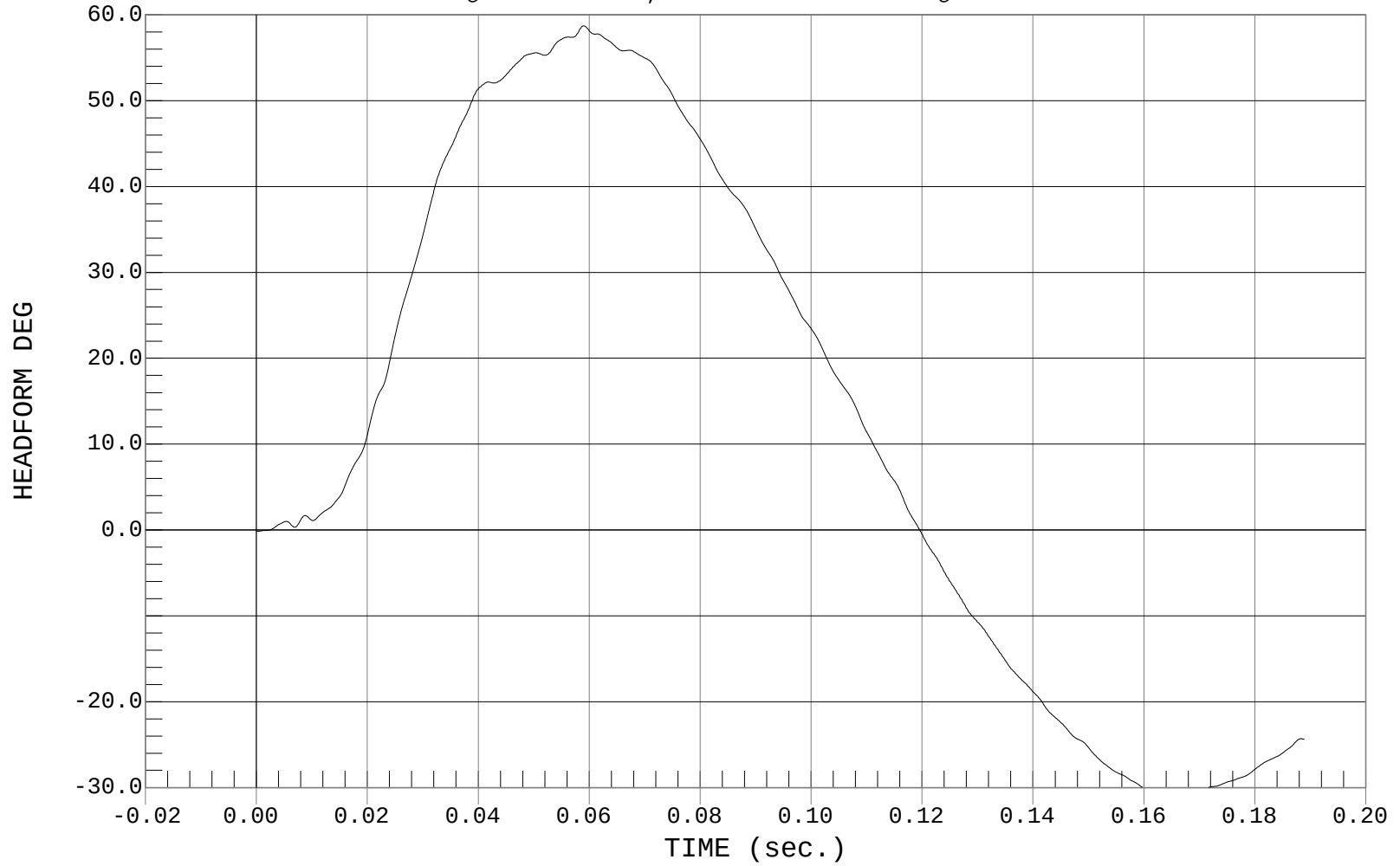
FLEXION ANGLE

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #010

Test Date: 10-10-01
Speed: 11.08 FT/SEC, 3.38 M/SEC

— 1 HEADFORM, D01452DT.D08

Ymin = -30.82 DEG @ 0.1653 sec., Ymax = 58.72 DEG @ 0.0590 sec.





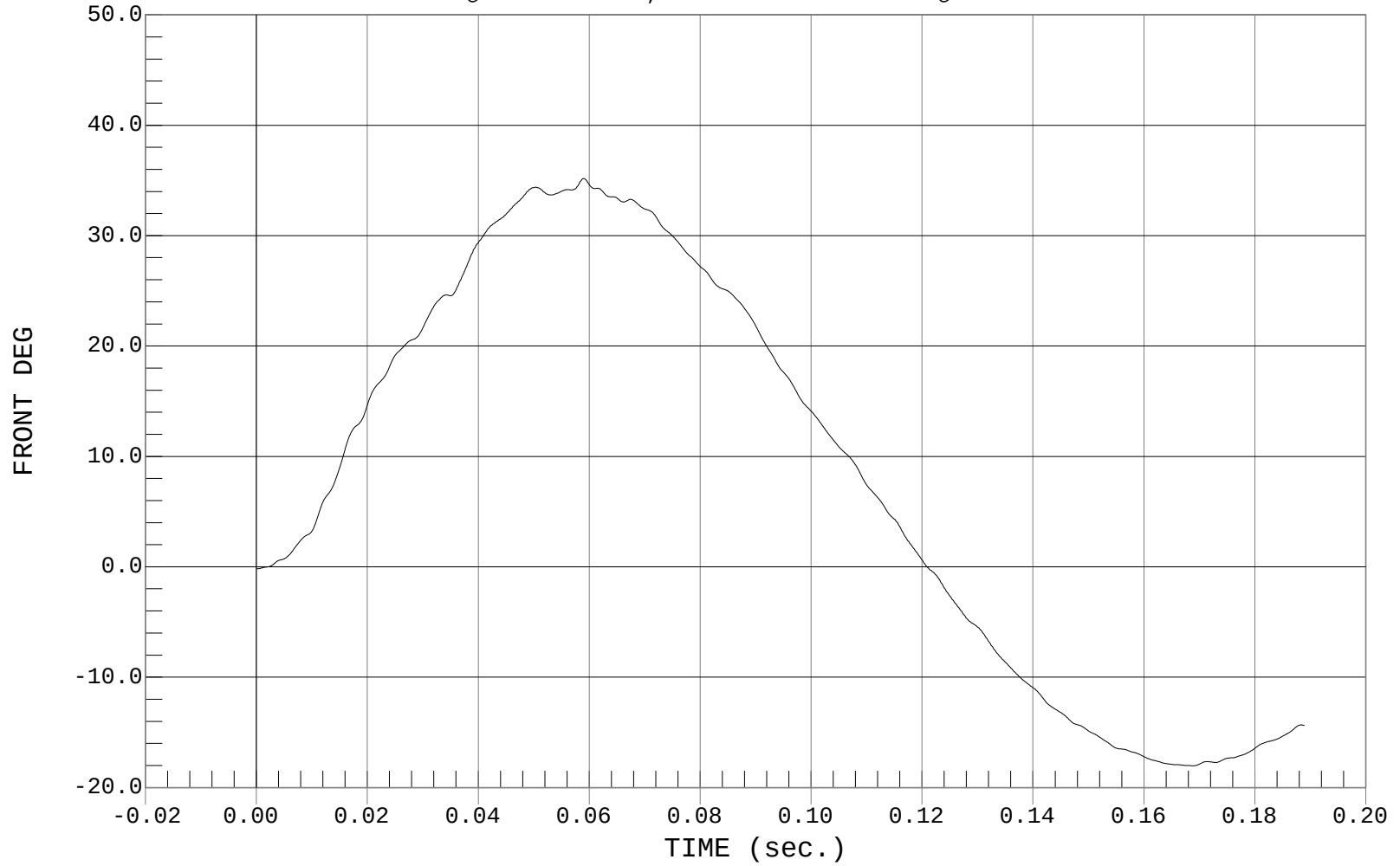
THETA A

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #010

Test Date: 10-10-01
Speed: 11.08 FT/SEC, 3.38 M/SEC

— 1 FRONT, D01452DT.D05

Ymin = -18.03 DEG @ 0.1688 sec., Ymax = 35.18 DEG @ 0.0590 sec.





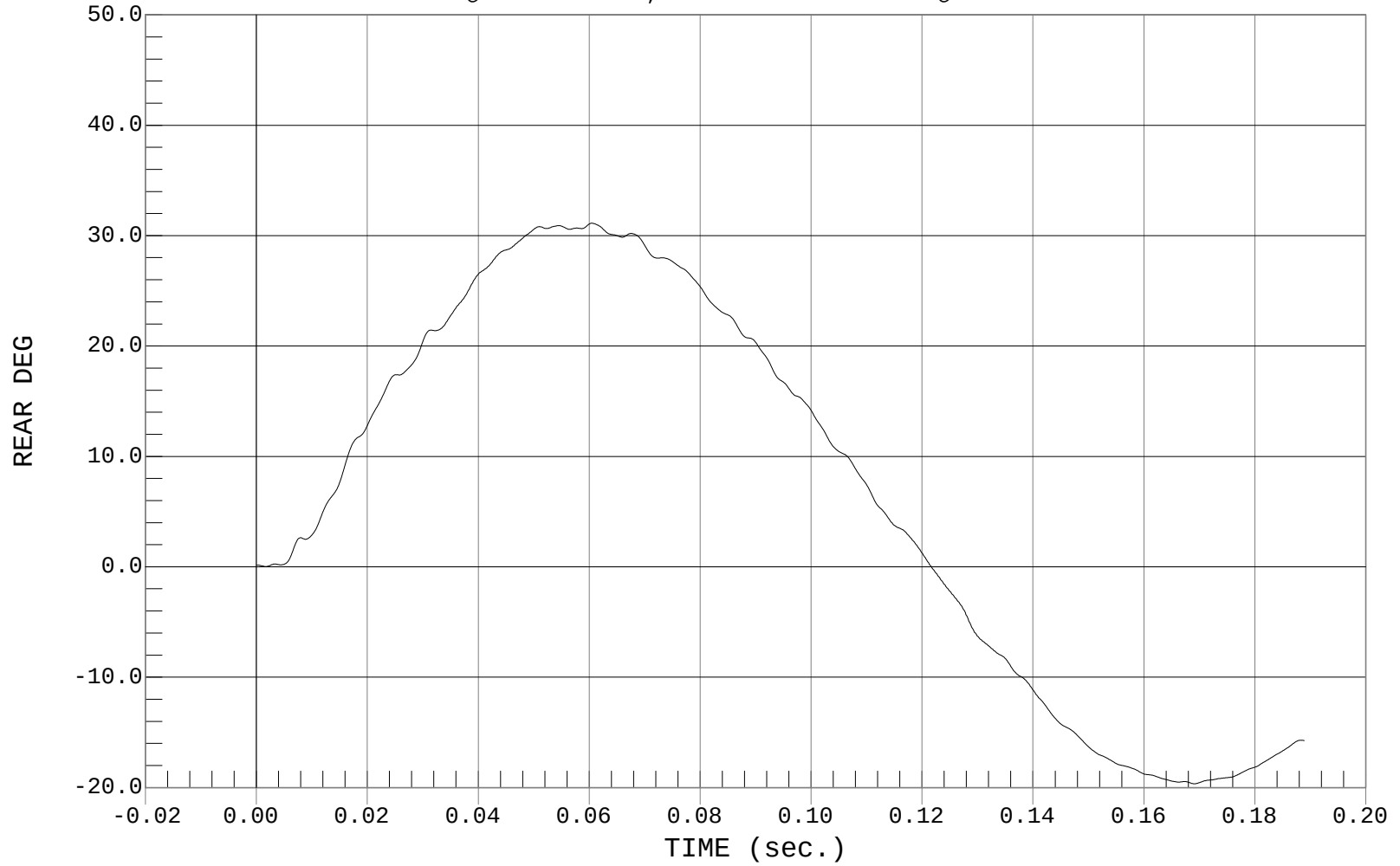
THETA B

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #010

Test Date: 10-10-01
Speed: 11.08 FT/SEC, 3.38 M/SEC

— 1 REAR, D01452DT.D06

Ymin = -19.66 DEG @ 0.1691 sec., Ymax = 31.13 DEG @ 0.0604 sec.



MGA RESEARCH CORPORATION
SHOULDER IMPACT TEST
EUROSID 2 DUMMY

Date: 10/11/01

Dummy Serial Number: 010

Test Number: D011453

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.9
Relative Humidity (%)	10 – 70	44
Pendulum Speed	4.2 – 4.4 m/s	4.3
Max. Resultant Acceleration	7.5 – 10.5 g's	10.0
Time of Max. Pendulum Acceleration		28.3 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



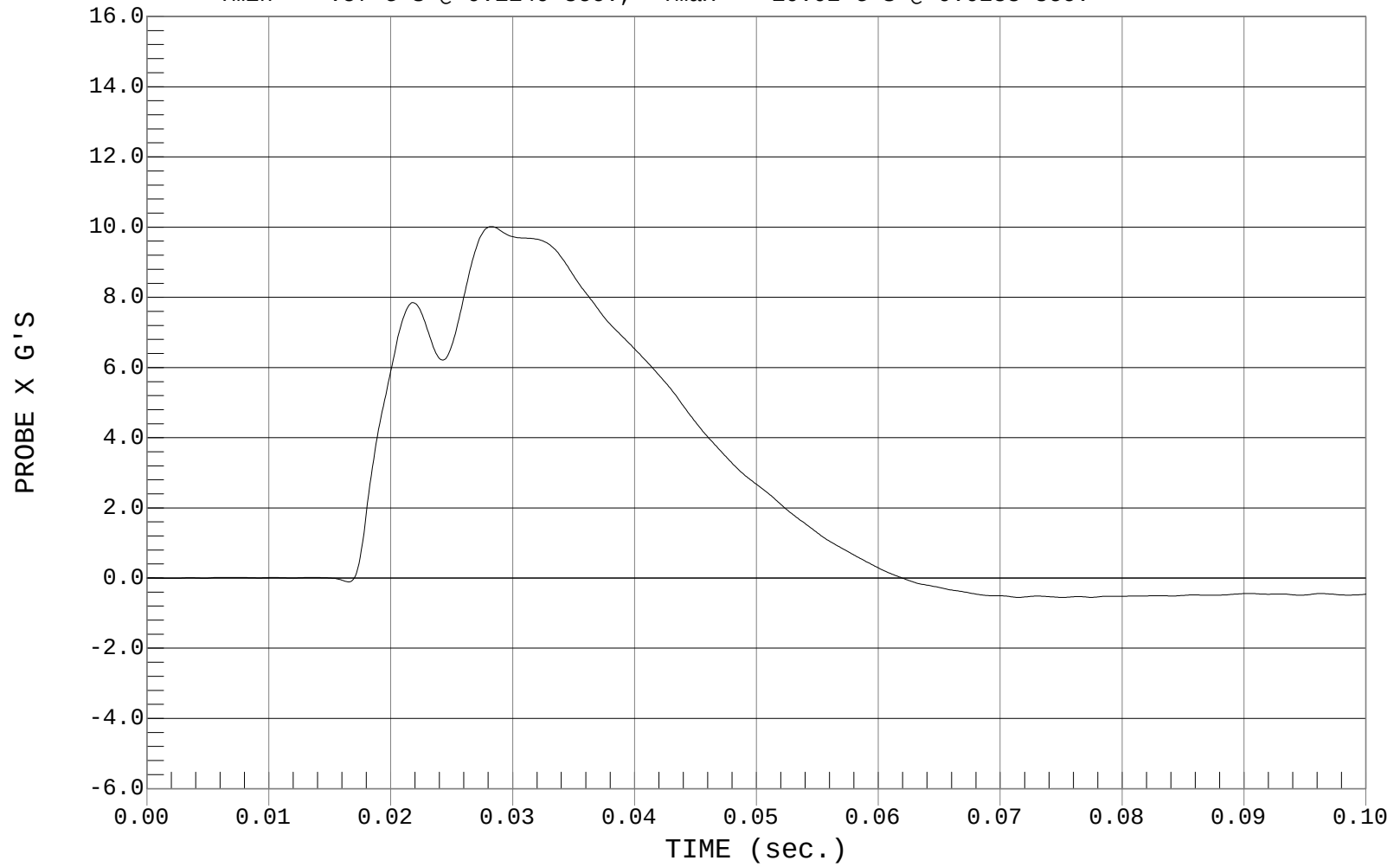
SHOULDER ACCELERATION

Test Desc.: Dummy Calibration - Shoulder Impact
Component: Dummy #010

Test Date: 10-11-01
Speed: 13.97 FT/SEC, 4.26 M/SEC

— 1 PROBE X, D01453AF.A01

Ymin = -0.57 G'S @ 0.1149 sec., Ymax = 10.02 G'S @ 0.0283 sec.



MGA RESEARCH CORPORATION
UPPER/MIDDLE/LOWER RIB TESTS
SIDE IMPACT DUMMY (SID)

Date: 10/8-9/01
Dummy Serial Number: 010
Test Number: D01454/5/6

UPPER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.9
Relative Humidity (%)	10 – 70	36
Displacement at 2 m/s	23.5 – 27.5 mm	27.3
Displacement at 3 m/s	36.0 – 40.0 mm	39.6
Displacement at 4 m/s	46.0 – 51.0 mm	50.7

MIDDLE RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.5
Relative Humidity (%)	10 – 70	38
Displacement at 2 m/s	23.5 – 27.5 mm	25.9
Displacement at 3 m/s	36.0 – 40.0 mm	37.8
Displacement at 4 m/s	46.0 – 51.0 mm	49.7

LOWER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.8
Relative Humidity (%)	10 – 70	38
Displacement at 2 m/s	23.5 – 27.5 mm	24.2
Displacement at 3 m/s	36.0 – 40.0 mm	37.7
Displacement at 4 m/s	46.0 – 51.0 mm	49.1

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



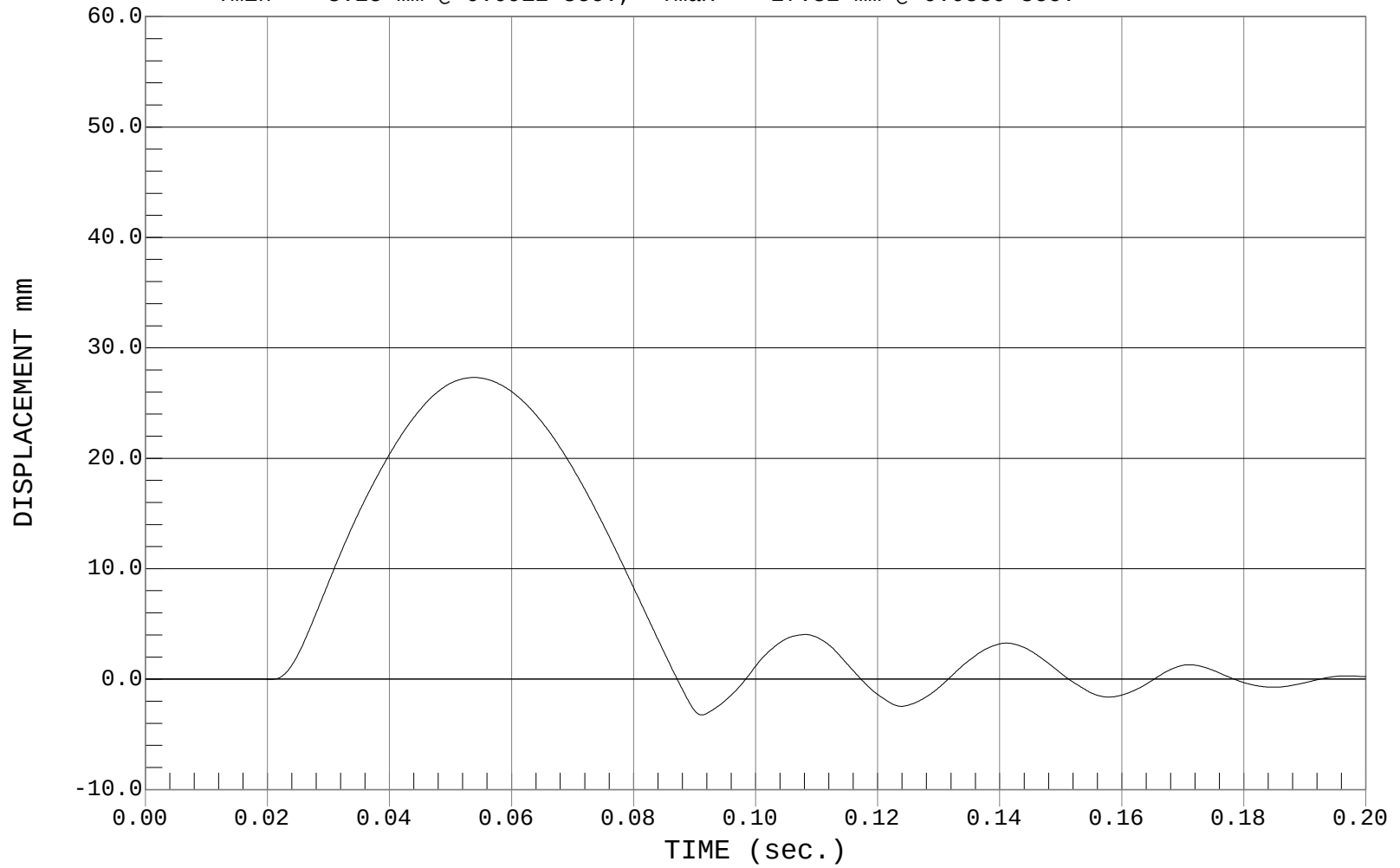
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-08-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

1 DISPLACEMENT, D01454DF.D05

Ymin = -3.25 mm @ 0.0912 sec., Ymax = 27.32 mm @ 0.0539 sec.





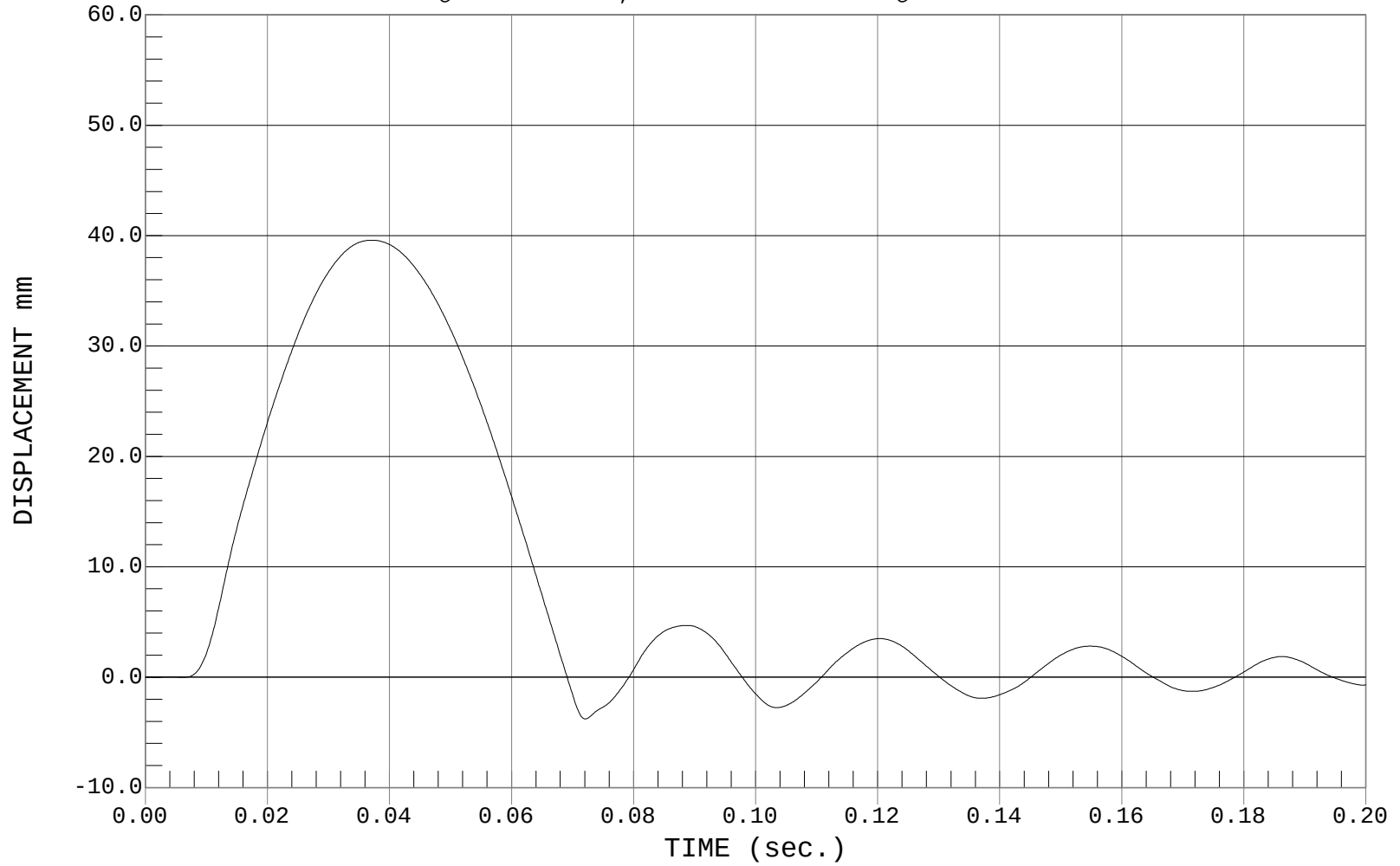
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-08-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01454DF.D06

Ymin = -3.78 mm @ 0.0721 sec., Ymax = 39.58 mm @ 0.0371 sec.





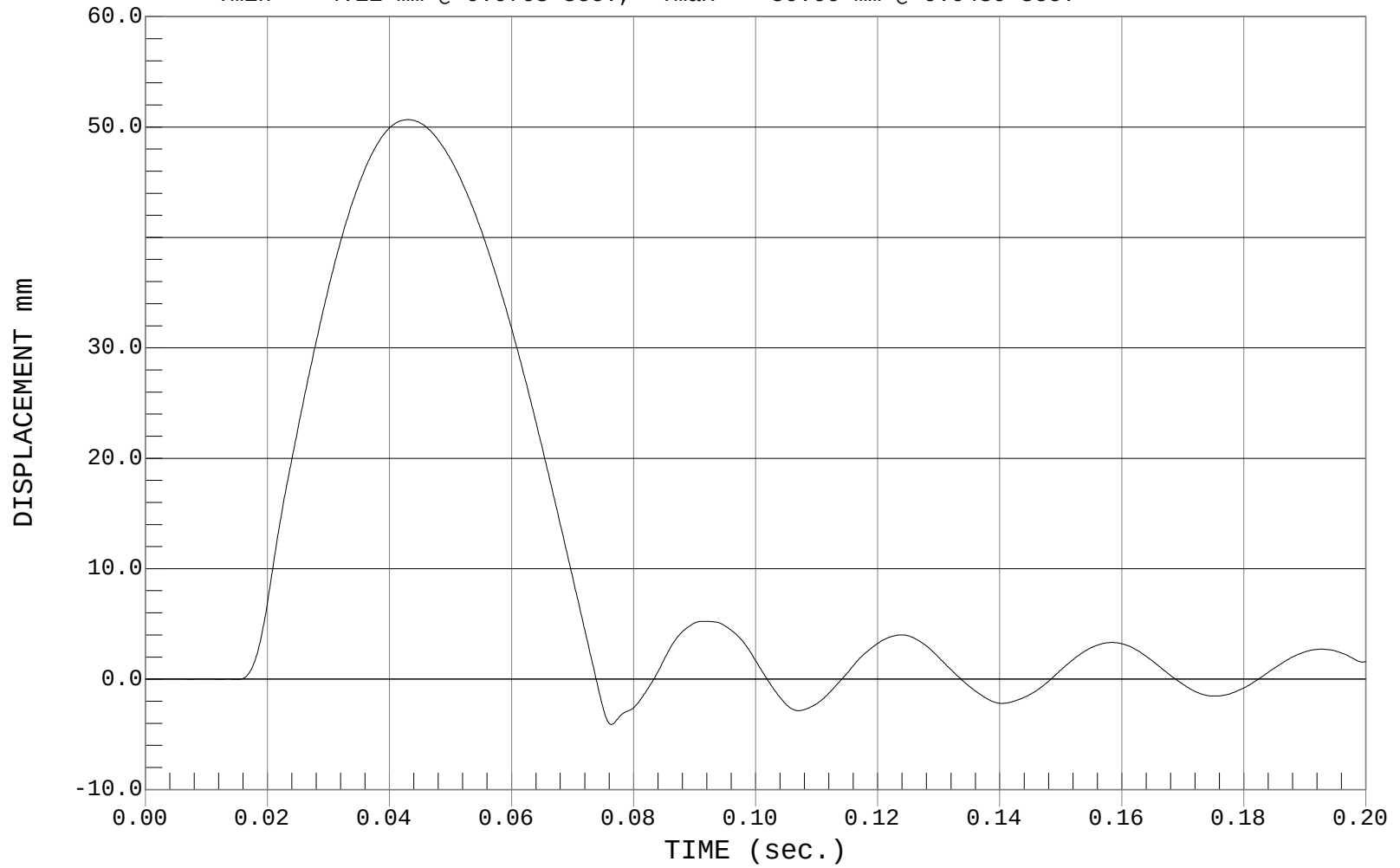
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-08-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01454DF.D07

Ymin = -4.11 mm @ 0.0763 sec., Ymax = 50.66 mm @ 0.0430 sec.





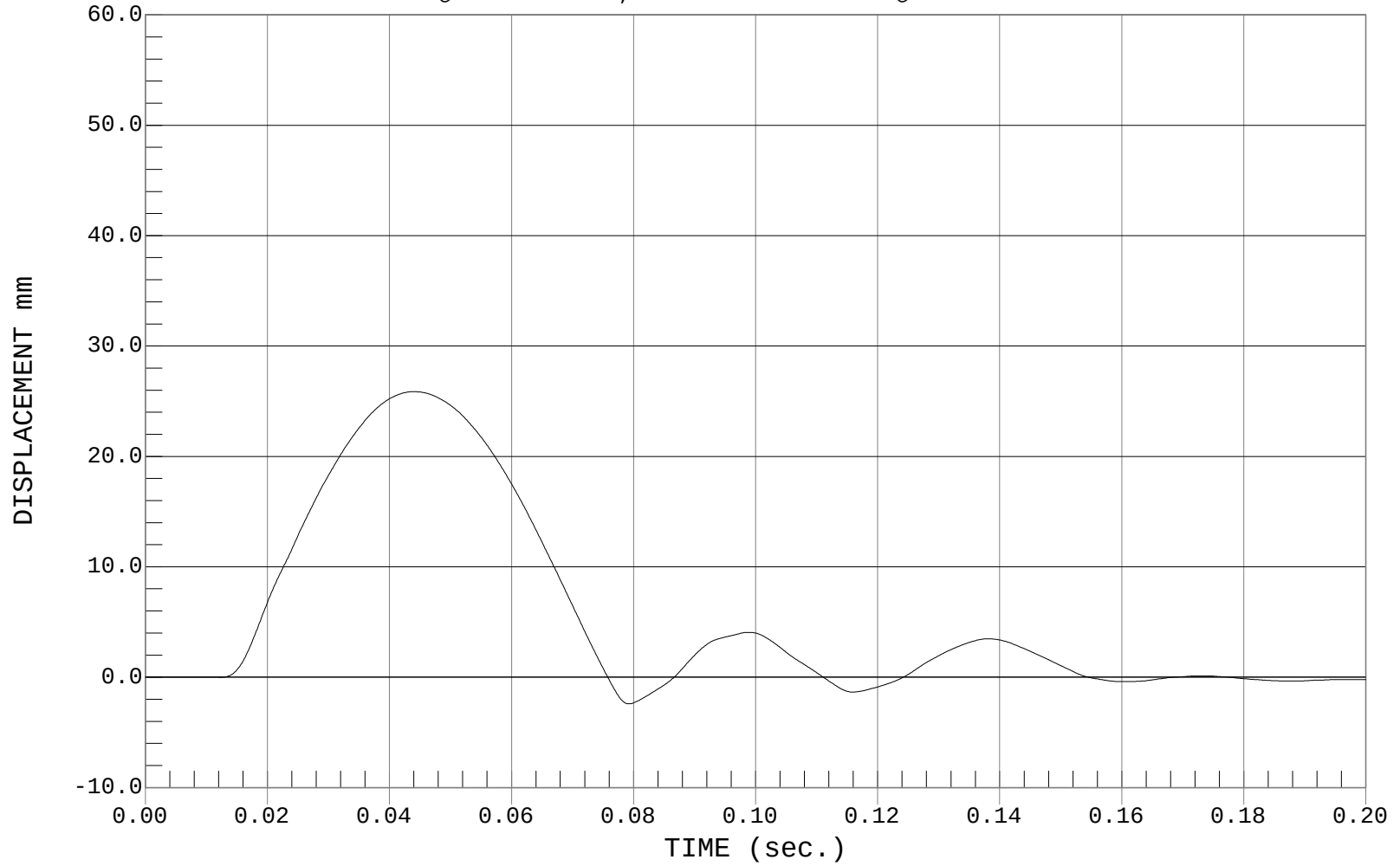
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-09-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01455DF.D05

Ymin = -2.42 mm @ 0.0792 sec., Ymax = 25.87 mm @ 0.0439 sec.





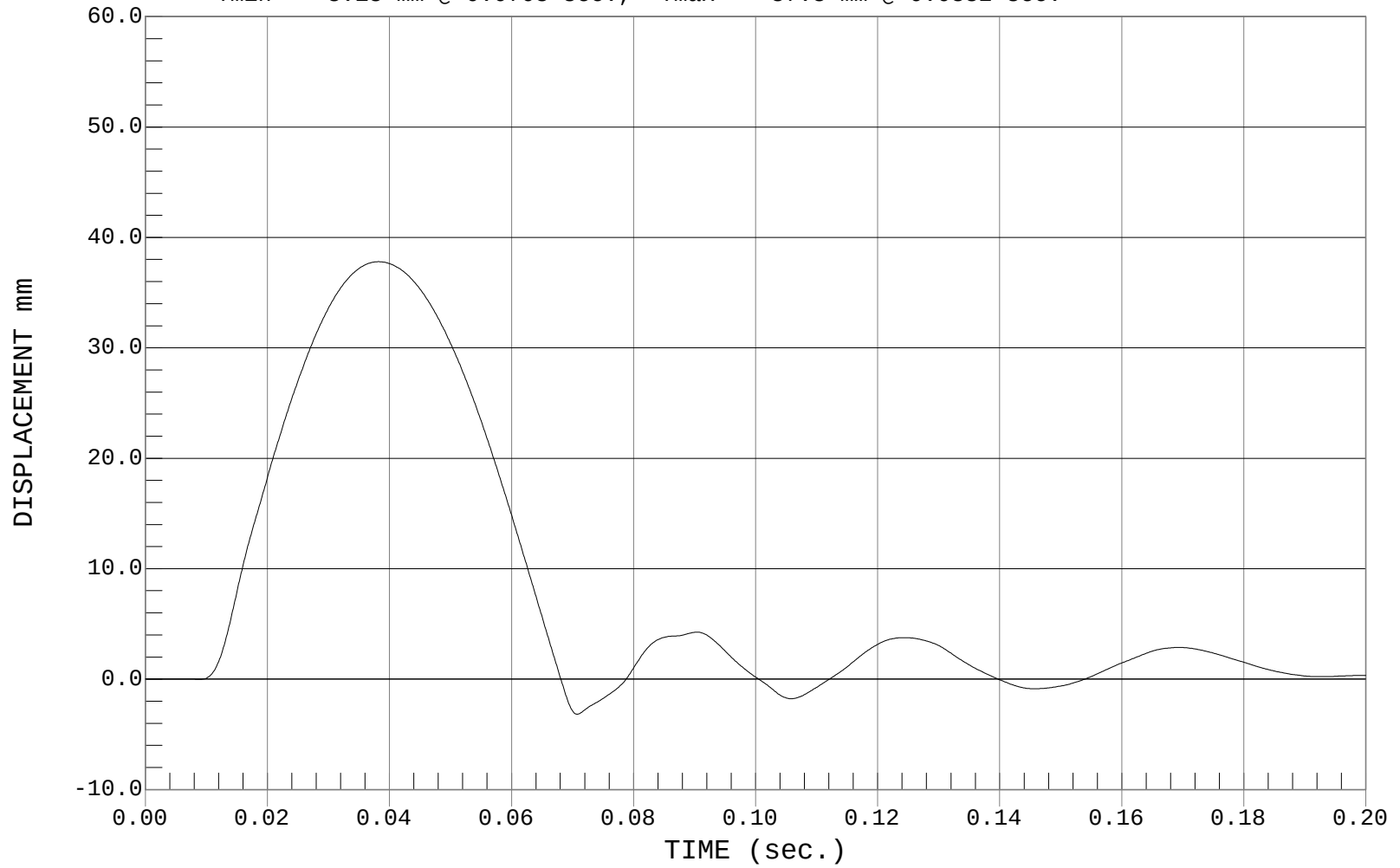
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-09-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01455DF.D06

Ymin = -3.18 mm @ 0.0708 sec., Ymax = 37.8 mm @ 0.0382 sec.





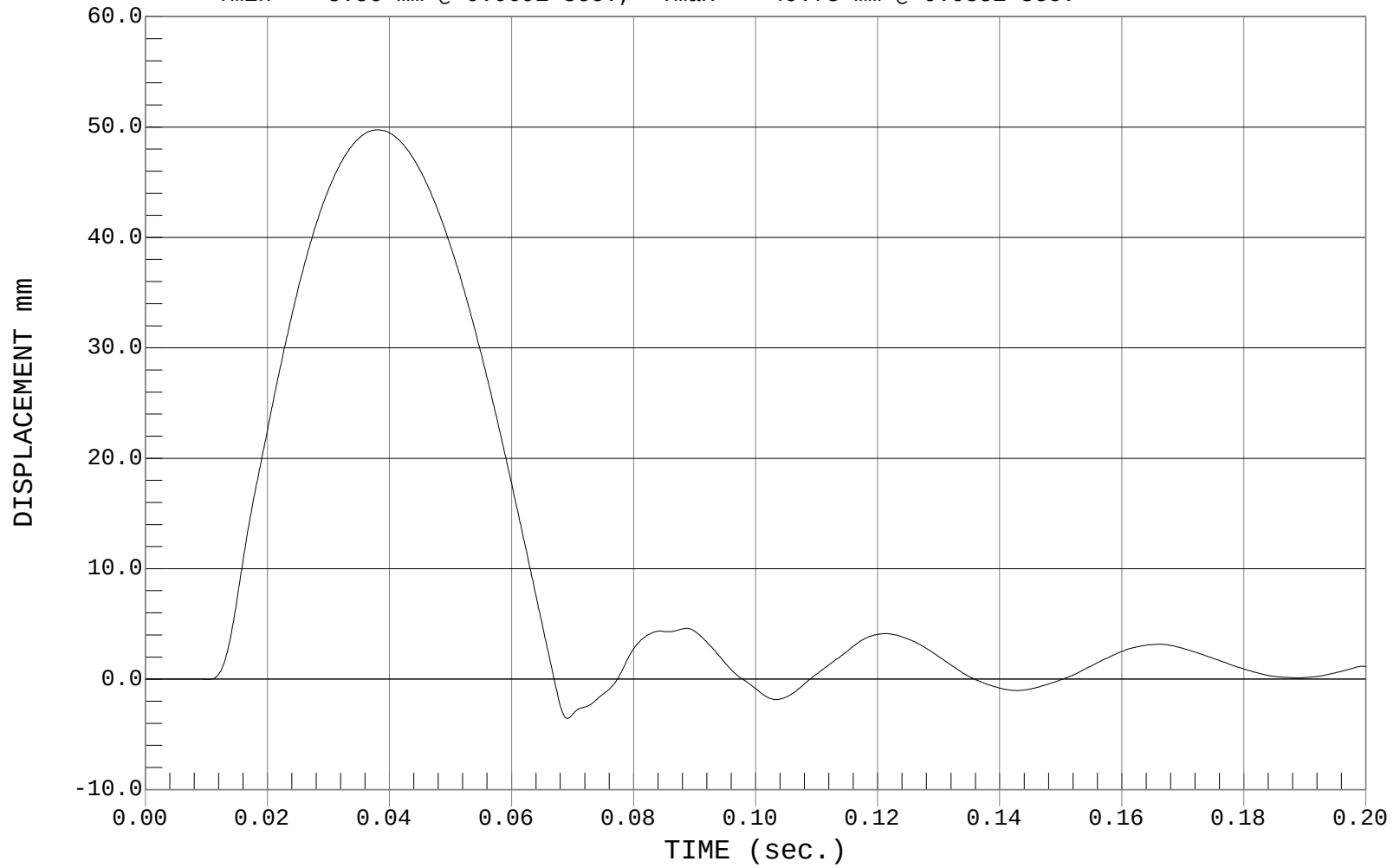
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-09-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01455DF.D07

Ymin = -3.56 mm @ 0.0691 sec., Ymax = 49.73 mm @ 0.0381 sec.





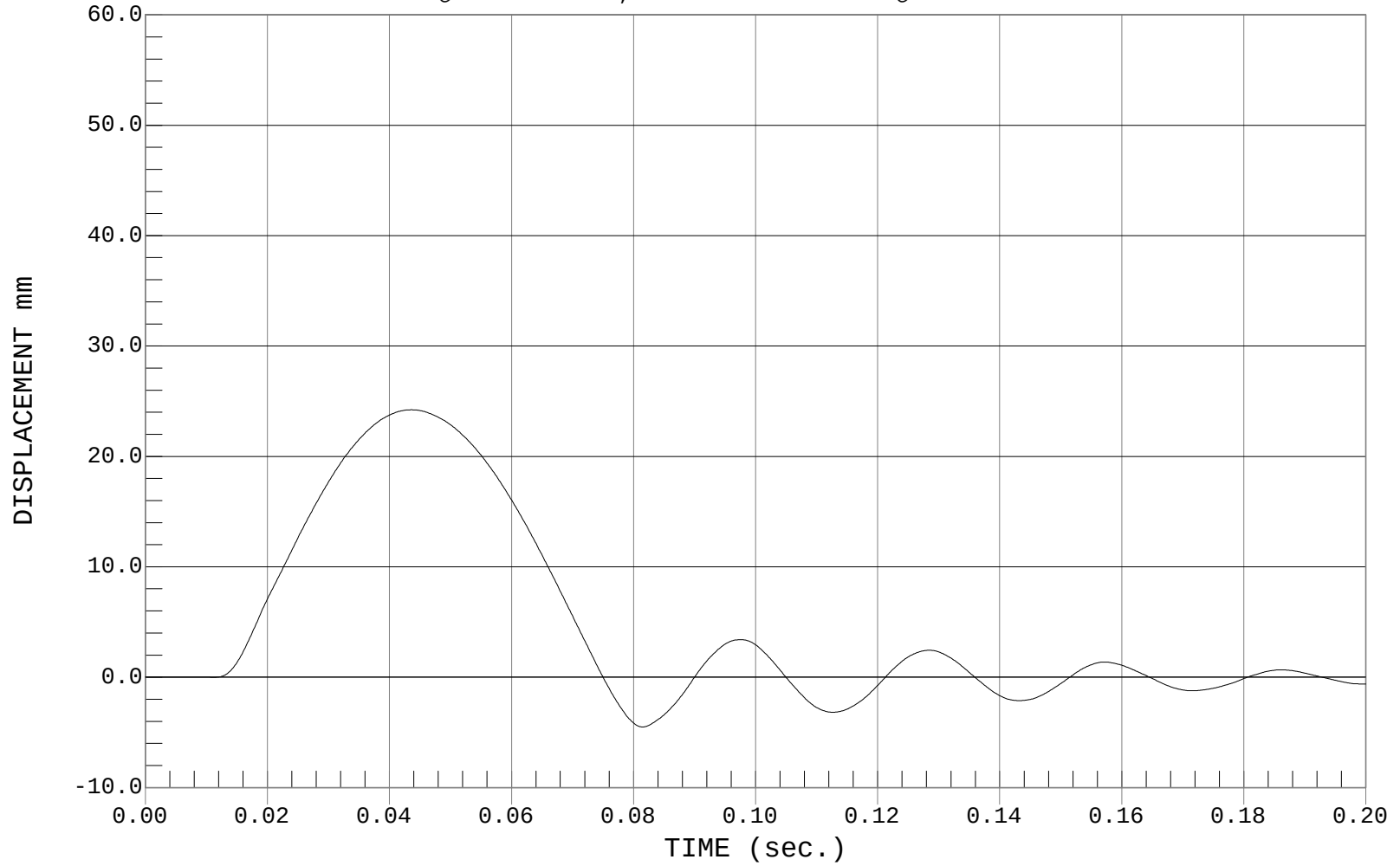
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-09-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01456DF.D05

Ymin = -4.51 mm @ 0.0815 sec., Ymax = 24.22 mm @ 0.0436 sec.





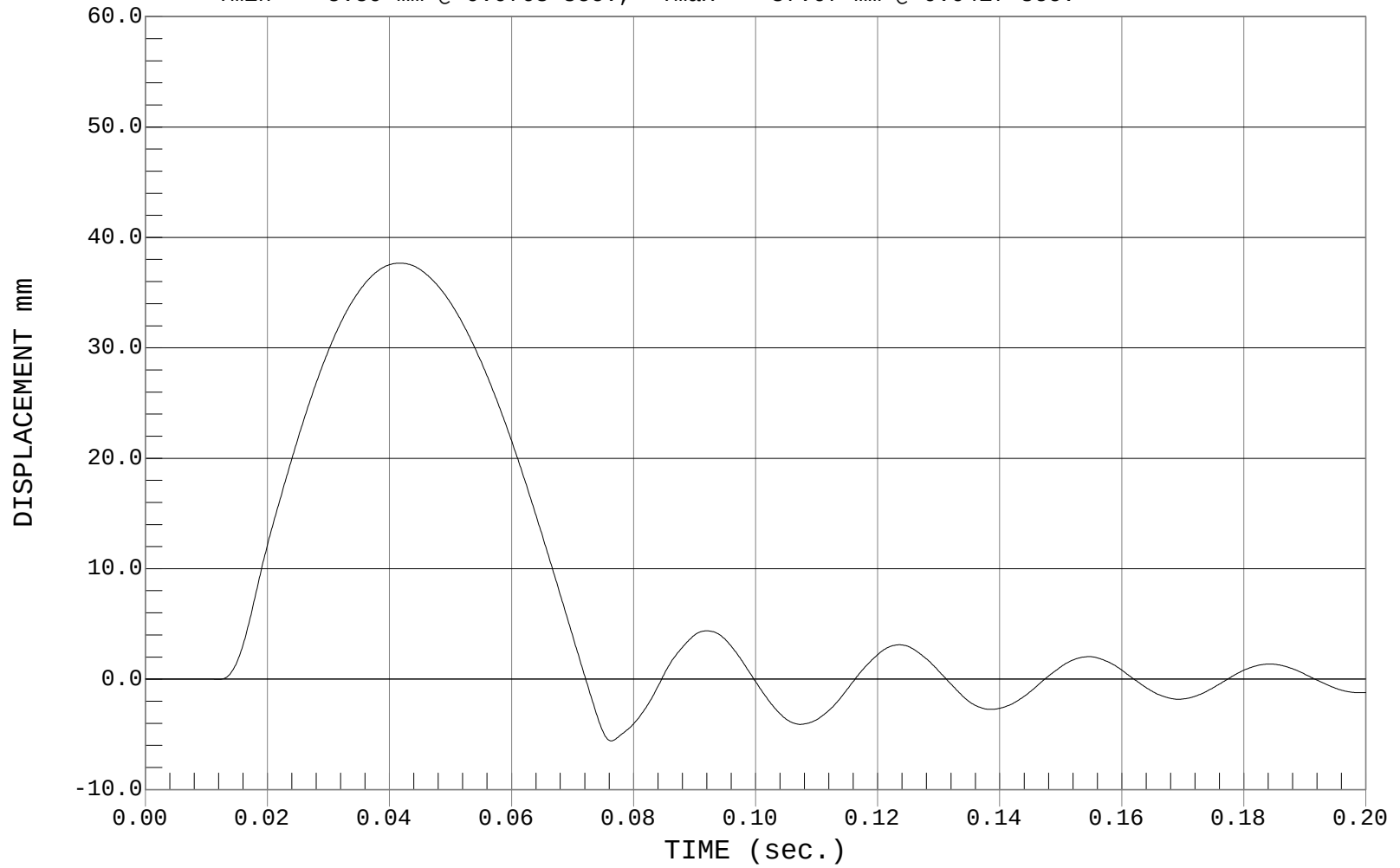
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-09-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01456DF.D06

Ymin = -5.59 mm @ 0.0763 sec., Ymax = 37.67 mm @ 0.0417 sec.





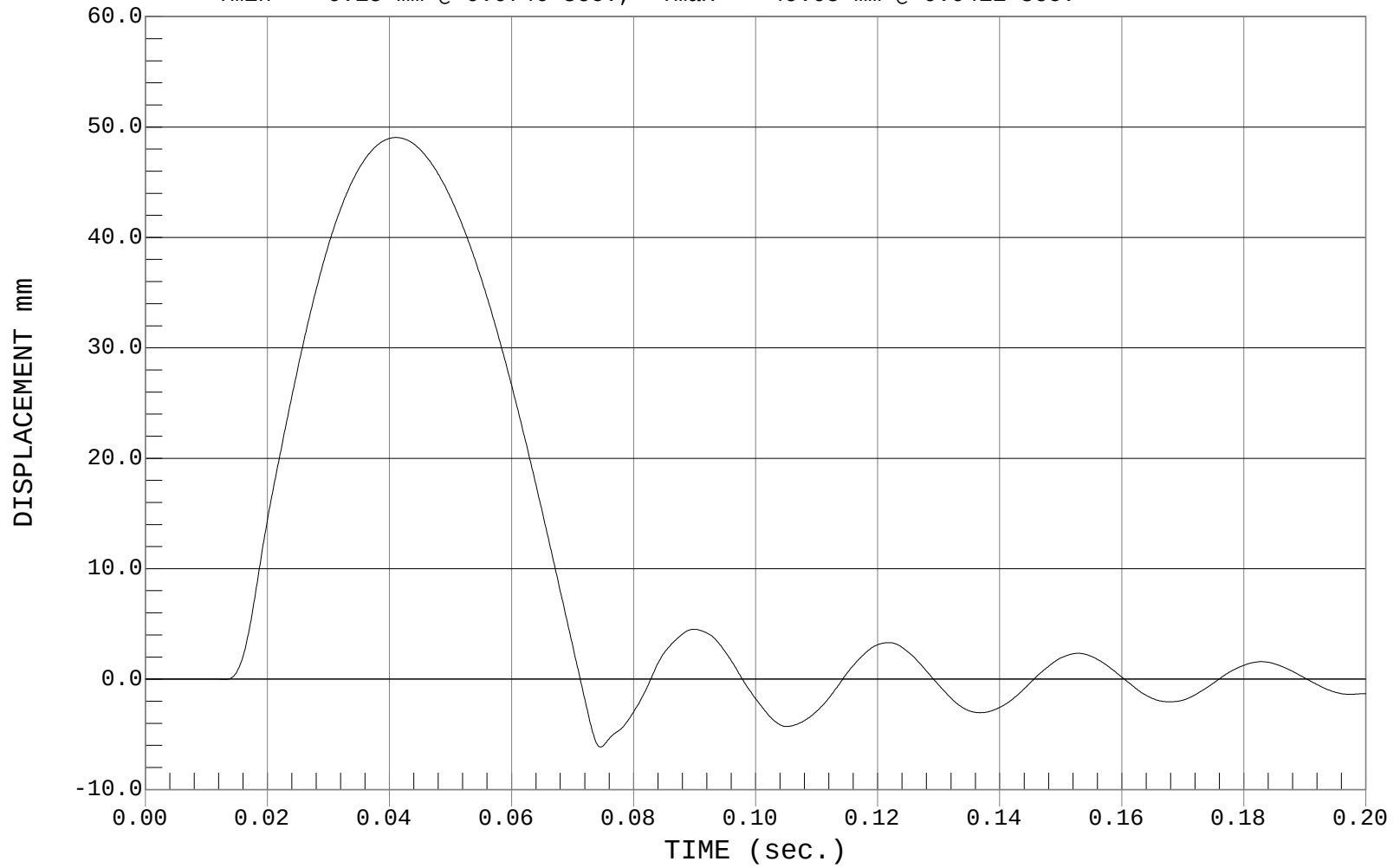
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #010

Test Date: 10-09-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01456DF.D07

Ymin = -6.15 mm @ 0.0746 sec., Ymax = 49.05 mm @ 0.0411 sec.



MGA RESEARCH CORPORATION
ABDOMEN TEST
EUROSID 2 DUMMY

Date: 10/11/01

Dummy Serial Number: 010

Test Number: D011457

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	22.0
Relative Humidity (%)	10 – 70	45
Probe Speed (m/s)	3.90 – 4.10	3.97
Maximum Impact Force	4.00 – 4.80 kN	4.77
Time of Maximum Force	10.60 – 13.00 ms	12.30
Maximum Total Abdomen Force	2.20 – 2.70 kN	2.29
Time of Max. Total Force	10.00 – 12.30 ms	11.70

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



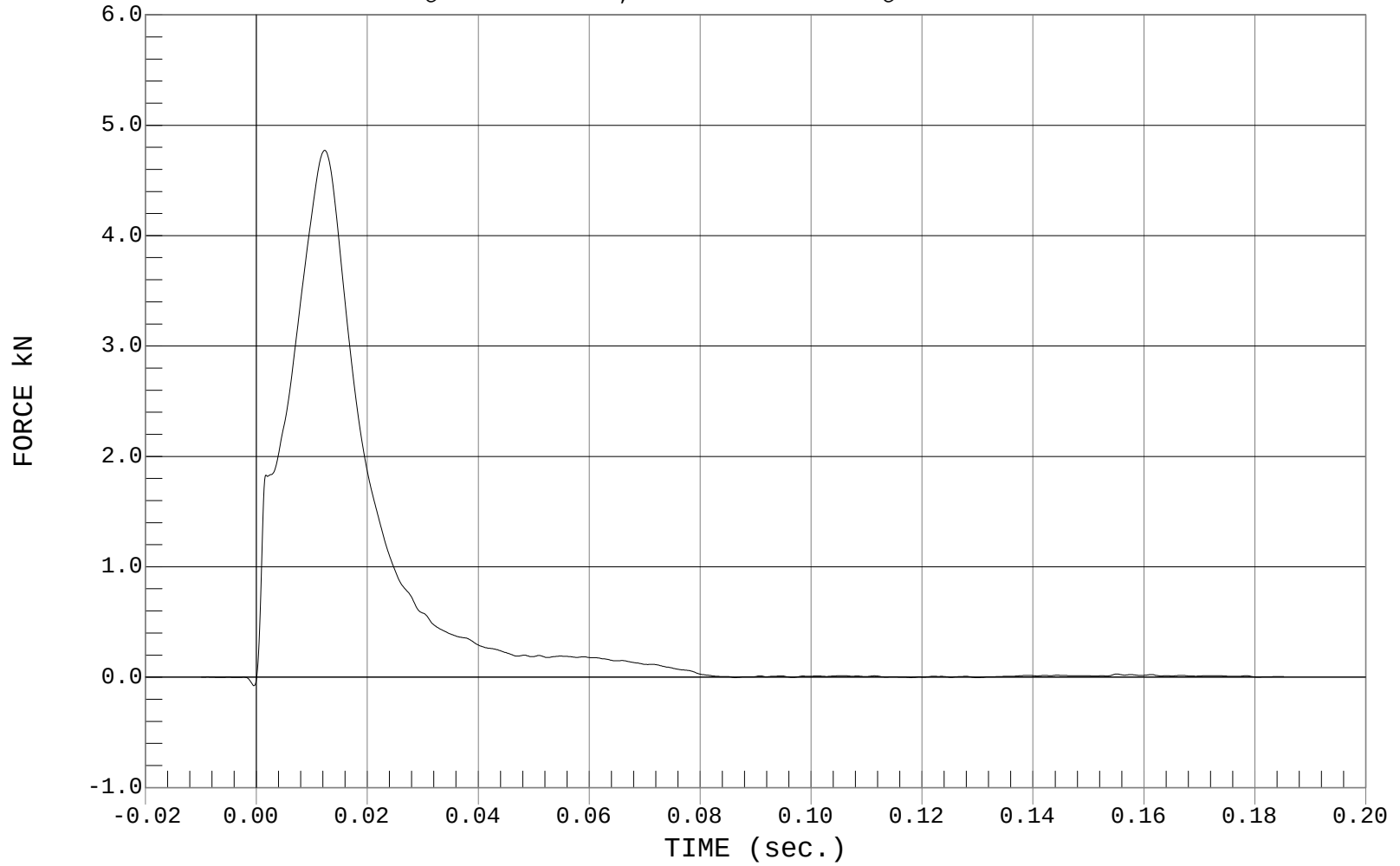
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Abdomen Imapct
Component: Dummy #010

Test Date: 10-11-01
Speed: 13.02 FT/SEC, 3.97 M/SEC

— 1 FORCE, D01457FT.F01

Ymin = -.08 kN @ -0.0004 sec., Ymax = 4.77 kN @ 0.0123 sec.





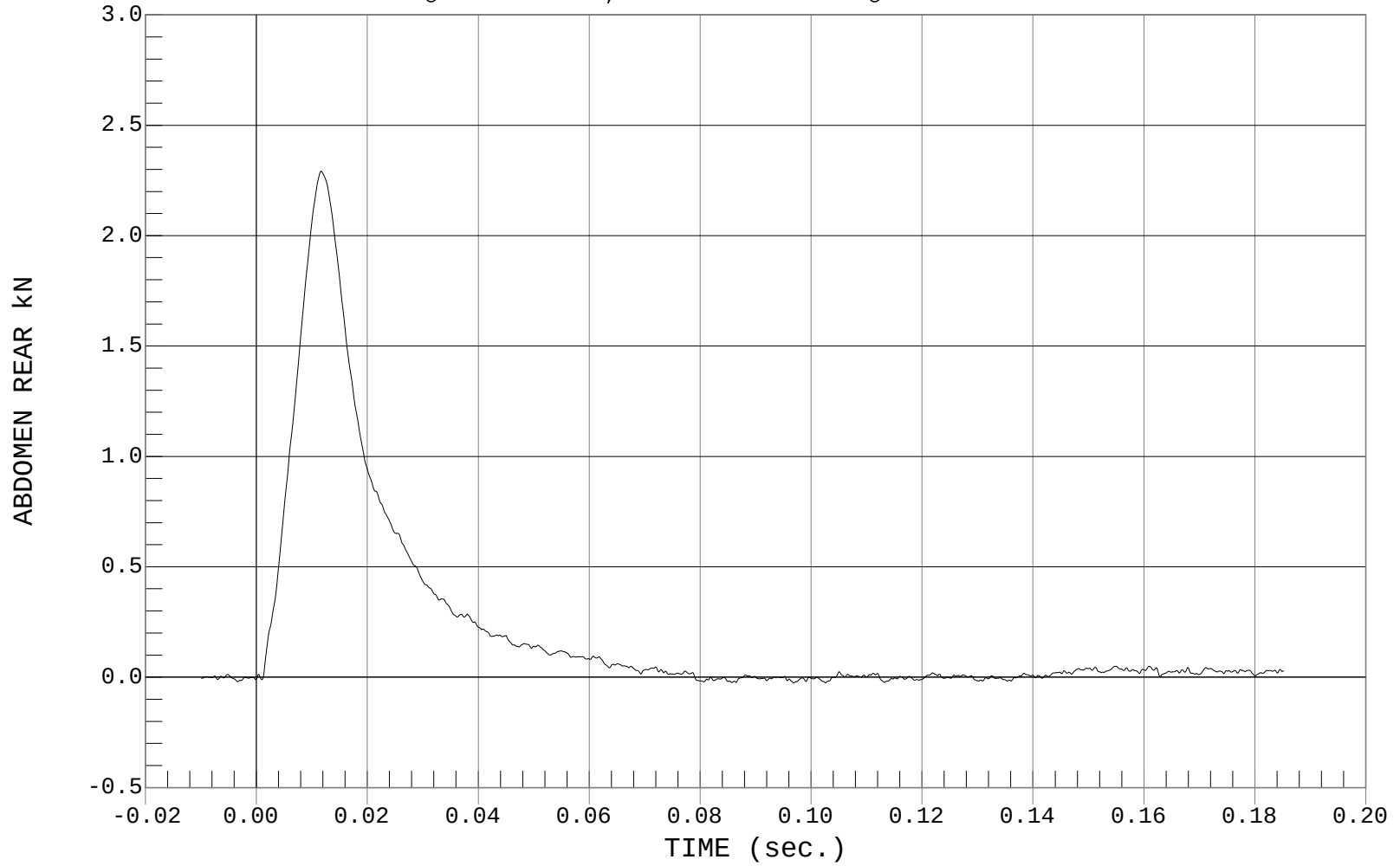
ABDOMEN FORCE

Test Desc.: Dummy Calibration - Abdomen Imapct
Component: Dummy #010

Test Date: 10-11-01
Speed: 13.02 FT/SEC, 3.97 M/SEC

— 1 ABDOMEN REAR, D01457FT.F02

Ymin = -.03 kN @ 0.0969 sec., Ymax = 2.29 kN @ 0.0117 sec.



MGA RESEARCH CORPORATION
LUMBAR SPINE TEST
EUROSID 2 DUMMY

Date: 10/11/01

Dummy Serial Number: 010

Test Number: D011458

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.8
Relative Humidity (%)		10 – 70	46
Pendulum Speed		5.95 – 6.15	6.00
Pendulum Deceleration	10 msec	2.46 - 1.59 m/sec	-1.87
	20 msec	5.25 - 4.07 m/sec	-4.23
	25 msec	6.64 - 5.3 m/sec	-5.31
	30 msec	≥ -6.5 m/sec	-6.00
Maximum Flexion Angle		45.0 – 55.0 deg	48.8
Time of Max. Flexion Angle		39.0 – 53.0 ms	45.2
Maximum Angle Theta (A)		31.0 – 35.0 deg	31.5
Time of Max. Theta (A)		44.0 – 52.0 ms	44.9
Maximum Angle Theta (B)		27.68– 30.18 deg	27.7
Time of Max. Theta (B)		44.0 – 52.0 ms	46.6

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



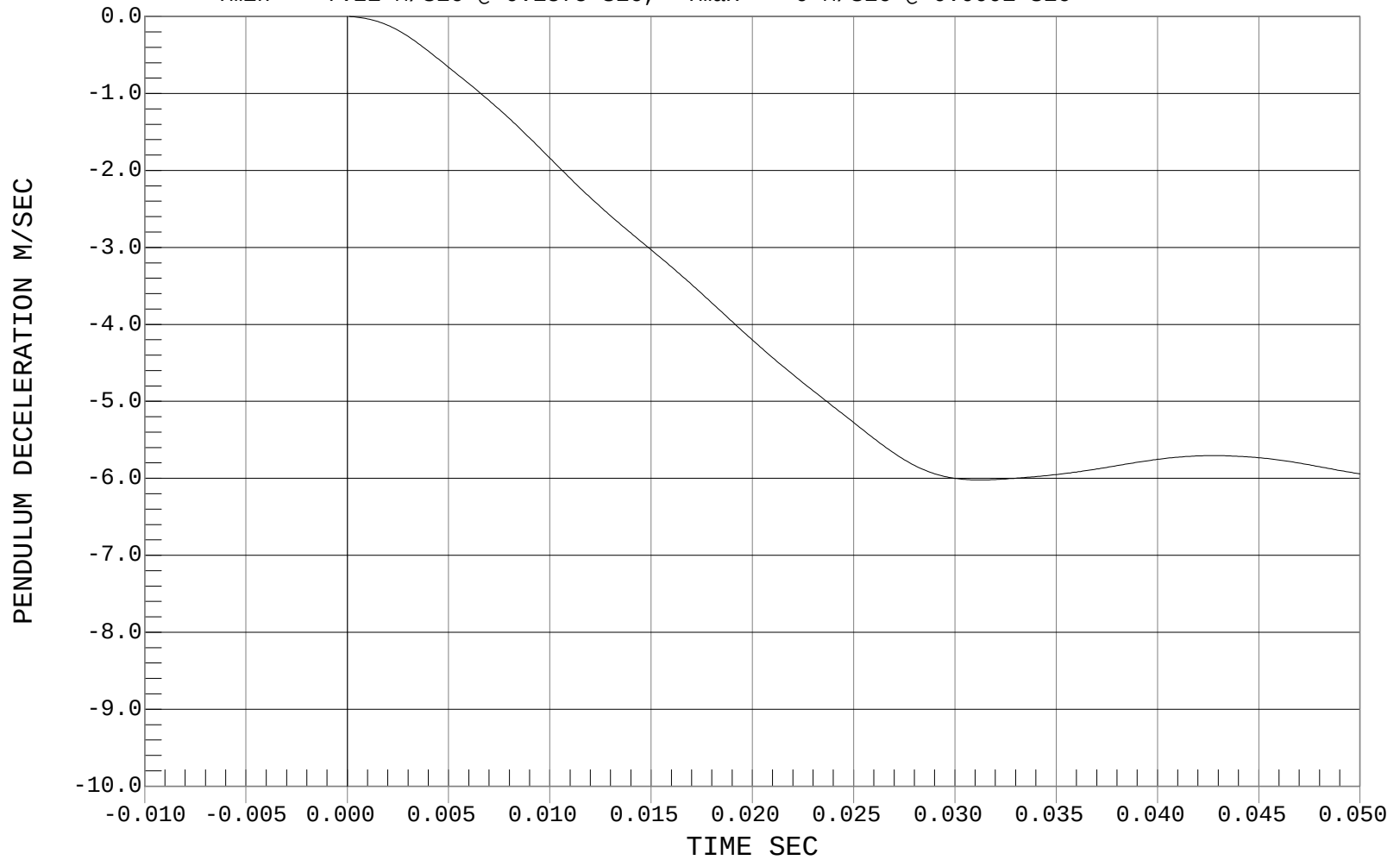
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #010

Test Date: 10-11-01
Speed: 19.69 FT/SEC, 6.00 M/SEC

— 1 PENDULUM DECELERATION, D01458AI.V04

Ymin = -7.21 M/SEC @ 0.1375 SEC, Ymax = 0 M/SEC @ 0.0001 SEC





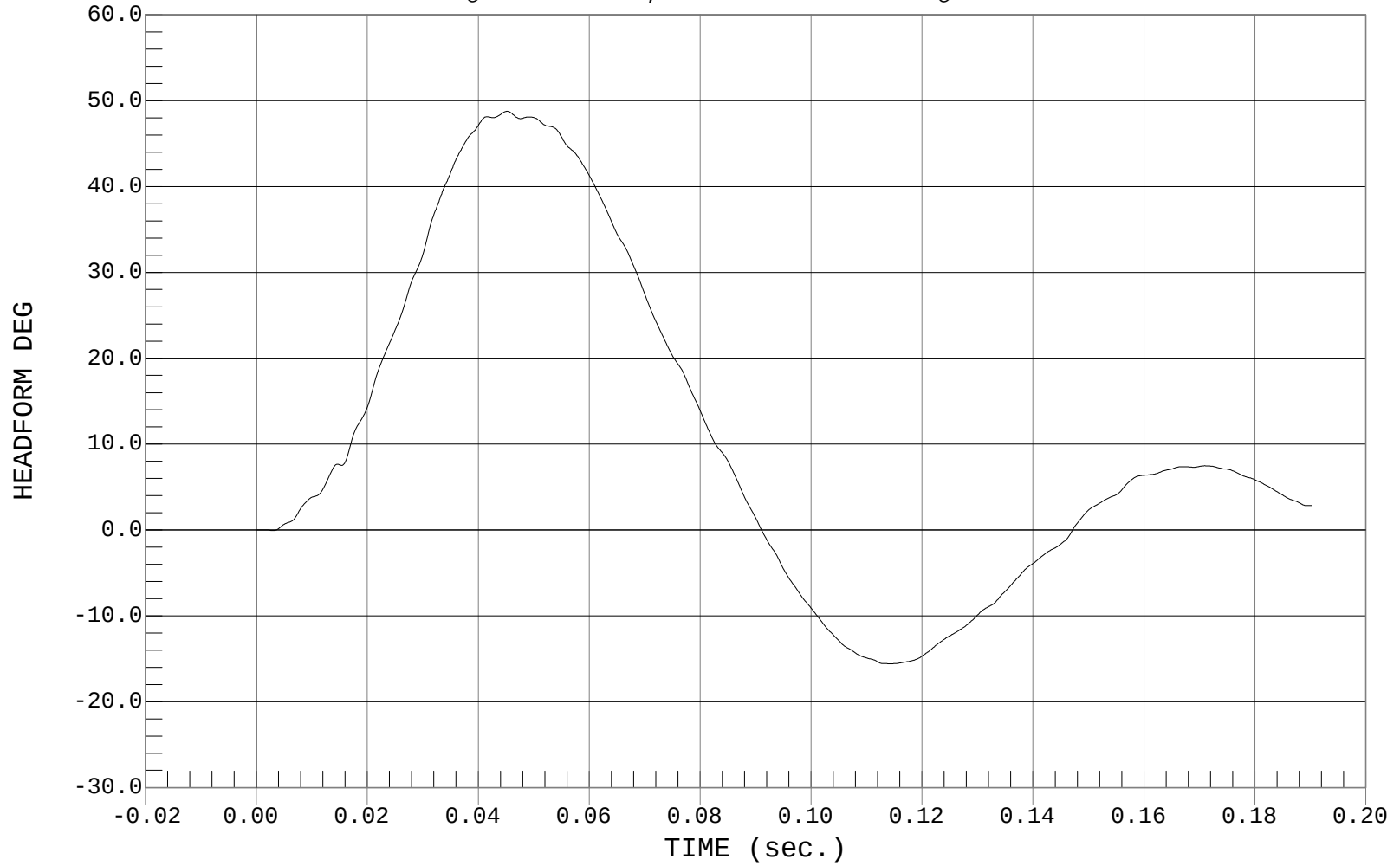
FLEXION ANGLE

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #010

Test Date: 10-11-01
Speed: 19.69 FT/SEC, 6.00 M/SEC

— 1 HEADFORM, D01458DT.D08

Ymin = -15.59 DEG @ 0.1144 sec., Ymax = 48.78 DEG @ 0.0452 sec.





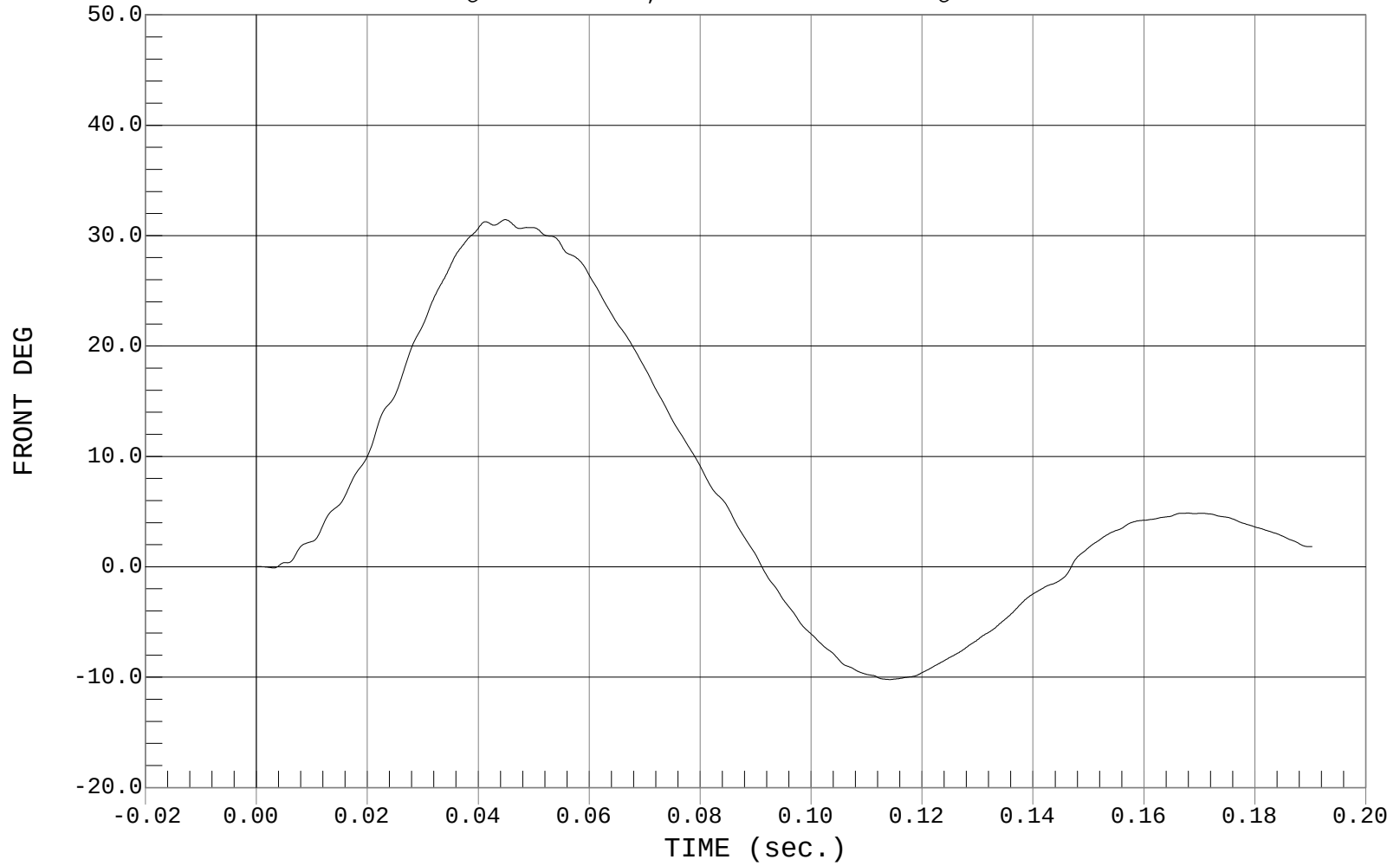
THETA A

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #010

Test Date: 10-11-01
Speed: 19.69 FT/SEC, 6.00 M/SEC

— 1 FRONT, D01458DT.D05

Ymin = -10.21 DEG @ 0.1142 sec., Ymax = 31.45 DEG @ 0.0449 sec.





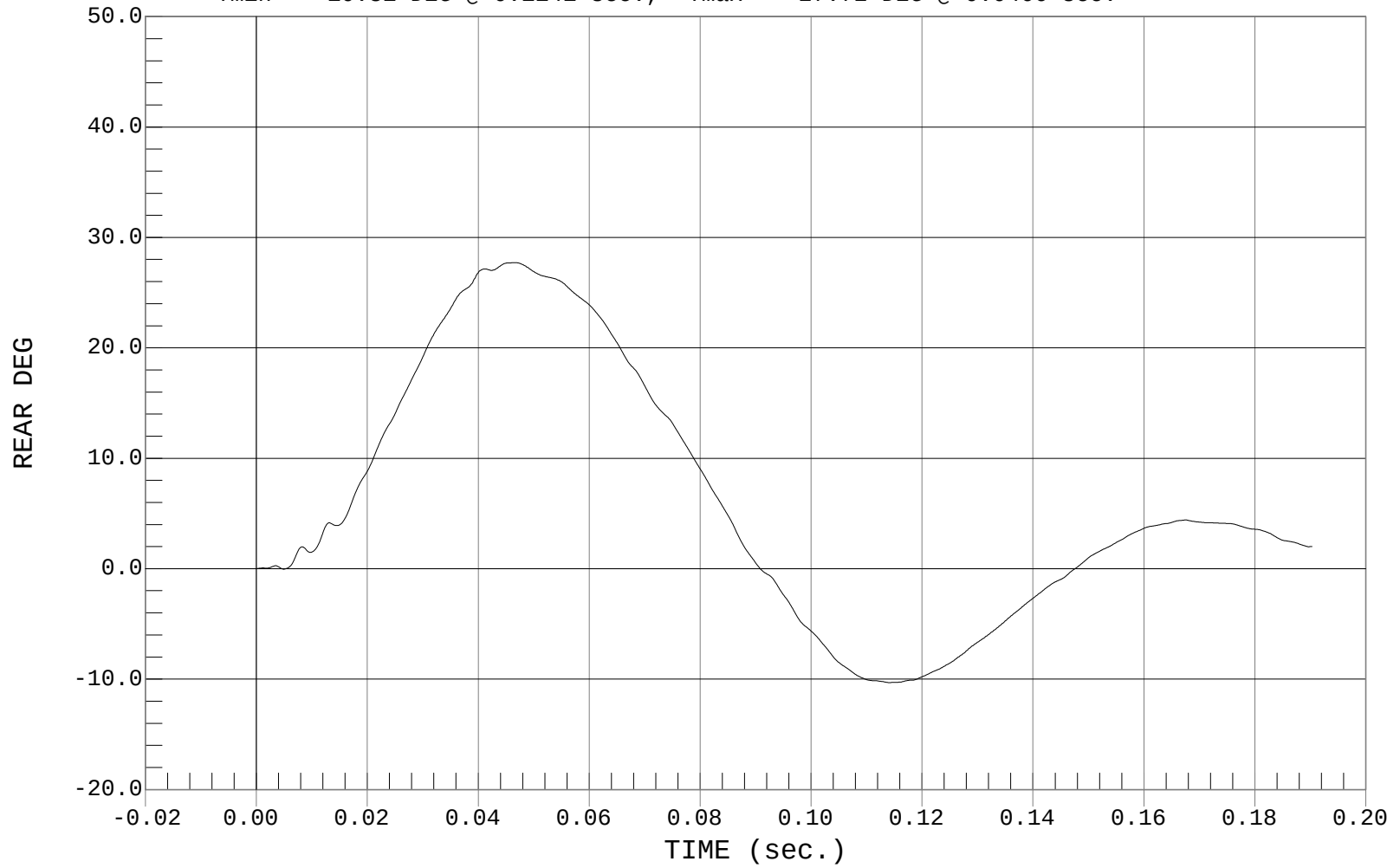
THETA B

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #010

Test Date: 10-11-01
Speed: 19.69 FT/SEC, 6.00 M/SEC

— 1 REAR, D01458DT.D06

Ymin = -10.31 DEG @ 0.1141 sec., Ymax = 27.72 DEG @ 0.0466 sec.



MGA RESEARCH CORPORATION
PELVIS TEST
EUROSID 2 DUMMY

Date: 10/11/01

Dummy Serial Number: 010

Test Number: D011459

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.8
Relative Humidity (%)	10 – 70	46
Pendulum Speed	6.20 – 6.30 m/s	6.28
Maximum Impactor Force	9.80 – 12.20 kN	11.10
Time of Max. Impactor Force	9.50 – 12.50 ms	11.30
Maximum Pubic Force	2.65 – 3.35 kN	3.30
Time of Max. Pubic Force	10.00 – 13.00 ms	11.50

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



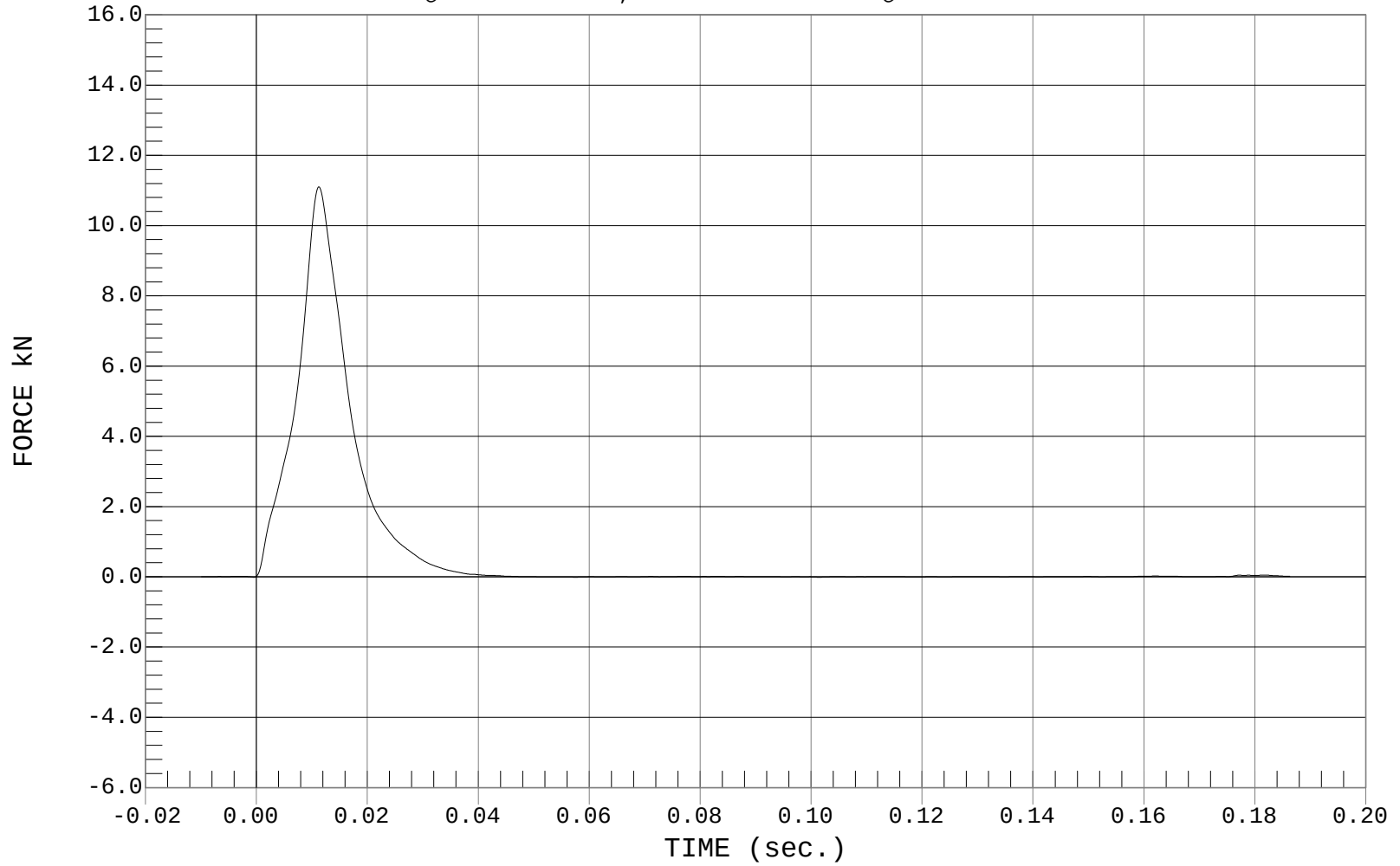
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #010

Test Date: 10-11-01
Speed: 20.61 FT/SEC, 6.28 M/SEC

— 1 FORCE, D01459FT.F01

Ymin = -.01 kN @ -0.0005 sec., Ymax = 11.1 kN @ 0.0113 sec.





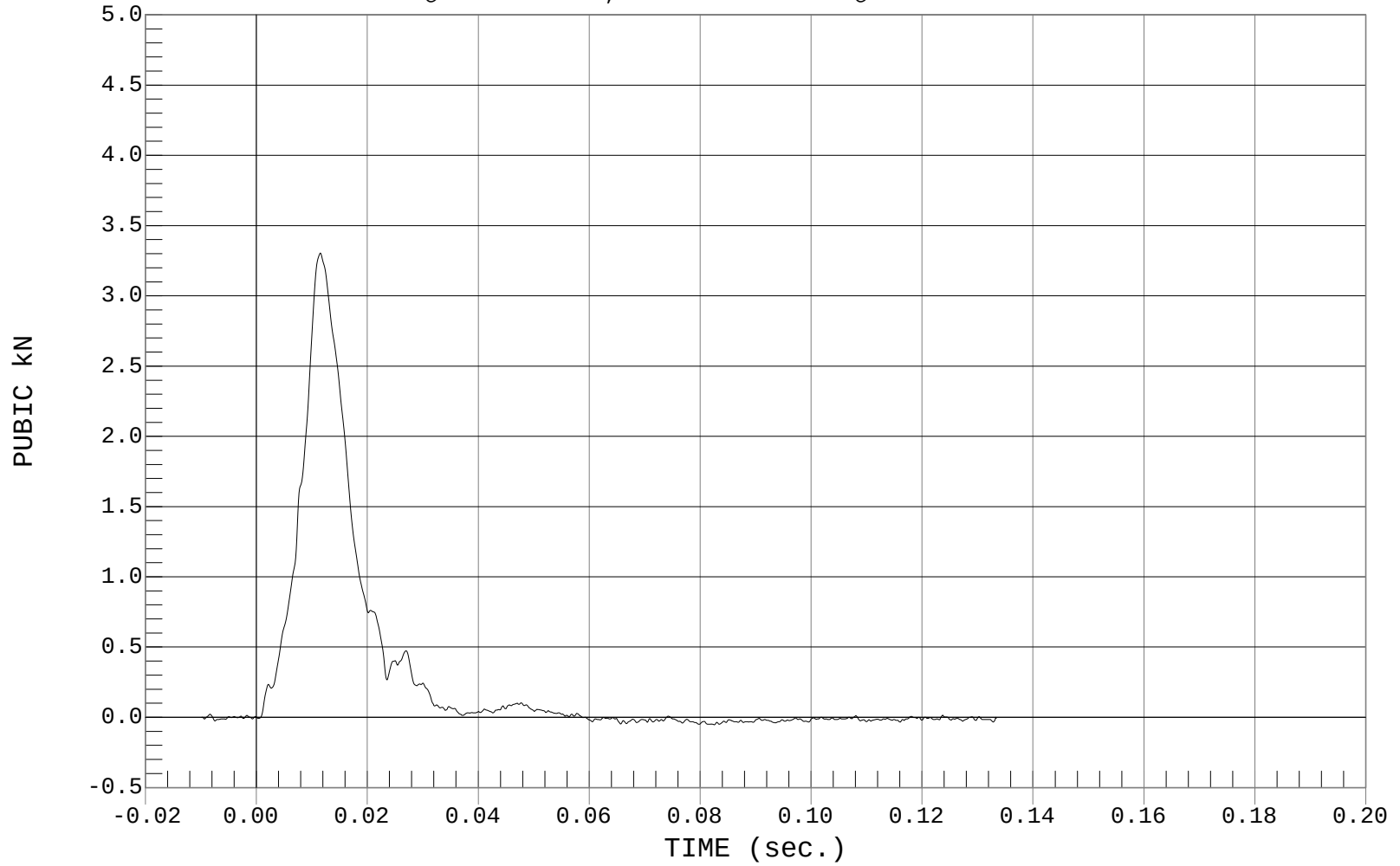
PUBIC FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #010

Test Date: 10-11-01
Speed: 20.61 FT/SEC, 6.28 M/SEC

— 1 PUBIC, D01459FT.F02

Ymin = -.05 kN @ 0.0825 sec., Ymax = 3.3 kN @ 0.0115 sec.



APPENDIX D

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

DUMMY AND VEHICLE CALIBRATION DATA

	INSTRUMENTS FOR LEFT FRONT DUMMY NO. 009		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X Accelerometer	J14006	Endevco	10/2/01
Head Y Accelerometer	J13628	Endevco	10/2/01
Head Z Accelerometer	J13652	Endevco	10/2/01
Upper Neck Load Cell	105	FTSS	4/30/01
Lower Neck Load Cell	110	FTSS	5/4/01
Shoulder Force Load Cell	119	FTSS	4/24/01
Upper Spine X Accelerometer	J10730	Endevco	10/2/01
Upper Spine Y Accelerometer	J11014	Endevco	10/2/01
Upper Spine Z Accelerometer	J11625	Endevco	10/2/01
Upper Rib Y Accelerometer	AGRW3	Endevco	6/20/01
Mid Rib Y Accelerometer	AHY71	Endevco	6/20/01
Lower Rib Y Accelerometer	AMPY0	Endevco	6/20/01
Upper Rib Displacement	009	Honeywell	5/22/01
Mid Rib Displacement	009	Honeywell	5/22/01
Lower Rib Displacement	009	Honeywell	5/22/01
Lower Spine X Accelerometer	J13927	Endevco	10/2/01
Lower Spine Y Accelerometer	J13941	Endevco	10/2/01
Lower Spine Z Accelerometer	J13984	Endevco	10/2/01
Torso Load Cell	122	FTSS	4/12/01
T-12 Load Cell	102	FTSS	3/27/01
Front Abdomen Load Cell	122	FTSS	4/26/01
Mid Abdomen Load Cell	123	FTSS	4/26/01
Rear Abdomen Load Cell	124	FTSS	4/26/01
Pubic Symphysis Load Cell	115	Denton	3/29/01
Pelvis X Accelerometer	AHTF1	Endevco	10/2/01
Pelvis Y Accelerometer	AJ9D6	Endevco	10/2/01
Pelvis Z Accelerometer	AJ9D8	Endevco	10/2/01
Right Femur Load Cell	135	FTSS	4/18/01
Left Femur Load Cell	136	FTSS	4/19/01
Lumbar Load Cell	104	FTSS	4/24/01

DUMMY AND VEHICLE CALIBRATION DATA (Continued)

	INSTRUMENTS FOR LEFT REAR DUMMY NO. 010		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X Accelerometer	J20392	Endevco	5/31/01
Head Y Accelerometer	ALDD6	Endevco	5/31/01
Head Z Accelerometer	AGT18	Endevco	5/31/01
Upper Neck Load Cell	106	FTSS	3/27/01
Shoulder Force Load Cell	120	FTSS	4/24/01
Upper Spine X Accelerometer	AN8D5	Endevco	7/3/01
Upper Spine Y Accelerometer	J13709	Endevco	7/3/01
Upper Spine Z Accelerometer	AN8D2	Endevco	7/3/01
Upper Rib Y Accelerometer	J13653	Endevco	6/20/01
Mid Rib Y Accelerometer	J13649	Endevco	6/20/01
Lower Rib Y Accelerometer	J13713	Endevco	6/20/01
Upper Rib Displacement	010	Honeywell	5/22/01
Mid Rib Displacement	010	Honeywell	5/22/01
Lower Rib Displacement	010	Honeywell	5/22/01
Lower Spine X Accelerometer	AH1F9	Endevco	8/21/01
Lower Spine Y Accelerometer	AH0F0	Endevco	8/21/01
Lower Spine Z Accelerometer	AH097	Endevco	8/21/01
Torso Load Cell	123	FTSS	4/12/01
T-12 Load Cell	103	FTSS	4/26/01
Front Abdomen Load Cell	119	FTSS	4/26/01
Mid Abdomen Load Cell	120	FTSS	4/26/01
Rear Abdomen Load Cell	121	FTSS	4/26/01
Pubic Symphysis Load Cell	113	Denton	3/29/01
Pelvis X Accelerometer	AH0C3	Endevco	8/30/01
Pelvis Y Accelerometer	AHT12	Endevco	8/30/01
Pelvis Z Accelerometer	AHTN3	Endevco	8/30/01
Right Femur Load Cell	137	FTSS	4/18/01
Left Femur Load Cell	138	FTSS	4/18/01
Lumbar Load Cell	105	FTSS	5/7/01

DUMMY AND VEHICLE CALIBRATION DATA (Continued)

	VEHICLE ACCELEROMETERS		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Moving Barrier CG X	D11-F01	Entran	5/30/01
Moving Barrier CG Y	J10-E18	Entran	8/21/01
Moving Barrier CG Z	125-J09	Entran	5/25/01
Moving Barrier Rear Axle X	E03-H06	Entran	6/7/01
Moving Barrier Rear Axle Y	F11-G09	Entran	9/27/01
Left Mid A-Post Y	L15-G21	Entran	6/25/01
Left Lower A-Post Y	H14-N15	Entran	9/12/01
Left Upper B-Post	G03-N09	Entran	7/30/01
Left Mid B-Post Y	K16-X08	Entran	3/21/01
Left Lower B-Post Y	D11-F14	Entran	5/30/01
Rear Floorpan Above Axle X	D11-F09	Entran	5/31/01
Rear Floorpan Above Axle Y	E25-G07	Entran	8/8/01
Rear Floorpan Above Axle Z	C06-G01	Entran	5/25/01
Driver Seat Track Y	E03-H09	Entran	6/6/01
Right Side Sill at Front Seat X	H07-F07	Entran	9/27/01
Right Side Sill at Front Seat Y	A08-A11	Entran	8/29/01
Right Side Sill at Front Seat Z	I25-F07	Entran	6/11/01
Right Side Sill at Rear Seat X	K11-G07	Entran	3/21/01
Right Side Sill at Rear Seat Y	A08-A13	Entran	8/7/01
Right Side Sill at Rear Seat Z	G13-F12	Entran	8/7/01
Left Side Sill at Front Seat Y	G03-N08	Entran	9/27/01
Left Side Sill at Rear Seat Y	G03-N02	Entran	9/27/01
Vehicle CG X	E23-R11	Entran	9/27/01
Vehicle CG Y	F12-G01	Entran	9/27/01
Vehicle CG Z	J10-E12	Entran	9/27/01

DUMMY AND VEHICLE CALIBRATION DATA (Continued)

	VEHICLE ACCELEROMETERS		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Left Front Door @ Mid Rib	H14-N03	Entran	9/12/01
Left Front Door @ Pelvis	H14-N14	Entran	9/12/01
Left Front Door @ Knee	H14-N01	Entran	9/12/01
Left Front Door @ Arm	H14-N02	Entran	9/12/01
Left Rear Door @ Mid Rib	H14-N04	Entran	9/12/01
Left Rear Door @ Pelvis	H14-N13	Entran	9/12/01
Left Rear Door @ Knee	H14-N06	Entran	9/12/01
Left Rear Door @ Arm	H14-N05	Entran	9/12/01
Left Driver Seat Frame	K11-J08	Entran	8/8/01
Right Driver Seat Frame	E03-H10	Entran	6/6/01
Right Rear Occupant Compartment	F04-N10	Entran	6/22/01

Note: All Endevco accelerometers are Model No. 7264-2000

All Entran accelerometers are Model No. EGE-72

APPENDIX E

CHILD RESTRAINT AND CHILD DUMMY INFORMATION

Installation of the Side Impact Dummy (recommended practice)

1. GENERAL

- 1.1 The dummy to be used for the following installation procedure is described in Annex 6 to this regulation.
- 1.2 Adjust the knee joints so that they just support the leg when it is extended horizontally (1 to 2 g).
- 1.3 Clothe the dummy in form fitting cotton stretch mid-calf length pants. Each foot is equipped with a shoe.

2. INSTALLATION

- 2.1 Place the dummy in the outboard front seat of the impact side as described in the test specifications.
- 2.2 The mid-sagittal plane of the dummy shall coincide with the centerplane of the occupant (as determined according to Annex 3, paragraph 2.8) with a tolerance of 2°.
- 2.3 The pelvis of the dummy shall be positioned according to the following:
 - 2.3.1 The pelvis pitch angle shall be $20.0^{\circ} \pm 2.5^{\circ}$.
 - 2.3.2 A line passing through the dummy H-points shall pass through an imaginary circle in the mid-sagittal plane of the dummy. This circle has a radius of 10 mm and is located 20 mm horizontally forward and 5 mm vertically above the reference H-point, determined by the 3D H-point machine.
- 2.4 The upper torso of the dummy shall be positioned according to the following:
 - 2.4.1 The upper torso shall be bent forward and then laid back against the seat back. The shoulder of the dummy shall be set fully rearward.
 - 2.4.2 The torso reference line pitch angle shall be $25.0^{\circ} \pm 2.5^{\circ}$. The torso reference line is defined as the thoracic spine center line.
- 2.5 The arms shall be positioned in such a way that the angle between the projection of the arm centerline on the mid-sagittal plane of the dummy and the torso reference line is $40^{\circ} \pm 5^{\circ}$.

- 2.6 For the driver's seating position, without inducing pelvis or torso movement, place the right foot of the dummy on the undepressed accelerator pedal with the heel resting as far forward as possible on the floorpan. Set the left foot perpendicular to the lower leg with the heel resting on the floorpan in the same lateral line as the right heel. Set the knees of the dummy such that their outside surfaces are 150 ± 10 mm from the plane of symmetry of the dummy. If possible, within these constraints, place the thighs of the dummy in contact with the seat cushion.
- 2.7 For other seating positions, without inducing pelvis or torso movement, place the heels of the dummy as far forward as possible on the floorpan without compressing the seat cushion more than the compression due to the weight of the leg. Set the knees of the dummy such that their outside surfaces are 150 ± 10 mm from the plane of symmetry of the dummy.

APPENDIX F
ES-2 PEAK RESPONSES

PASSENGER (ES-2) PEAK RESPONSE TABLE

Location	Peak Values				
				2001 Focus 10/5/01	
	Class	Axis	Units	Peak	Time
Head	1000	X	G	22.4	103
	1000	Y	G	79.5	43
	1000	Z	G	15.9	84
	1000	RES	G	81.1	43
Head Injury Criteria (HIC)				188	
t1				40.3	
t2				46.4	
Upper Neck Force	1000	X	N	-659	87
	1000	Y	N	-957	52
	1000	Z	N	-1614	47
	1000	RES	N	1823	49
Upper Neck Moment	600	X	Nm	-57.3	63
	600	Y	Nm	-33.5	47
	600	Z	Nm	34.4	64
	600	RES	Nm	69.0	63
Lower Neck Force	1000	X	N	not collected	
	1000	Y	N		
	1000	Z	N		
	1000	RES	N		
Lower Neck Moment	600	X	Nm	not collected	
	600	Y	Nm		
	600	Z	Nm		
	600	RES	Nm		
Shoulder Force	1000	X	N	-1497	35
	1000	Y	N	2127	55
	1000	Z	N	-1439	55

PASSENGER (ES-2) PEAK RESPONSE TABLE (CONTINUED)

Location	Peak Values				
				2001 Focus 10/5/01	
	Class	Axis	Units	Peak	Time
Upper Spine	180	X	G	-23.2	47
	180	Y	G	44.1	53
	180	Z	G	9.2	51
	180	Res	G	46.9	53
Lower Spine	180	X	G	-21.0	44
	180	Y	G	61.3	41
	180	Z	G	-8.8	37
	180	Res	G	63.4	61
Upper Rib	180	Y	G	85.7	33
Mid Rib	180	Y	G	45.8	34
Lower Rib	180	Y	G	57.4	41
Upper Rib Deflection	180	Y	mm	17.5	53
Mid Rib Deflection	180	Y	mm	12.7	49
Lower Rib Deflection	180	Y	mm	8.0	51
Upper Rib VC	180	Y	m/sec	0.19	38
Mid Rib VC	180	Y	m/sec	0.06	38
Lower Rib VC	180	Y	m/sec	-0.03	56
Torso Force	600	X	N	-803	97
	600	Y	N	-492	44
Torso Moment	600	Y	Nm	-38.8	99
	600	Z	Nm	-30.0	100
T12 Force	600	X	N	-511	35
	600	Y	N	2488	45
T12 Moment	600	X	Nm	not collected	
	600	Y	Nm	-79.8	38

PASSENGER (ES-2) PEAK RESPONSE TABLE (CONTINUED)

Location	Peak Values				
				2001 Focus 10/5/01	
	Class	Axis	Units	Peak	Time
Abdomen Front Force	600	Y	N	545	37
Abdomen Mid Force	600	Y	N	475	37
Abdomen Rear Force	600	Y	N	262	50
Abdomen Summed Force	600	Y	N	1188	47
Pubic Symphysis Force	600	Y	N	3678	38
Right Femur Force	600	X	N	706	34
	600	Y	N	952	34
	600	Z	N	2427	34
	600	RES	N	2527	34
Right Femur Moment	600	X	Nm	230.9	35
	600	Y	Nm	104.5	34
	600	Z	Nm	32.8	34
	600	RES	Nm	-241.7	35
Left Femur Force	600	X	N	-388	37
	600	Y	N	-2525	35
	600	Z	N	1964	34
	600	RES	N		
Left Femur Moment	600	X	Nm	-337.3	23
	600	Y	Nm	-83.2	36
	600	Z	Nm	48.1	34
	600	RES	Nm	344.9	23
Pelvis	1000	X	G	-71.0	36
	1000	Y	G	93.3	31
	1000	Z	G	-24.4	36

DRIVER (ES-2) PEAK RESPONSE TABLE

Location	Peak Values				
				2001 Focus 10/5/01	
	Class	Axis	Units	Peak	Time
Head	1000	X	G	-13.8	84
	1000	Y	G	23.4	46
	1000	Z	G	50.4	57
	1000	RES	G	53.2	54
Head Injury Criteria (HIC)				299	
T1				43.6	
T2				79.6	
Upper Neck Force	1000	X	N	-655	86
	1000	Y	N	832	81
	1000	Z	N	1885	59
	1000	RES	N	1953	59
Upper Neck Moment	600	X	Nm	-78.9	45
	600	Y	Nm	15.6	116
	600	Z	Nm	12.2	69
	600	RES	Nm	78.9	45
Lower Neck Force	1000	X	N	-673	54
	1000	Y	N	1074	58
	1000	Z	N	1744	57
	1000	RES	N	2085	57
Lower Neck Moment	600	X	Nm	229.5	77
	600	Y	Nm	78.7	105
	600	Z	Nm	-22.5	108
	600	RES	Nm	233.8	77
Shoulder Force	1000	X	N	-451	26
	1000	Y	N	867	27
	1000	Z	N	-1061	30

DRIVER (ES-2) PEAK RESPONSE TABLE (CONTINUED)

Location	Peak Values				
				2001 Focus 10/5/01	
	Class	Axis	Units	Peak	Time
Upper Spine	180	X	G	-27.3	25
	180	Y	G	82.8	36
	180	Z	G	6.6	43
	180	Res	G	82.8	36
Lower Spine	180	X	G	-15.4	30
	180	Y	G	72.3	30
	180	Z	G	8.3	33
	180	Res	G	73.5	30
Upper Rib	180	Y	G	165.5	26
Mid Rib	180	Y	G	138.8	25
Lower Rib	180	Y	G	154.3	29
Upper Rib Deflection	180	Y	mm	46.4	41
Mid Rib Deflection	180	Y	mm	34.5	37
Lower Rib Deflection	180	Y	mm	22.0	36
Upper Rib VC	180	Y	m/sec	1.15	34
Mid Rib VC	180	Y	m/sec	0.66	33
Lower Rib VC	180	Y	m/sec	0.38	32
Torso Force	600	X	N	434	37
	600	Y	N	1214	39
Torso Moment	600	Y	Nm	19.6	40
	600	Z	Nm	16.8	37
T12 Force	600	X	N	528	65
	600	Y	N	not collected	
T12 Moment	600	X	Nm	not collected	
	600	Y	Nm	not collected	

DRIVER (ES-2) PEAK RESPONSE TABLE (CONTINUED)

Location	Peak Values				
				2001 Focus 10/5/01	
	Class	Axis	Units	Peak	Time
Abdomen Front Force	600	Y	N	281.3	30
Abdomen Mid Force	600	Y	N	592.6	27
Abdomen Rear Force	600	Y	N	959.7	26
Abdomen Summed Force	600	Y	N	1785.2	27
Pubic Symphysis Force	600	Y	N	3560.6	25
Right Femur Force	600	X	N	317	23
	600	Y	N	-1545	38
	600	Z	N	1370	32
	600	RES	N	1877	38
Right Femur Moment	600	X	Nm	-126.9	23
	600	Y	Nm	43.3	23
	600	Z	Nm	42.2	51
	600	RES	Nm	134.4	23
Left Femur Force	600	X	N	-406	35
	600	Y	N	-771	28
	600	Z	N	1854	29
	600	RES	N	2002	29
Left Femur Moment	600	X	Nm	-145.0	44
	600	Y	Nm	-70.6	34
	600	Z	Nm	38.0	28
	600	RES	Nm	145.1	44
Pelvis	1000	X	G	28.7	47
	1000	Y	G	96.7	23
	1000	Z	G	25.7	31

APPENDIX G

ES-2 POLARITY CHECKLIST

ES-2 POLARITY CHECKLIST

Location	Channel	Dummy Manipulation	Polarity
Upper Neck	Fx	Head Rearward, Chest Forward	+
	Fy	Head Leftward, Chest Rightward	+
	Fz	Head Upward, Chest Downward	+
	Mx	Left Ear Toward Left Shoulder	+
	My	Chin Toward Sternum	+
	Mz	Chin Toward Left Shoulder	+
Lower Neck	Fx	Head Rearward, Chest Forward	+
	Fy	Head Leftward, Chest Rightward	+
	Fz	Head Upward, Chest Downward	+
	Mx	Left Ear Toward Left Shoulder	+
	My	Chin Toward Sternum	+
	Mz	Chin Toward Left Shoulder	+
Shoulder	Fx	Shoulder Forward, Chest Rearward	+
	Fy	Shoulder Rightward, Chest Leftward	+
	Fz	Shoulder Downward, Chest Upward	+
Torso Back Plate	Fx	Push Backplate in the +X Direction	+
	Fy	Push Backplate to the Right (+Y)	+
	My	Push Bottom Half and Pull Top Half of Backplate	+
	Mz	Push Left Half and Pull Right Half of Backplate	+
Thorax Upper Rib	Dy	Push Rib Rightward	+
Thorax Mid Rib	Dy	Push Rib Rightward	+
Thorax Lower Rib	Dy	Push Rib Rightward	+
Pubic Load	Fy	Right H-Point Pad Leftward, Left Pad Rightward	(-)
T12 Load	Fx	Chest Rearward, Pelvis Forward	+
	Fy	Chest Leftward, Pelvis Rightward	+
	Mx	Left Shoulder Toward Left Hip	+
	My	Sternum Toward Front of Legs	+
Left Illiac Load	Fy	Left Illiac Rightward, Chest Leftward	+

ES-2 POLARITY CHECKLIST (CONTINUED)

Location	Channel	Dummy Manipulation	Polarity
Ant. Ab. Load	Fy	Left Side of Abdomen Rightward, Chest Leftward	+
Mid Ab. Load	Fy	Left Side of Abdomen Rightward, Chest Leftward	+
Post. Ab. Load	Fy	Left Side of Abdomen Rightward, Chest Leftward	+
Left Upper Leg Load	Fx	Knee Upward, Upper Femur Downward	+
	Fy	Knee Rightward, Upper Femur Leftward	+
	Fz	Knee Forward, Pelvis Rearward	+
	Mx	Knee Leftward, Hold Upper Femur in Place	+
	My	Knee Upward, Hold Upper Femur in Place	+
	Mz	Tibia Leftward, Hold Pelvis in Place	+
Lumbar Spine	Fx	Knee Upward, Upper Femur Downward	+
	Fy	Knee Rightward, Upper Femur Leftward	+
	Fz	Knee Forward, Pelvis Rearward	+
	Mx	Knee Leftward, Hold Upper Femur in Place	+
	My	Knee Upward, Hold Upper Femur in Place	+
	Mz	Tibia Leftward, Hold Pelvis in Place	+