

REPORT NUMBER: MCW-DOT-SOI002

**VEHICLE INTO POLE CRASH TEST
IN SUPPORT OF NHTSA FRONTAL SMALL OVERLAP PROGRAM**

**2005 HONDA CIVIC LX 4-DOOR SEDAN CRABBED INTO POLE
AIM FOR THE HEAD PROCEDURE**

**TEST DATE: 5 FEBRUARY 2010
NHTSA NUMBER:**

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**FINAL REPORT SUBMITTED:
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Prepared by:_____

Date:

Reviewed by:_____

Date:

Approval date:_____

Date:

Technical Report Documentation Page

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16. Abstract A 56.1 km/h Moving Test Platform with a crabbed 2005 Honda Civic LX 4-door sedan was impacted into a rigid segmented pole. This test was conducted on the subject to obtain research data indicant of NHTSA's Frontal Small Overlap Program. The test was conducted at the Medical College of Wisconsin (MCW) in Milwaukee, Wisconsin on 5 February 2010. The impact velocity of the test platform was 56.1 km/h, and the ambient temperature at the struck side of the vehicle was 20 °C. The test vehicle's occupant performance is as follows: <table border="1"> <thead> <tr> <th></th> <th><u>Units</u></th> <th><u>DRIVER</u></th> <th><u>PASS.</u></th> </tr> </thead> <tbody> <tr> <td>15 millisecond Head Injury Criteria (HIC15)</td> <td></td> <td>117.3</td> <td>207.5</td> </tr> <tr> <td>Chest maximum resultant acceleration</td> <td>G's</td> <td>27.1</td> <td>29.7</td> </tr> <tr> <td>Maximum chest deflection</td> <td>MM</td> <td>***</td> <td>23.7</td> </tr> <tr> <td>Left femur maximum axial compressive force</td> <td>NWT</td> <td>****</td> <td>-222.2</td> </tr> <tr> <td>Right femur maximum axial compressive force</td> <td>NWT</td> <td>****</td> <td>-167.4</td> </tr> </tbody> </table> *** Channel failed during testing **** Channel failed prior to testing							<u>Units</u>	<u>DRIVER</u>	<u>PASS.</u>	15 millisecond Head Injury Criteria (HIC15)		117.3	207.5	Chest maximum resultant acceleration	G's	27.1	29.7	Maximum chest deflection	MM	***	23.7	Left femur maximum axial compressive force	NWT	****	-222.2	Right femur maximum axial compressive force	NWT	****	-167.4
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17. Key Words Frontal Small Overlap Program THOR 50 th percentile Dummy Hybrid III 5 th percentile Dummy			18. Distribution Statement Copies of this report are available from: U.S. Department of Transportation National Highway Traffic Safety Administration Technical Reference Division 1200 New Jersey Ave, SE, Room W43-410 Washington, D.C. 20590																										
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Test Vehicle: 2005 Honda Civic LX 4-Door Sedan

SECTION 1

PURPOSE

This 56.1 km/h moving test platform into a rigid segmented pole test is part of Frontal Offset Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-10-D-00159. The purpose of this test was to obtain vehicle crashworthiness and occupant restraint system performance data for consumer information purposes.

This test was conducted in accordance with the instructions set forth by NHTSA for a vehicle crabbbed into a pole aimed at the head, outlined in Task Order (TO) DXXXXXX. Data was obtained indicant of Federal Motor Vehicle Safety Standard (FMVSS) 208 – Occupant Crash Protection, FMVSS 212 – Windshield Mounting, FMVSS 219 (partial) – Windshield Zone Intrusion, and FMVSS 301 – Fuel System Integrity, in addition to the requirements of TO DXXXXXX.

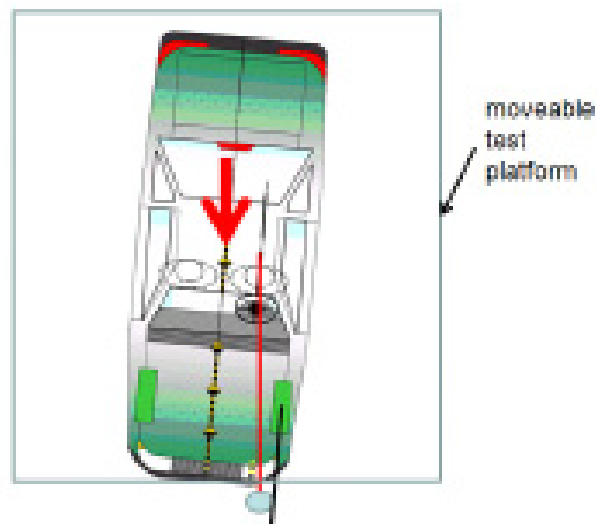
** No TO was given for the soi002. Interagency Agreement (IAA) no: 22-09-X-00193.*

SECTION 2

SUMMARY OF TEST

A model year 2005 Honda Civic LX 4-door sedan on a moveable test platform was towed into a segmented pole. The test vehicle remained stationary on the test platform until impact. The test vehicle was positioned on the moveable platform such that the center of the left tire aligned with the left side of the pole, while at the same time, a longitudinal line projecting from the center of the pole through the driver dummy's center of gravity.

The moveable test platform towed the stationary vehicle into the pole at 56.1 km/h (34.9 mph). The vehicle was crabbed at 4 degrees relative to the longitudinal center of the track. The offset of the vehicle was 26 percent of the outer width of the test vehicle.



The test vehicle mass was 1445.6 kg (2526.6 lbs). The test was conducted by The Medical College of Wisconsin on 5 February 2010.

The test was documented by 1 real time and 12 high-speed video cameras. Camera locations and other pertinent data are located in Data Sheet No. 6 of this report. Pre – and post – test photographs of the test vehicle, test platform, and setup were taken using a digital still camera. Photographic documentation of the test is presented in Appendix A of this report.

One (1) 50% adult male THOR LX anthropomorphic test device (ATD) (Serial No. 0007) was seated in the left front (driver's) seating position and one (1) Part 572O 5% adult female (HIII 5th) ATD (Serial No. 421) was seated in the left rear seating position. The THOR LX driver was positioned according to instructions specified in Laboratory Test Procedure for FMVSS No. 208, "Occupant Crash Protection", TP208 13, July 27, 2005. The HIII 5% left rear seat occupant was positioned according to instructions specified in Laboratory Test Procedure for FMVSS No. 214, "Side Impact Protection – Dynamic", TP214D-08, December 15, 2006. (Note: If a different seating procedure is used, include the exact procedure in an Appendix of the report). The driver was restrained with a 3 – point seat belt and a dual stage frontal airbag. The left rear passenger was restrained with a 3 – point seat belt.

186 channels of data from the two ATD's, test vehicle, and pole were collected using a Diversified Technical System (DTS) TDAS PRO data acquisition system. Appendix B contains ATD data plots, as well as vehicle and pole response data plots.

SECTION 2

SUMMARY OF TEST (CONTINUED)

There was 97.8% total windshield retention, with 96.4% and 99.2% retention on the left and right sides respectively. There appeared to be no intrusion into the protected zone of the windshield during any portion of the impact test. The maximum crush of the underlying structure was 169 mm at DPD 2 to the left of the vehicle's centerline. The maximum crush of the underlying structure was 168 mm at DPD 2 of the lower bumper beam, to the left of the vehicle's centerline. Full vehicle measurements are presented in Section 3 of this report.

All four vehicle doors remained closed and latched during the test. The left front door was jammed shut as a result of the impact. The right front and rear doors remained closed, latched, and operational.

Structural observations include the following: No damage was noted to the pillar or the windows, no sill separation was noted, and there were no other notable effects.

The driver ATD's visible contact points are as follows: The front/right of the head contacted the steering wheel airbag, and the back bottom went to the seatback on rebound. The chest and upper abdomen contacted the steering wheel airbag. The left and right knees contacted their respective knee bolsters and the steering column. The left knee additionally contacted the interior door panel.

The left rear passenger ATD's visible contact points are as follows: The chin moved to the sternum, and on rebound, the back of the head contacted the seat. The chest, abdomen, and right knee had no contact. The left knee struck the interior door panel.

SECTION 2b
CRASH VEHICLE SUMMARY

PRIMARY IMPACT DATA		
Measured Parameter	Units	Value
Velocity at impact	km/h	56.1
Vehicle test weight	kg	1445.6
Vehicle angle	°	4.0
Vehicle maximum static crush	mm	148
Vertical offset from target point	mm	6 (above)
Lateral offset from target point	mm	1 (right)
Number of data channels	N/a	186
Number of real-time cameras	N/a	1
Number of high-speed cameras	N/a	12

DUMMY CONTACTS		
	Driver	Passenger
Dummy type/serial no.	0007	421
Restraint system	3-point belt	3-point belt
Head contact	Front/right of head to steering wheel airbag; back bottom to upper seatback on rebound	Chin to sternum and back of head to seat back on rebound
Chest contact	To steering wheel airbag	No contact
Abdomen contact	Upper abdomen to steering wheel airbag	No contact
Left knee contact	To knee bolster, steering column, and interior door panel	To interior door panel
Right knee contact	To knee bolster and steering column	No contact

SECTION 2c
ATD SUMMARY

DRIVER				
Loc.	Nomenclature	Source	Max	Min
Head	Angular acceleration (rad/sec ²)	SIMon	1000	-1000
	Angular acceleration (rad/sec ²)	SIMon	1750	-2000
	Angular acceleration (rad/sec ²)	SIMon	900	-1250
	Angular velocity (rad/sec)	SIMon	9.0	-13.0
	Angular velocity (rad/sec)	SIMon	17.5	-29.0
	Angular velocity (rad/sec)	SIMon	9.0	-9.0
	36 ms clip	Compute	204.3	
	15 ms clip	Compute	117.3	
	Skull fracture correlate	Compute	55.9	
	Cumulative strain (tolerance = 0.05)	SIMon	1.0	
	Cumulative strain (tolerance = 0.10)	SIMon	0.85	
	Cumulative strain (tolerance = 0.15)	SIMon	0.43	
	Head resultant CG acceleration (G's)	Compute	38.9	
Neck	UNLC Fx transferred to OC, neck system (N)	1000	314.2	-866.2
	UNLC Fz neck system tension (N)	1000	923.8	
	UNLC Fz neck system compression (N)	1000		-433.8
	UNLC My transferred to OC, neck system flexion (Nm)	Compute	17.6	
	UNLC My transferred to OC, neck system extension (Nm)	Compute	-9.14	
	On head acting through total neck section Fx (N)	Thortest	322.8	-686.4
	On head acting through total neck section Fy (N)	Thortest	273.3	-74.8
	On head acting through total neck section Fz (N)	Thortest	1143.5	-65.9
	On head acting through tot. neck sect. Mx (Nm)	Thortest	21.3	-4.40
	On head acting through tot. neck sect. My (Nm)	Thortest	62.2	-25.5
	On head acting through tot. neck sect. Mz (Nm)	Thortest	4.92	-13.1
	On head acting through O.C. joint only Fx(N)	Thortest	401.7	-863.5
	On head acting through O.C. joint only Fz (N)	Thortest	908.3	-377.1
	On head acting through O.C. joint only My (Nm)	Thortest	1.01	-7.87
Chest	Upper CRUX x-deflection, right (mm)	Thortest	0.29	-38.1
	Upper CRUX y-deflection, right (mm)	Thortest	5.03	-2.18
	Upper CRUX z-deflection, right (mm)	Thortest	13.1	-2.15
	Upper CRUX "d" displacement, right (mm)	Thortest	0.24	-37.4
	Upper CRUX x-deflection, left (mm)	Thortest	0.51	-16.4
	Upper CRUX y-deflection, left (mm)	Thortest	3.80	-5.28
	Upper CRUX z-deflection, left (mm)	Thortest	13.6	-1.72
	Upper CRUX "d" displacement, left (mm)	Thortest	0.4	-28.8

SECTION 2c
ATD SUMMARY (CONTINUED)

Chest	Lower CRUX x-deflection, right (mm)	Thortest	0.09	-28.8
	Lower CRUX y-deflection, right (mm)	Thortest	0.24	-11.2
	Lower CRUX z-deflection, right (mm)	Thortest	18.8	-4.13
	Lower CRUX "d" displacement, right (mm)	Thortest	0.12	-32.4
	Lower CRUX x-deflection, left (mm)	Thortest	1.97	-2.46
	Lower CRUX y-deflection, left (mm)	Thortest	0.19	-5.60
	Lower CRUX z-deflection, left (mm)	Thortest	10.3	-0.02
	Lower CRUX "d" displacement, left (mm)	Thortest	1.15	-5.37
	Chest CG acceleration, 3 ms clip (G's)	Compute	27.1	
Abdomen	Max upper string pot (mm)	Compute	108.8**	-4.39**
	Upper viscous criteria	Compute	12.3	
	Lower right x-deflection (mm)	Thortest	24.7	-0.07
	Lower right y-deflection (mm)	Thortest	0.01	-3.39
	Lower right z-deflection (mm)	Thortest	0.09	-25.9
	Right viscous criterion based on x-deflection	Compute	0.34	
	Lower left x-deflection (mm)	Thortest	0.10	-35.2
	Lower left y-deflection (mm)	Thortest	9.50	-9.07
	Lower left z-deflection (mm)	Thortest	6.63	-0.02
Pelvis	Left viscous criterion based on x-deflection	Compute	0.24	
	Pelvis CG resultant acceleration (G's)	Compute	39.1	
Acetabulum	Right Fx force (N)	600	1111.5	-209.7
	Right Fy force (N)	600	203.1	-145.0
	Right Fz force (N)	600	18.1	-649.7
	Resultant force (N)	Compute	1277.6	
	Left Fx force (N)	600	703.2	-2369.1
	Left Fy force (N)	600	1054.6	-512.1
	Left Fz force (N)	600	572.1	-716.1
	Resultant force (N)	Compute	2695.0	
Femur	Right Fz force (N)	600	****	****
	Right Mx moment (Nm)	600	16.7	-44.9
	Right My moment (Nm)	600	27.4	-25.3
	Resultant force (N)	Compute	*	
	Left Fz force (N)	600	****	****
	Left Mx moment (Nm)	600	56.9	-60.5
	Left My moment (Nm)	600	54.0	-15.3
	Resultant force (N)	Compute	*	

* Cannot calculate due to incomplete data set

**Questionable data

**** Channel failed

SECTION 2c
ATD SUMMARY (CONTINUED)

PASSENGER				
Loc.	Nomenclature	Source	Max	Min
Head	Angular acceleration (rad/sec ²)	SIMon	1375	-1375
	Angular acceleration (rad/sec ²)	SIMon	8500	-1500
	Angular acceleration (rad/sec ²)	SIMon	1250	-900
	Angular velocity (rad/sec)	SIMon	9.0	-24.0
	Angular velocity (rad/sec)	SIMon	700	-25
	Angular velocity (rad/sec)	SIMon	1.0	-35.0
	36 ms clip	Compute	418.1	
	15 ms clip	Compute	207.0	
	Skull fracture correlate	Compute	45.4	
	Head resultant CG acceleration (G's)	Compute	80.3	
Neck	Upper neck tension (N)	1000	853.6	
	Upper neck compression (N)	1000		-117.4
	Upper neck NTF	Compute	0.40	
	Upper neck NTE	Compute	0.31	
	Upper neck NCF	Compute	0.03	
	Upper neck NCE	Compute	0.59	
Chest	Chest deflection (mm)	Thoritest	23.7	-0.11
	Chest CG acceleration, 3 ms clip (G's)	Compute	29.7	
Femur	Right Fz force (N)	600	1150.7	-167.4
	Left Fz force (N)	600	764.2	-221.7

SECTION 2d

TEST NOTES/ DATA ANOMOLIES

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA

VEHICLE INFORMATION		VEHICLE OPTIONS	
NHTSA no.	None given	Anti-lock brakes	Yes
Make	Honda	All-wheel drive	No
Model	Civic	Power steering	Yes
Body style	4-door sedan	Driver front airbag	Yes
Year	2005	Driver side airbag	Yes
VIN	2HGES16665H571093	Driver head airbag	No
Color	Gray	Driver curtain airbag	Yes
Delivery date	November 5, 2009	Driver knee airbag	No
Odometer reading (mi)	37,000	Pass. front airbag	No
Odometer reading (km)	59,546	Pass. side airbag	No
Dealer	Capitol Motors	Pass. head airbag	No
Transmission	Automatic w/ O/D	Pass. curtain airbag	Yes
Final drive	Front wheel drive	Pretensioners	Yes – front and rear
Type/no. of cylinders	4	Load limiters	Yes – front and rear
Engine disp. (L)	1.7	Bucket seats	Yes – front only
Engine placement	Lateral	Air conditioning	Yes
Roof rack	No	AM/FM CD	Yes
Sunroof/T-top	No	Tilt steering	Yes
Tinted glass	No	Automatic door locks	Yes
Traction control	Yes	Power windows	Yes
Power brakes	Yes	Power seats	Yes
Front disc	Yes	Other	No
Rear disc	Yes	Other	No

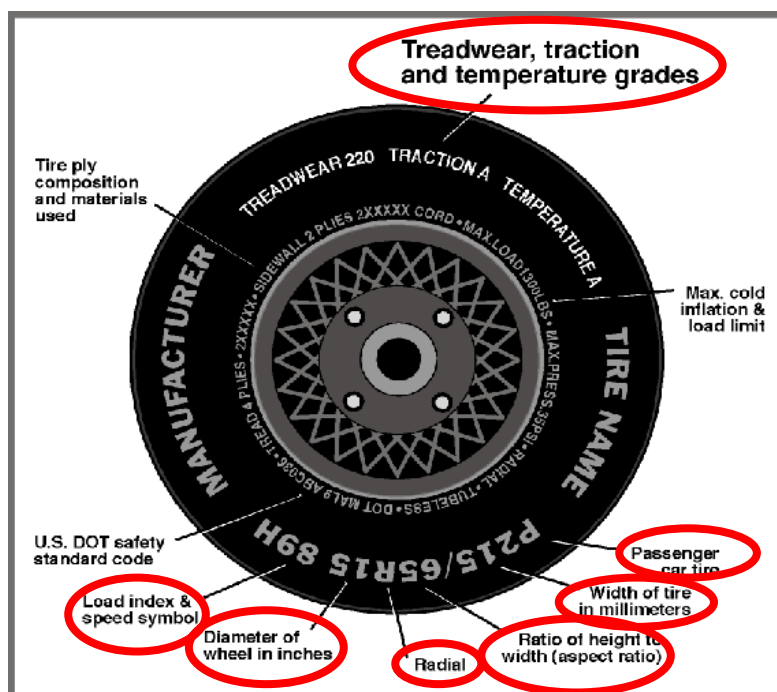
Does owner's manual provide instructions to turn off automatic door locks?

Yes

DATA FROM CERTIFICATION LABEL			
Manufactured by	Honda of America Mfg., Inc.	GVWR (kg)	1610
		GAWR front (kg)	835
Date of manufacture	March 2005	GAWR rear (kg)	780

VEHICLE SEATING AND WEIGHT CAPACITY				
Measured Parameter	Front	Rear	Third	Total
Type of seats	Bucket	Split bench	N/a	
Number of occupants	2	3	N/a	5
Capacity Wt. (VCW) (kg)				385
Cargo Wt. (RCLW) (kg)				44.8

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



TIRE INFORMATION		
Measured Parameter	Front	Rear
Maximum tire pressure (kPa)	210	210
Cold / test pressure (kPa)	420	420
Recommended tire size	P195/60R15	P195/60R15
Tire size on vehicle	P195/60R15	P195/60R15
Tire manufacturer	Continental	Bridgestone
Tire model	Touring Contact	Potenza
Treadware	520	160
Traction	A	A
Temperature grade	B	B
Tire plies sidewall	4	1
Tire plies body	5	3
Load index & speed symbol	87S	87H
Tire material	Polyester & steel cord	Polyester & steel cord
DOT safety code (right)	CRV9	DU35H
DOT safety code (right)	BLC	OVB9

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

TEST VEHICLE WEIGHTS							
	Units	As delivered (UVW) (Axle)			As tested (ATW) (Axle)		
		Front	Rear	Total	Front	Rear	Total
Left	kg	365.1	233.6		388.7	368.8	
Right	kg	346.5	241.3		346.1	342.0	
Ratio	%	60.0	40.0		50.8	49.2	
Totals	kg	711.6	474.9	1186.5	734.8	710.8	1445.6

TARGET TEST WEIGHT CALCULATION		
	Units	Value
Total delivered weight (UVW)	kg	1186.5
Weight of one (1) P572E ATD & one (1) P572O ATD	kg	155.2
Rated cargo/luggage weight (RCLW)	kg	44.8
Calculated vehicle target weight (TVTW)	kg	1386.5

TEST VEHICLE ATTITUDES AND CG						
	Units	LF	RF	LR	RR	CG (aft of front axle)
As delivered	mm	688	695	688	696	1048
As tested	mm	686	701	633	654	1288
Post test	mm	508	773	691	704	

GENERAL TEST VEHICLE DATA		
Measurement description	Units	Value
Total vehicle wheel base	mm	2619
Total vehicle length at left side	mm	4310
Total vehicle length at centerline	mm	4400
Total vehicle length at right side	mm	4310
Weight of ballast in cargo area	kg	59.1
Weight of vehicle components removed	kg	0.50
Amt of Stoddard solvent in fuel tank	L	46.4

Mass of ballast added (kg): 59.1

Components removed from test vehicle

➤ Right rear tail-light

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

VEHICLE STRUCTURAL MEASUREMENTS		
	Elements	Pre-test
1	Total length	4400
2	Total width	1720
3	Bumper top height	509
4	Bumper bottom height	419
5	Longitudinal member top height	232
6	Longitudinal member bottom height	174
7	Distance between longitudinal members	895
8	Longitudinal member width	730
9	Engine top height	760
10	Engine bottom height	202
11	Engine and gearbox width	770
12	Front bumper – engine distance	485
13	Bonnet leading edge height	665
14	Front shock absorber fixing width	1025
15	Front bumper – front axle distance	750
16	Front axle – A pillar distance	457
17	A pillar – B pillar distance	1118
18	B pillar – rear axle distance	1044
19	B – pillar – C – pillar distance	1024
20	Roof sill bottom height	1370
21	Roof sill top height	1410
22	Floor sill bottom height	245
23	Floor sill top height	355

DATA SHEET NO. 1A
ELECTRIC VEHICLE PARAMETER DATA

ELECTRIC VEHICLE PROPULSION SYSTEM

Type of electric vehicle (electric/hybrid): _____
Propulsion battery type: _____
Nominal voltage: _____ V
Physical location of automatic propulsion battery disconnect: _____
Auxiliary battery type: _____

PROPULSION BATTERY SYSTEM DATA (COTR SUPPLIED DATA)

Electrolyte fluid type: _____
Electrolyte fluid specific gravity: _____
Electrolyte fluid kinematic viscosity: _____ centistokes
Electrolyte fluid color: _____
Propulsion battery coolant type, color, specific gravity (if applicable): _____
Location of battery in module: _____
Inside passenger compartment: _____
Outside passenger compartment: _____

Measure and record battery state of charge (note: check which condition applies and specify the manufacturer's value):

Maximum state of charge recommended by manufacturer: _____
Test voltage (> 95% of maximum state of charge): _____
Test voltage (within normal operating voltage range): _____

VEHICLE CHASSIS GROUND POINT(S) LOCATION(S)

Details of vehicle chassis ground point(s) and location(s):

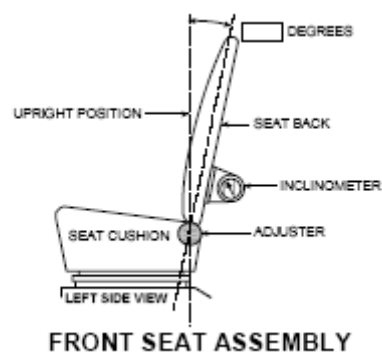
PROPULSION BATTERY SYSTEM

Details of propulsion battery components:

DATA SHEET NO. 2
SEAT ADJUSTMENT, FUEL SYSTEM, AND STEERING WHEEL

Seat back position

The driver and passenger seat back is positioned according to the manufacturers designated angle.



SEAT BACK POSITION	
Driver seat back angle:	12.2°
Passenger seat back angle:	Non-adjustable

Seat fore/aft positions

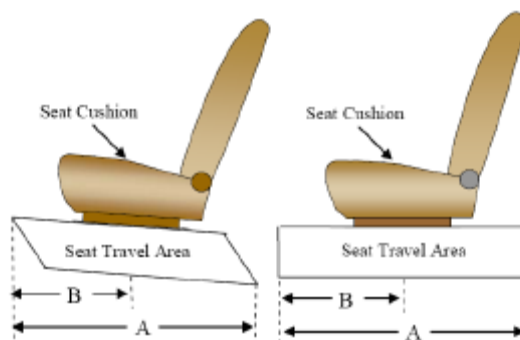
The total seat travel was measured from forward most position to rearmost position, irrespective of vertical seat height in those positions. The seat was set at the longitudinal mid position with vertical adjustment at the lowest position obtainable for both the driver and passenger.

SEAT FORE/AFT POSITION		
	Total fore/aft travel	Placed in position #
Driver seat	250 mm	11 th notch from full forward
Passenger Seat	N/a	N/a

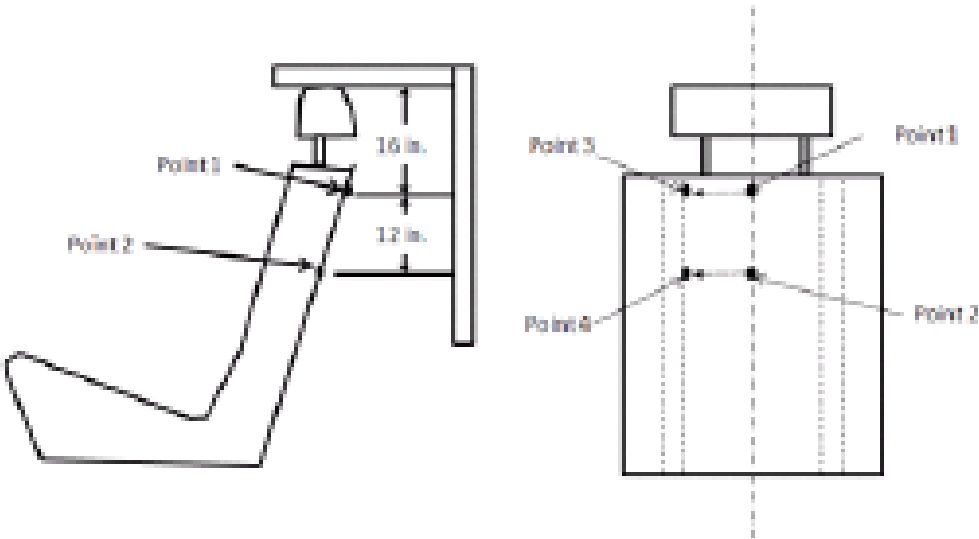
Seat belt position

The adjustable anchorage locations are positioned according to the manufacture's specifications.

SEAT BELT ADJUSTABLE ANCHORAGE (D-RING)		
	Total # of positions	Placed in position #
Driver seat	4	Highest position
Passenger seat	Non-adjustable	N/a

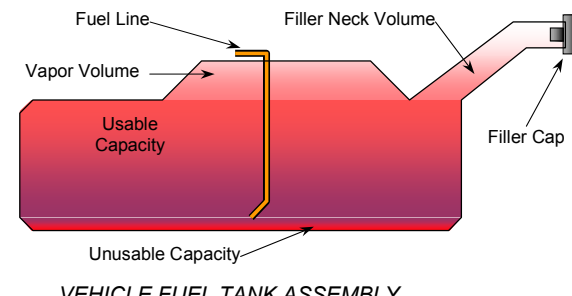


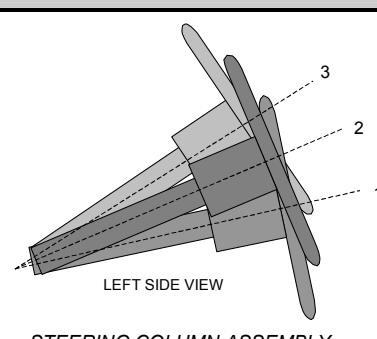
DATA SHEET NO. 2
SEAT ADJUSTMENT, FUEL SYSTEM, AND STEERING WHEEL (CONTINUED)



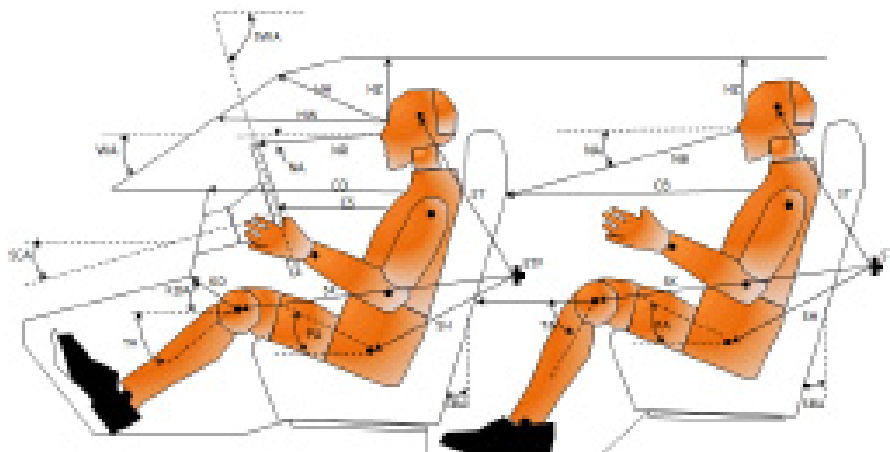
	X	Y	Z
Point 3	Not collected	Not collected	Not collected
Point 4	Not collected	Not collected	Not collected

DATA SHEET NO. 2
SEAT ADJUSTMENT, FUEL SYSTEM, AND STEERING WHEEL (CONTINUED)

FUEL TANK CAPACITY			
Description	Units	Value	 VEHICLE FUEL TANK ASSEMBLY
Usable capacity of standard equipment fuel tank	L	50.0	
Usable capacity of optional equipment fuel tank	L	0	
1/3 of usable capacity	L	16.7	
Amount of ☐ toddard added for test	L	46.4	
% Usable capacity (92%-94%)	%	92.8	
Operational instructions	None		
Electric fuel pump present	Yes		
Operating condition of test vehicle for fuel pump operation	The fuel pump is activated when the ignition is turned on.		

STEERING COLUMN POSITIONS		
Lowermost position no. 1	21.1°	 LEFT SIDE VIEW STEERING COLUMN ASSEMBLY
Geometric center position no. 2	24.7°	
Uppermost position no. 3	28.3°	
Telescopic steering wheel travel	Non-telescoping	
Test position	Mid-position	
Steering wheel positioned 24.7° relative to side sill panel. The steering column also had a telescope adjustment and it was set in the mid position		

DATA SHEET NO. 3
DUMMY LONGITUDINAL CLEARANCE DIMENSIONS



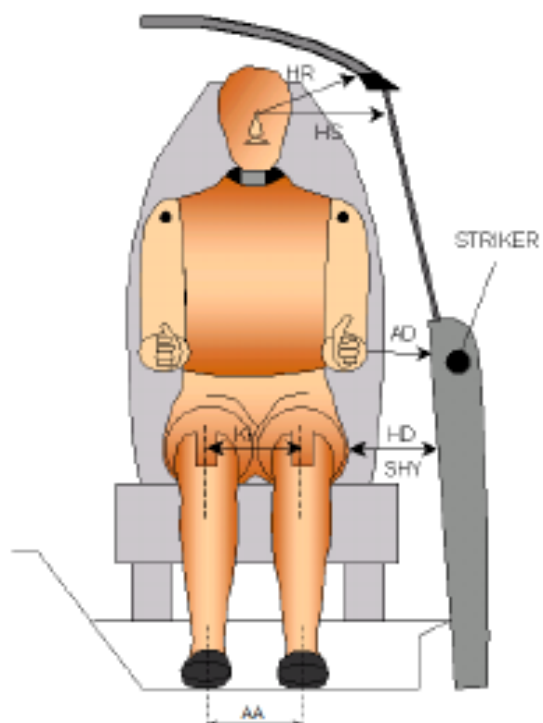
DUMMY LONGITUDINAL CLEARANCE MEASUREMENTS					
Code	Measurement description	Driver		LR passenger	
		Length (mm)	Angle (°)	Length (mm)	Angle (°)
WA°	Windshield angle		28.5		
S WA°	Steering wheel angle		23.0		
SCA°	Steering column angle		22.6		
SA°	Seat back angle (hr post)		12.6		
HZ	Head to roof (Z)	220		272	
HH	Head to header	367			
HW	Head to windshield	630			
NR/NB	Nose to rim/seat back	490	15.2		
CD/CB	Chest to dash/seat back	579		521	
CS	Chest to steering hub	365			
RA	Rim to abdomen	163			
KDL/KDR	Left knee to dash/seat back	144	11.5	257	
KDR/KBR	Right knee to dash/seat back	105	22.4	254	
PA°	Pelvic angle		20.8		22.2
TA°	Tibia angle		50.8		58.1
SK	Striker to knee	675		720	22.3
ST	Striker to head	623		440	55.7
SH	Striker to H-point	308		495	52.1
HAX°	Head angle X				
HAY°	Head angle Y				
NAX°	Neck angle X				
NAY°	Neck angle Y				
TAX°	T angle X				
TAY°	T angle Y				
LAX°	Lumbar angle X				
LAY°	Lumbar angle Y				

DATA SHEET NO. 3b
DUMMY CMM MEASUREMENTS

CMM MEASUREMENTS						
Description	Driver			LR passenger		
	X	Y	Z	X	Y	Z
Striker (driver/passenger)	2148.2	-735.8	-13.9	1157.3	-743.4	-209.4
Head CG	2156.6	-427.8	-568.7	1273.5	-429.7	-484.1
Bridge of nose						
Tip of nose						
Shoulder bolt						
Tip of chin						
H-point	2369.4	-580.8	110.9	1470.1	-489.6	74.4
Left knee	2753.1	-563.2	-51.2	1804.3	-468.3	-3.32
Right knee						
Left ankle	3039.5	-560.4	259.7	2011.4	-473.3	276.7
Right ankle						
Left heel						
Right heel						
Driver's outboard seat anchor bolt						
Outboard head restraint post						
Top of head restraint						
Center of steering wheel	2638.5	-331.4	-308.8			

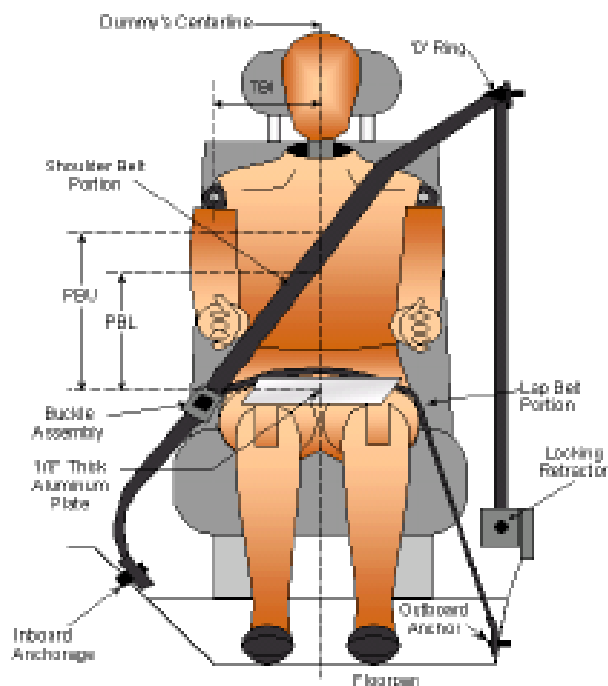
*Empty spaces reflect measurements not taken in the original test

DATA SHEET NO. 4
DUMMY LATERAL CLEARANCE DIMENSIONS



DUMMY LATERAL CLEARANCE DIMENSIONS			
Code	Description	Driver	LR passenger
AD	Arm to door	84	100
HD	H-point to door	121	170
HR	Head to side header	200	234
HS	Head to side window	300	260
KK	Knee to knee	330	233
SHY	Striker to H-point (Y direction)	155	290
AA	Ankle to ankle		

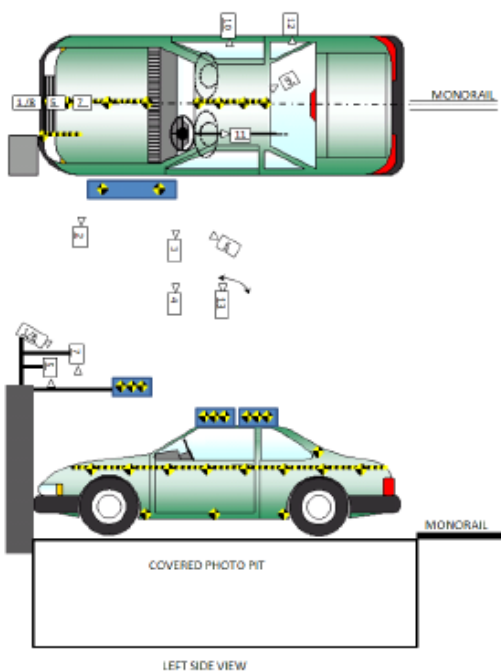
DATA SHEET NO. 5
SEAT BELT POSITIONING DATA



SEAT BELT POSITIONING DATA				
Code	Measurement description	Units	Left front seat	Left rear seat
PBU	Top surface of aluminum plate to belt upper edge	mm	334	310
PBL	Top surface of aluminum plate to belt lower edge	mm	262	240

BELT LENGTH DATA		
Measurement description	Driver	Passenger
Shoulder belt length as measured ATD	878	781
Lap belt length as measured on ATD	698	659
Remainder of belt on reel		
Total belt length for continuous webbing systems		

DATA SHEET NO. 6
HIGH-SPEED CAMERA LOCATIONS AND DATA



HIGH SPEED CAMERA LOCATIONS						
Cam. No.	View	Coordinates			Lens	Rate
		X	Y	Z		
		mm	mm	mm	mm	fps
1	Front view of test vehicle	2541	706	-4796	25	1000
2	Lateral view of test vehicle	-51	-6942	-1197	35	1000
3	Left steering column view of test vehicle	-29	-6966	-1286	50	1000
4	Overall left view of test vehicle	-94	-6879	-1255	25	1000
5	Overhead closeup view of test vehicle	-396	75	-5273	35	1000
6	Overhead oblique view of test vehicle	-6	3084	-2571	25	1000
7	Overhead overall view of test vehicle	22	64	-5252	12.5	1000
8	Windshield view of test vehicle	2398	1862	-5034	50	1000
9	Test vehicle onboard driver oblique view	-1860	134	-633	12.5	1000
10	Test vehicle onboard driver side view	-2334	835	-425	12.5	1000
11	Test vehicle onboard foot view	-2553	-361	287	10	1000
12	Test vehicle onboard passenger side view	-1563	839	-443	12.5	1000
13	Real-time film coverage of test	-	-	-	-	-

Origin

X

Y

Z

Impact Point

Impact Point

Impact Point

Orientation

X

Y

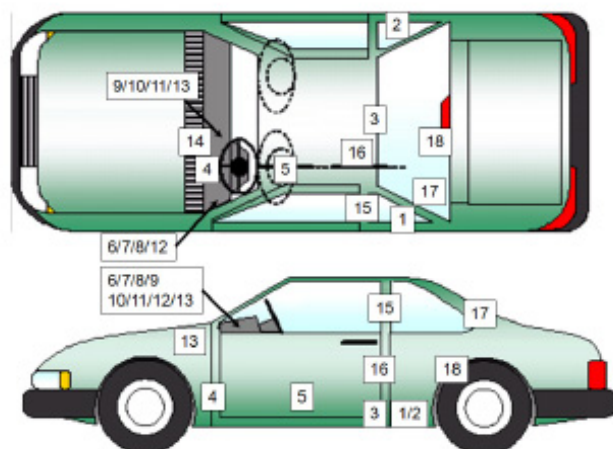
Z

+(X) Forward

+(Y) Right

+(Z) Down

DATA SHEET NO. 7
VEHICLE INSTRUMENTATION LOCATIONS



VEHICLE INSTRUMENTATION DATA						
Loc. no.	Accelerometer location		Positive direction		Negative direction	
			Max	Time (ms)	Max	Time (ms)
1	Left rear seat cross member (G's)	X	3.05	21.0	-22.6	101.8
		Y	10.6	102.6	-4.24	8.24
		Z	9.25	82.4	-10.9	68.8
2	Right rear seat cross member (G's)	X	1.38	199.4	-15.7	117.8
		Y	10.1	92.1	-4.06	8.56
		Z	5.55	43.0	-6.90	29.7
3	Vehicle CG (G's)	X	3.97	24.3	-18.3	117.1
		Y	15.7	36.9	-9.84	7.04
		Z	8.76	60.6	-16.2	79.4
4	Behind brake pedal (G's)	X	1395.2	106.4	-2631.2**	226.2
		Y	2772.5	121.1	-2803.5	158.3
		Z	139.3	88.9	-2817.1*	97.4
5	String pot (V)					
6	Left knee contact switch 1 (V)					
7	Left knee contact switch 2 (V)					
8	Left knee contact switch 3(V)					
9	Right contact switch 1(V)					
10	Right knee contact switch 2 (V)					
11	Right knee contact switch 3(V)					
12	Left driver IP (G's)	X				
		Z				
13	Right driver IP (G's)	X				
		Z				

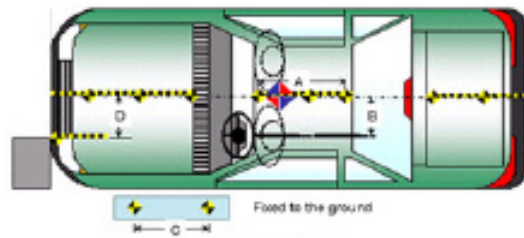
* Channel failed during testing

** Questionable data

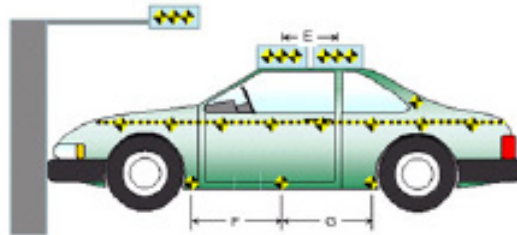
DATA SHEET NO. 7
VEHICLE INSTRUMENTATION LOCATIONS (CONTINUED)

VEHICLE INSTRUMENTATION DATA						
Loc. no.	Accelerometer location		Positive direction		Negative direction	
			Max	Time (ms)	Max	Time (ms)
14	Driver air bag squib (V)	1				
		2				
15	Driver shoulder belt (N)		4427.2	74.9	-24.9	199.6
16	Driver lap belt (N)					
17	Passenger shoulder belt (N)					
18	Passenger lap belt (N)		4601.0	119.8	-19.2	424.1

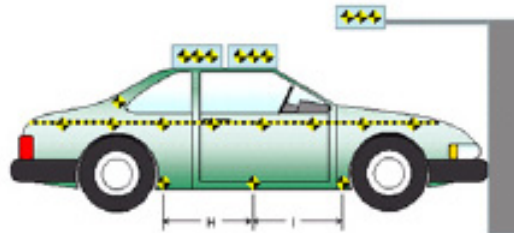
DATA SHEET NO. 8
VEHICLE PHOTOGRAPHIC REFERENCE TARGET LOCATIONS



Top View



Left Side View



Right Side View

VEHICLE PHOTOGRAPHIC REFERENCE TARGET LOCATIONS	
Item	Value
A	1410
B	335
C	
D	
E	883
F	1150
G	1064
H	867
I	7866

DATA SHEET NO. 9
TEST VEHICLE SUMMARY OF RESULTS

ACCELEROMETERS	
Driver dummy accelerometers	31
Passenger dummy accelerometers	21
Vehicle structural accelerometers	24
Total	76

CAMERA COVERAGE	
High speed vehicle onboard	4
High speed vehicle offboard	8
Real-time panning	1
Total	13

DATA SHEET NO. 10
POST TEST OBSERVATIONS

TEST DUMMY INFORMATION AND CONTACT POINTS			
Description	Driver	Passenger	Picture ref.
Dummy type	THOR-LX	HIII 5% female	
Dummy serial no.	0007	421	
Lower leg type	LX	HIII 5% legs	
Lower leg serial no.	LX0036 (left), LX0037 (right)	421	
Head contact	Front/right of head to steering wheel airbag; back bottom to upper seatback on rebound	Chin to sternum and back of head to seatback on rebound	A-51/A-62
Upper torso contact	To steering wheel airbag	No contact	A-51/ A-63
Lower torso contact	Upper abdomen to steering wheel airbag	No contact	A-40/ A-63
Left knee contact	To knee bolster, steering column, and interior door panel	To interior door panel	A-44/A-63
Right knee contact	To knee bolster and steering column	No contact	A-46/A-63

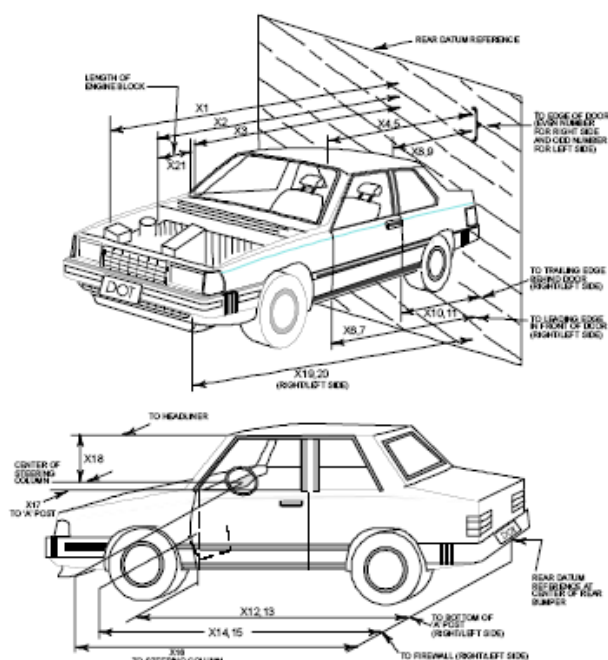
DOOR OPENING AND SEAT TRACK INFORMATION		
Description	Driver	Passenger
Locked/unlocked doors	Unlocked	Unlocked
Front door opening	Closed/locked/inoperable	Closed/locked/operable
Rear door opening	Closed/locked/operable	Closed/locked/operable
Seat track shift (mm)	None	None
Seat back failure	None	None
Glazing damage	No intrusion	N/a

POST TEST STRUCTURAL OBSERVATIONS		
Critical areas of performance	Observations/conclusions	Picture ref.
Windshield damage	Heavy cracking at lower left corner extending along bottom of windshield and along windshield centerline	A-34
Window damage	Driver's side window shattered at impact	A-10
Other notable effects	None noted	N/a

DATA SHEET NO. 10
POST TEST OBSERVATIONS (CONTINUED)

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION				
Restraint type	Driver (occupant 1)		Passenger (occupant 2)	
	Installed	Operated	Installed	Operated
Front airbag	Yes – steering wheel	Deployed	No	N/a
Pelvis/torso airbag	Yes – side back	Disabled	No	N/a
Curtain (or other head) airbag	No	N/a	No	N/a
Knee airbag	No	N/a	No	N/a
Seat belt pretensioner	Yes	Deployed	Yes	Deployed
Seat belt load limiter	Yes	N/a	Yes	N/a

DATA SHEET NO. 11
VEHICLE PROFILE MEASUREMENTS



VEHICLE DIMENSIONS				
Code	Description	Pre test	Post test	Change
		mm	mm	mm
1	Total length of vehicle at centerline	4400	4355	45
2	Rear surface of vehicle to front of engine	3930	3884	46
3	Rear surface of vehicle to firewall	3410	3315	95
4	Rear surface of vehicle to upper leading edge of right door	3150	3145	5
5	Rear surface of vehicle to upper leading edge of left door	3150	3020	130
6	Rear surface of vehicle to lower leading edge of right door	3130	3135	-5
7	Rear surface of vehicle to lower leading edge of left door	3130	3050	80
8	Rear surface of vehicle to upper trailing edge of right door	2035	2035	0
9	Rear surface of vehicle to upper trailing edge of left door	2035	2025	10
10	Rear surface of vehicle to lower trailing edge of right door	2060	2068	-8
11	Rear surface of vehicle to lower trailing edge of left door	2060	2040	20

DATA SHEET NO. 11
VEHICLE PROFILE MEASUREMENTS (CONTINUED)

VEHICLE DIMENSIONS				
Code	Description	Pre test	Post test	Change
		mm	mm	mm
12	Rear surface of vehicle to bottom of "A" post of right side	3160	3178	-18
13	Rear surface of vehicle to bottom of "A" post of left side	3160	3110	50
14	Rear surface of vehicle to firewall, right side	3410	3155	255
15	Rear surface of vehicle to firewall, left side	3410	3135	275
16	Rear surface of vehicle to steering column	2672	2625	47
17	Center of steering column to "A" post	488	485	3
18	Center of steering column to headliner	425	440	-15
19	Rear surface of vehicle to right side of front bumper	4310	4310	0
20	Rear surface of vehicle to left side of front bumper	4310	4145	165
21	Length of engine block	180	180	0
RD	Rear surface of vehicle to right side of dash panel	2840	2840	0
CD	Rear surface of vehicle to center of dash panel	2840	2800	40
LD	Rear surface of vehicle to left side of dash panel	2840	2760	80

DATA SHEET NO. 12
ACCIDENT INVESTIGATION DIVISION DATA

VEHICLE INFORMATION

VIN: 2HGES16665H571093

Vehicle size category: 4-door sedan

Wheelbase (mm): 2619

Test weight (kg): 1445.6

ACCELEROMETER DATA

Accelerometer locations: as given in data sheet no. 7a

Cal. procedure/interval: one (1) year, or as needed

Integration algorithm: _____

Linearity: _____

Impact velocity (km/h): _____

Velocity change (km/h): _____

Time of separation (msec): _____

CRUSH PROFILE

Collision Deformation Classification: 11FLEE5

Midpoint of damage: 1347

Damage region length: 674

Impact mode: vehicle pulled into pole



CRUSH DEPTH DIMENSIONS					
	Measurement description	Units	Pre-test	Post-test	DIFFERENCE
C1	Crush zone 1 at left side	mm	444	*	*
C2	Crush zone 2 at left side	mm	322	414	92
C3	Crush zone 3 at left side	mm	219	295	76
C4	Crush zone 1 at right side	mm	217	281	64
C5	Crush zone 2 at right side	mm	315	378	63
C6	Crush zone 3 at right side	mm	438	575	137
L	C1 to C6	mm	1720	1347	-373

* Damaged in testing, measurement unable to be taken

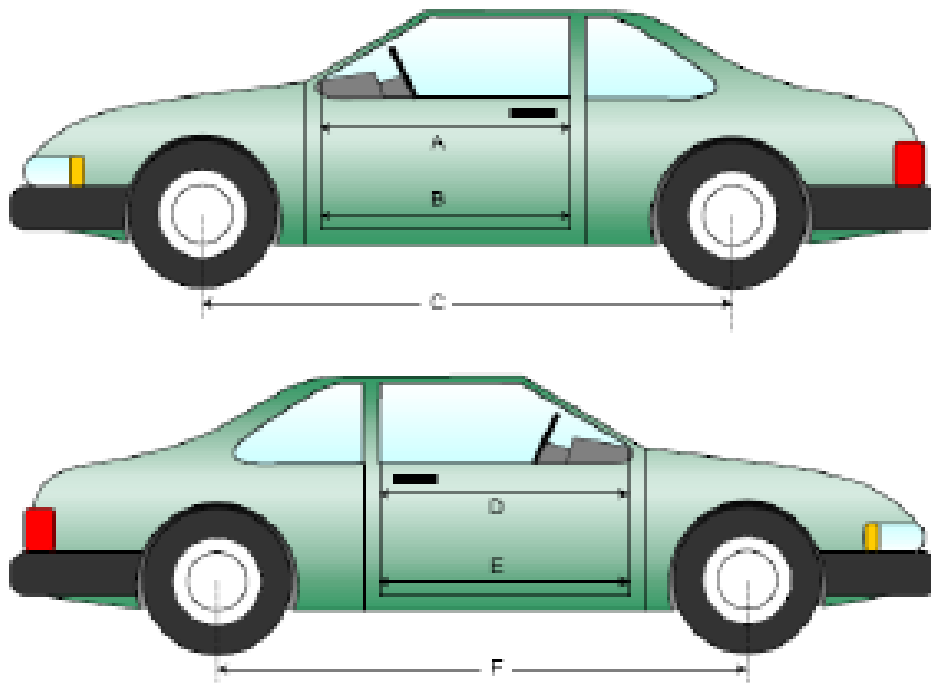
DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS

DOOR OPENING WIDTH					
Item	Description	Units	Pre-test	Post-test	Difference
A	Left side upper	mm	1115*	995	120
B	Left side lower	mm	1070*	1010	60
D	Right side upper	mm	1115*	1110	5
E	Right side lower	mm	1070*	1067	3

WHEELBASE MEASUREMENTS					
Item	Description	Units	Pre-test	Post-test	Difference
C	Left side wheelbase	mm	2619	**	**
F	Right side wheelbase	mm	2619	2629	-10

* Points taken from data sheet 11

** Damaged in testing, measurement unable to be taken

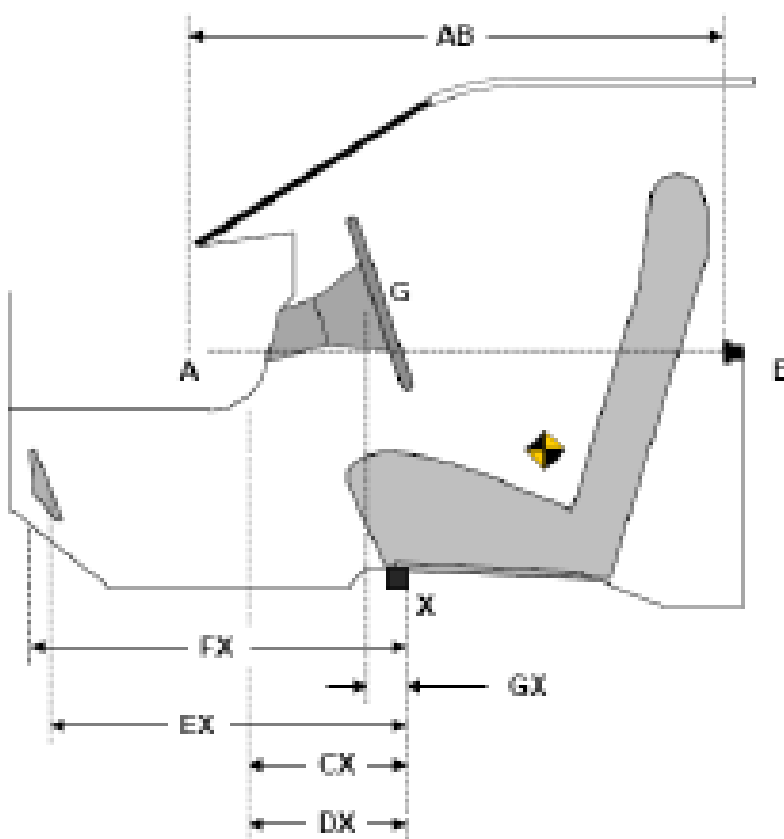


DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

DRIVER COMPARTMENT INTRUSION					
Item	Description	Units	Pre-test	Post-test	Difference
AB	Door opening (inside window jam)	mm	1963	1868	95
CX	Left knee bolster to X	mm	*	*	*
DX	Right knee bolster to X	mm	*	*	*
EX	Brake pedal to X	mm	554	434	120
FX	Foot rest to X	mm	617	607	10
GX	Center of steering column wheel hub to X	mm	62	60	2

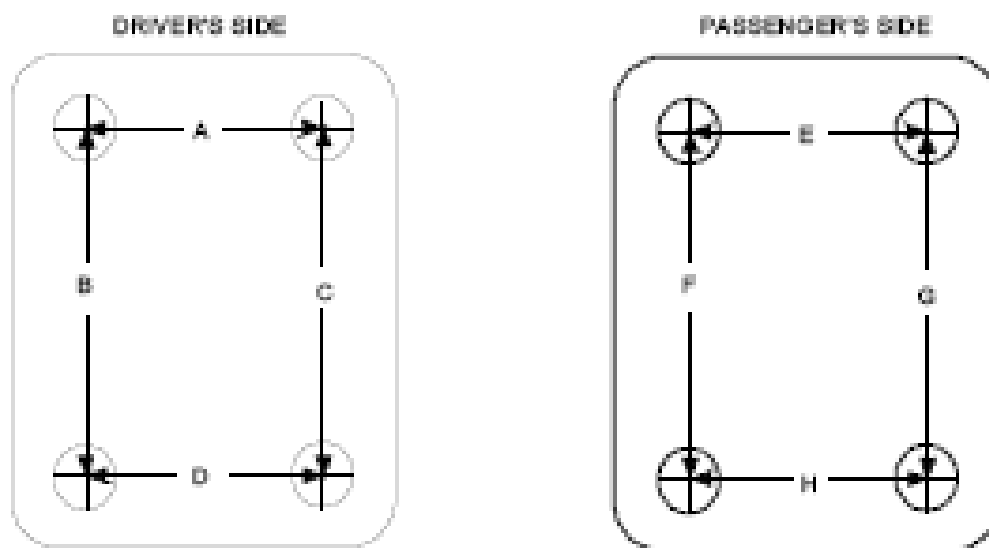
X = Front of seat track (stationary)

* Point not taken as part of original test procedure



DRIVER COMPARTMENT

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)



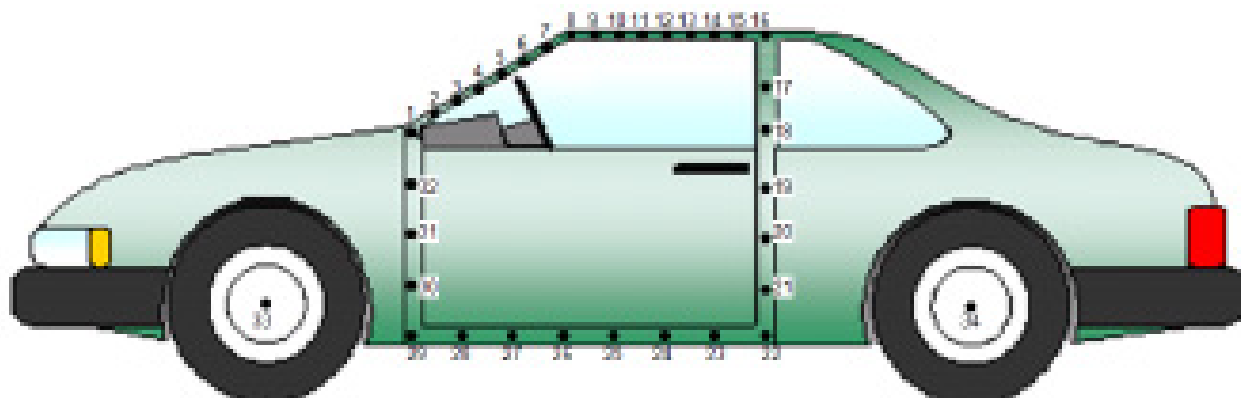
TOP VIEW THROUGH FLOOR PAN

FLOORBOARD DEFORMATION			
Measurement	PRE-TEST	POST-TEST	DIFFERENCE
A	315.1	304.5	10.6
B	237.6	233.8	3.8
C	222.6	217.4	5.2
D	317.0	311.7	5.3
E	*	*	*
F	*	*	*
G	*	*	*
H	*	*	*

All measurements in millimeters

* Measurement not taken as there was no P2 dummy

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)



Left Side View

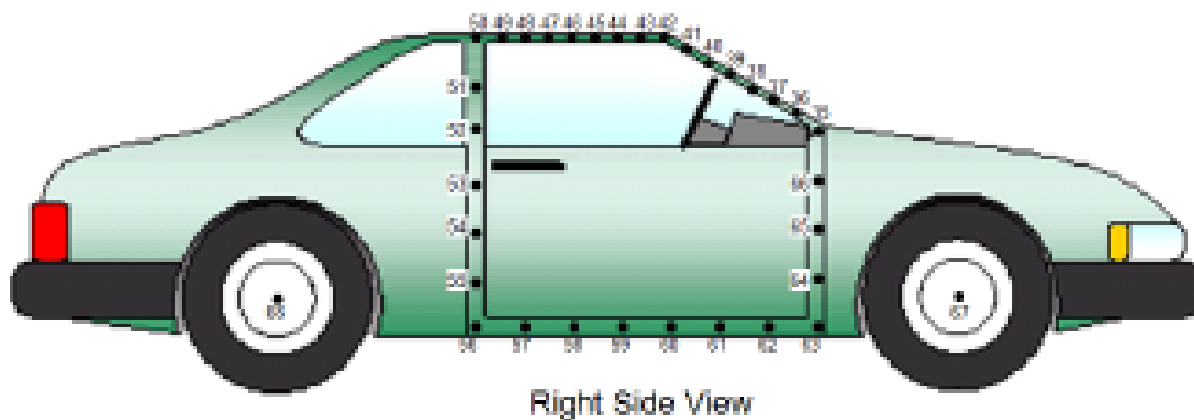
LEFT SIDE DOOR FRAME MEASUREMENTS									
Pt.	Pre-test (mm)			Post-test (mm)			Difference (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
1	3138.0	-773.4	-268.2	2916.1	-759.6	-420.6	-221.9	13.8	-152.4
2									
3									
4									
5									
6									
7	2857.6	-698.0	-472.3	2496.7	-630.3	-729.0	-360.9	67.7	-256.7
8									
9									
10									
11									
12									
13									
14									
15									
16	1950.0	-578.8	-743.8	1936.8	-586.2	-747.6	-13.2	-7.4	3.8
17									
18									
19	2038.5	-778.4	-310.8	2028.8	-777.5	-309.6	-9.7	0.9	-1.2

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

LEFT SIDE DOOR FRAME MEASUREMENTS									
Pt.	Pre-test (mm)			Post-test (mm)			Difference (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
20									
21									
22	2065.1	-798.3	322.0	2057.8	-792.8	322.5	-7.3	5.5	0.5
23									
24									
25									
26									
27									
28									
29	3126.5	-798.8	312.9	3033.2	-764.4	225.0	-93.3	34.4	-87.9
30									
31									
32									
33									
34									

* All measurements taken from Data Sheet Number 12 of original test report

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

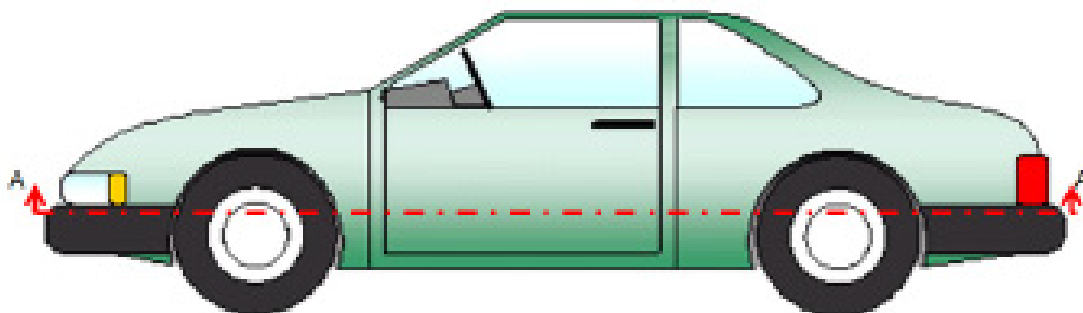
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DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

RIGHT SIDE DOOR FRAME MEASUREMENTS									
Pt.	Pre-test (mm)			Post-test (mm)			Difference (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
54									
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									

* Measurements not taken for test

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

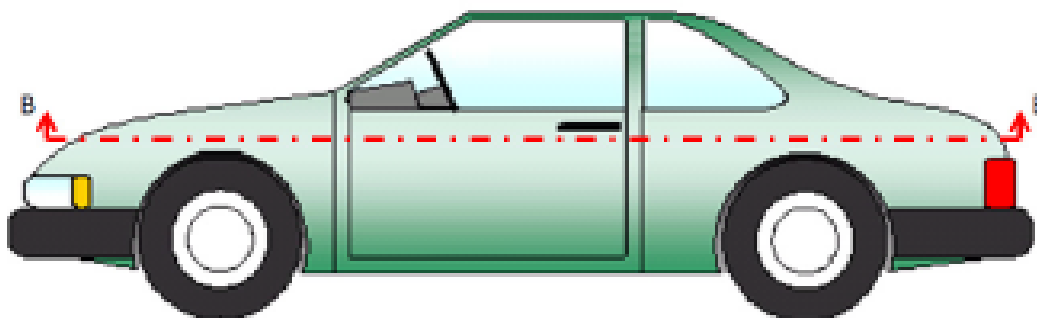


SECTION A - A							
Pt.	Pre-test			Pt.	Post-test		
	X	Y	Z		X	Y	Z
1				1	0.16	110.3	
2				2	-0.93	-15.0	
3				3	0.75	-128.2	
4				4	4.32	-218.8	
5				5	9.41	-312.1	
6				6	17.7	-399.5	
7				7	31.6	-499.0	
8				8	55.9	-604.4	
9				9	125.5	-733.3	
10				10	250.7	-764.1	
11				11	368.8	-779.3	
12				12	502.1	-796.0	
13				13	638.1	-814.2	
14				14	763.0	-834.0	
15				15	1299.2	-836.1	
16				16	1424.9	-834.3	
17				17	1553.0	-831.9	
18				18	1695.0	-832.1	
19				19	1838.9	-832.0	
20				20	1968.3	-831.9	
21				21	2062.6	-838.6	
22				22	3086.3	-694.4	
23				23	3330.5	-452.7	
24				24	3415.0	-459.8	
25				25	3482.9	-474.0	
26				26	3591.8	-501.1	
27				27	4008.0	-518.6	
28				28	4125.2	-498.8	

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

SECTION A - A							
Pt.	Pre-test			Pt.	Post-test		
	X	Y	Z		X	Y	Z
29				29	4257.5	-433.0	
30				30	4289.3	-307.7	
31				31	4313.8	-191.4	
32				32	4332.5	-72.1	
33				33	4345.2	44.6	

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

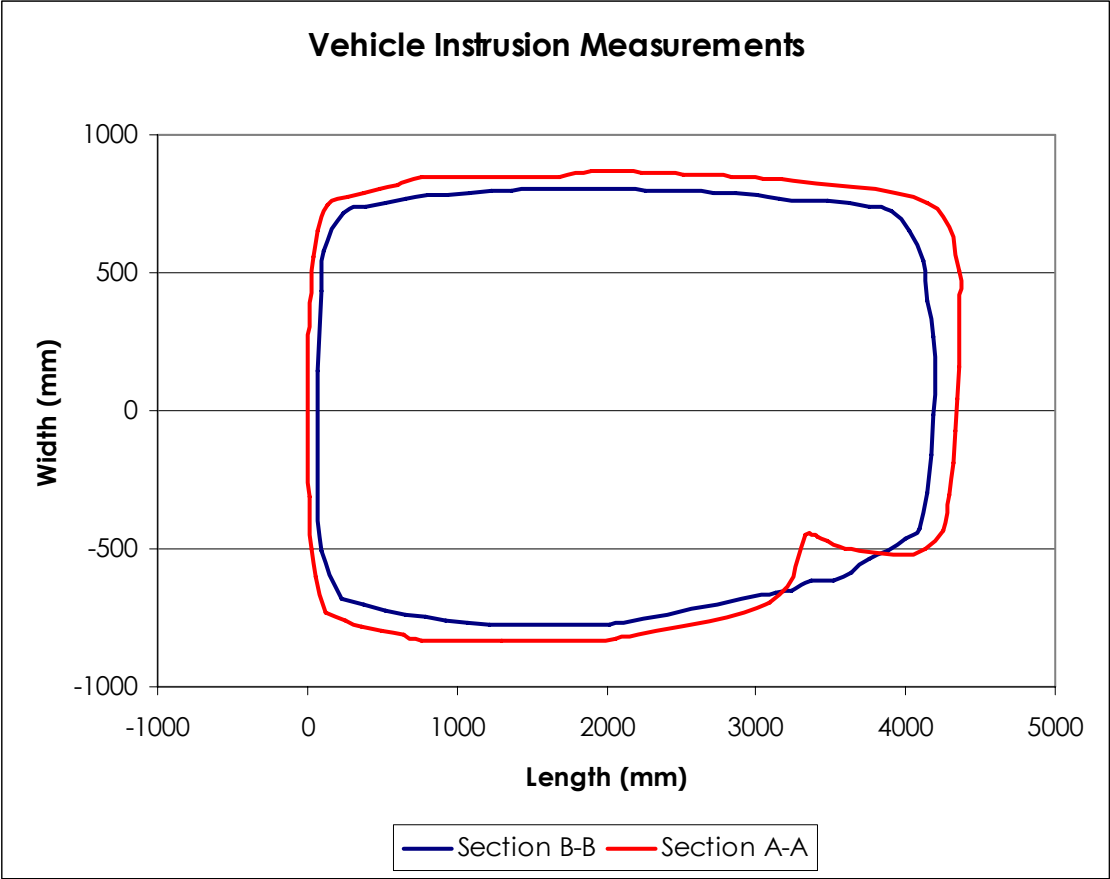


SECTION B - B							
Pt.	Pre-test			Pt.	Post-test		
	X	Y	Z		X	Y	Z
1				1	73.2	143.7	
2				2	69.1	-1.63	
3				3	68.3	-142.4	
4				4	72.2	-288.9	
5				5	94.2	-505.3	
6				6	228.6	-682.0	
7				7	377.6	-705.5	
8				8	522.8	-725.4	
9				9	658.2	-739.4	
10				10	784.7	-749.7	
11				11	928.6	-761.3	
12				12	1074.8	-768.9	
13				13	1219.5	-773.0	
14				14	1360.4	-776.6	
15				15	1504.0	-776.4	
16				16	1647.2	-778.3	
17				17	1792.1	-777.7	
18				18	1932.9	-776.4	
19				19	2026.4	-775.2	
20				20	3128.9	-661.6	
21				21	3229.8	-650.3	
22				22	3366.7	-617.9	
23				23	3513.0	-615.6	
24				24	3642.7	-583.8	
25				25	3752.2	-534.1	
26				26	3878.7	-509.1	
27				27	4000.5	-464.7	
28				28	4084.8	-428.5	

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

SECTION B - B							
Pt.	Pre-test			Pt.	Post-test		
	X	Y	Z		X	Y	Z
29				29	4141.2	-296.9	
30				30	4169.2	-159.9	
31				31	4189.5	-13.7	
32				32	4194.1	126.5	

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)



DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

TEST VEHICLE FRONTAL PROFILE DATA - PRE							
		Vehicle Left			Vehicle Right		
		Pt. 1	Pt. 2	Pt. 3	Pt. 4	Pt. 5	Pt. 6
Bottom of Front Bumper	X	*	4360.2	4389.3	4391.0	4363.7	*
	Y	*	-436.7	-149.4	147.7	451.7	*
	Z	*	164.7	161.1	157.3	151.3	*
Top of Front Bumper	X	*	4357.5	4386.3	4387.7	4361.1	*
	Y	*	-436.9	-143.7	151.5	445.9	*
	Z	*	81.3	76.7	72.4	67.7	*
Upper Radiator Support	X	*	4143.2	4149.2	4150.2	4143.3	*
	Y	*	-440.9	-149.1	149.4	443.3	*
	Z	*	-117.3	-126.4	-130.1	-131.9	*

TEST VEHICLE FRONTAL PROFILE DATA - POST							
		Vehicle Left			Vehicle Right		
		Pt. 1	Pt. 2	Pt. 3	Pt. 4	Pt. 5	Pt. 6
Bottom of Front Bumper	X	*	4288.9	4351.6	4388.6	4397.5	*
	Y	*	-471.3	-187.5	105.0	409.1	*
	Z	*	-2.9	6.4	21.4	38.2	*
Top of Front Bumper	X	*	4275.2	4341.0	4377.2	4386.7	*
	Y	*	-463.2	-176.1	116.4	409.6	*
	Z	*	-87.4	-76.6	-62.3	-44.5	*
Upper Radiator Support	X	*	4054.1	4122.7	4165.4	4170.4	*
	Y	*	-479.9	-202.8	85.7	376.7	*
	Z	*	-295.2	-265.8	-248.6	-231.2	*

* Points not taken due to width of vehicle

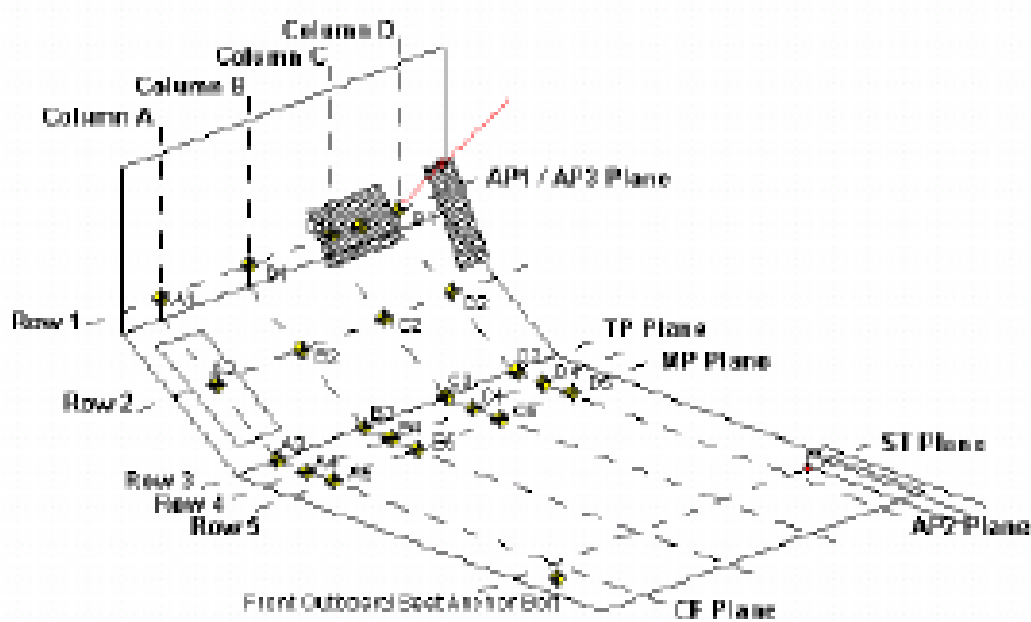
** Bumper became disengaged from vehicle at impact

*** Damaged in testing, measurement unable to be taken

DATA SHEET NUMBER 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

TEST VEHICLE FRONTAL PROFILE DATA - CHANGE							
		Vehicle Left			Vehicle Right		
		Pt. 1	Pt. 2	Pt. 3	Pt. 4	Pt. 5	Pt. 6
Bottom of Front Bumper	X	*	-71.3	-37.7	-2.4	33.8	*
	Y	*	-34.5	-38.1	42.7	42.6	*
	Z	*	-167.6	-154.7	-135.9	-113.1	*
Top of Front Bumper	X	*	-82.3	-45.3	-10.5	25.6	*
	Y	*	26.3	32.4	40.9	36.3	*
	Z	*	-168.7	-153.3	-134.7	-117.2	*
Upper Radiator Support	X	*	-89.1	-26.5	15.4	27.1	*
	Y	*	-35.0	-53.7	-63.7	-66.6	*
	Z	*	-177.9	-139.4	-118.5	-99.3	*

DATA SHEET NUMBER 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)



AP1: Y – Z plane passing through D1

AP2: X – Z plane passing through D1

AP3: X – Y plane passing through D1

MP: Y – Z plane, halfway between the ST plane and the AP1 plane

CF plane: X – Z plane passing through the center of the footrest

BP plane: X – Z plane passing through the center of the brake pedal

TP plane: Y – Z plane, the intersection of the BP plane and the intersection of the toe pan and floorboard

Column A: The intersection of the vehicle and the CF plane

Column D: The intersection of the vehicle and the AP2 plane

Row 1: The intersection of the vehicle and the AP3 plane

Row 3: The intersection of the vehicle of the TP plane

Row 5: The intersection of the vehicle and the MP plane

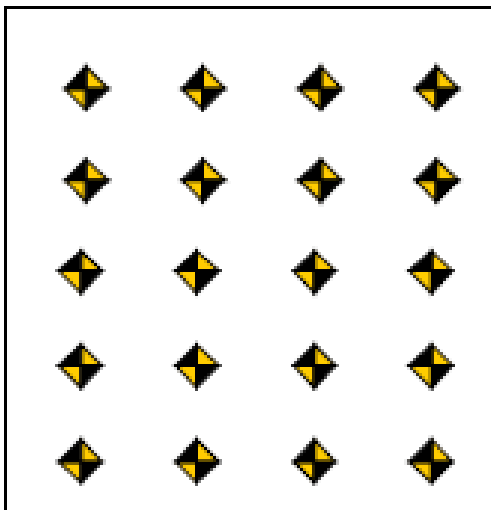
Row 2: evenly spaced between rows 1 and 3

Row 4: evenly spaced between rows 3 and 5

DATA SHEET NUMBER 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

FLOORBOARD MEASUREMENTS									
Intrusion Location	Pre-test (mm)			Post-test (mm)			Difference (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
A1									
B1									
C1									
D1									
A2									
B2									
C2									
D2									
A3									
B3									
C3									
D3									
A4									
B4									
C4									
D4									
Brake pedal									
IP left									
IP right									
Steering column									
Front outboard bolt									

DATA SHEET NUMBER 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)



- Four columns are evenly spaced
- Rows 1 and 2 are located on the toe kick portion of the floor
- Row 3 is located at the intersection of the toe kick and the level portions of the floor
- Rows 4 through 6 are located on the most level portion of the floor
- 28 points were measured

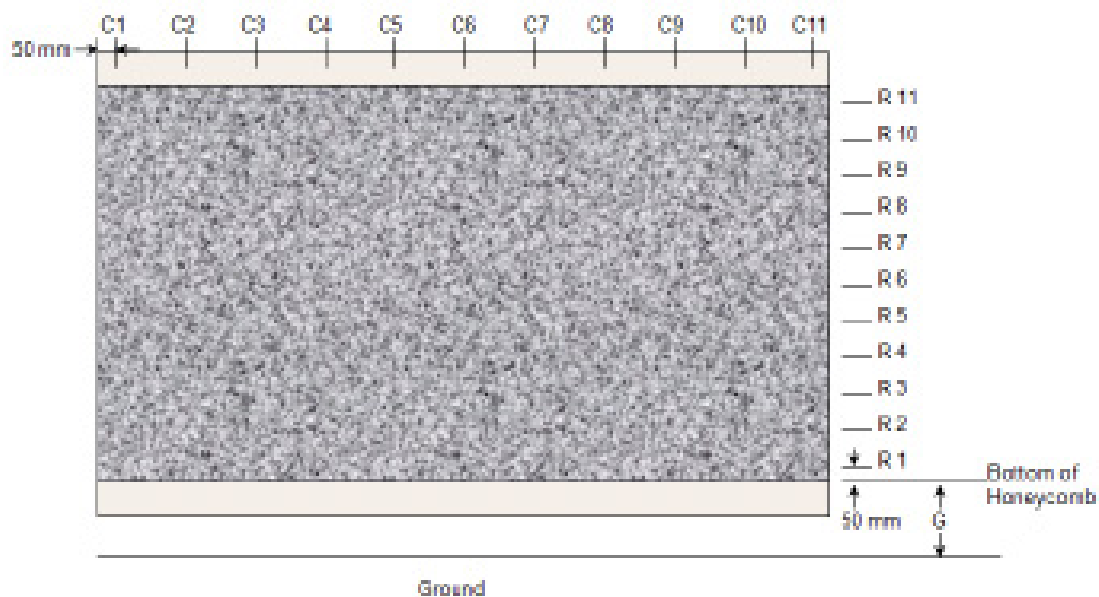
DRIVER SIDE TOE PAN AND FLOORBOARD MEASUREMENTS									
Location	PRE-TEST (mm)			POST-TEST (mm)			CHANGE (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
1	3236.4	-181.9	323.6	3255.5	-194.9	285.7	19.1	-13	-37.9
2	3253.2	-264.1	336.0	3267.9	-275.5	308.6	14.7	-11.4	-27.4
3	3252.8	-341.3	325.4	3249.5	-357.9	306.7	-3.3	-16.6	-18.7
4	3254.0	-404.1	333.7	3250.6	-415.4	317.9	-3.4	-11.3	-15.8
5	3151.8	-182.9	348.7	3159.4	-177.1	353.0	7.6	5.8	4.3
6	3170.2	-255.4	376.4	3179.3	-253.1	355.6	9.1	2.3	-20.8
7	3170.1	-342.5	370.0	3170.8	-340.6	357.6	0.7	1.9	-12.4
8	3162.7	-409.3	373.6	3173.0	-413.2	355.9	10.3	-3.9	-17.7
9	3065.7	-175.4	383.2	3082.8	-185.4	343.5	17.1	-10.0	-39.2
10	3072.8	-254.3	386.5	3087.6	-256.6	363.9	14.8	-2.3	-22.6
11	3080.3	-338.7	383.5	3093.5	-339.9	376.6	13.2	-1.2	-6.9
12	3080.7	-412.4	382.8	3093.0	-413.3	377.9	12.3	-0.9	-4.9
13	3086.6	-490.5	387.9	3094.6	-489.9	388.0	8.0	0.6	0.1
14	2992.2	-176.8	380.8	3014.9	-182.6	346.9	22.7	-5.8	-33.9
15	3000.8	-252.8	381.1	3014.0	-261.4	340.1	13.2	-8.6	-41.0
16	3005.2	-366.5	381.1	3010.0	-332.8	384.7	4.8	33.7	3.6
17	3009.0	-413.2	383.9	3021.1	-411.4	387.9	12.1	1.8	4.0
18	3016.1	-491.3	382.9	3017.0	-493.0	398.9	0.9	-1.7	16.0
19	2920.5	-174.4	378.8	2936.2	-181.4	346.2	15.7	-7.0	-32.6

DATA SHEET NUMBER 13
VEHICLE PRE AND POST MEASUREMENTS (CONTINUED)

DRIVER SIDE TOE PAN AND FLOORBOARD MEASUREMENTS									
Location	PRE-TEST (mm)			POST-TEST (mm)			CHANGE (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
20	2921.9	-253.5	380.8	2940.6	-259.5	346.2	18.7	-6.0	-34.6
21	2927.3	-333.3	381.1	2940.1	-332.5	375.1	12.8	0.8	-6.0
22	2930.8	-414.5	384.9	2942.4	-415.2	376.5	11.6	-0.7	-8.4
23	2935.5	-492.2	385.4	2951.4	-489.3	383.4	15.9	2.9	-2.0
24	2843.1	-173.9	367.9	2865.4	-179.1	331.5	22.3	-5.2	-36.4
25	2846.6	-253.1	381.9	2866.7	-256.0	344.0	20.1	-2.9	-37.9
26	2848.9	-334.9	380.8	2862.8	-337.9	365.8	13.9	-3.0	-15.0
27	2851.3	-413.0	384.6	2866.5	-412.9	377.6	15.2	0.1	-7.0
28	2849.0	-490.9	386.1	2860.8	-490.8	399.5	11.8	0.1	13.4
BP	3157.5	-345.1	184.9	3011.5	-292.8	120.3	-146.0	52.3	-64.6
LB	3017.0	-492.4	40.9	2951.0	-495.5	37.2	-66.0	-3.1	-3.7
RB	3014.3	-235.5	32.3	2973.2	-182.4	-17.4	-41.1	53.1	-49.7
SW	2665.9	-334.8	-288.0	2638.5	-331.4	-308.4	-27.4	3.4	-43.4

*Vehicle measurements as originally taken in test, will follow new measurement format in upcoming testing

DATA SHEET NUMBER 14
MDB CRUSH MEASUREMENTS



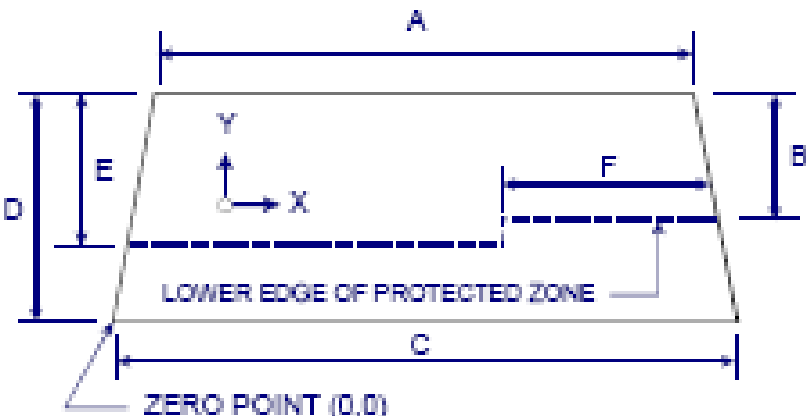
BARRIER X-CRUSH												
		C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
		50 mm	# mm	# mm	# mm	# mm	# mm	# mm	# mm	# mm	# mm	# mm
R1	# mm											
R2	# mm											
R3	# mm											
R4	# mm											
R5	# mm											
R6	# mm											
R7	# mm											
R8	# mm											
R9	# mm											
R10	# mm											
R11	# mm											

* No MDB was used in test

DATA SHEET NUMBER 15
SUMMARY OF FMVSS 212, 219 (PARTIAL), AND 301 DATA

Windshield mounting: standard mount
Temperature of windshield molding during test: not measured

WINDSHIELD PERIPHERY MEASUREMENTS			
Measurement	Pre-test (mm)	Post-test (mm)	% Retention
Left side	2065	1990	96.4
Right side	2065	2048	99.2
Total	4130	4038	97.8



WINDSHIELD MEASUREMENTS		
A	mm	1100
B	mm	447
C	mm	1440
D	mm	795
E	mm	528
F	mm	586

AREA OF PROTECTED ZONE FAILURES

- A. Provide coordinates of the area that the protected zone was penetrated more the 0.25 inches by a vehicle component other than one that is normally in contact with the windshield
- B. Provide coordinates of the area beneath the protected zone that the inner surface of the windshield was penetrated by a vehicle component

A	
X	Y

B	
X	Y

** No windshield penetration of more than 0.25 inches

DATA SHEET NUMBER 15
SUMMARY OF FMVSS 212, 219 (PARTIAL), AND 301 DATA (CONTINUED)

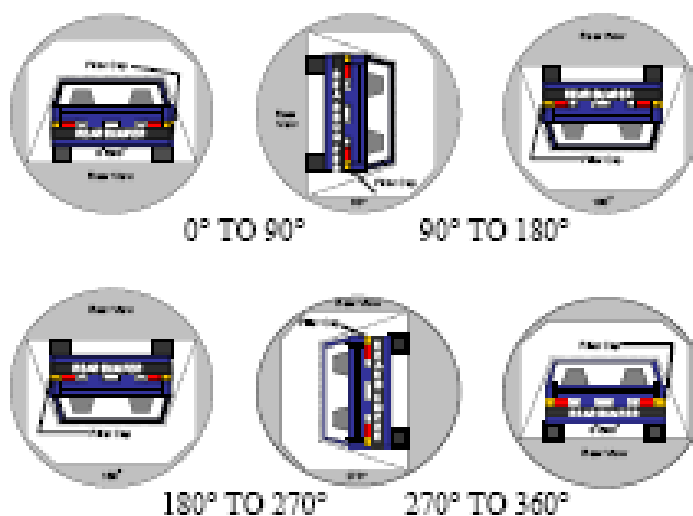
FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Temperature at time of impact: 20° C

Test time: 5:00 pm

STODDARD SOLVENT SPILLAGE MEASUREMENTS				
Period	Description	Maximum allowable spillage	Spillage	
			Amount	Location
A	From impact until vehicle motion ceases	1 oz	0	N/a
B	5 minutes after vehicle motion ceases	5 oz	0	N/a
C	Next 25 minutes	1 oz/minute	0	N/a

DATA SHEET NUMBER 16
SUMMARY OF FMVSS 301 STATIC ROLLOVER RESULTS

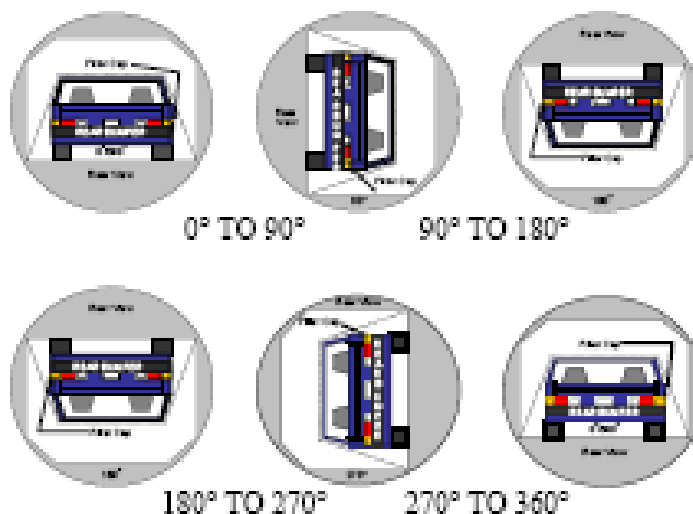


FMVSS301 SOLVENT COLLECTION TIME TABLE			
Test phase	Rotation time (sec.)	Hold time (sec.)	Total time (sec.)
Tolerance	60-180	>= 300	-
0° to 90°	65	300	365
90° to 180°	65	300	365
180° to 270°	65	300	365
270° to 360°	65	300	365

FMVSS 301 SPILLAGE TABLE				
Test phase	First 5 min.	6 th min.	7 th min.	8 th min.
0° to 90°	0	0	0	0
90° to 180°	0	0	0	0
180° to 270°	0	0	0	0
270° to 360°	0	0	0	0

FMVSS 301 SPILLAGE TABLE	
Test phase	Spillage location
0° to 90°	N/a
90° to 180°	N/a
180° to 270°	N/a
270° to 360°	N/a

DATA SHEET NUMBER 16A
SUMMARY OF FMVSS 305 STATIC ROLLOVER RESULTS FOR
ELECTRIC-POWERED VEHICLES



FMVSS305 ELECTROLYTE COLLECTION TIME TABLE			
Test phase	Rotation time (sec.)	Hold time (sec.)	Total time (sec.)
Tolerance	60-180	>= 300	-
0° to 90°			
90° to 180°			
180° to 270°			
270° to 360°			

FMVSS305 ELECTROLYTE SPILLAGE TABLE	
Test phase	Spillage location
0° to 90°	N/a
90° to 180°	N/a
180° to 270°	N/a
270° to 360°	N/a

Total spillage (L):

- Is the total spillage of propulsion battery electrolyte greater than 5.0 Liters?
 YES NO (fail)
- Is propulsion battery electrolyte spillage visible in the passenger compartment?
 YES NO (fail)

DATA SHEET NUMBER 16A
SUMMARY OF FMVSS 305 STATIC ROLLOVER RESULTS FOR
ELECTRIC-POWERED VEHICLES (CONTINUED)

ELECTRICAL ISOLATION CALCULATION

$$Ri1 = Ro (1 + V2/V1)[V1 - V1']/V1'$$

Ri1 = _____ Ω 90°	Time: _____ minutes _____ seconds
Ri1 = _____ Ω 180°	Time: _____ minutes _____ seconds
Ri1 = _____ Ω 270°	Time: _____ minutes _____ seconds
Ri1 = _____ Ω 360°	Time: _____ minutes _____ seconds

$$Ri2 = Ro (1 + V2/V1)[V2 - V2']/V2'$$

Ri2 = _____ Ω 90°	Time: _____ minutes _____ seconds
Ri2 = _____ Ω 180°	Time: _____ minutes _____ seconds
Ri2 = _____ Ω 270°	Time: _____ minutes _____ seconds
Ri2 = _____ Ω 360°	Time: _____ minutes _____ seconds

Ri = the lesser of Ri1 and Ri2

Ri = _____ Ω 90°	Time: _____ minutes _____ seconds
Ri = _____ Ω 180°	Time: _____ minutes _____ seconds
Ri = _____ Ω 270°	Time: _____ minutes _____ seconds
Ri = _____ Ω 360°	Time: _____ minutes _____ seconds

Ri/Vb = electrical isolation value/nominal battery voltage

Minimum electrical isolation value is 500 Ω /V

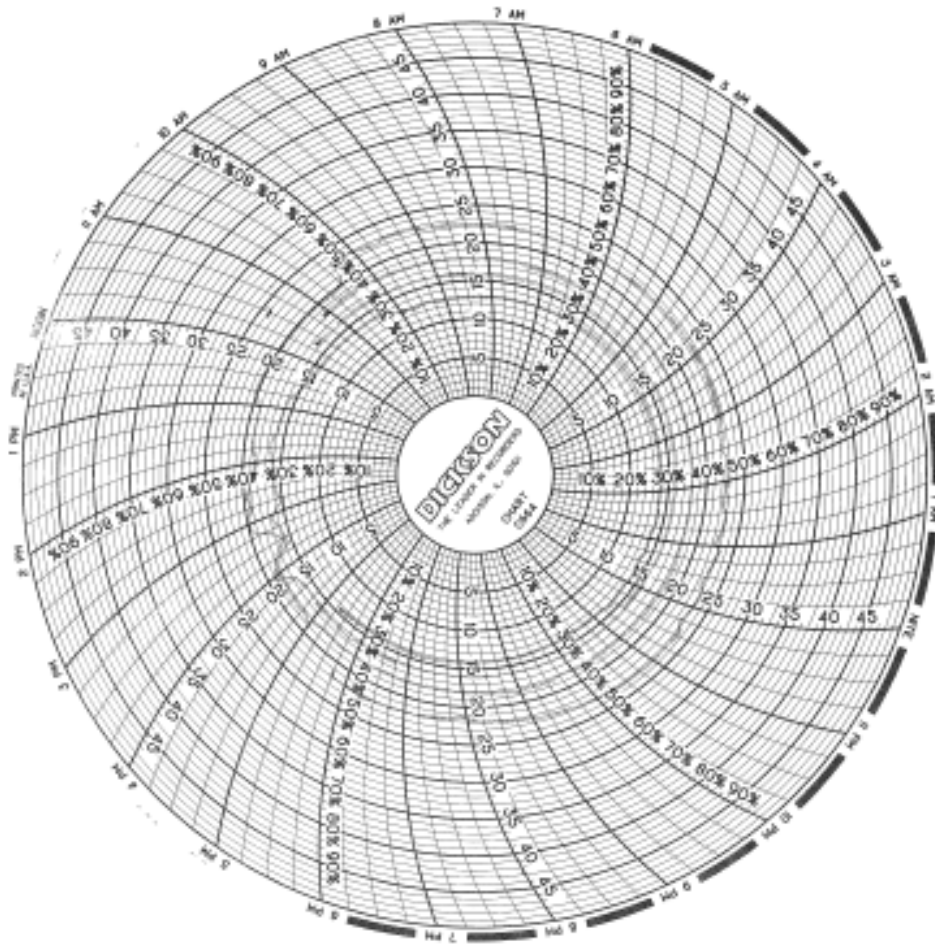
Ri/Vb = _____ Ω 90°	Time: _____ minutes _____ seconds
Ri/Vb = _____ Ω 180°	Time: _____ minutes _____ seconds
Ri/Vb = _____ Ω 270°	Time: _____ minutes _____ seconds
Ri/Vb = _____ Ω 360°	Time: _____ minutes _____ seconds

- Is the measured electrical isolation value $\geq$ 500 Ω /V?
 YES NO (fail)

COMMENTS:

Note: If measured voltage is zero and results in a division by zero, record "zero volts." This "zero voltage" condition is considered as being compliant.

DATA SHEET NUMBER 17
DUMMY/VEHICLE TEMPERATURE STABILIZATION



DATA SHEET NUMBER 18
PRE-IMPACT ELECTRIC ISOLATION MEASUREMENTS AND CALCULATIONS
(ELECTRIC VEHICLES ONLY)

VOLTMETER INFORMATION

Make: _____
Model: _____
S/n: _____
Internal impedance value (M Ω): _____
Resolution (V): _____
Last calibration date: _____

PROPULSION BATTERY INFORMATION

Normal operating voltage range specified by the manufacturer = V_b = _____ V

PROPULSION BATTERY TO VEHICLE CHASSIS

Vehicle chassis point(s) determined and supplied to contractor by COTR

V_1 = _____ V
 V_2 = _____ V

PROPULSION BATTERY TO VEHICLE CHASSIS ACROSS RESISTOR

R_o = _____ Ω

ELECTRICAL ISOLATION MEASUREMENT

Note: If measured voltage is zero and results in a division by zero, record "zero volts." This "zero voltage" condition is considered as being compliant.

$V_1' =$ _____ V
 $R_{i1} = R_o (1 + V_2/V_1)[(V_1 - V_1')/V_1']$
 $R_{i1} =$ _____ Ω
 $V_2' =$ _____ V
 $R_{i2} = R_o (1 + V_1/V_2)[(V_2 - V_2')/V_2']$
 $R_{i2} =$ _____ Ω
 R_i = the lesser of R_{i1} and R_{i2}
 $R_i =$ _____ Ω pre-test
 $R_i/V_b =$ _____ Ω/V (electrical isolation value); minimum = 500 Ω/V

- Is the measured electrical isolation value $\geq$ 500 Ω/V ?
YES NO (fail)

COMMENTS:

DATA SHEET NUMBER 19
POST-IMPACT ELECTRIC ISOLATION MEASUREMENTS AND CALCULATIONS
(ELECTRIC VEHICLES ONLY)

Make: _____
 Model: _____
 S/n: _____
 Internal impedance value: _____ MΩ
 Nominal propulsion battery voltage (Vb): _____ V

Note: Record V1, V2, and V1', V2' voltage measurements immediately after the impacted vehicle comes to rest.

V1 = _____ V; Impact time: _____ minutes _____ s
 V2 = _____ V; Impact time: _____ minutes _____ s
 V1' = _____ V; Impact time: _____ minutes _____ s
 V2' = _____ V; Impact time: _____ minutes _____ s

ELECTRICAL ISOLATION MEASUREMENT

Note: If measured voltage is zero and results in a division by zero, record "zero volts." This "zero voltage" condition is considered as being compliant.

$R_{i1} = R_o (1 + V2/V1)[(V1 - V1')/V1']$
 $R_{i1} =$ _____ Ω Impact time: _____ minutes _____ s
 $R_{i2} = R_o (1 + V1/V2)[(V2 - V2')/V2']$
 $R_{i2} =$ _____ Ω Impact time: _____ minutes _____ s
 $R_i = \text{the lesser of } R_{i1} \text{ and } R_{i2}$
 $R_i =$ _____ Ω Impact time: _____ minutes _____ s
 $R_i/V_b = \text{Electrical isolation value/Nominal battery voltage}$
 Minimum electrical isolation value is 500 Ω/V
 $R_i/V_b =$ _____ Ω/V Impact time: _____ minutes _____ s

- Is the measured electrical isolation value $\geq 500 \text{ } \Omega/\text{V}$?
 YES NO (fail)

PROPULSION BATTERY SYSTEM COMPONENTS

Describe propulsion battery module movement within the passenger compartment:

DATA SHEET NUMBER 19
POST-IMPACT ELECTRIC ISOLATION MEASUREMENTS AND CALCULATIONS (CONTINUED)
(ELECTRIC VEHICLES ONLY)

Has the propulsion battery module moved within the passenger compartment?

YES NO (fail)

Describe intrusion of an outside propulsion battery component into the passenger compartment:

Has an outside propulsion battery component intruded into the passenger compartment?

YES NO (fail)

Is propulsion battery electrolyte spillage visible in the passenger compartment?

YES NO (fail)

APPENDIX A
PHOTOGRAPHS

LIST OF PHOTOGRAPHS

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A-63	Post test passenger knee contact	A-35
A-64	Impact	A-35
A-65	FMVSS301 0 degree	A-36
A-66	FMVSS301 90 degree	A-36
A-67	FMVSS301 180 degree	A-37
A-68	FMVSS301 270 degree	A-37
A-69	FMVSS301 360 degree	A-38



Figure A-1: Left front 3/4 view, as received



Figure A-2: Left rear 3/4 view, as received



Figure A-1: Manufacturer's label



Figure A-2: Tire placard



Figure A-5: Pre test front view of test vehicle



Figure A-6: Post test front view of test vehicle



Figure A-7: Pre test left front 3/4 view of test vehicle



Figure A-8: Post test left front 3/4 view of test vehicle



Figure A-9: Pre test left side view of test vehicle



Figure A-10: Post test left side view of test vehicle



Figure A-11: Pre test left rear 3/4 view of test vehicle



Figure A-12: Post test left rear 3/4 view of test vehicle



Figure A-13: Pre test rear view of test vehicle



Figure A-14: Post test rear view of test vehicle



Figure A-15: Pre test right rear 3/4 view of test vehicle



Figure A-16: Post test right rear 3/4 view of test vehicle



Figure A-17: Pre test right side view of test vehicle



Figure A-18: Post test right side view of test vehicle



Figure A-19: Pre test right front 3/4 view of test vehicle



Figure A-20: Post test right front 3/4 view of test vehicle



Figure A-21: Pre test front left side view of left side doors



Figure A-22: Post test left side view of left side doors



Figure A-23: Pre test front right 3/4 view of right side doors



Figure A-24: Post test front right 3/4 view of right side doors



Figure A-25: Pre test engine compartment (underneath)



Figure A-26: Post test engine compartment



Figure A-27: Pre test fuel cap



Figure A-28: Post test fuel cap



Figure A-29: Pre test front underbody



Figure A-30: Post test front underbody



Figure A-31: Pre test mid-underbody



Figure A-32: Post test mid-underbody



Figure A-33: Pre test driver front



Figure A-34: Post test driver front



Figure A-35: Pre test driver through window



Figure A-36: Post test driver through window



Figure A-37: Pre test driver (door open)



Figure A-38: Post test driver (door open)



Figure A-39: Pre test driver abdomen close-up

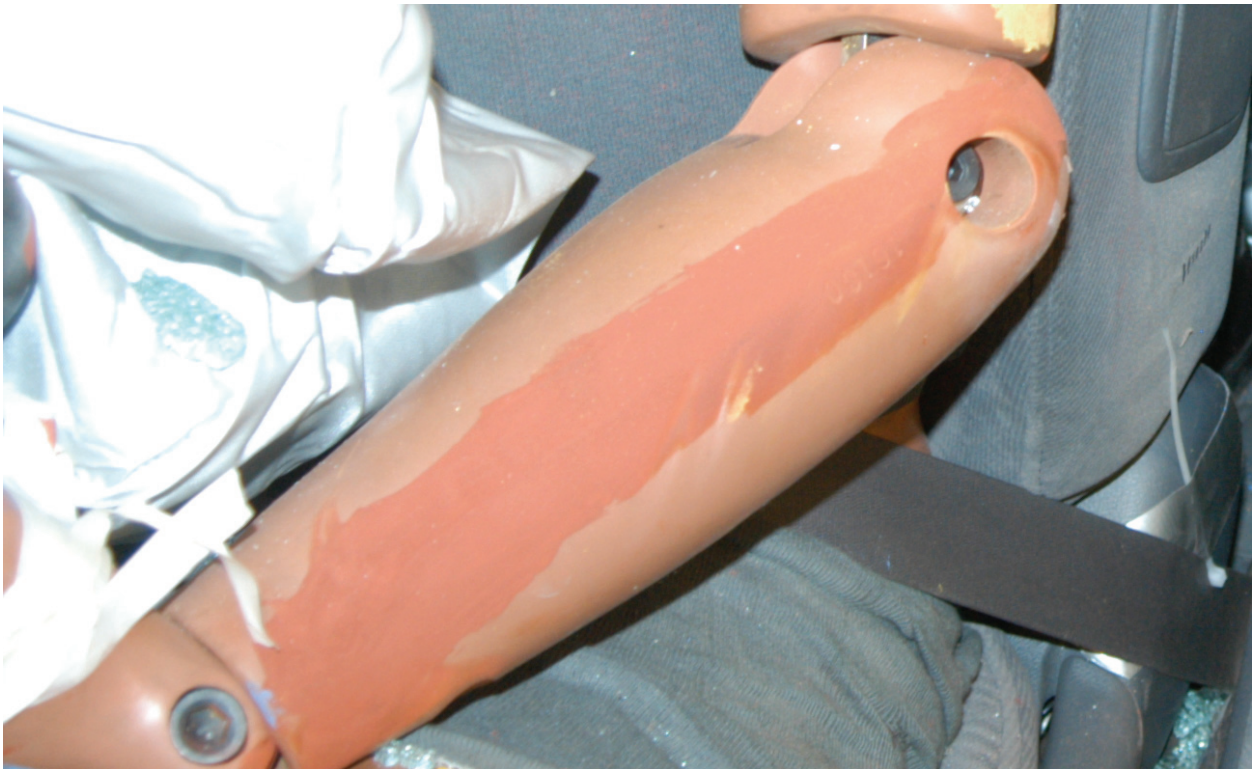


Figure A-40 Post test driver abdomen close-up



Figure A-41: Pre test driver feet



Figure A-42: Post test driver feet



Figure A-43: Pre test driver foot/leg close-up



Figure A-44: Post test driver foot/leg close-up



Figure A-45: Pre test driver knee bolster

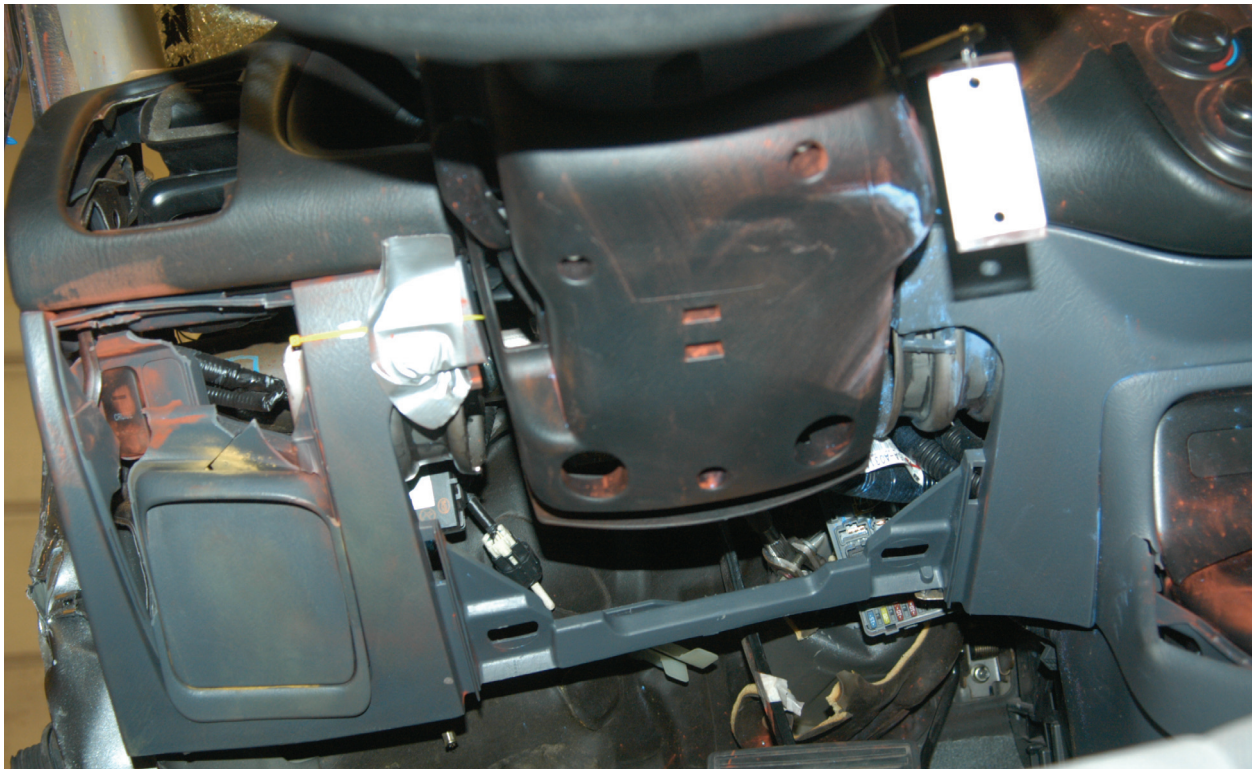


Figure A-46: Post test driver knee bolster



Figure A-47: Pre test driver floor-pan



Figure A-48: Post test driver head contact



Figure A-49: Post test driver head contact (b-pillar)



Figure A-50: Post test driver knee contact



Figure A-51: Post test driver airbag contact



Figure A-52: Pre test passenger right



Figure A-53: Post test passenger left/overhead



Figure A-54: Pre test passenger through window



Figure A-55: Post test passenger through window



Figure A-56: Pre test passenger door open



Figure A-57: Post test passenger door open



Figure A-58: Pre test passenger feet



Figure A-59: Post test passenger feet



Figure A-60: Pre test passenger foot/leg close-up



Figure A-61: Post test passenger foot/leg close-up



Figure A-62: Post test passenger head contact



Figure A-63: Post test passenger knee contact



Figure A-64: Impact



Figure A-65: FMVSS301 0 degrees



Figure A-66: FMVSS301 90 degrees



Figure A-67: FMVSS301 180 degrees

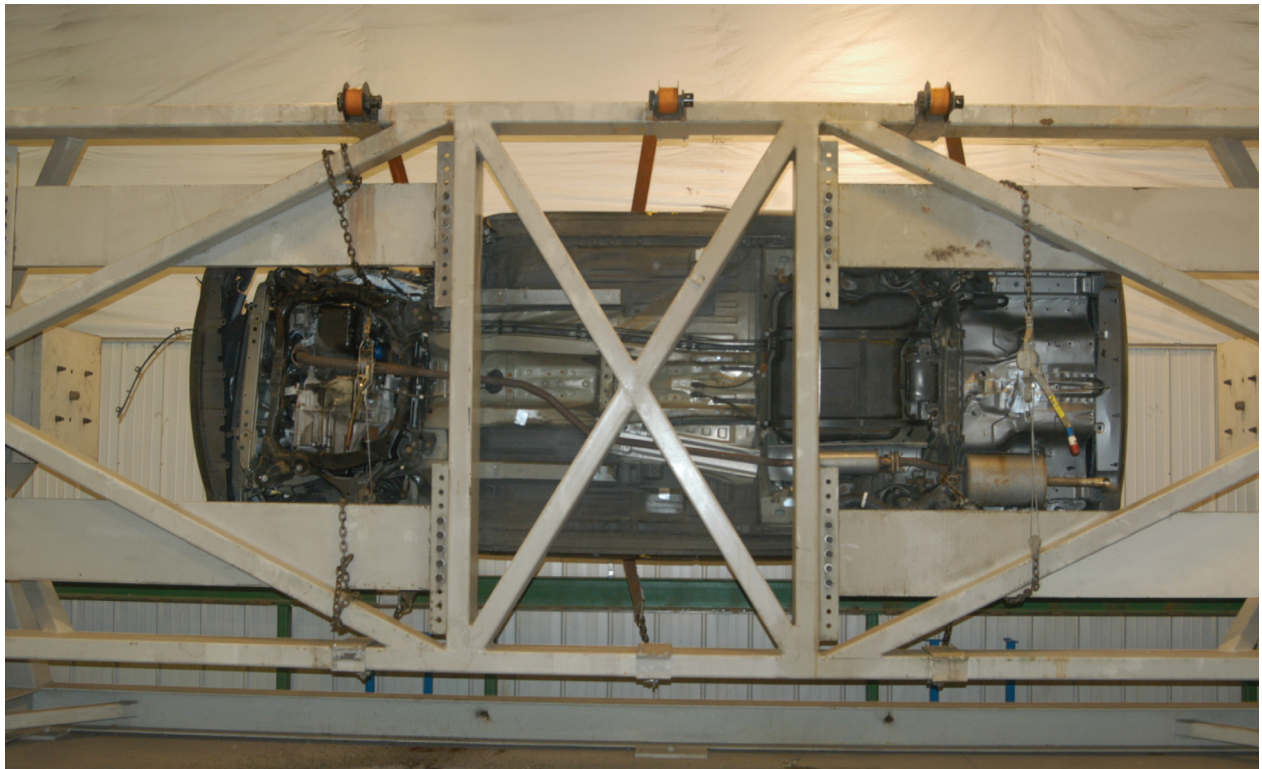


Figure A-68: FMVSS301 270 degrees



Figure A-69: FMVSS301 360 degrees

APPENDIX B

THOR/HIII – 5th PERCENTILE, VEHICLE AND POLE RESPONSE DATA

The following plots are provided in the test report

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005	Driver left ankle rotation YL	B-10
006	Driver left ankle rotation ZL	B-11
007	Driver left knee shear displacement ZL	B-12
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010	Driver left foot acceleration XL	B-15
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013	Driver right upper tibia force XL	B-18
014	Driver right upper tibia force YL	B-19
015	Driver right upper tibia force ZL	B-20
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018	Driver right lower tibia force XL	B-23
019	Driver right lower tibia force YL	B-24
020	Driver right lower tibia force ZL	B-25
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030	Driver right foot acceleration YL	B-35
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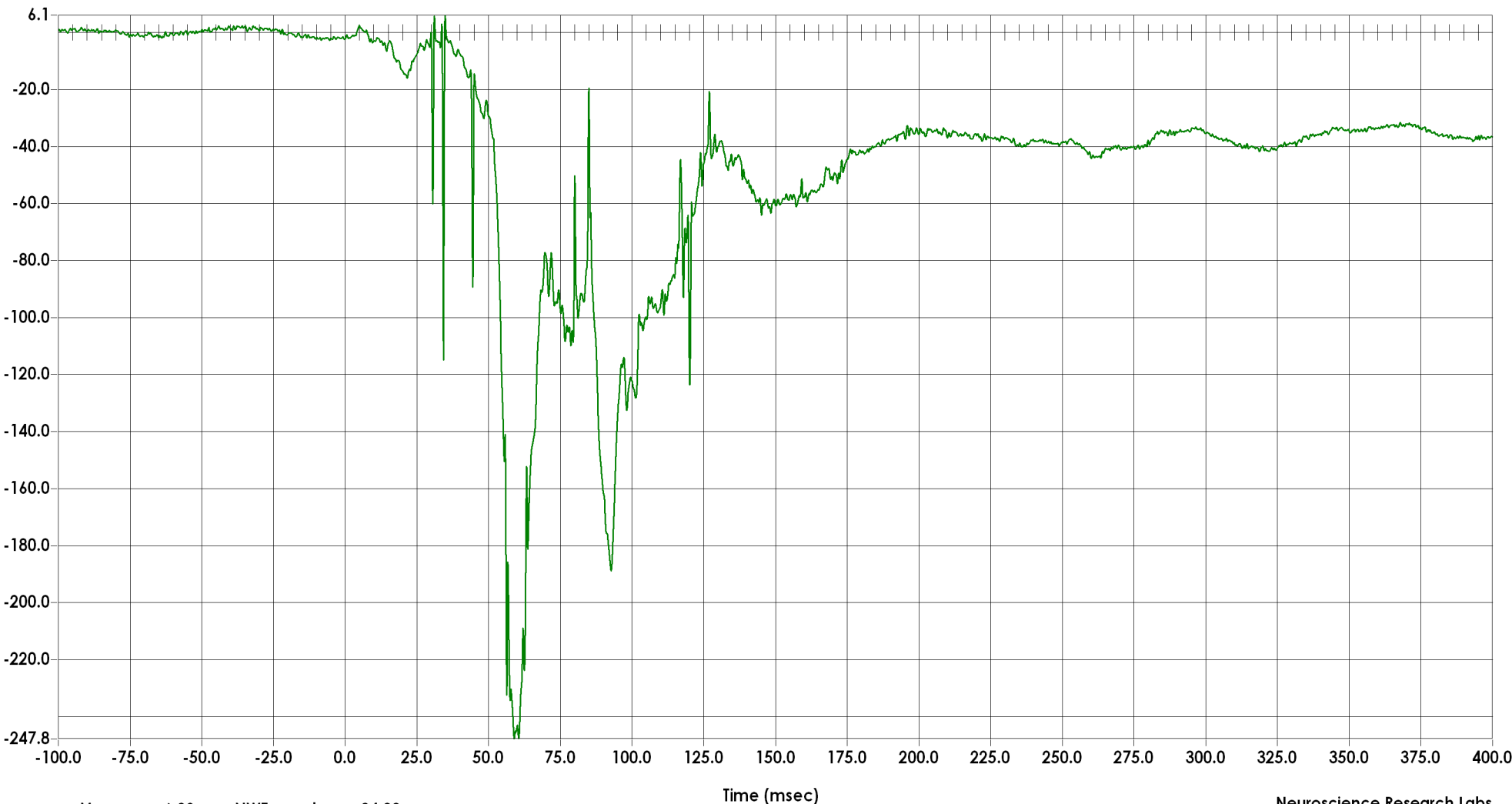
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Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLL
Sensor Info Denton 4929J
Serial Number 4929J_140_FZ



NWT Driver Left Lower Tibia Force ZL



Max 6.09 NWT at 34.80 msec
Min -247.84 NWT at 58.88 msec

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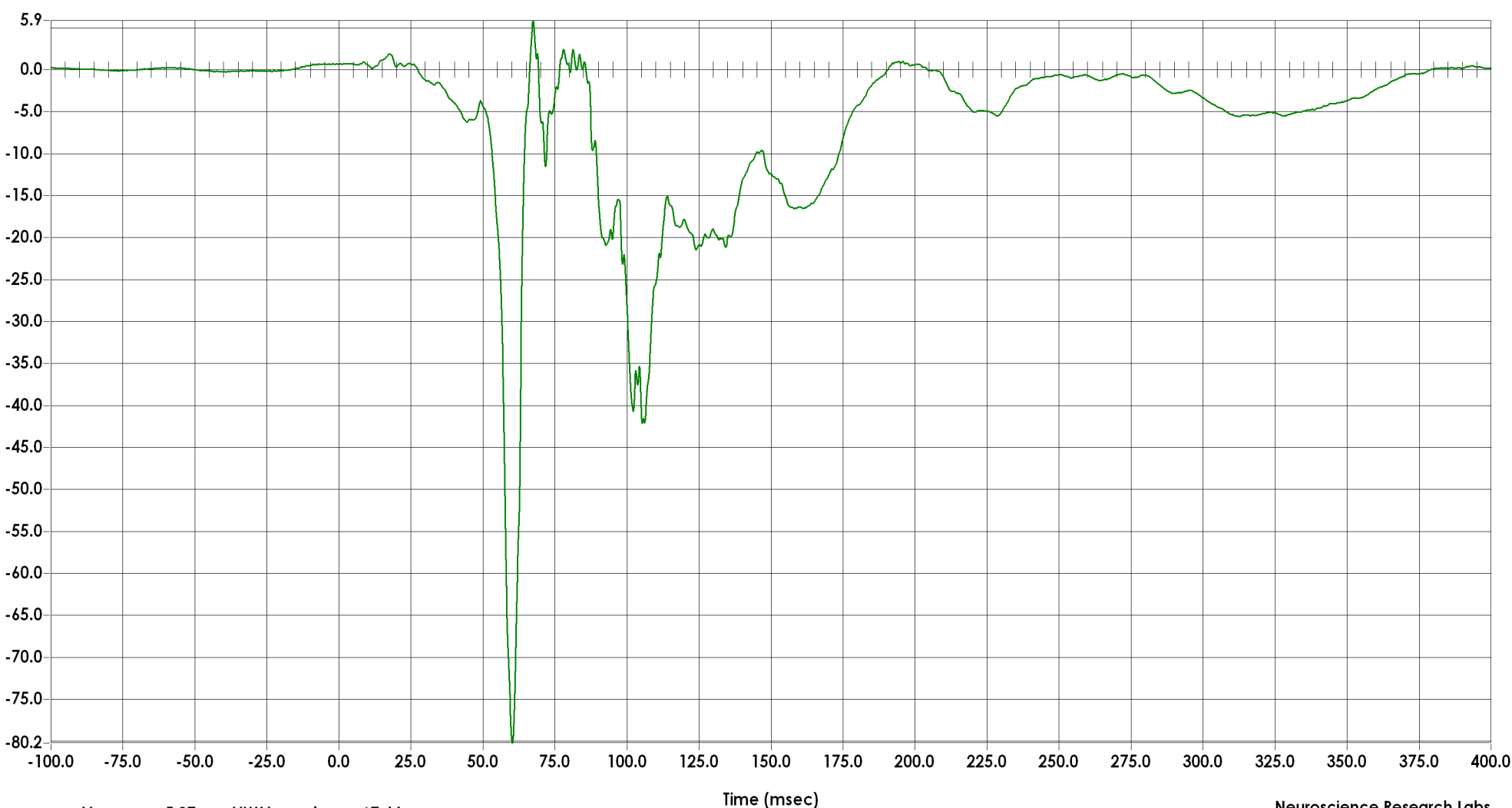
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Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLL
Sensor Info Denton 4929J
Serial Number 4929J_140_MX



NWM Driver Left Lower Tibia Moment XL



Max 5.87 NWM at 67.44 msec
Min -80.22 NWM at 60.16 msec

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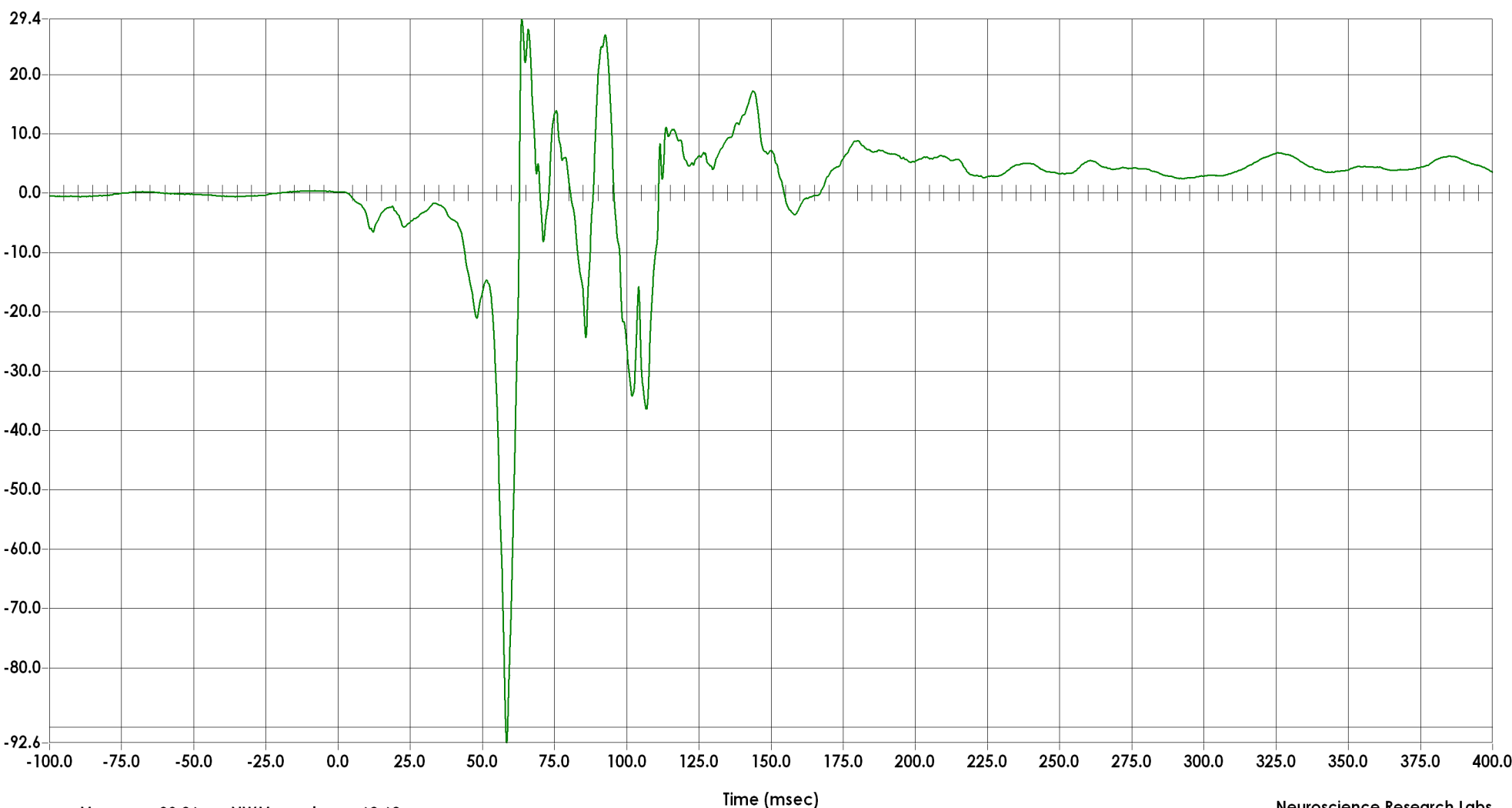
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Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLL
Sensor Info Denton 4929J
Serial Number 4929J_140_MY



NWM Driver Left Lower Tibia Moment YL



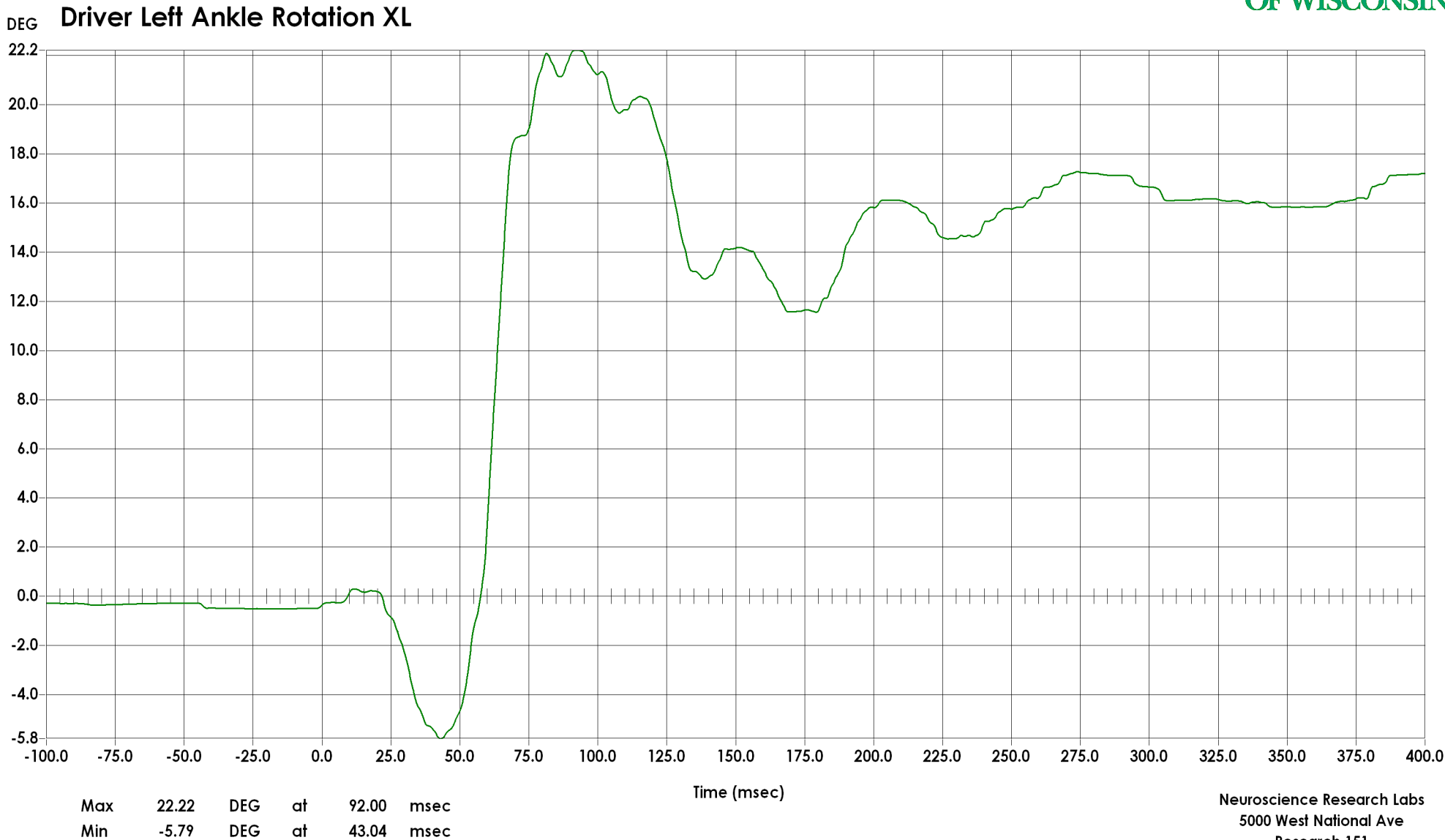
Max 29.36 NWM at 63.68 msec
Min -92.65 NWM at 58.40 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

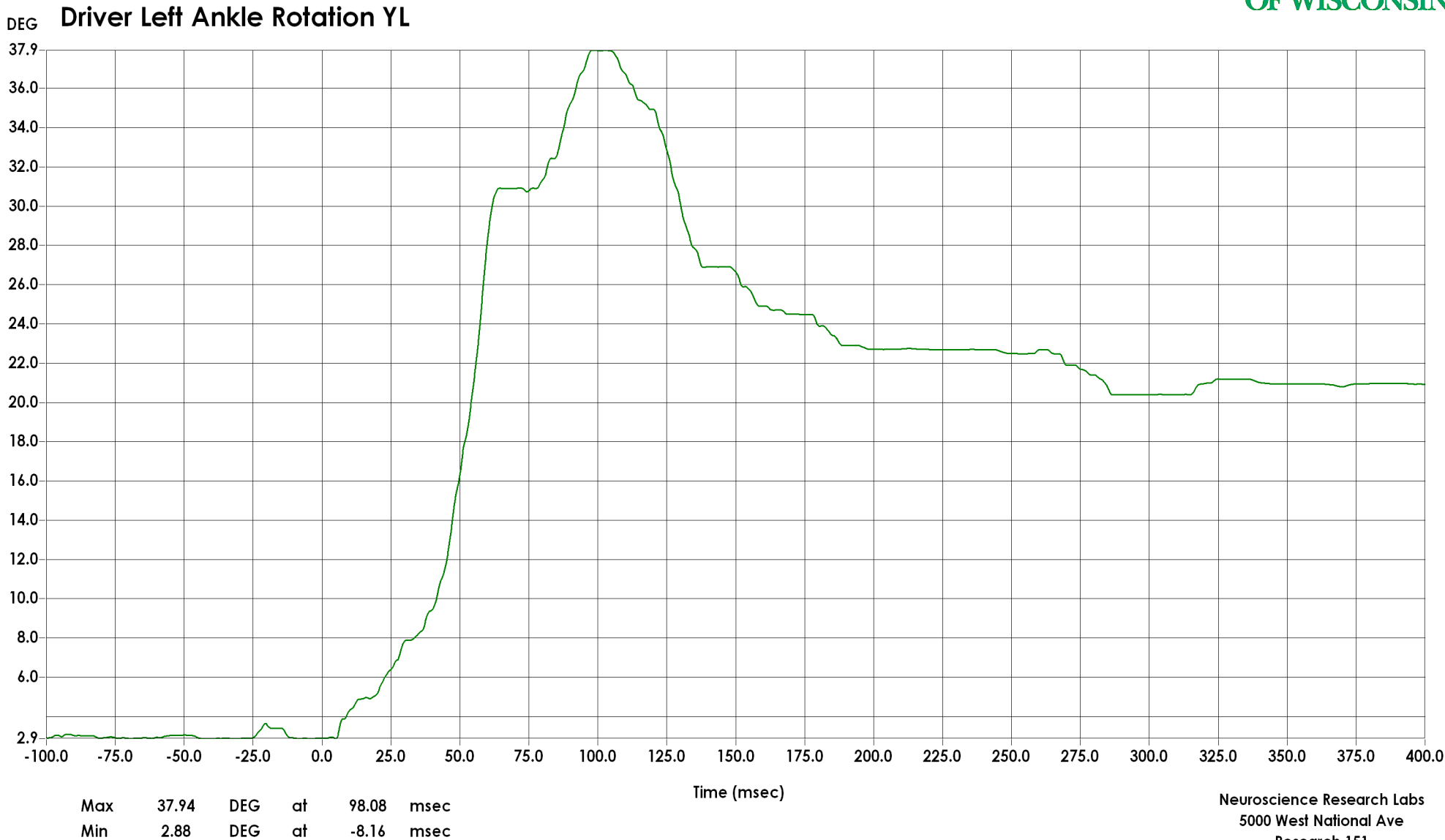
Sensor Location ANKL
Sensor Info CONTELEC PD210-4B
Serial Number ANKLX 7921-0371



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location ANKL
Sensor Info CONTELEC PD210-4B
Serial Number ANKLY 7921-0367

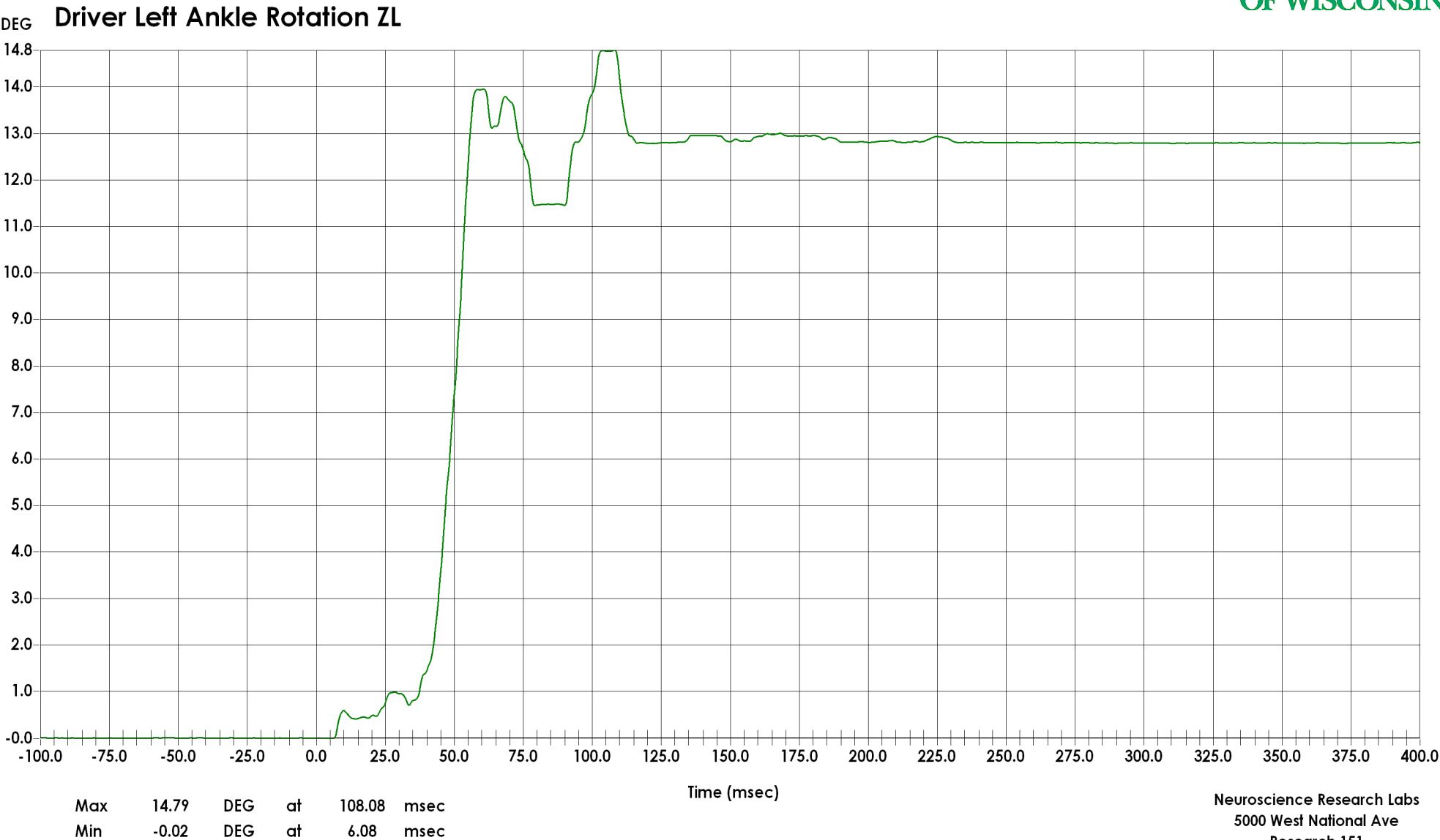


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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

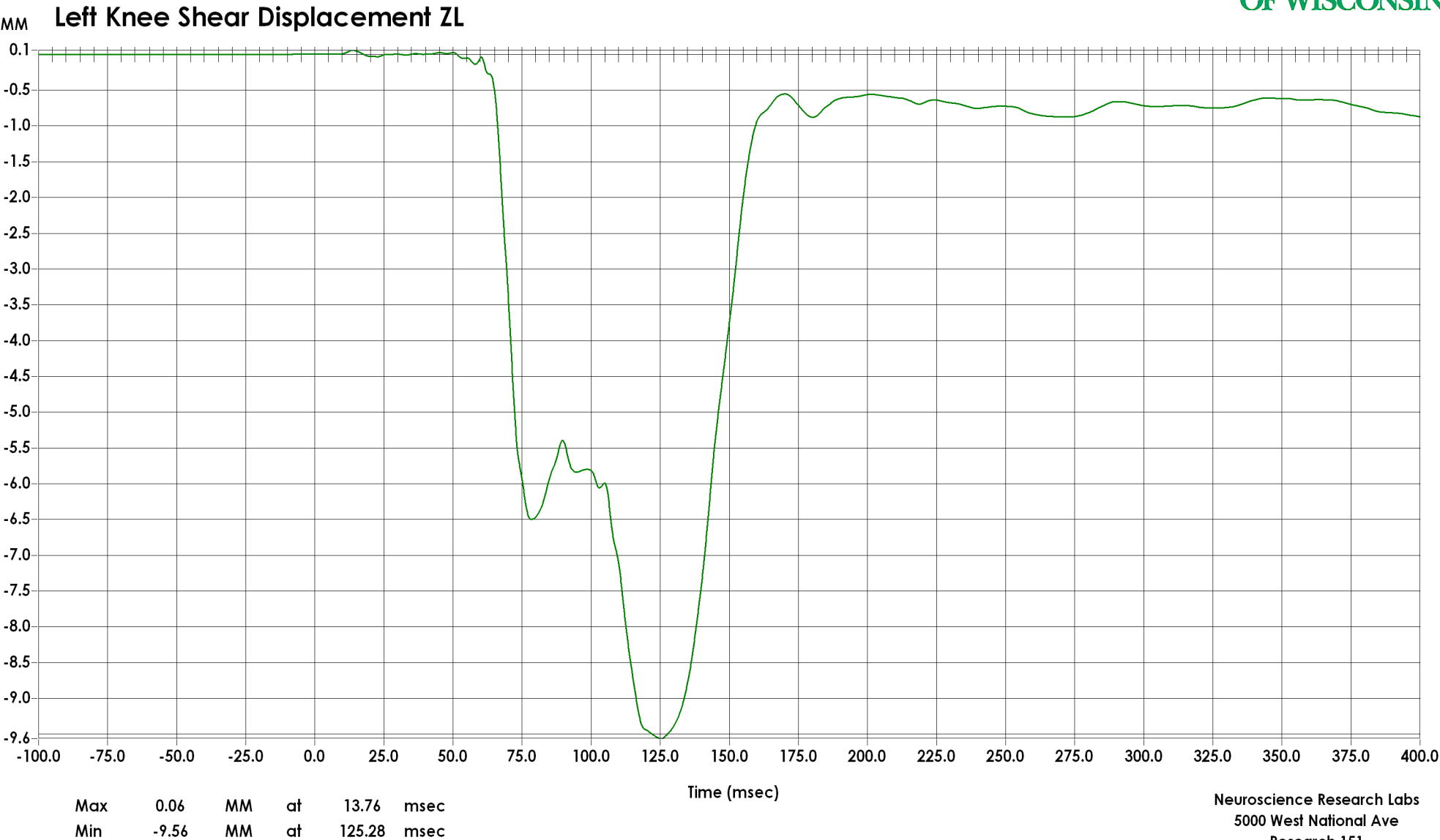
Sensor Location ANKL
Sensor Info CONTELEC PD210-4B
Serial Number ANKLZ 7921-0477



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location KNEL
Sensor Info Space Age Controls 150-0121VR
Serial Number 019662



SOI002 Plot 007

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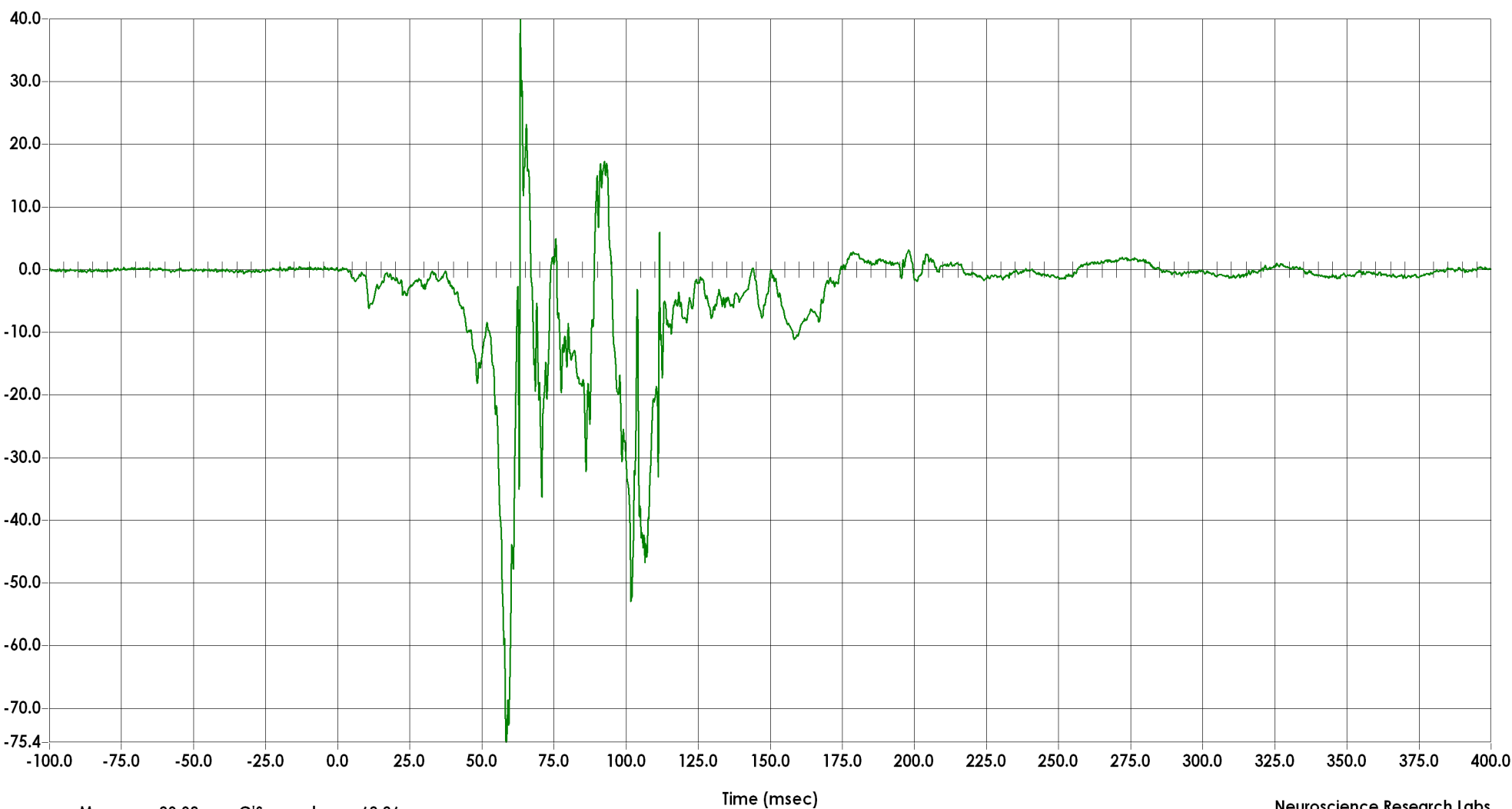
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Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TIBL
Sensor Info ENDEVCO 7264C-2KTZ-2-360
Serial Number P59119



G'S Driver Left Tibia Acceleration XL



Max 39.98 G'S at 63.36 msec
Min -75.44 G'S at 58.40 msec

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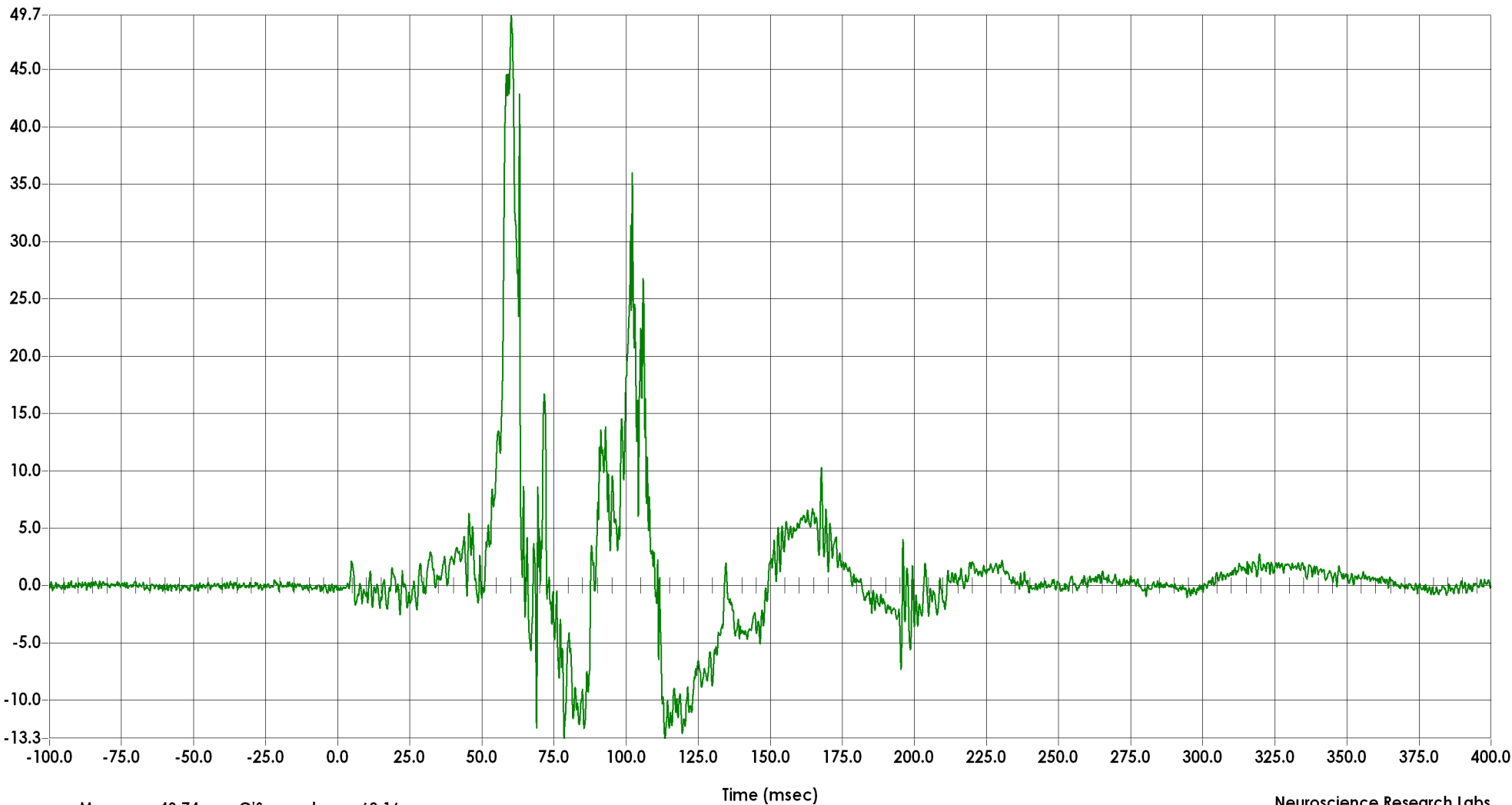
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Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TIBL
Sensor Info ENDEVCO 7264C-2KTZ-2-360
Serial Number P59122



G'S Driver Left Tibia Acceleration YL



Max 49.74 G'S at 60.16 msec
Min -13.34 G'S at 113.52 msec

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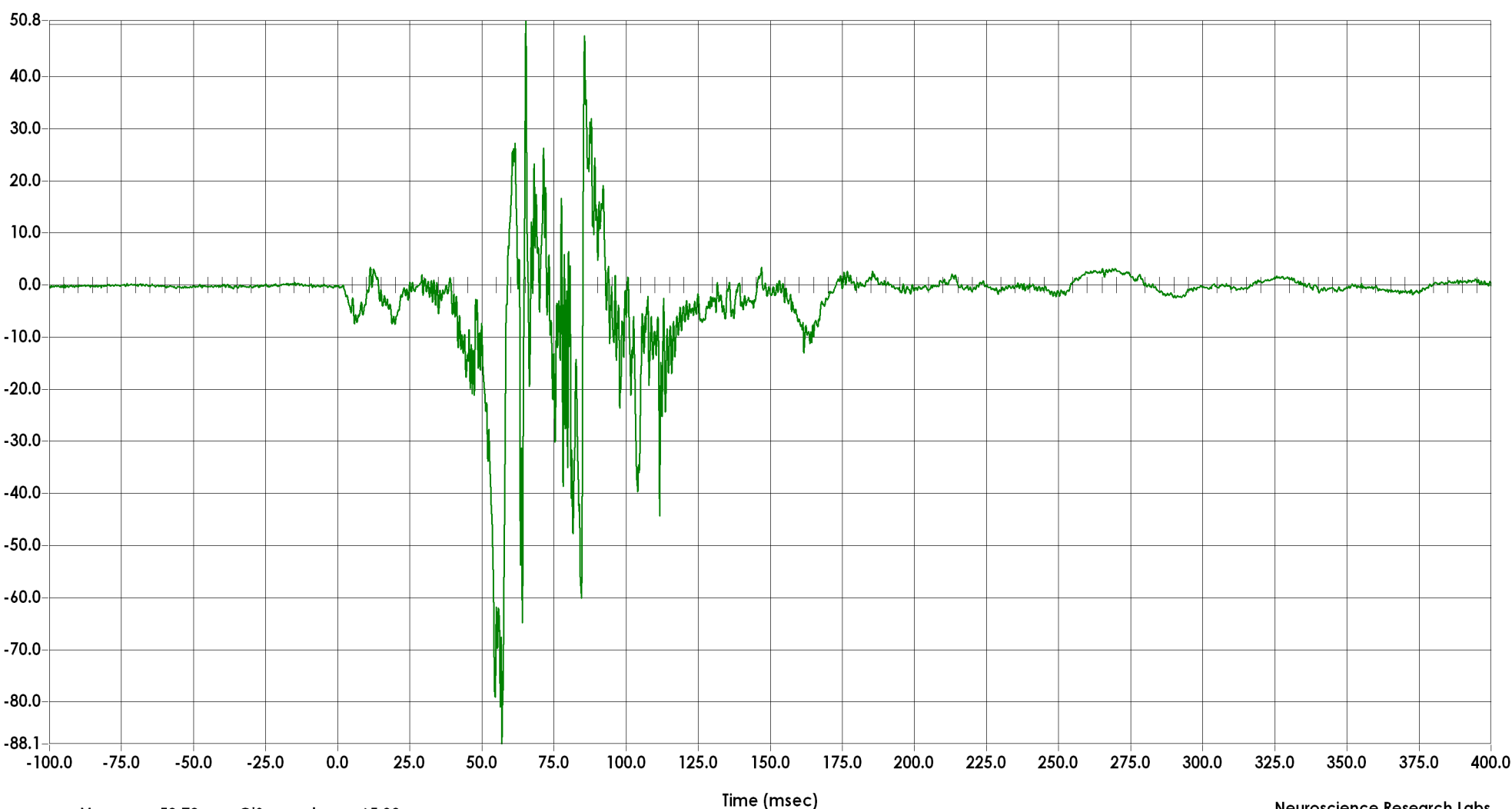
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Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FOTL
Sensor Info ENDEVCO 7264-2000
Serial Number J44018



G'S Driver Left Foot Acceleration XL



Max 50.78 G'S at 65.20 msec
Min -88.10 G'S at 56.96 msec

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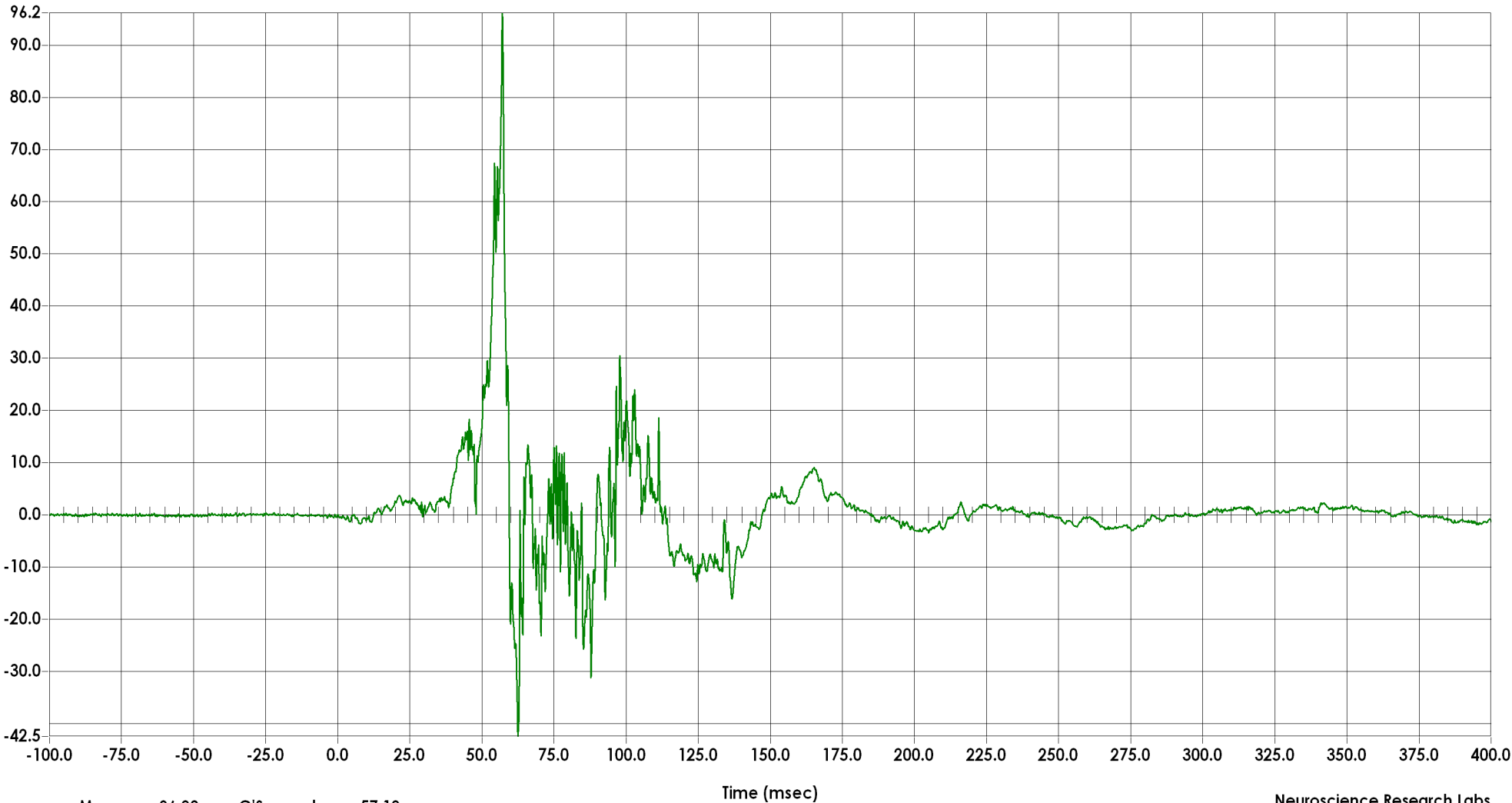
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FOTL
Sensor Info ENDEVCO 7264B-2000T
Serial Number B13098



G'S Driver Left Foot Acceleration YL



Max 96.20 G'S at 57.12 msec
Min -42.48 G'S at 62.48 msec

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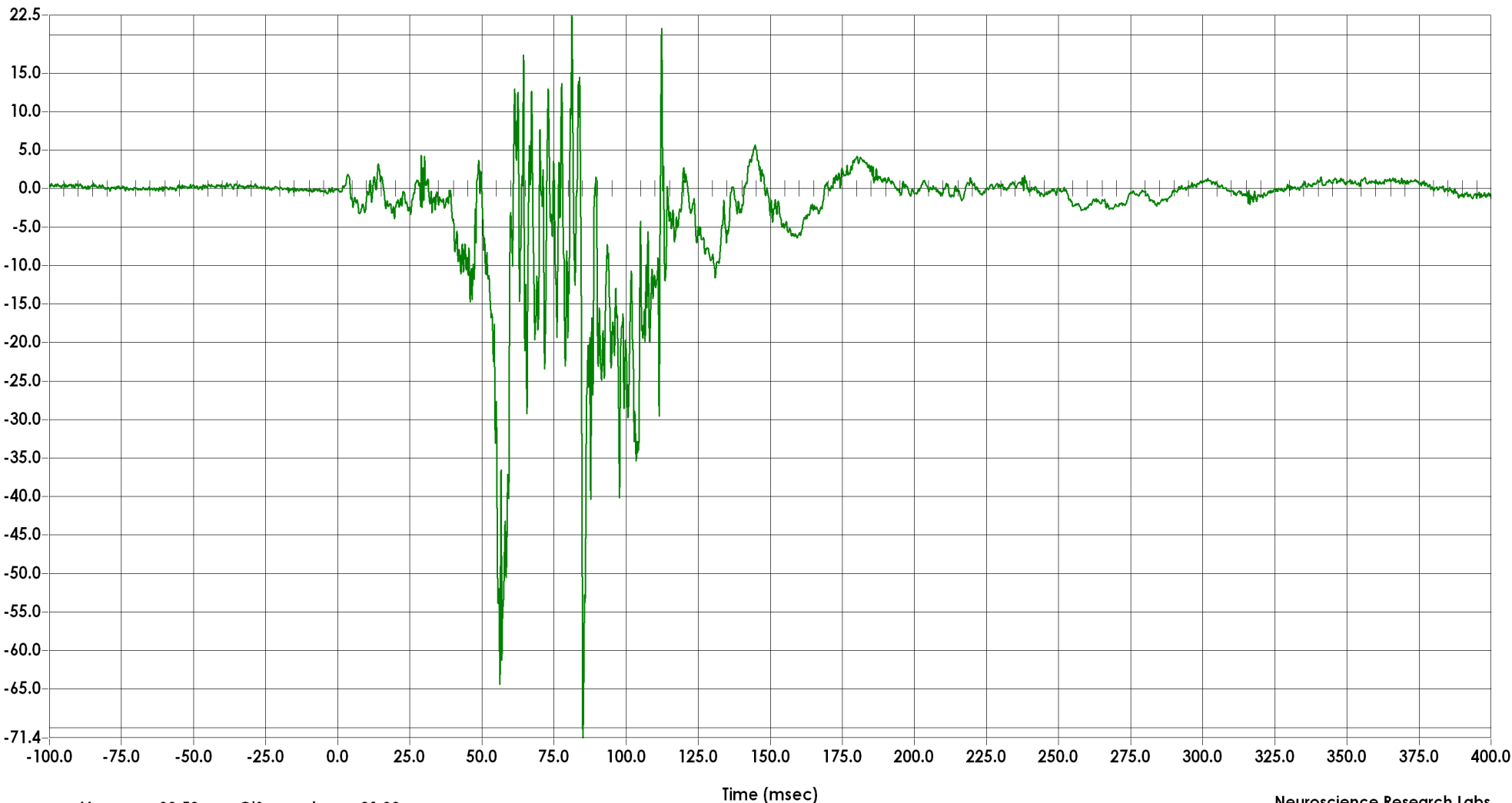
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Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FOTL
Sensor Info ENDEVCO 7264C-2KTZ-2-180
Serial Number P13836



G'S Driver Left Foot Acceleration ZL



Max 22.53 G'S at 81.20 msec
Min -71.37 G'S at 85.04 msec

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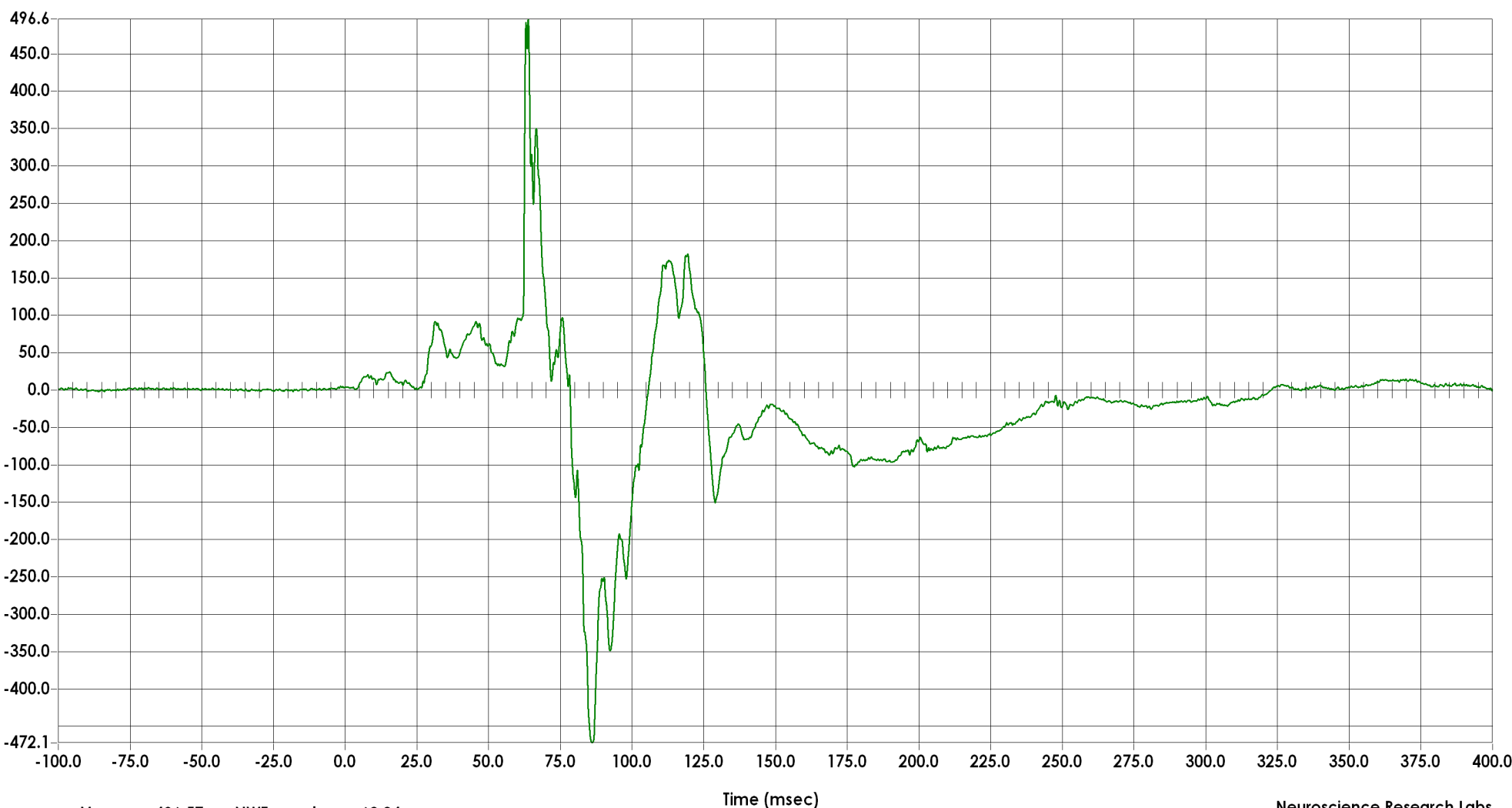
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRU
Sensor Info Denton 4509J
Serial Number 4509J_111_FX



NWT Driver Right Upper Tibia Force XL



Max 496.57 NWT at 63.84 msec
Min -472.15 NWT at 86.24 msec

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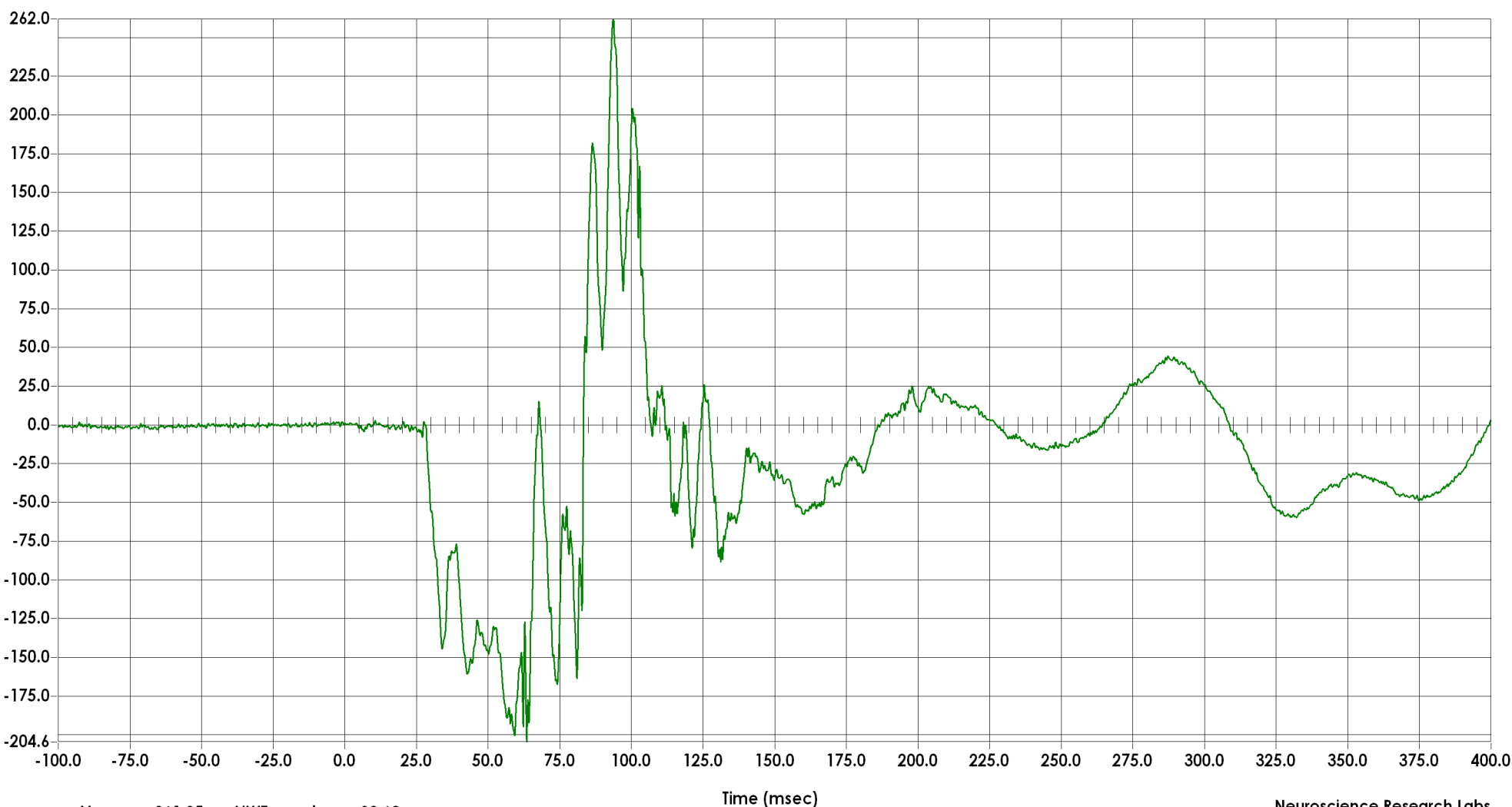
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRU
Sensor Info Denton 4509J
Serial Number 4509J_111_FY



NWT Driver Right Upper Tibia Force YL



Max 261.95 NWT at 93.68 msec
Min -204.61 NWT at 63.44 msec

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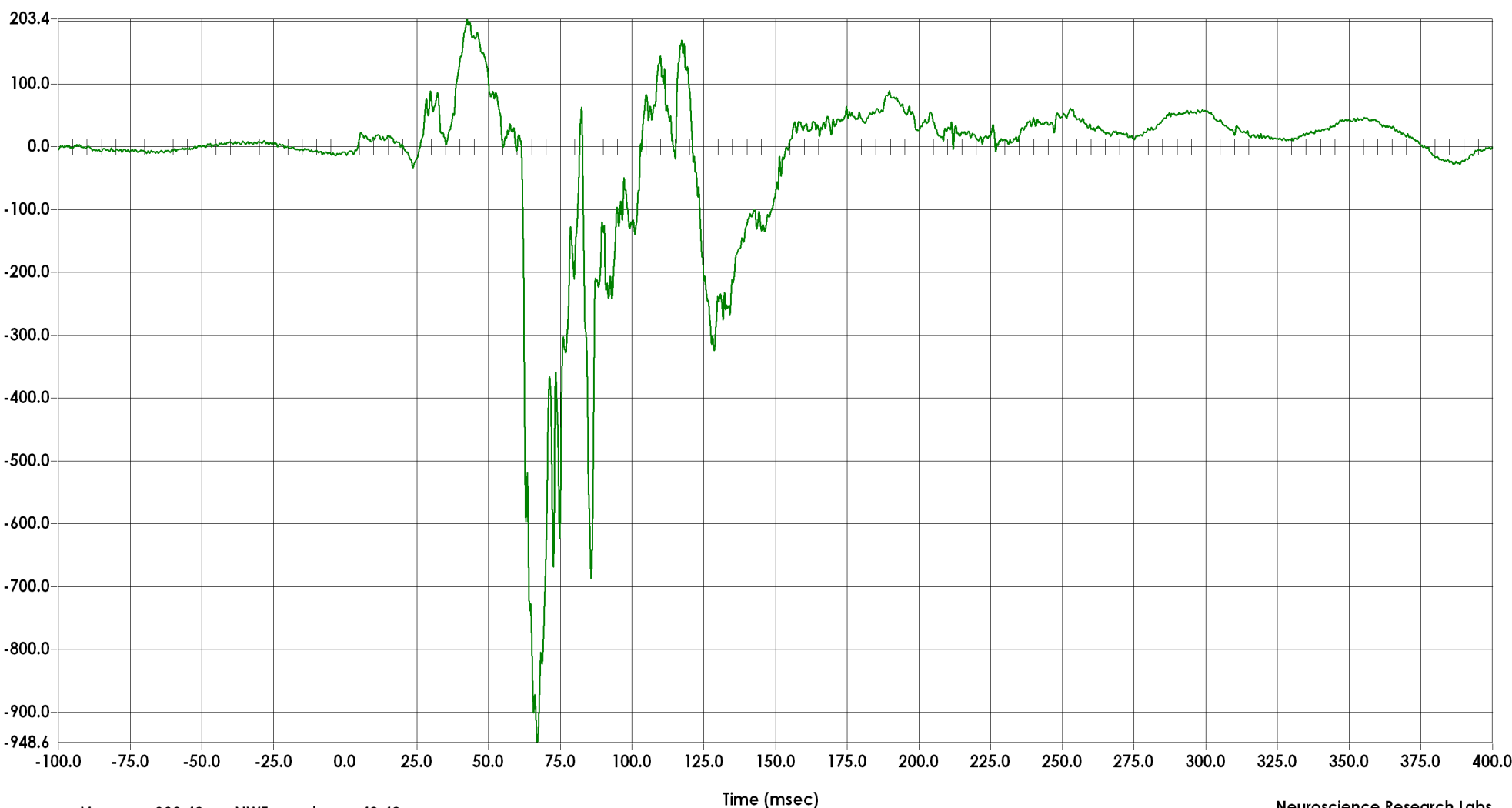
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRU
Sensor Info Denton 4509J
Serial Number 4509J_111_FZ



NWT Driver Right Upper Tibia Force ZL



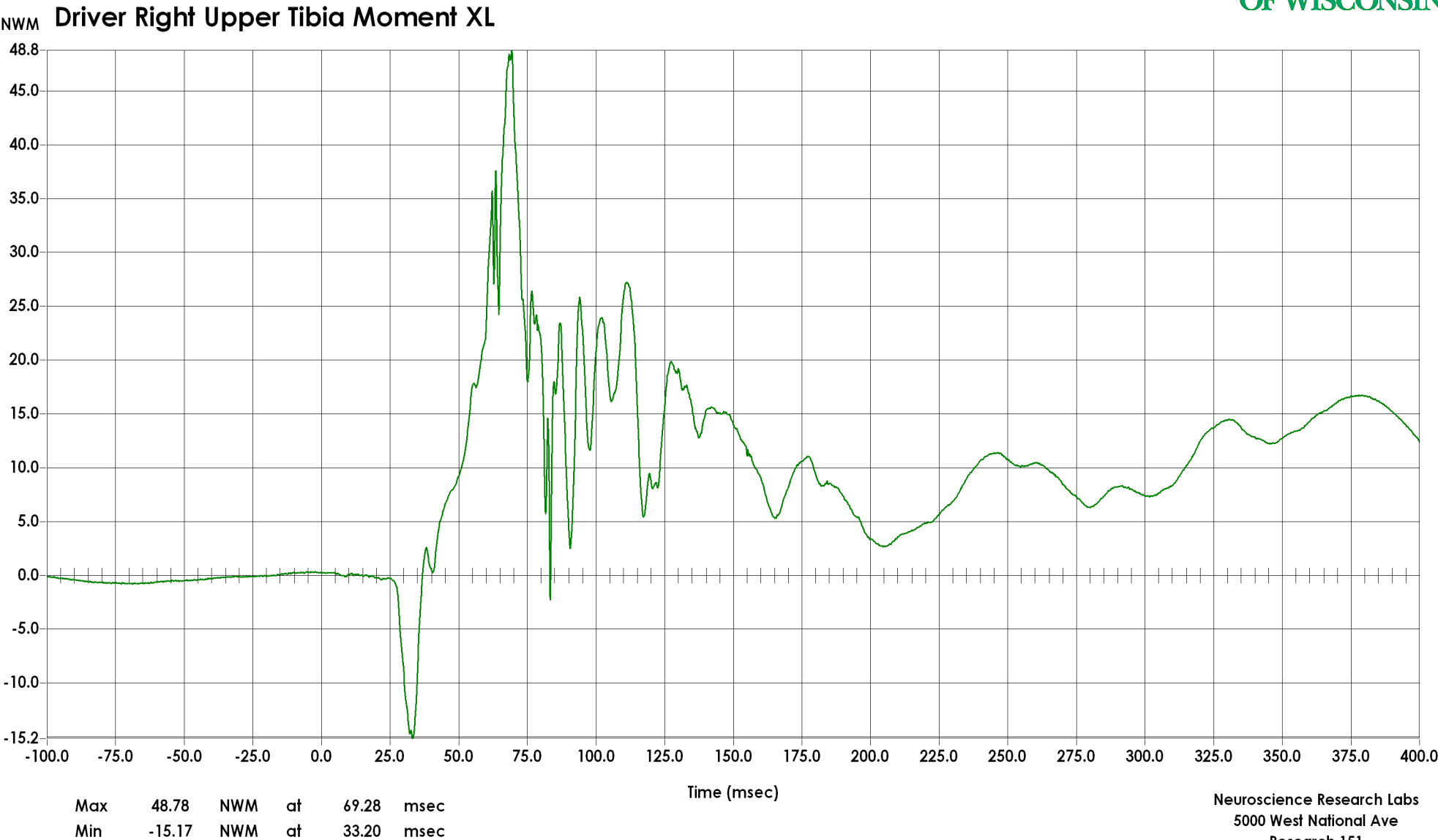
Max 203.43 NWT at 42.48 msec
Min -948.64 NWT at 66.88 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRU
Sensor Info Denton 4509J
Serial Number 4509J_111_MX



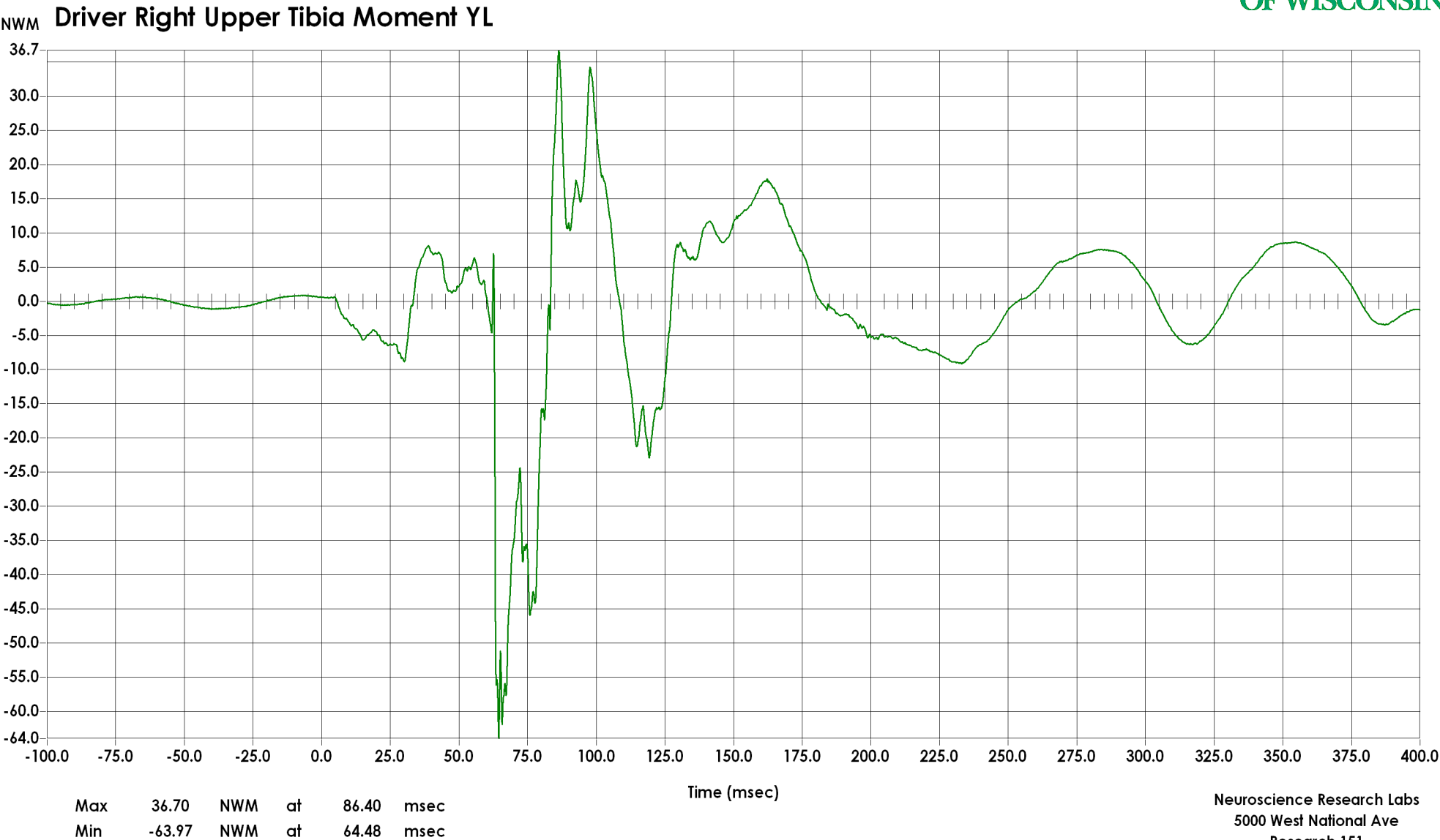
SOI002 Plot 016

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRU
Sensor Info Denton 4509J
Serial Number 4509J_111_MY



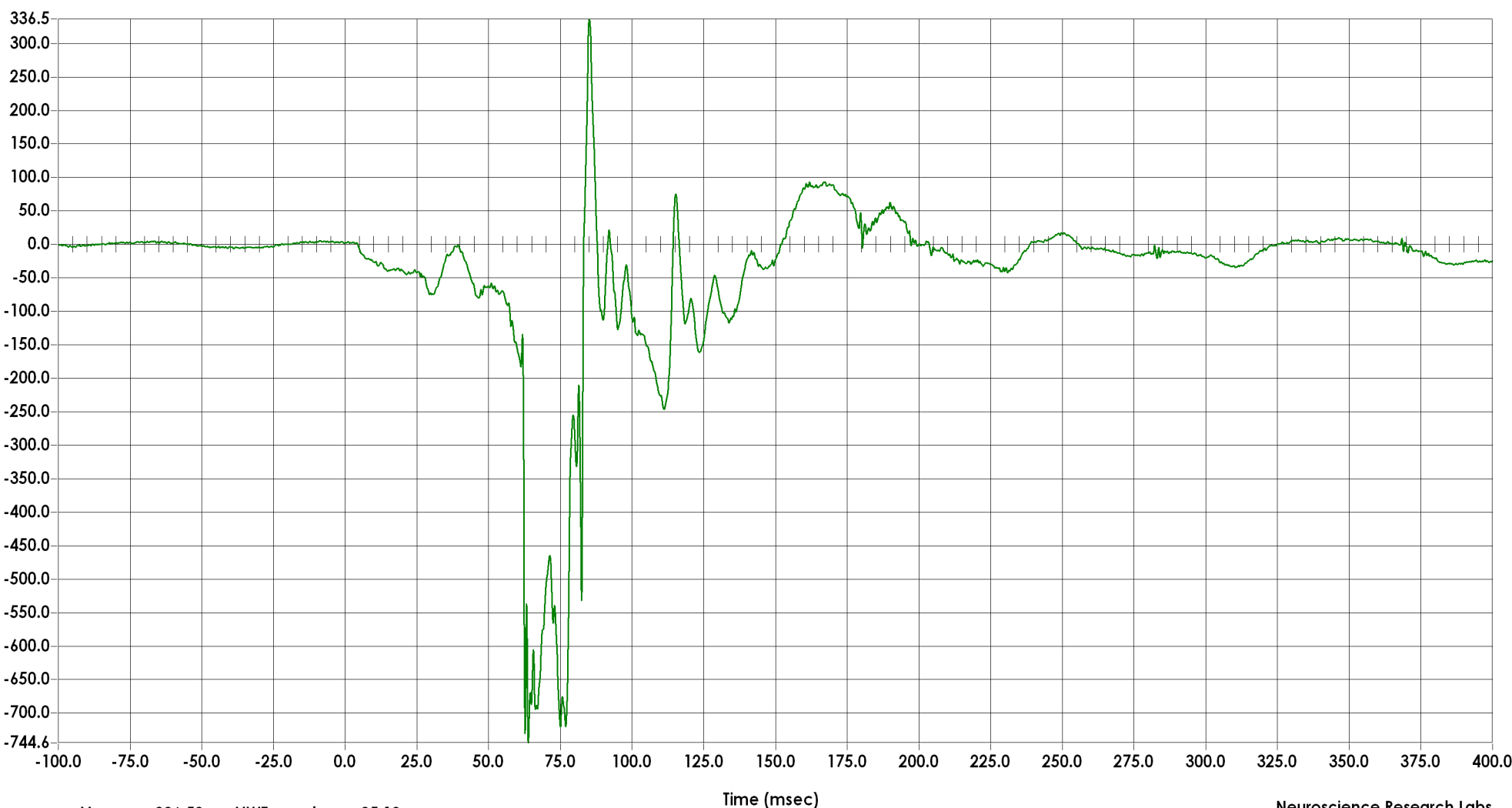
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRL
Sensor Info Denton 4929J
Serial Number 4929J_142_FX



NWT Driver Right Lower Tibia Force XL



Max 336.53 NWT at 85.12 msec
Min -744.61 NWT at 63.84 msec

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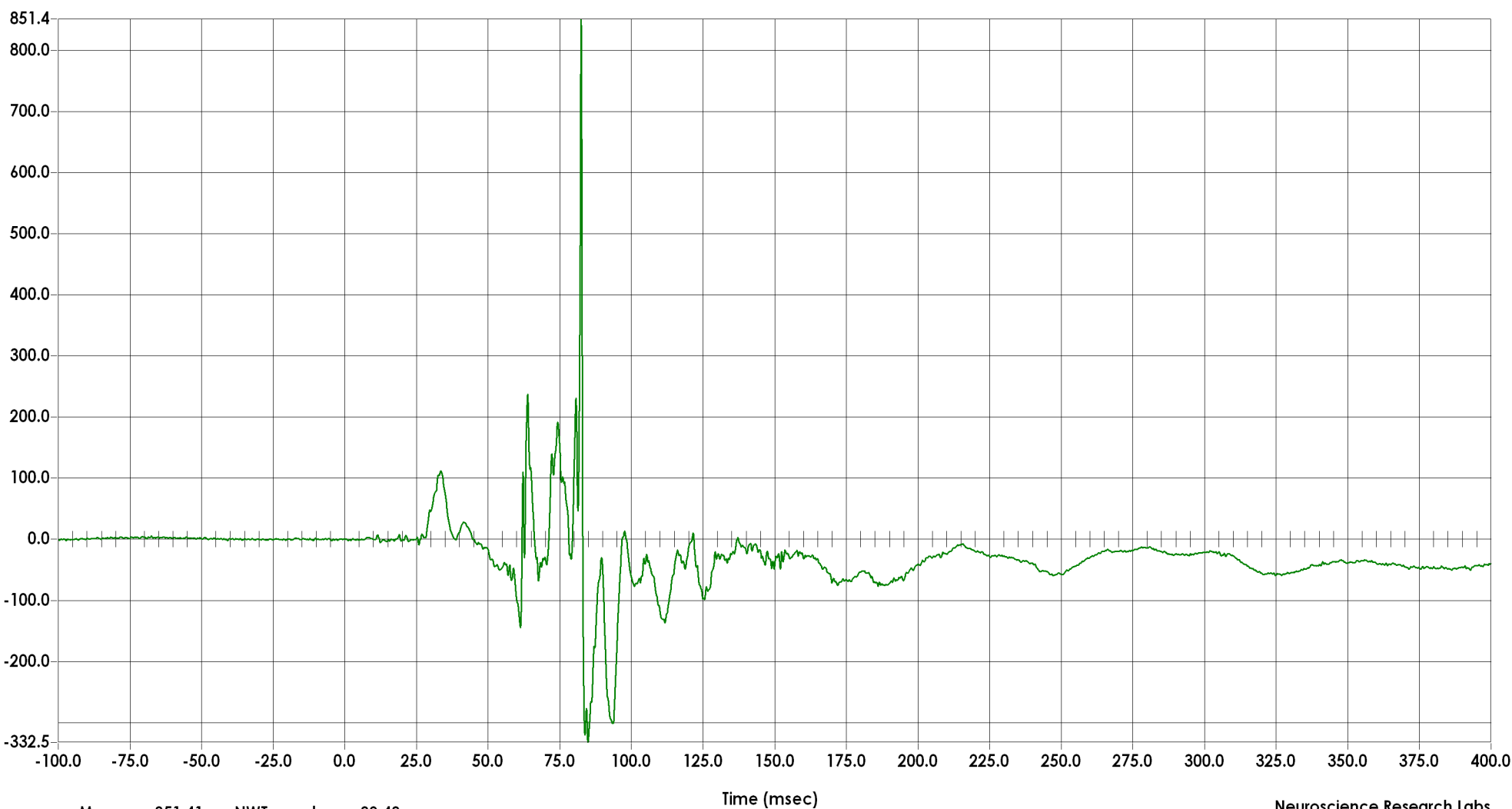
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRL
Sensor Info Denton 4929J
Serial Number 4929J_142_FY



NWT Driver Right Lower Tibia Force YL



Max 851.41 NWT at 82.48 msec
Min -332.50 NWT at 84.88 msec

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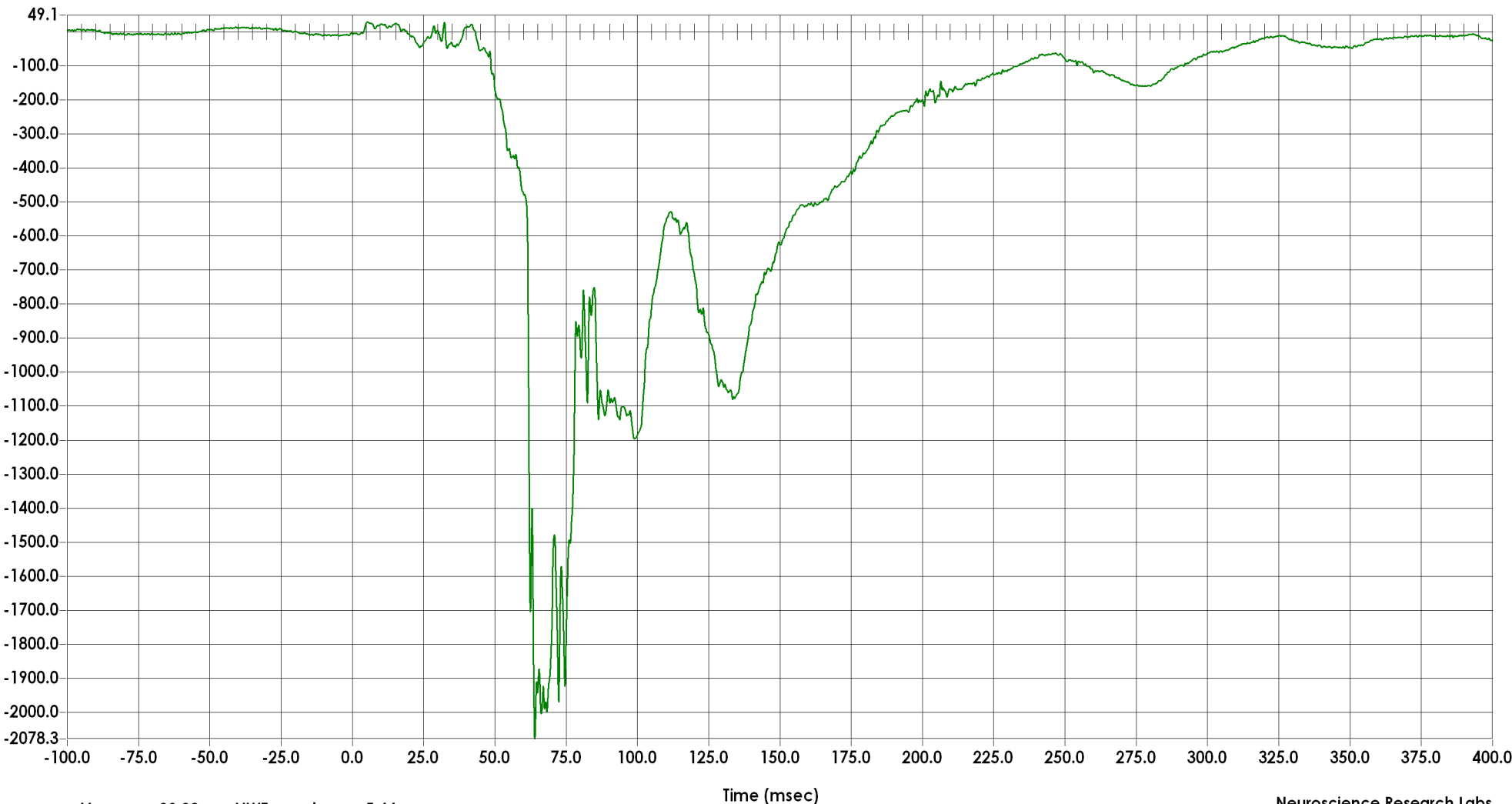
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRL
Sensor Info Denton 4929J
Serial Number 4929J_142_FZ



NWT Driver Right Lower Tibia Force ZL



Max 29.28 NWT at 5.44 msec
Min -2078.33 NWT at 64.00 msec

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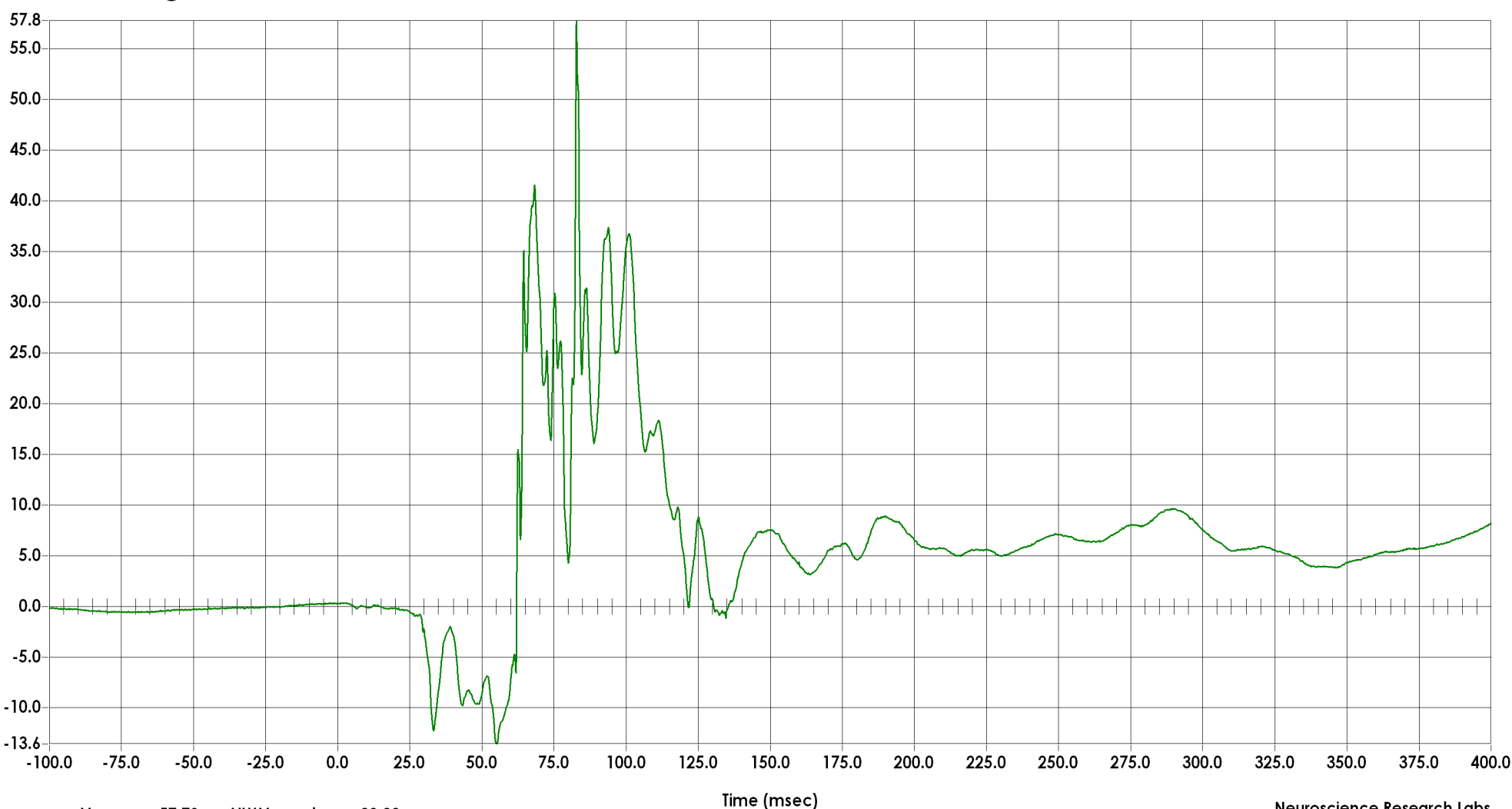
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRL
Sensor Info Denton 4929J
Serial Number 4929J_142_MX



NWM Driver Right Lower Tibia Moment XL



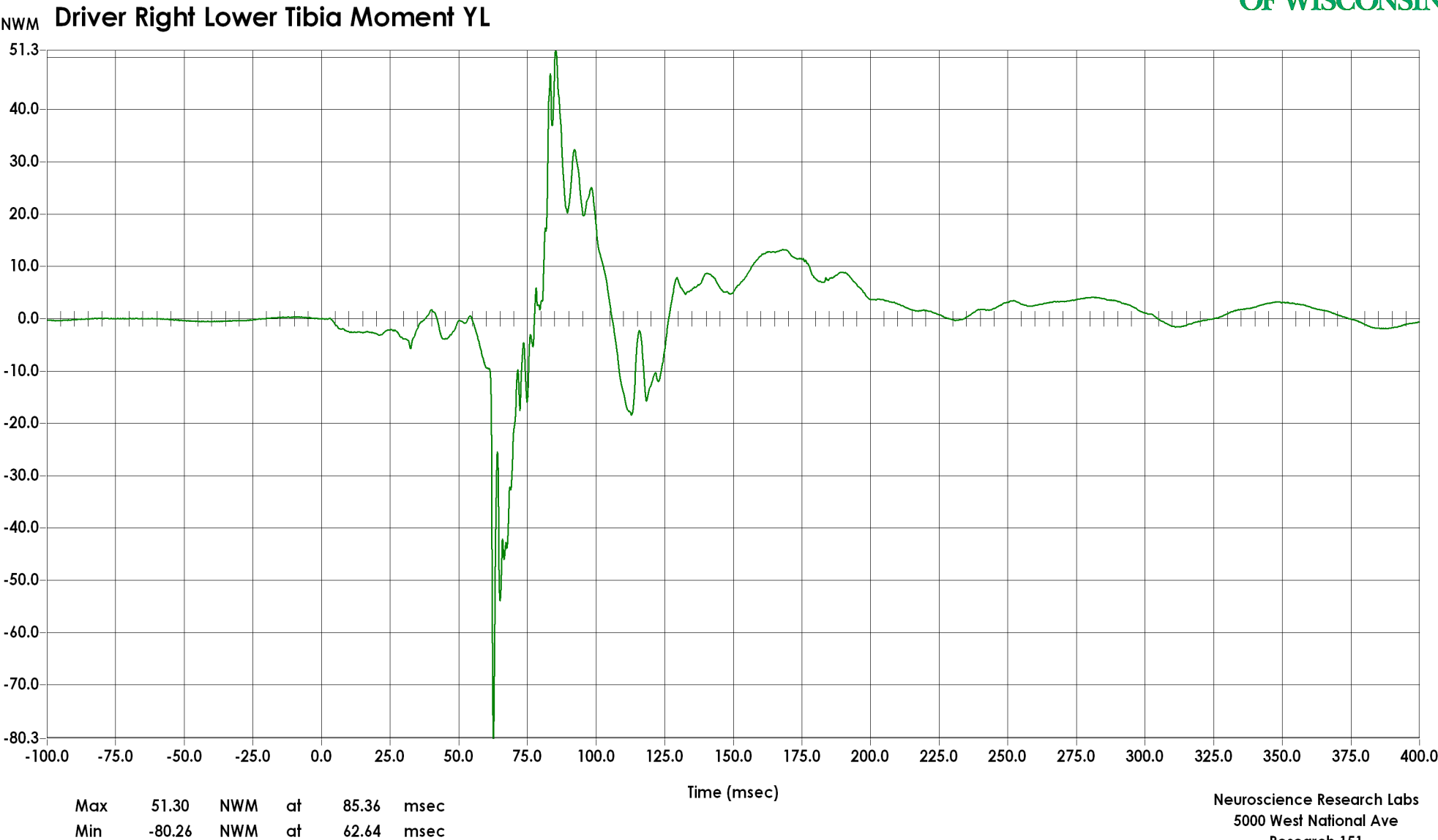
Max 57.79 NWM at 82.80 msec
Min -13.57 NWM at 55.12 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBRL
Sensor Info Denton 4929J
Serial Number 4929J_142_MY

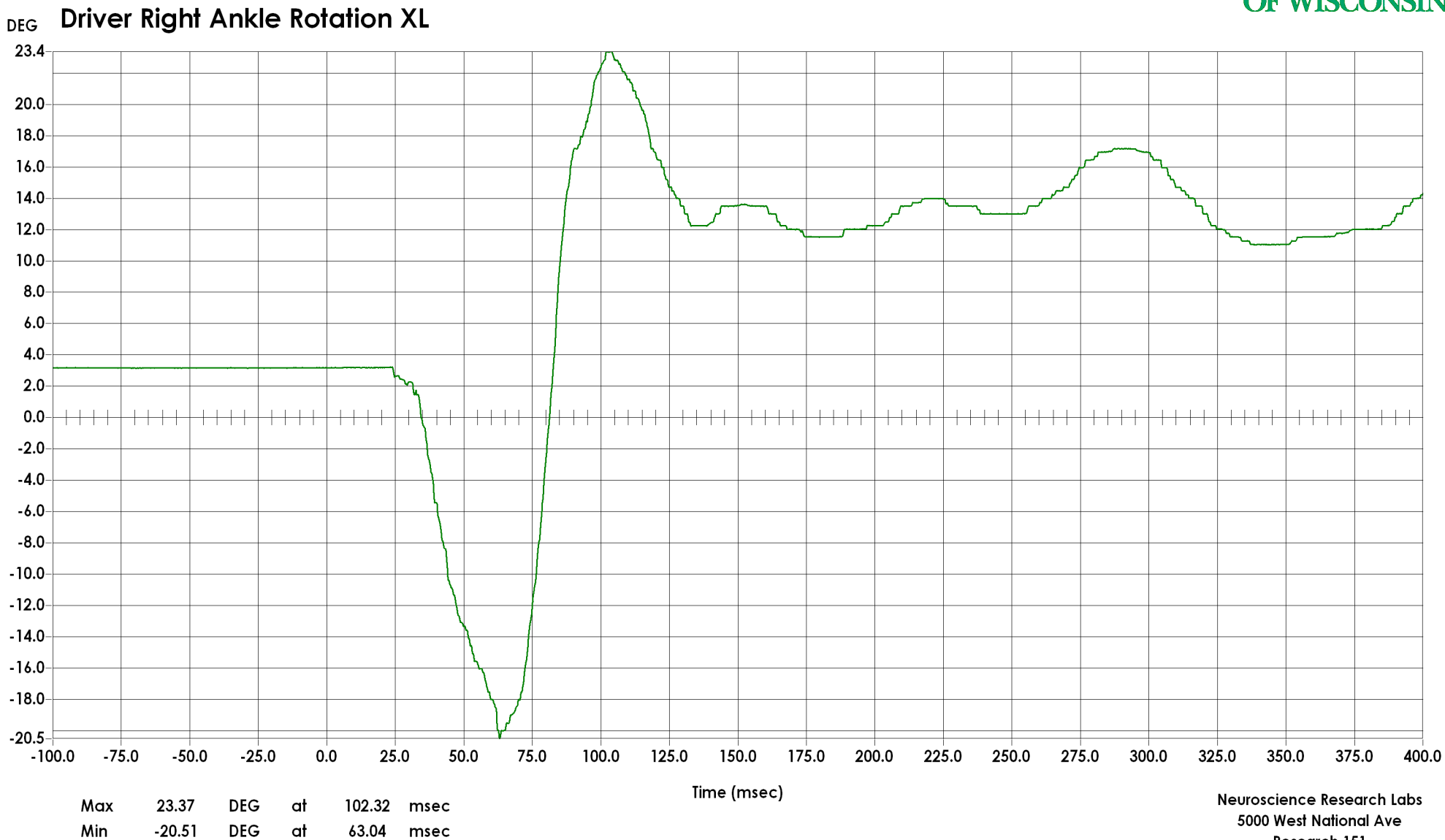


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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

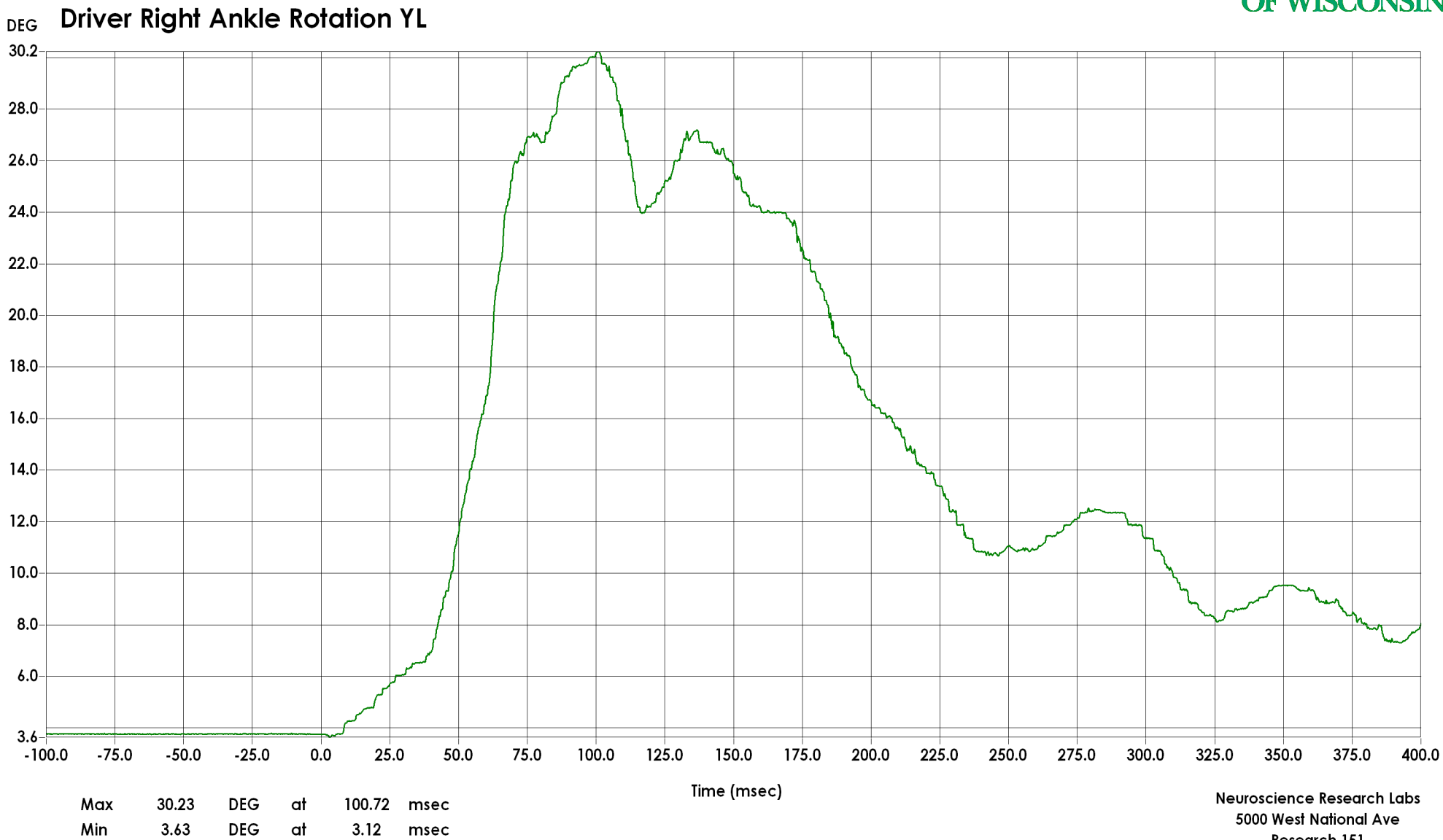
Sensor Location ANKR
Sensor Info CONTELEC PD210-4B
Serial Number ANKRX 7921-0368



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

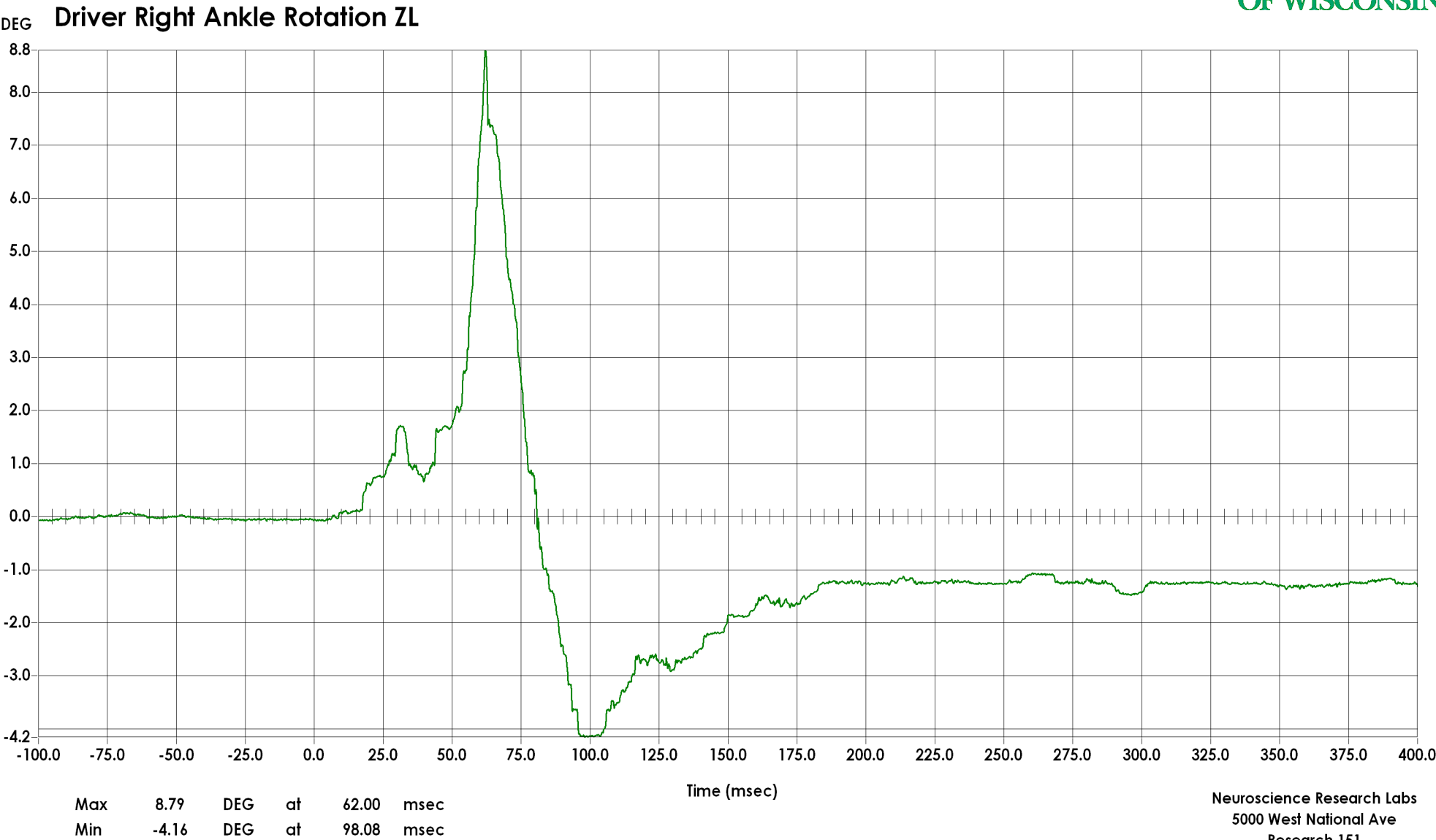
Sensor Location ANKR
Sensor Info CONTELEC PD210-4B
Serial Number ANKRY 7921-0369



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location ANKR
Sensor Info CONTELEC PD210-4B
Serial Number ANKRZ 7921-0370



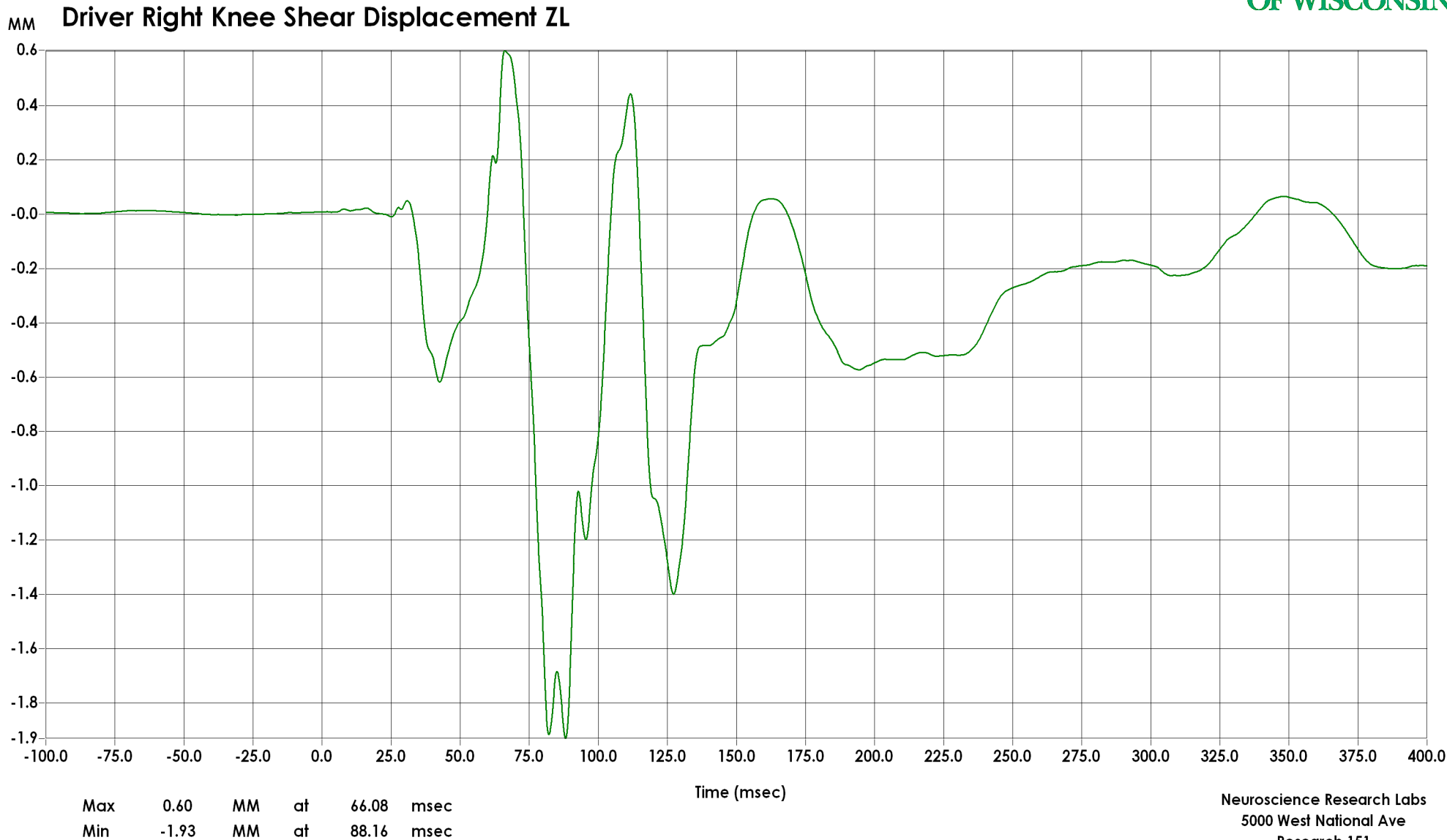
SOI002 Plot 025

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location KNER
Sensor Info Space Age Controls 150-0121VL
Serial Number 028868



Max 0.60 MM at 66.08 msec
Min -1.93 MM at 88.16 msec

SOI002 Plot 026

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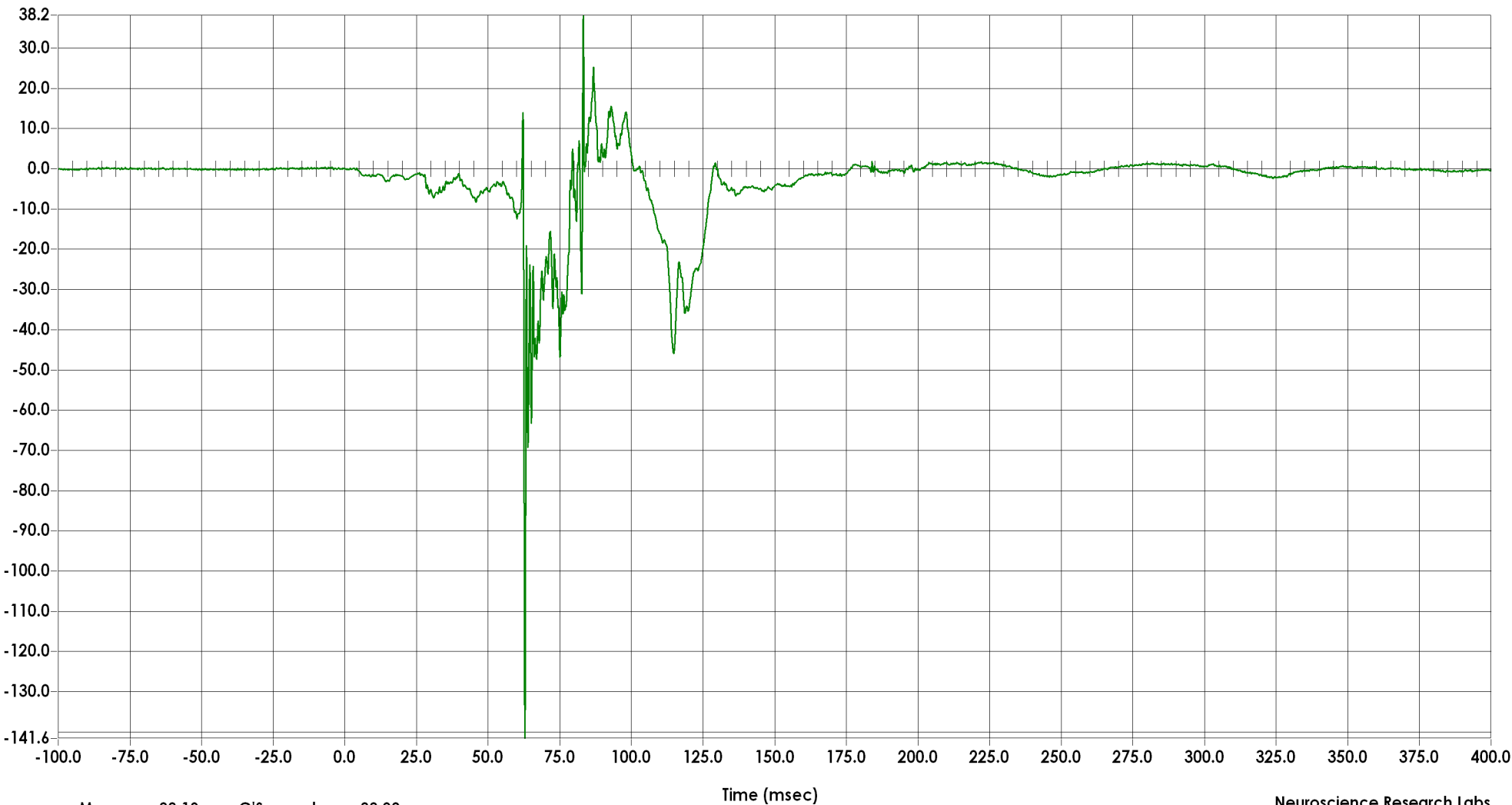
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TIBR
Sensor Info ENTRAN EGE-73BE0-2000F
Serial Number 95L95L13-B02



G'S Driver Right Tibia Acceleration XL



Max 38.19 G'S at 83.20 msec
Min -141.61 G'S at 62.88 msec

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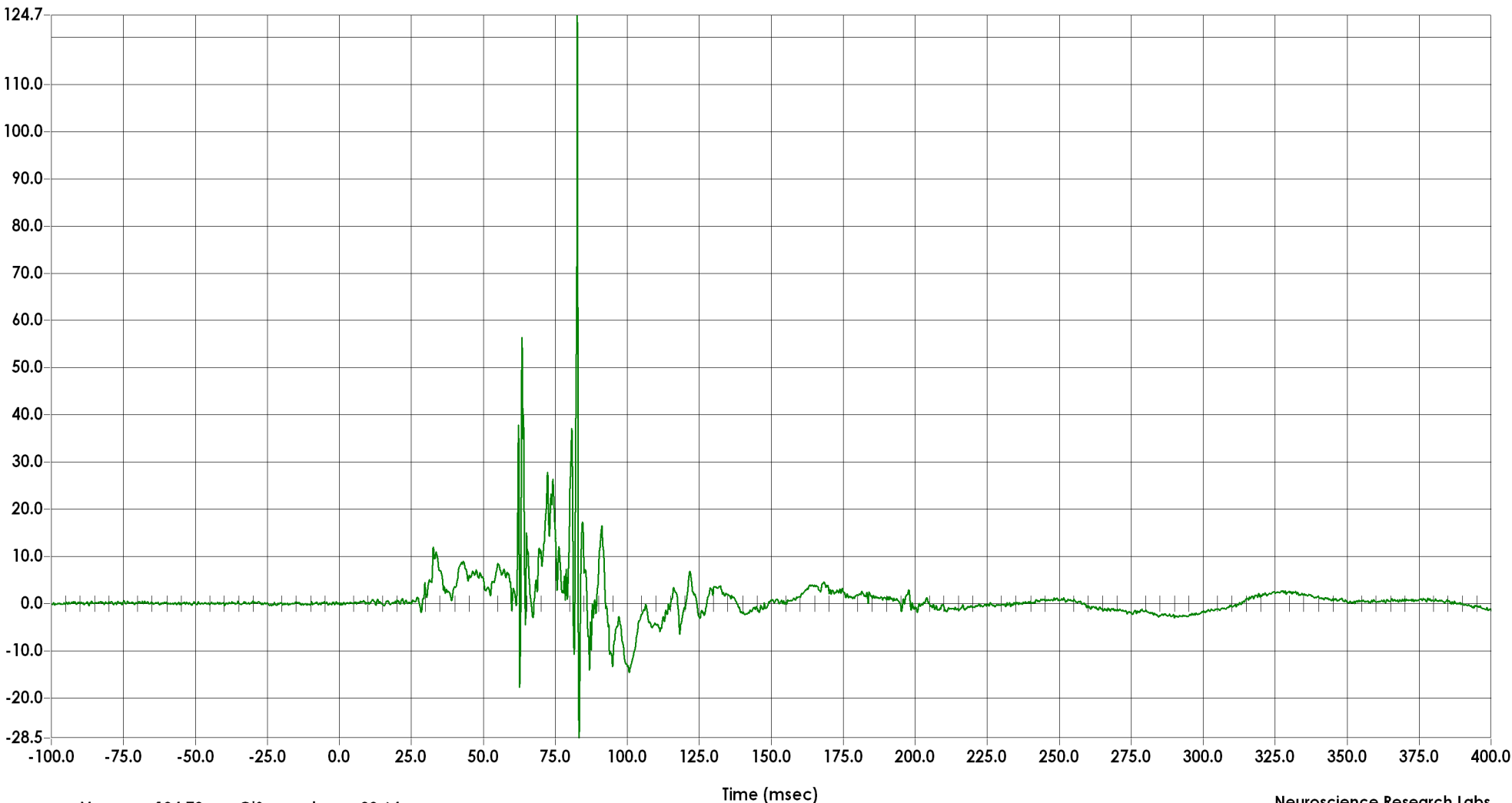
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TIBR
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011319



G'S Driver Right Tibia Acceleration YL



Max 124.70 G's at 82.64 msec
Min -28.49 G's at 83.28 msec

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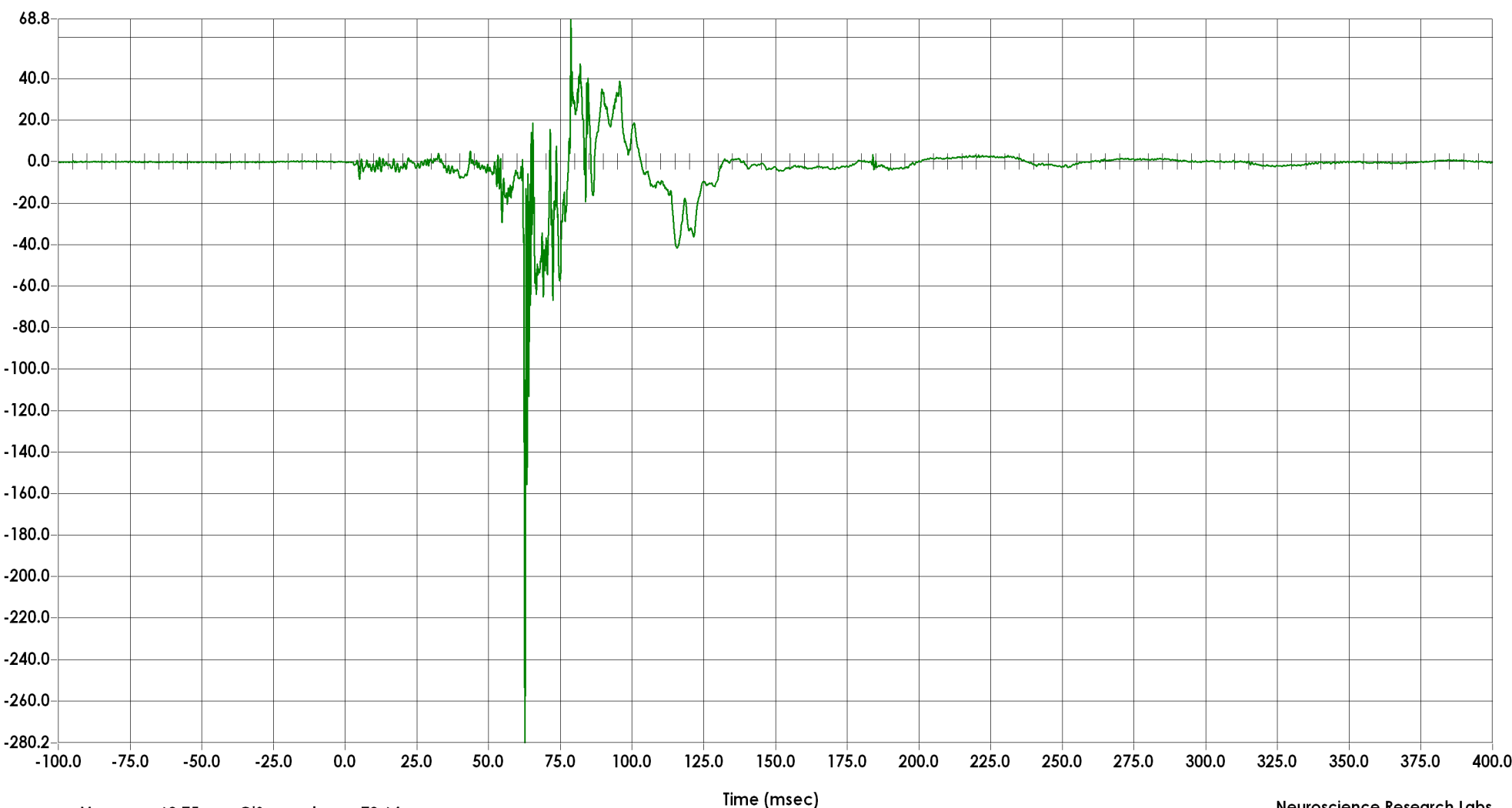
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FOTR
Sensor Info ENDEVCO 7264B-2000T
Serial Number B12808



G'S Driver Right Foot Acceleration XL



Max 68.75 G'S at 78.64 msec
Min -280.24 G'S at 62.72 msec

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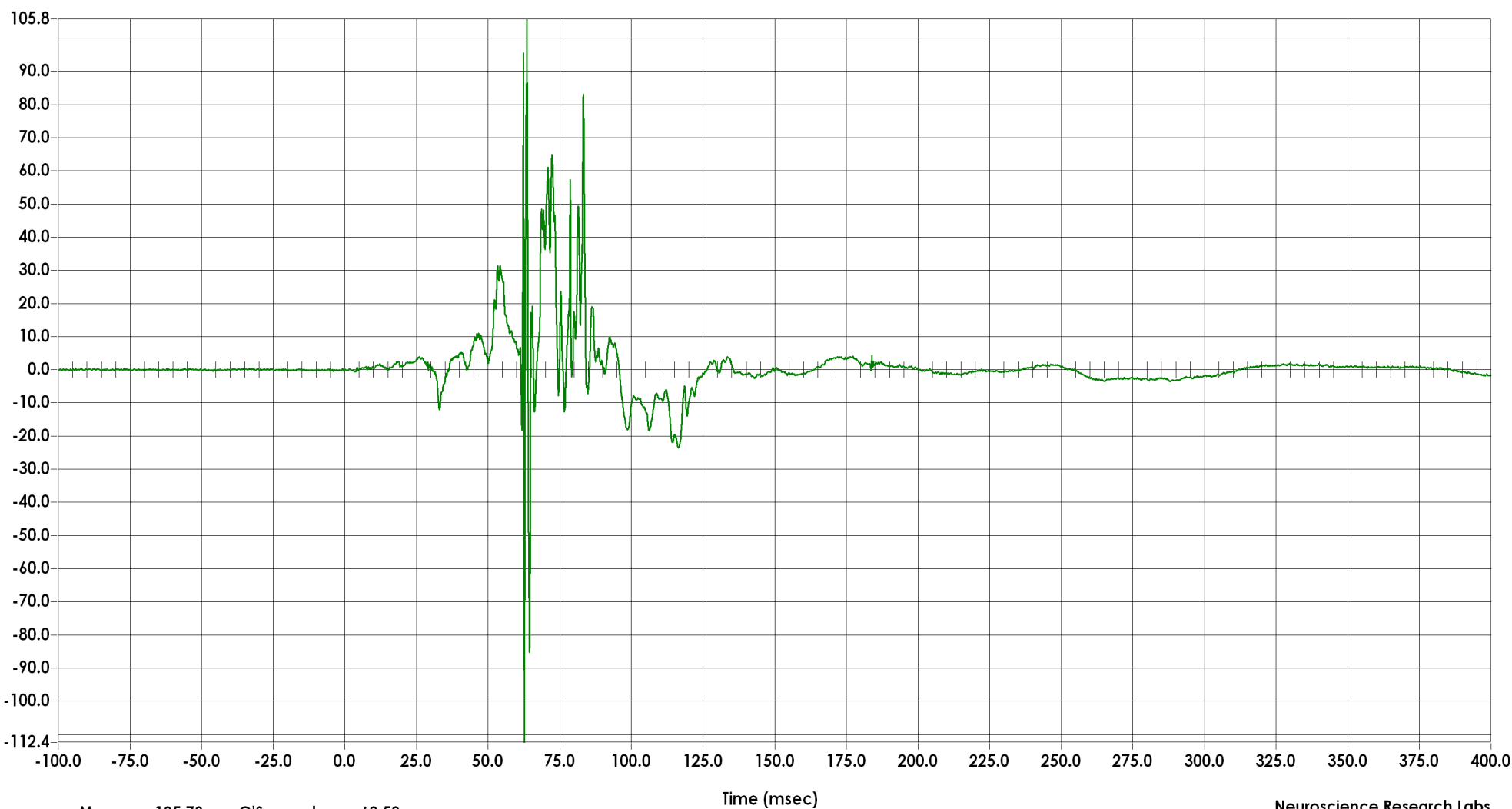
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FOTR
Sensor Info ENDEVCO 7264-2000
Serial Number J44022



G'S Driver Right Foot Acceleration YL



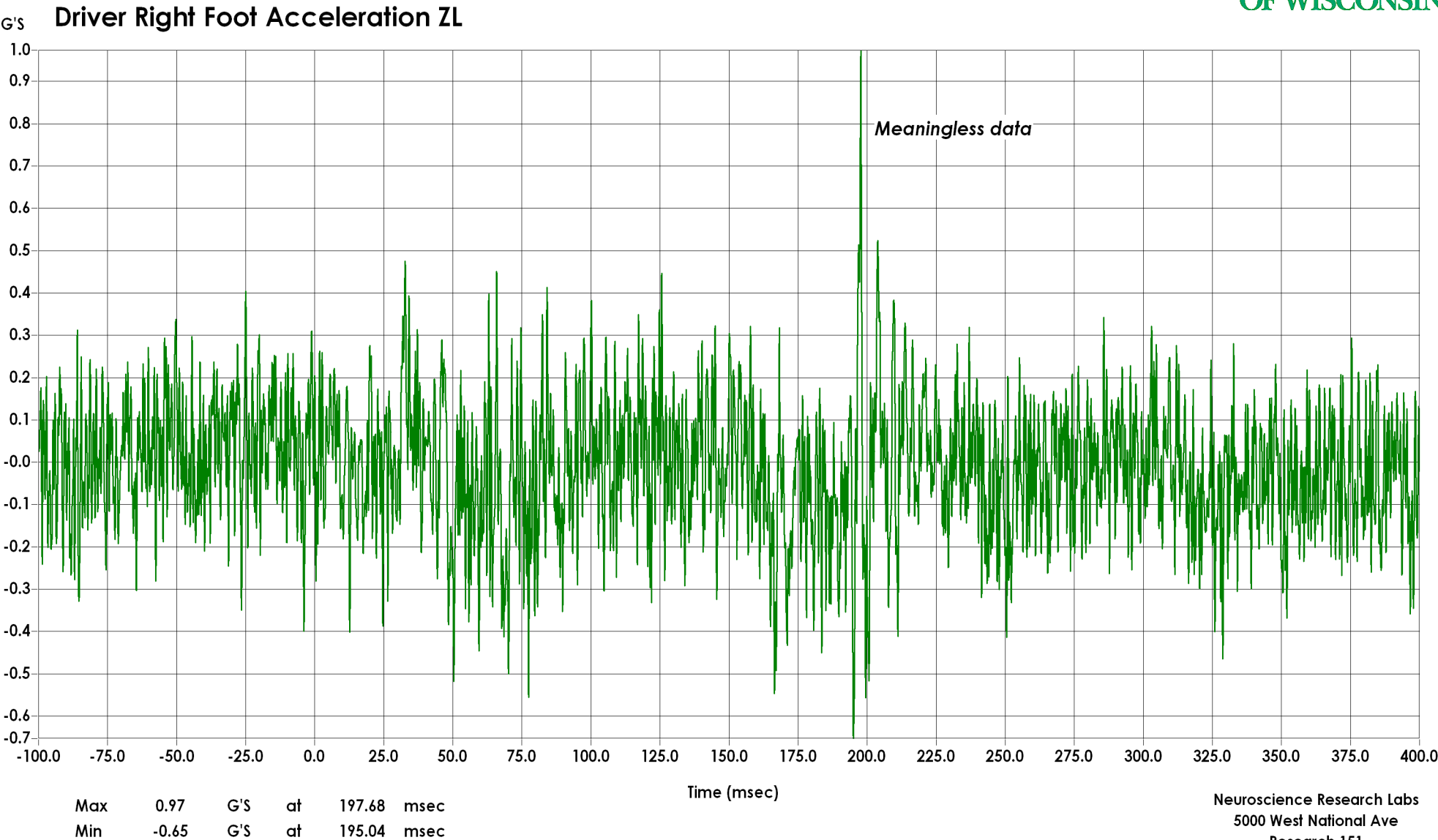
Max 105.79 G'S at 63.52 msec
Min -112.43 G'S at 62.64 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FOTR
Sensor Info ENDEVCO 7264C-2KTZ-2-240
Serial Number P21673



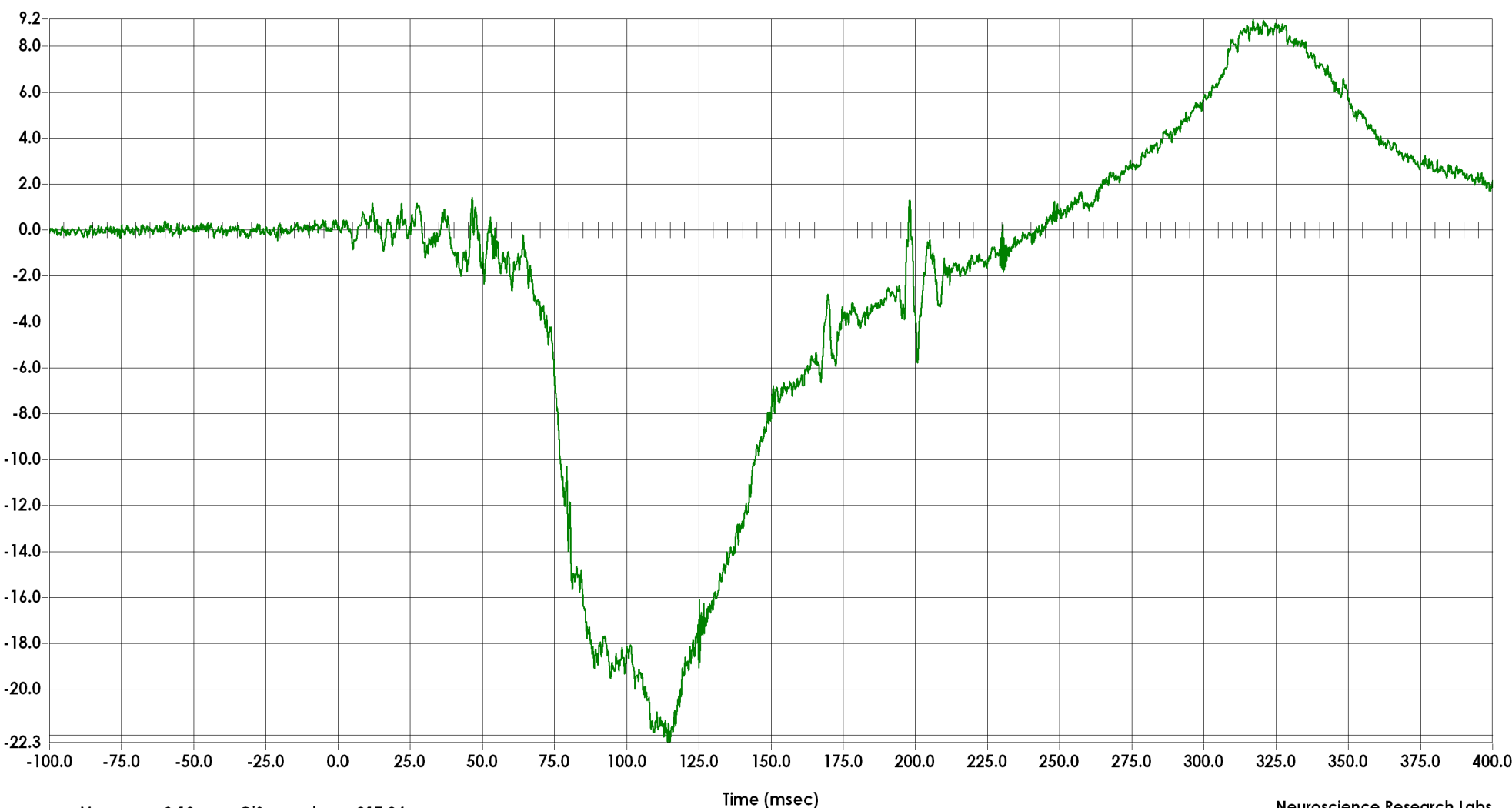
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12132



G'S Driver Head CG Acceleration XL



Max 9.19 G's at 317.04 msec
Min -22.34 G's at 114.16 msec

SOI002 Plot 032

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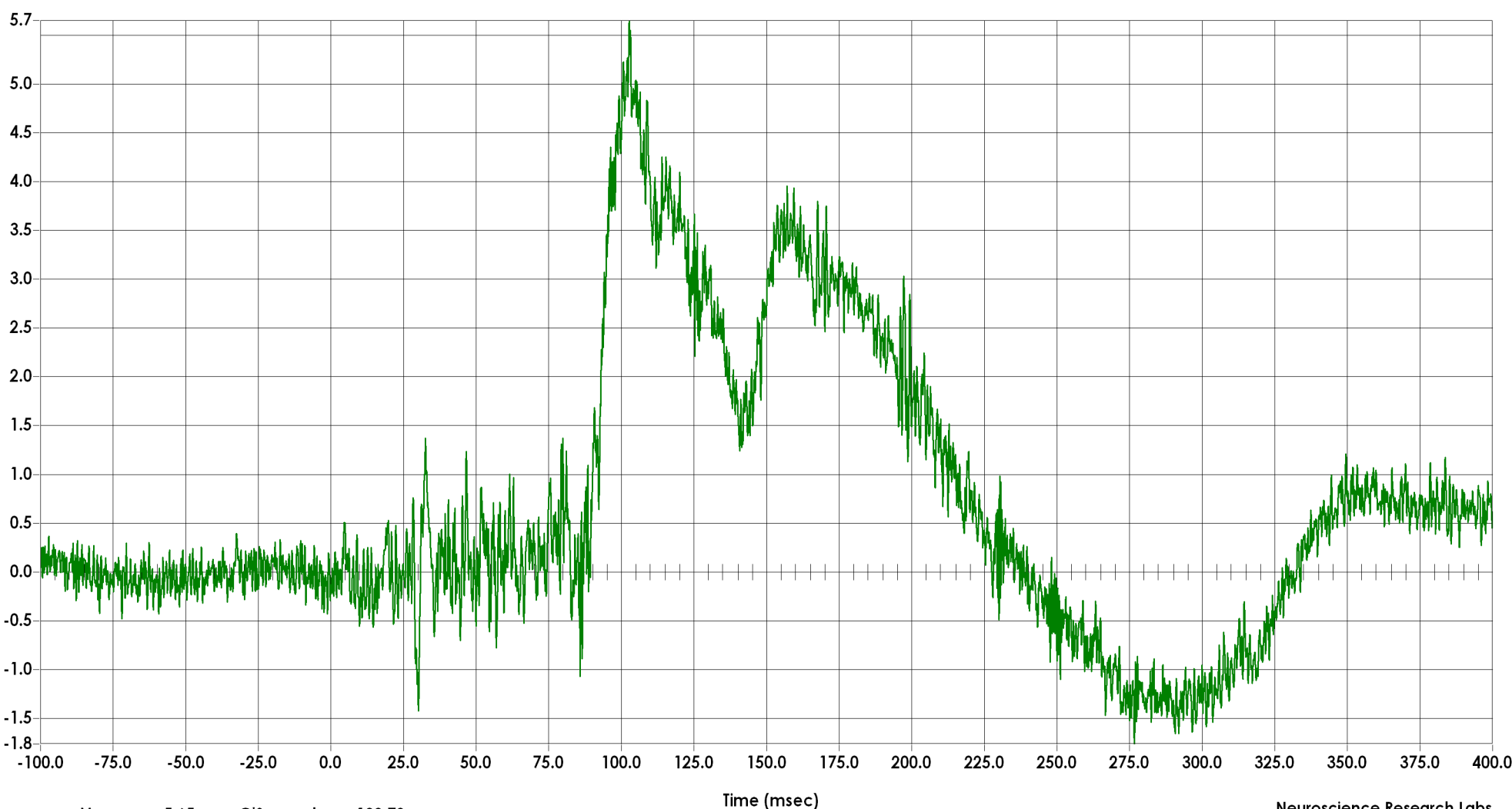
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12123



G'S Driver Head CG Acceleration YL



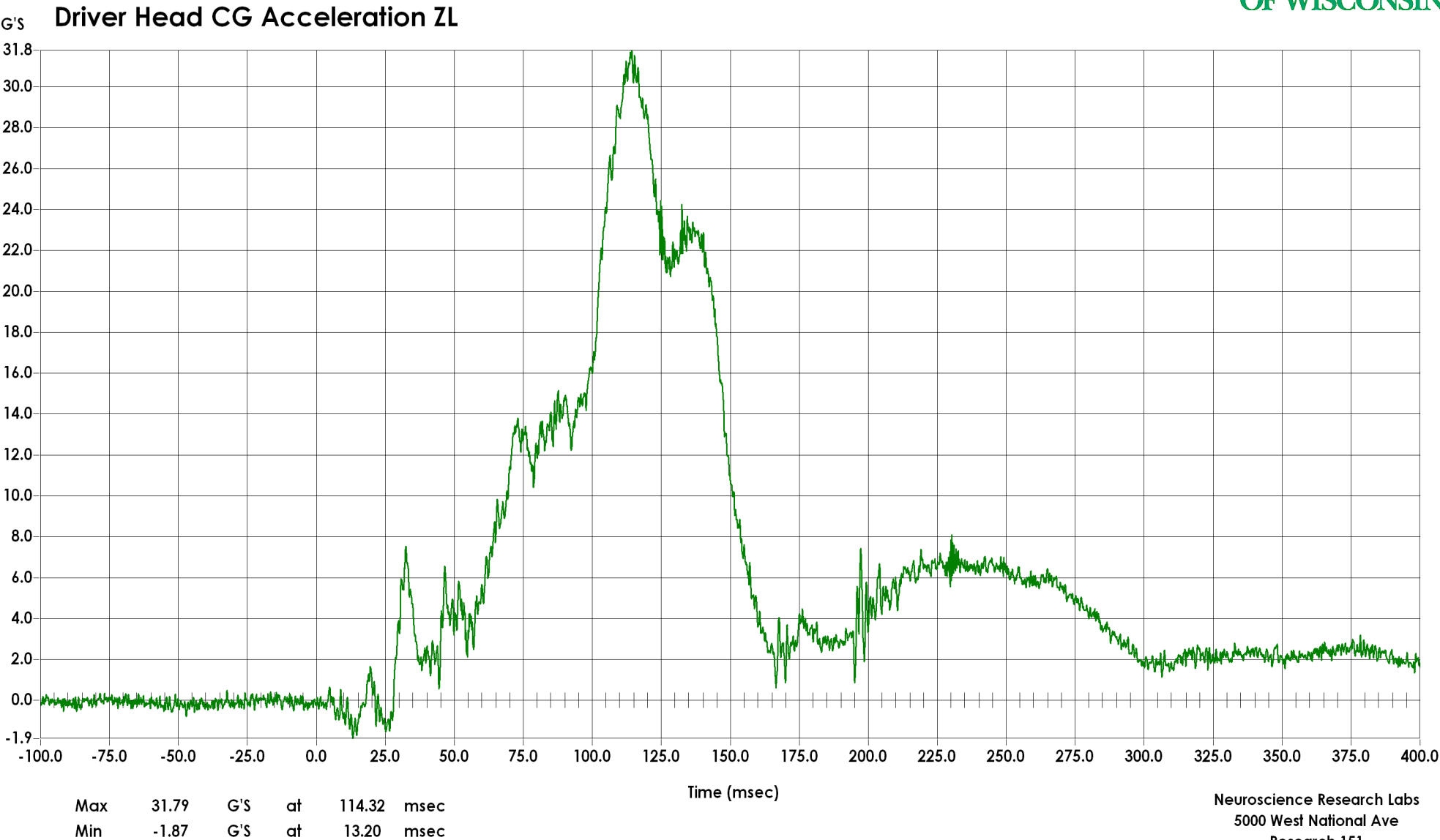
Max 5.65 G'S at 102.72 msec
Min -1.76 G'S at 276.64 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12116



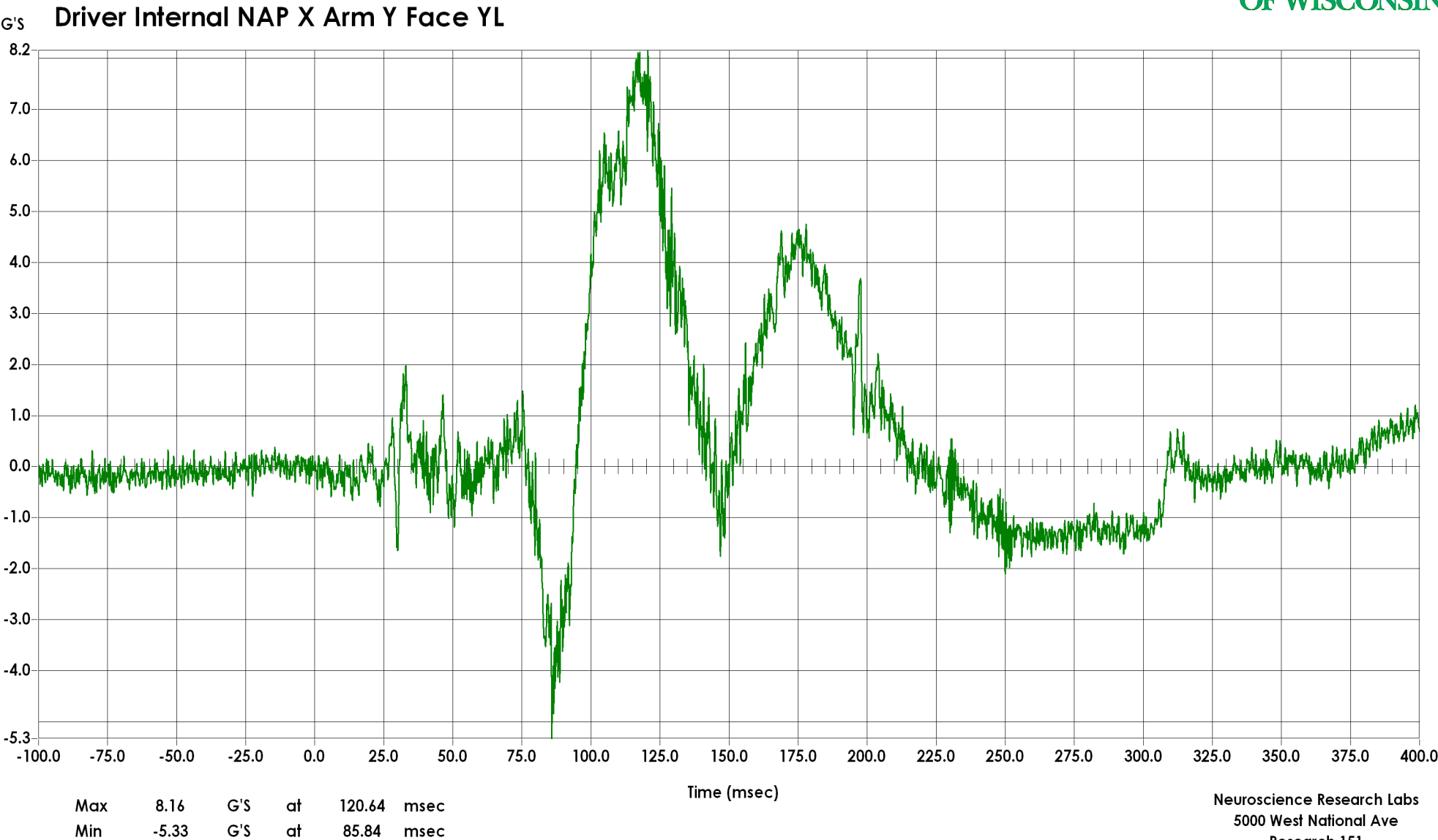
SOI002 Plot 034

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

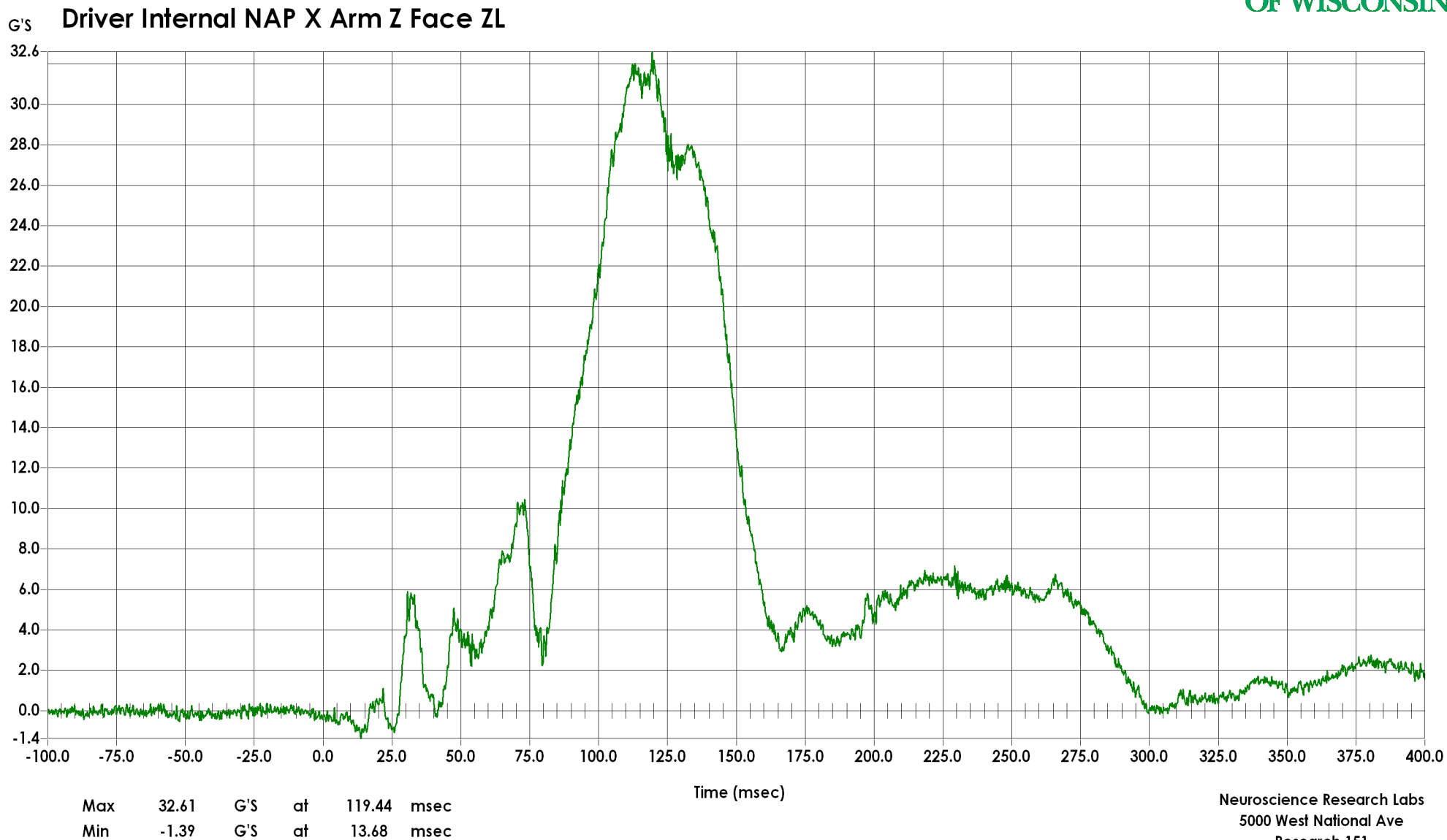
Sensor Location HD9X
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12093



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9X
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12115



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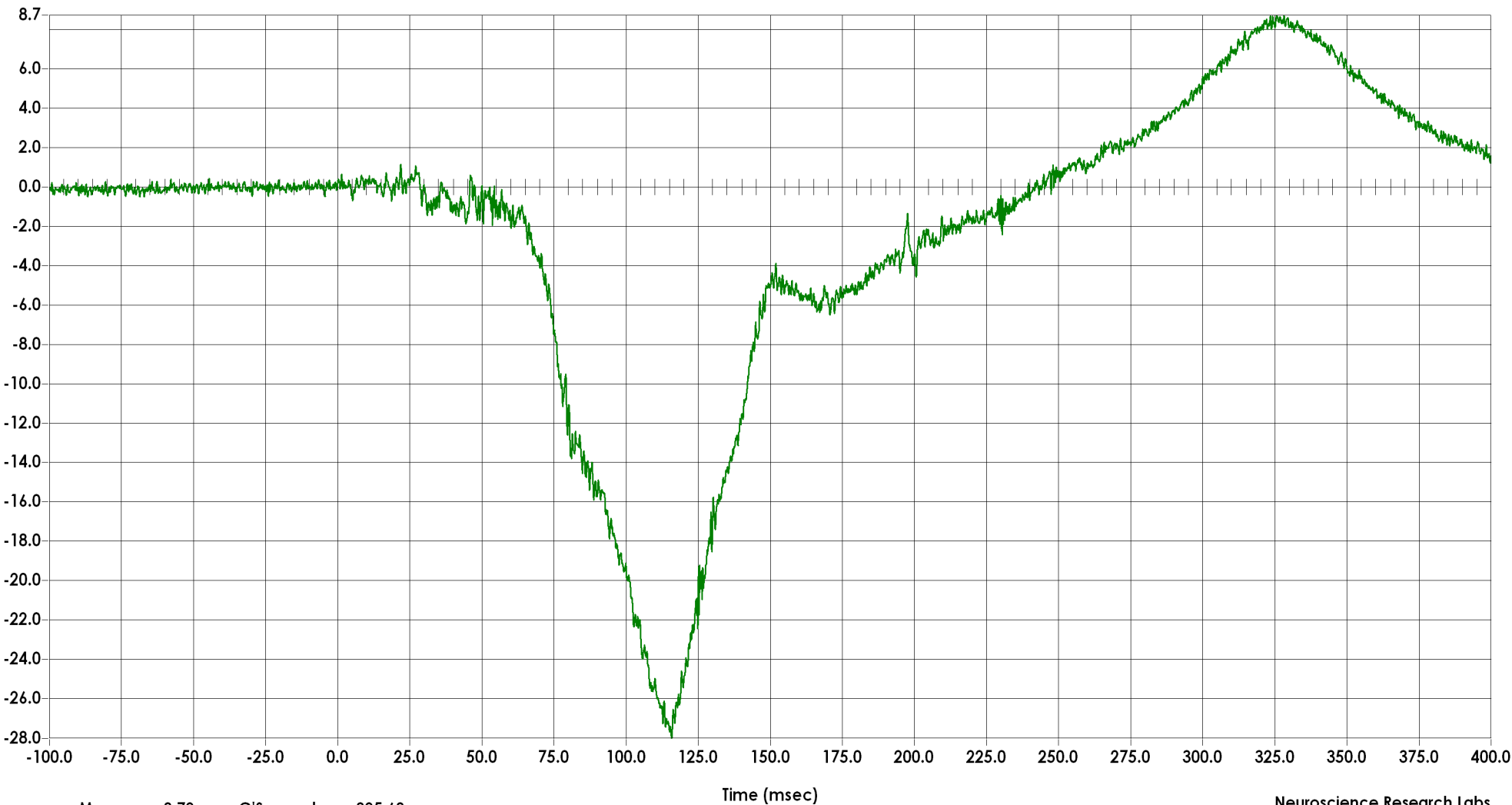
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9Y
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12104



G'S Driver Internal NAP Y Arm X Face XL



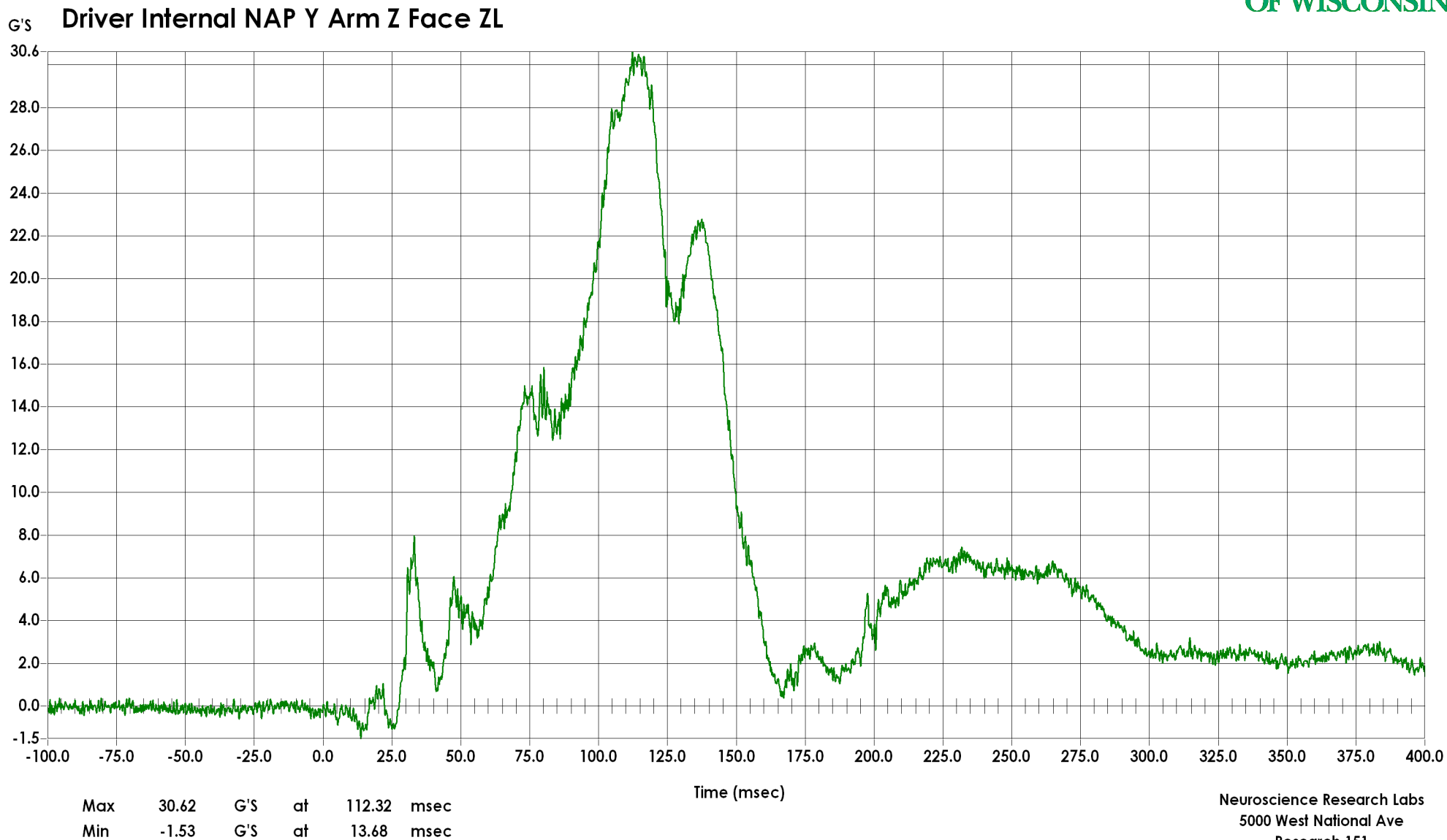
Max 8.72 G's at 325.68 msec
Min -28.02 G's at 115.84 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9Y
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12112



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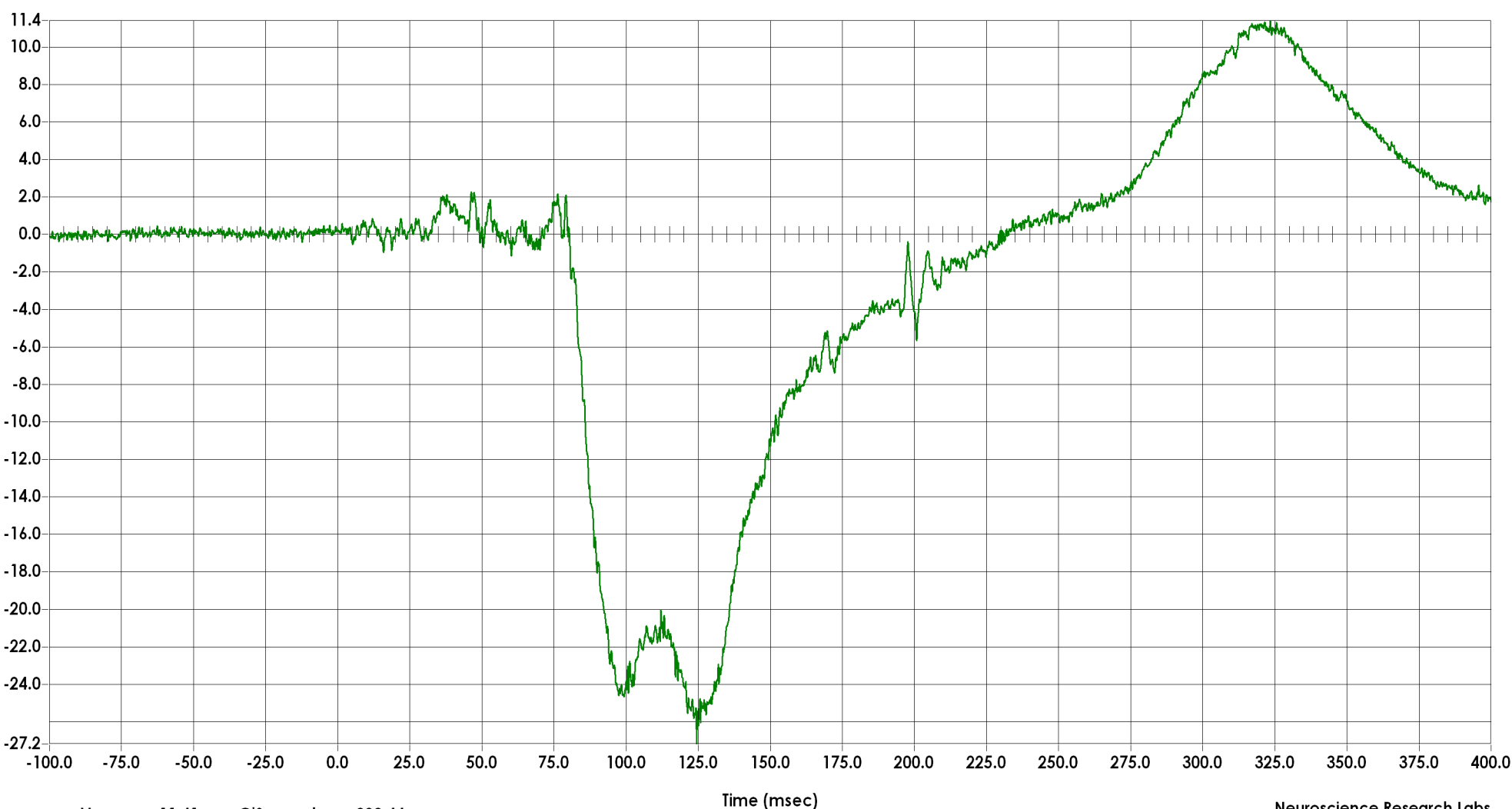
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9Z
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12117



G'S Driver Internal NAP Z Arm X Face XL



Max 11.41 G's at 323.44 msec
Min -27.18 G's at 124.48 msec

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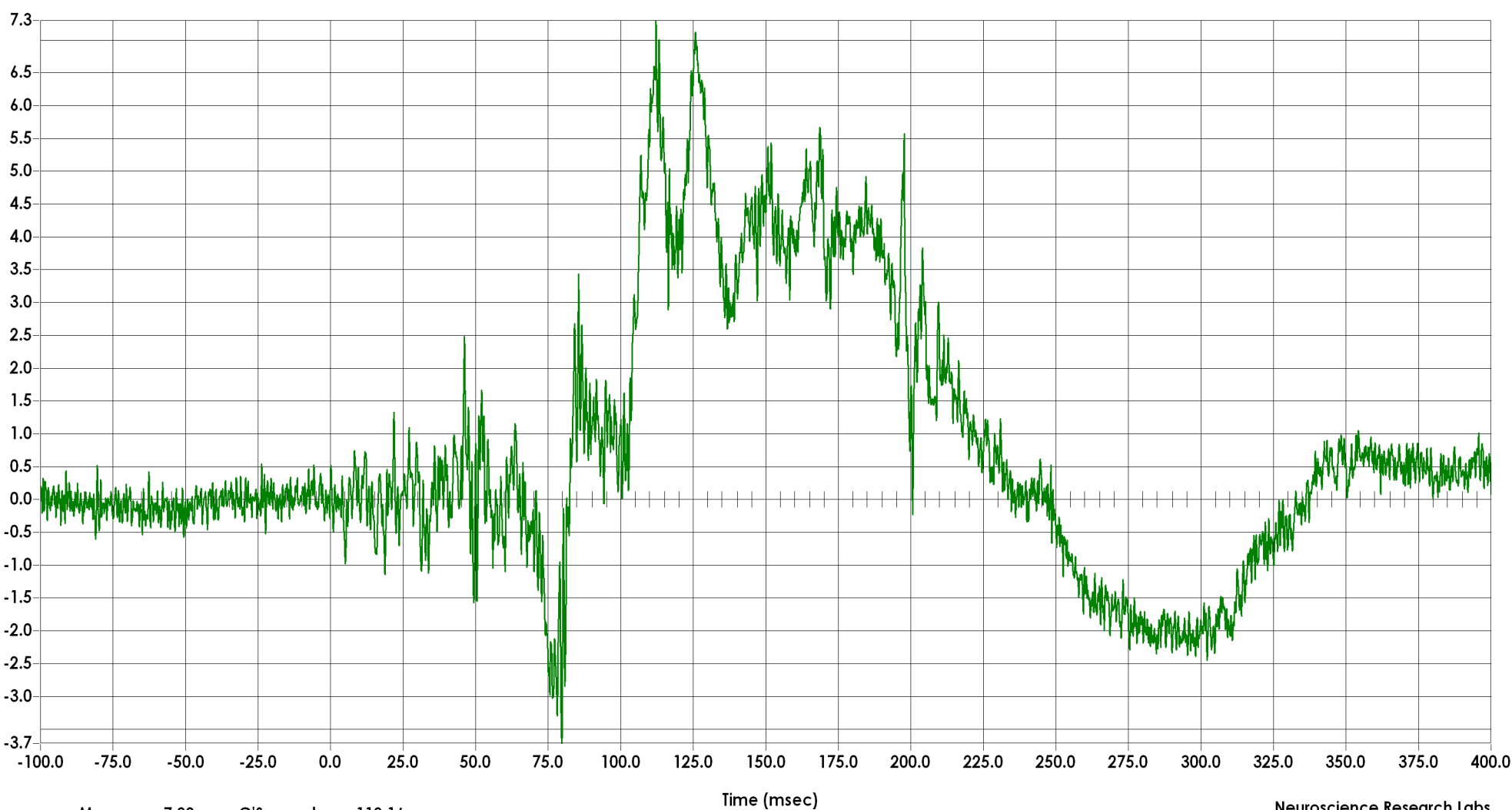
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9Z
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12126



G'S Driver Internal NAP Z Arm Y Face YL



Max 7.30 G's at 112.16 msec
Min -3.72 G's at 79.68 msec

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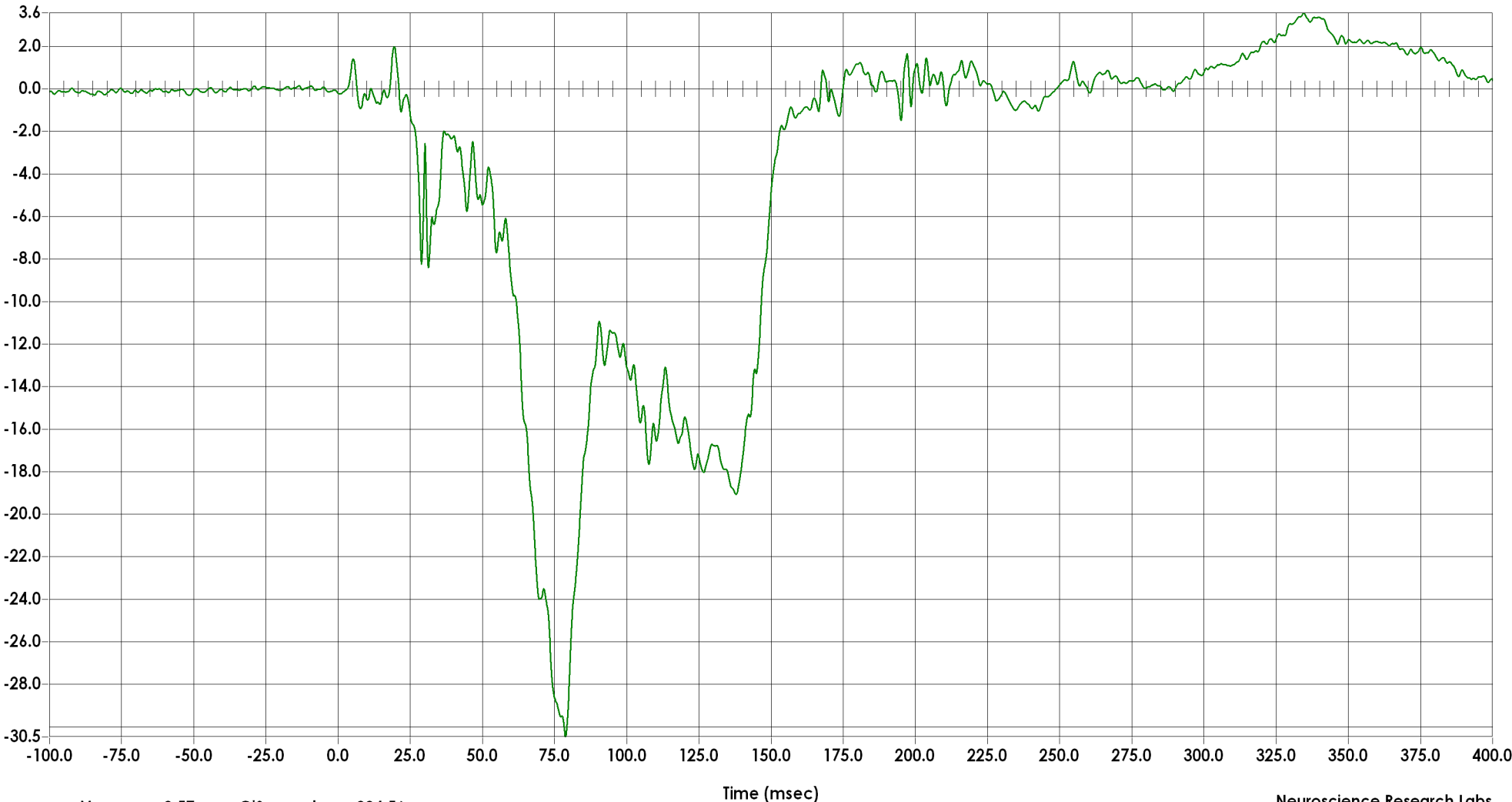
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNU
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12121



G's Driver T1 acceleration XL



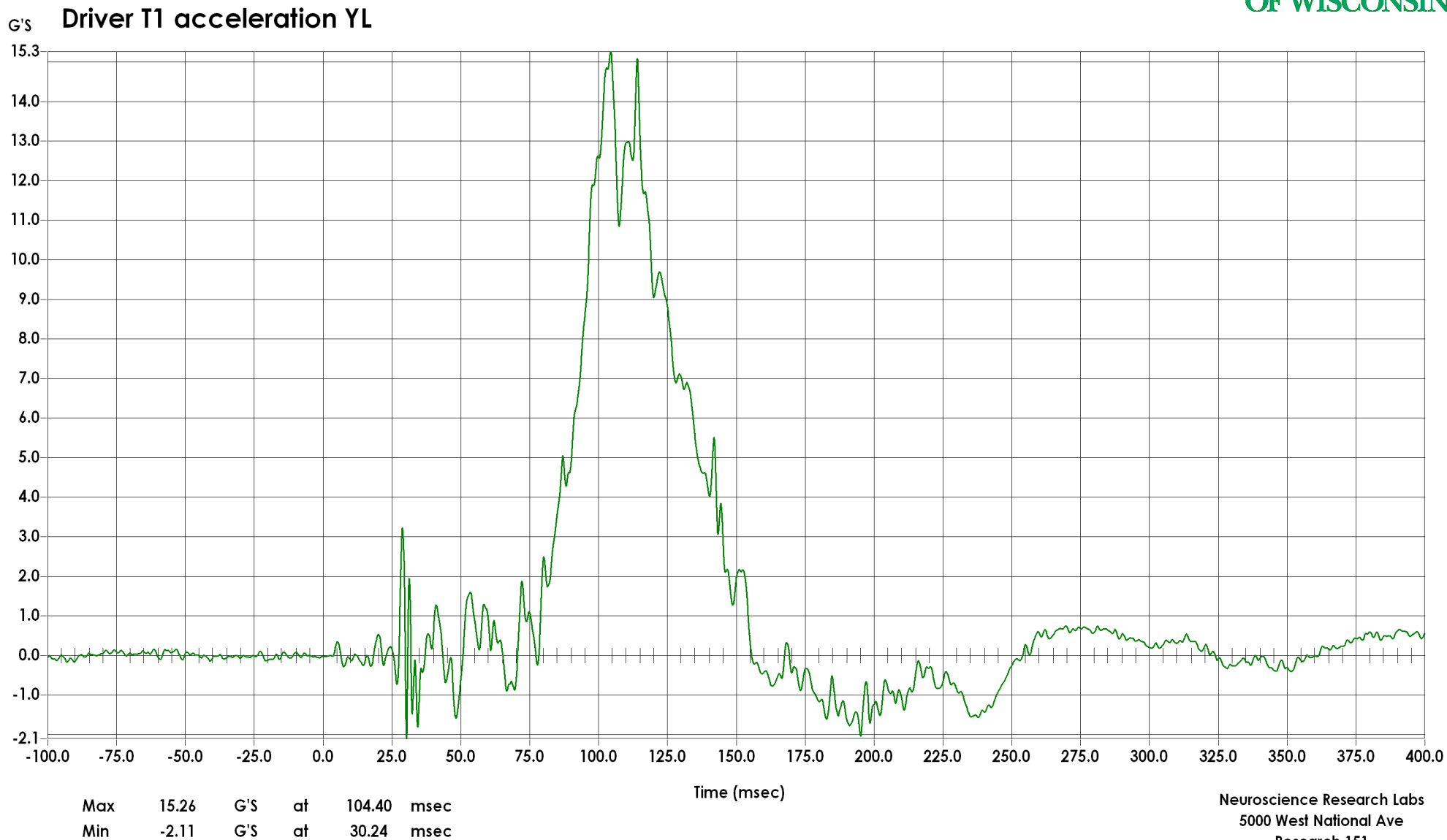
Max 3.57 G's at 334.56 msec
Min -30.47 G's at 78.80 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

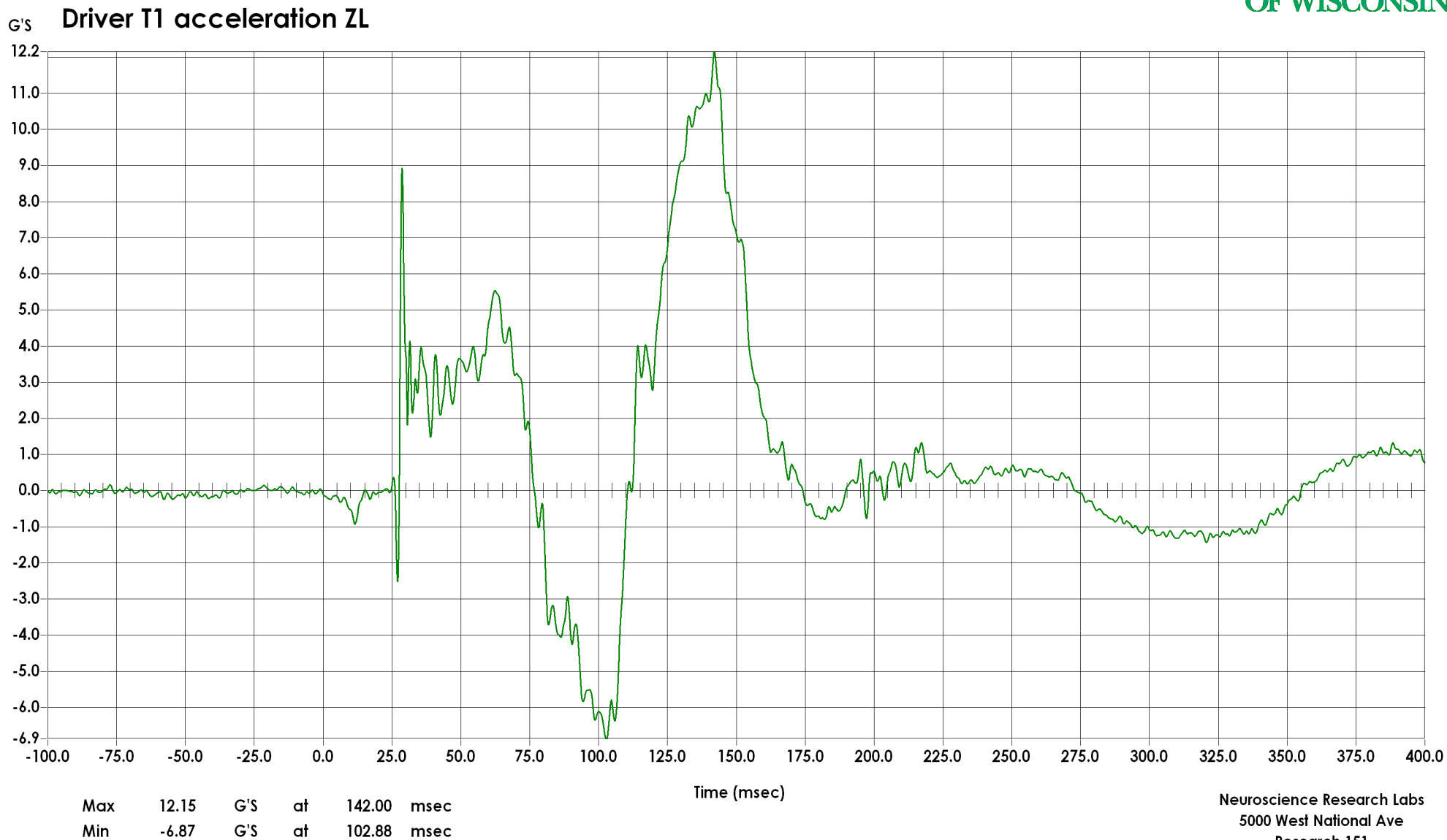
Sensor Location SPNU
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12086



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNU
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12119



SOI002 Plot 043

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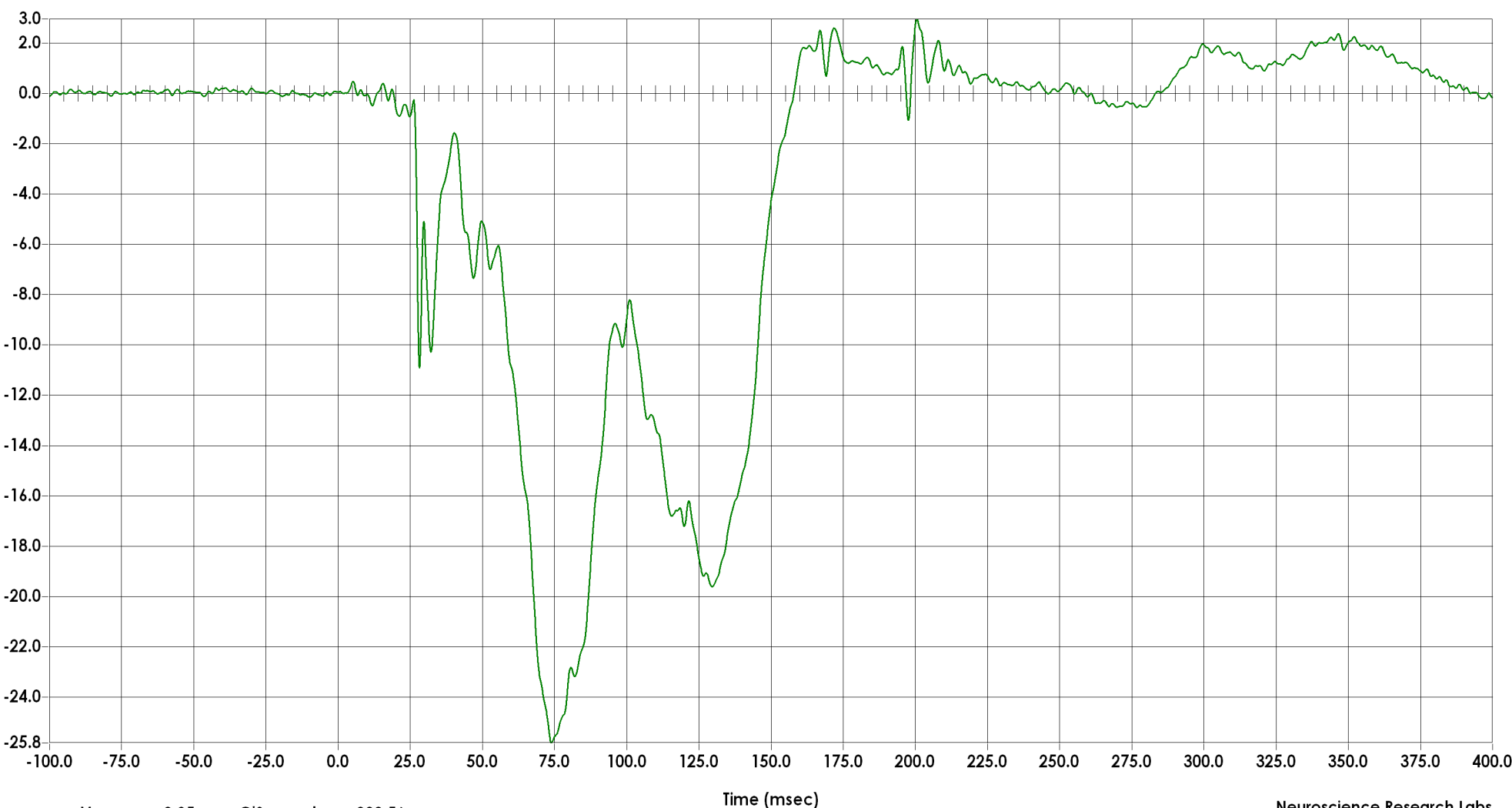
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12102



G's Driver T4 acceleration XL



Max 2.95 G's at 200.56 msec
Min -25.82 G's at 73.92 msec

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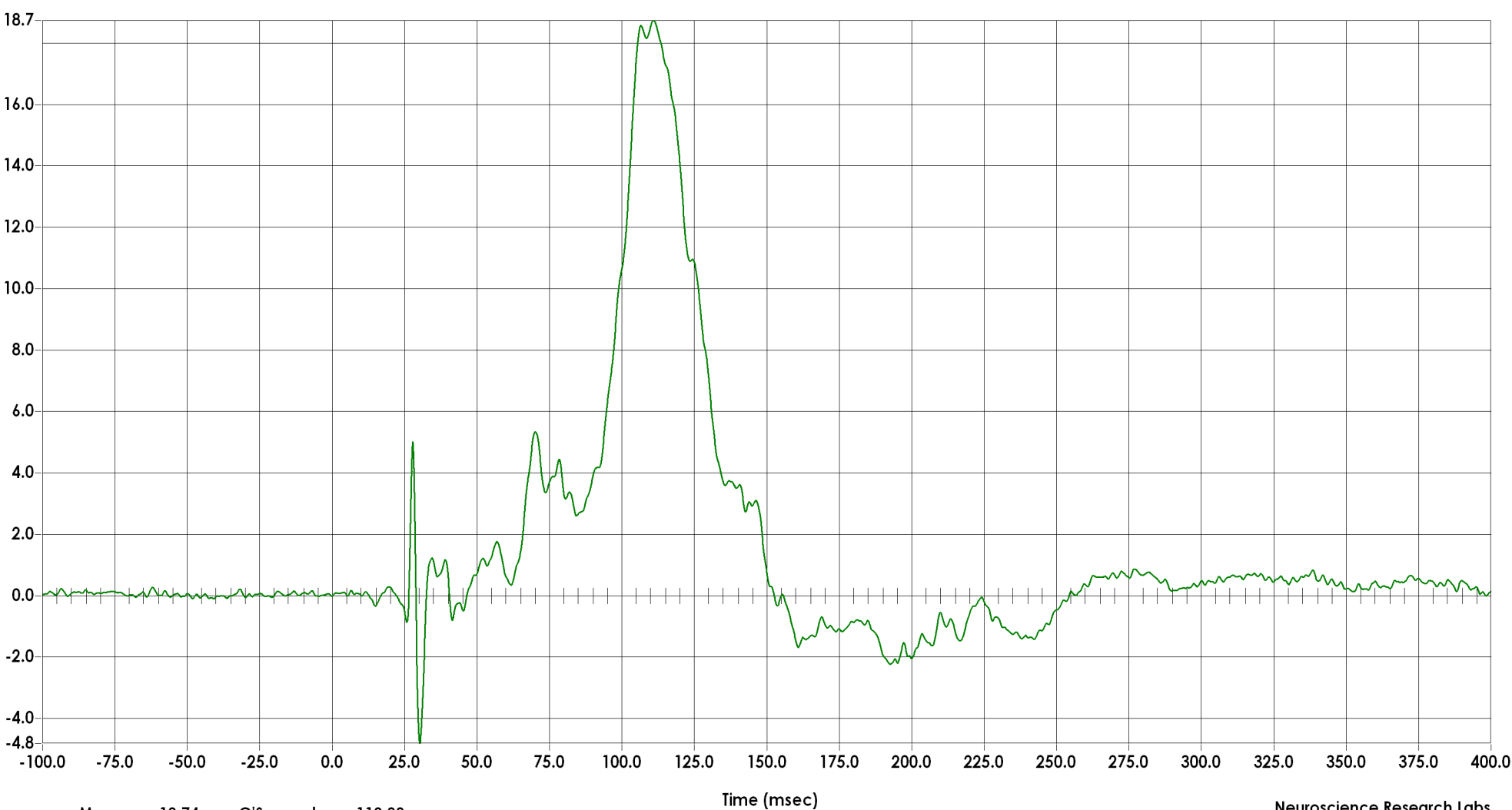
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12097



G'S Driver T4 acceleration YL



Max 18.74 G'S at 110.88 msec
Min -4.82 G'S at 30.24 msec

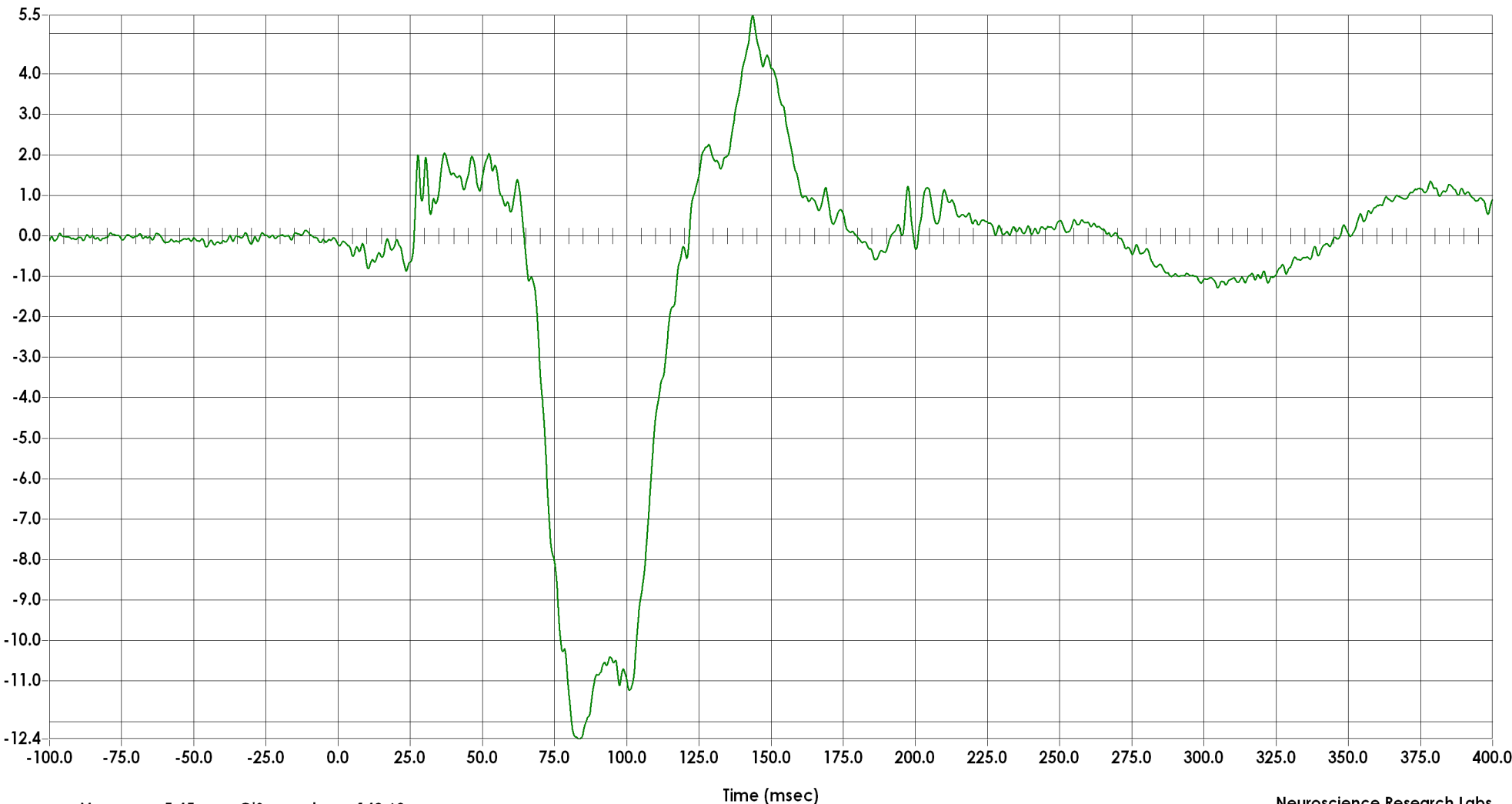
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12100



G'S Driver T4 acceleration ZL



Max 5.45 G'S at 143.60 msec
Min -12.43 G'S at 83.52 msec

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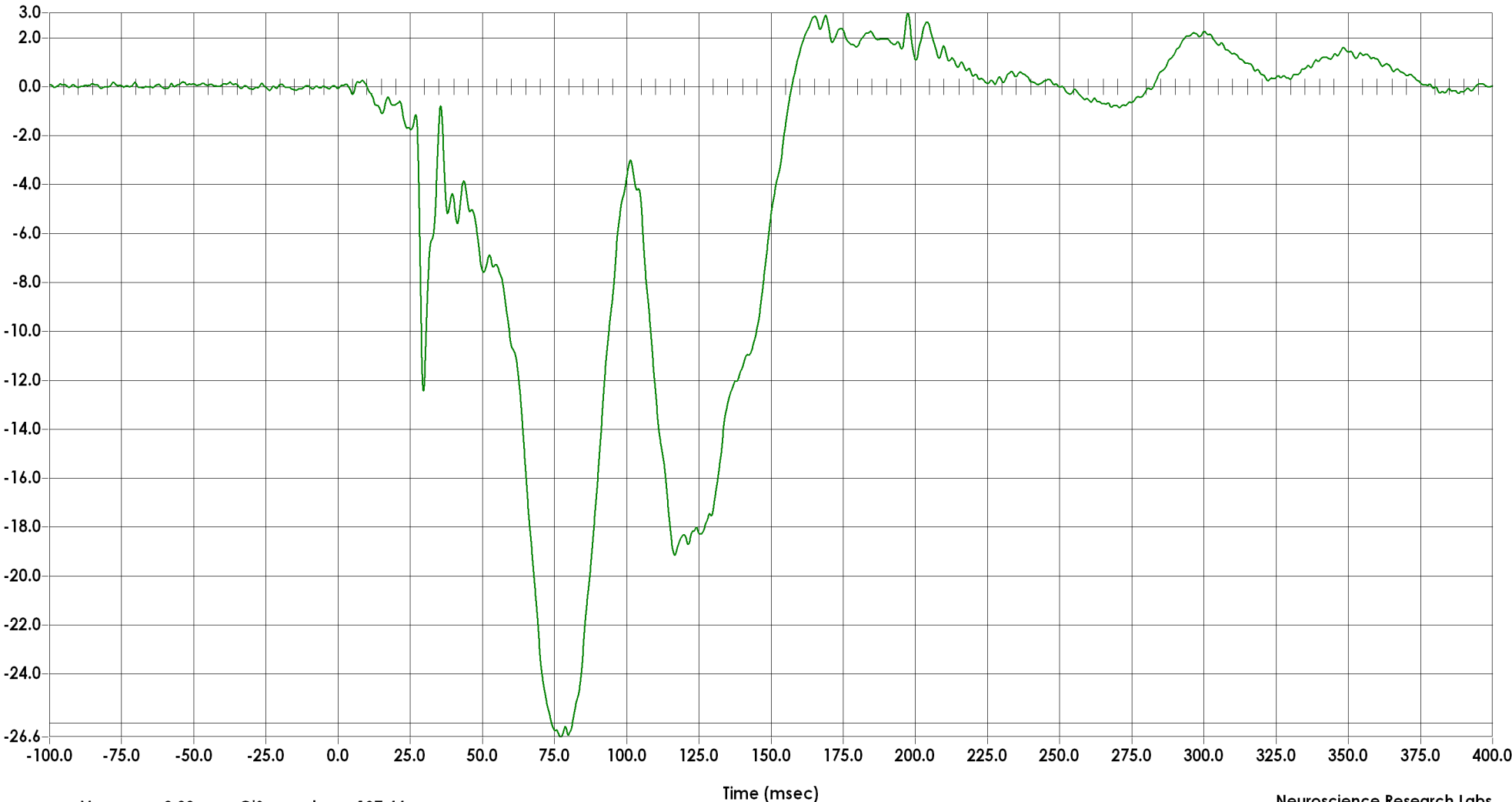
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNL
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12133



G'S Driver T12 acceleration XL



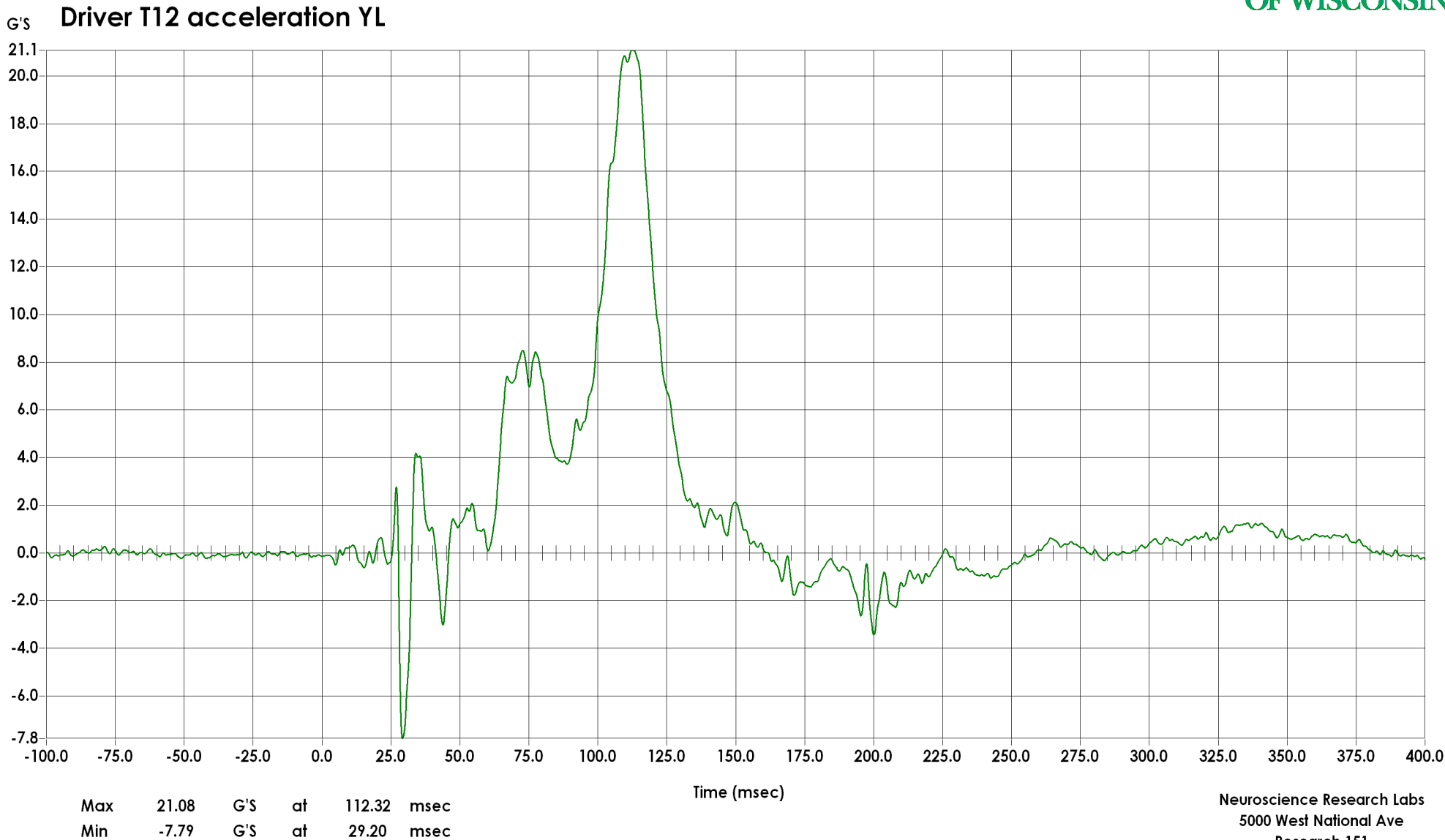
Max 3.02 G's at 197.44 msec
Min -26.57 G's at 77.12 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNL
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12149



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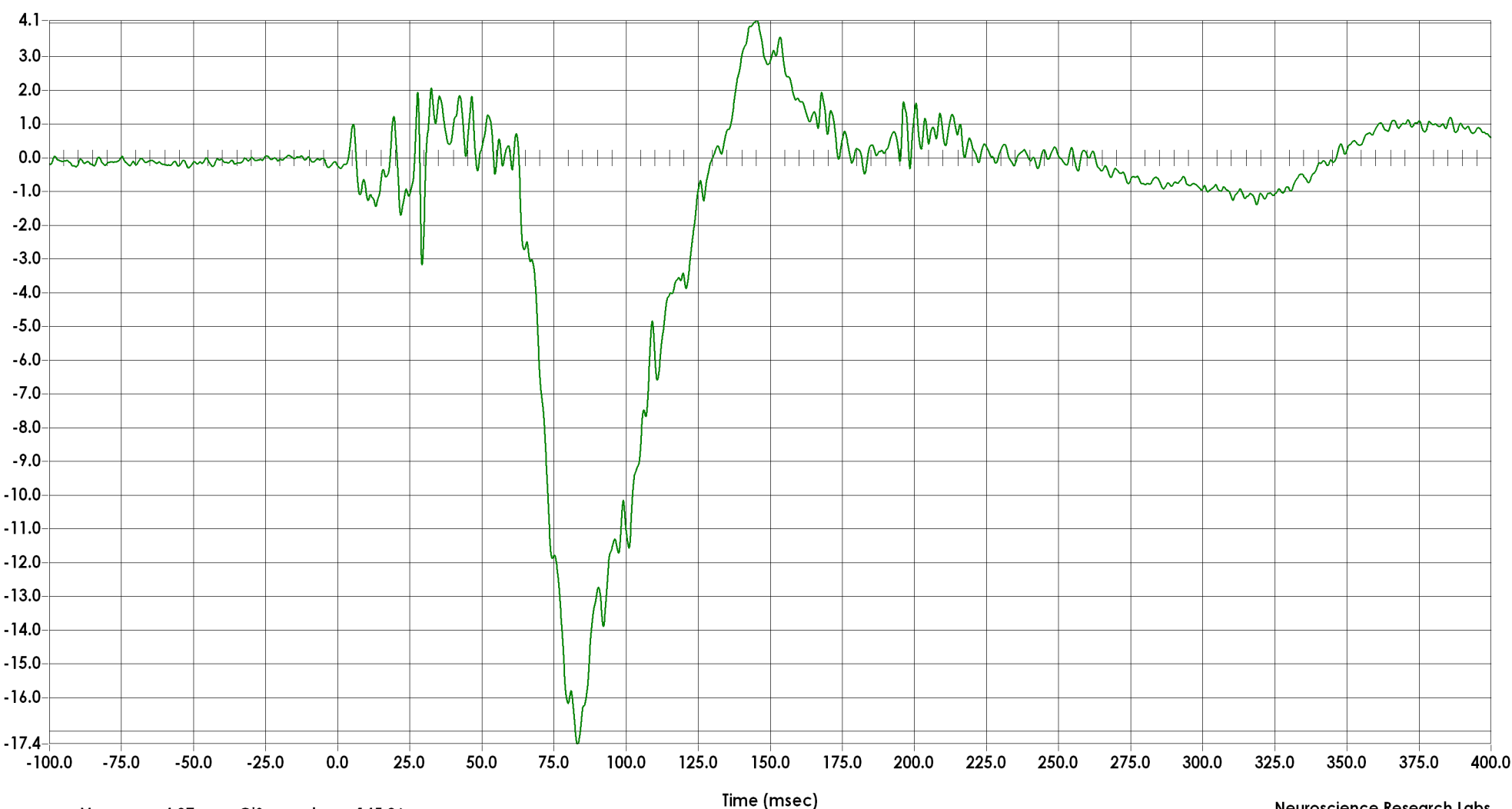
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNL
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12124



G's Driver T12 acceleration ZL



Max 4.07 G's at 145.36 msec
Min -17.37 G's at 83.12 msec

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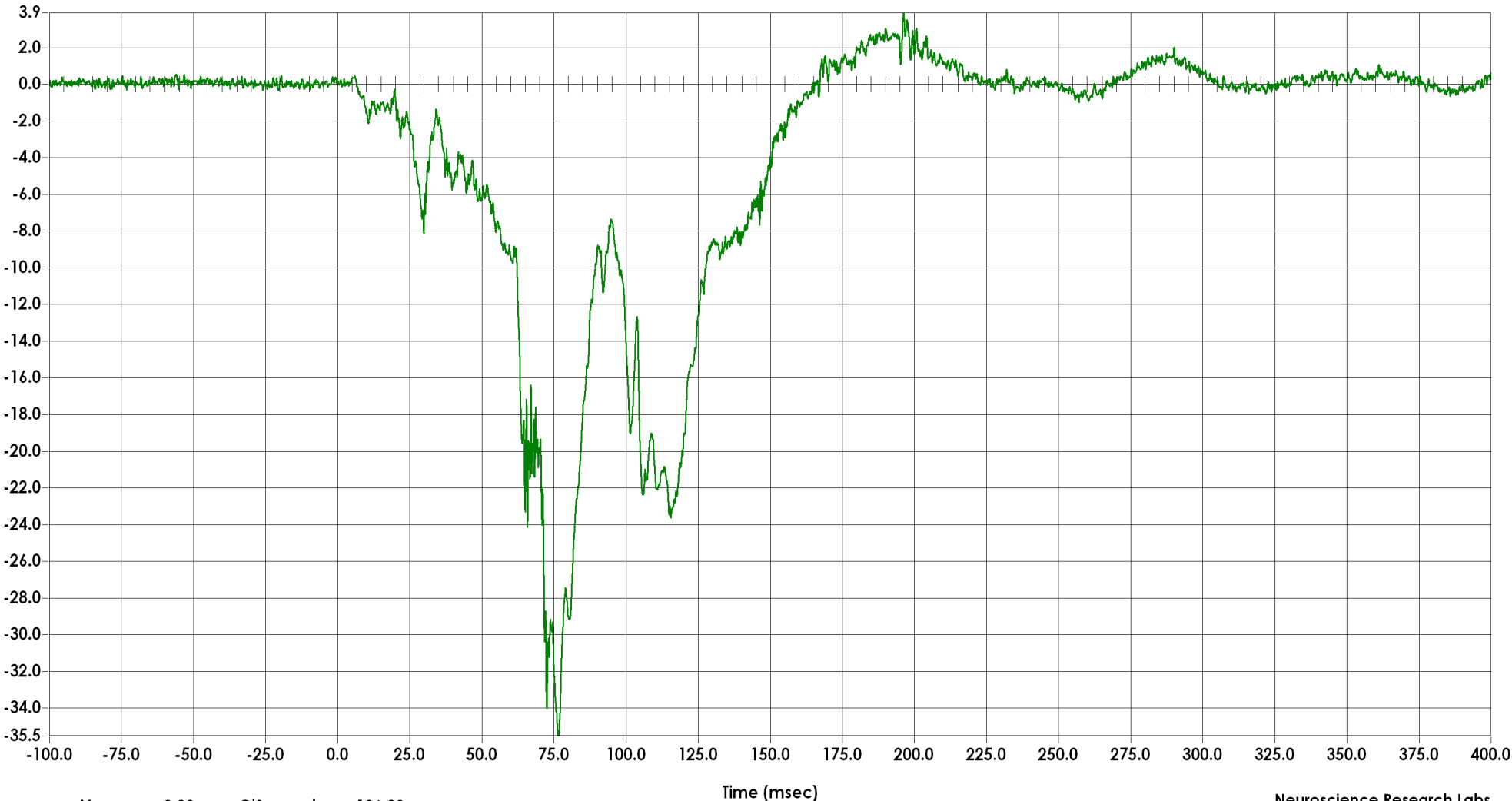
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVSA
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12136



G'S Driver Pelvis acceleration XL



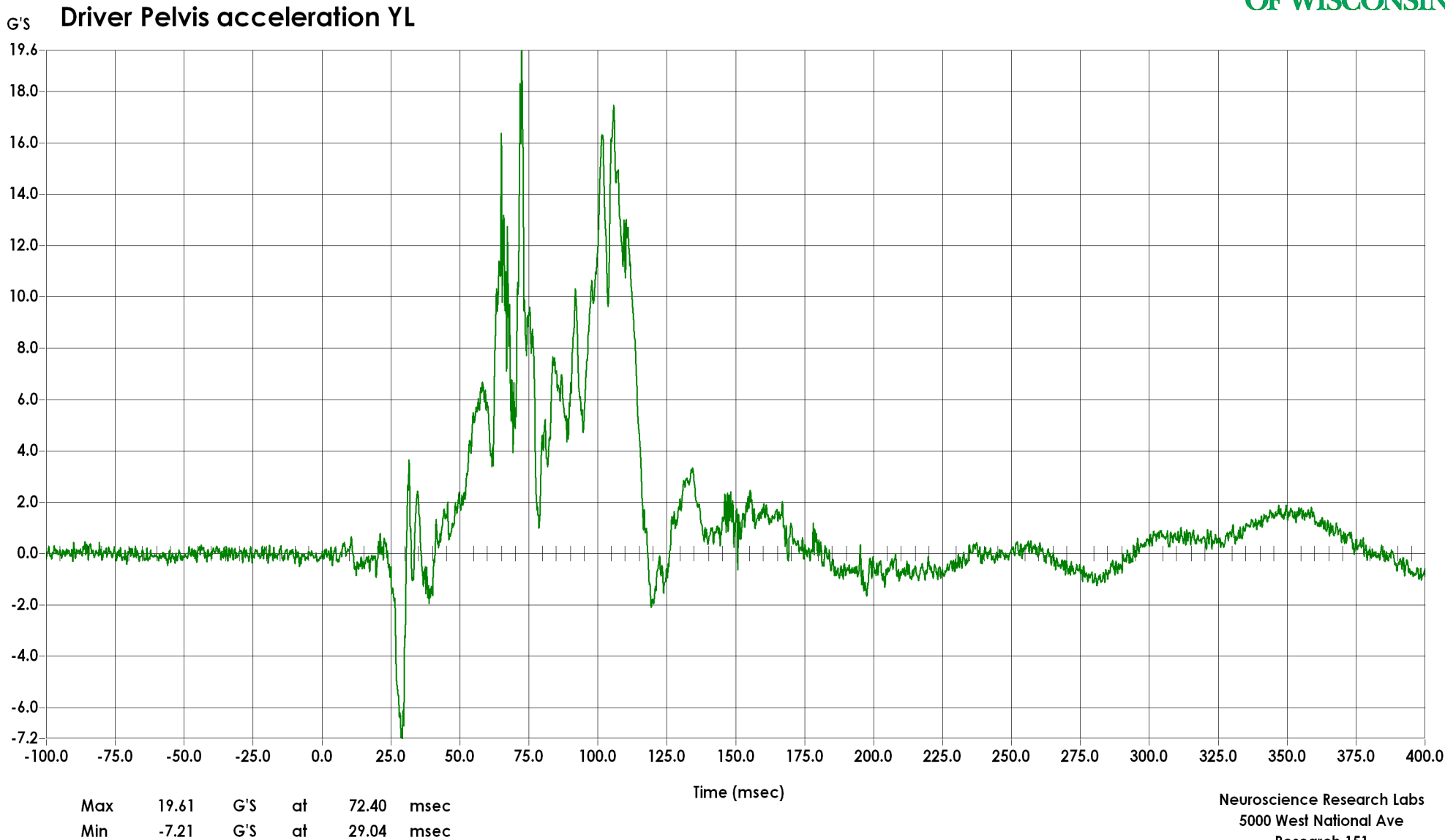
Max 3.89 G's at 196.32 msec
Min -35.52 G's at 76.72 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVSA
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12120



SOI002 Plot 051

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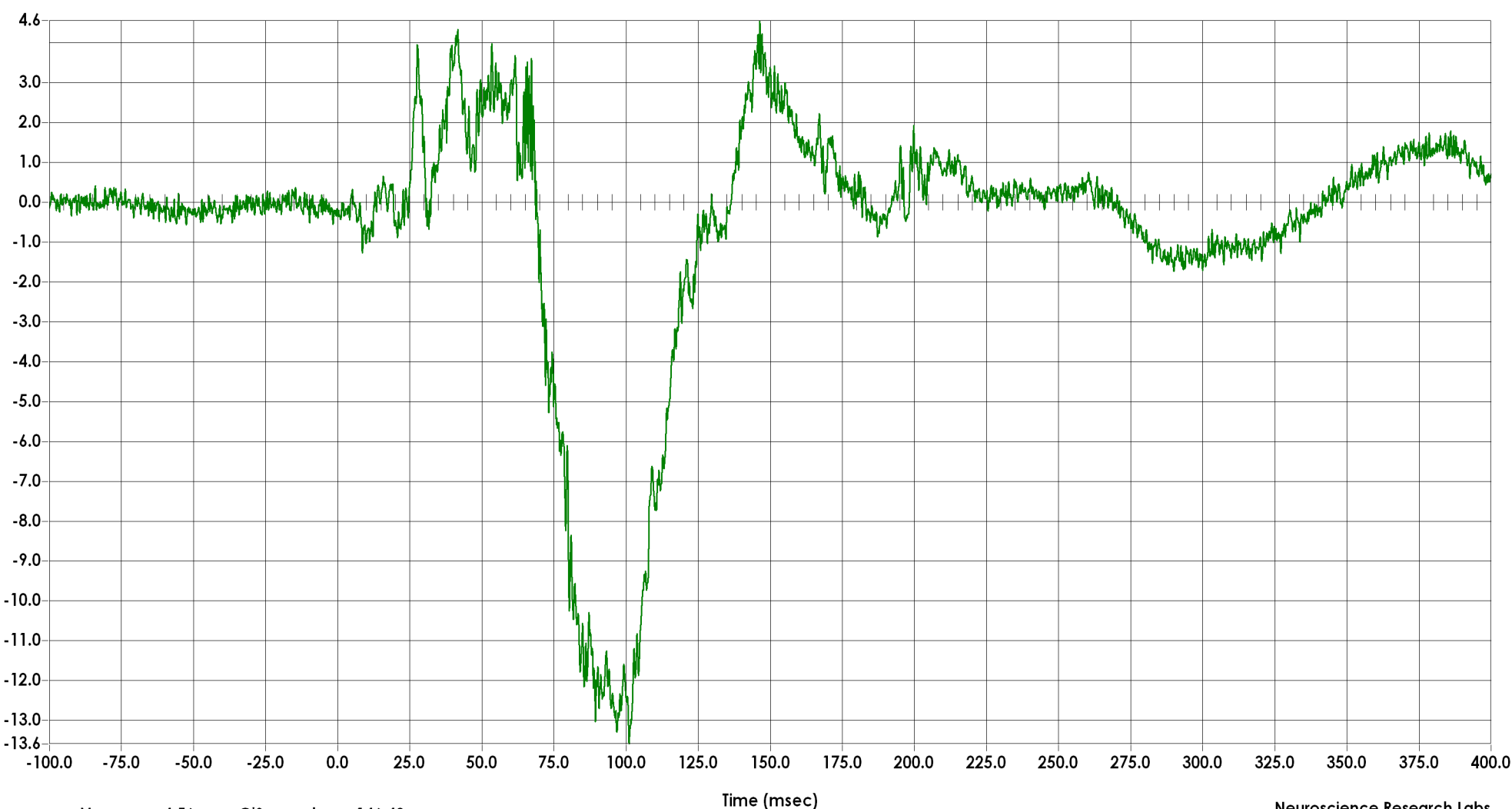
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVSA
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12142



G'S Driver Pelvis acceleration ZL



Max 4.56 G's at 146.40 msec
Min -13.59 G's at 101.04 msec

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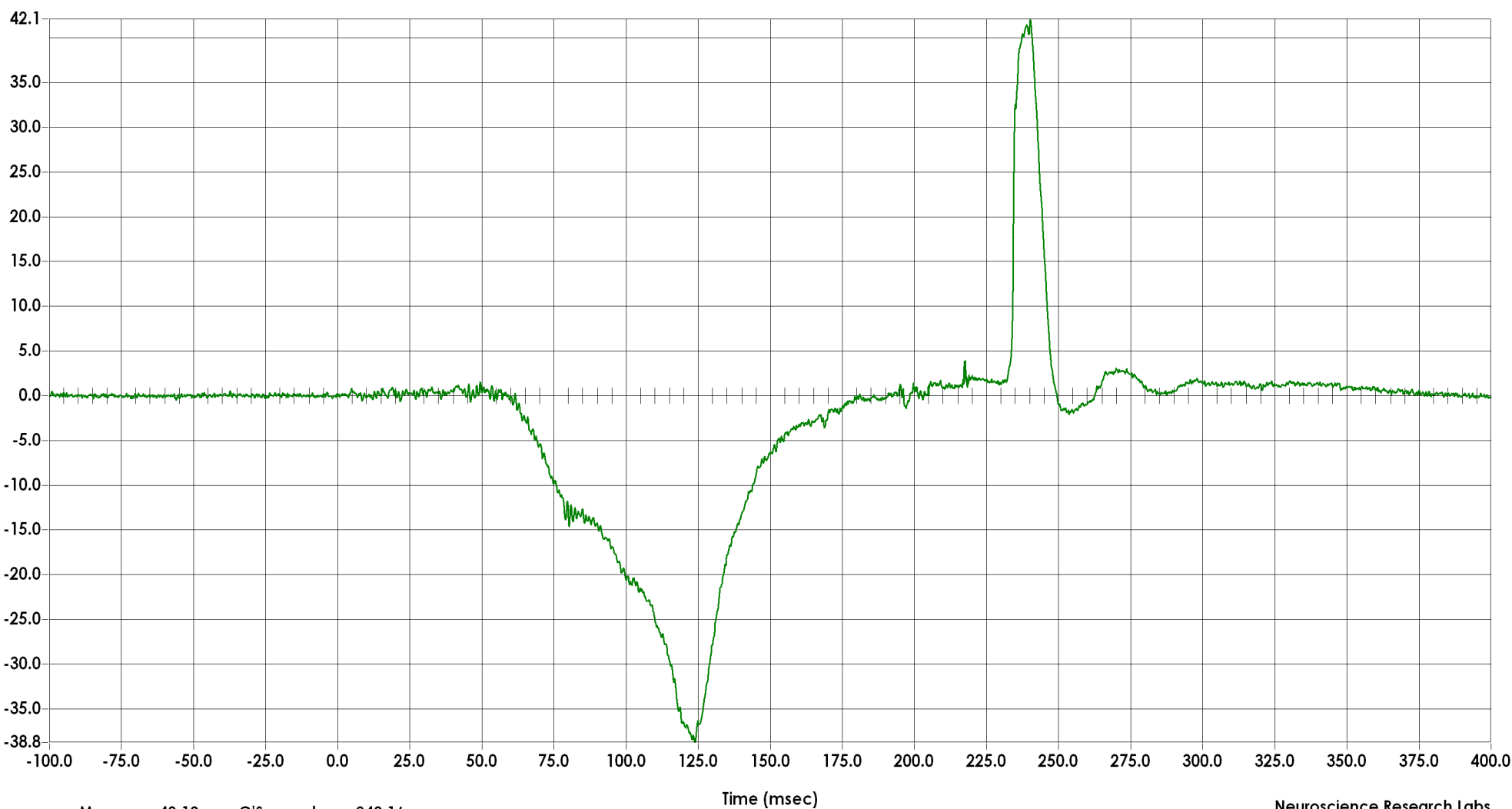
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12122



G'S Passenger Head CG Acceleration XL



Max 42.10 G's at 240.16 msec
Min -38.75 G's at 123.92 msec

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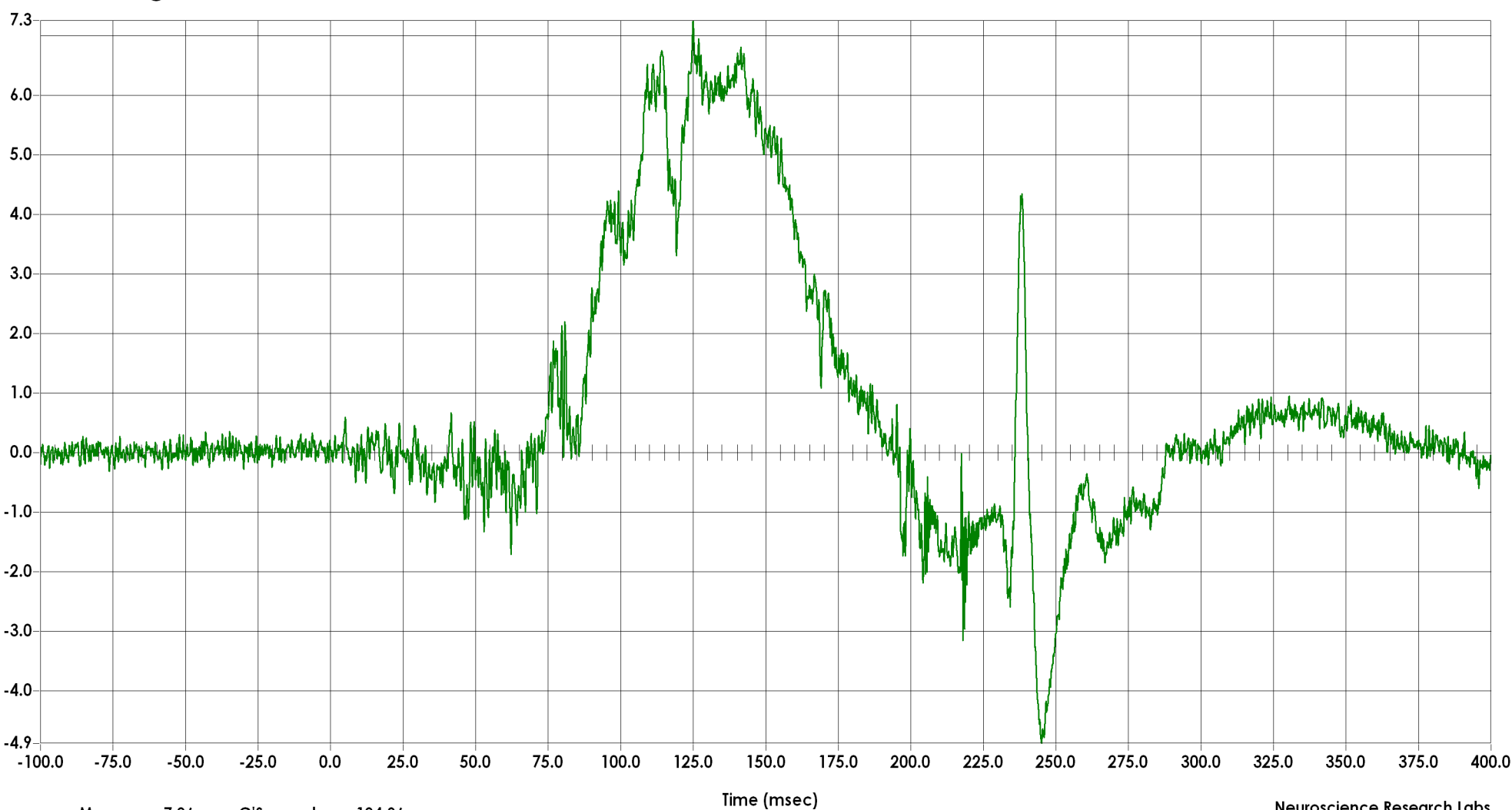
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12090



G'S Passenger Head CG Acceleration YL



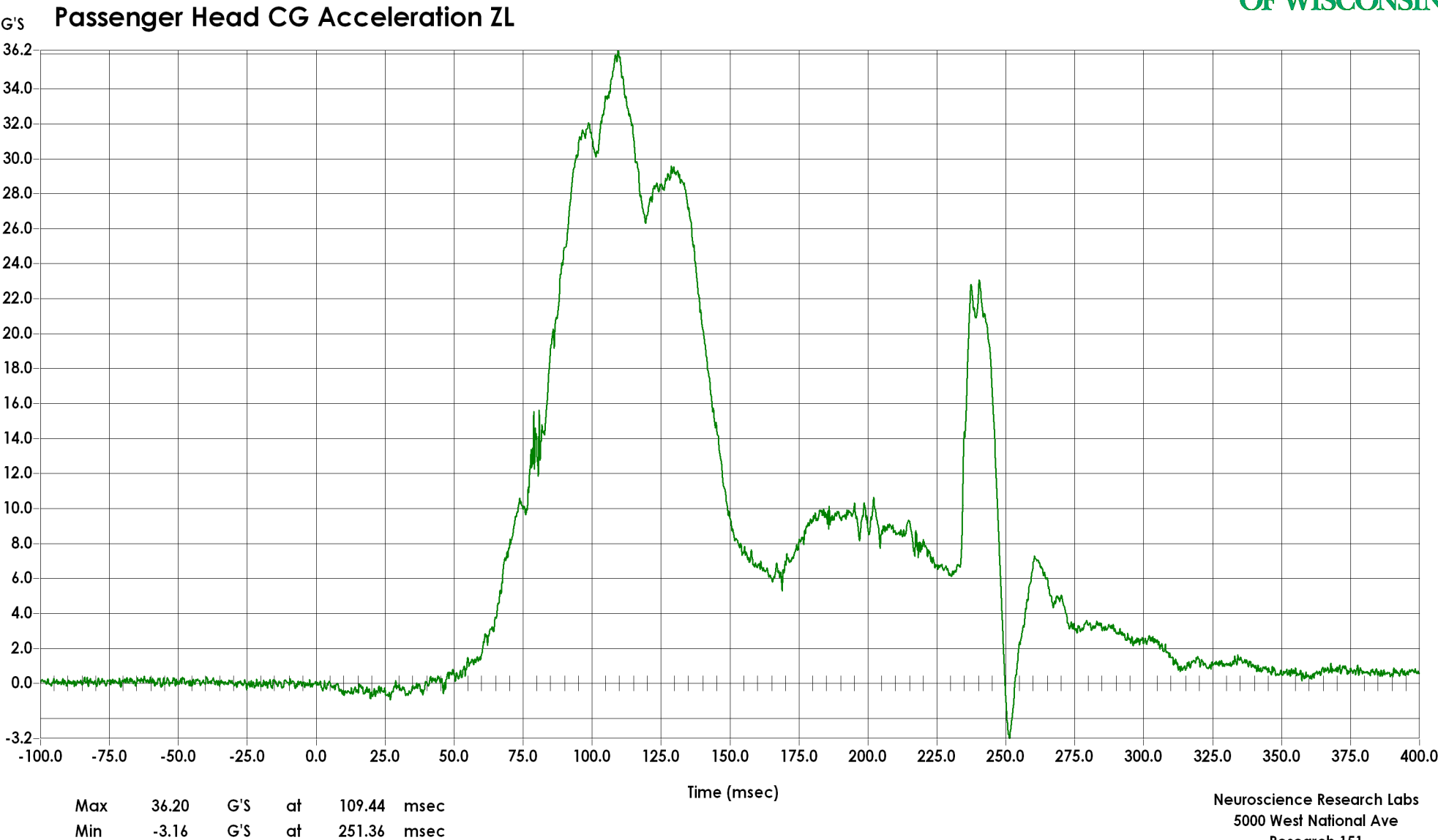
Max 7.26 G's at 124.96 msec
Min -4.89 G's at 245.04 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HDCG
Sensor Info ENDEVCO 7264C-2KTZ-2-360
Serial Number 12091



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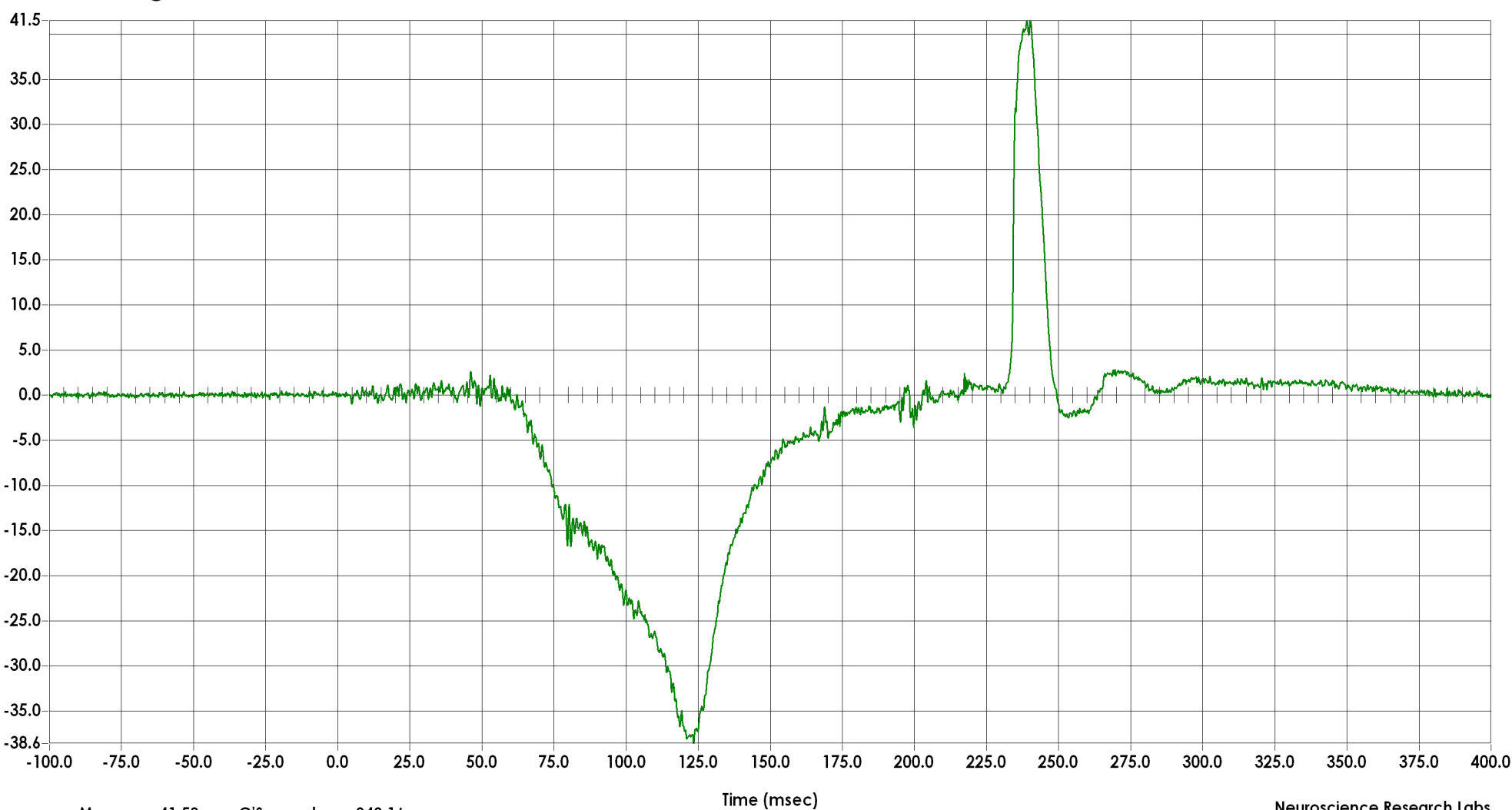
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12128



G'S Passenger Redundant Head CG Acceleration XL



Max 41.53 G's at 240.16 msec
Min -38.61 G's at 123.44 msec

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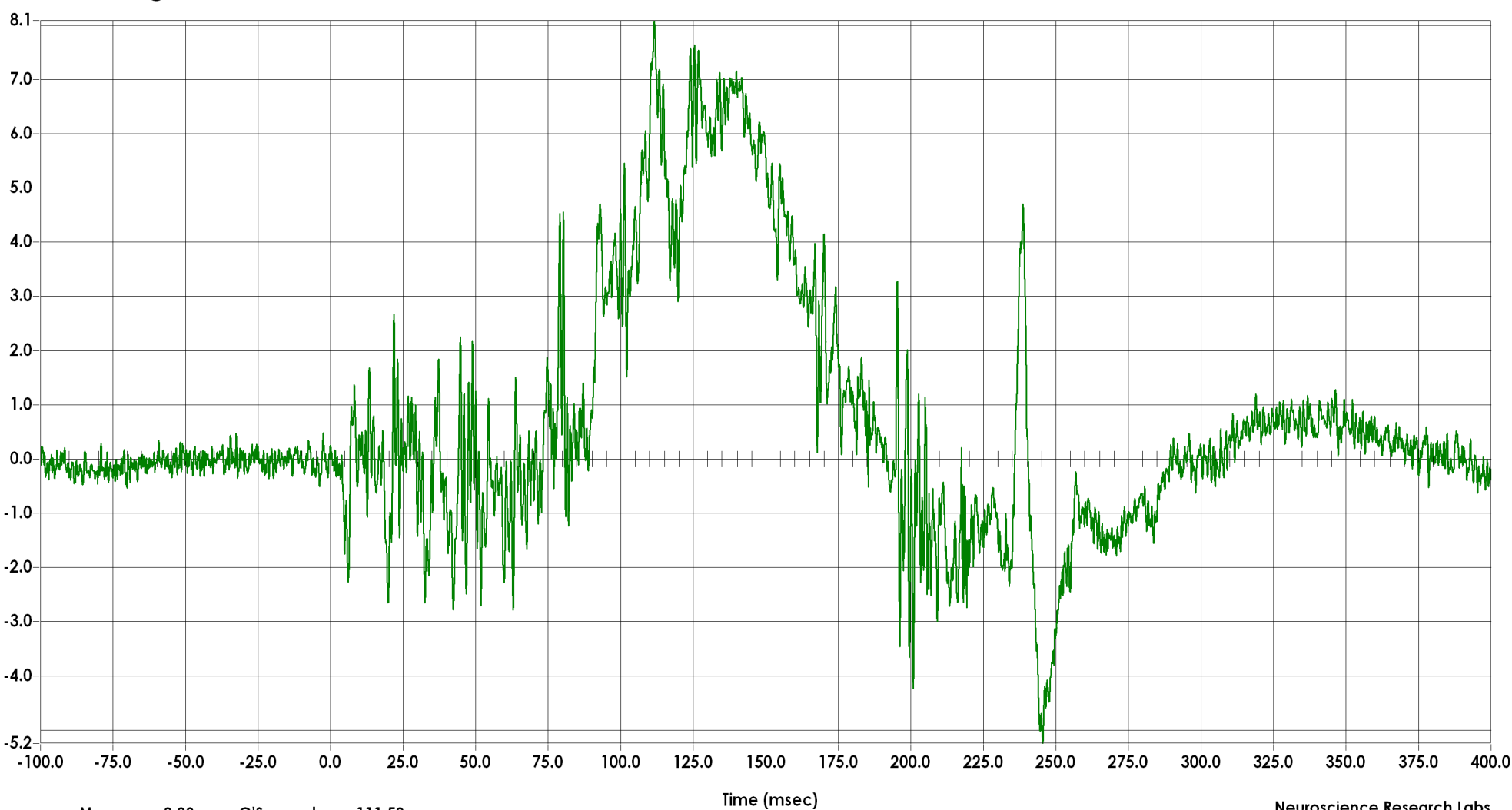
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12092



G'S Passenger Redundant Head CG Acceleration YL



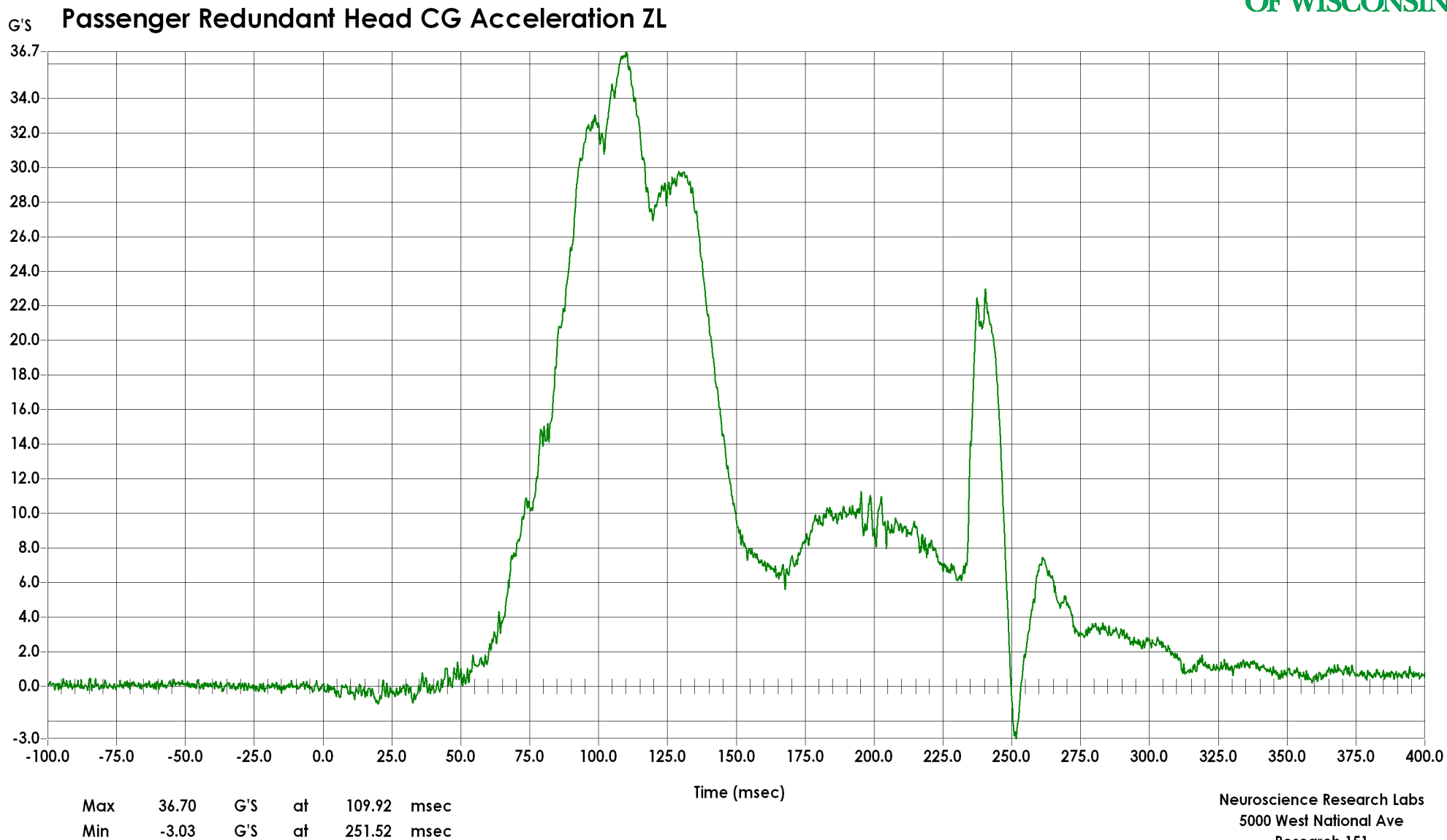
Max 8.09 G's at 111.52 msec
Min -5.25 G's at 245.52 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

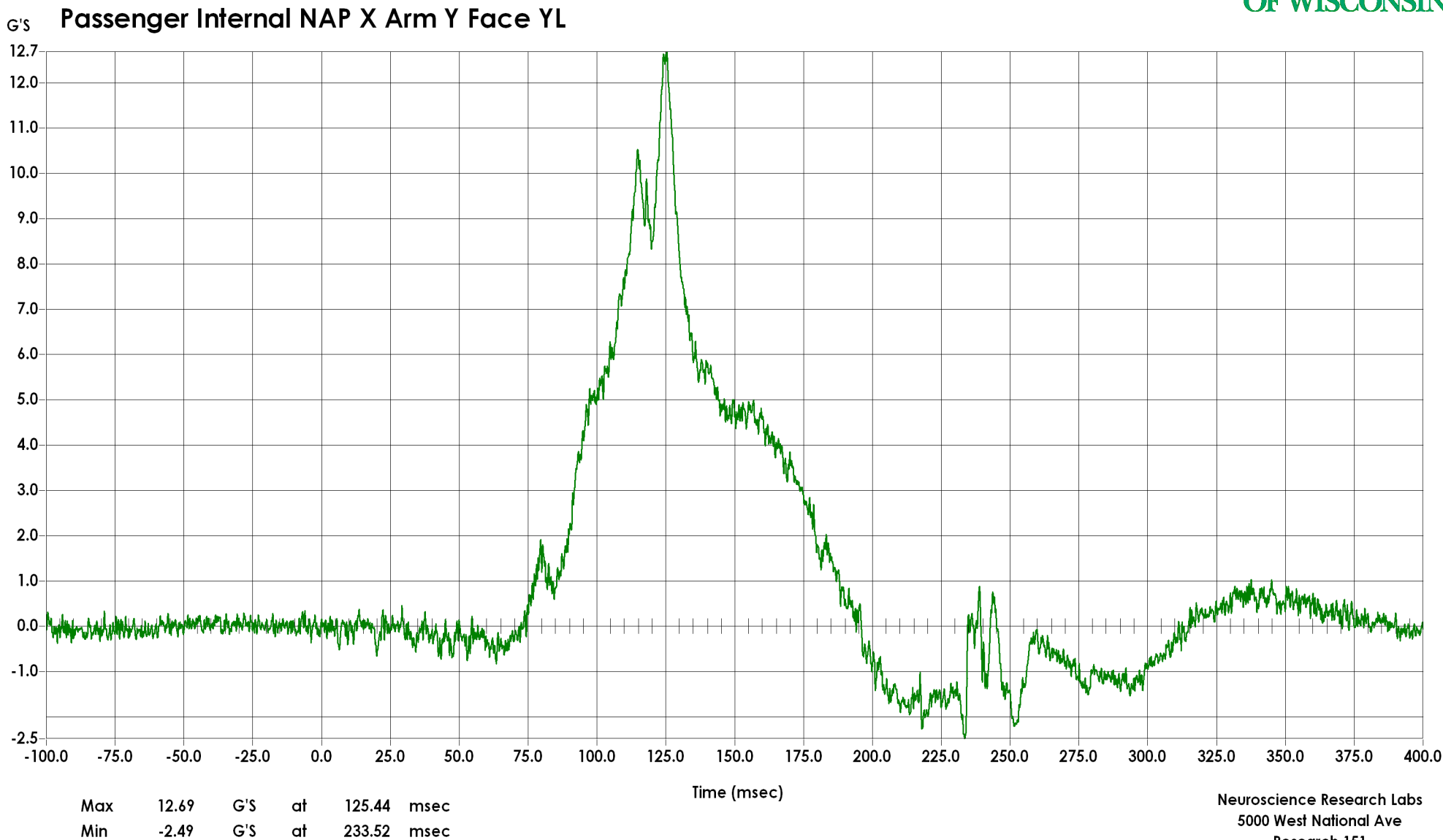
Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12101



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9X
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12129

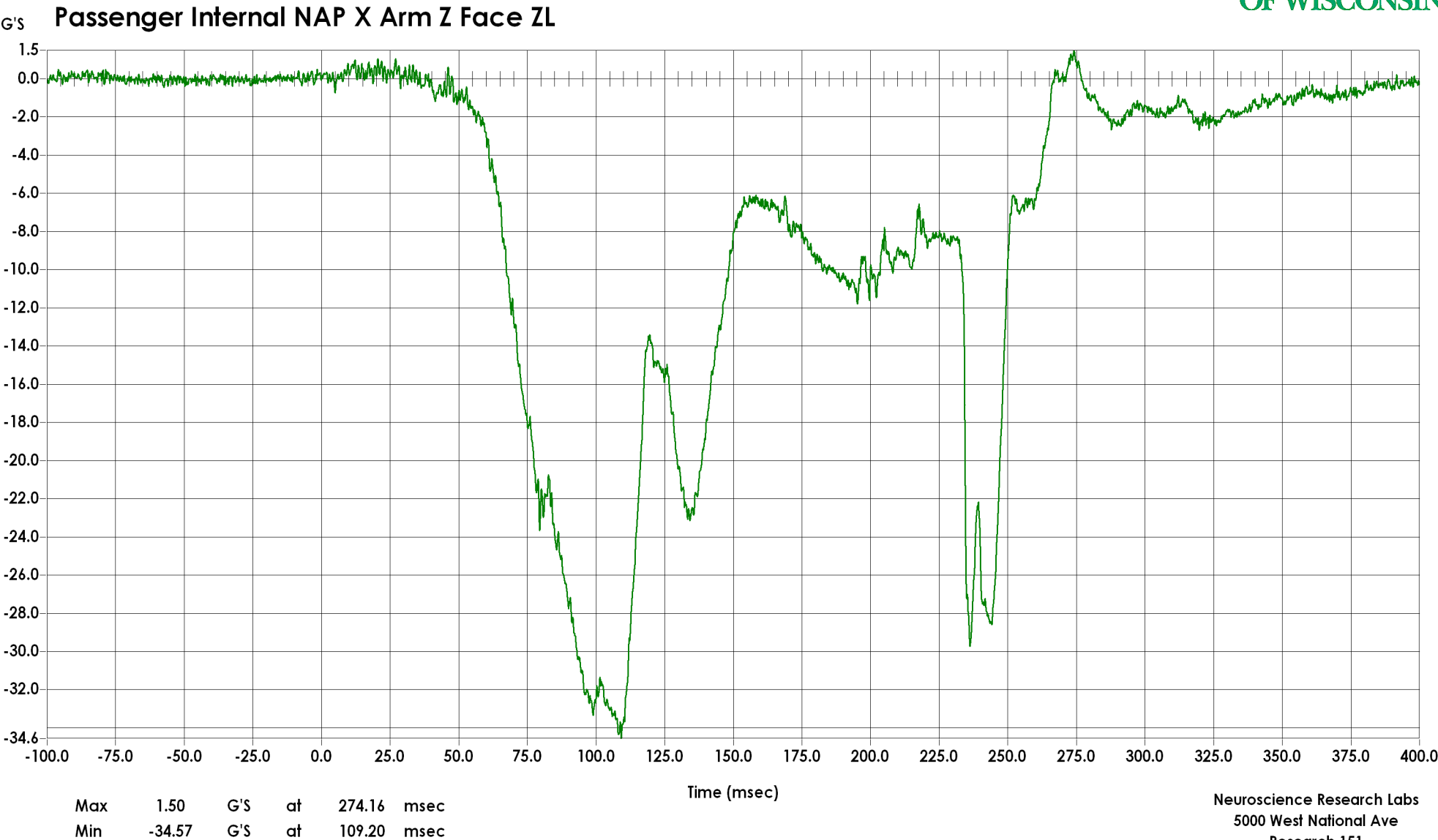


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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9X
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12138



Max 1.50 G's at 274.16 msec
Min -34.57 G's at 109.20 msec

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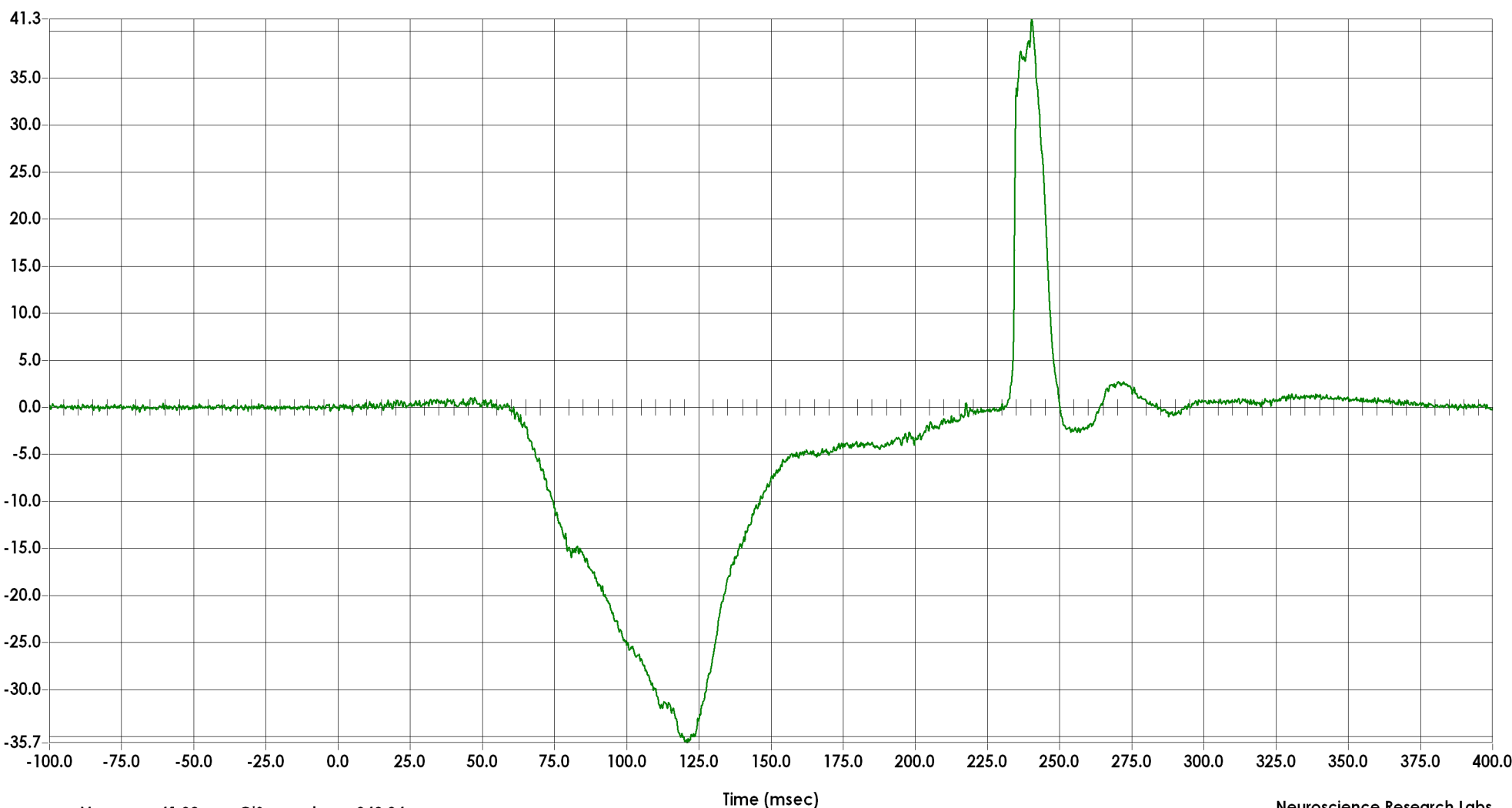
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9Y
Sensor Info ENDEVCO 7264C-2KTZ-2-360
Serial Number P59121



G'S Passenger Internal NAP Y Arm X Face XL



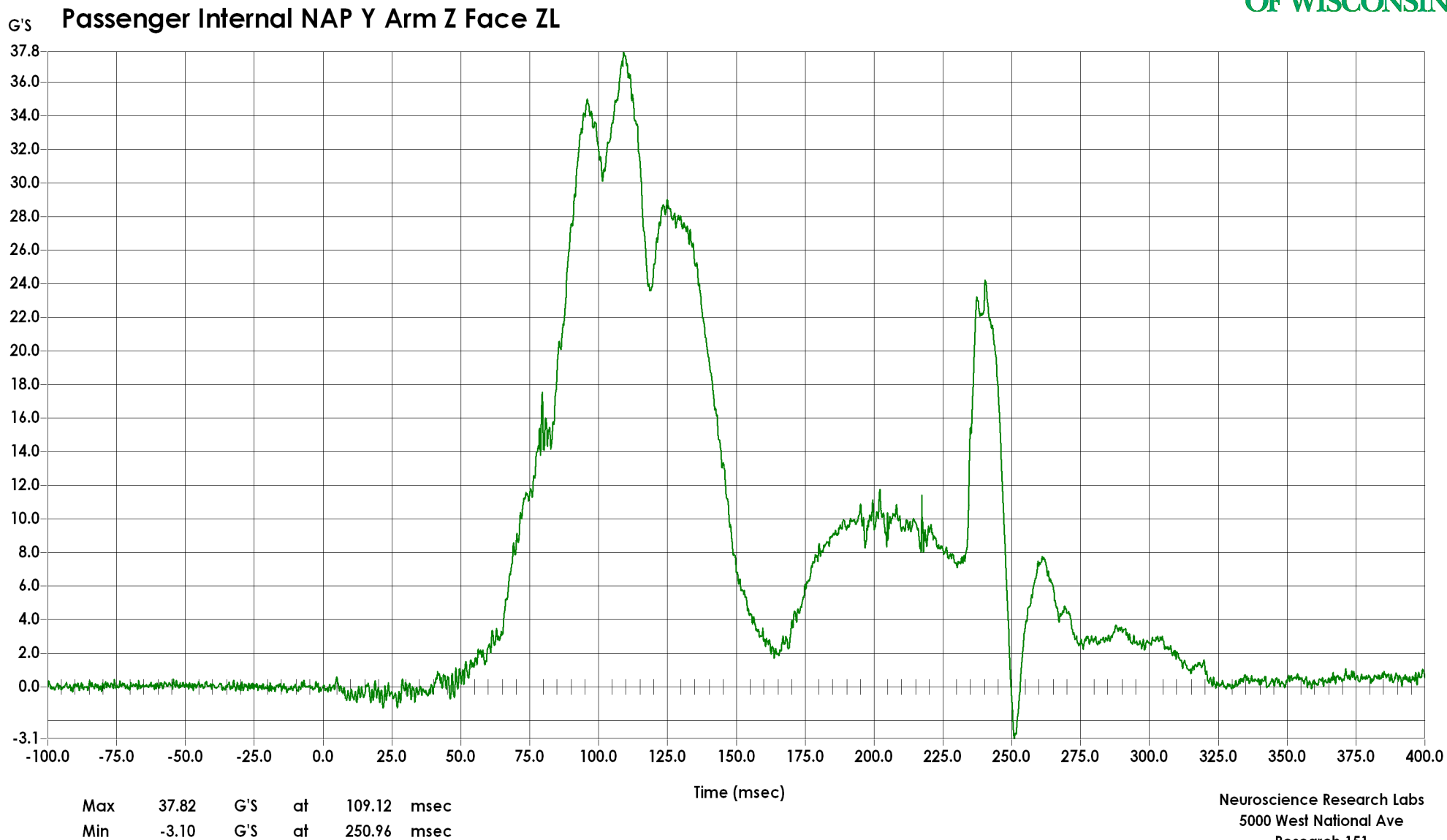
Max 41.28 G's at 240.24 msec
Min -35.68 G's at 120.96 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

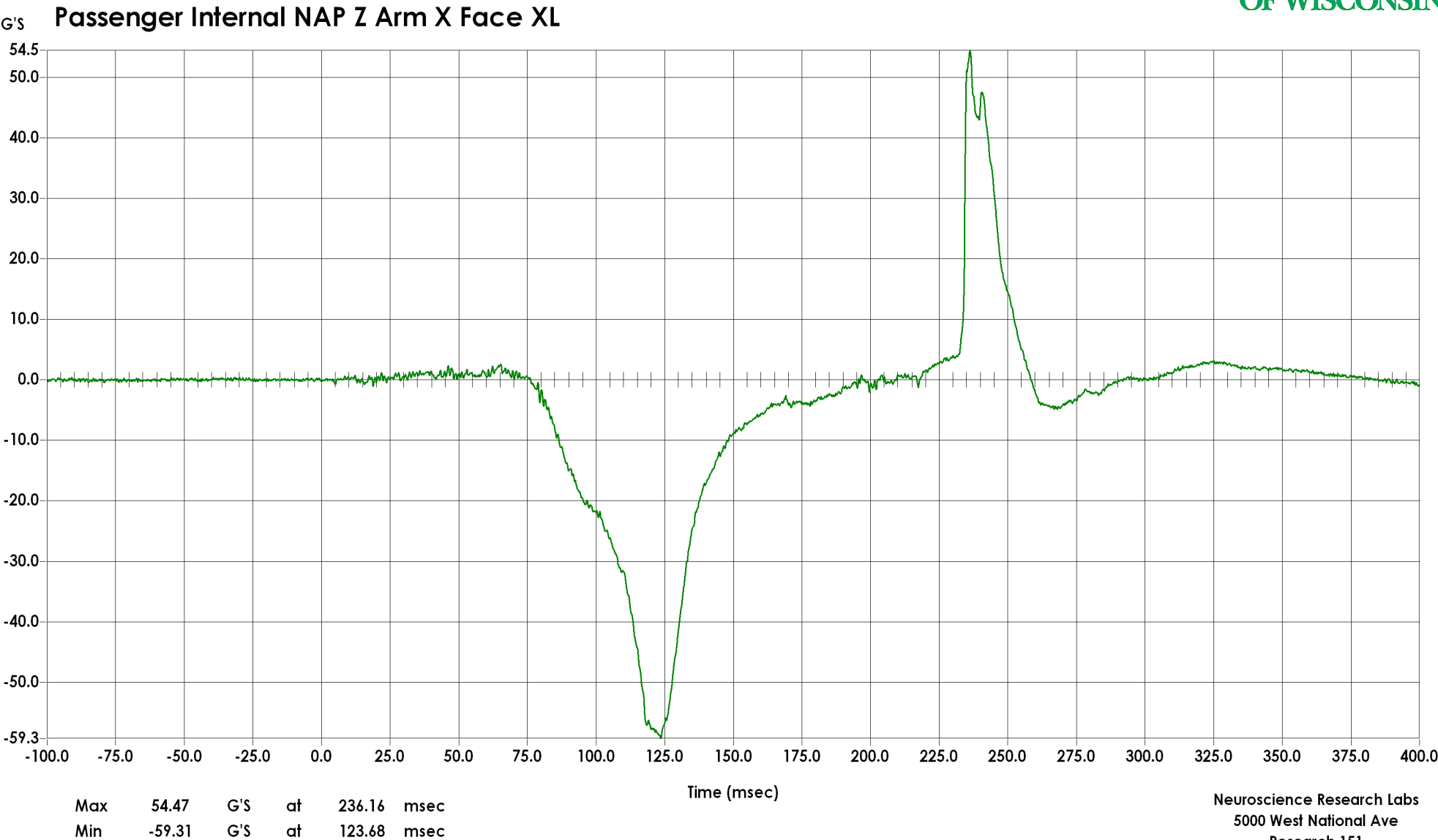
Sensor Location HD9Y
Sensor Info ENDEVCO 7264C-2KTZ-2-360
Serial Number P59123



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9Z
Sensor Info ENDEVCO 7264C-2KTZ-2-360
Serial Number P59118



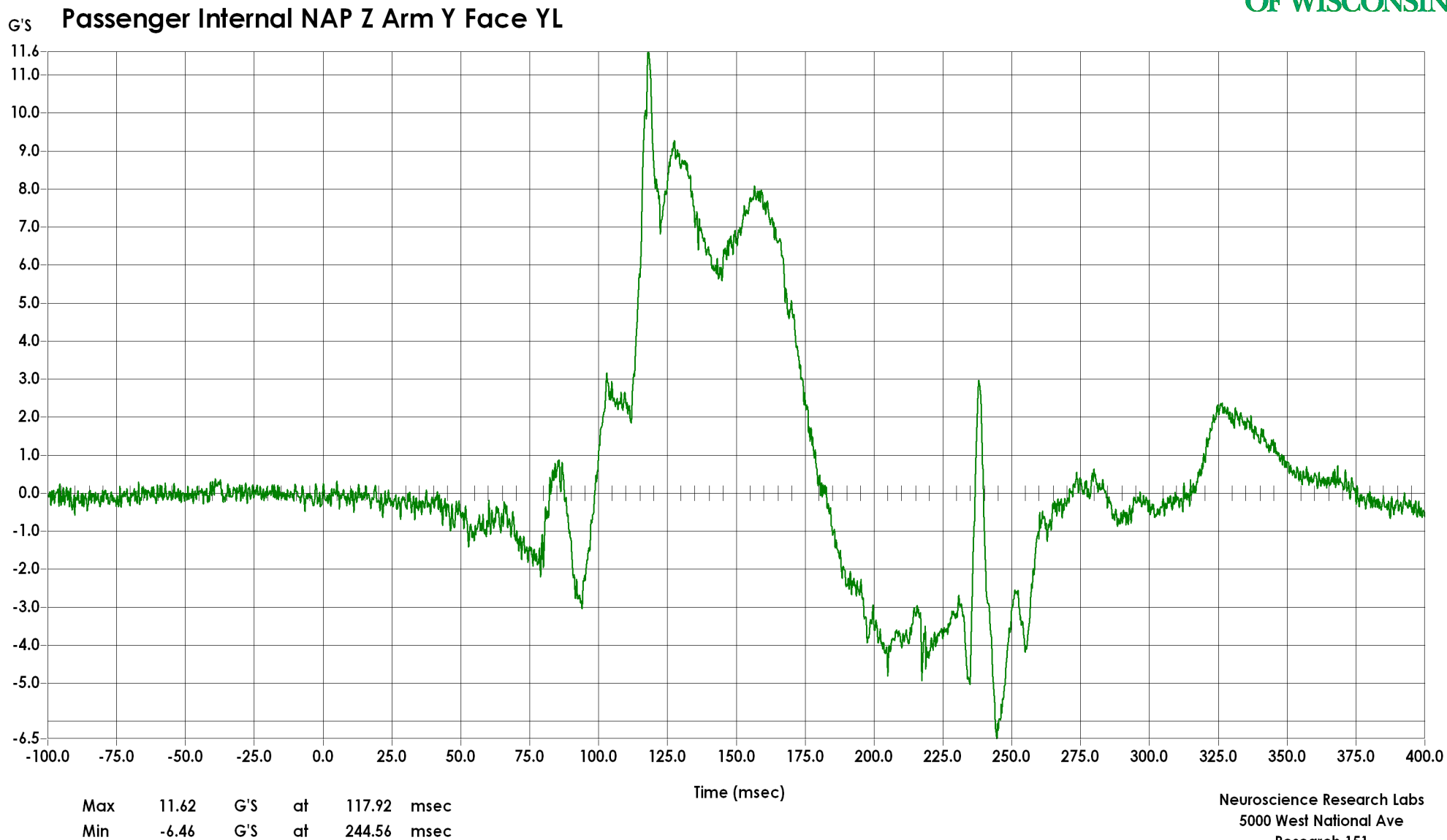
SOI002 Plot 063

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location HD9Z
Sensor Info ENDEVCO 7264C-2KTZ-2-360
Serial Number P59124



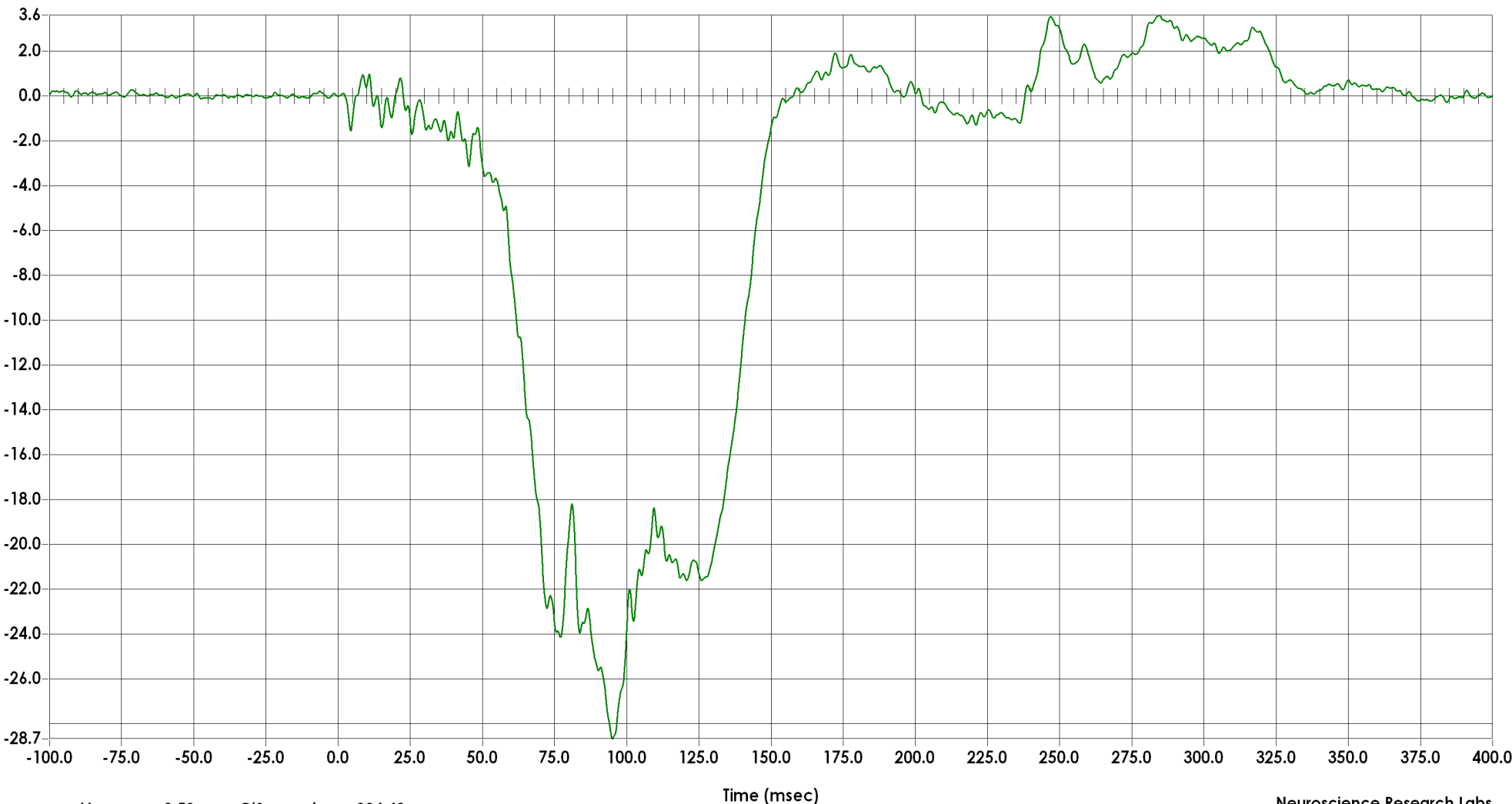
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12108



G'S Passenger T4 acceleration XL



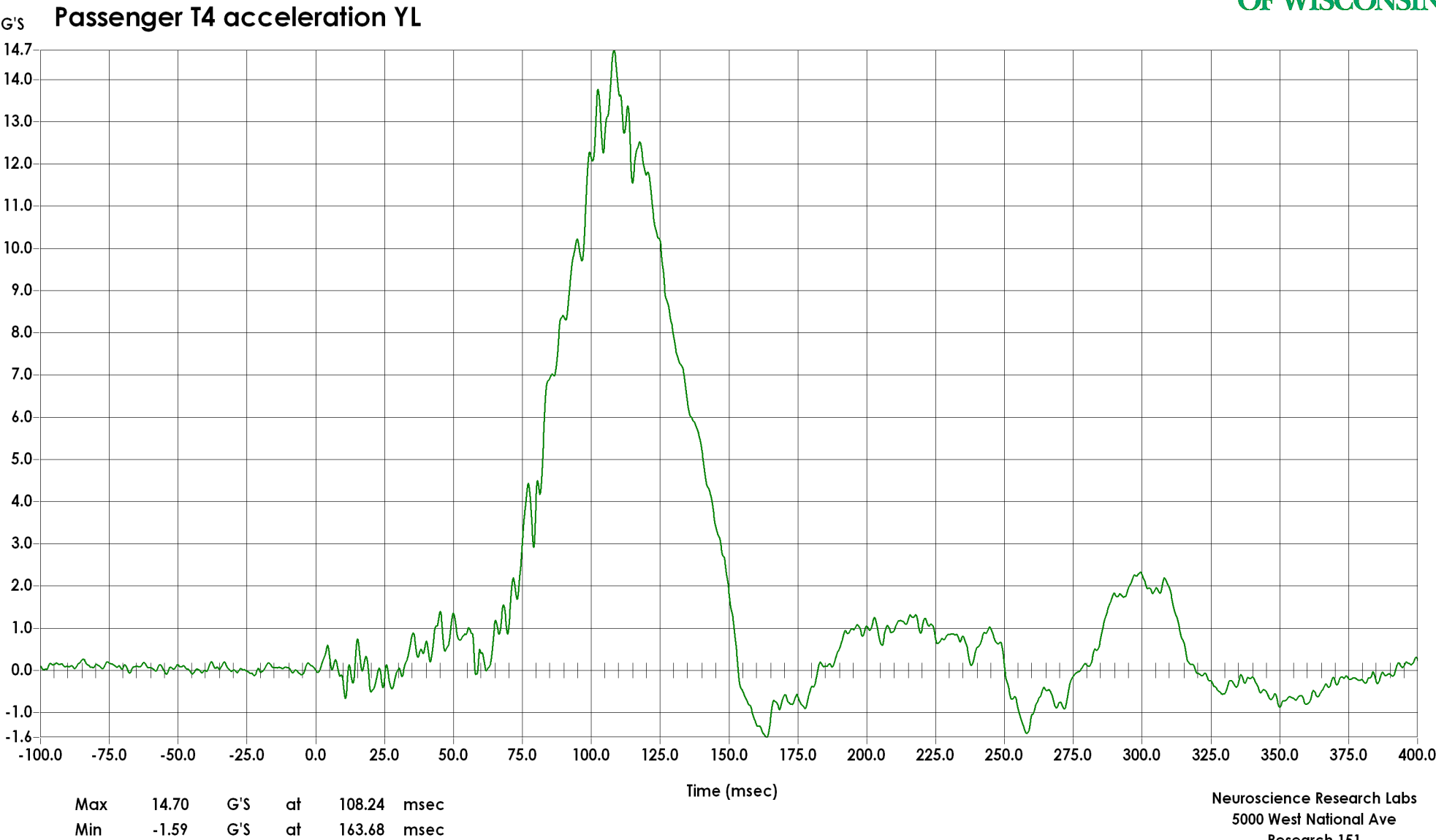
Max 3.59 G's at 284.48 msec
Min -28.67 G's at 95.04 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12106

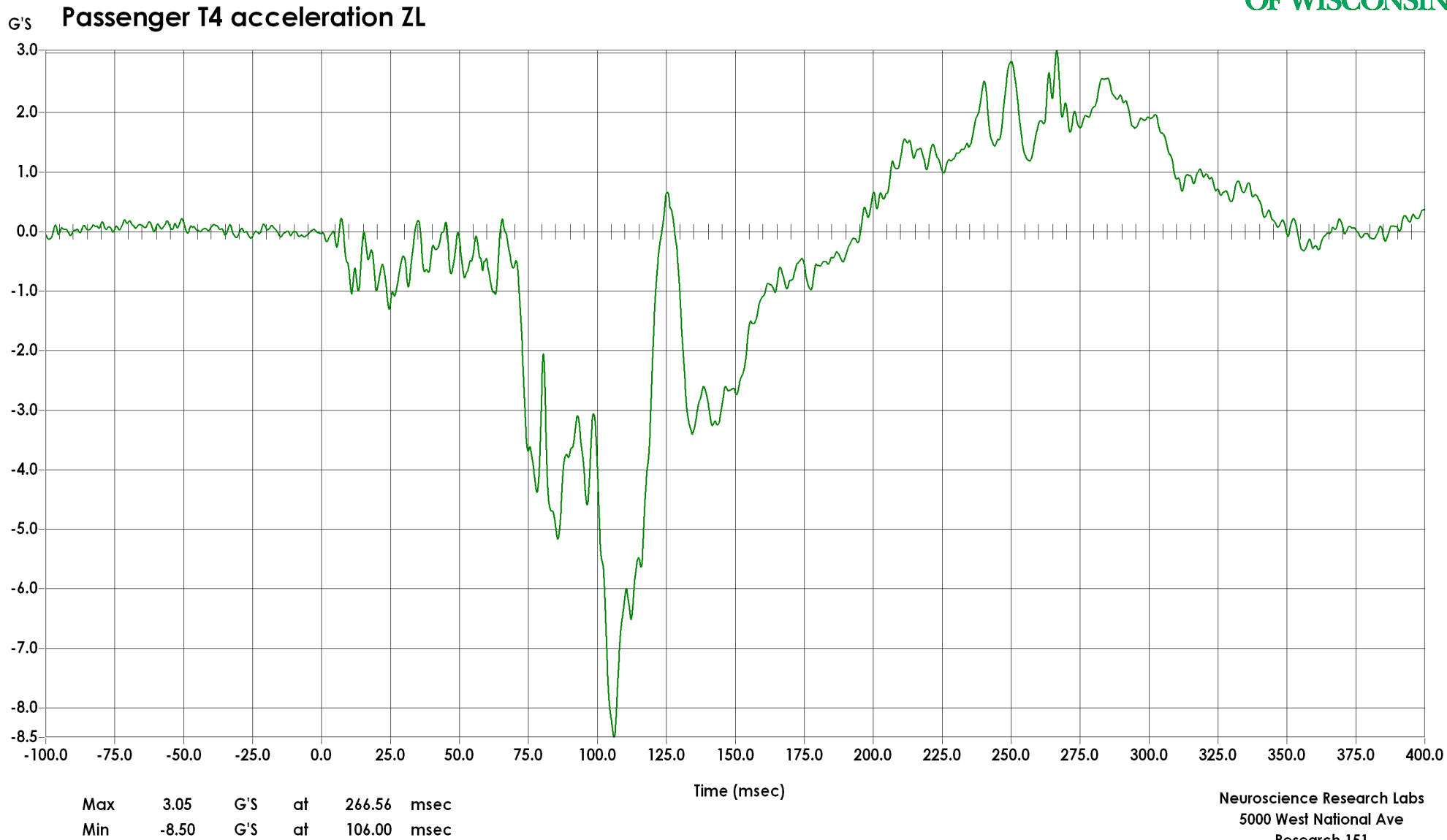


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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12109



Max 3.05 G's at 266.56 msec
Min -8.50 G's at 106.00 msec

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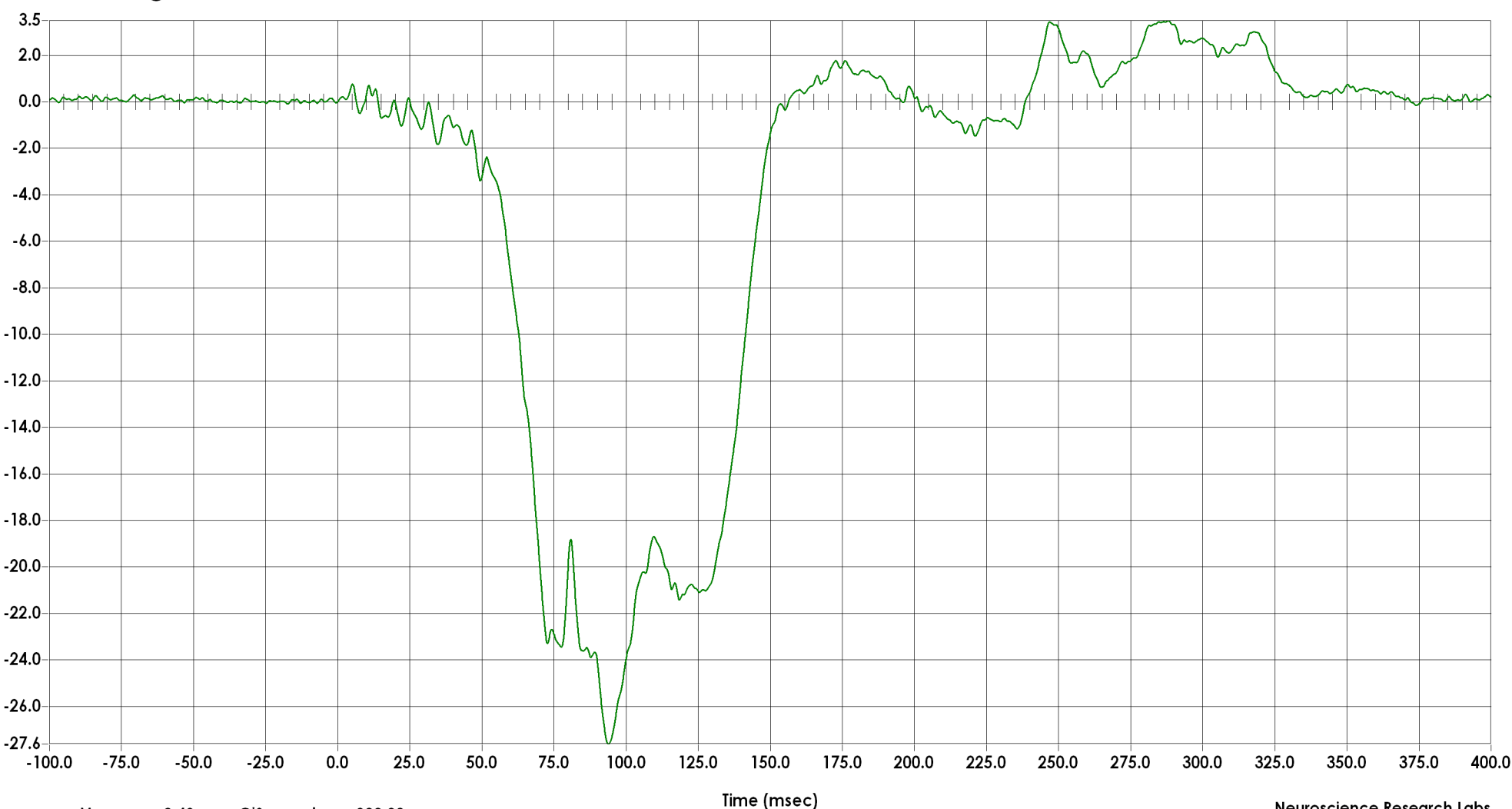
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12095



G'S Passenger Redundant T4 acceleration XL



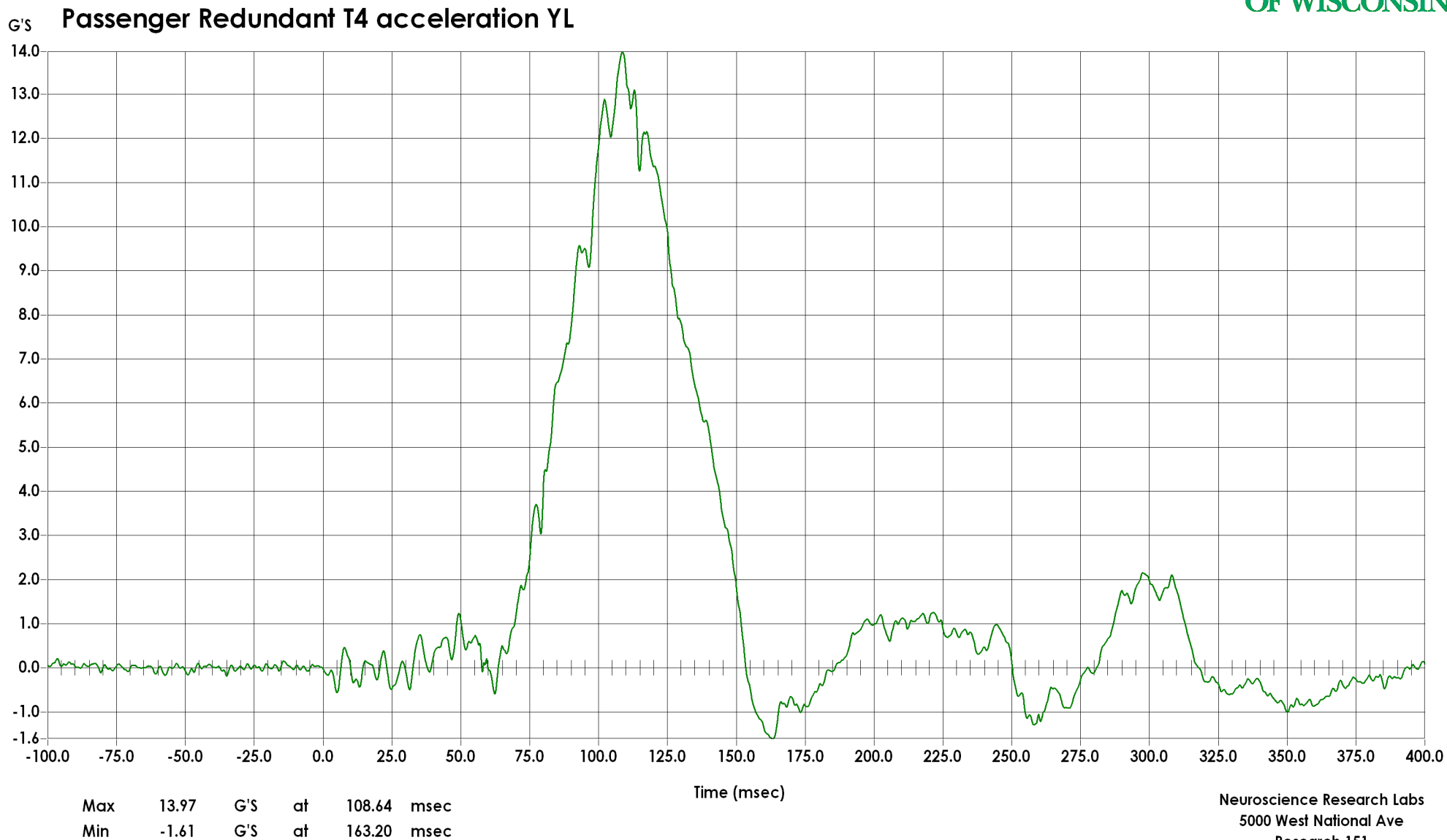
Max 3.49 G'S at 288.08 msec
Min -27.62 G'S at 93.92 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12114



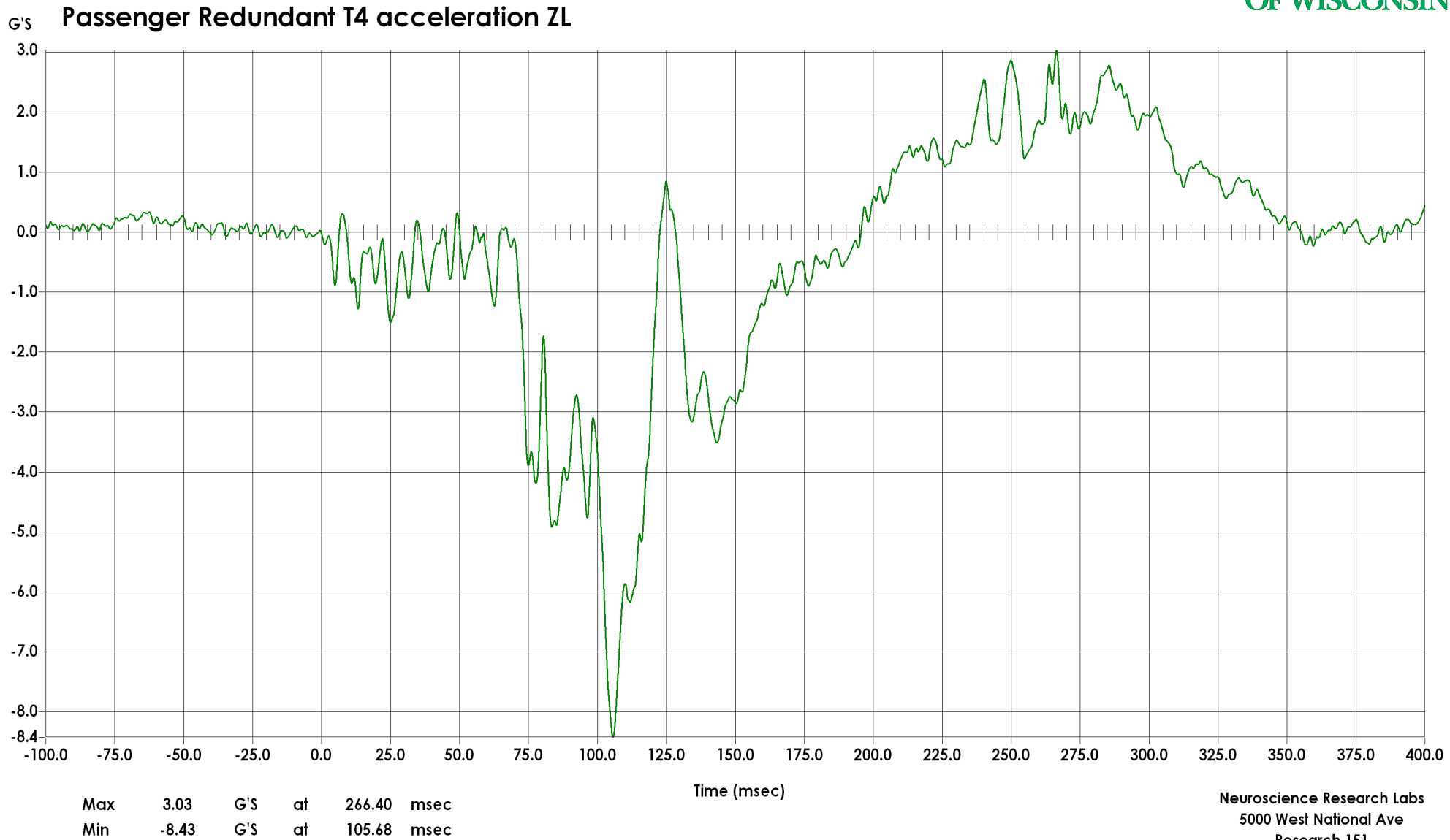
SOI002 Plot 069

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12113



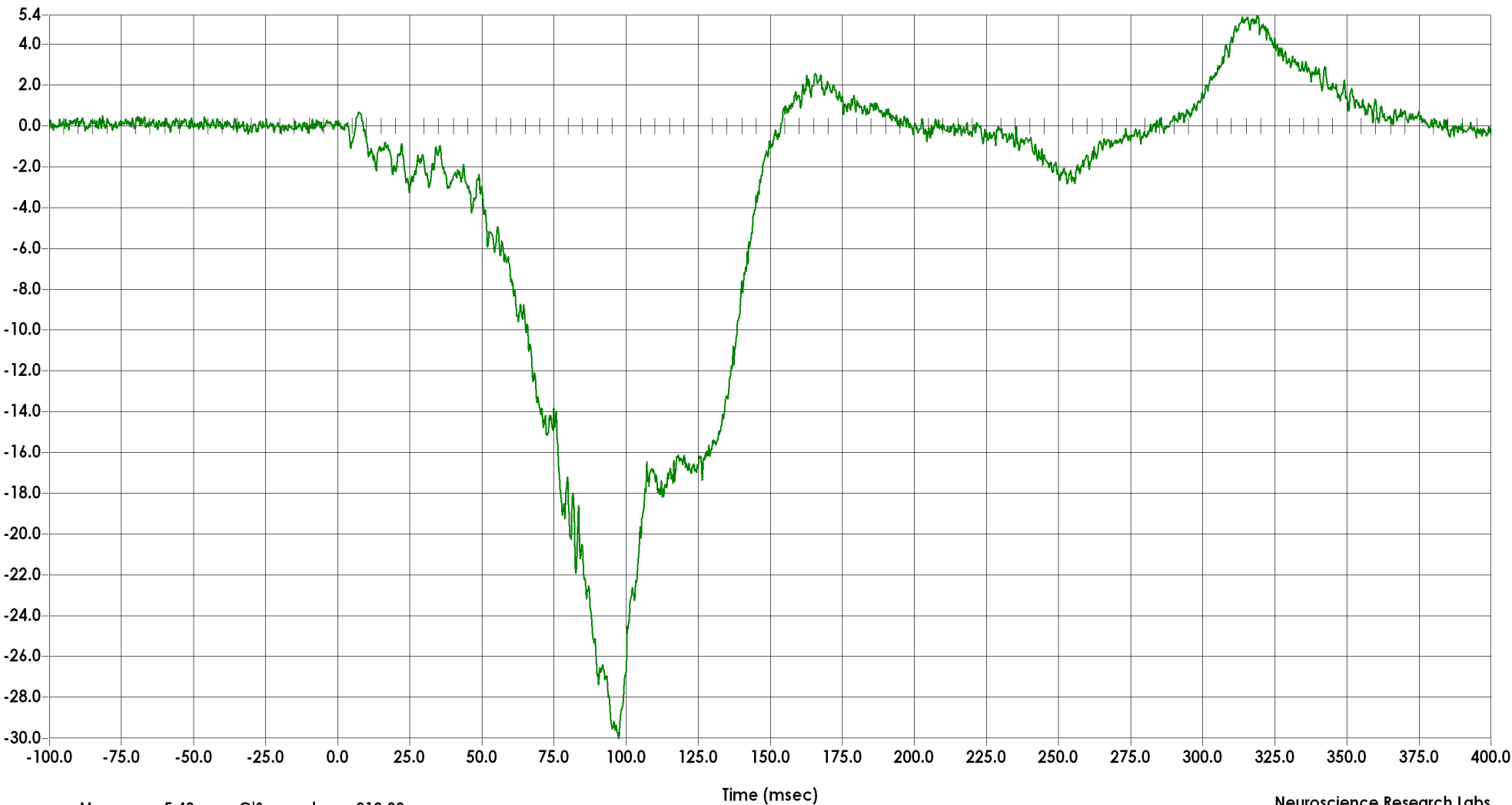
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVSA
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011338



G's Passenger Pelvis Acceleration XL



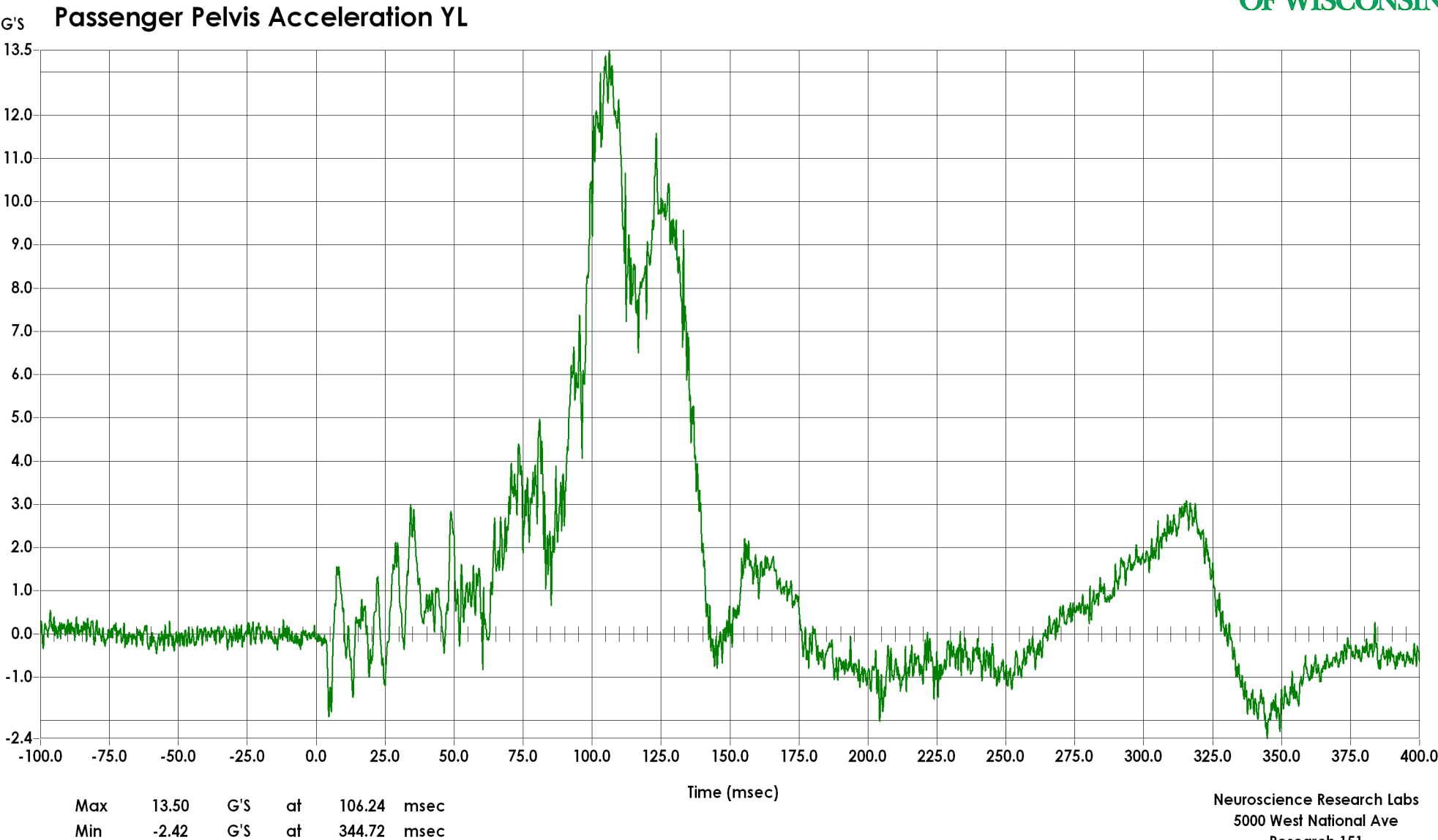
Max 5.43 G's at 318.88 msec
Min -30.02 G's at 97.44 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVSA
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011340



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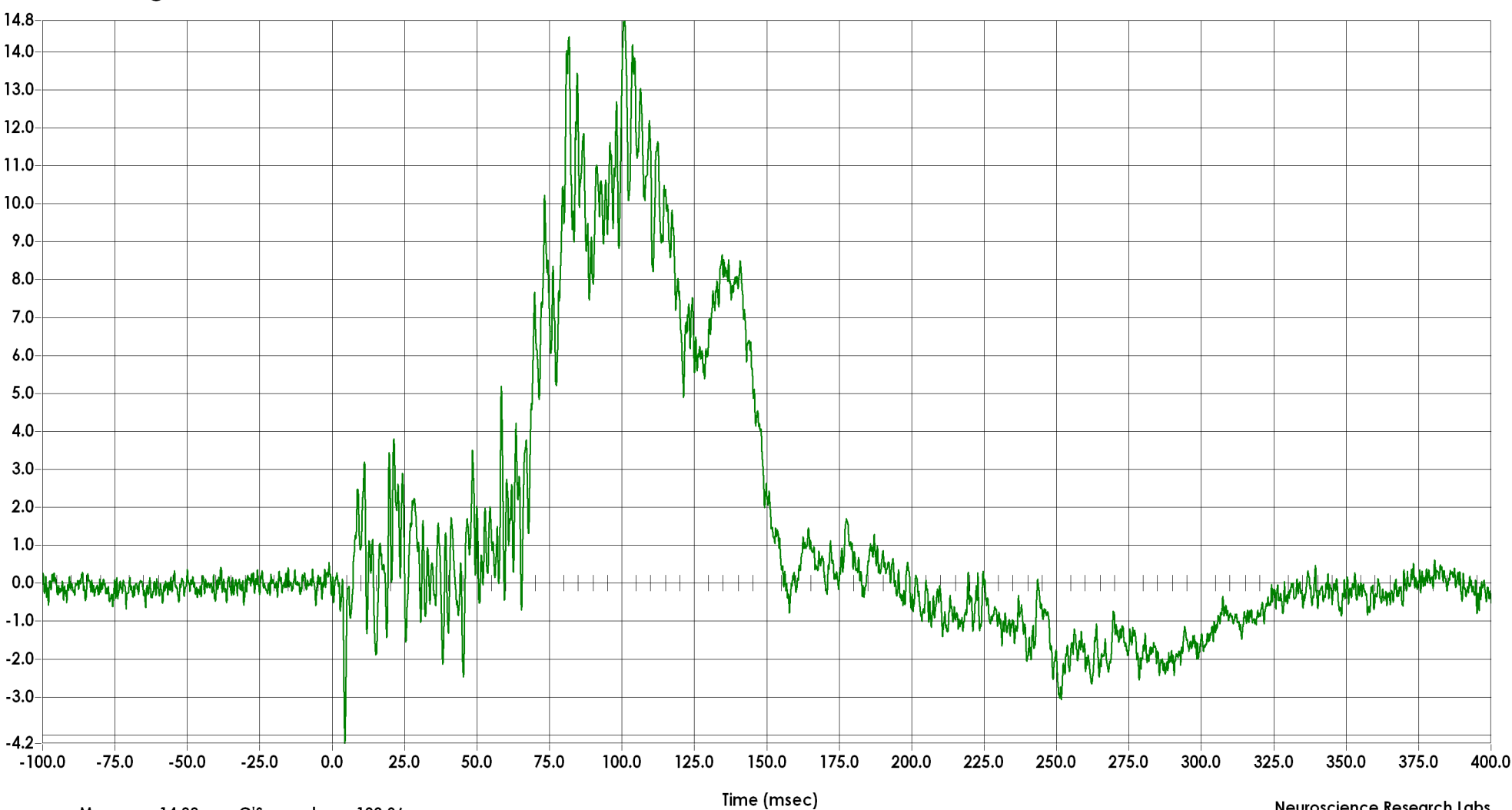
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVSA
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011342



G'S Passenger Pelvis Acceleration ZL



Max 14.83 G's at 100.96 msec
Min -4.22 G's at 4.40 msec

SOI002 Plot 073

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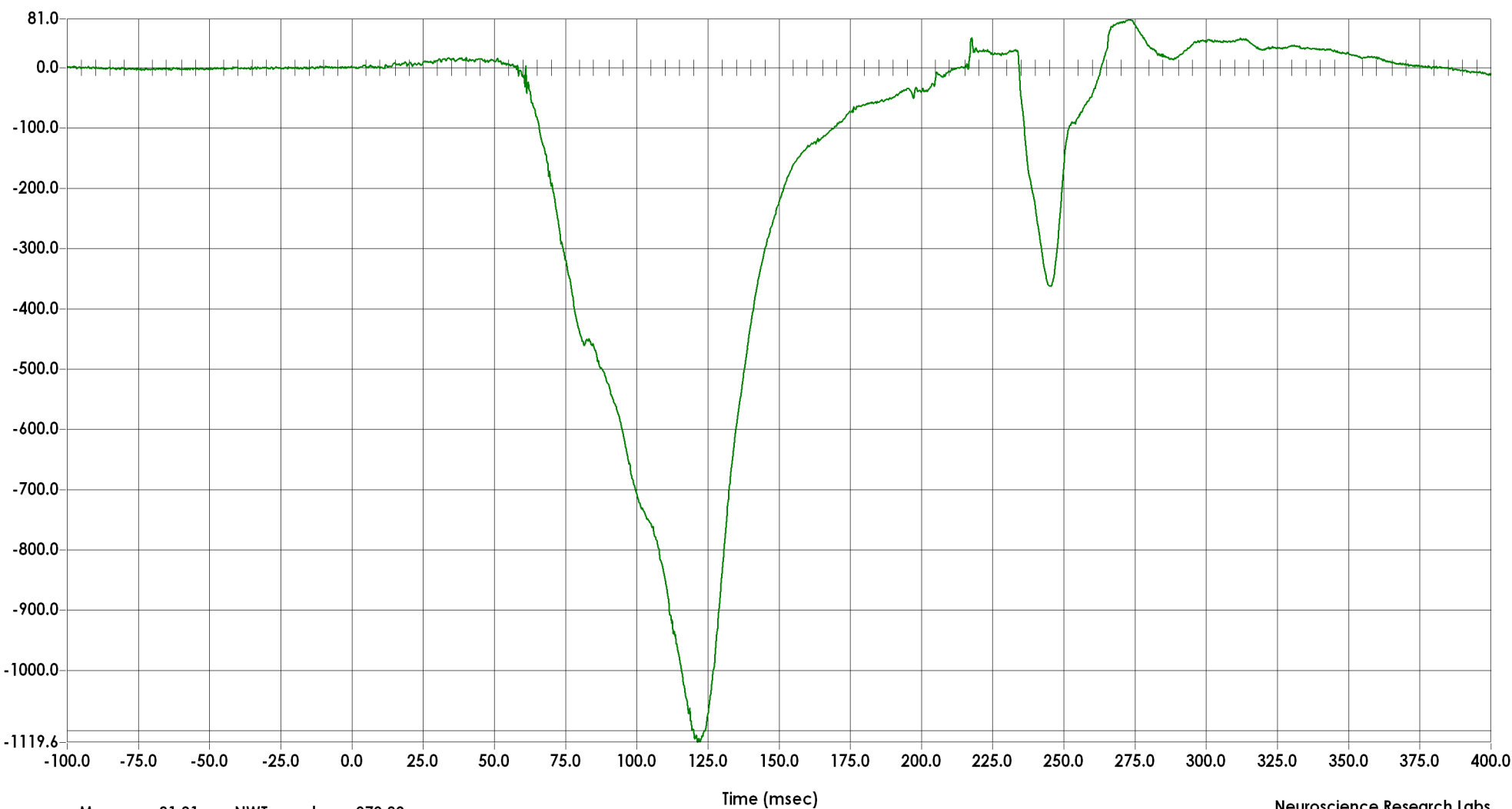
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info DENTON 1716A_1860
Serial Number 1716A_445_FX



NWT Passenger Upper Neck Loadcell FX



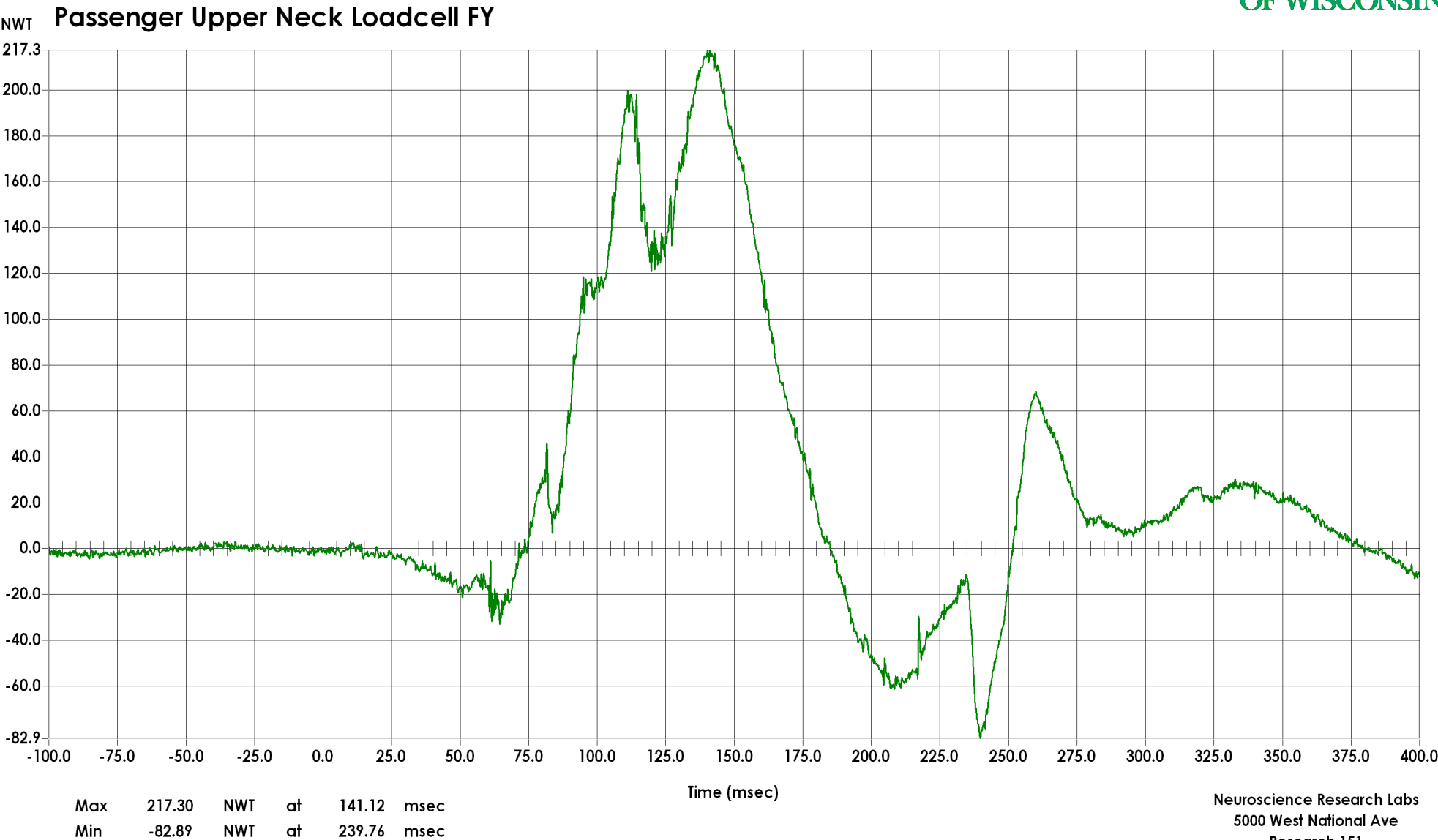
Max 81.01 NWT at 272.80 msec
Min -1119.56 NWT at 121.36 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info DENTON 1716A_1860
Serial Number 1716A_445_FY



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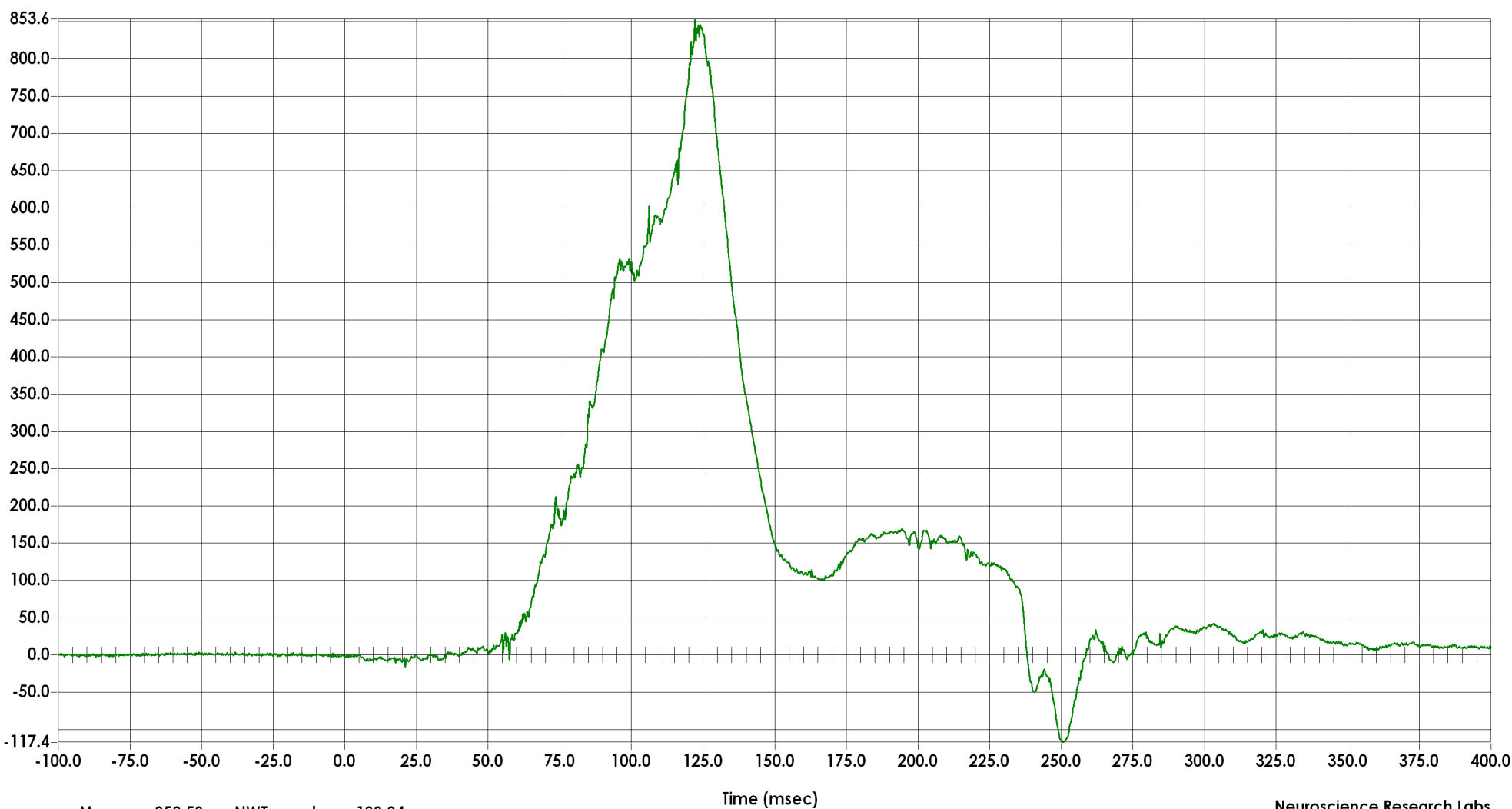
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info DENTON 1716A_1860
Serial Number 1716A_445_FZ



NWT Passenger Upper Neck Loadcell FZ



Max 853.59 NWT at 122.24 msec
Min -117.38 NWT at 250.64 msec

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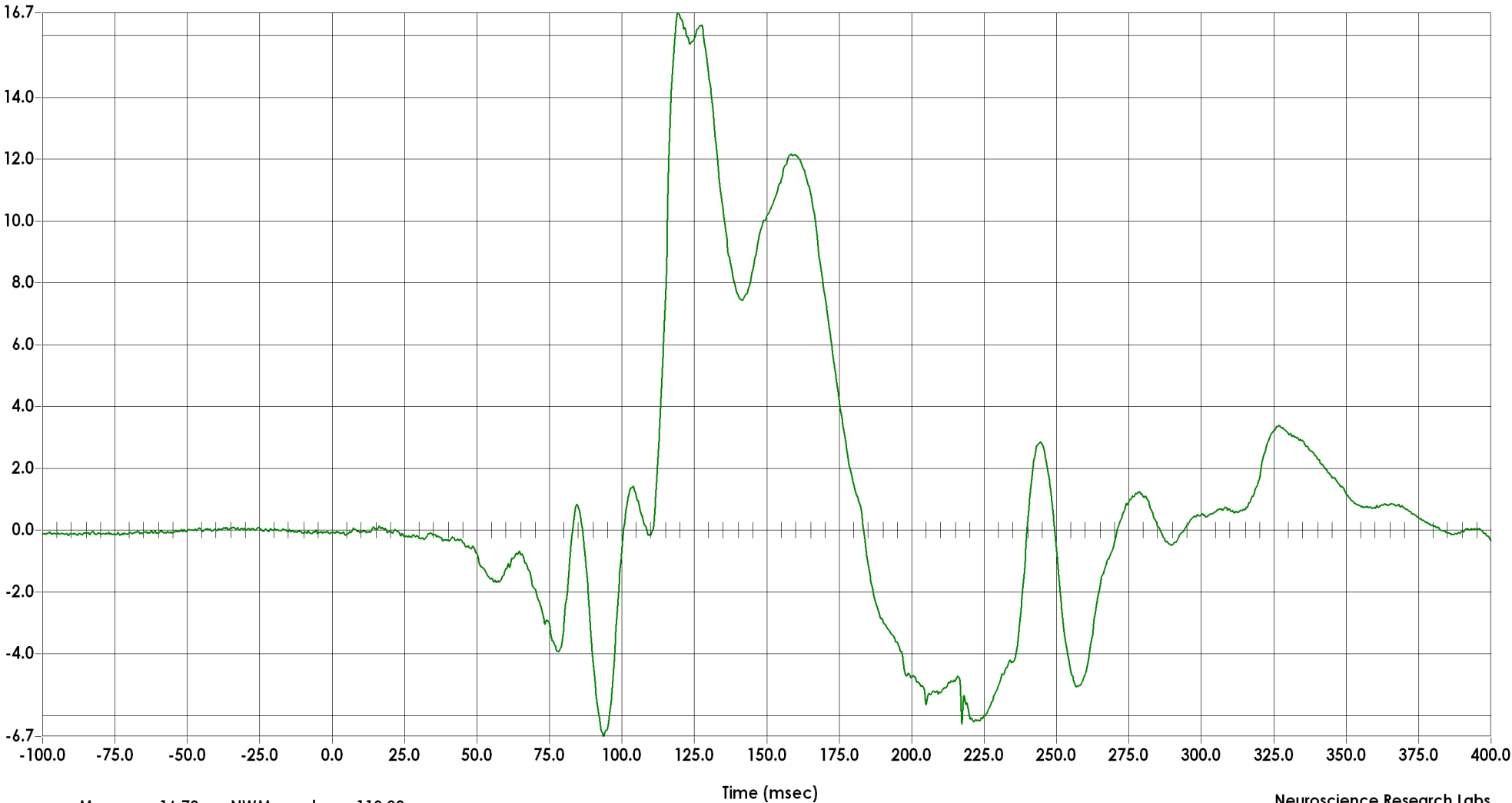
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info DENTON 1716A_1860
Serial Number 1716A_445_MX



NWM Passenger Upper Neck Loadcell MX



Max 16.73 NWM at 119.28 msec
Min -6.67 NWM at 93.60 msec

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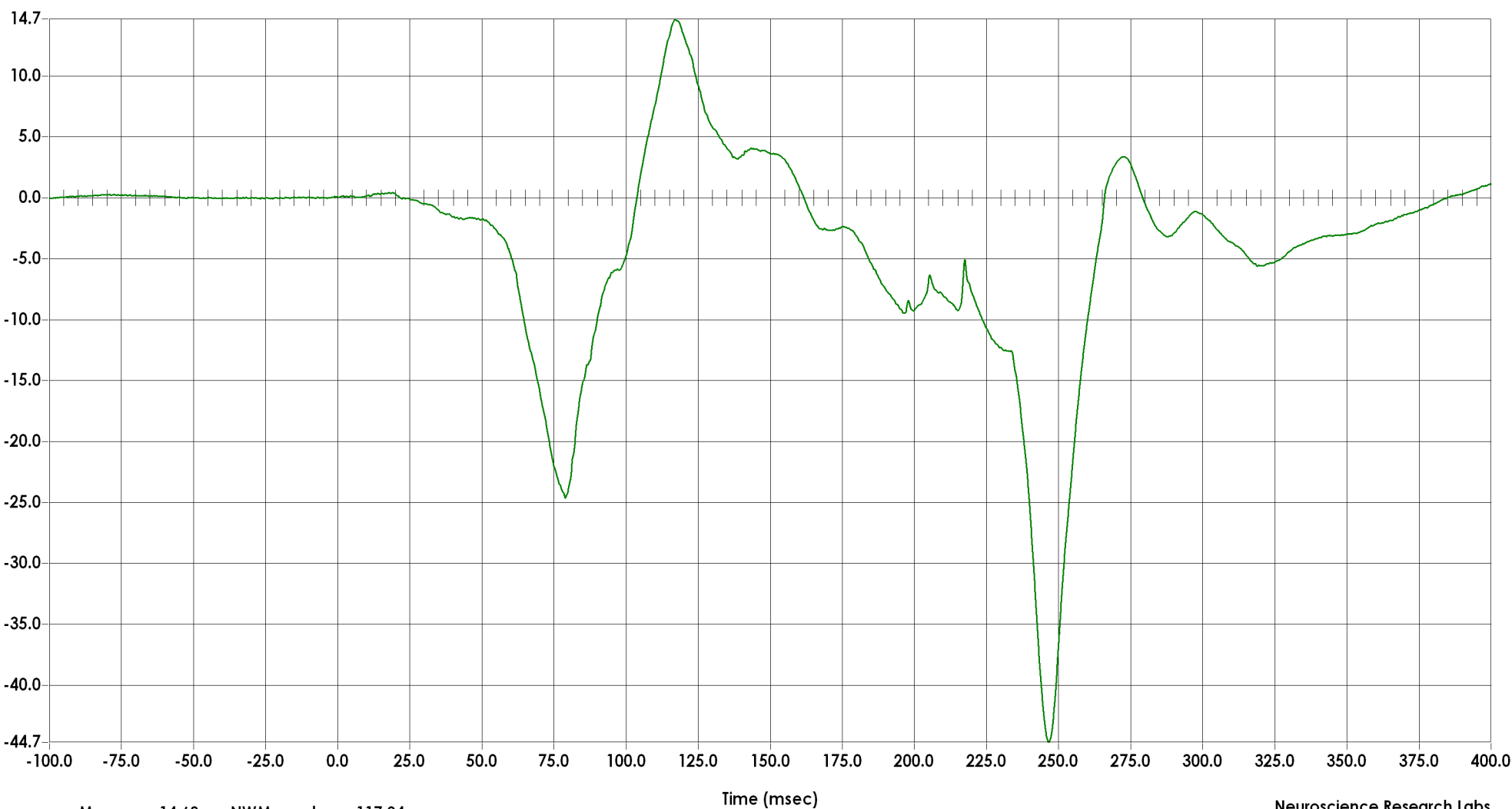
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info DENTON 1716A_1860
Serial Number 1716A_445_MY



NWM Passenger Upper Neck Loadcell MY



Max 14.68 NWM at 117.04 msec
Min -44.70 NWM at 246.56 msec

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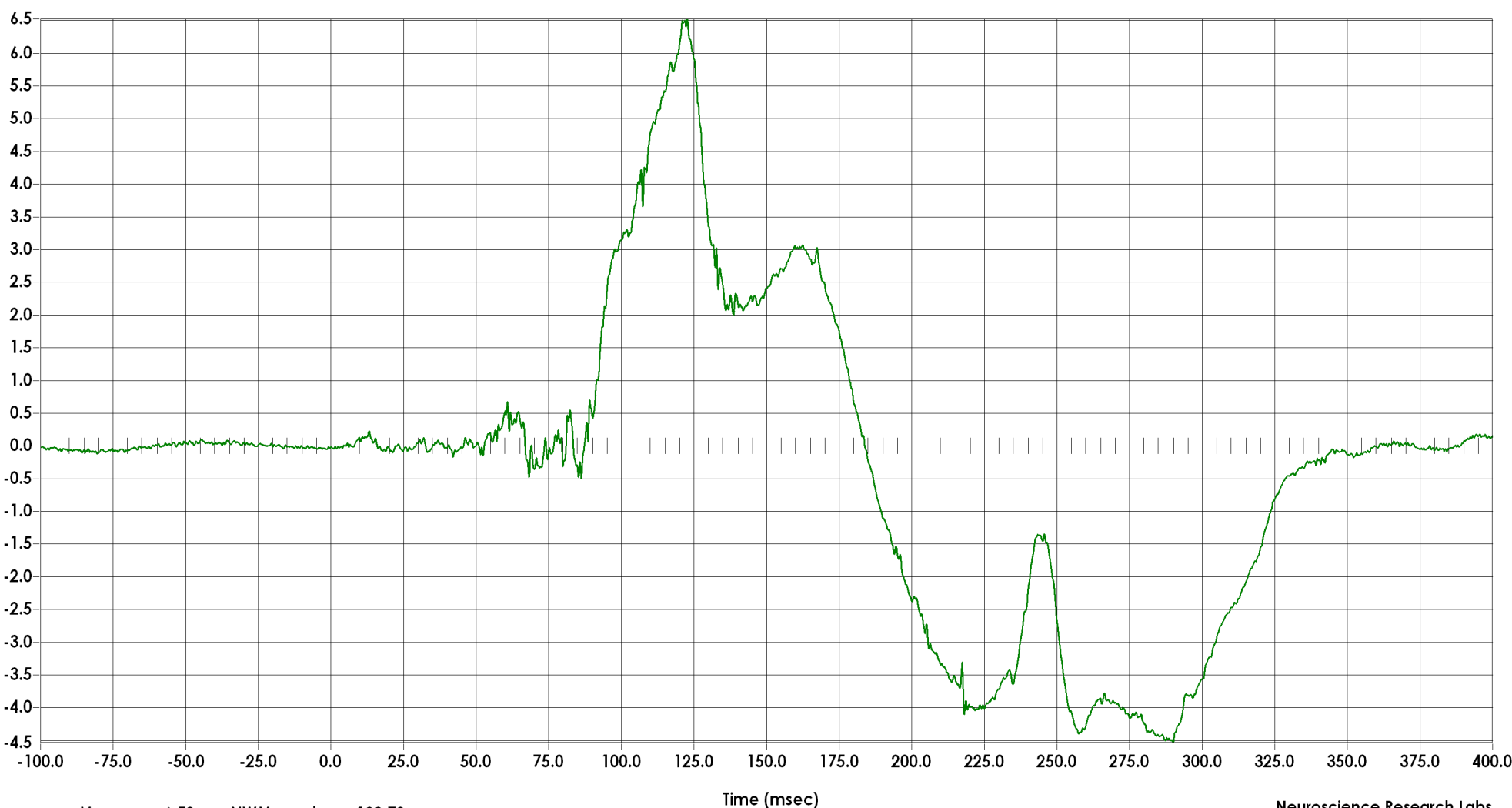
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info DENTON 1716A_1860
Serial Number 1716A_445_MZ



NWM Passenger Upper Neck Loadcell MZ



Max 6.52 NWM at 122.72 msec
Min -4.54 NWM at 290.00 msec

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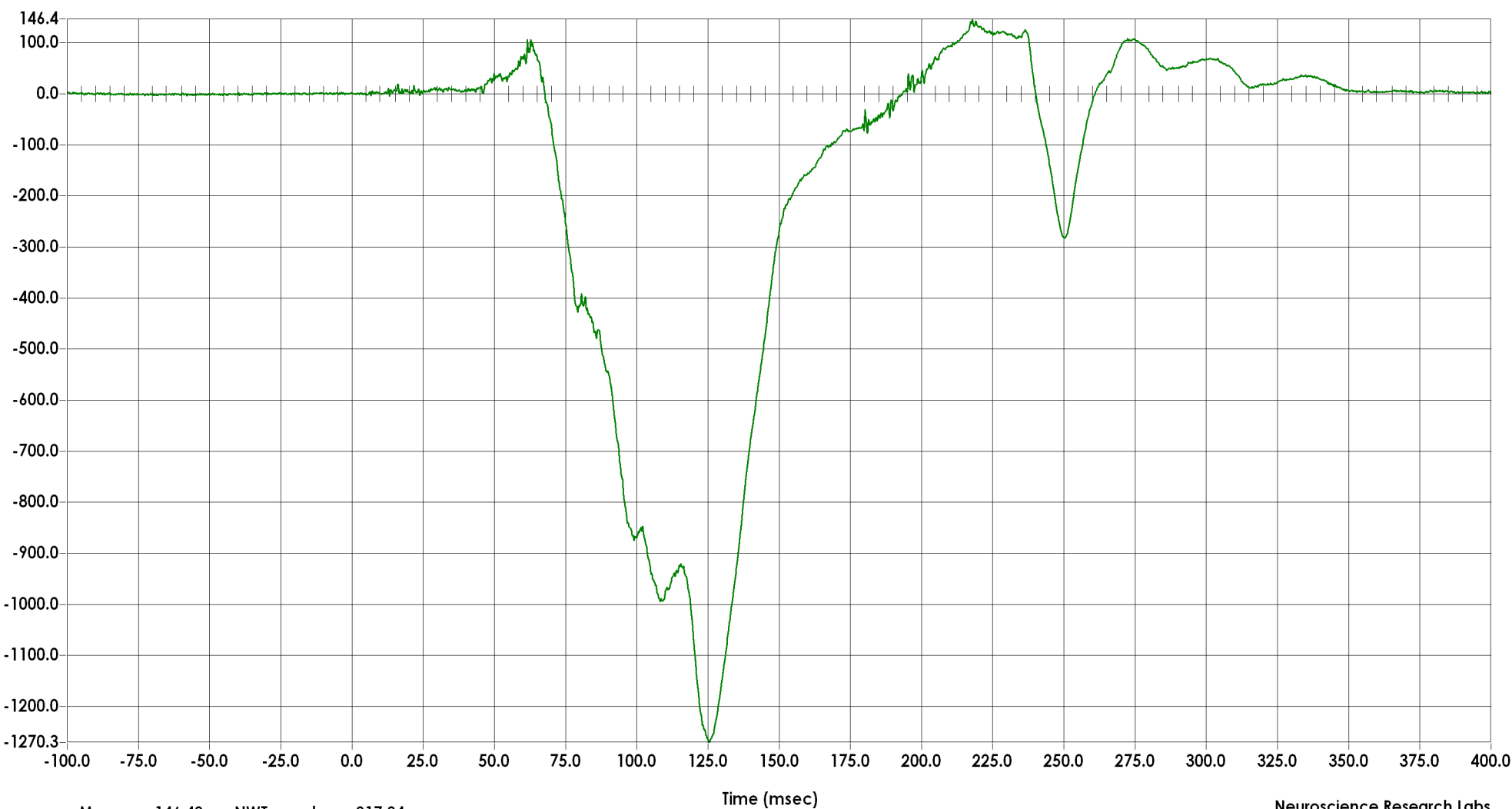
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 3251_2155
Serial Number 3251_2155_152_FX



NWT Passenger Lower Neck Loadcell XL



Max 146.42 NWT at 217.84 msec
Min -1270.30 NWT at 125.44 msec

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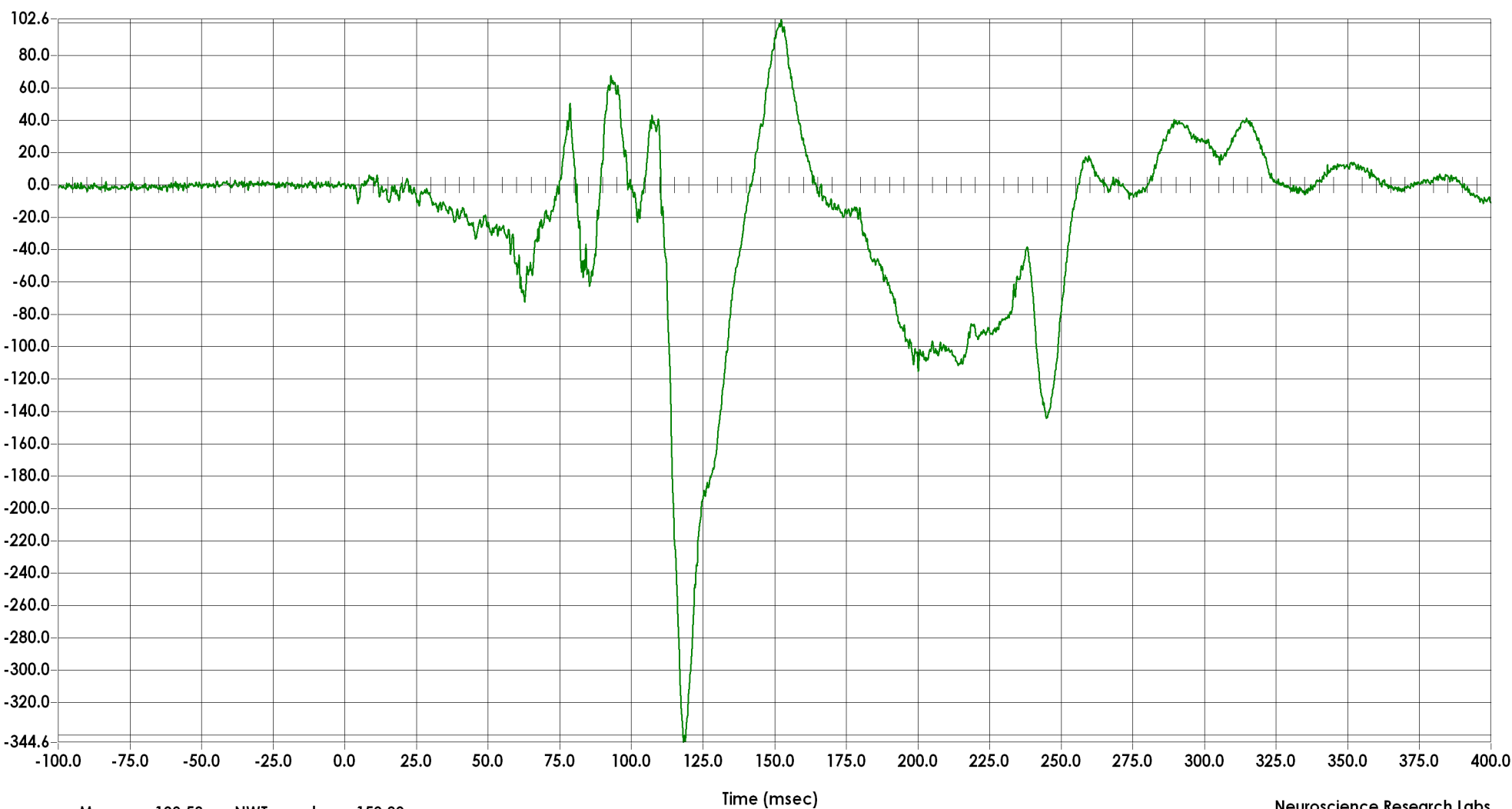
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 3251_2155
Serial Number 3251_2155_152_FY



NWT Passenger Lower Neck Loadcell YL



Max 102.58 NWT at 152.32 msec
Min -344.63 NWT at 118.16 msec

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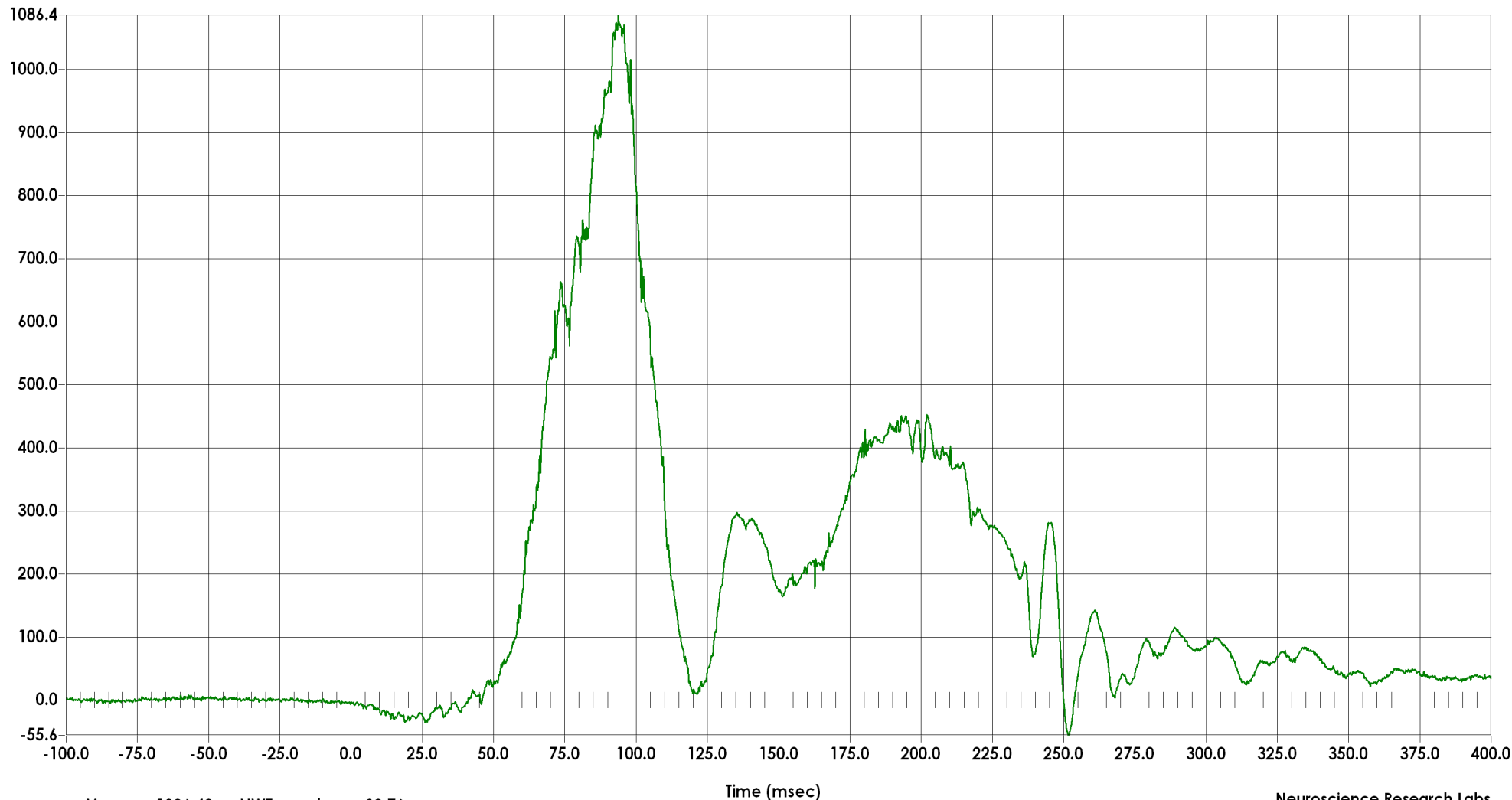
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 3251_2155
Serial Number 3251_2155_152_FZ



NWT Passenger Lower Neck Loadcell ZL



Max 1086.43 NWT at 93.76 msec
Min -55.59 NWT at 251.60 msec

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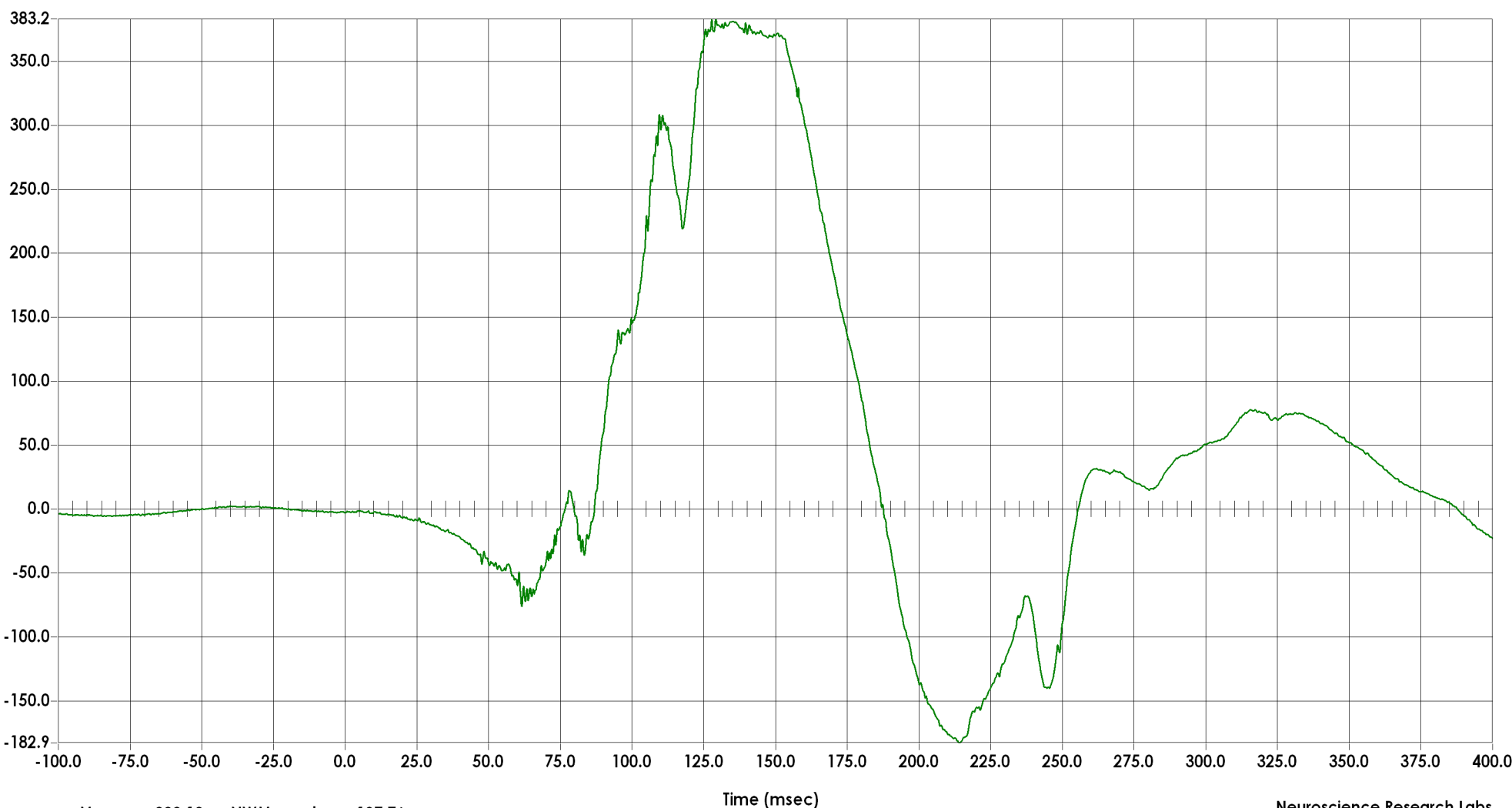
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 3251_2155
Serial Number 3251_2155_152_MX



NWM Passenger Lower Neck Loadcell XL



Max 383.18 NWM at 127.76 msec
Min -182.86 NWM at 214.16 msec

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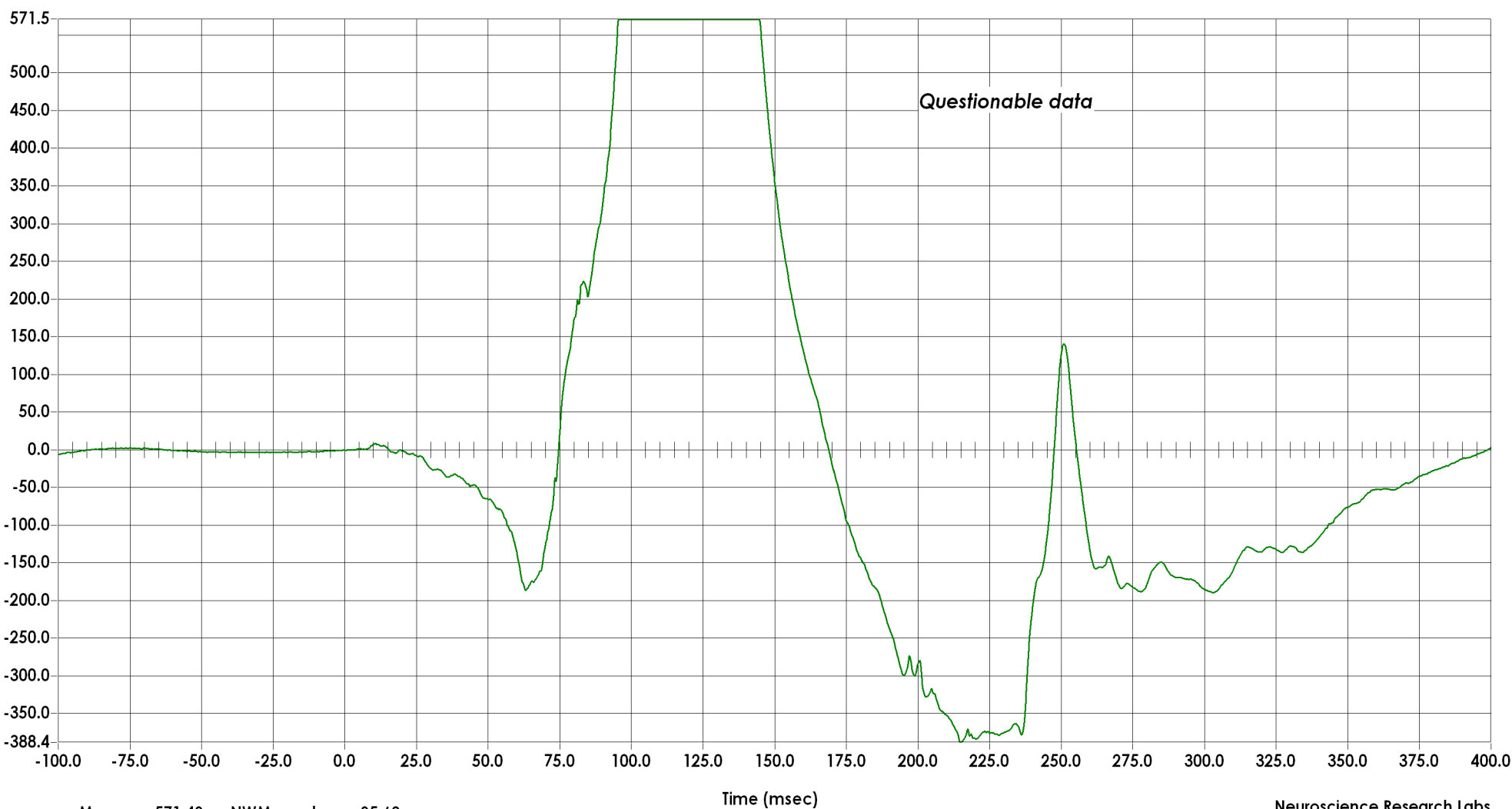
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 3251_2155
Serial Number 3251_2155_152_MY



NWM Passenger Lower Neck Loadcell YL



Max 571.49 NWM at 95.60 msec
Min -388.36 NWM at 214.88 msec

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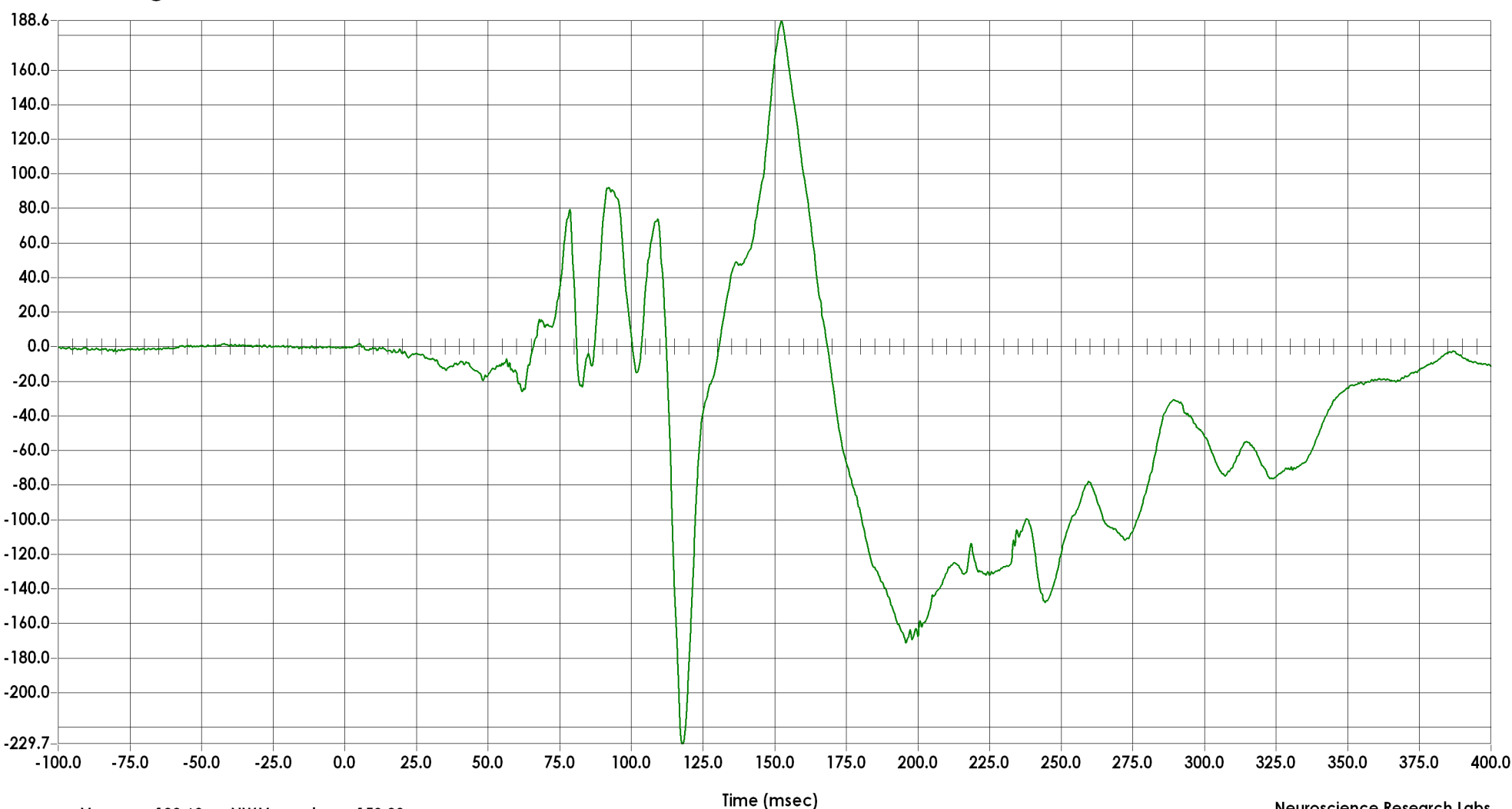
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 3251_2155
Serial Number 3251_2155_152_MZ



NWM Passenger Lower Neck Loadcell ZL



Max 188.62 NWM at 152.32 msec
Min -229.68 NWM at 117.84 msec

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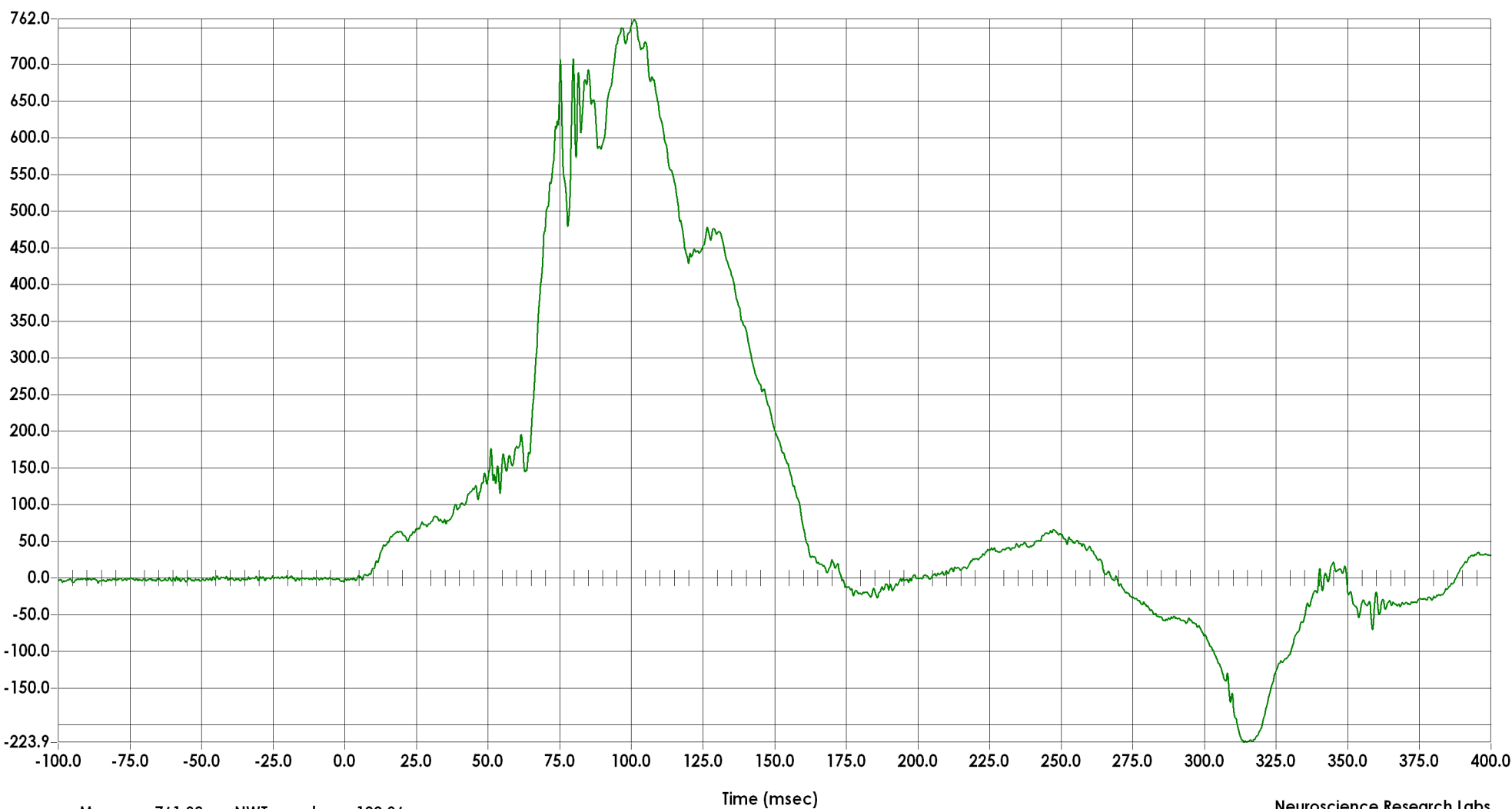
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRL
Sensor Info Denton 2121A
Serial Number 2121A_257



NWT Passenger Left Femur Loadcell ZL



Max 761.98 NWT at 100.96 msec
Min -223.87 NWT at 313.76 msec

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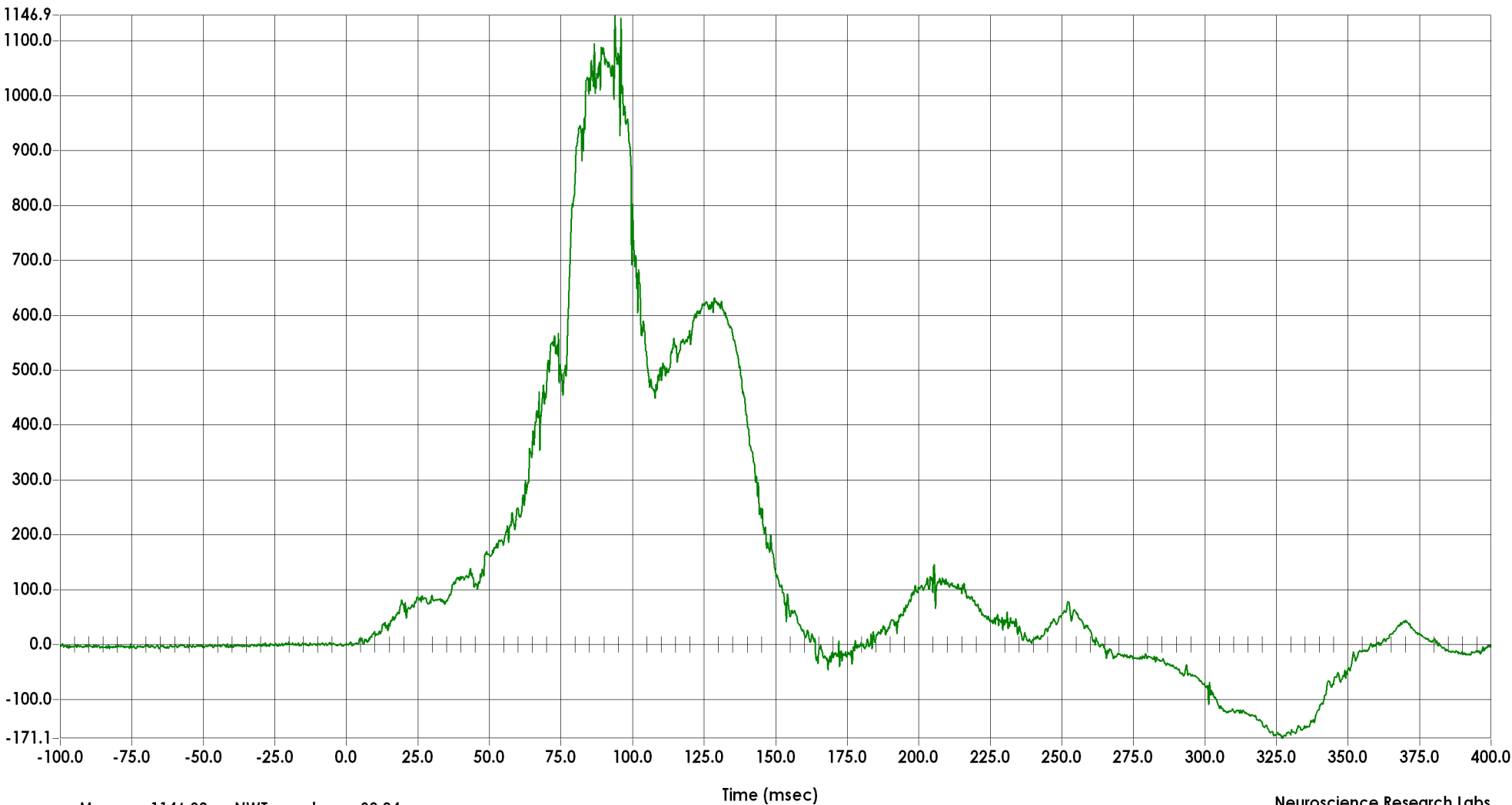
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRR
Sensor Info Denton 2121
Serial Number 2121_255



NWT Passenger Right Femur Loadcell ZL



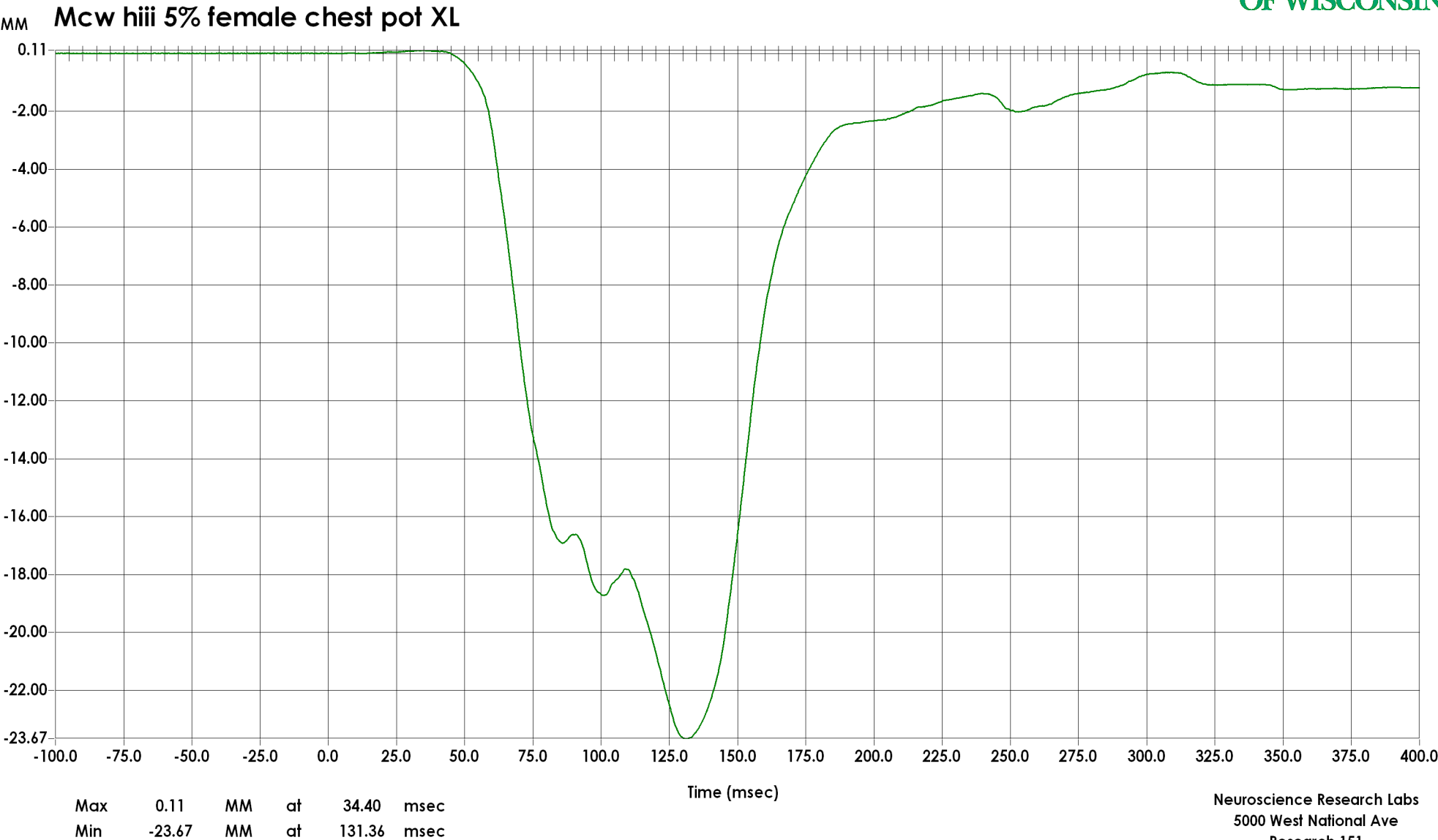
Max 1146.90 NWT at 93.84 msec
Min -171.14 NWT at 327.04 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHST
Sensor Info DENTON 14CB1-2897
Serial Number CST421



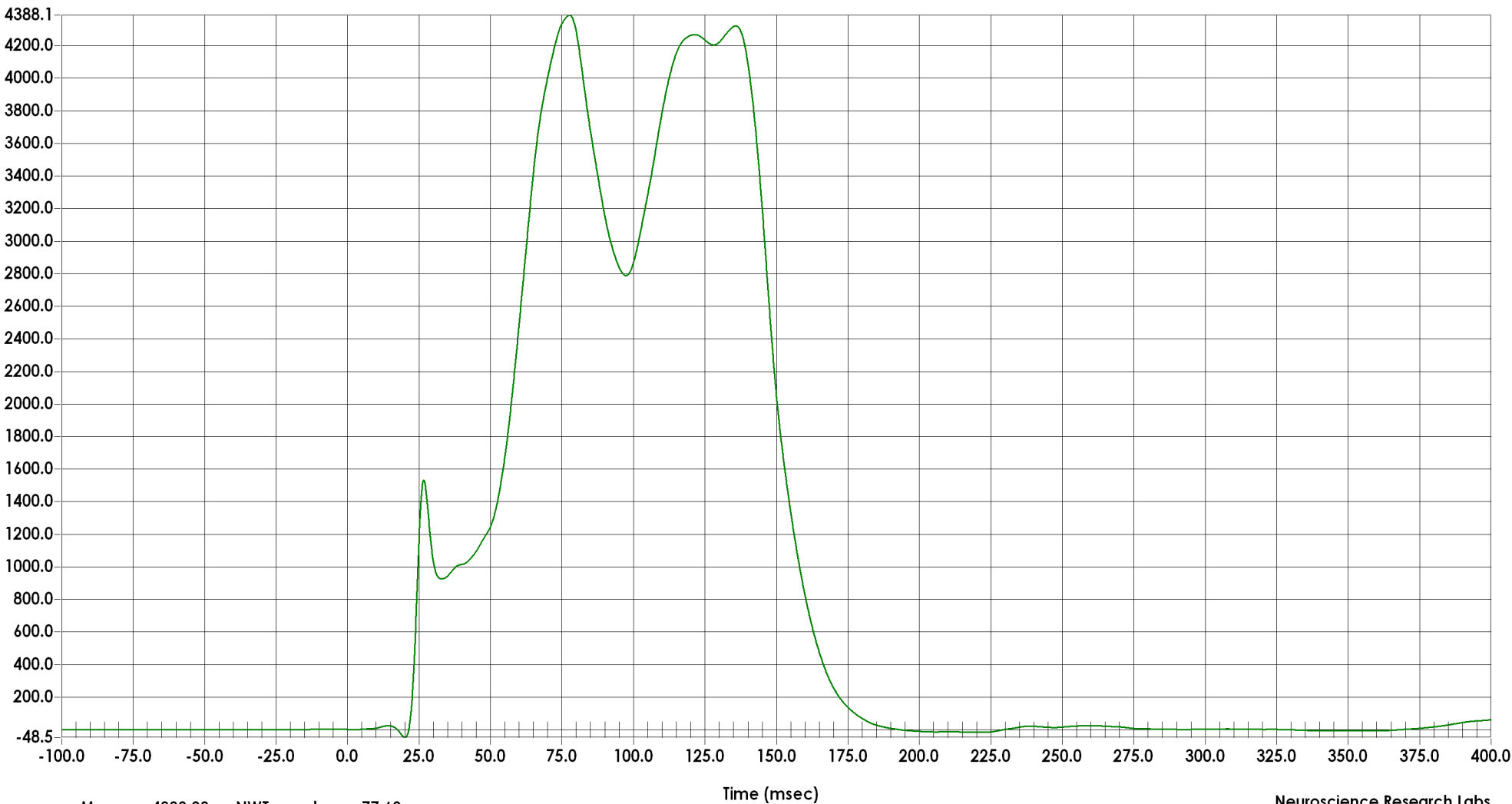
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SHBT
Sensor Info DENTON 1910
Serial Number 1910_164



NWT Driver Shoulder Belt Loadcell YG



Max 4388.08 NWT at 77.60 msec
Min -48.45 NWT at 20.08 msec

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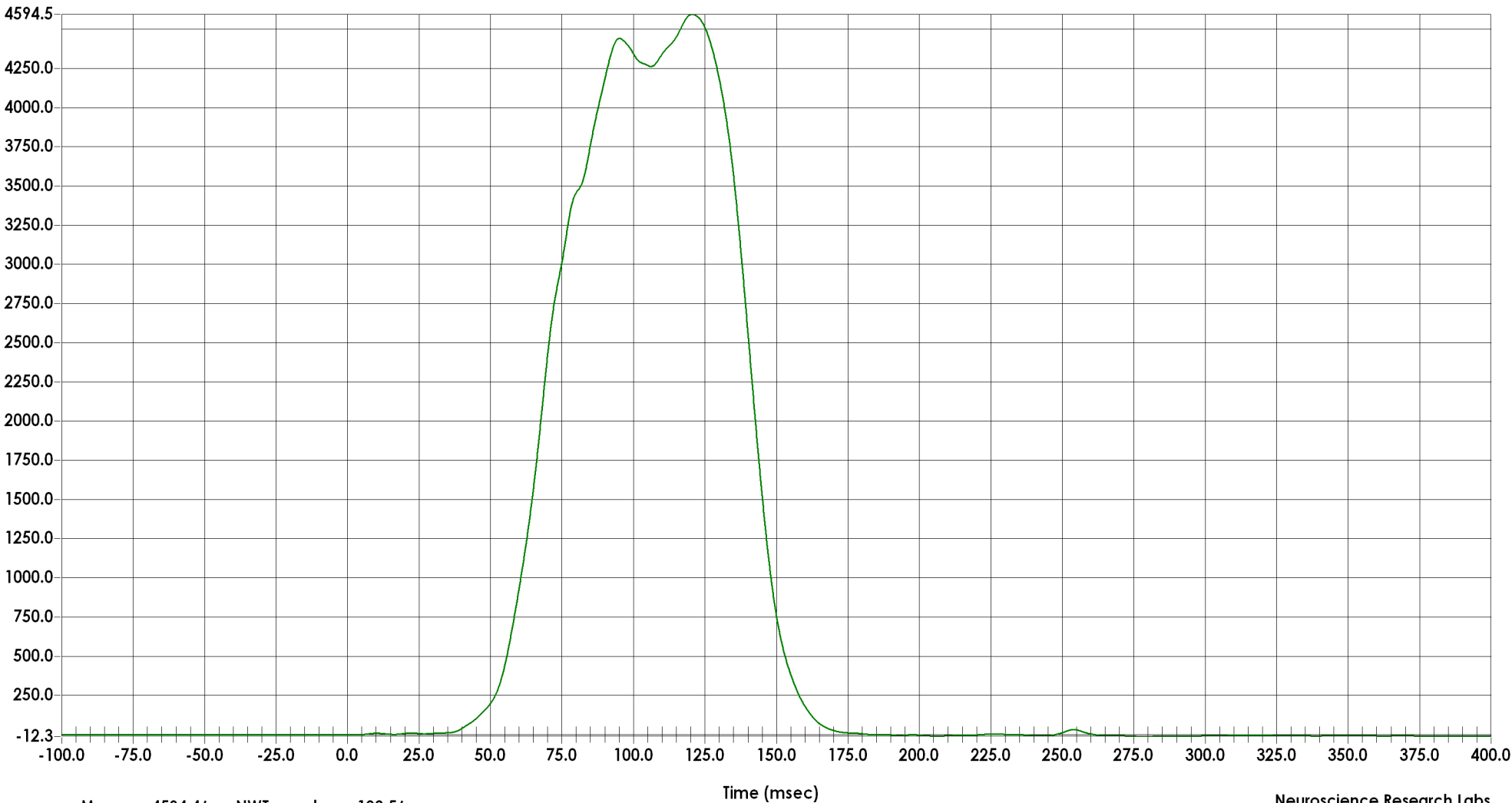
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SHBT
Sensor Info DENTON 1910
Serial Number 1910_166



NWT Passenger Shoulder Belt Loadcell YG



Max 4594.46 NWT at 120.56 msec
Min -11.08 NWT at 279.92 msec

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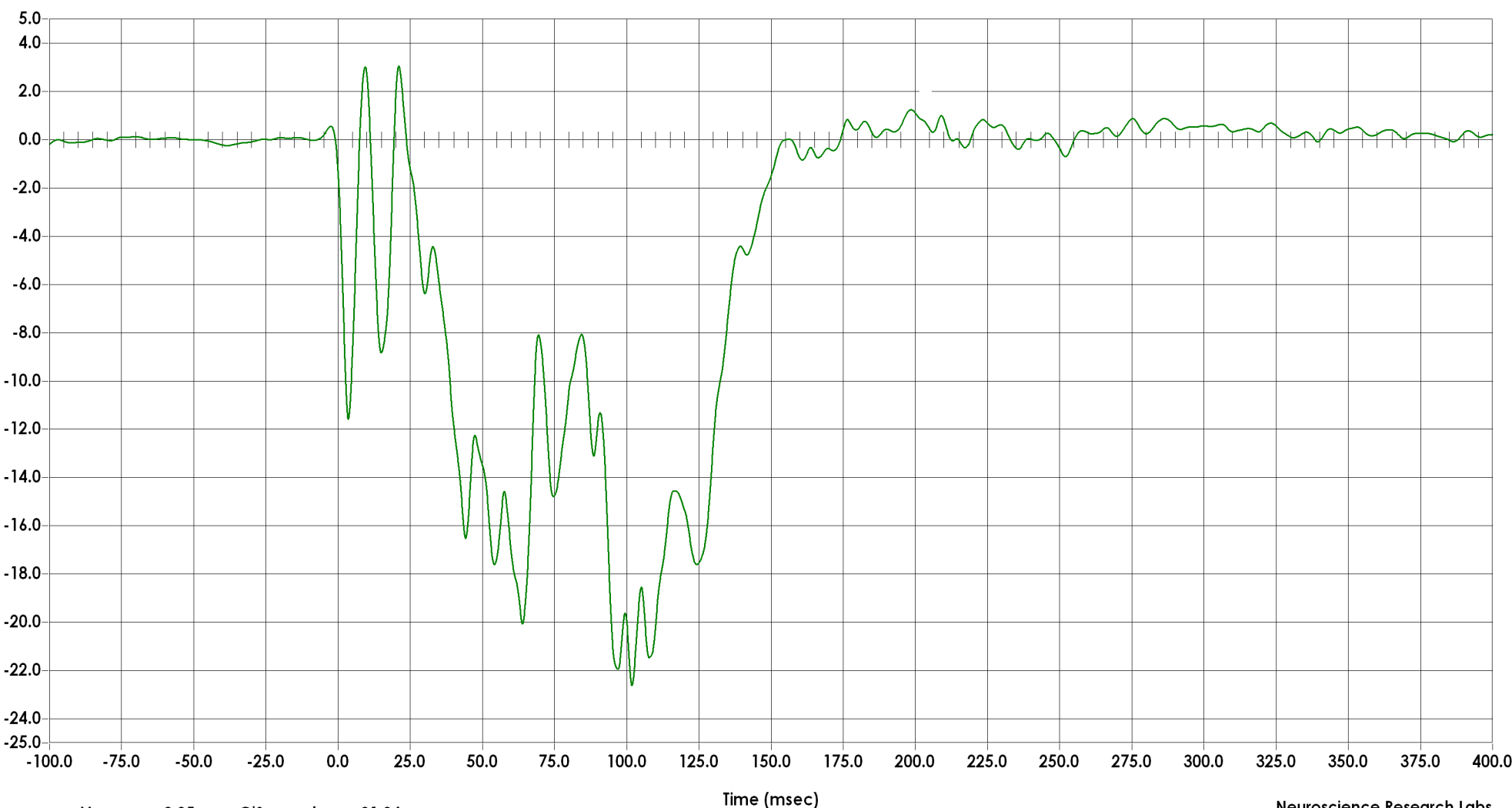
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FRAM
Sensor Info ENDEVCO 7264C-2KTZ-2-180
Serial Number P22230



G'S Left Rear Seat Cross Member XG



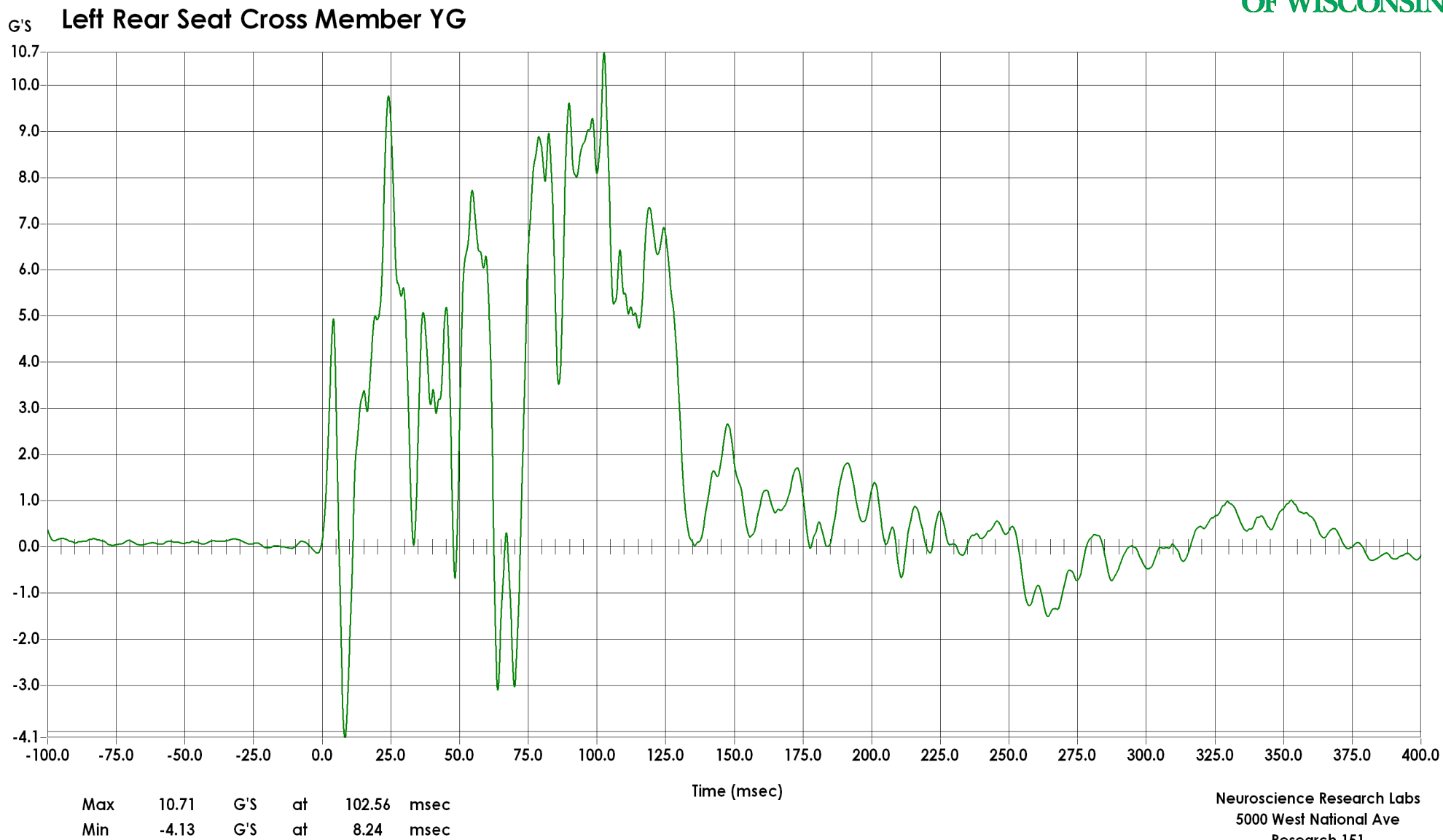
Max 3.05 G'S at 21.04 msec
Min -22.62 G'S at 101.84 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FRAM
Sensor Info ENDEVCO 7264C-2KTZ-2-180
Serial Number P22315



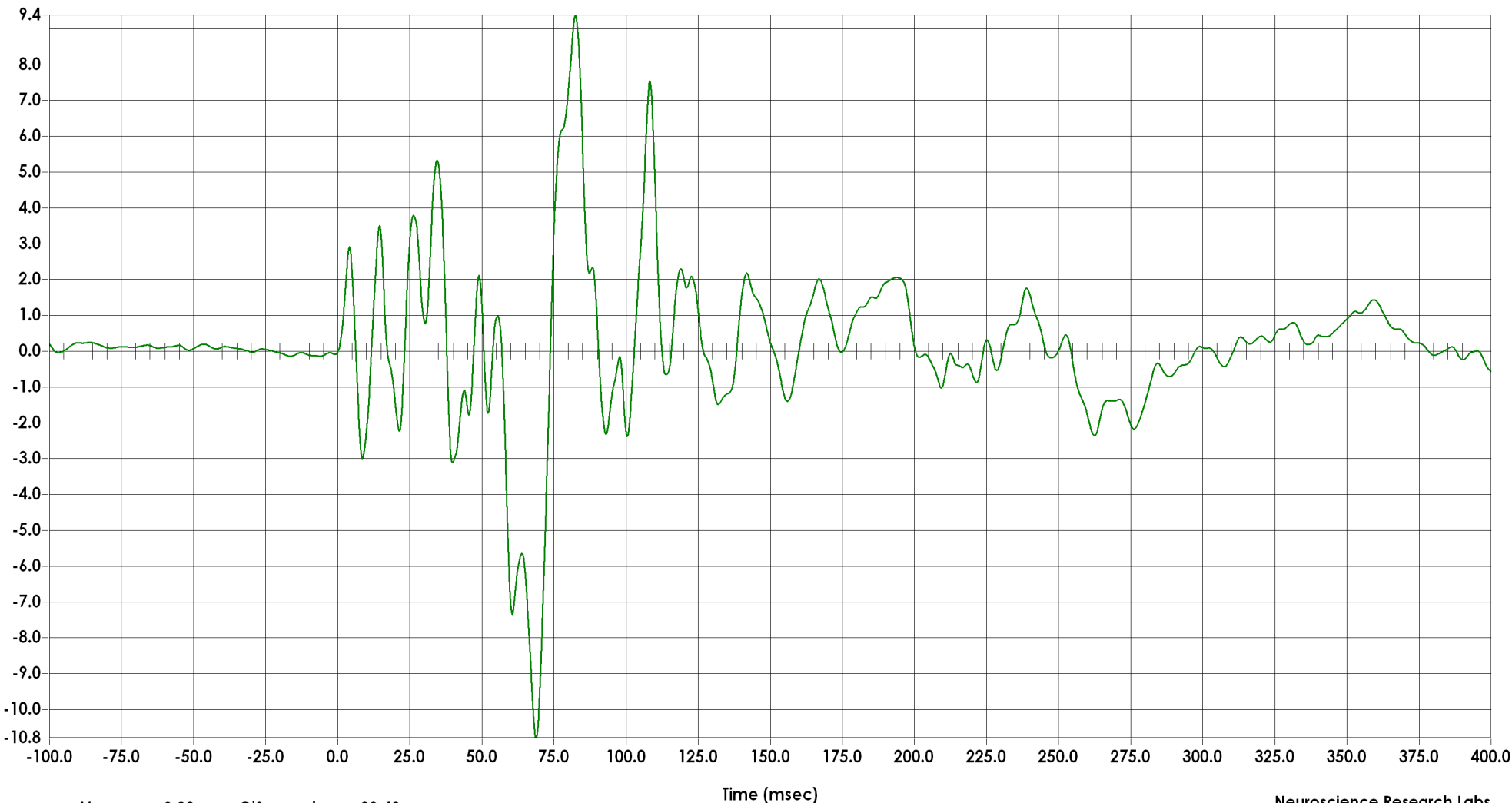
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FRAM
Sensor Info ENDEVCO 7264C-2KTZ-2-180
Serial Number P14233



G'S Left Rear Seat Cross Member ZG



Max 9.38 G's at 82.40 msec
Min -10.80 G's at 68.80 msec

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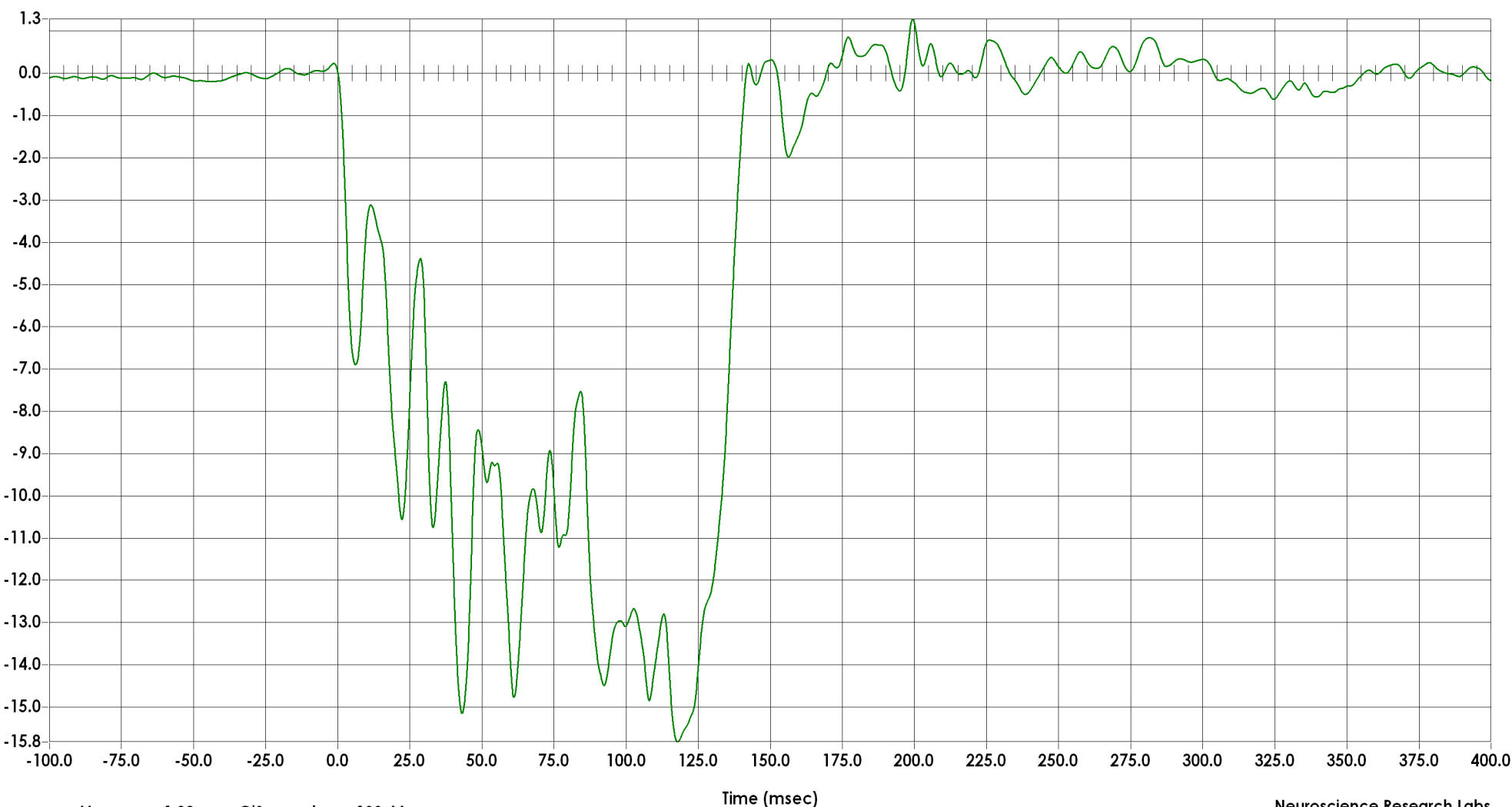
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FRAM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12089



G'S Right Rear Seat Cross Member XG



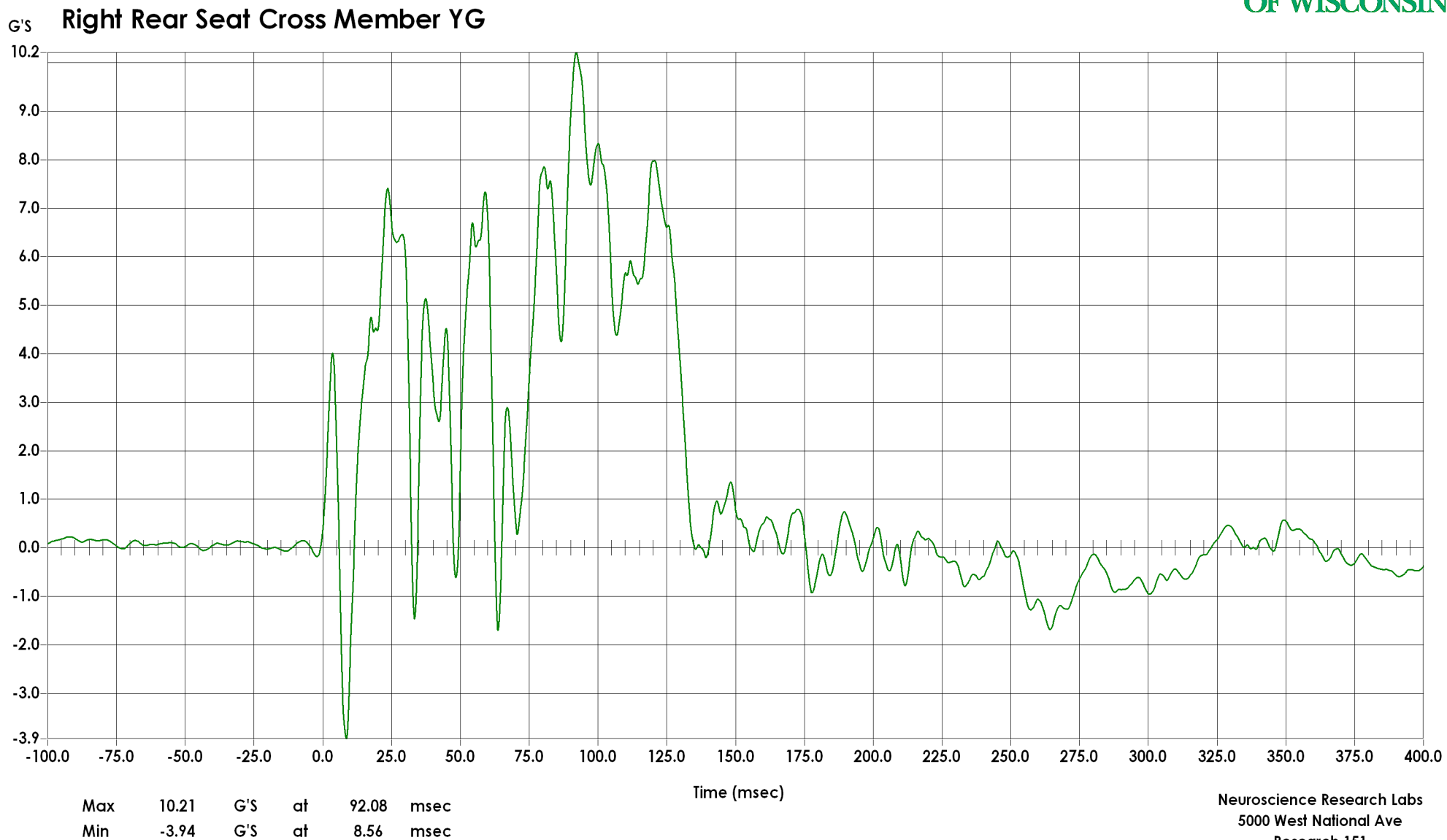
Max 1.28 G'S at 199.44 msec
Min -15.83 G'S at 117.84 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

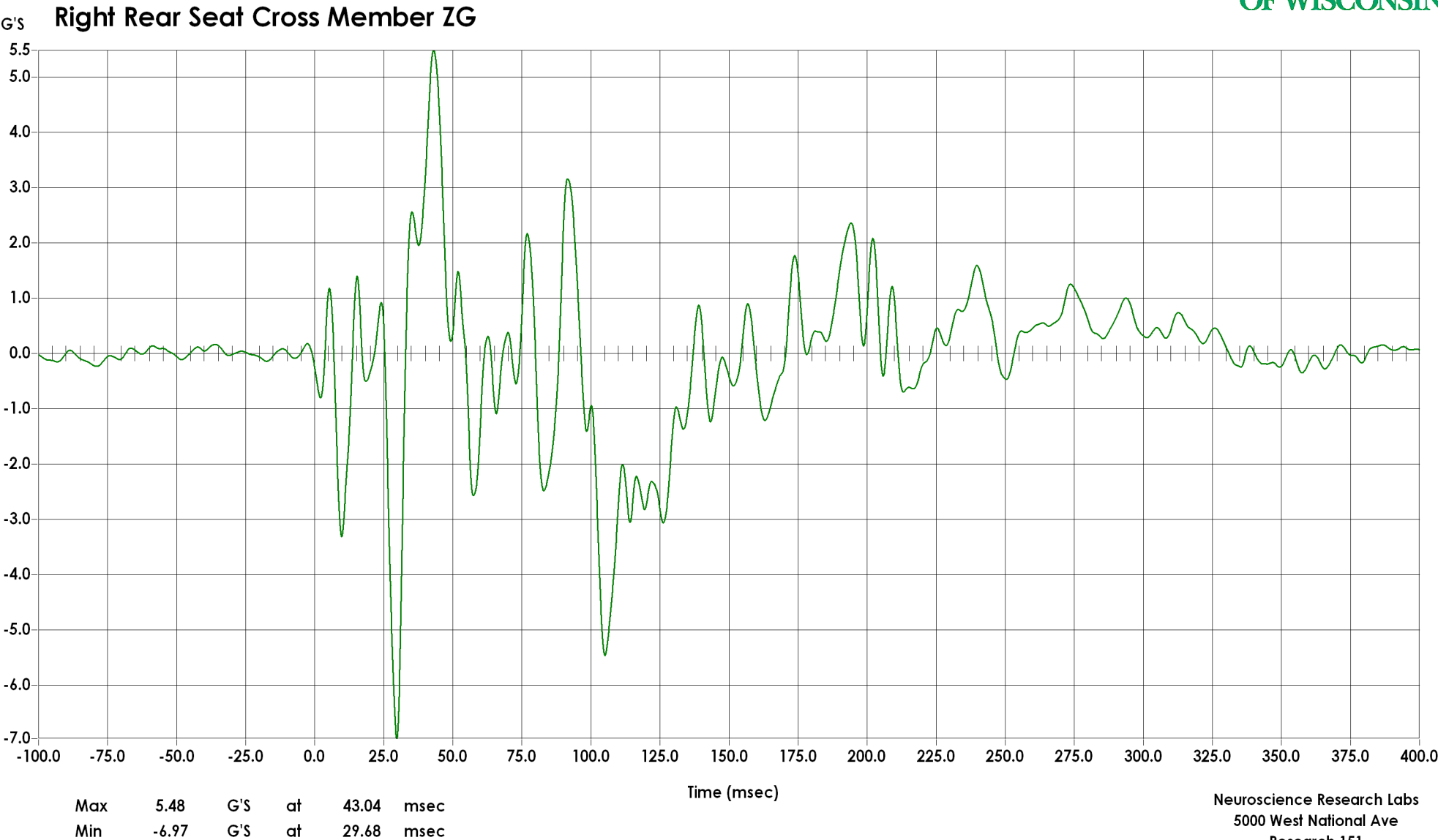
Sensor Location FRAM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12146



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FRAM
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12088



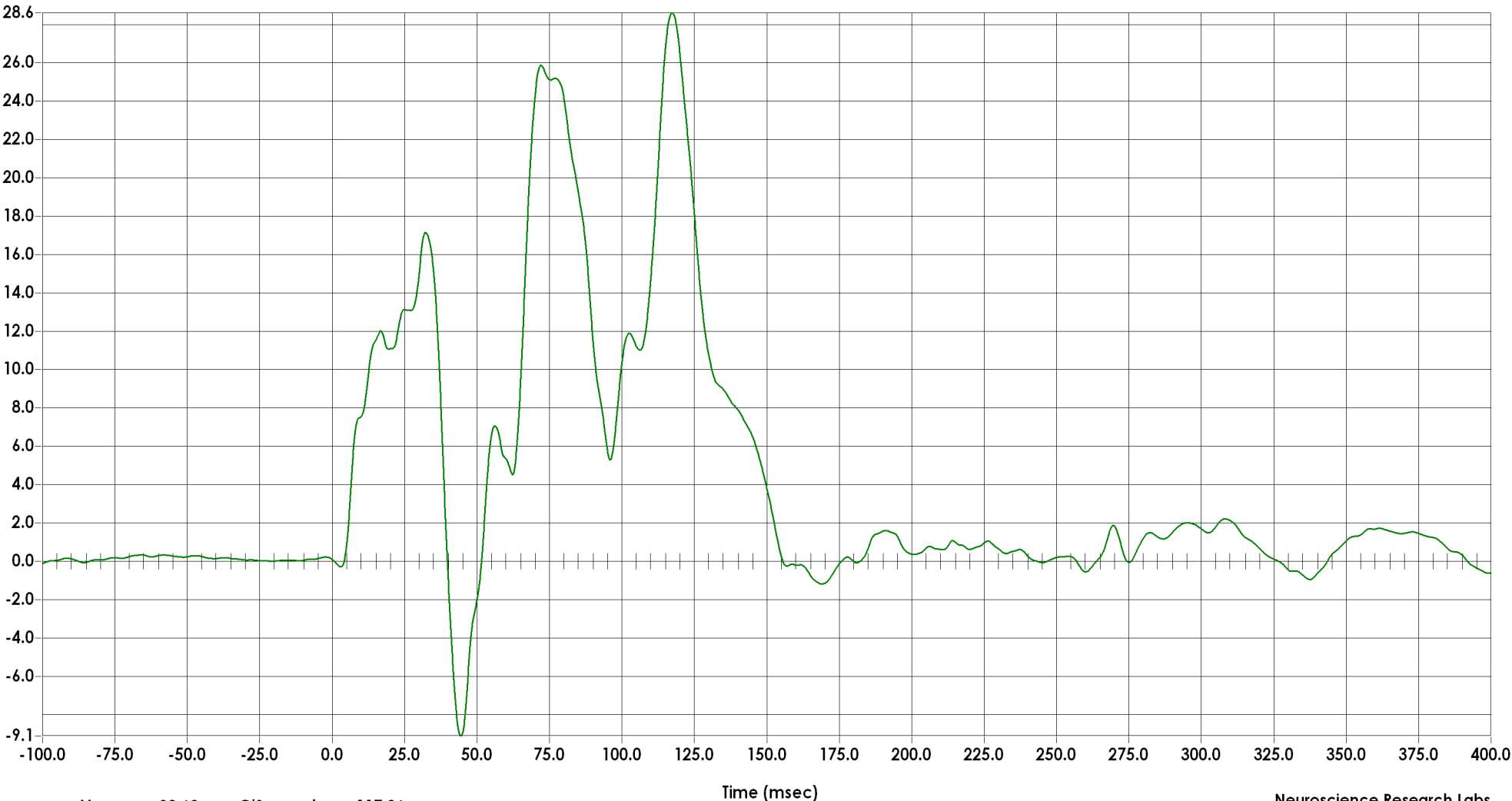
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location ENGN
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011655



G'S Top of Engine Block XG



Max 28.60 G'S at 117.36 msec
Min -9.12 G'S at 44.40 msec

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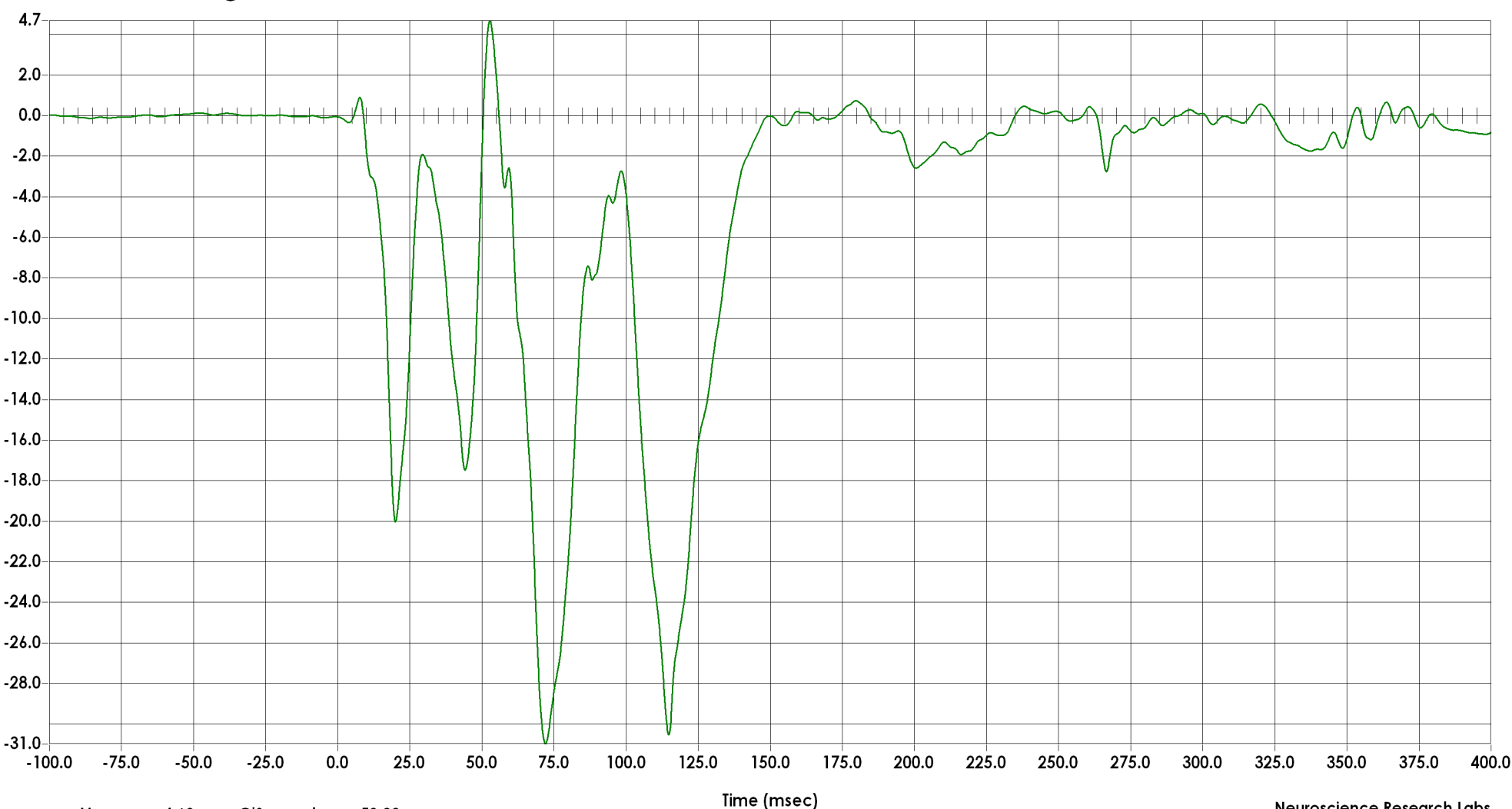
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location ENGN
Sensor Info MSI 64-2000-10-360-XY
Serial Number A007227



G'S Bottom of Engine Block XG



Max 4.69 G's at 52.80 msec
Min -30.99 G's at 72.08 msec

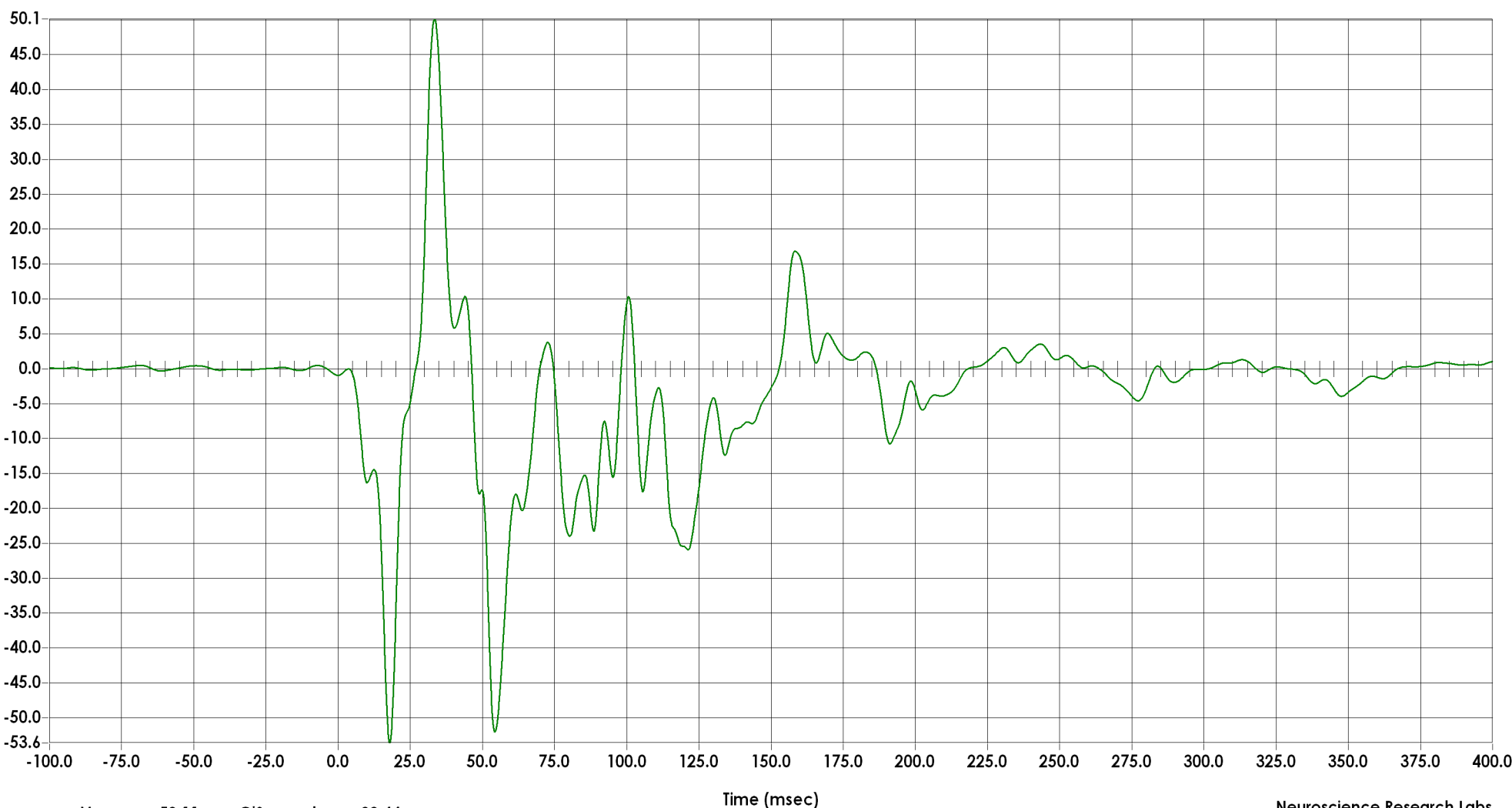
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011625



G'S Right Front Disc Brake Caliper XG



Max 50.11 G'S at 33.44 msec
Min -53.61 G'S at 17.92 msec

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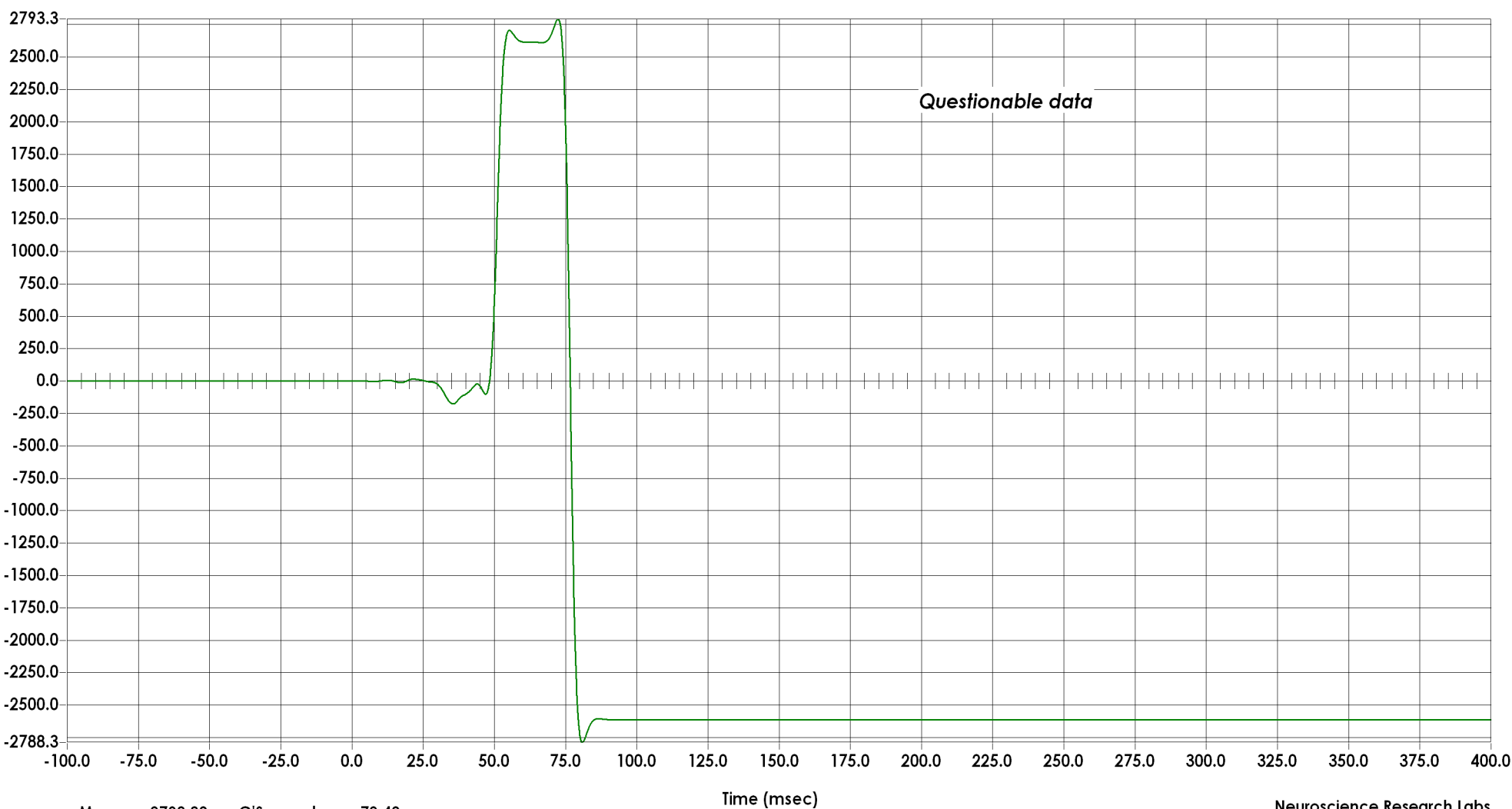
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011644



G's Left Front Disc Brake Caliper XG



Max 2793.30 G's at 72.40 msec
Min -2788.26 G's at 80.88 msec

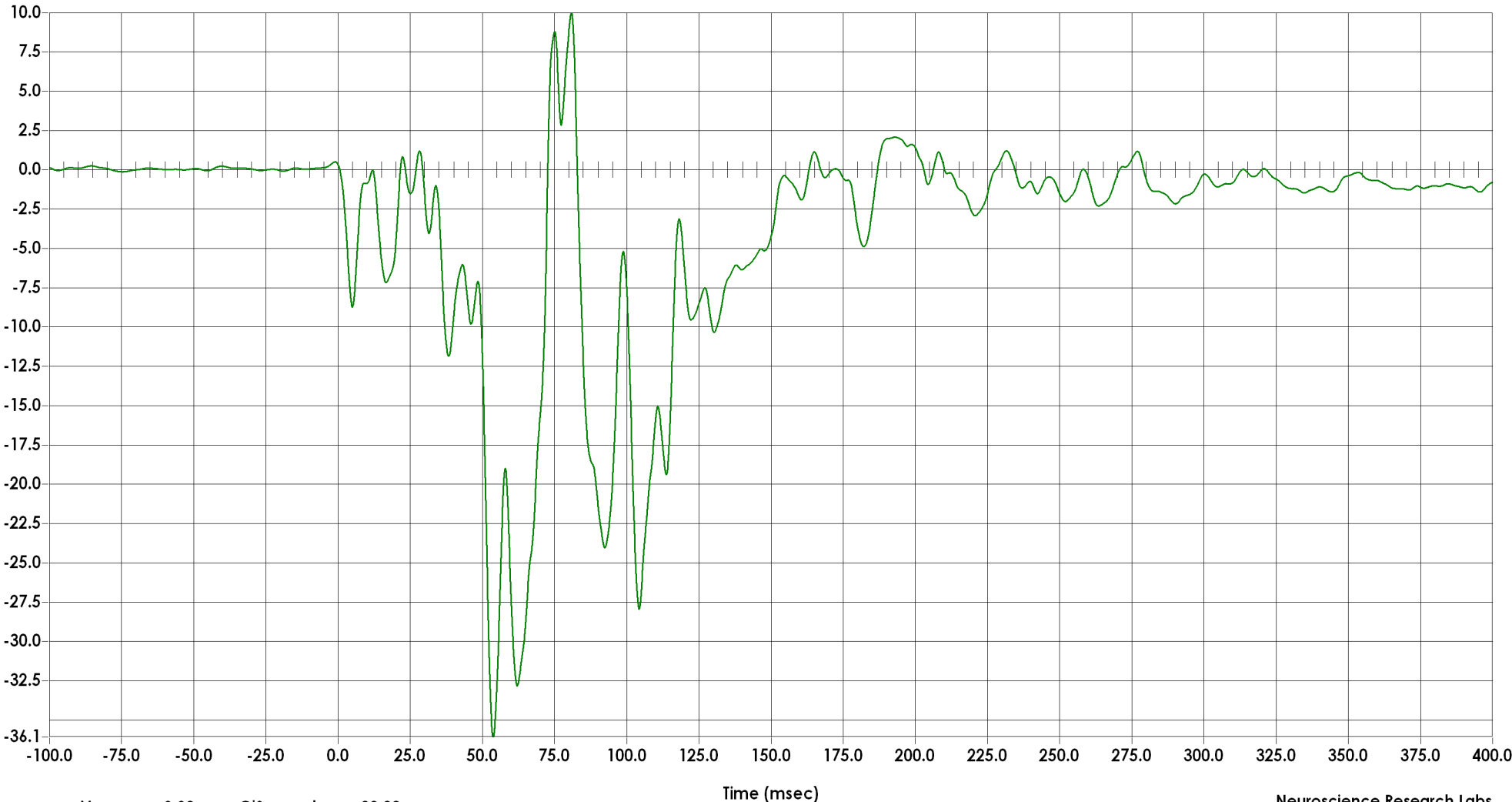
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location DASH
Sensor Info ENTRAN EGE-73BQ-2000B
Serial Number 98B98A26-D05



G'S Instrument Panel Acceleration XG



Max 9.98 G'S at 80.88 msec
Min -36.07 G'S at 53.76 msec

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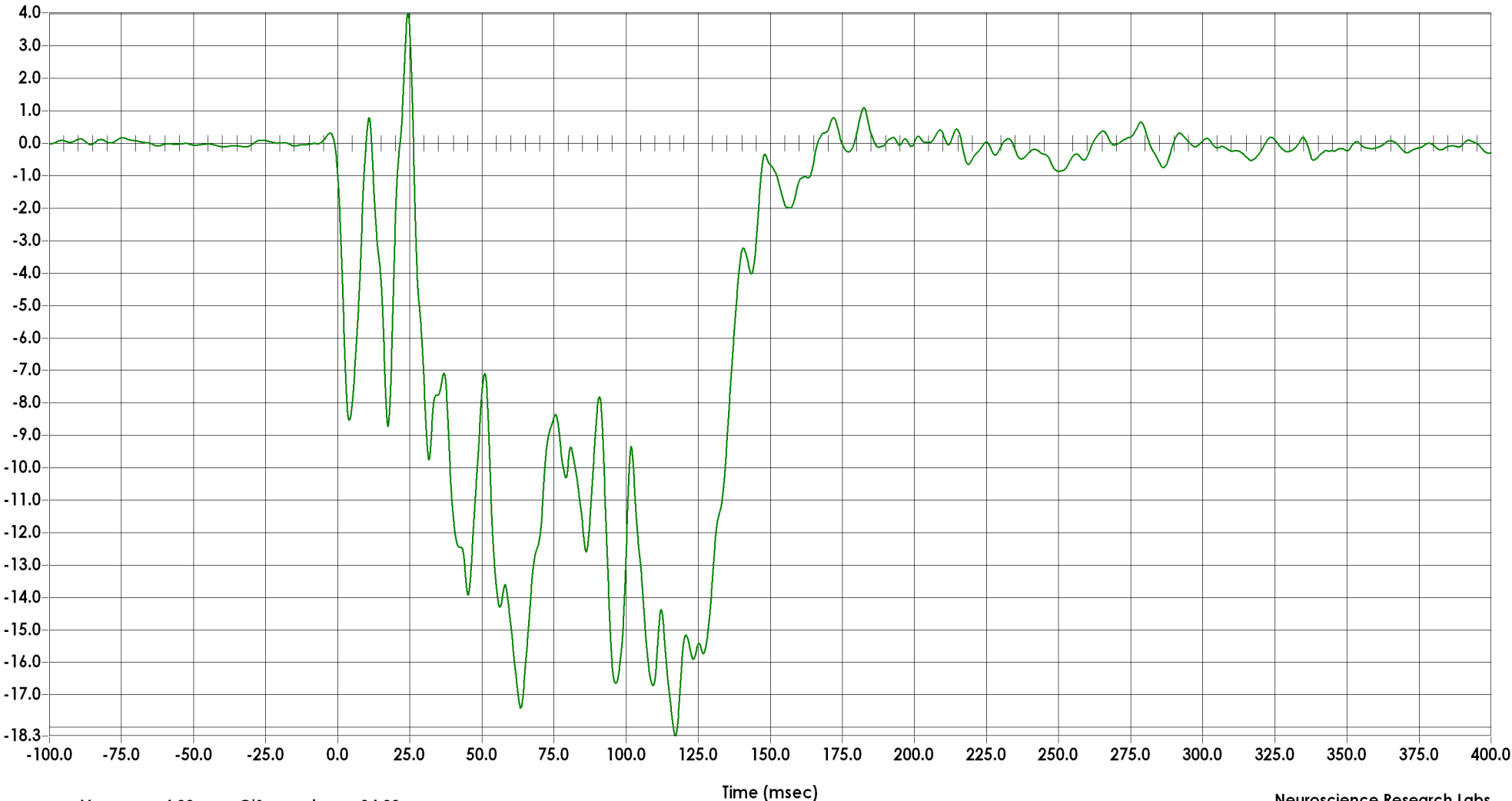
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location VECG
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011321



G'S Vehicle Center of Gravity XG



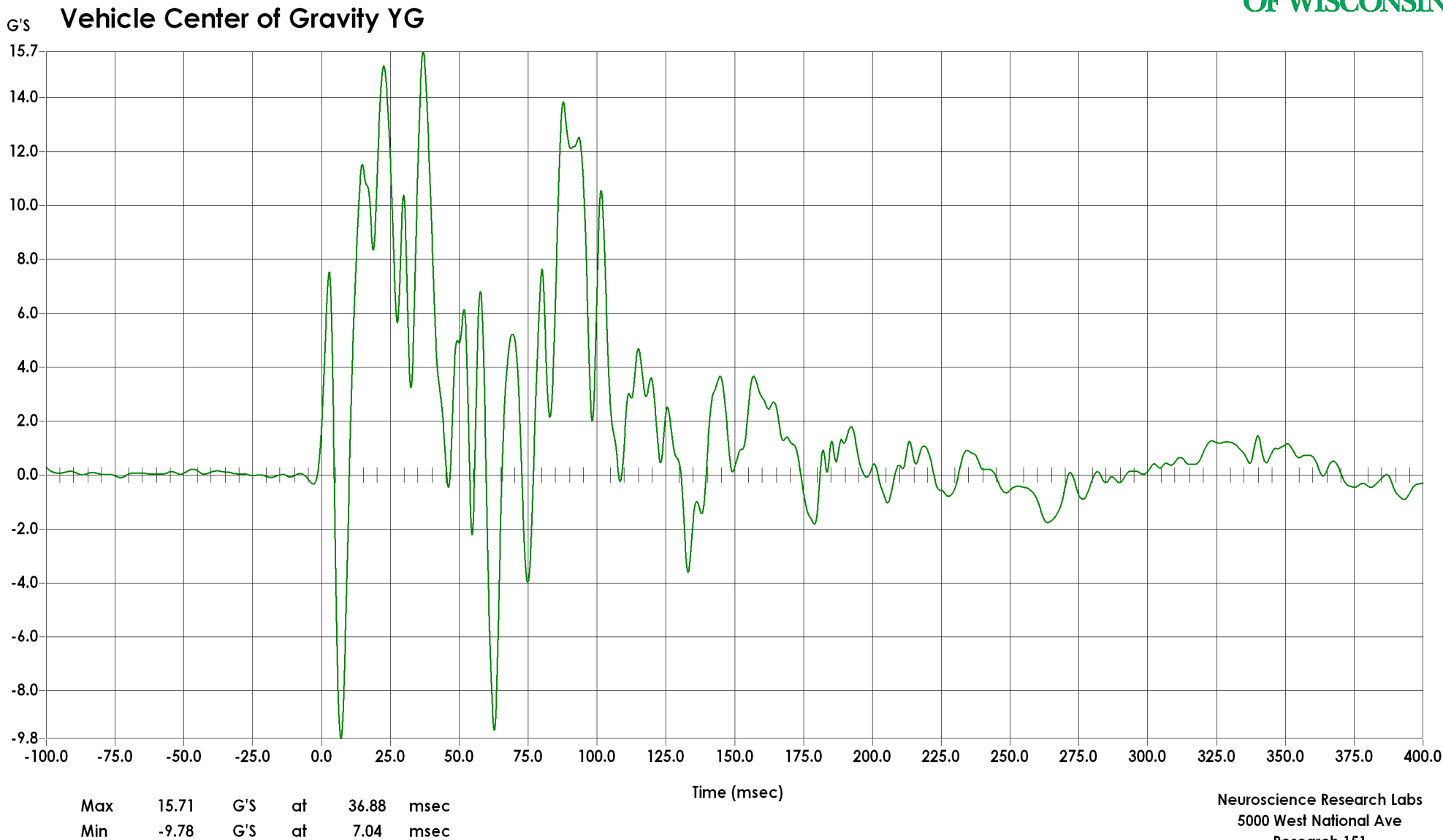
Max 4.02 G's at 24.32 msec
Min -18.27 G's at 117.12 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location VECG
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011312



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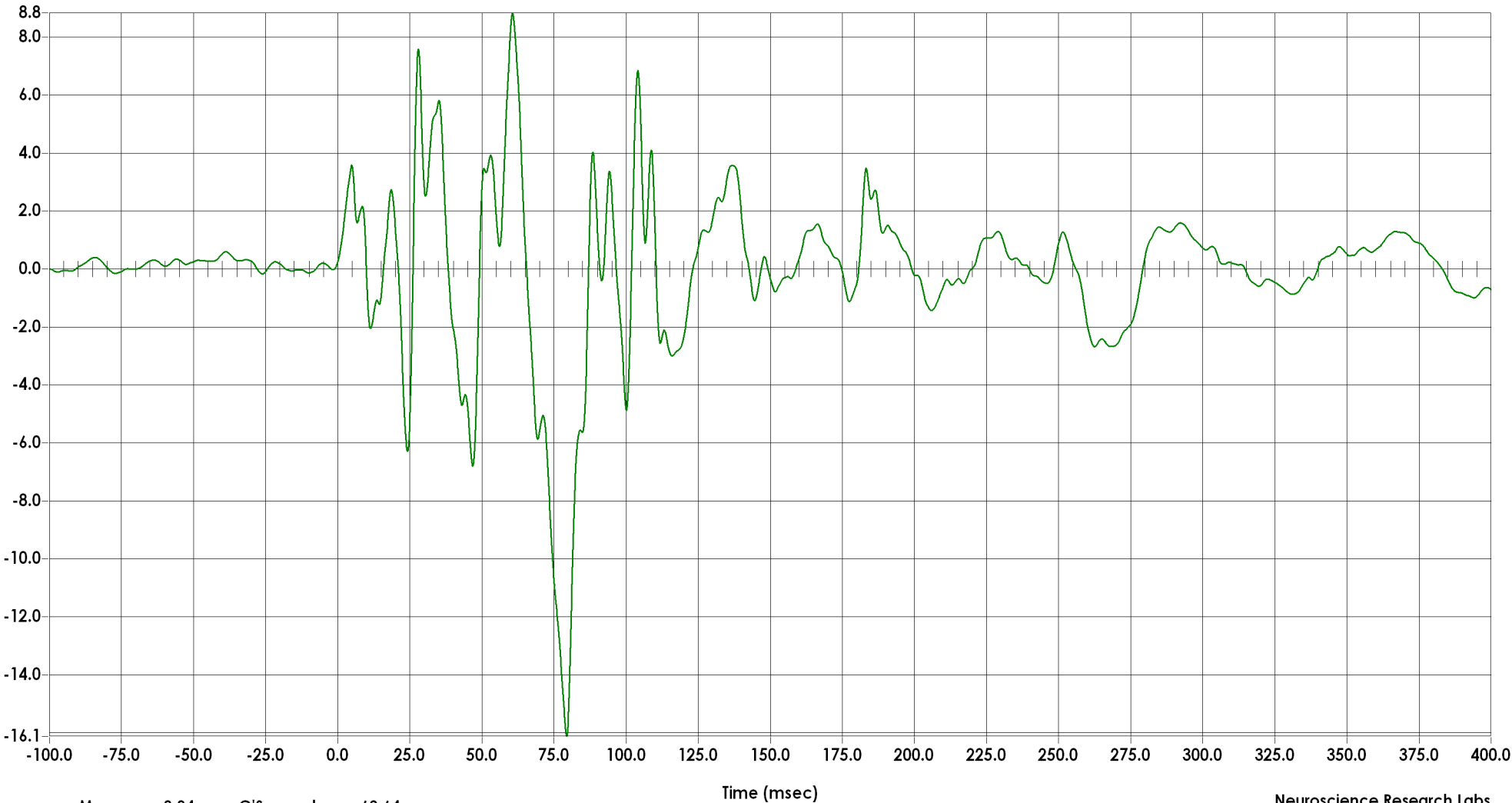
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location VECG
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011331



G'S Vehicle Center of Gravity ZG



Max 8.84 G's at 60.64 msec
Min -16.13 G's at 79.44 msec

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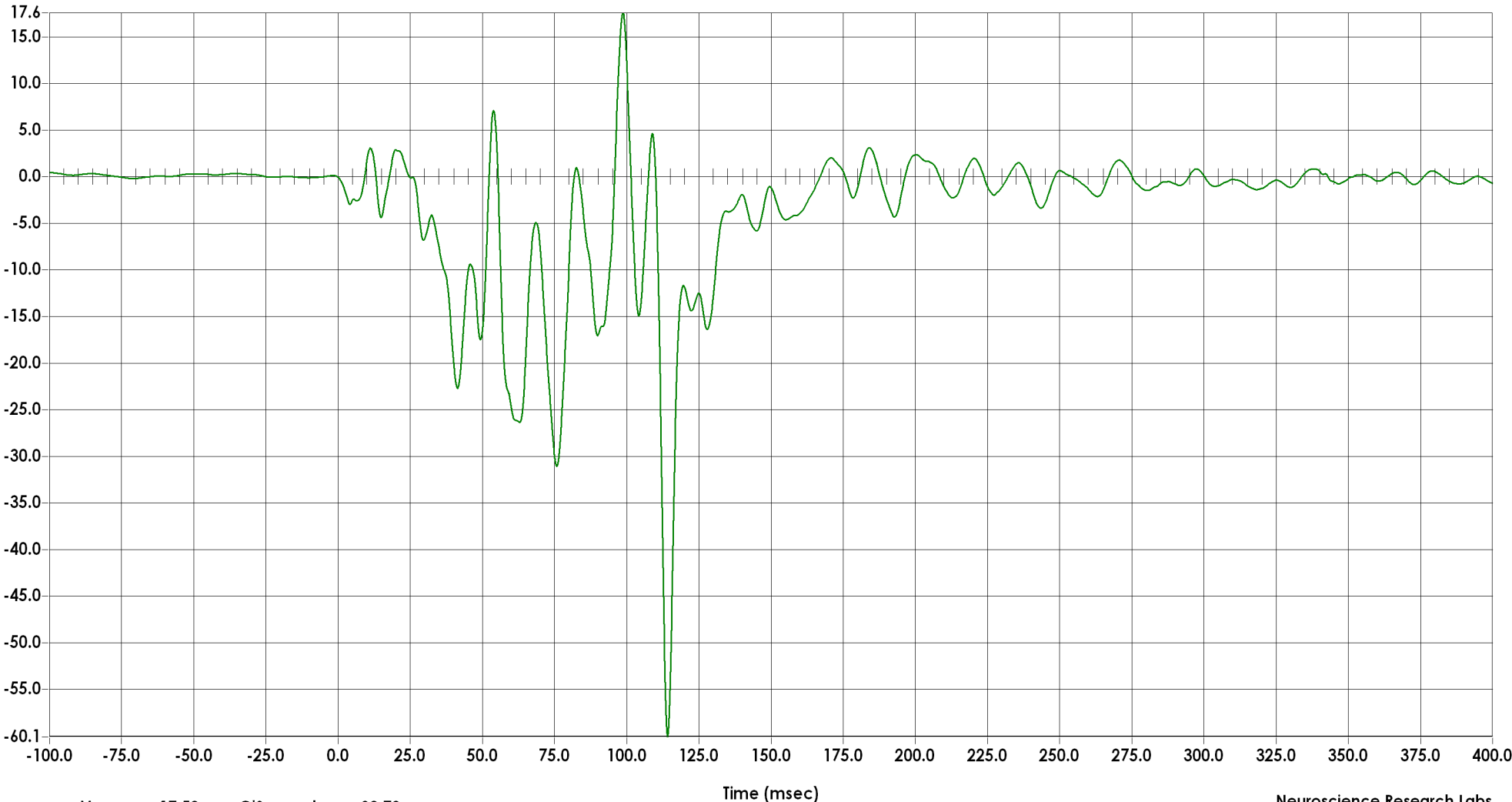
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12148



G'S Accelerator Pedal XG



Max 17.58 G's at 98.72 msec
Min -60.12 G's at 114.16 msec

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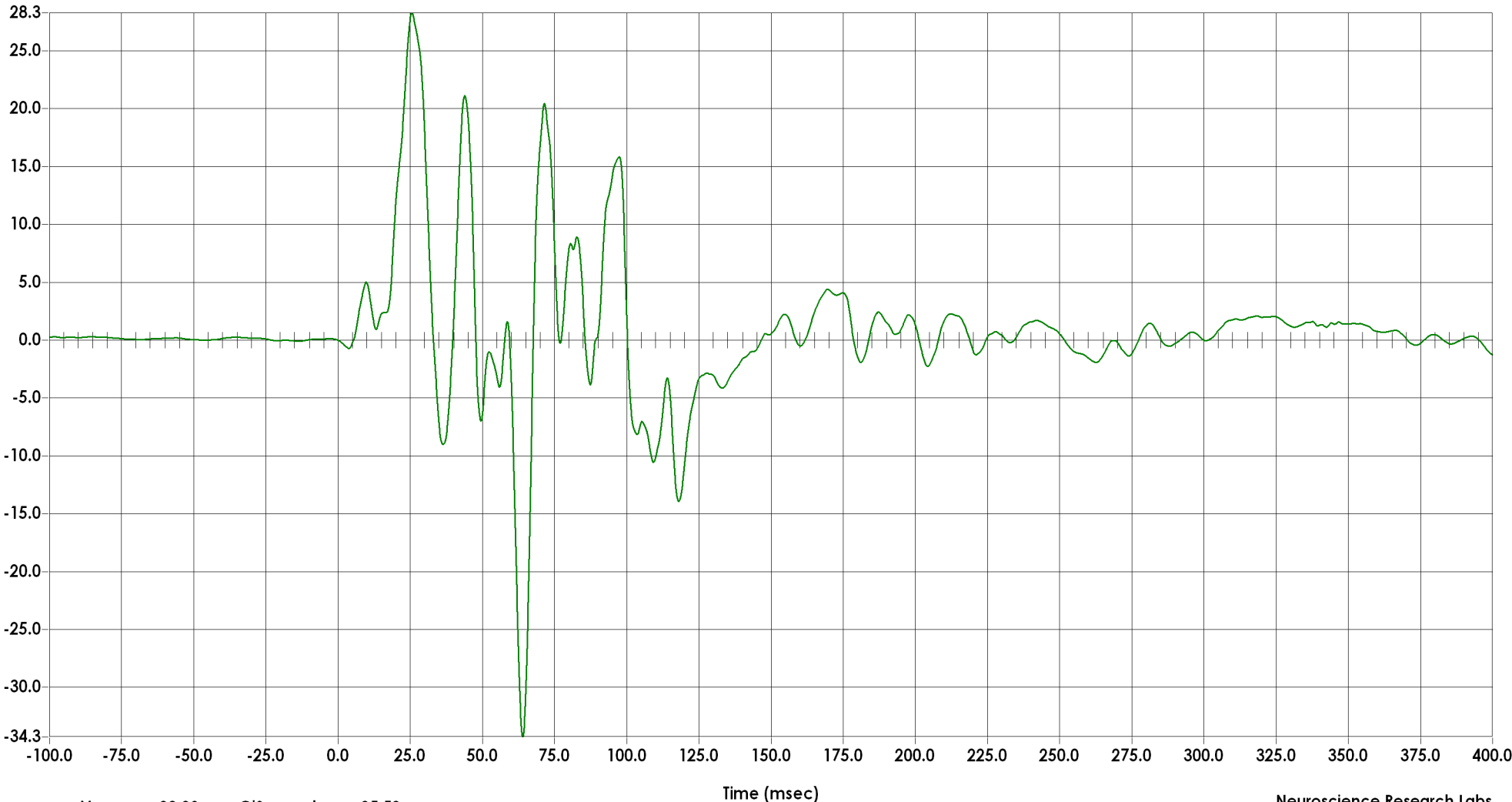
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12127



G'S Accelerator Pedal YG



Max 28.29 G's at 25.52 msec
Min -34.29 G's at 64.00 msec

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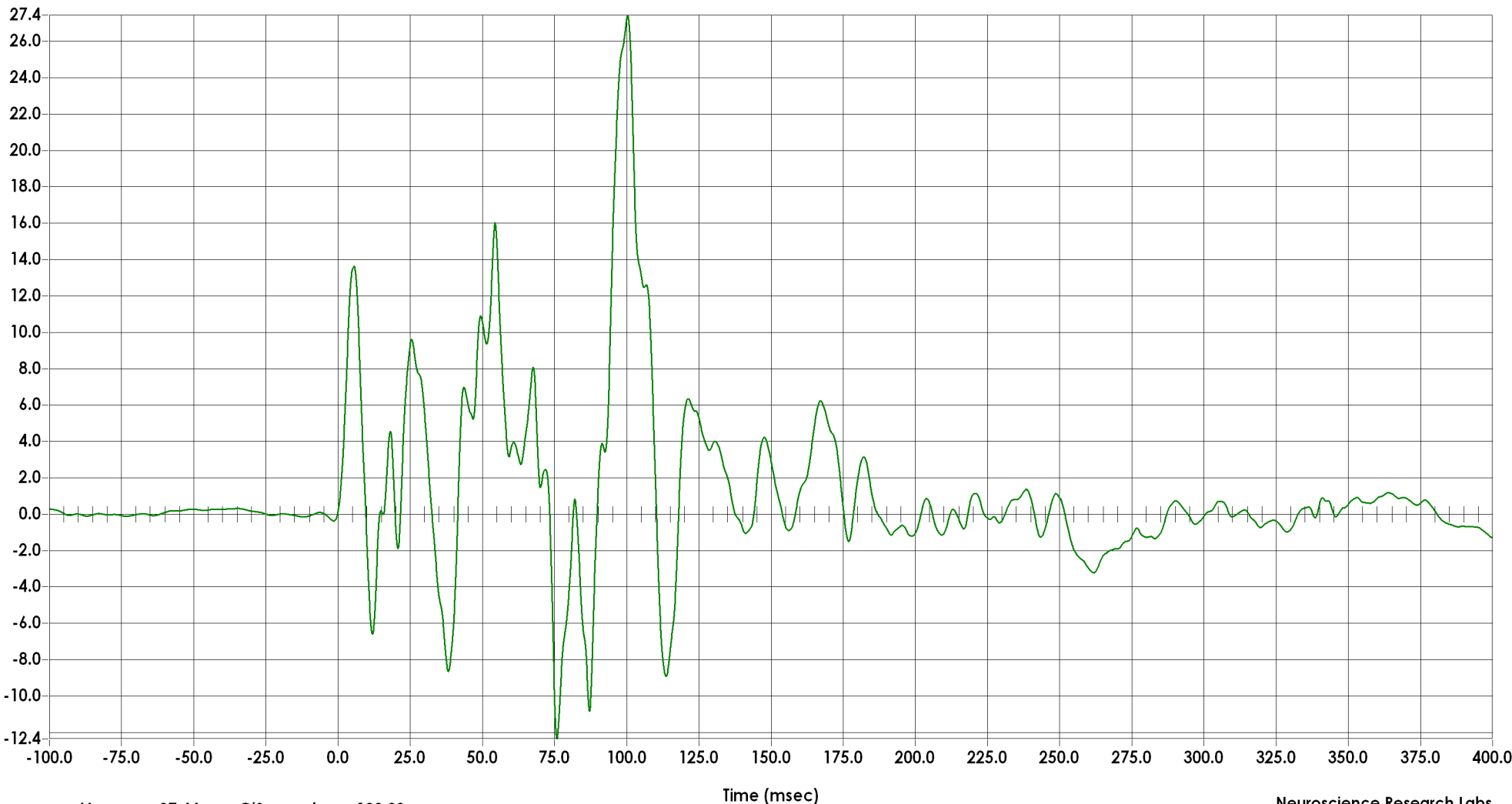
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12134



G'S Accelerator Pedal ZG



Max 27.44 G's at 100.32 msec
Min -12.36 G's at 75.84 msec

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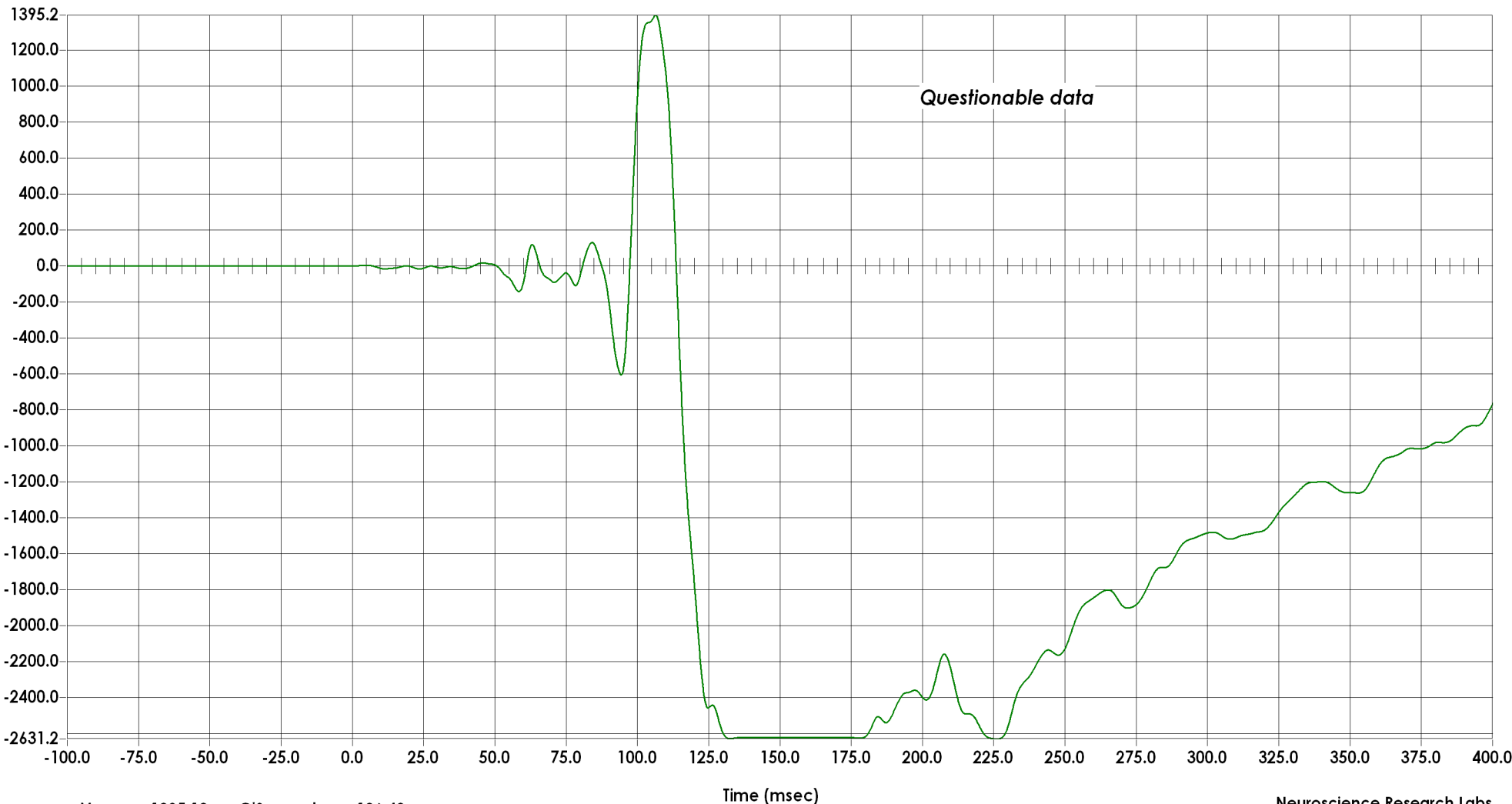
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12096



G'S Brake Pedal XG



Max 1395.18 G's at 106.40 msec
Min -2631.24 G's at 226.24 msec

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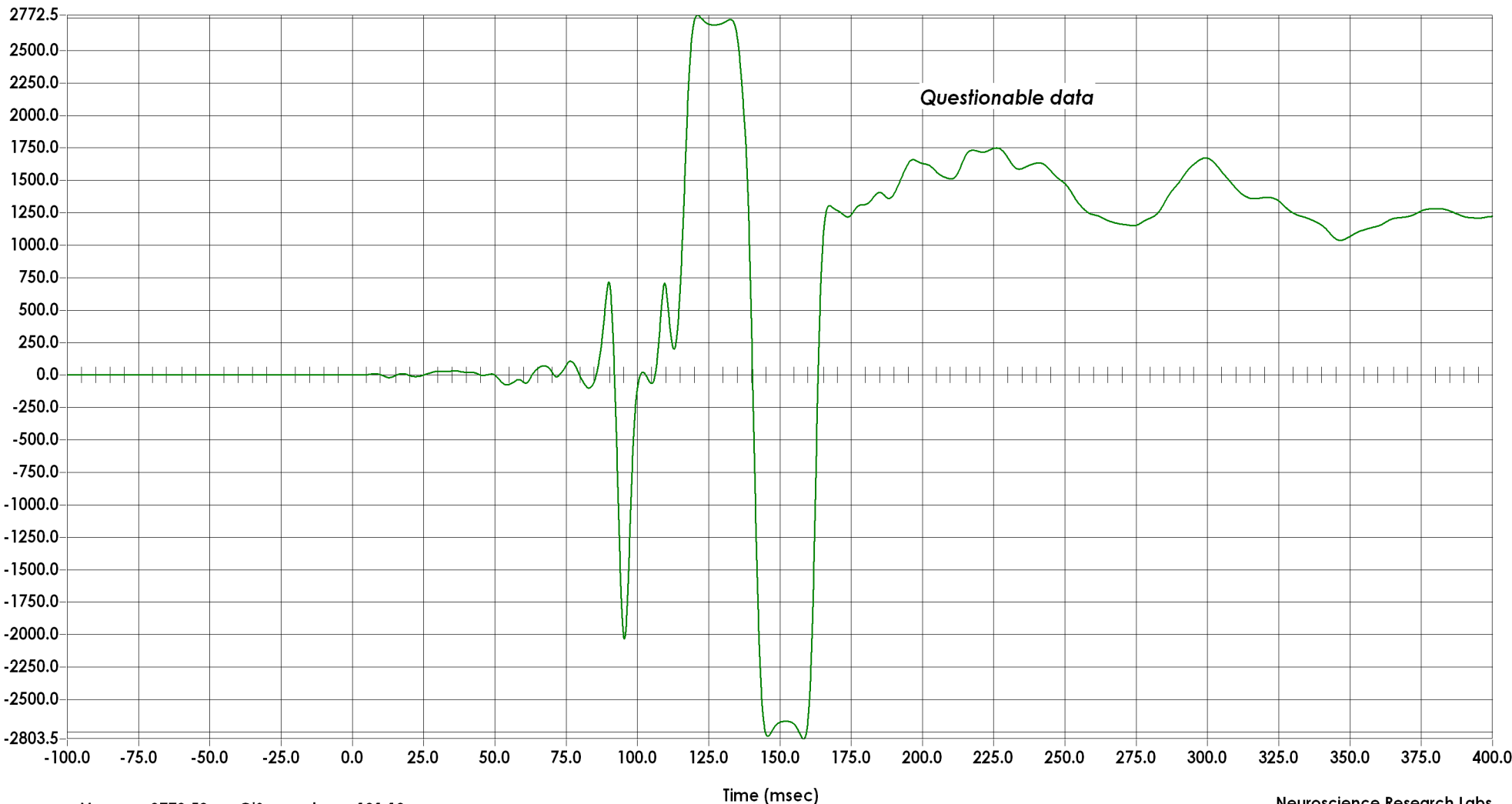
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12118



G's Brake Pedal YG



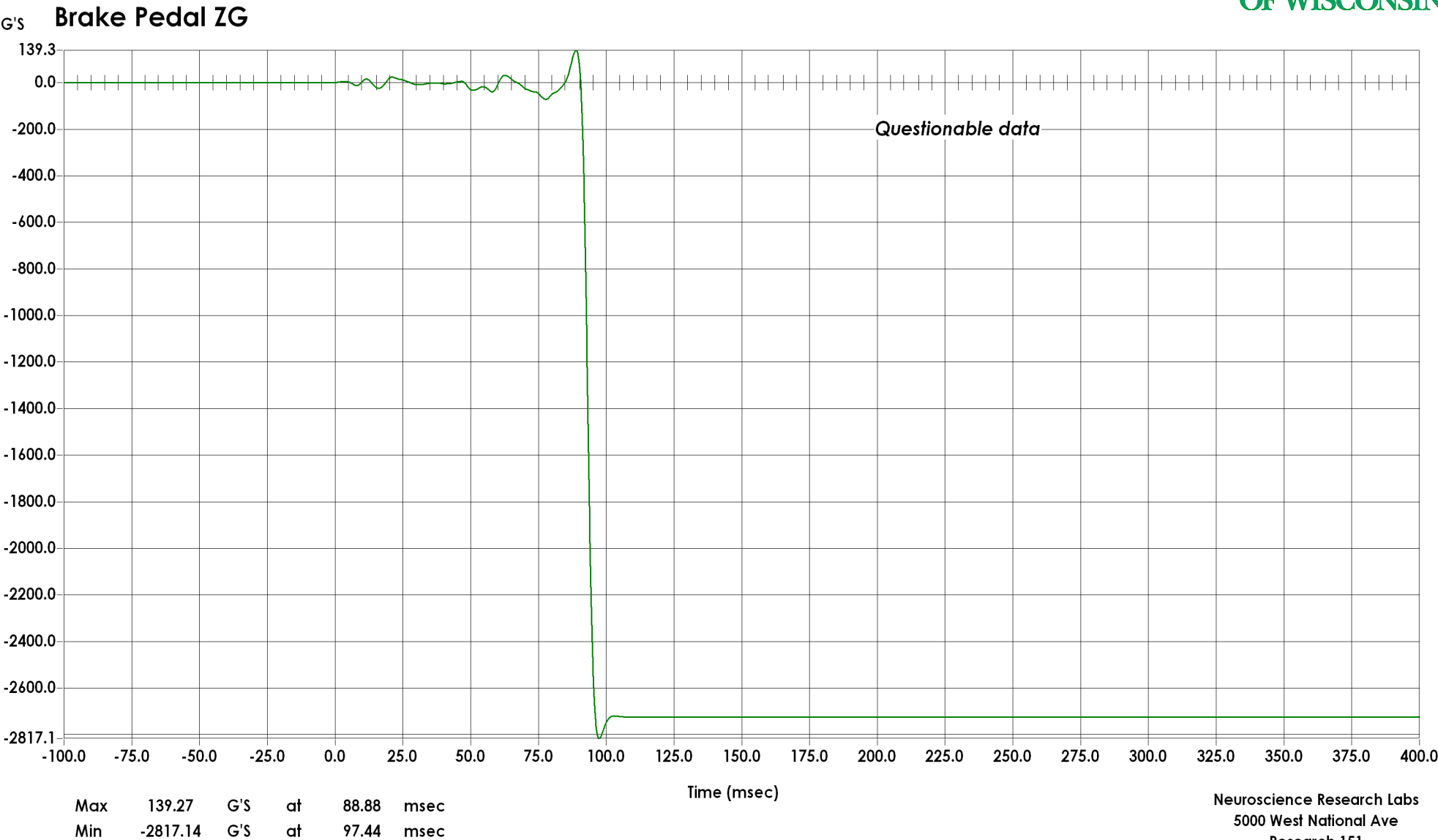
Max 2772.53 G's at 121.12 msec
Min -2803.50 G's at 158.32 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12111



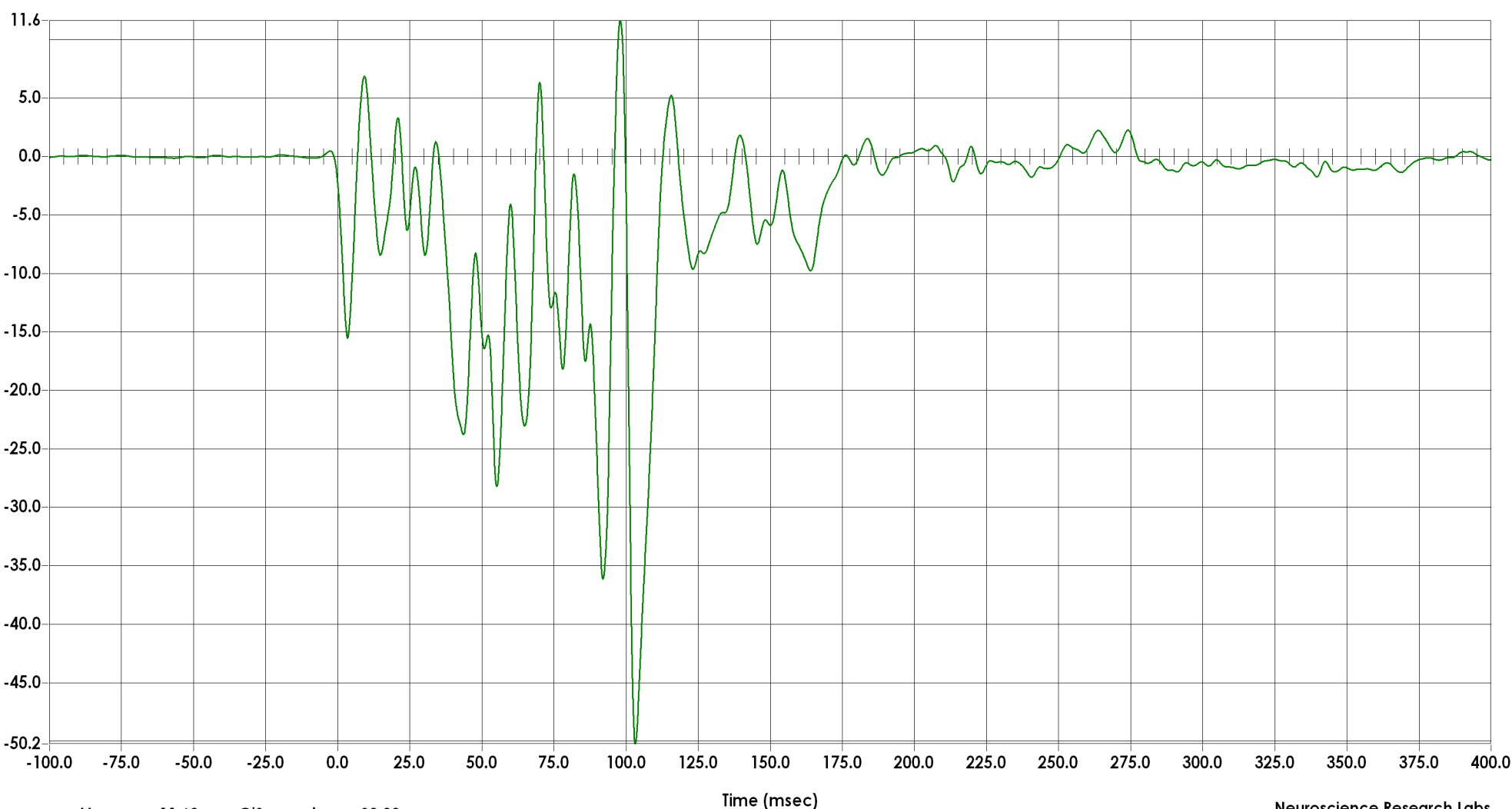
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FLOR
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12110



G'S Foot Rest XG



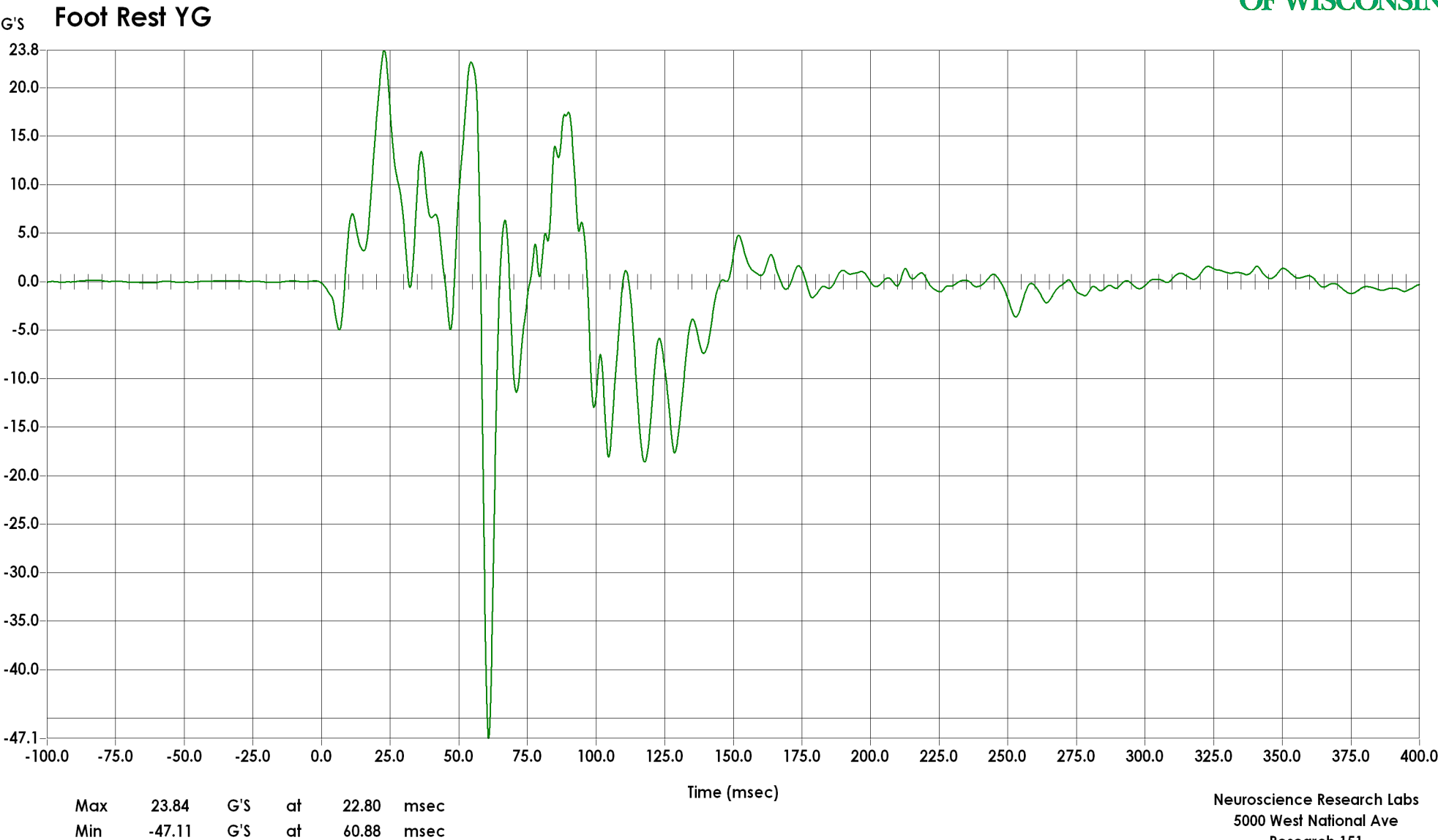
Max 11.62 G'S at 98.00 msec
Min -50.23 G'S at 103.20 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FLOR
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011343



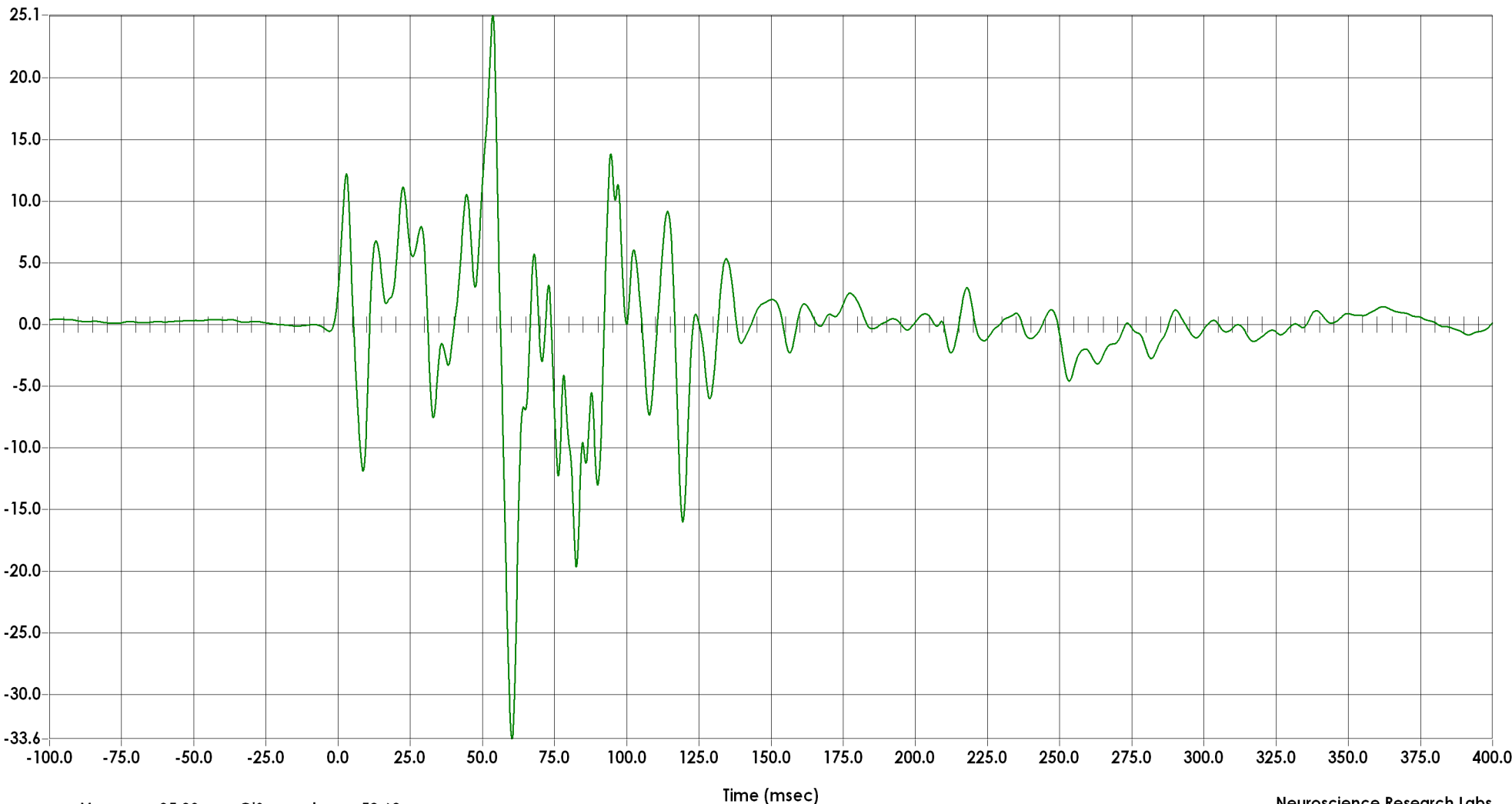
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FLOR
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011334



G'S Foot Rest ZG



Max 25.09 G'S at 53.60 msec
Min -33.60 G'S at 60.24 msec

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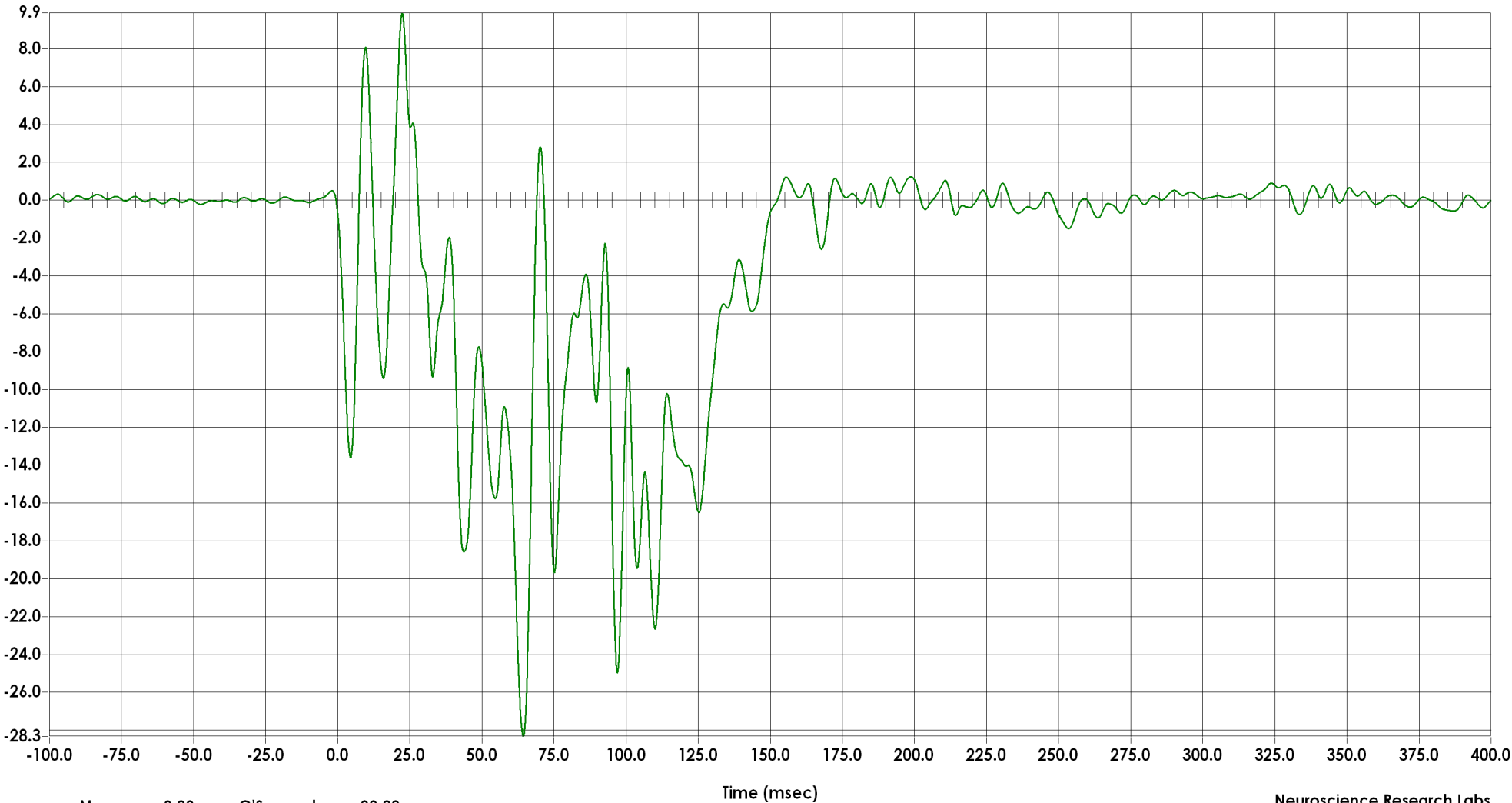
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location STLF
Sensor Info MSI 52-2000-10-360-XY
Serial Number A011649



G'S Driver Side Mid Seat Track XL



Max 9.89 G's at 22.32 msec
Min -28.33 G's at 64.40 msec

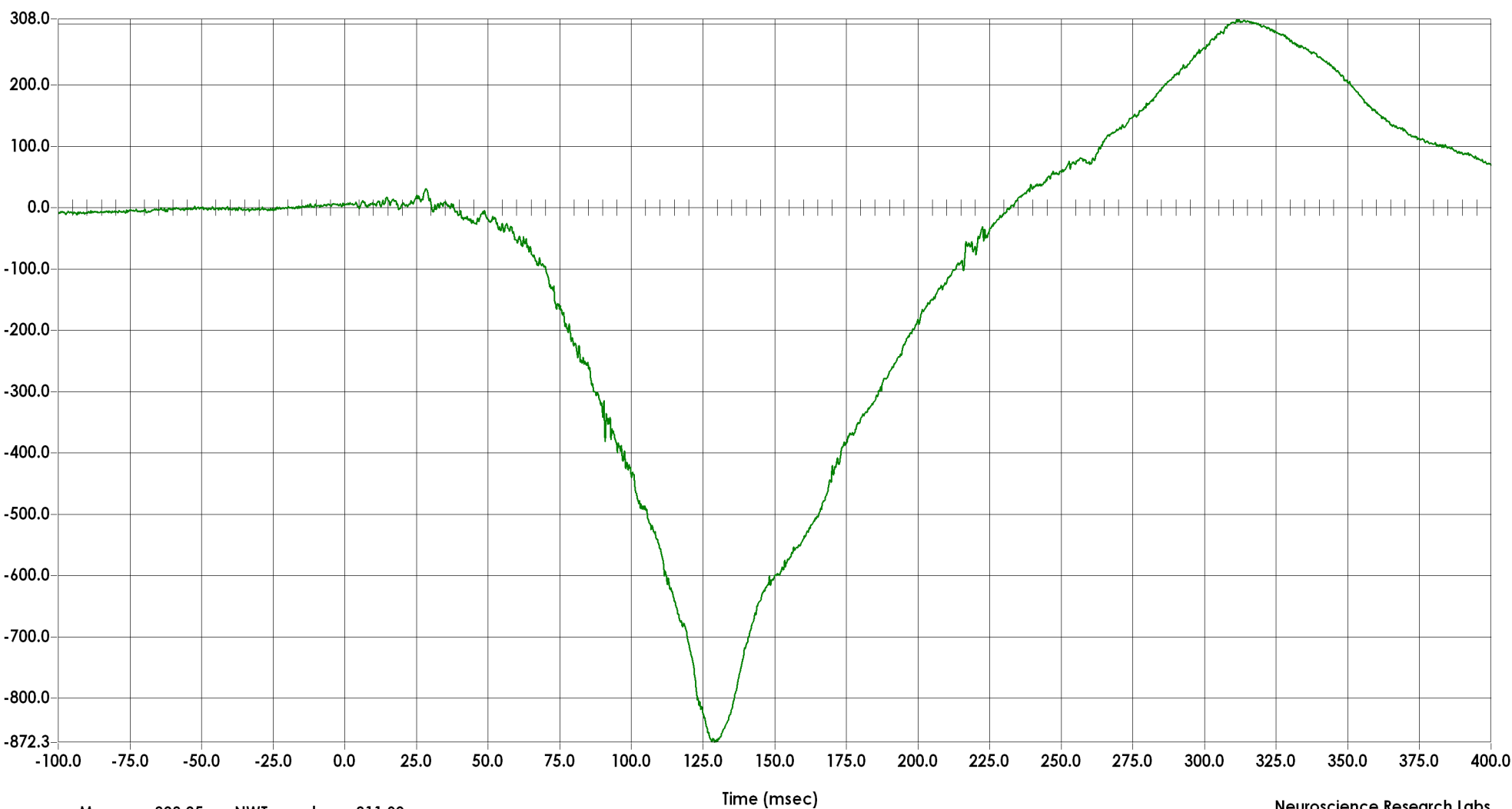
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info Denton 3454J
Serial Number 3454J_75_FX



NWT Driver Upper Neck Loadcell Force XL



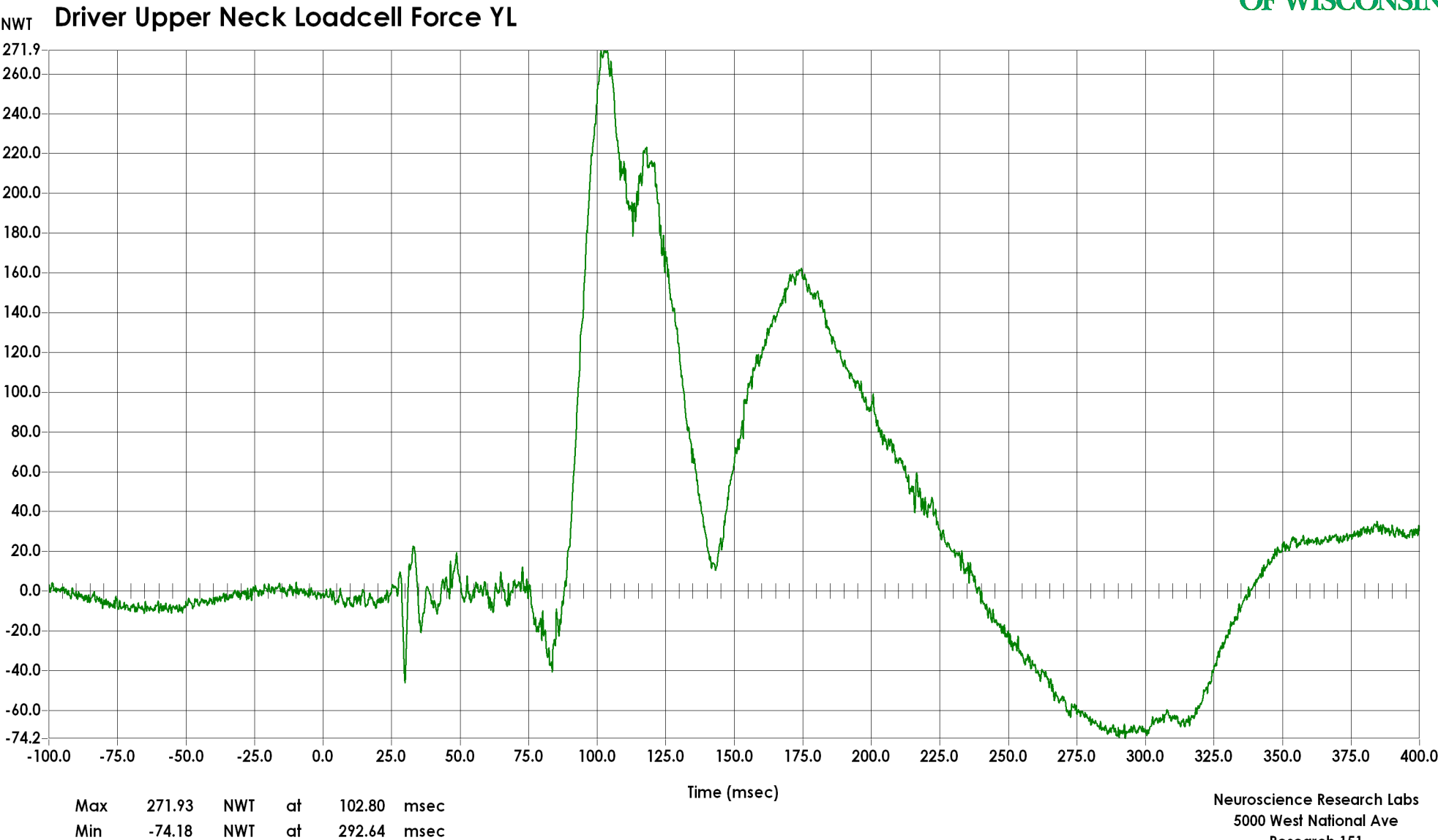
Max 308.05 NWT at 311.92 msec
Min -872.29 NWT at 129.04 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info Denton 3454J
Serial Number 3454J_75_FY



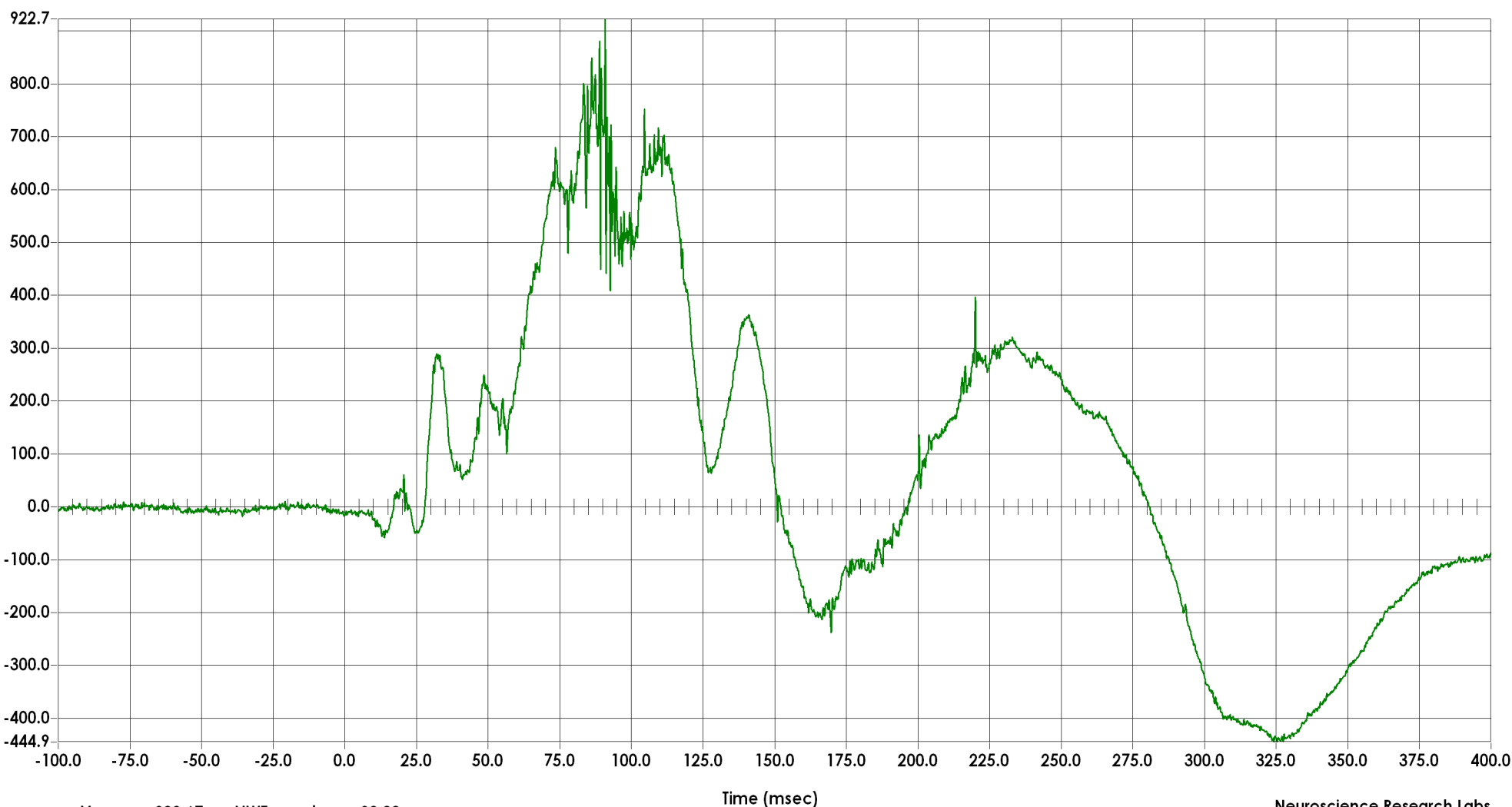
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info Denton 3454J
Serial Number 3454J_75_FZ



NWT Driver Upper Neck Loadcell Force ZL



Max 922.67 NWT at 90.88 msec
Min -444.87 NWT at 324.24 msec

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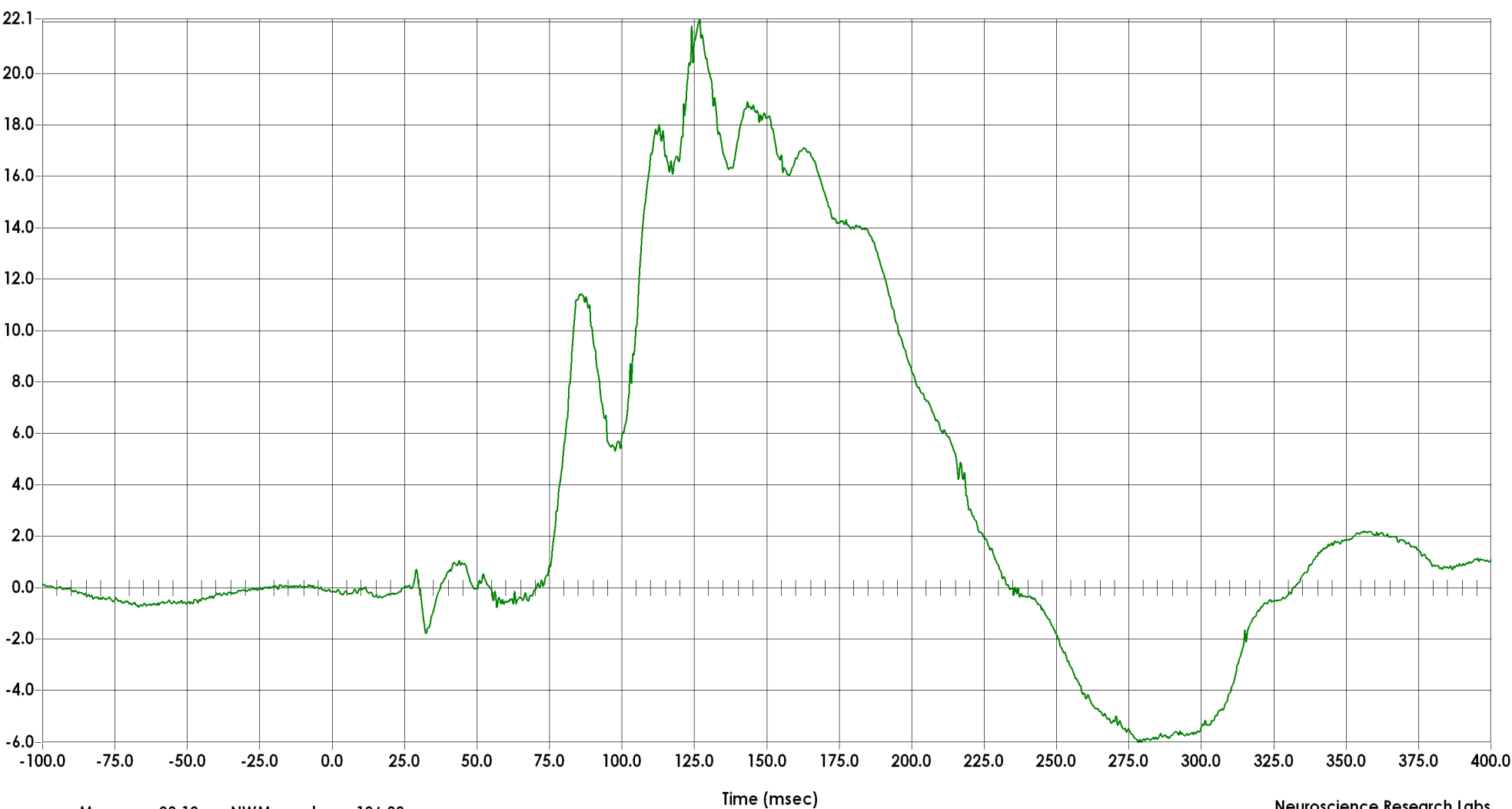
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info Denton 3454J
Serial Number 3454J_75_MX



NWM Driver Upper Neck Loadcell Moment XL



Max 22.12 NWM at 126.88 msec
Min -6.02 NWM at 278.24 msec

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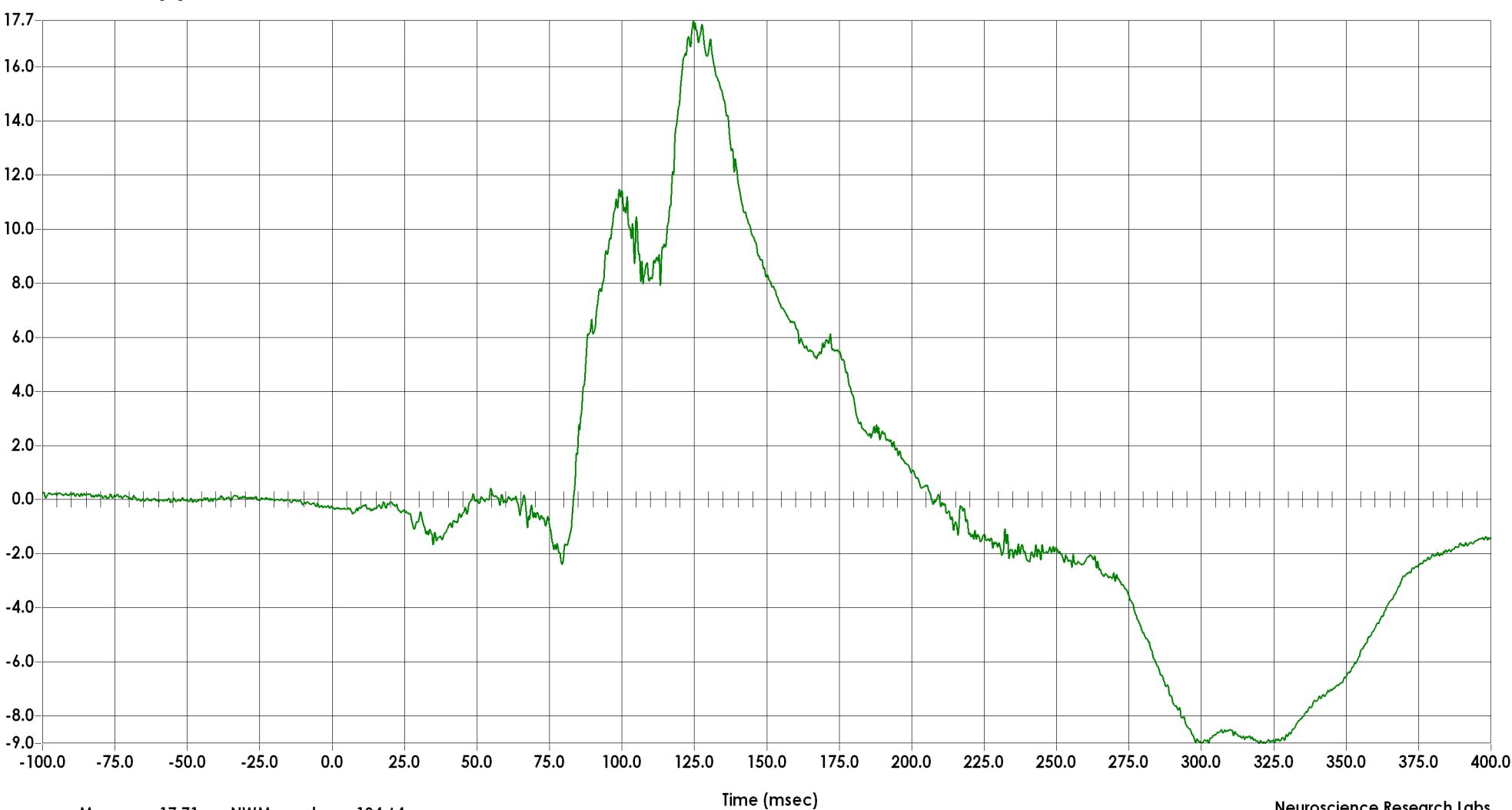
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info Denton 3454J
Serial Number 3454J_75_MY



NWM Driver Upper Neck Loadcell Moment YL



Max 17.71 NWM at 124.64 msec
Min -9.01 NWM at 319.92 msec

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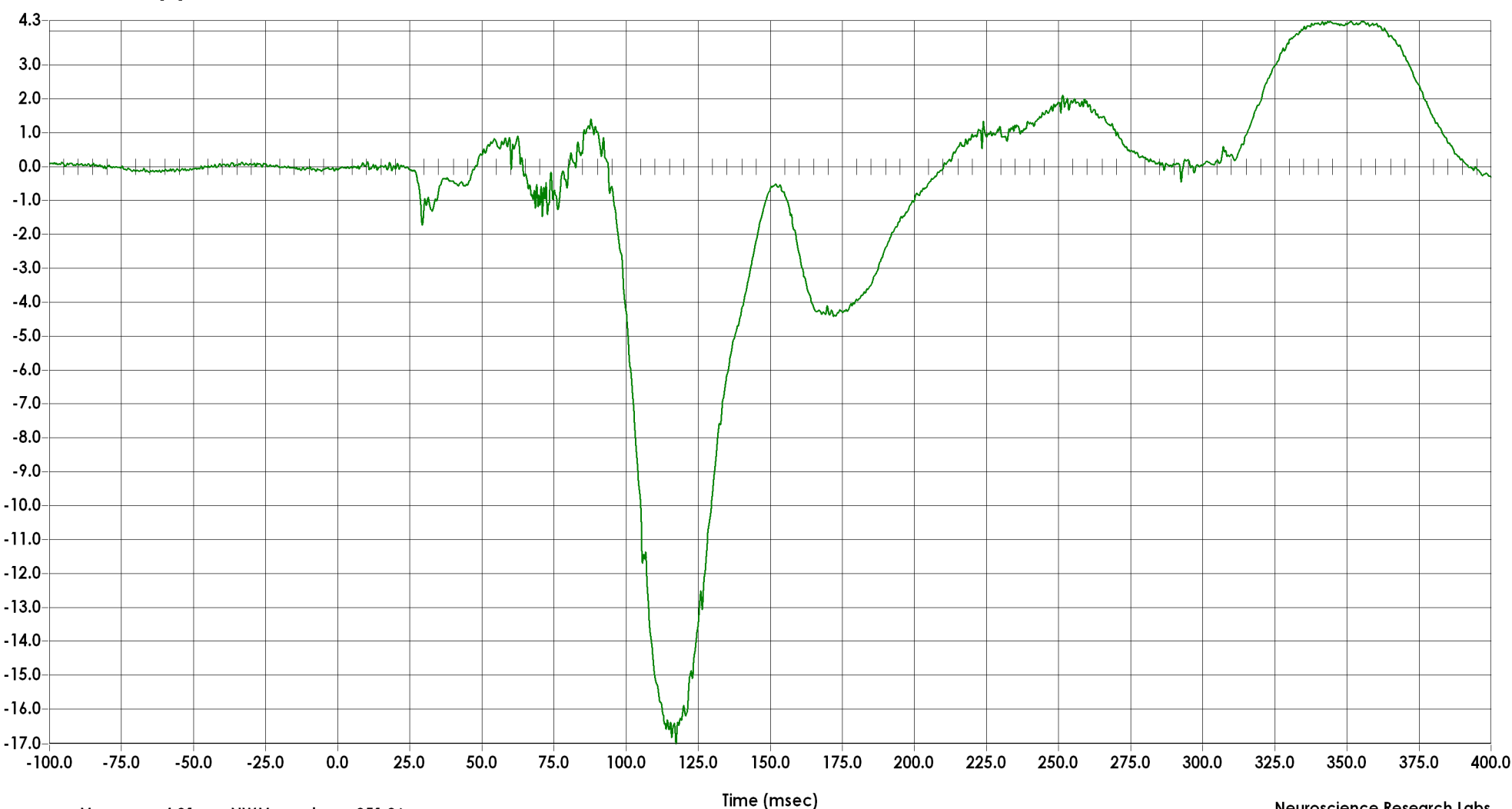
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info Denton 3454J
Serial Number 3454J_75_MZ



NWM Driver Upper Neck Loadcell Moment ZL



Max 4.31 NWM at 351.36 msec
Min -17.03 NWM at 117.36 msec

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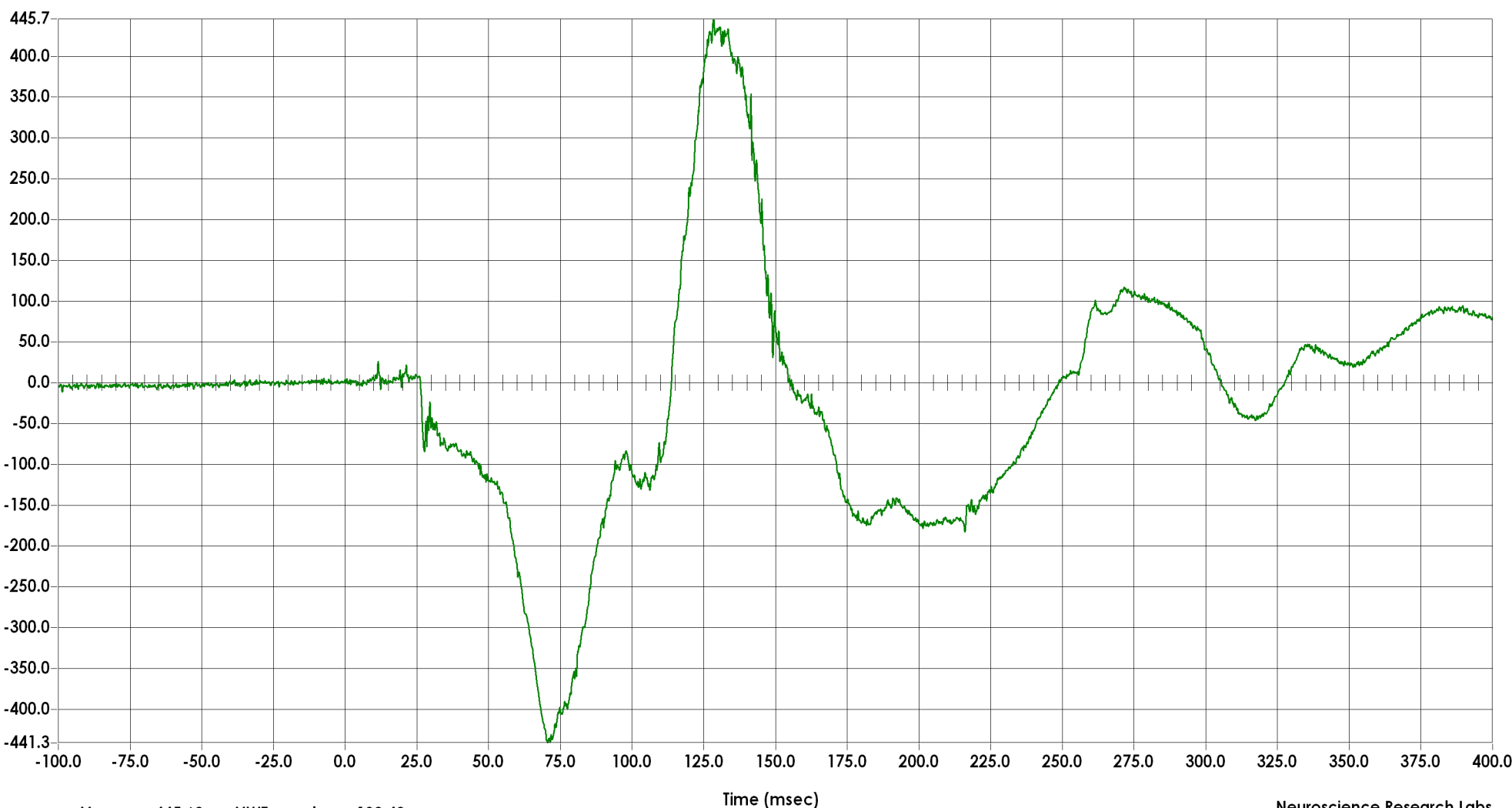
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 4366J
Serial Number 4366J_80_FX



NWT Driver Lower Neck Loadcell Force XL



Max 445.68 NWT at 128.48 msec
Min -441.32 NWT at 70.64 msec

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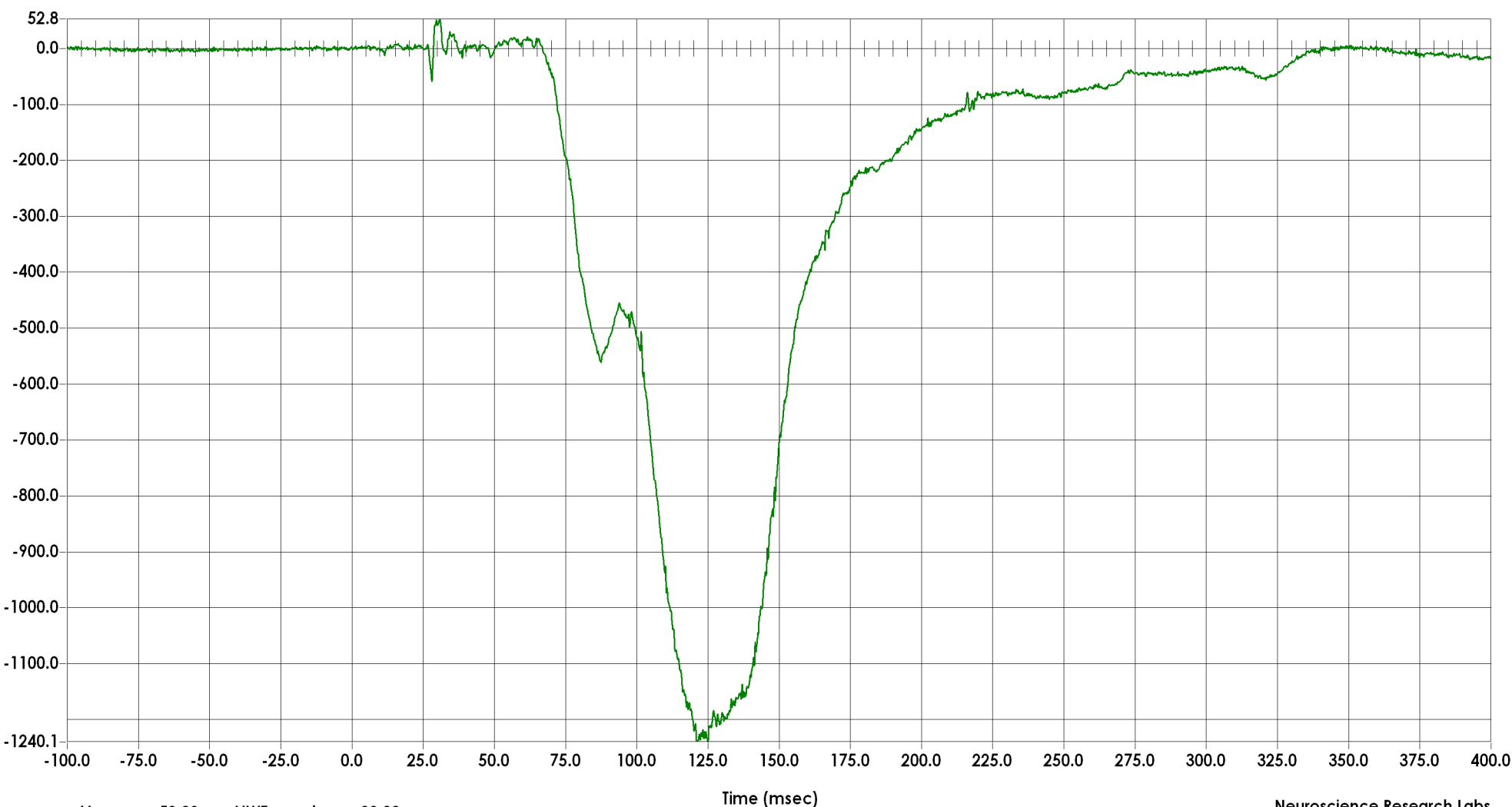
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 4366J
Serial Number 4366J_80_FY



NWT Driver Lower Neck Loadcell Force YL



Max 52.82 NWT at 30.88 msec
Min -1240.09 NWT at 124.96 msec

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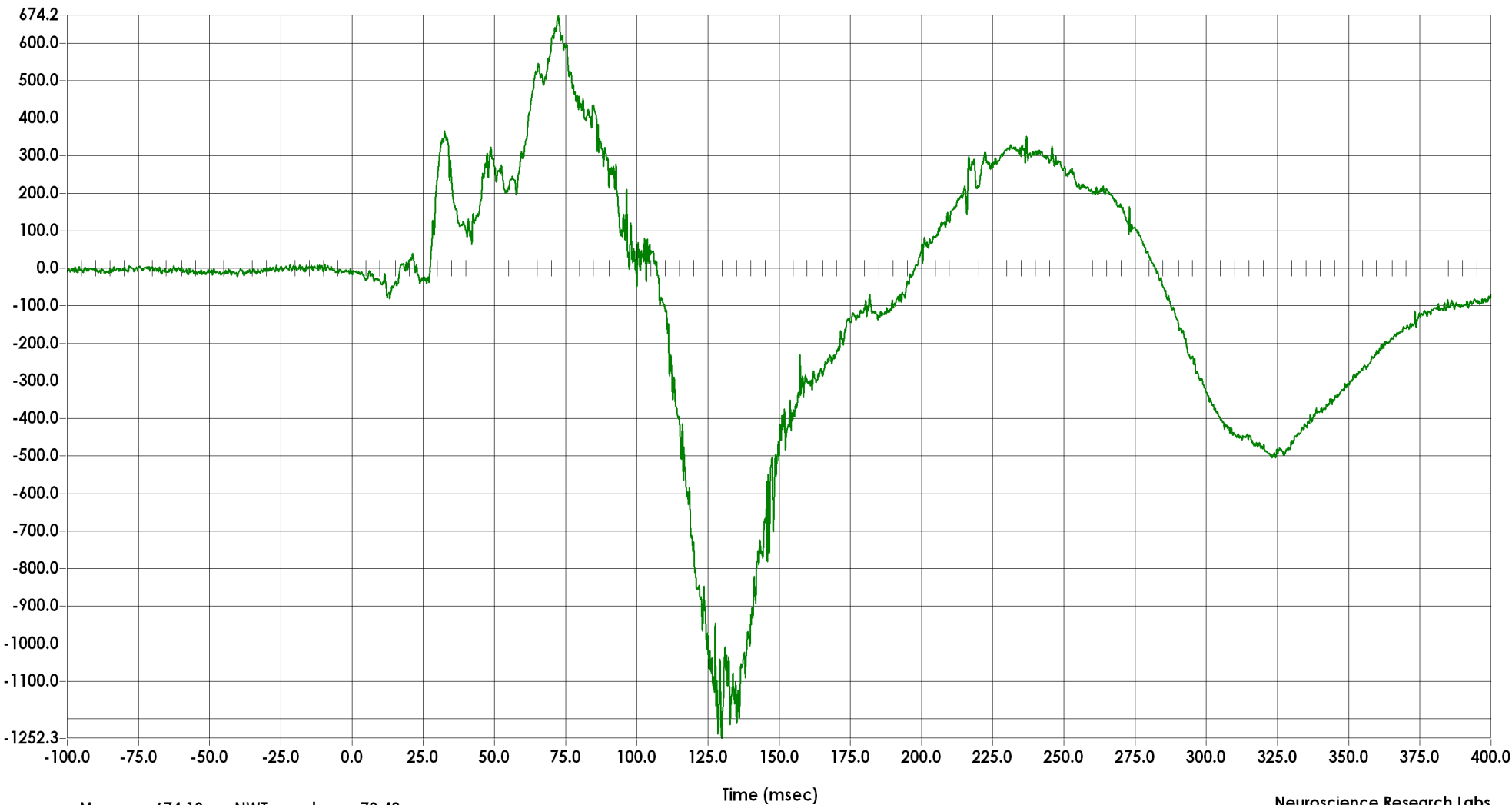
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 4366J
Serial Number 4366J_80_FZ



NWT Driver Lower Neck Loadcell Force ZL



Max 674.19 NWT at 72.48 msec
Min -1252.31 NWT at 129.84 msec

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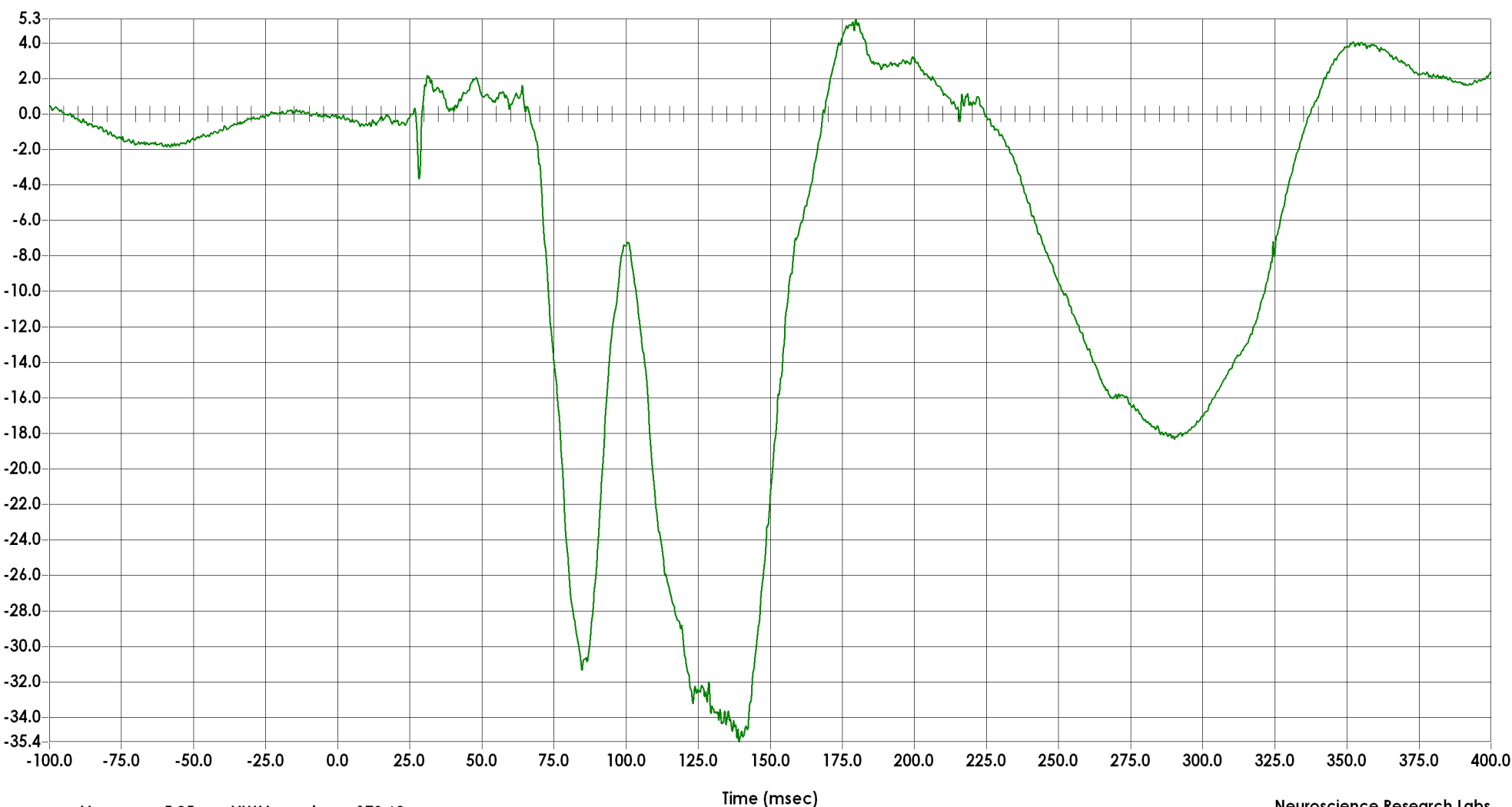
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 4366J
Serial Number 4366J_80_MX



NWM Driver Lower Neck Loadcell Moment XL



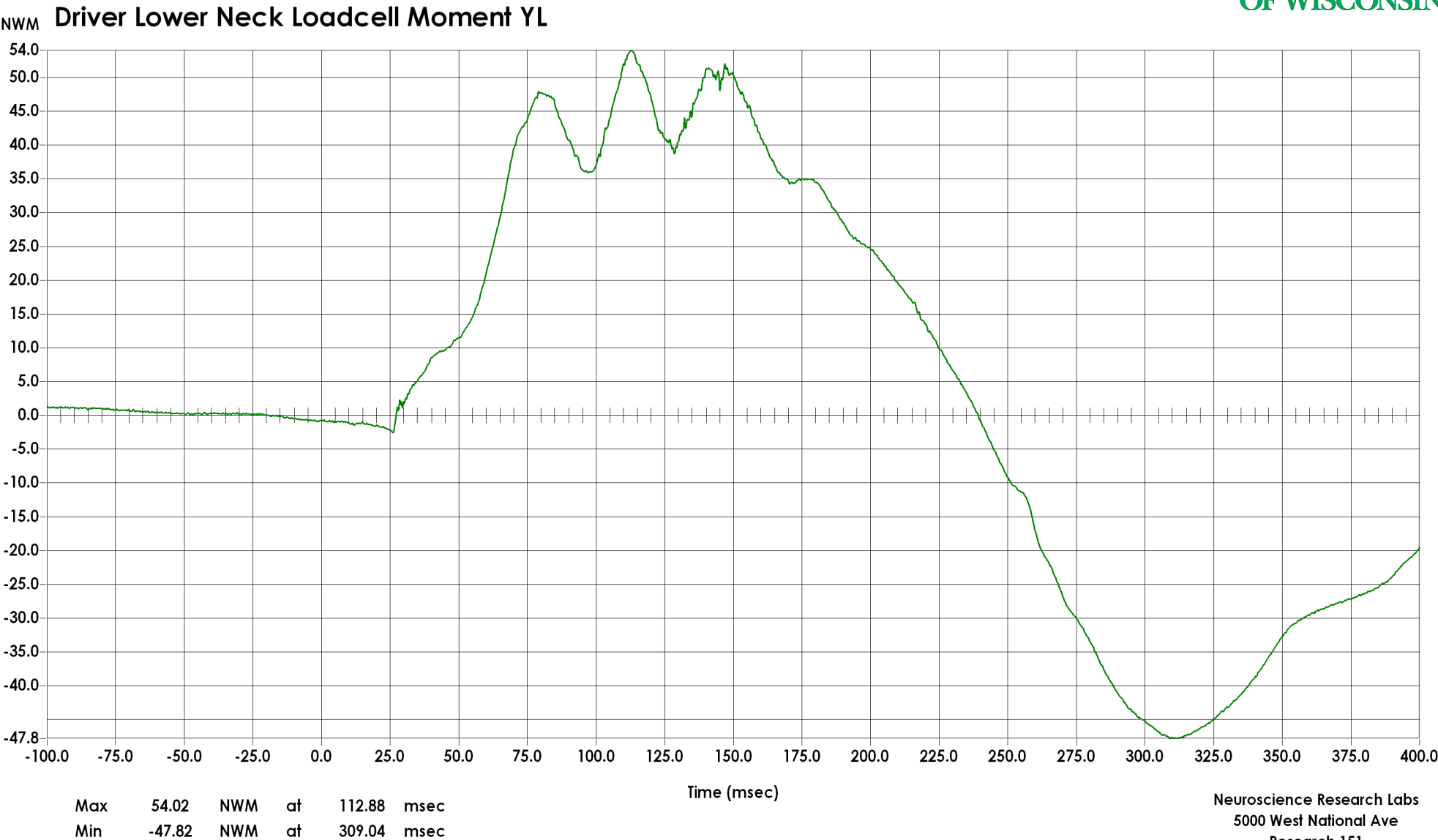
Max 5.35 NWM at 179.68 msec
Min -35.39 NWM at 139.20 msec

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Milwaukee, WI 53295

Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 4366J
Serial Number 4366J_80_MY



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKL
Sensor Info Denton 4366J
Serial Number 4366J_80_MZ



NWM Driver Lower Neck Loadcell Moment ZL



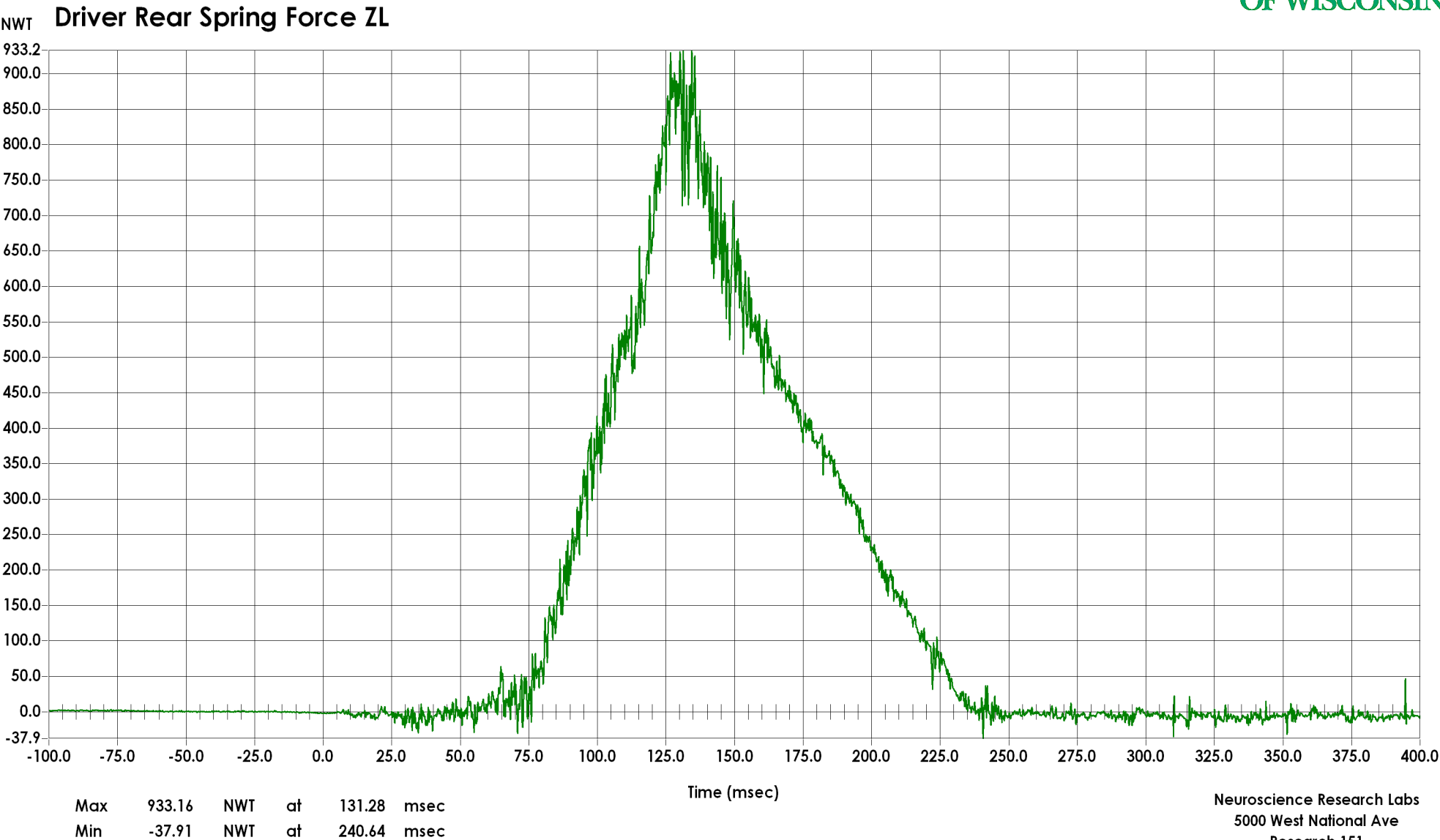
Max 12.63 NWM at 134.96 msec
Min -2.31 NWM at 30.96 msec

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5000 West National Ave
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Milwaukee, WI 53295

Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info Denton 6005
Serial Number 6005J_75_FZ



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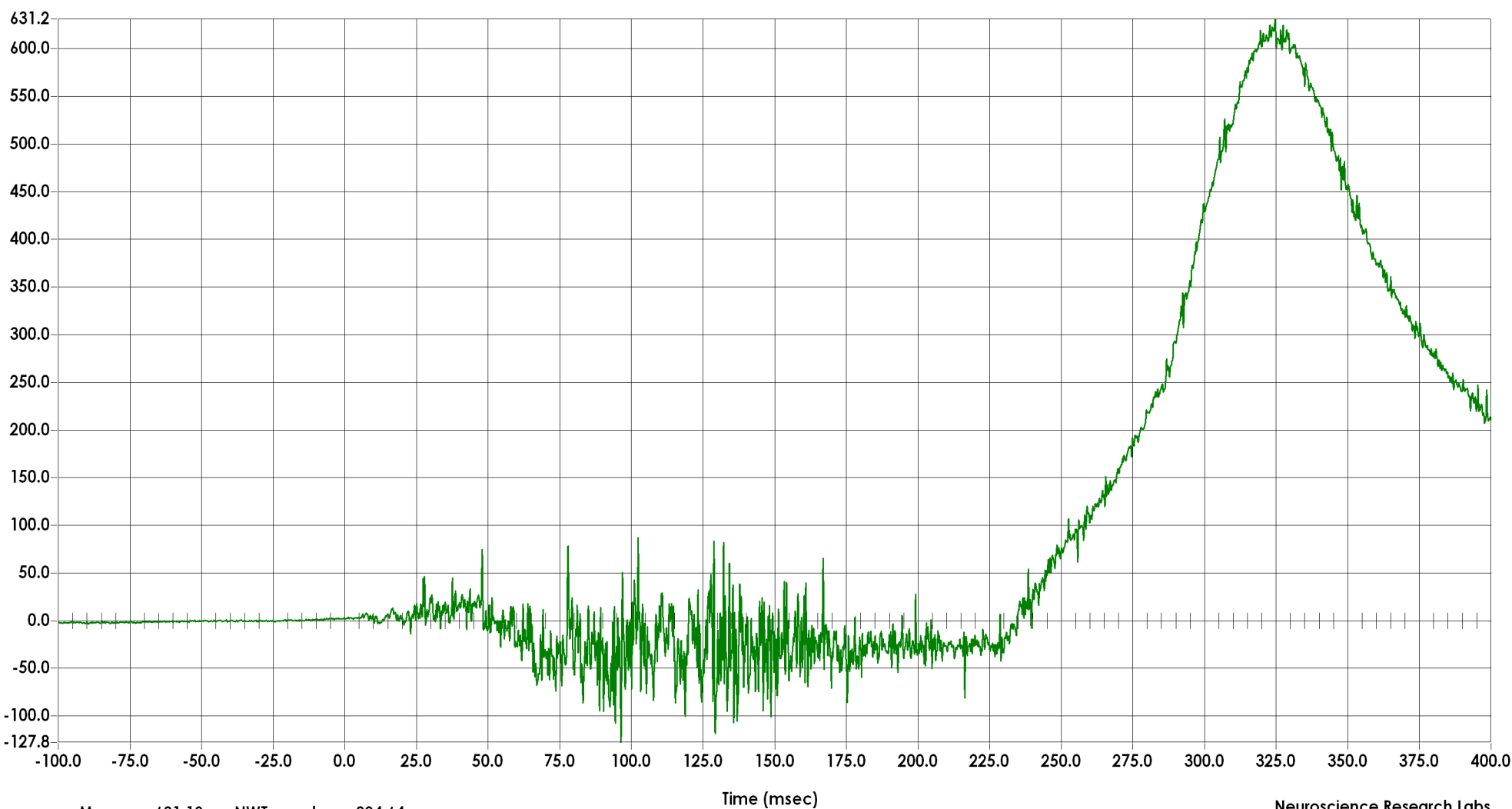
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location OTHR
Sensor Info Denton 6005
Serial Number 6005J_80_FZ



NWT Driver Front Spring Force ZL



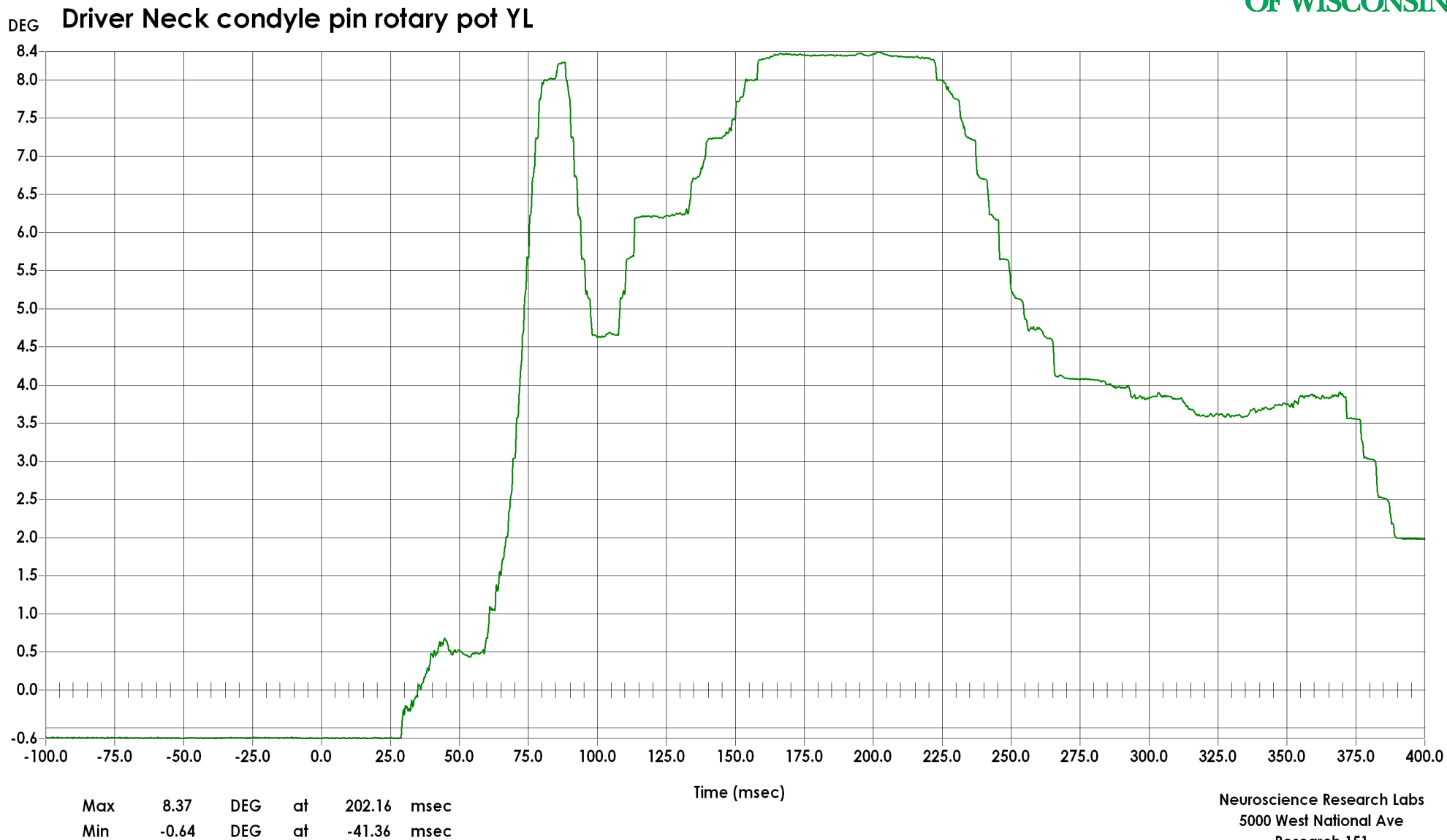
Max 631.19 NWT at 324.64 msec
Min -127.79 NWT at 96.40 msec

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Milwaukee, WI 53295

Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location NEKU
Sensor Info CONTELEC PD210-4B
Serial Number 0509



Test ID

Date

Description

SOI002

02-03-2010

2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter

Sampling Rate (Hz)

Number of Points

Pretrigger Points

CFC1000

12500

10000

1250

Sensor Location

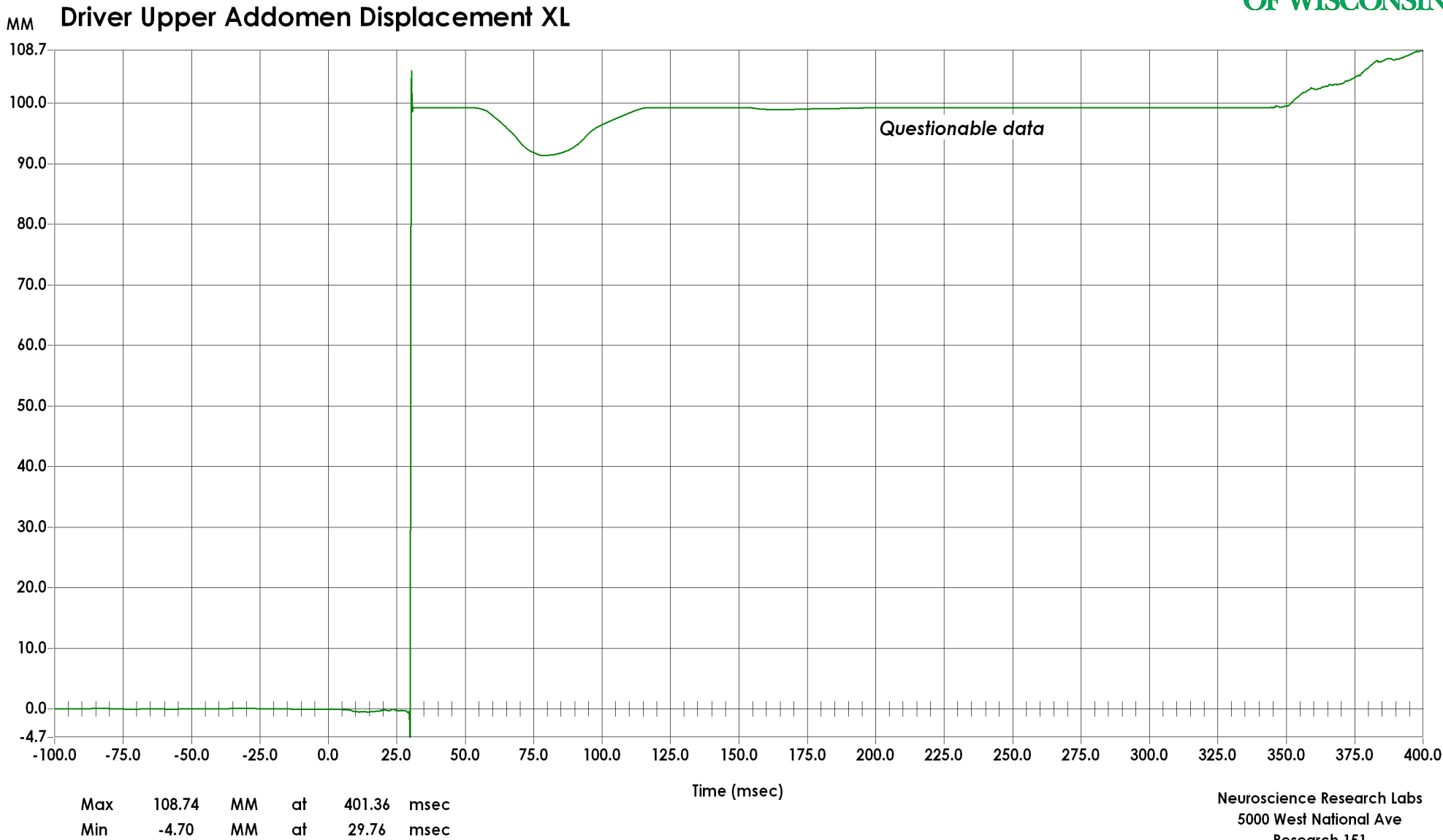
Sensor Info

Serial Number

ABDU

Space Age 300647

0252

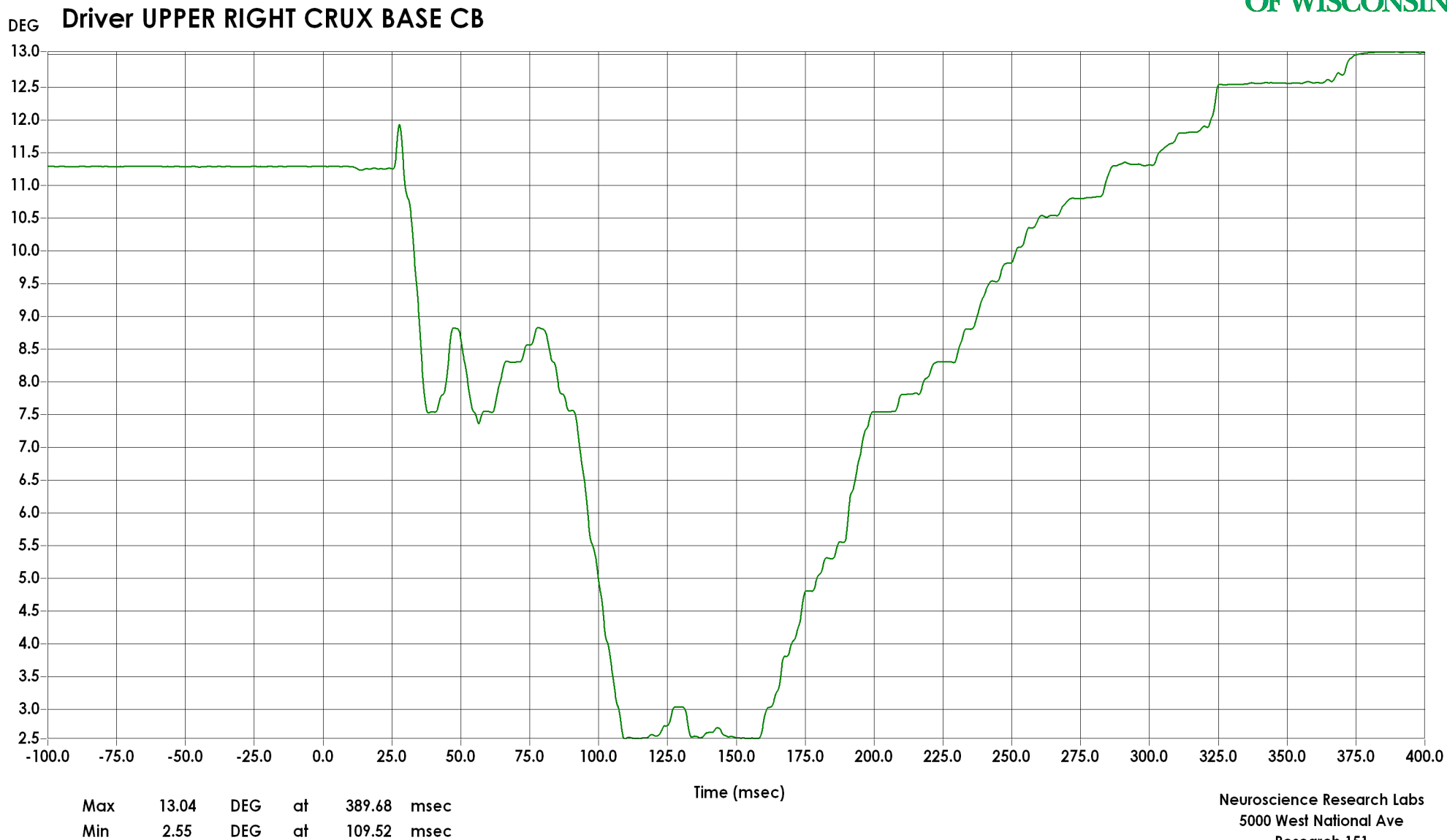


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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHRU
Sensor Info CONTELEC PD210-4B
Serial Number 0514



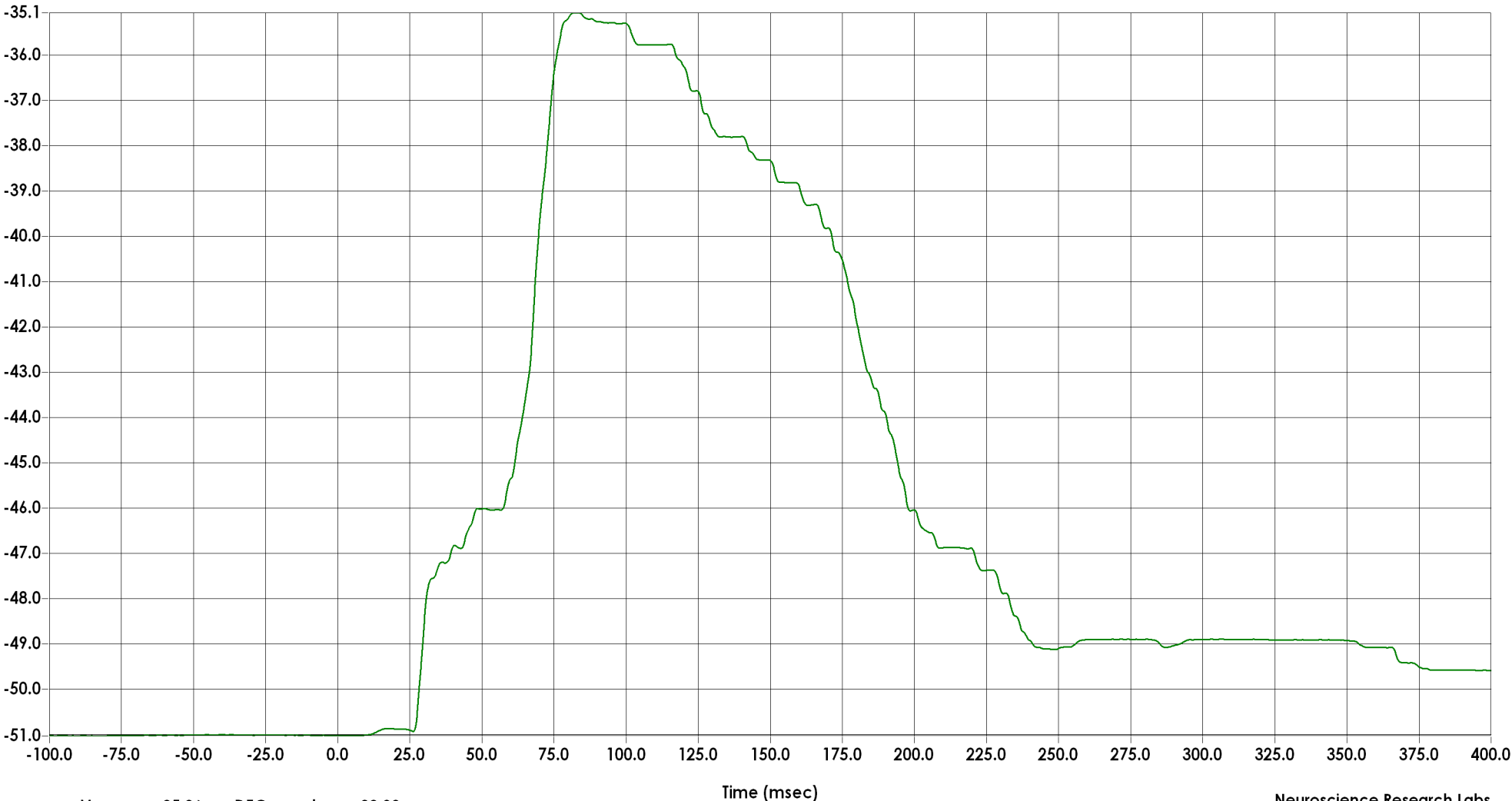
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHRU
Sensor Info CONTELEC PD210-4B
Serial Number 0513



DEG Driver UPPER RIGHT CRUX MID CM



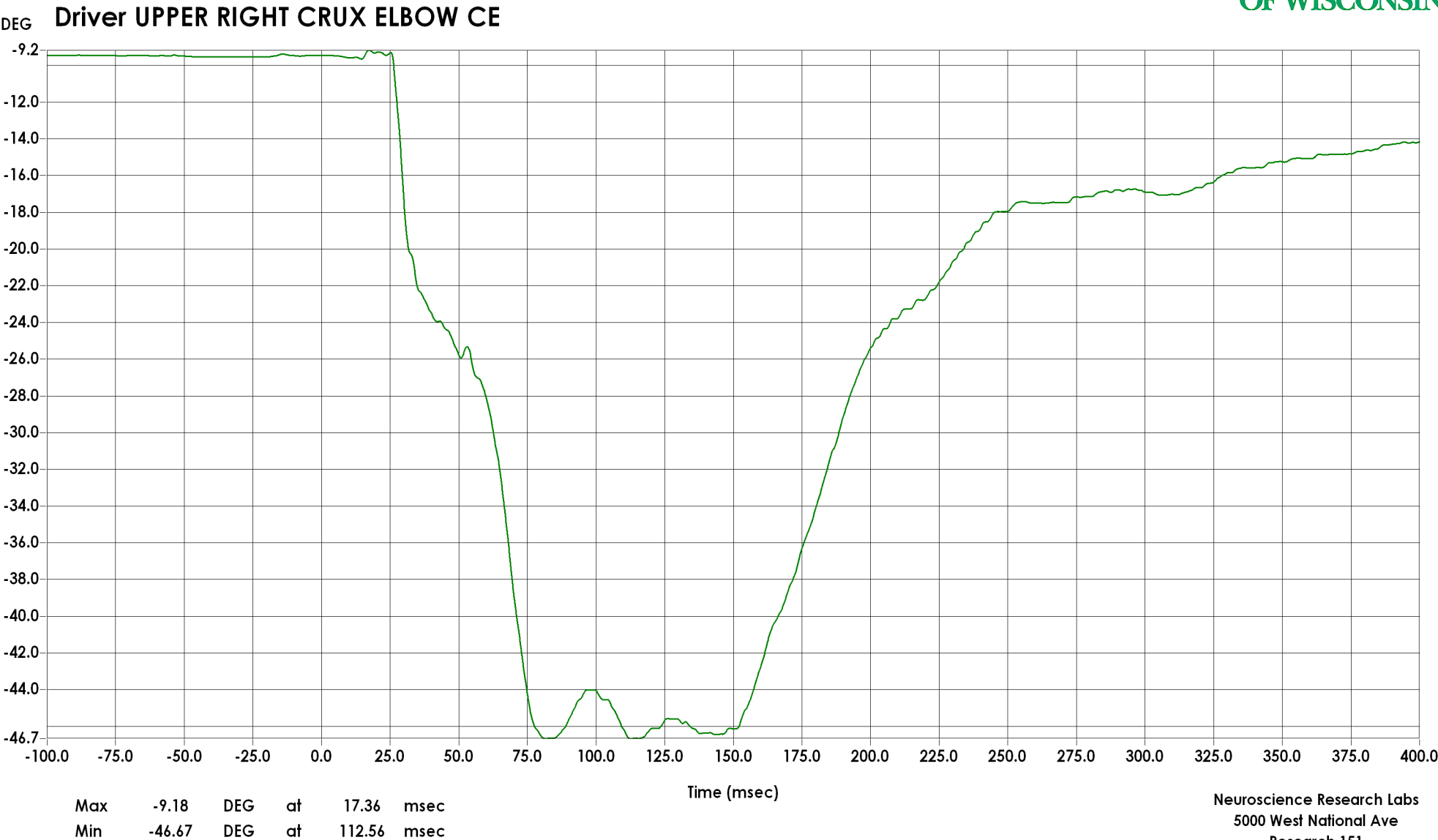
Max -35.06 DEG at 83.20 msec
Min -51.03 DEG at -81.44 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHRU
Sensor Info CONTELEC PD210-4B
Serial Number 0391



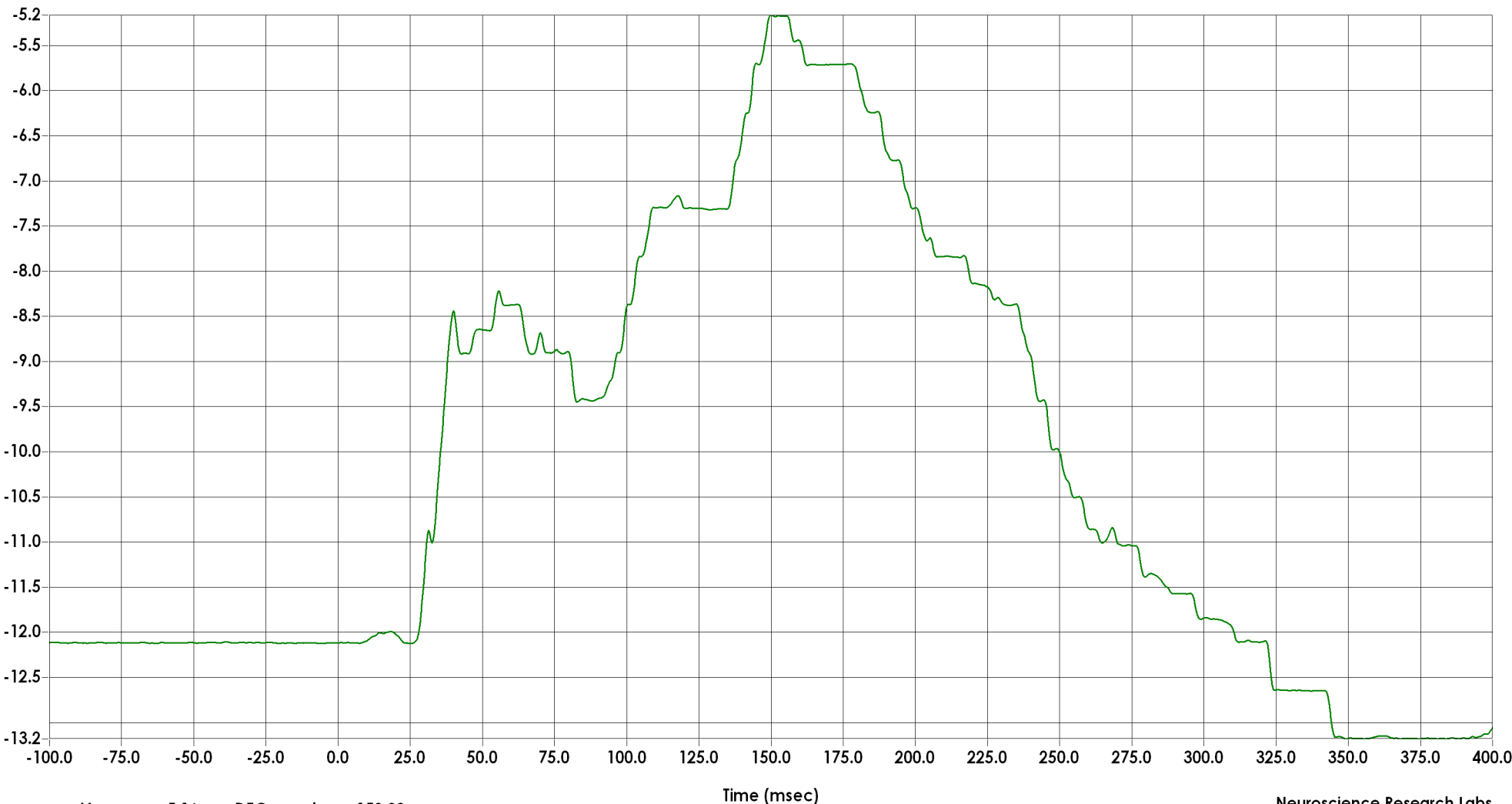
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHLU
Sensor Info CONTELEC PD210-4B
Serial Number 0274



DEG Driver UPPER LEFT CRUX BASE CB



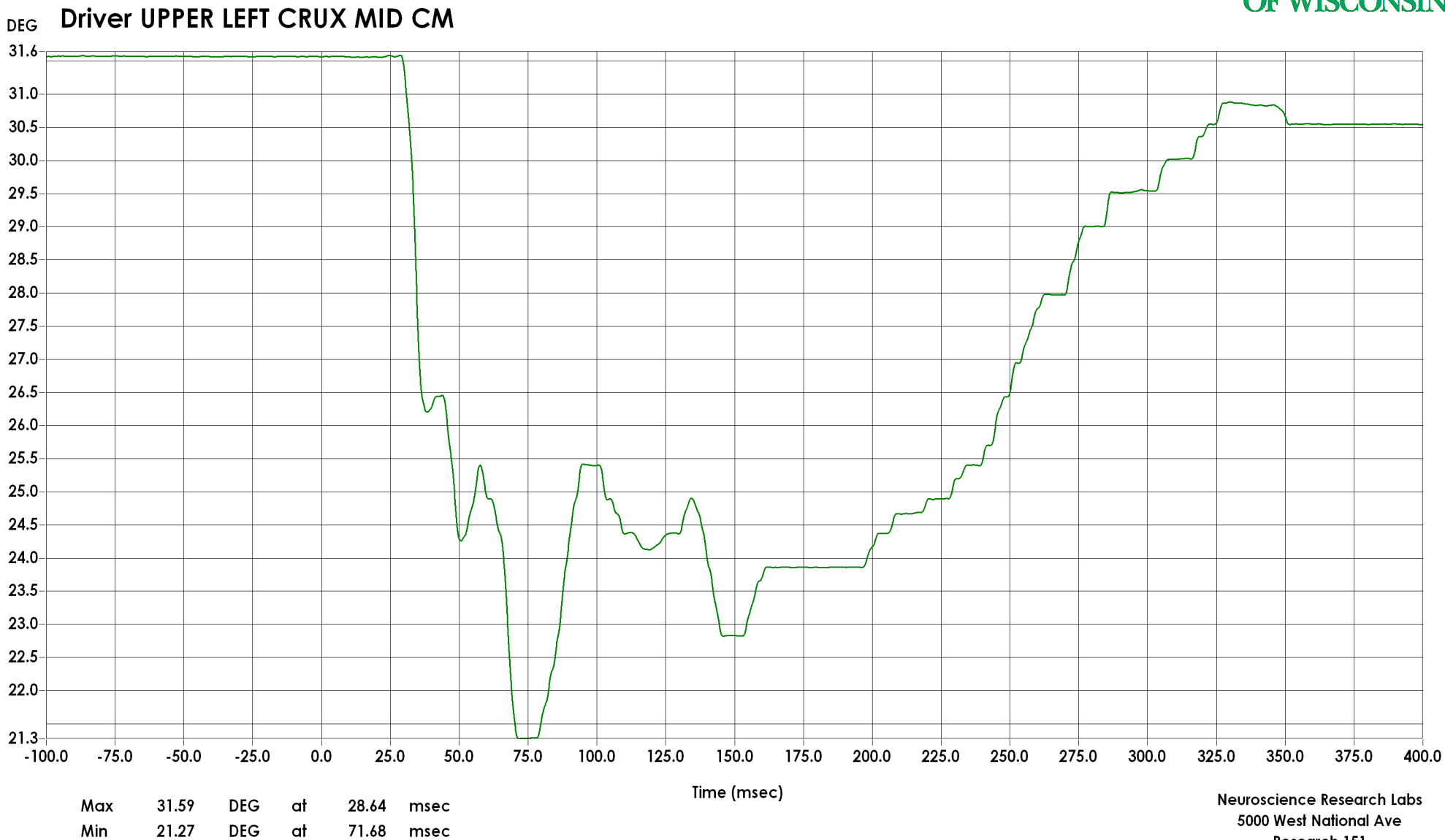
Max -5.16 DEG at 150.08 msec
Min -13.18 DEG at 349.28 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

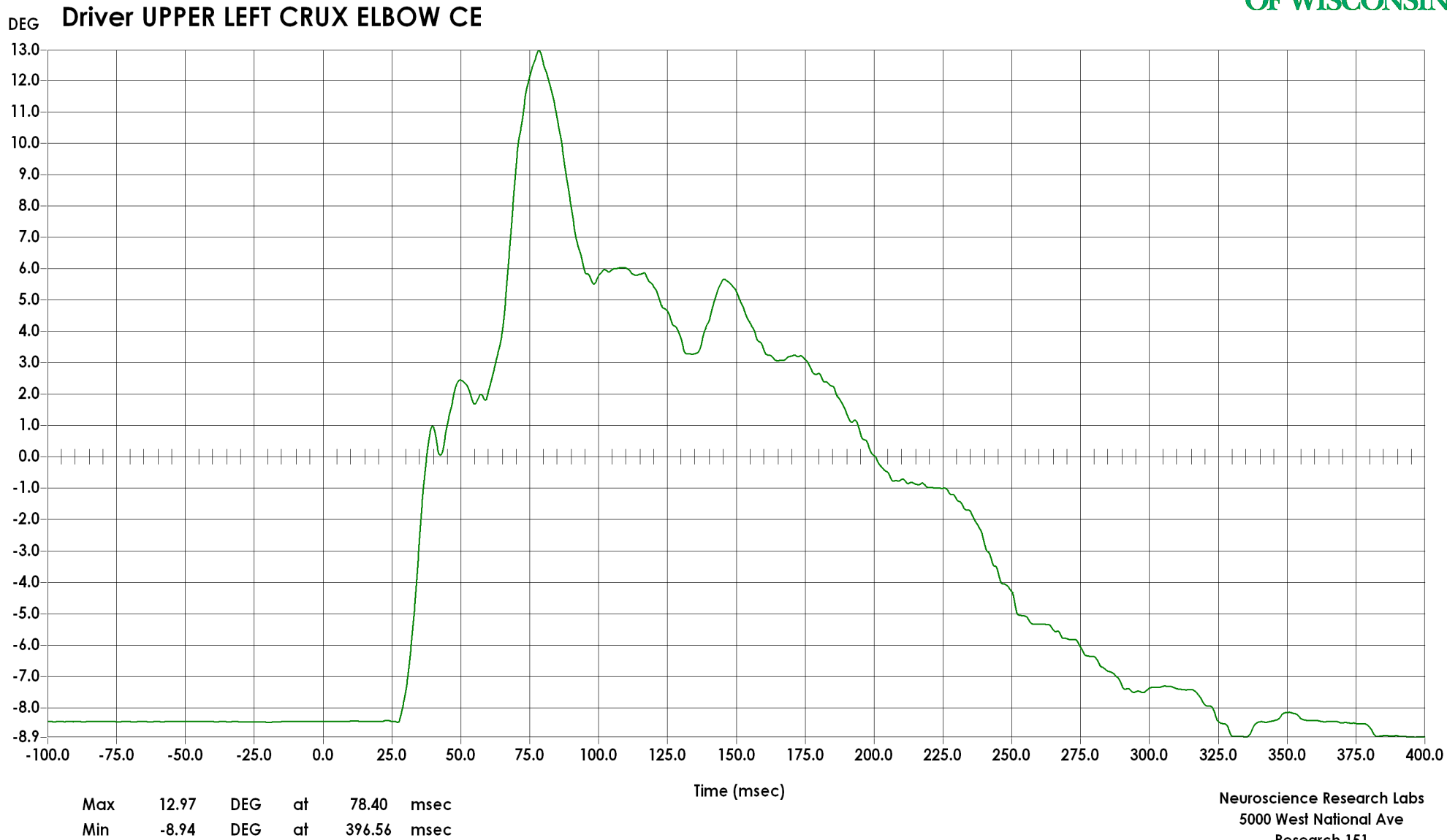
Sensor Location CHLU
Sensor Info CONTELEC PD210-4B
Serial Number 0373



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHLU
Sensor Info CONTELEC PD210-4B
Serial Number 0272

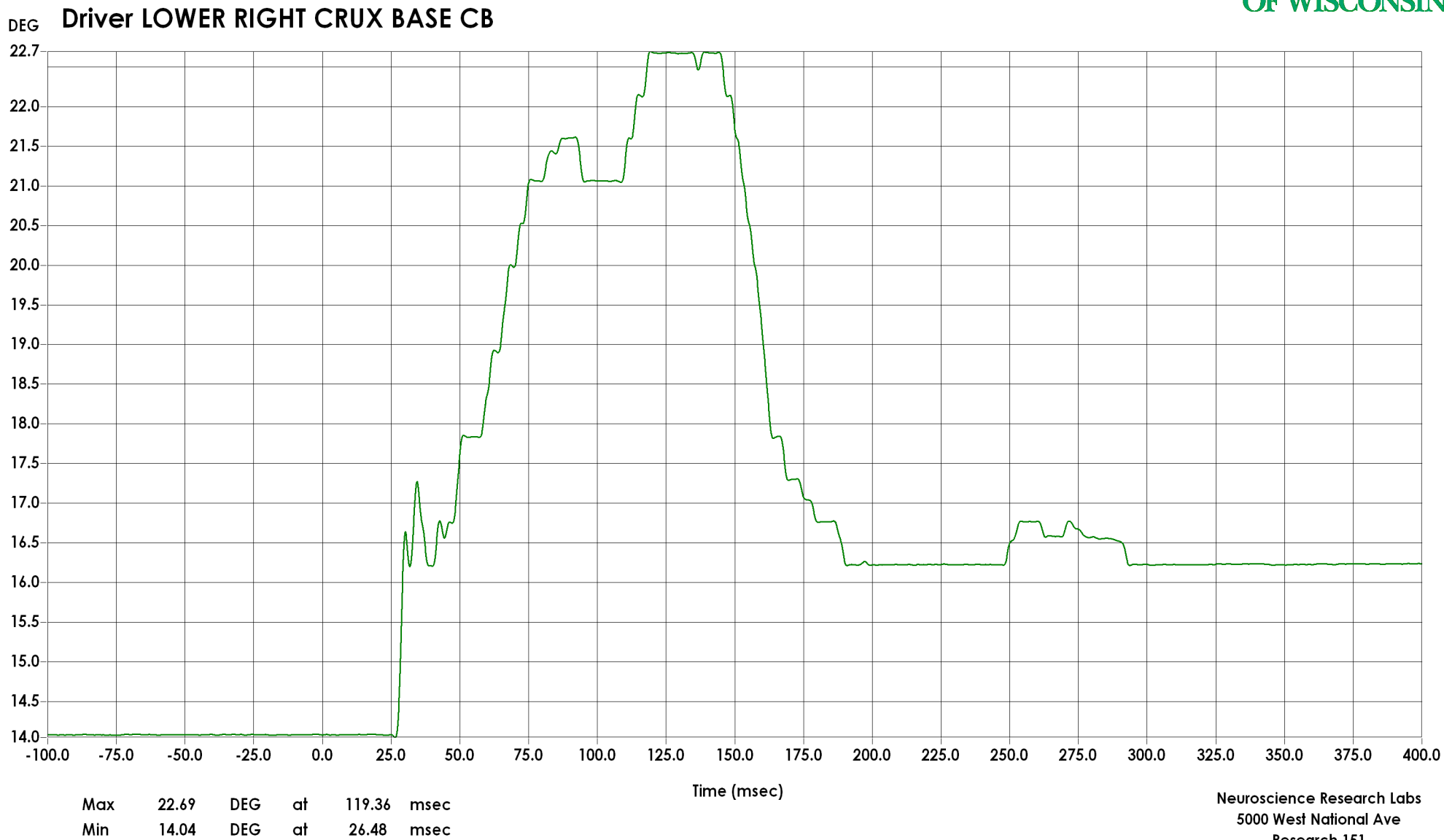


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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHRL
Sensor Info CONTELEC PD210-4B
Serial Number 0278

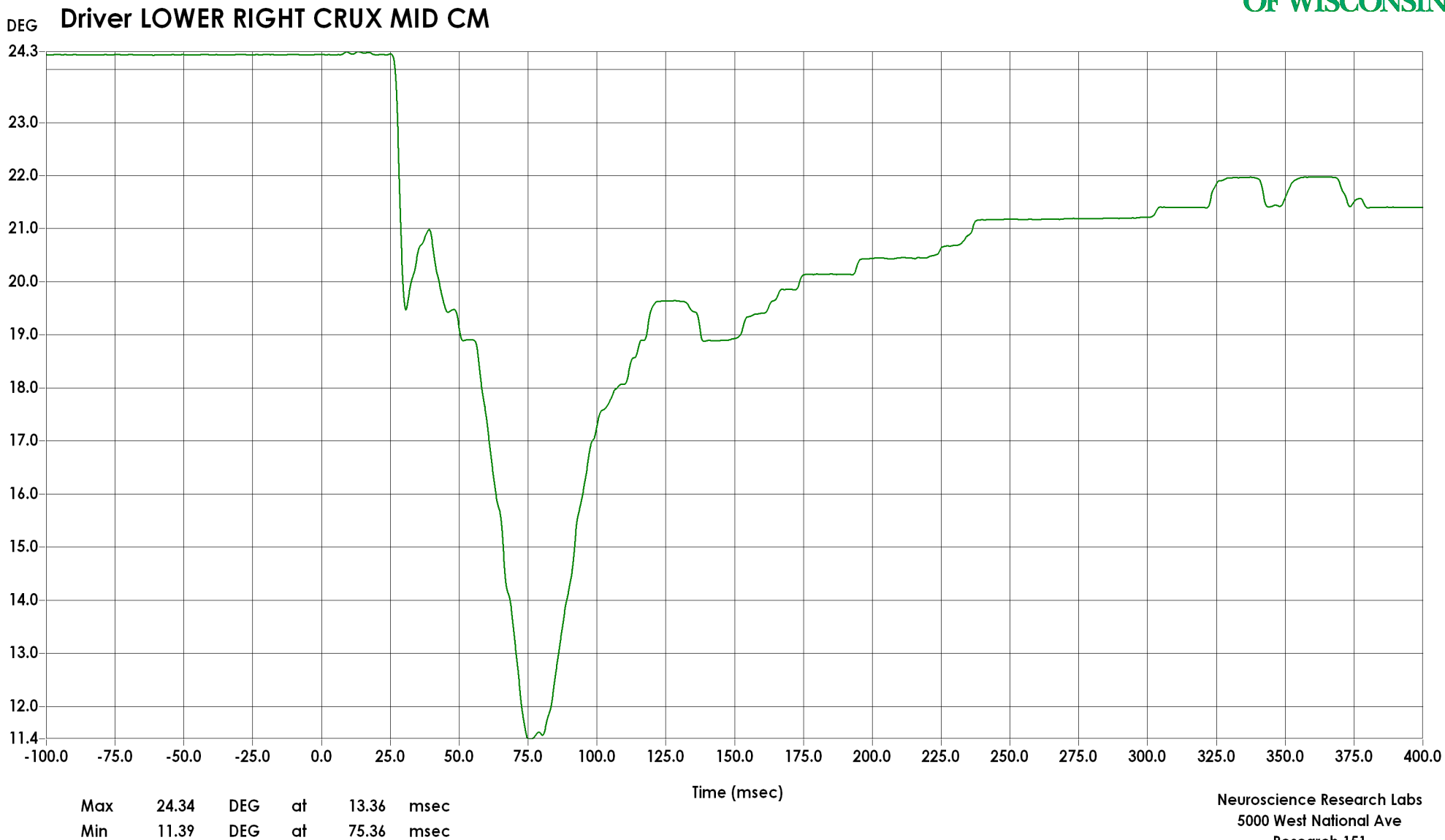


SOI002 Plot 137

Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHRL
Sensor Info CONTELEC PD210-4B
Serial Number 0463



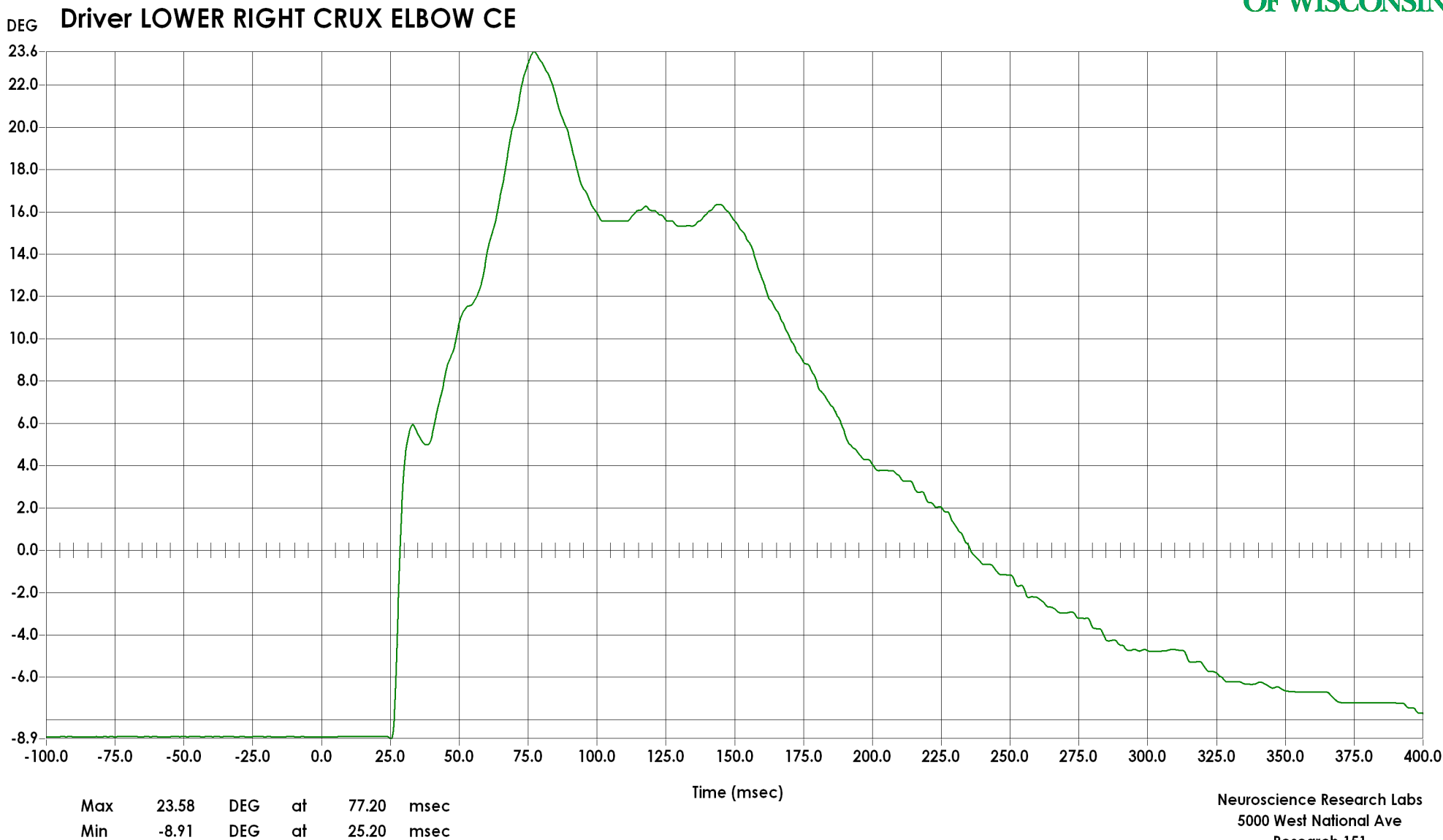
SOI002 Plot 138

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHRL
Sensor Info CONTELEC PD210-4B
Serial Number 0004



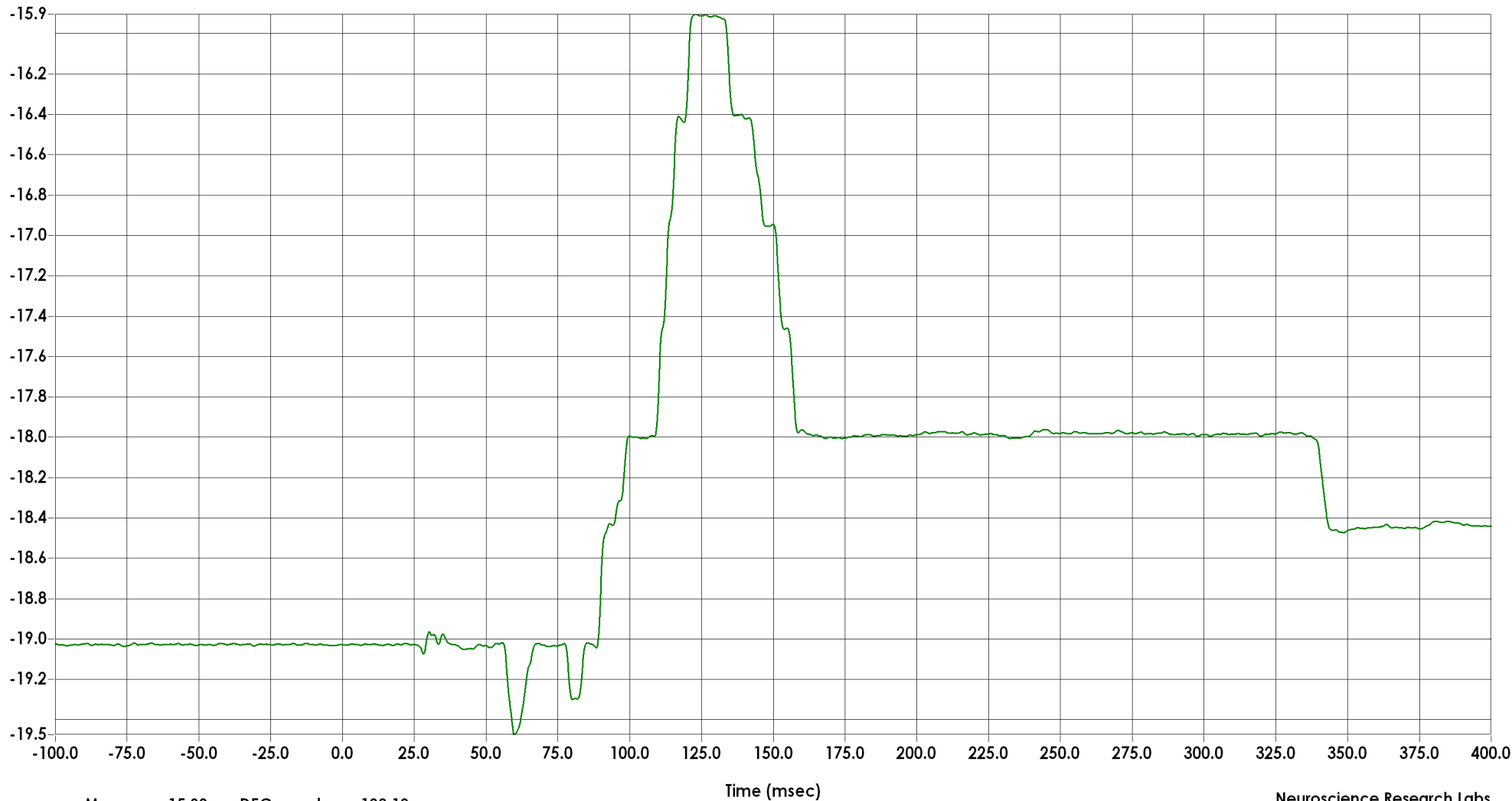
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHLL
Sensor Info CONTELEC PD210-4B
Serial Number 0506



DEG Driver LOWER LEFT CRUX BASE CB



Max -15.90 DEG at 123.12 msec
Min -19.47 DEG at 59.92 msec

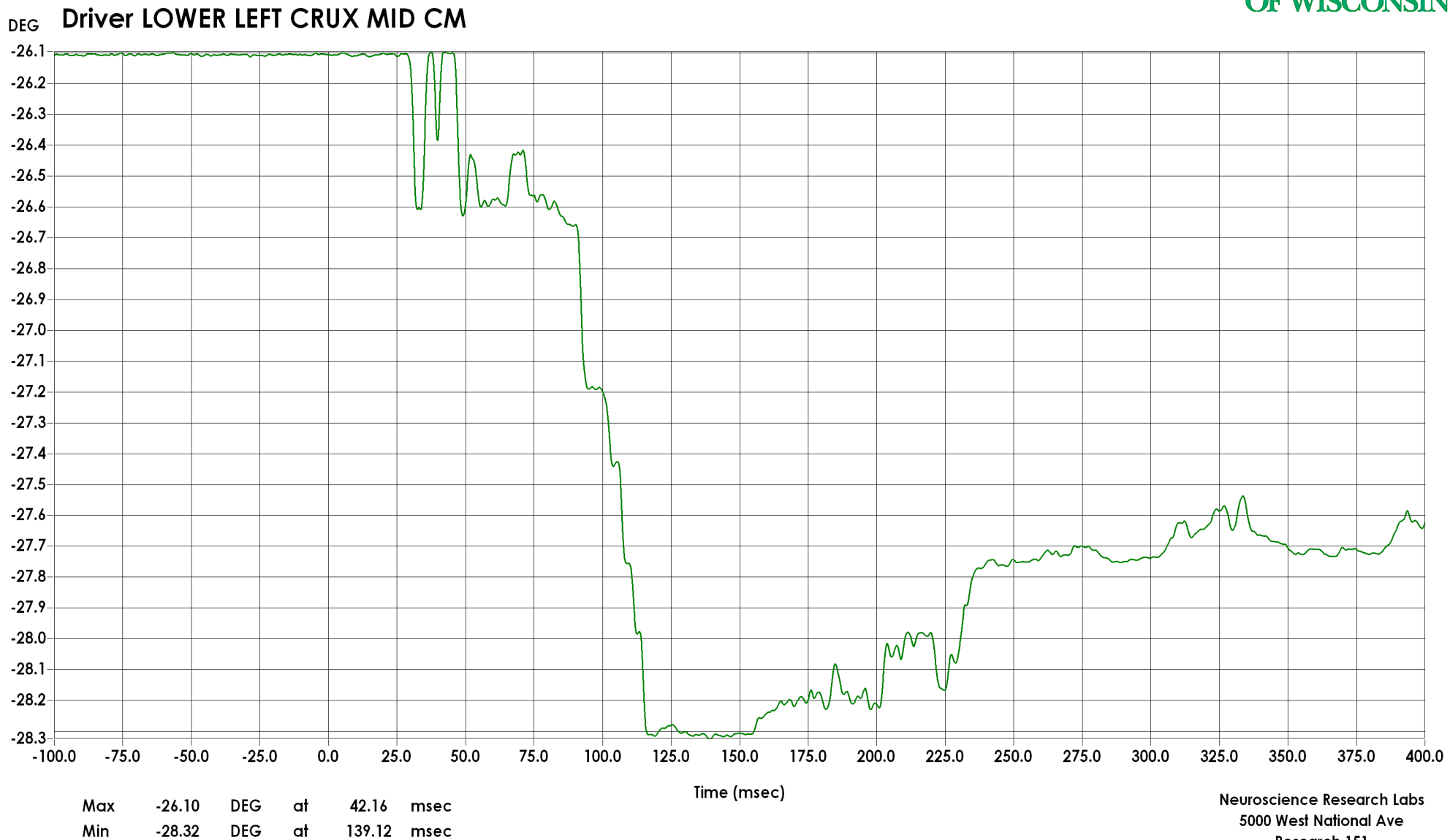
SOI002 Plot 140

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHLL
Sensor Info CONTELEC PD210-4B
Serial Number 0591



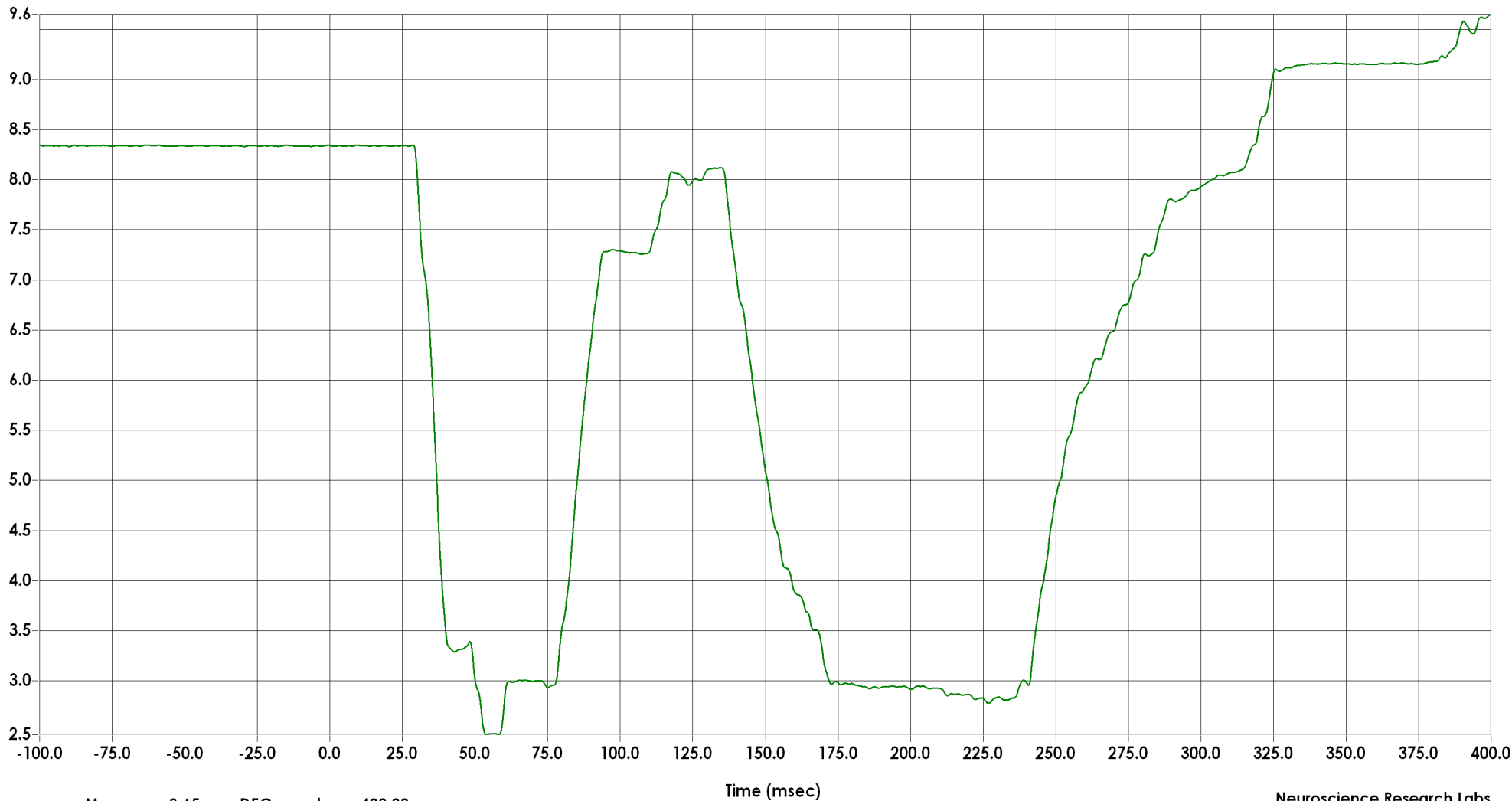
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location CHLL
Sensor Info CONTELEC PD210-4B
Serial Number 0592



DEG Driver LOWER LEFT CRUX ELBOW CE



Max 9.65 DEG at 400.00 msec
Min 2.46 DEG at 53.84 msec

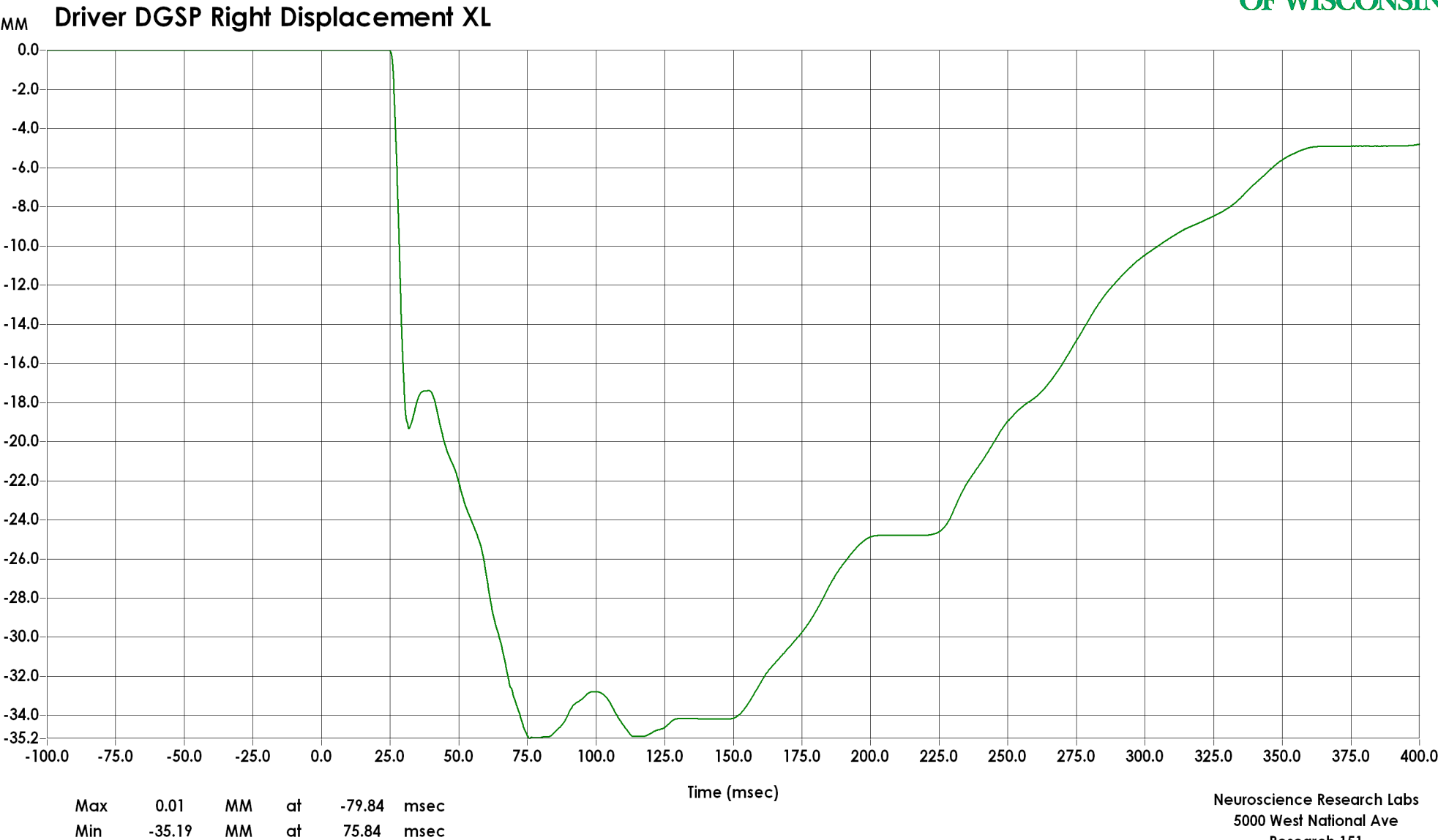
SOI002 Plot 142

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

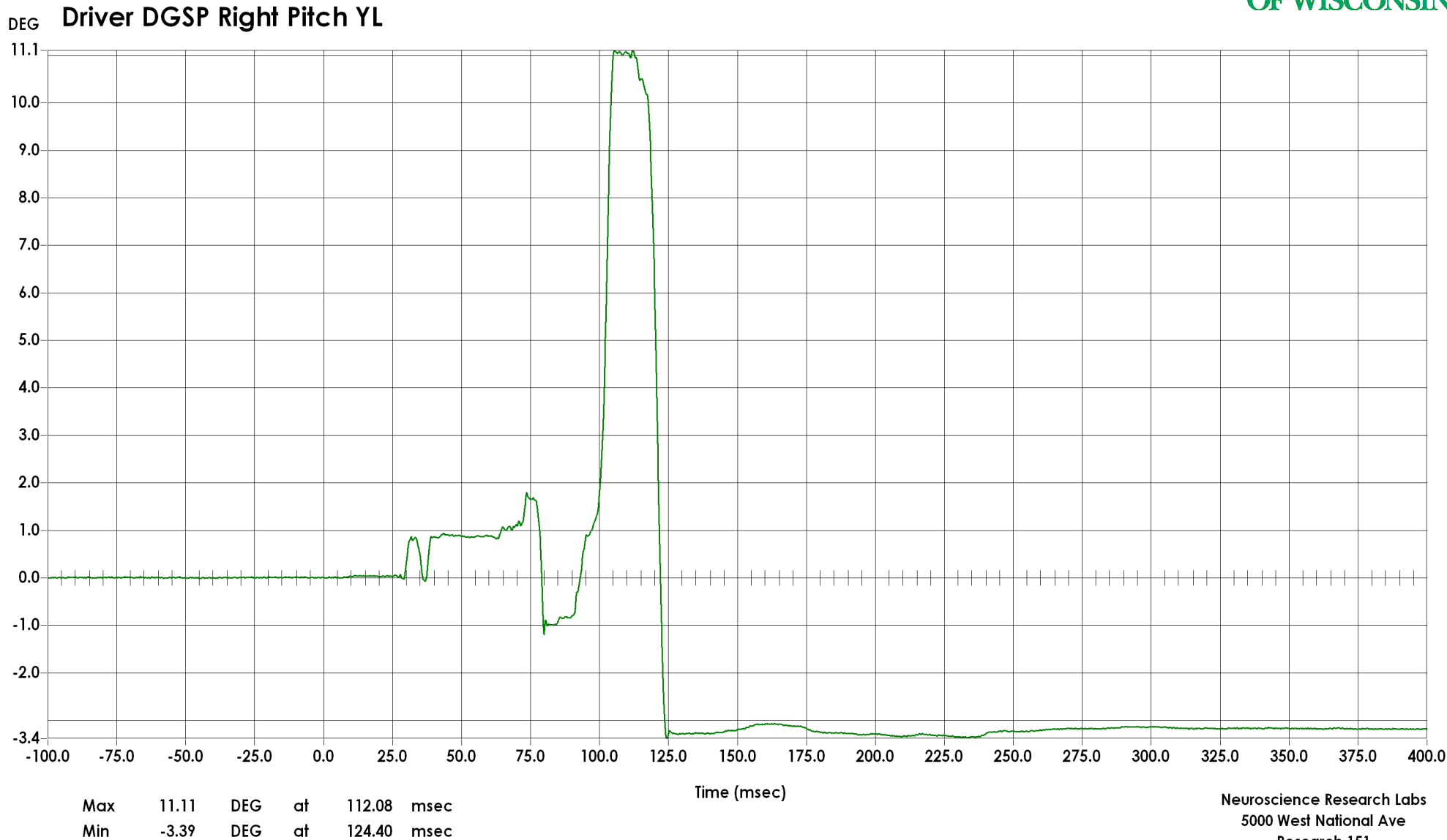
Sensor Location ABDR
Sensor Info Space Age
Serial Number 0257



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location ABRD
Sensor Info Space Age
Serial Number 0105

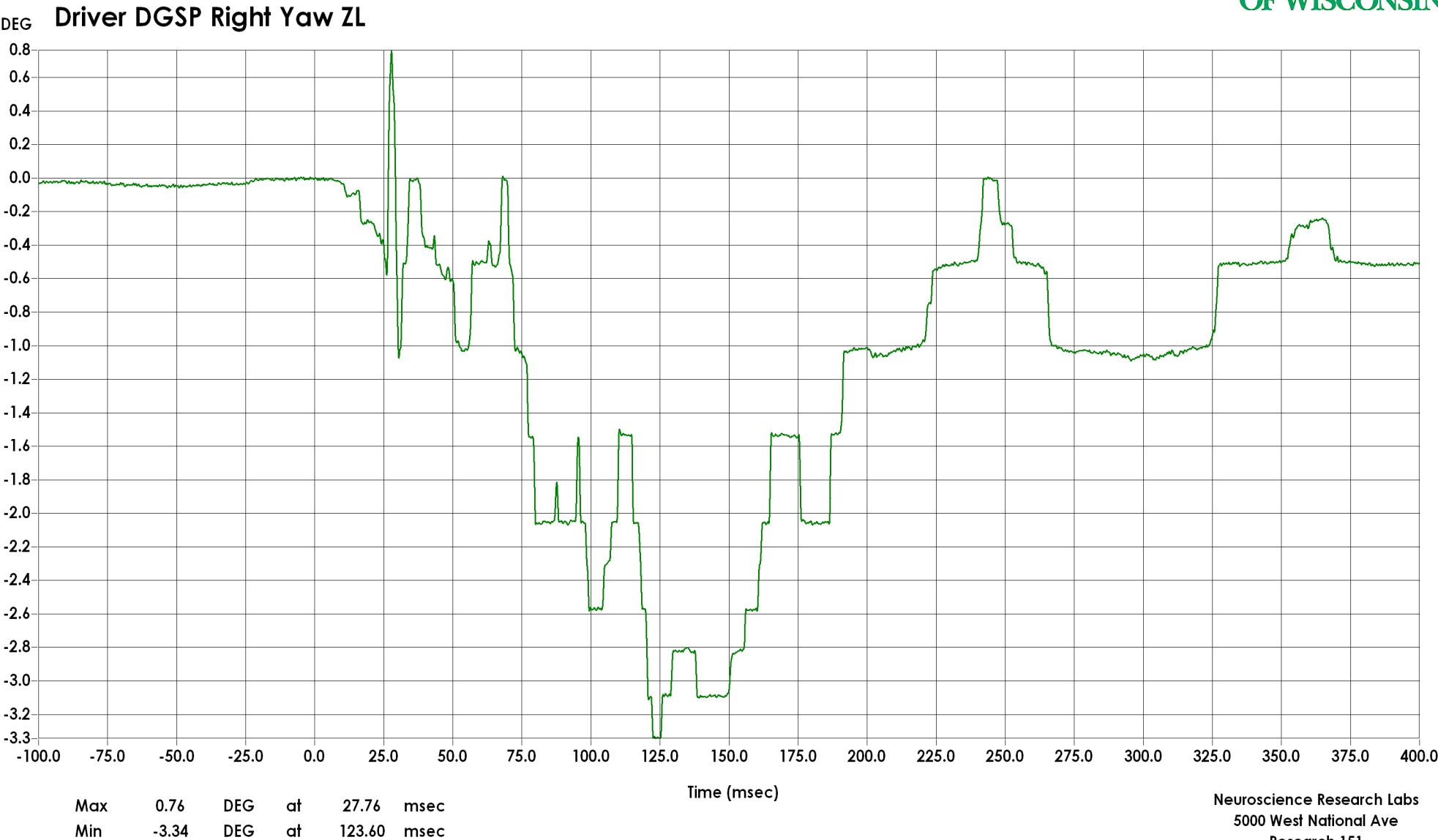


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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

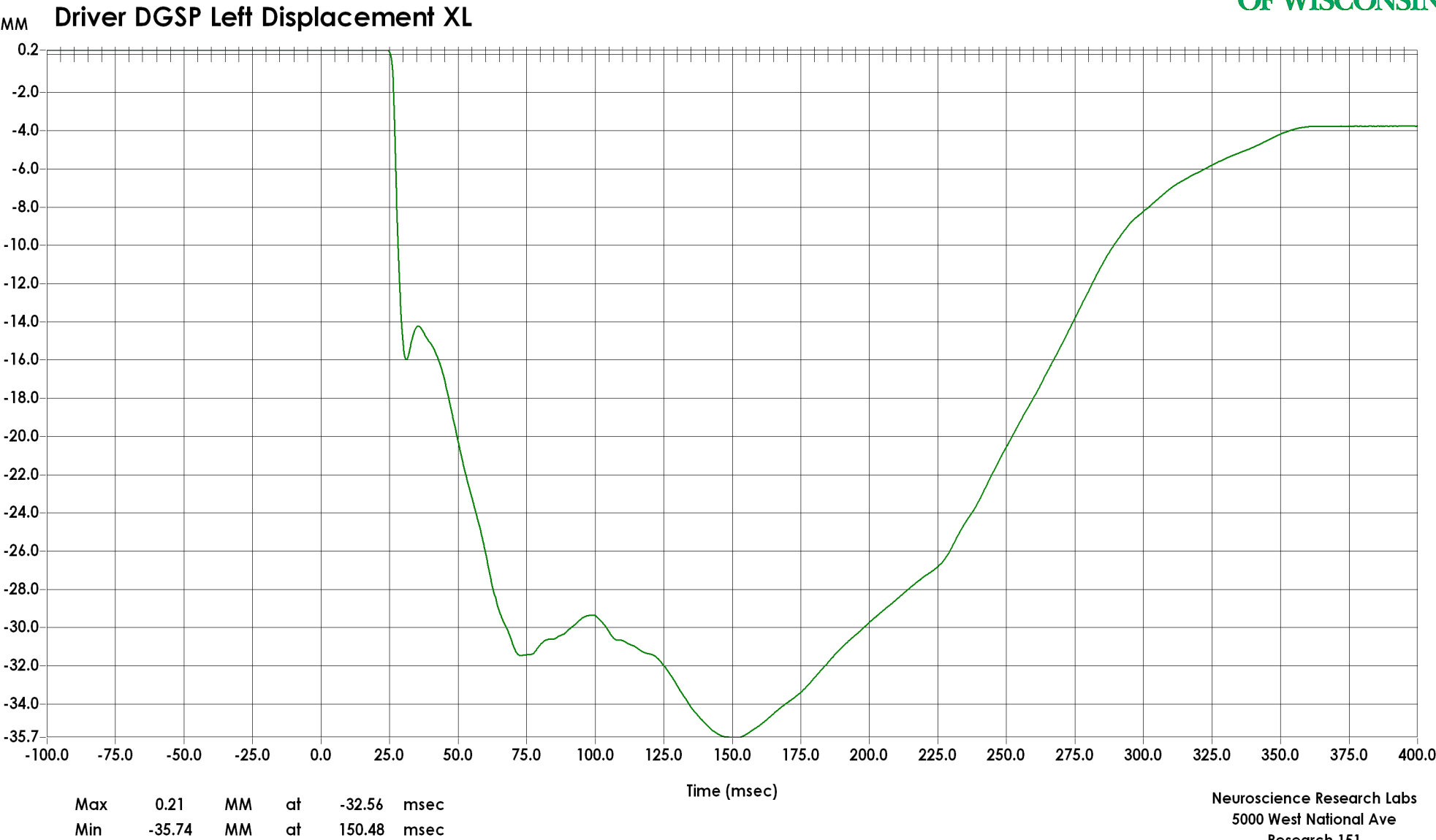
Sensor Location ABDL
Sensor Info Space Age PD210-4B
Serial Number 0340



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

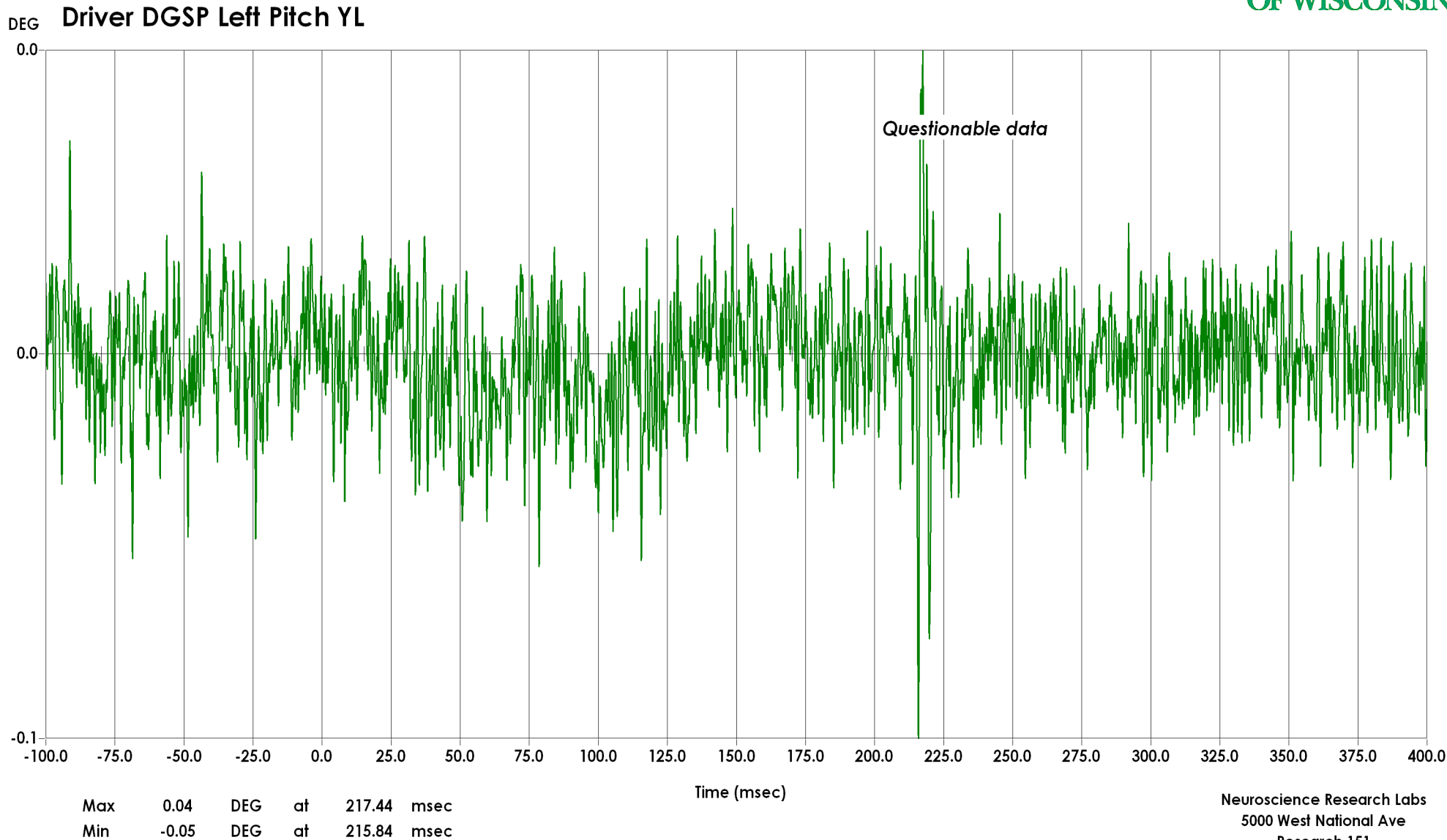
Sensor Location ABDL
Sensor Info Space Age
Serial Number 025



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location ABDL
Sensor Info Space Age
Serial Number 0101



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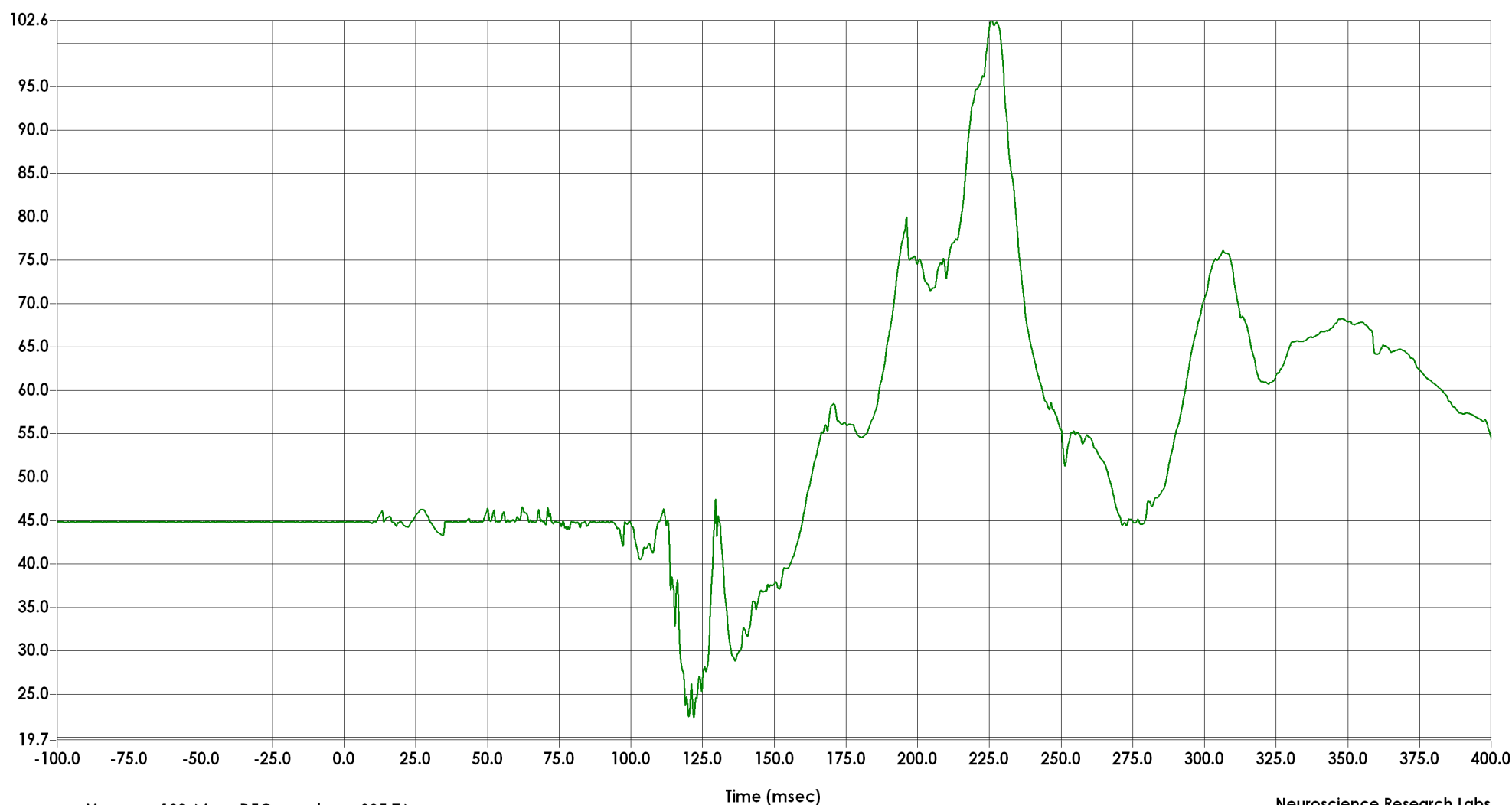
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location ABDL
Sensor Info Space Age PD210-4B
Serial Number 0279



DEG Driver DGSP Left Yaw ZL



Max 102.64 DEG at 225.76 msec
Min 22.33 DEG at 121.92 msec

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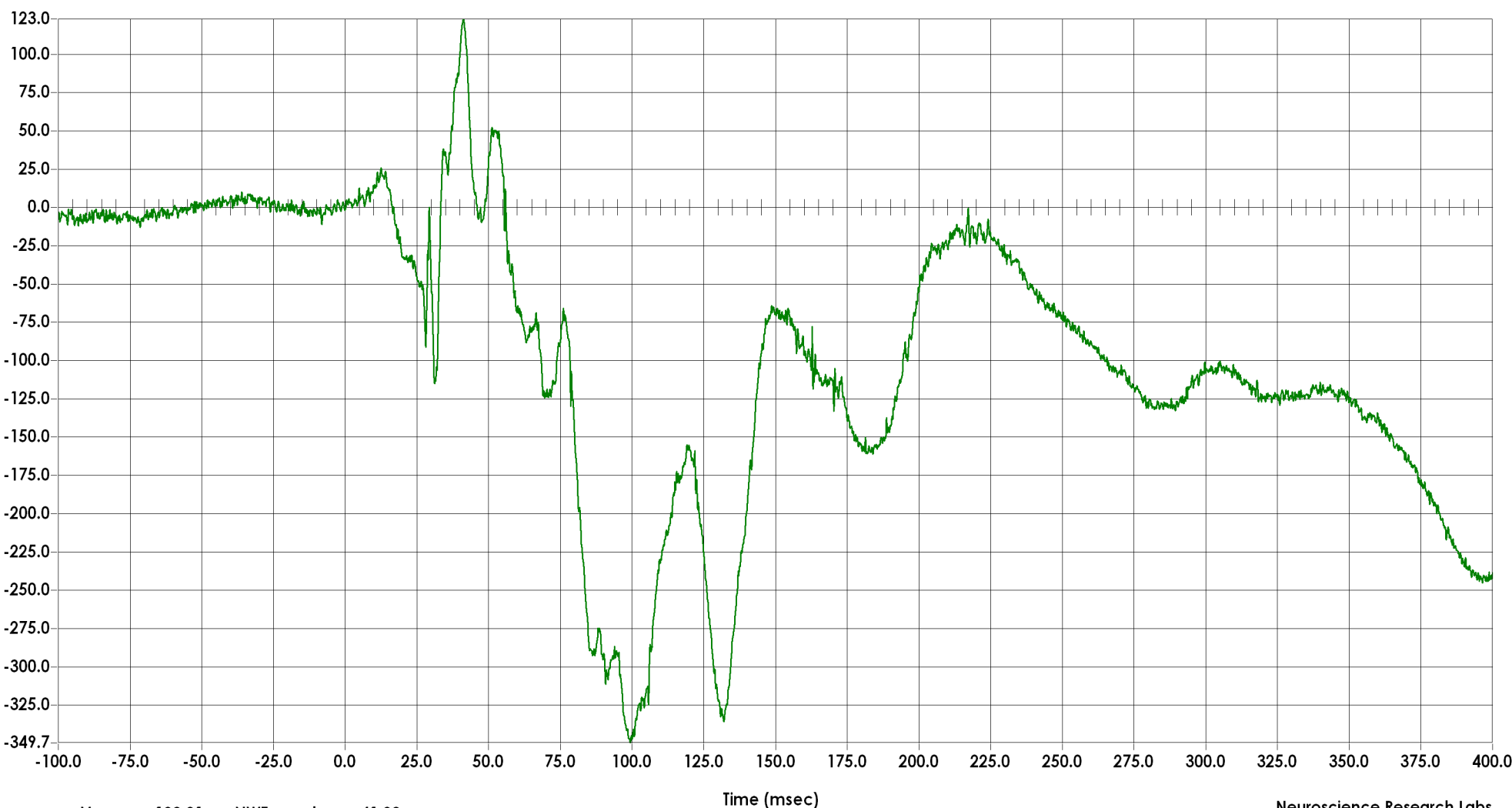
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNL
Sensor Info Denton 1911A
Serial Number 1911A_122_FX



NWT Driver T12 Force XL



Max 123.01 NWT at 41.28 msec
Min -349.66 NWT at 99.36 msec

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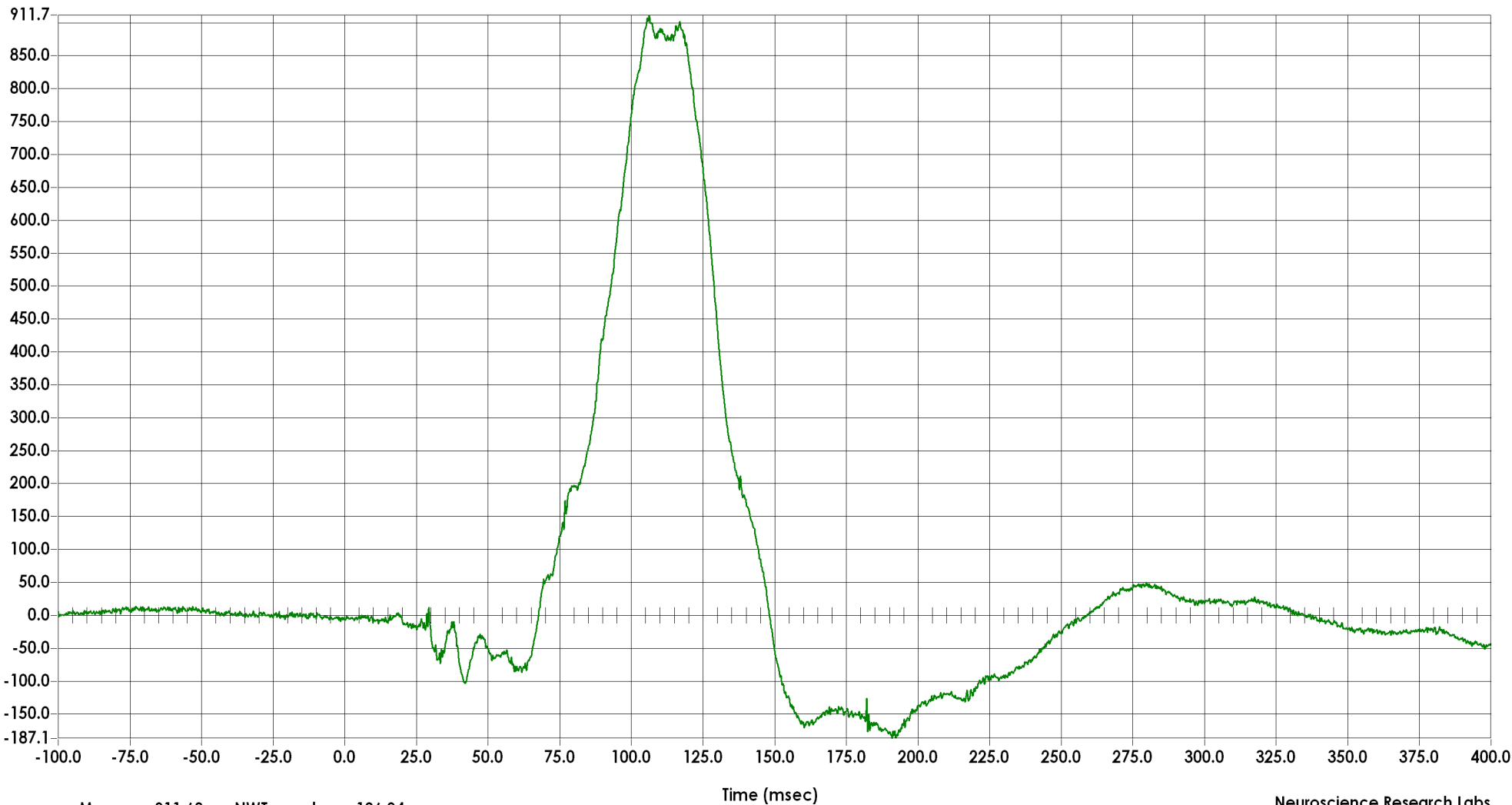
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNL
Sensor Info Denton 1911A
Serial Number 1911A_122_FY



NWT Driver T12 Force YL



Max 911.68 NWT at 106.24 msec
Min -187.08 NWT at 190.96 msec

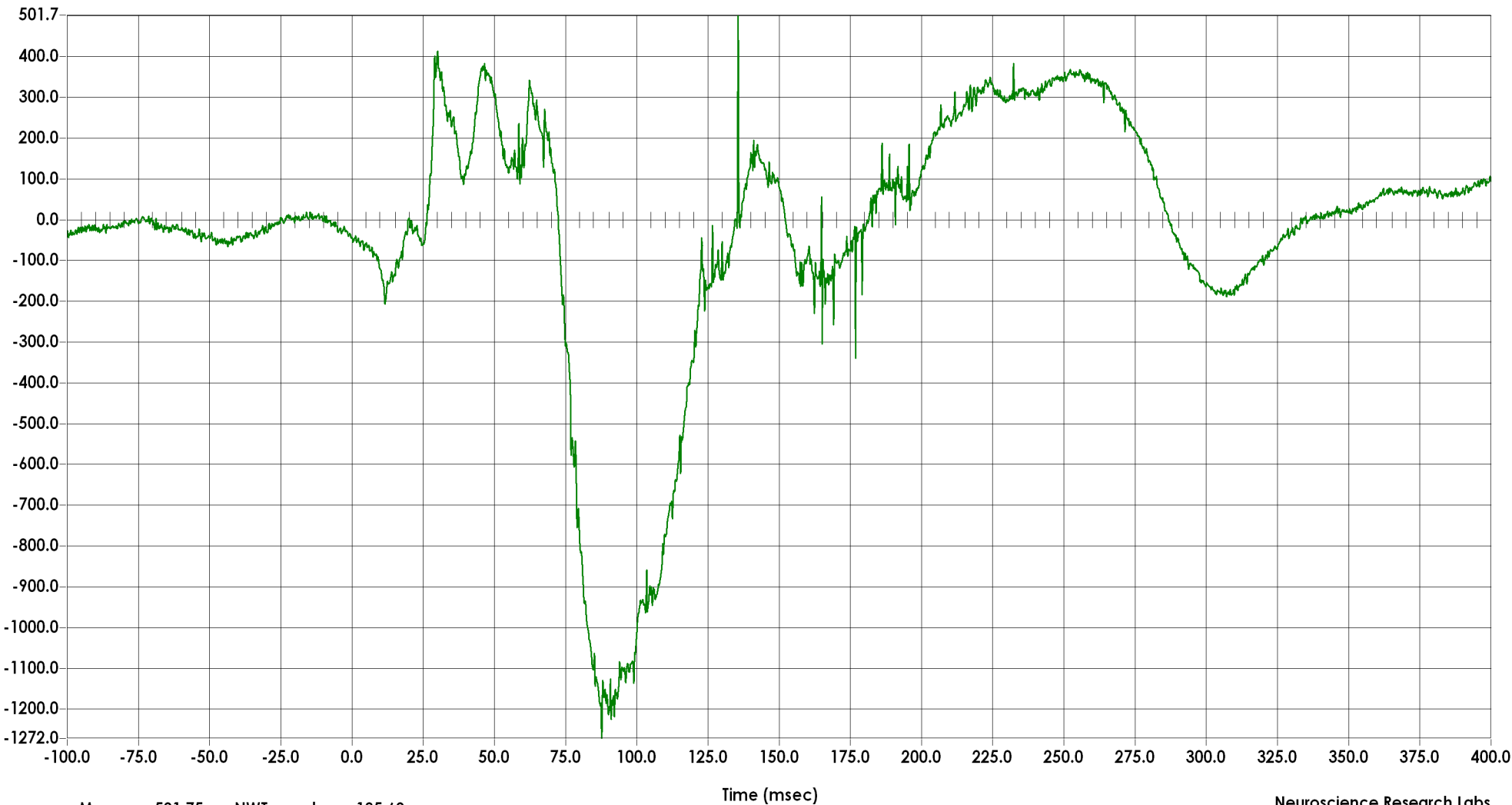
Neuroscience Research Labs
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Milwaukee, WI 53295

Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250
Sensor Location SPNL
Sensor Info Denton 1911A
Serial Number 1911A_122_FZ



NWT Driver T12 Force ZL



Max 501.75 NWT at 135.60 msec
Min -1272.02 NWT at 87.76 msec

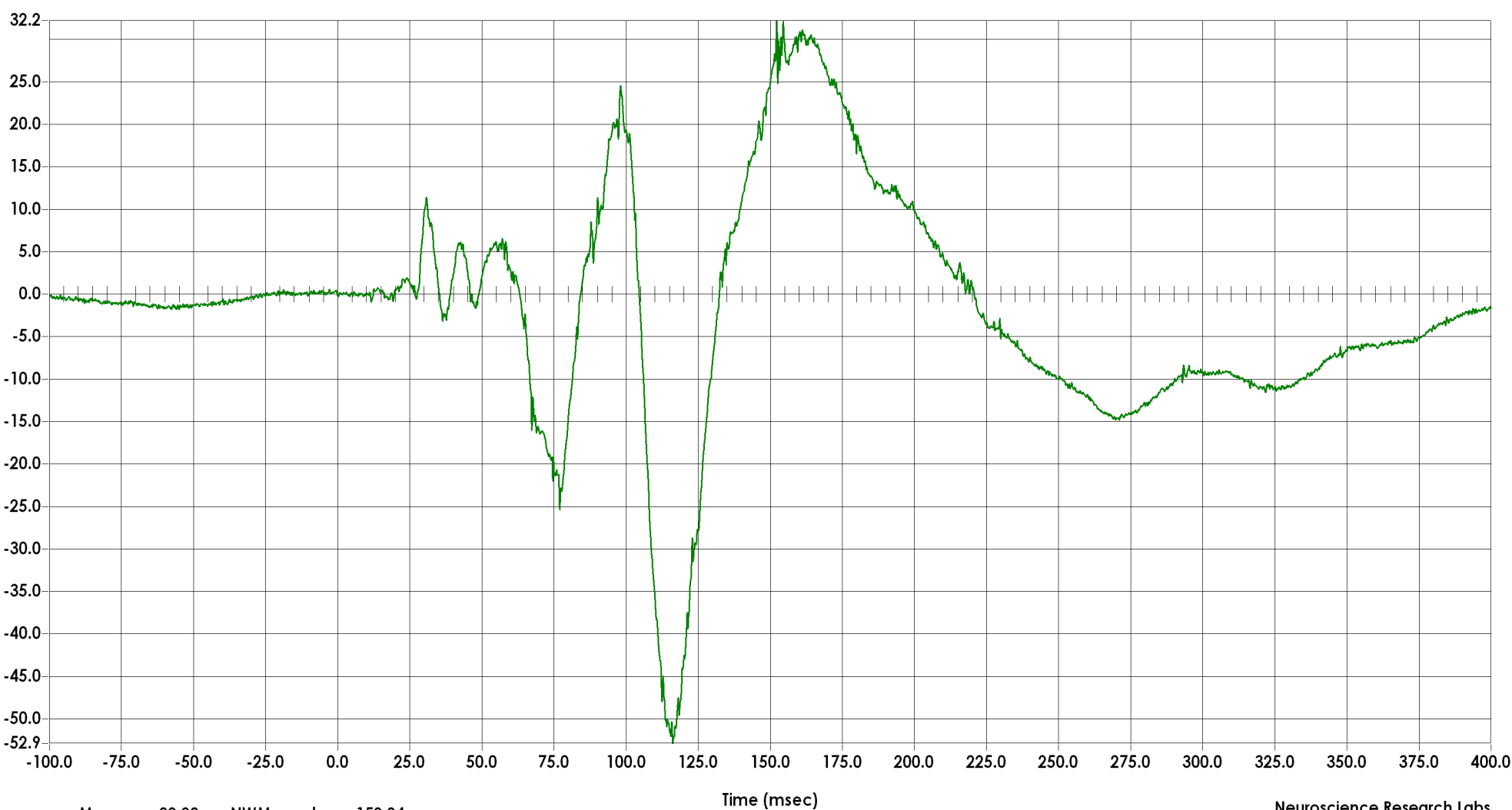
Neuroscience Research Labs
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Milwaukee, WI 53295

Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250
Sensor Location SPNL
Sensor Info Denton 1911A
Serial Number 1911A_122_MX



NWM Driver T12 Moment XL



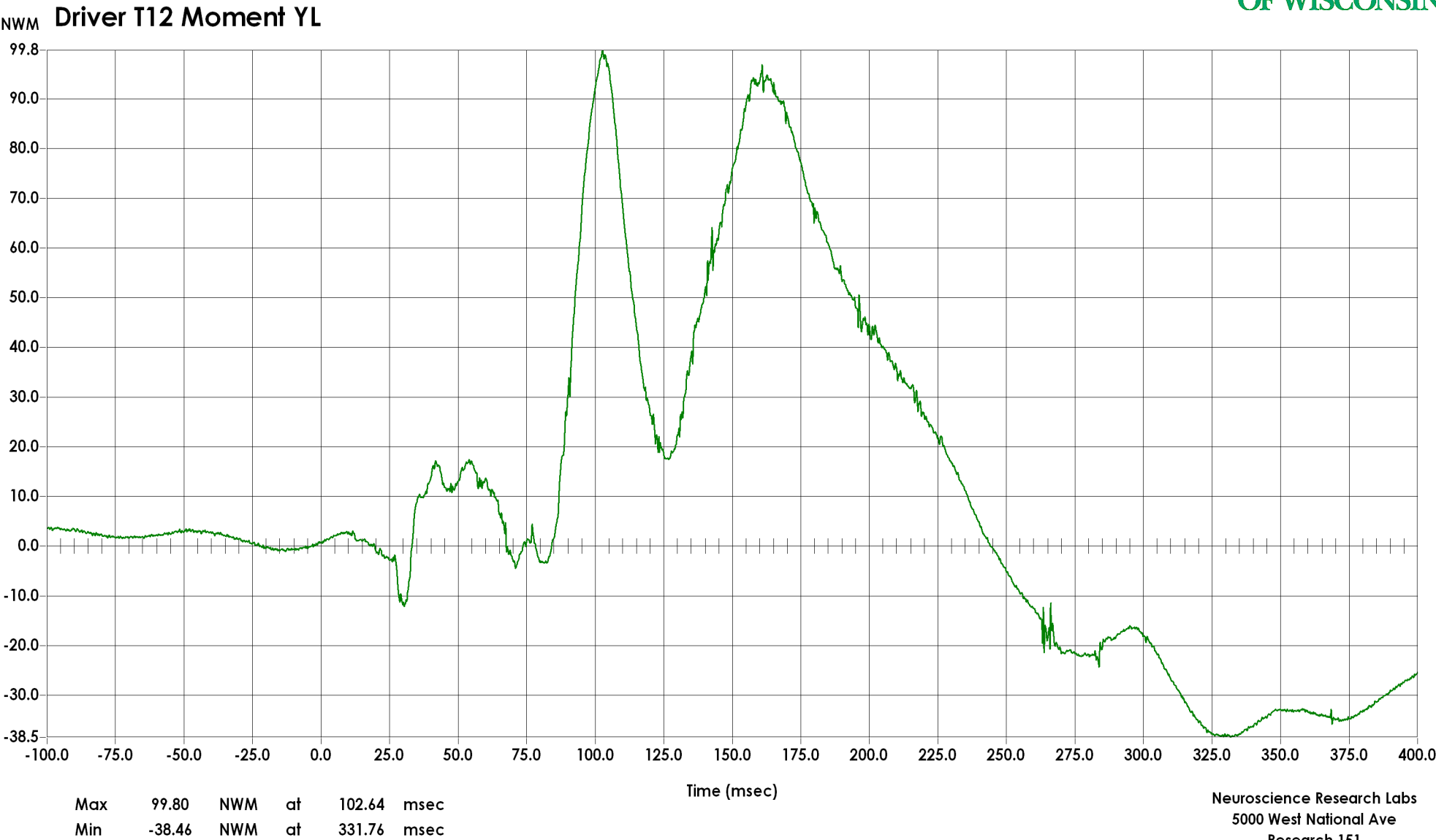
Max 32.23 NWM at 152.24 msec
Min -52.90 NWM at 116.16 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SPNL
Sensor Info Denton 1911A
Serial Number 1911A_122_MY



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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVAR
Sensor Info Denton 3855 SN75
Serial Number 3855_75_FX



NWT Driver Right Acetabular Force XL



Max 1102.03 NWT at 112.48 msec
Min -219.21 NWT at 81.44 msec

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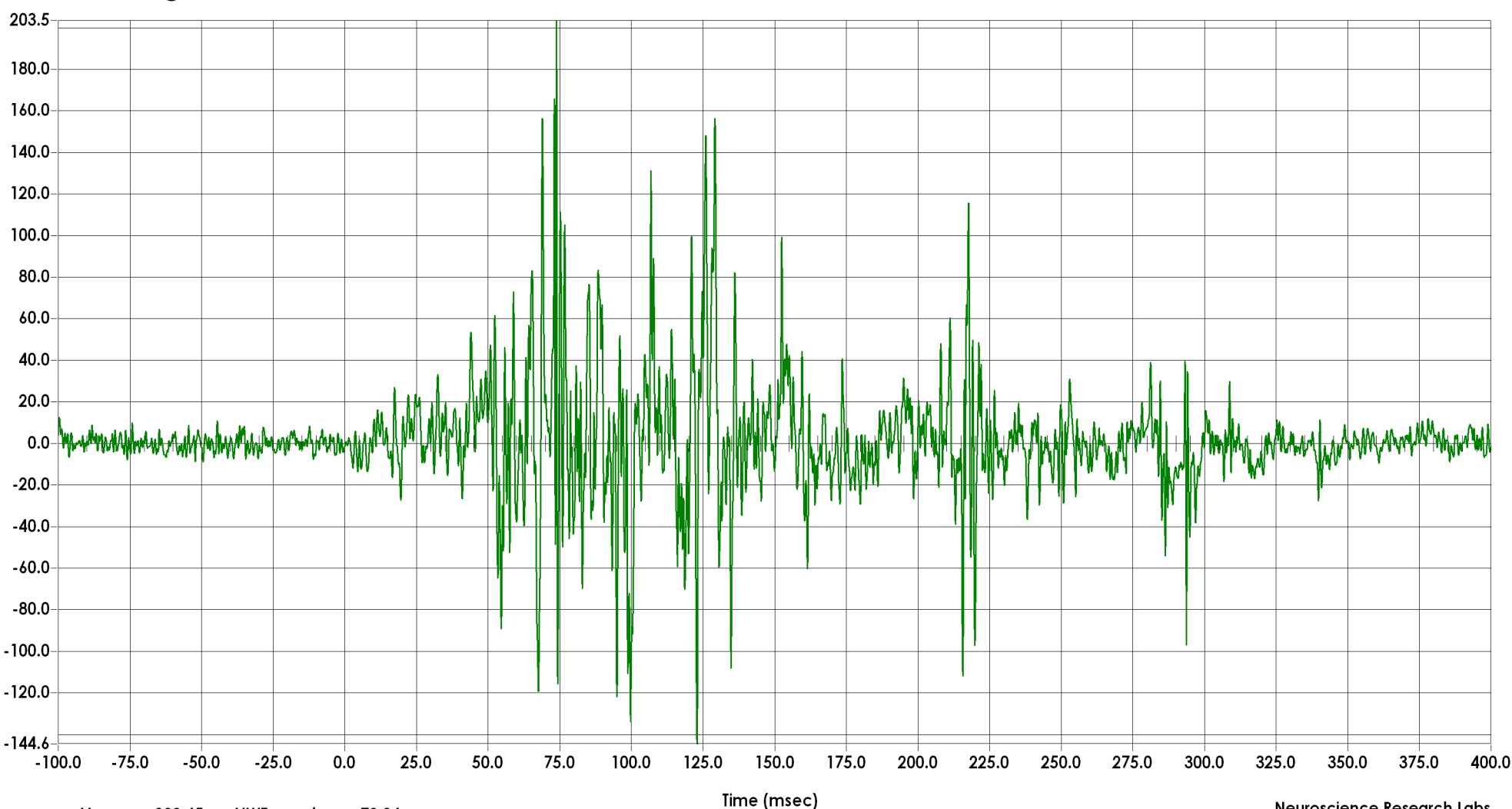
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVAR
Sensor Info Denton 3855 SN75
Serial Number 3855_75_FY



NWT Driver Right Acetabular Force YL



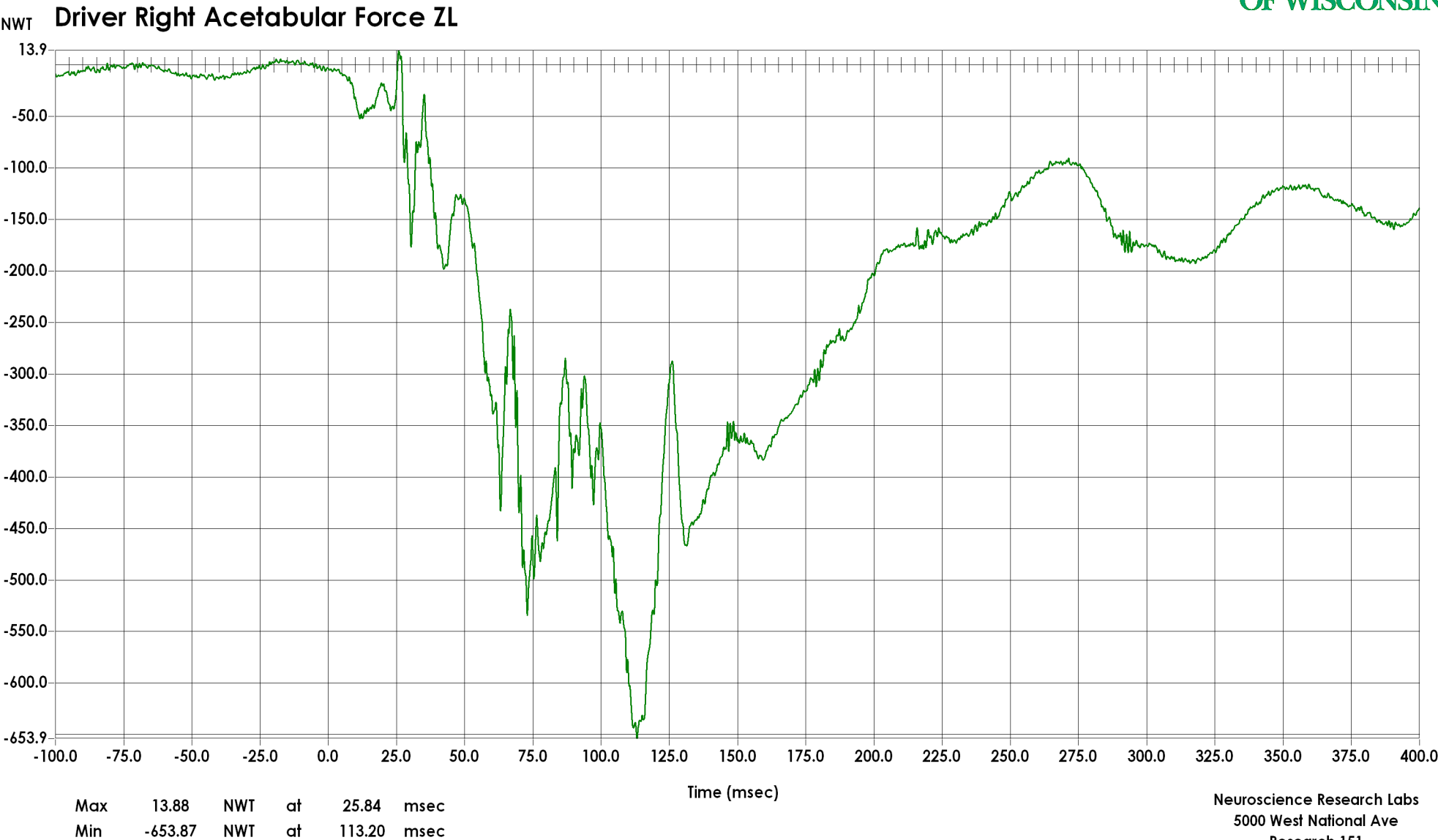
Max 203.45 NWT at 73.84 msec
Min -144.60 NWT at 122.88 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVAR
Sensor Info Denton 3855 SN75
Serial Number 3855_75_FZ



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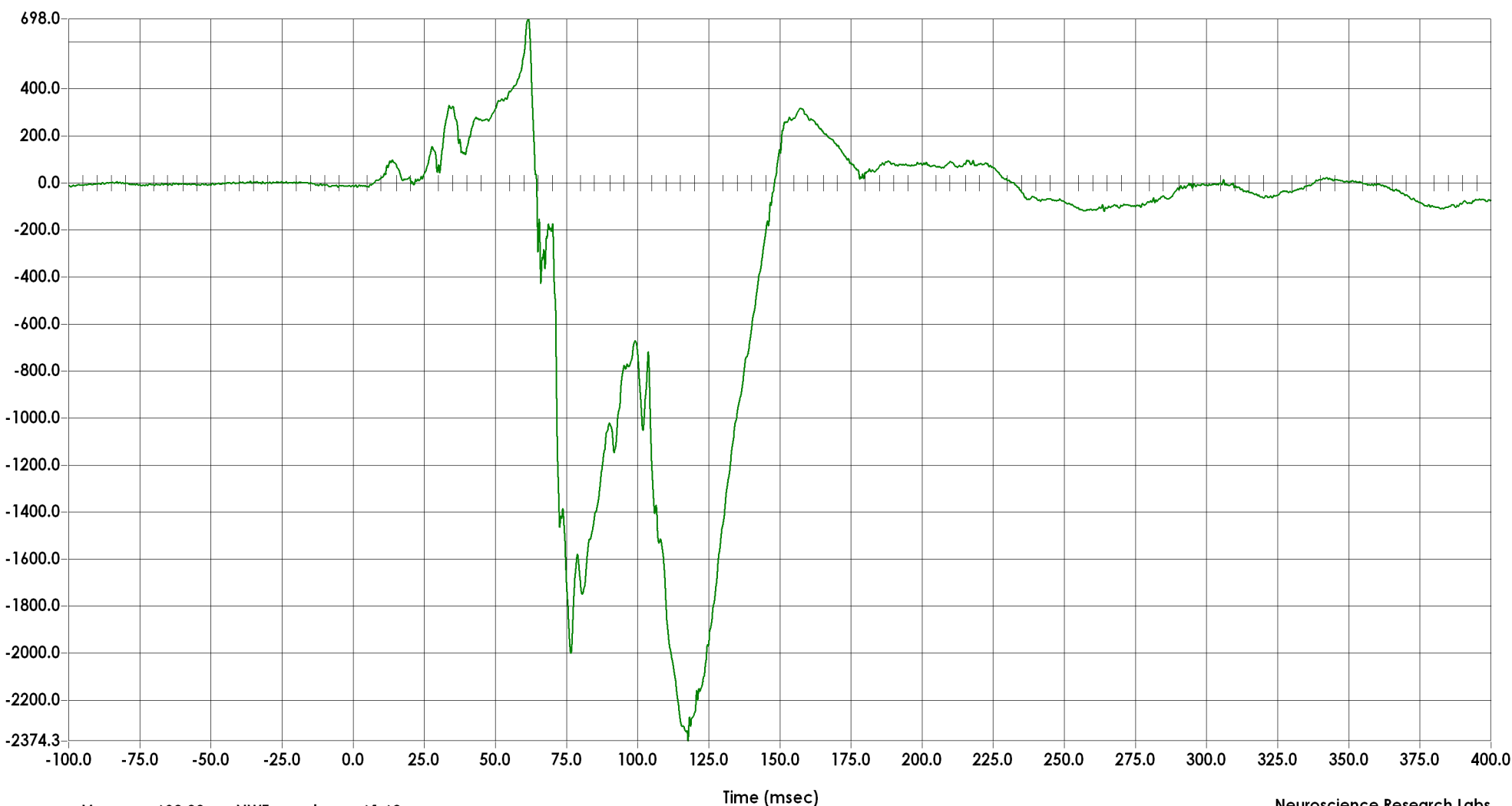
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVAL
Sensor Info Denton 3455J SN75
Serial Number 3455J_75_FX



NWT Driver Left Acetabulum Force XL



Max 698.00 NWT at 61.68 msec
Min -2374.25 NWT at 117.76 msec

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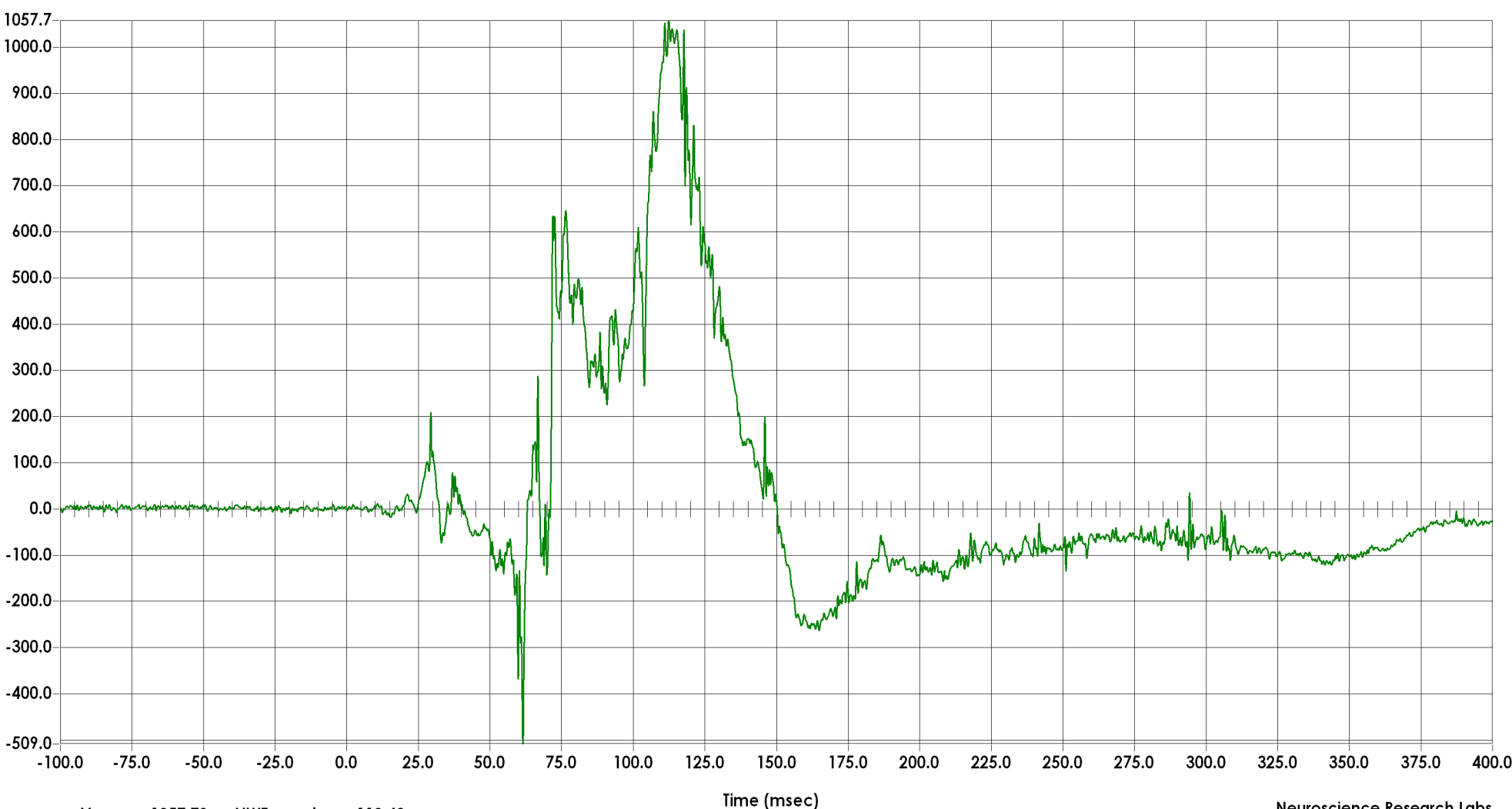
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVAL
Sensor Info Denton 3455J SN75
Serial Number 3455J_75_FY



NWT Driver Left Acetabulum Force YL



Max 1057.72 NWT at 112.48 msec
Min -508.98 NWT at 61.44 msec

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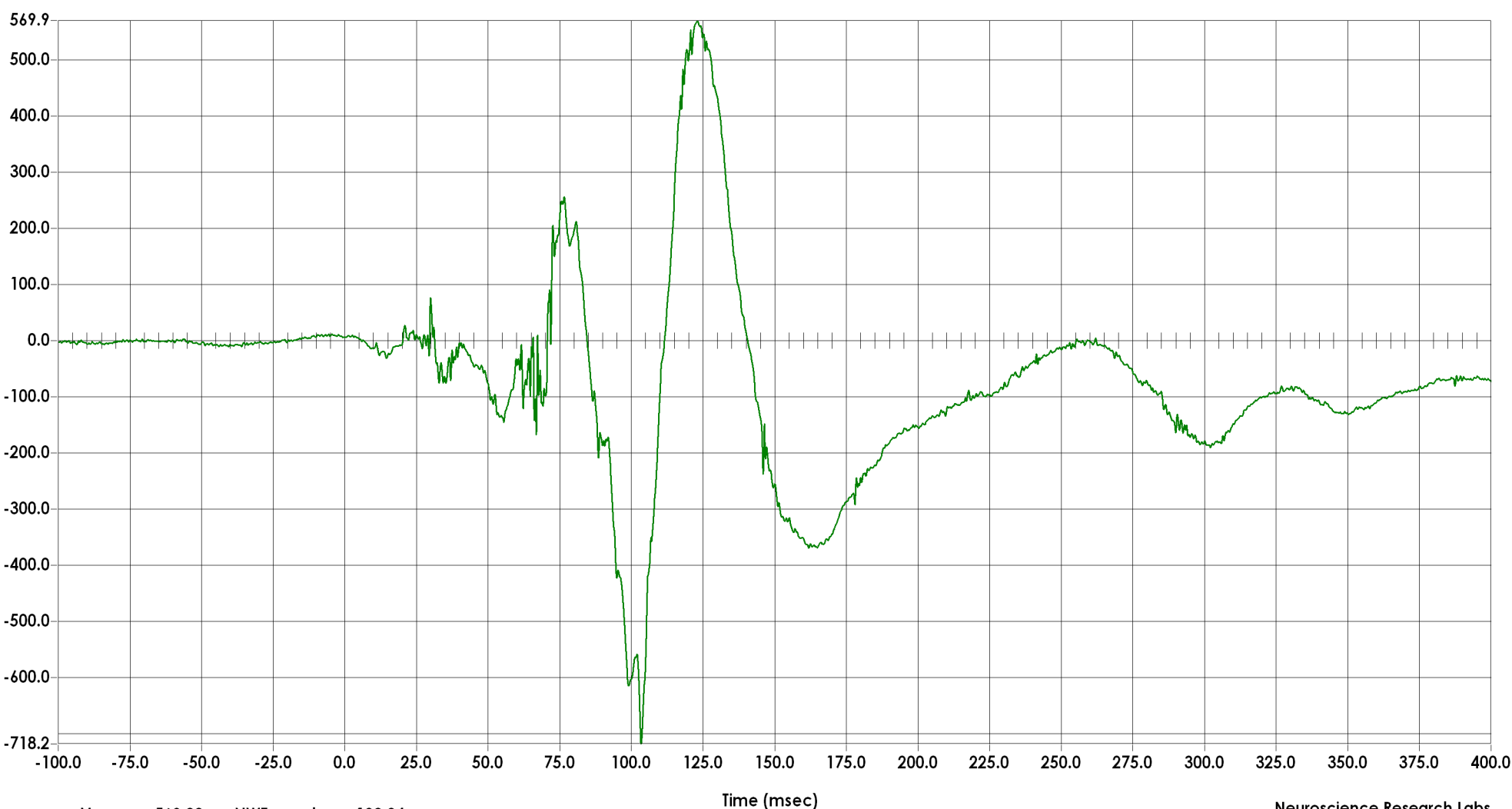
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location PVAL
Sensor Info Denton 3455J SN75
Serial Number 3455J_75_FZ



NWT Driver Left Acetabulum Force ZL



Max 569.88 NWT at 123.04 msec
Min -718.23 NWT at 103.44 msec

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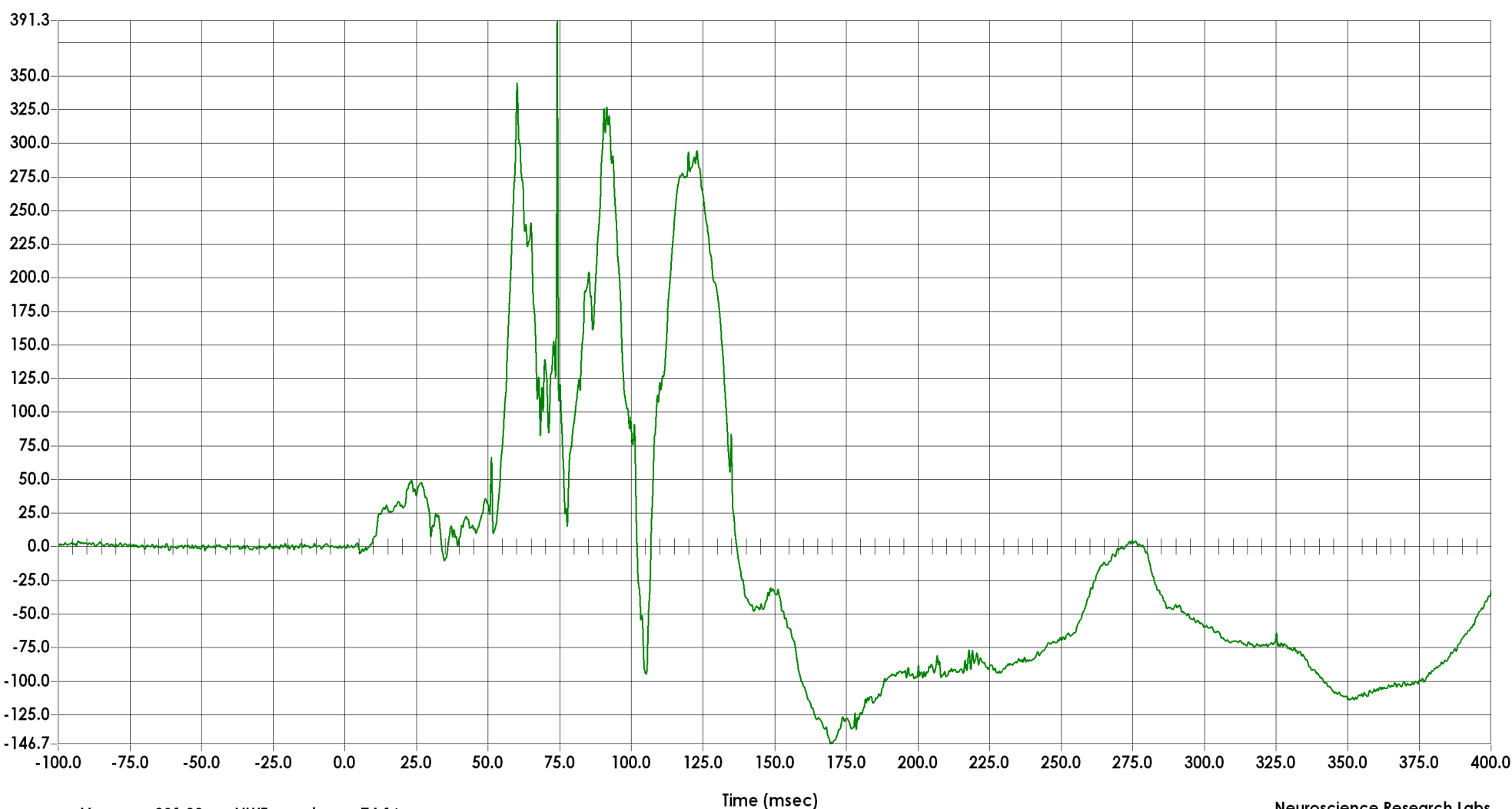
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRL
Sensor Info DENTON 1914A
Serial Number 1914A_376_FX



NWT Driver Left Femur Force XL



Max 391.30 NWT at 74.16 msec
Min -146.68 NWT at 169.52 msec

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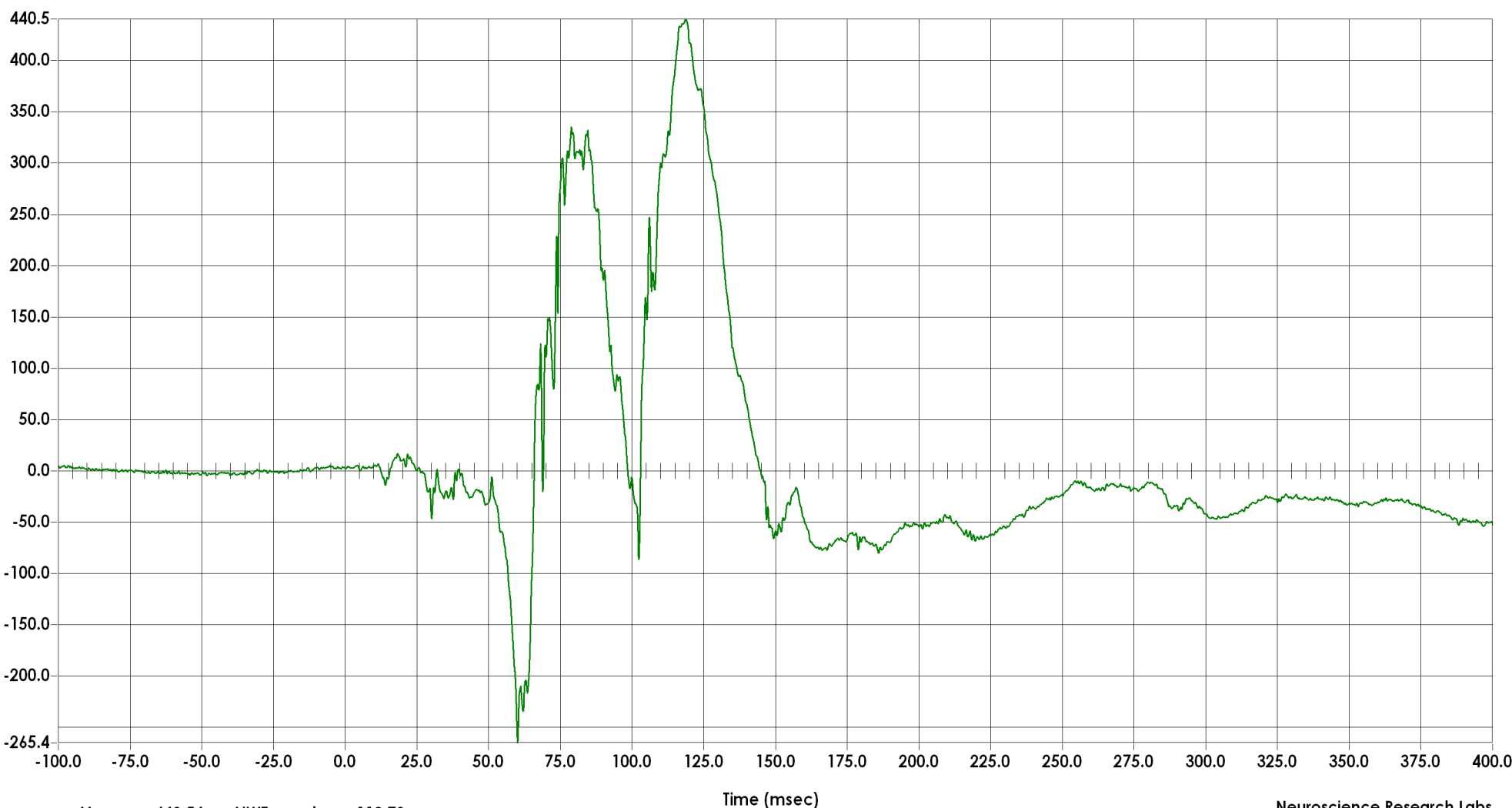
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRL
Sensor Info DENTON 1914A
Serial Number 1914A_376_FY



NWT Driver Left Femur Force YL



Max 440.54 NWT at 118.72 msec
Min -265.37 NWT at 60.08 msec

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Milwaukee, WI 53295

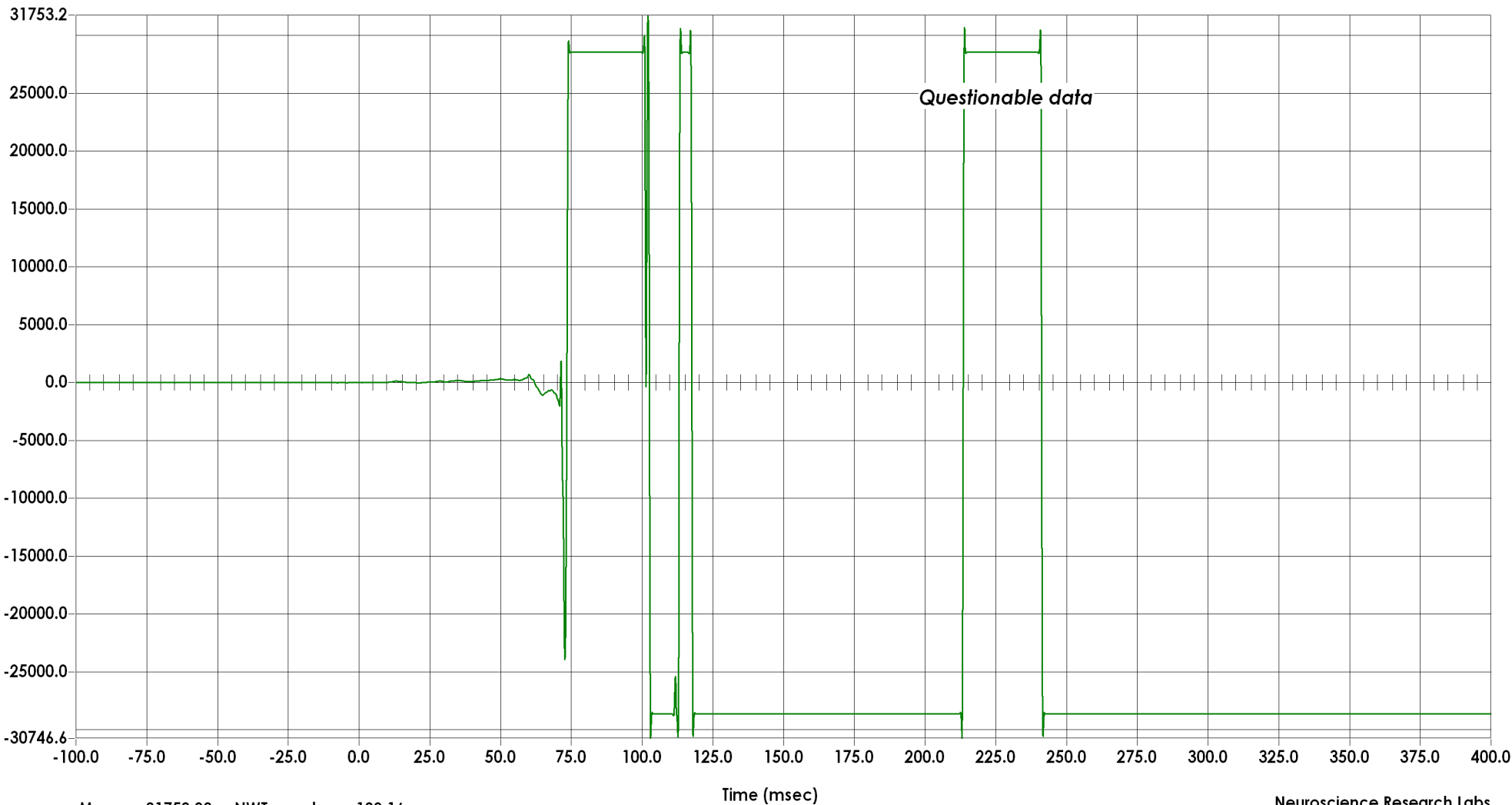
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRL
Sensor Info DENTON 1914A
Serial Number 1914A_376_FZ



NWT Driver Left Femur Force ZL



Max 31753.23 NWT at 102.16 msec
Min -30746.59 NWT at 213.04 msec

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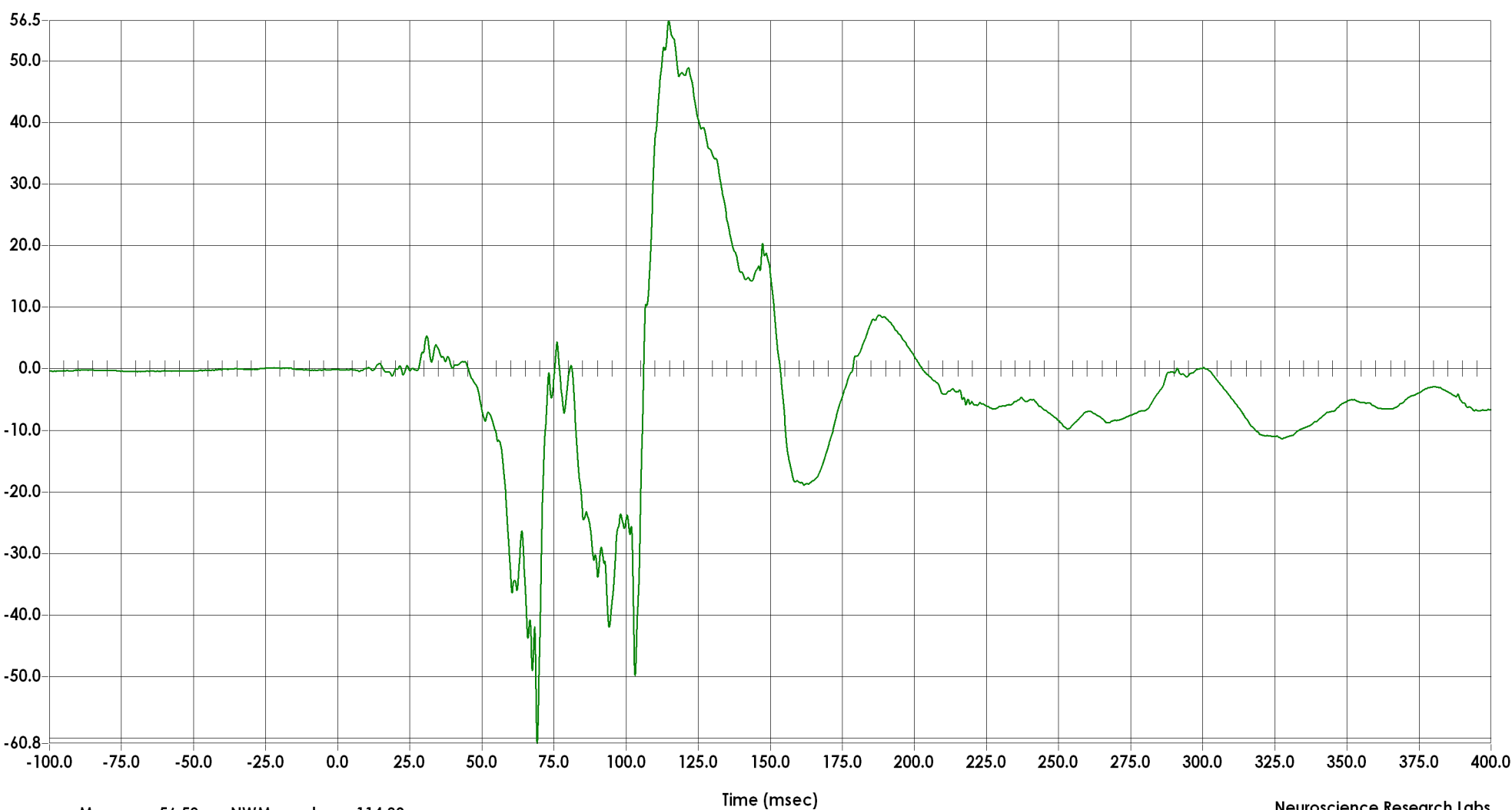
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRL
Sensor Info DENTON 1914A
Serial Number 1914A_376_MX



NWM Driver Left Femur Moment XL



Max 56.52 NWM at 114.80 msec
Min -60.84 NWM at 69.12 msec

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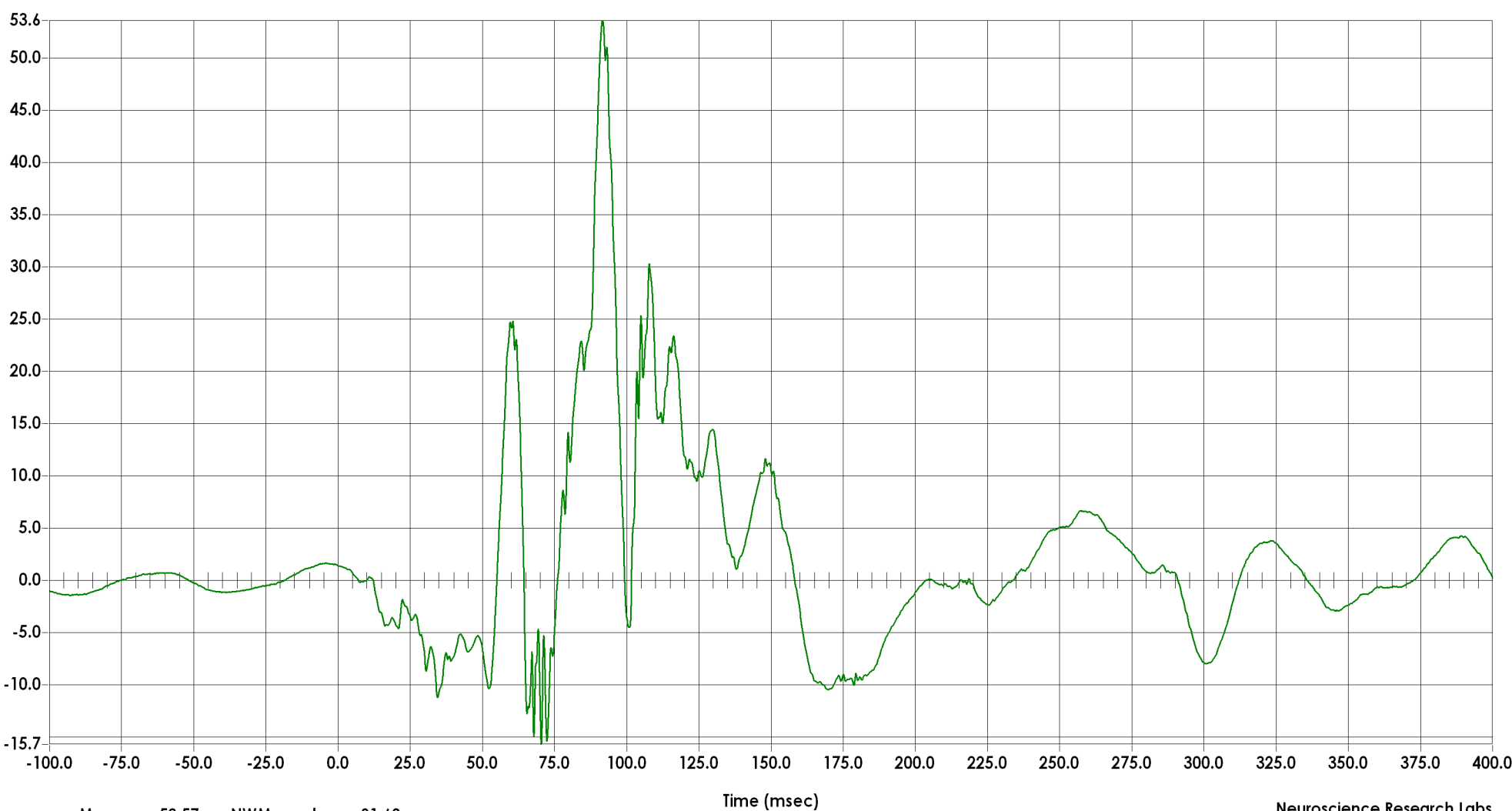
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRL
Sensor Info DENTON 1914A
Serial Number 1914A_376_MY



NWM Driver Left Femur Moment YL



Max 53.57 NWM at 91.60 msec
Min -15.70 NWM at 70.40 msec

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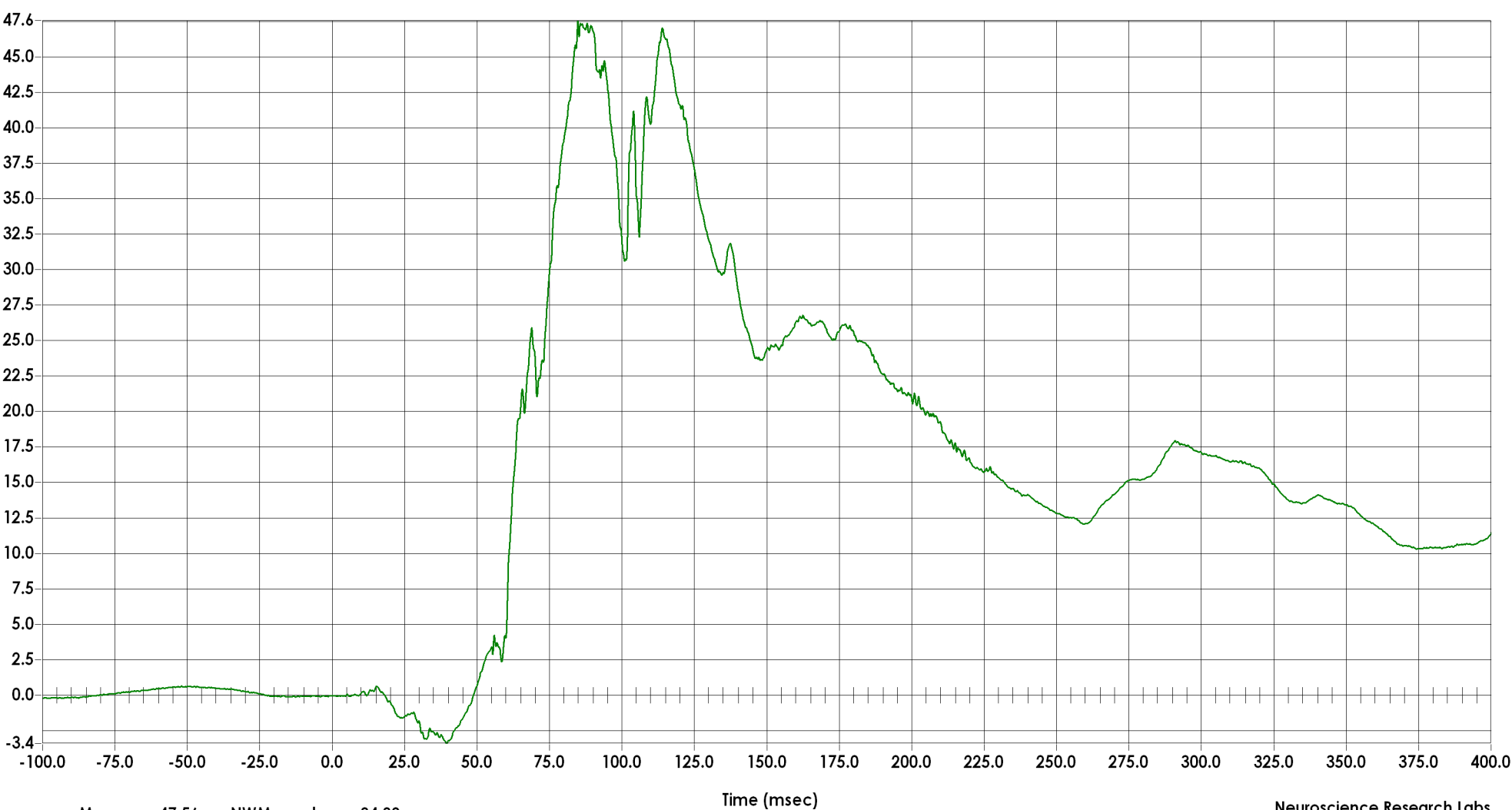
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRL
Sensor Info DENTON 1914A
Serial Number 1914A_376_MZ



NWM Driver Left Femur Moment ZL

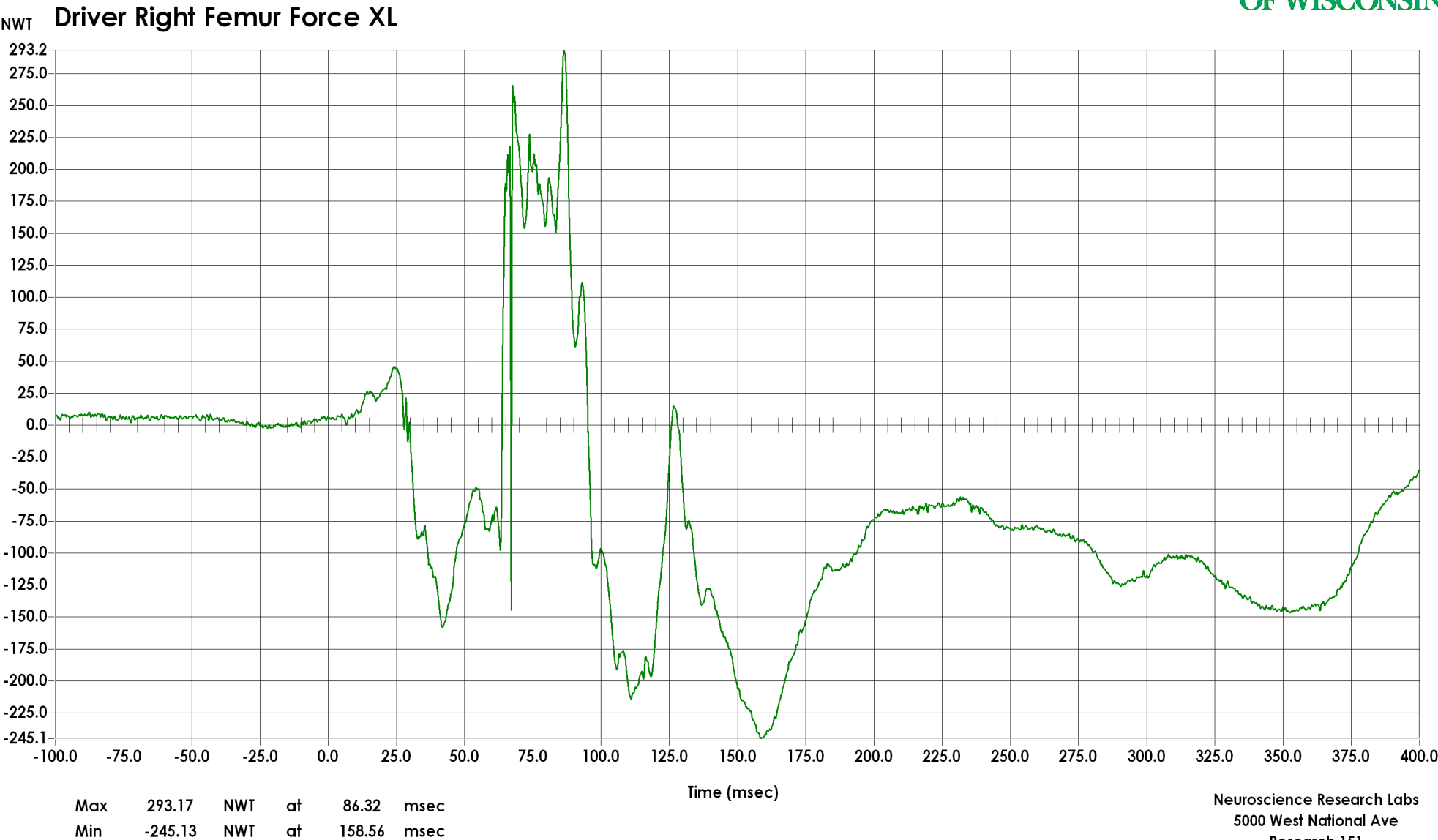


Max 47.56 NWM at 84.80 msec
Min -3.41 NWM at 39.52 msec

Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRR
Sensor Info FTSS IF-625
Serial Number IF-625_139_FX

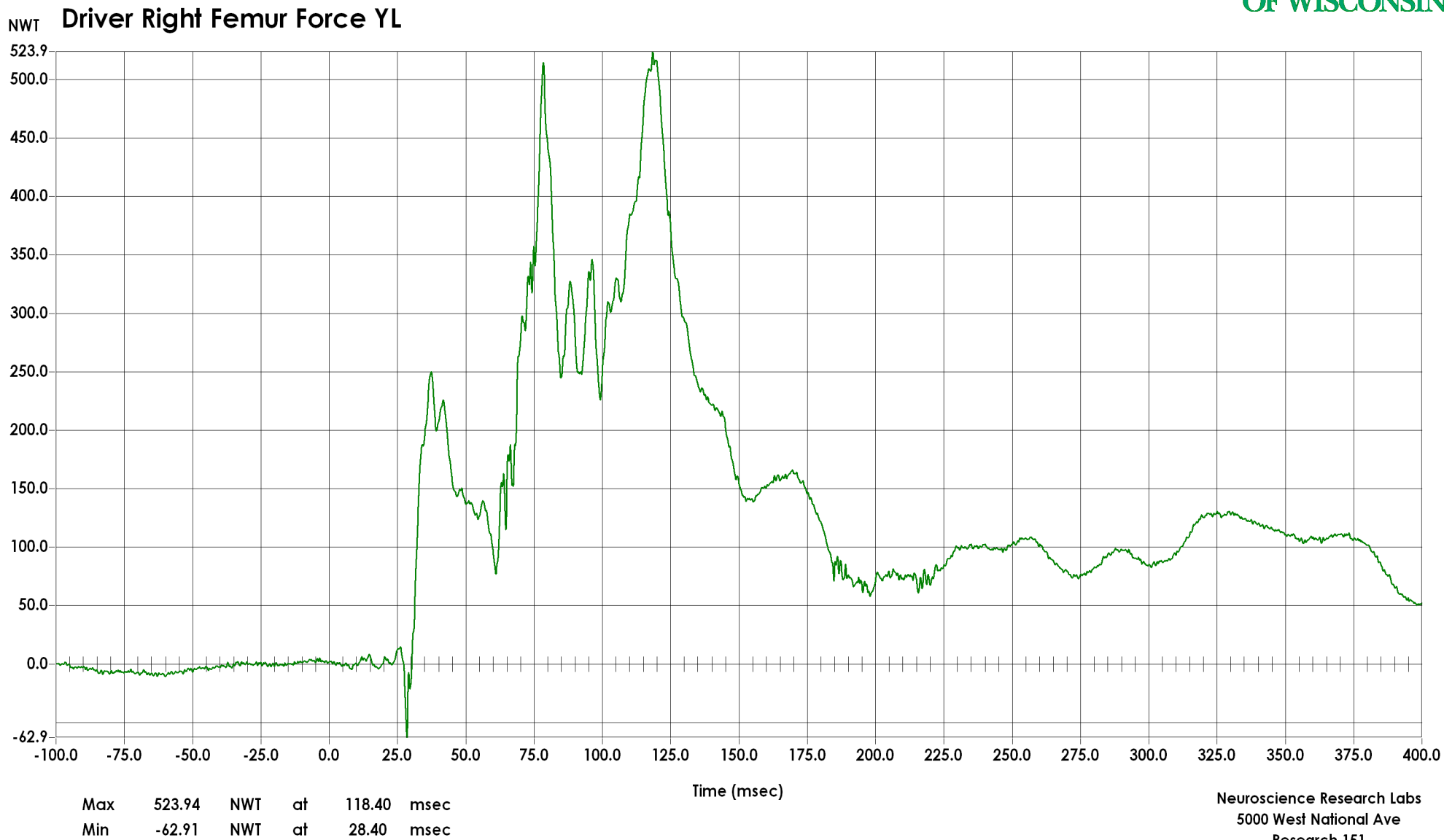


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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

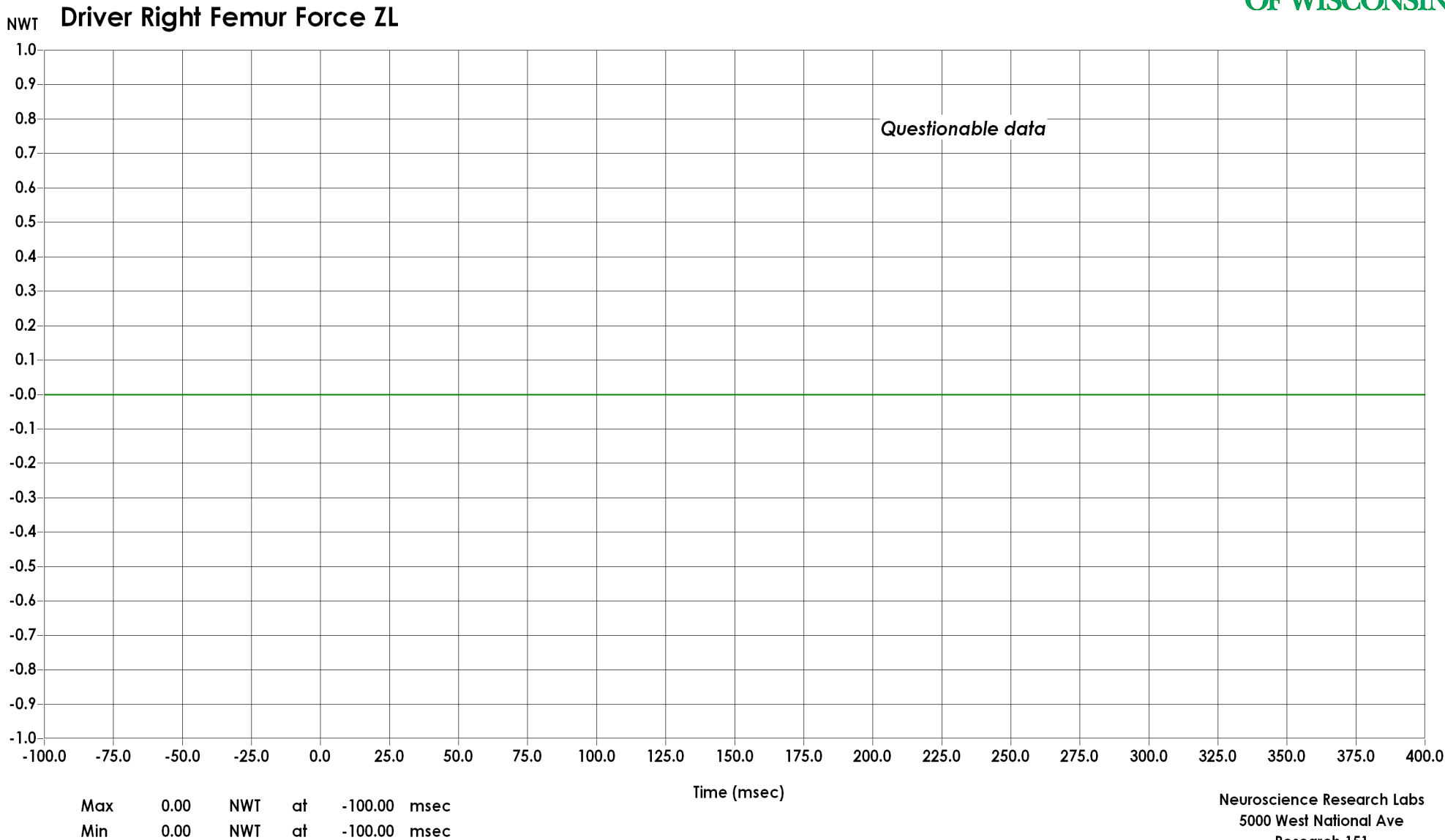
Sensor Location FMRR
Sensor Info FTSS IF-625
Serial Number IF-625_139_FY



Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRR
Sensor Info FTSS IF-625
Serial Number IF-625_139_FZ



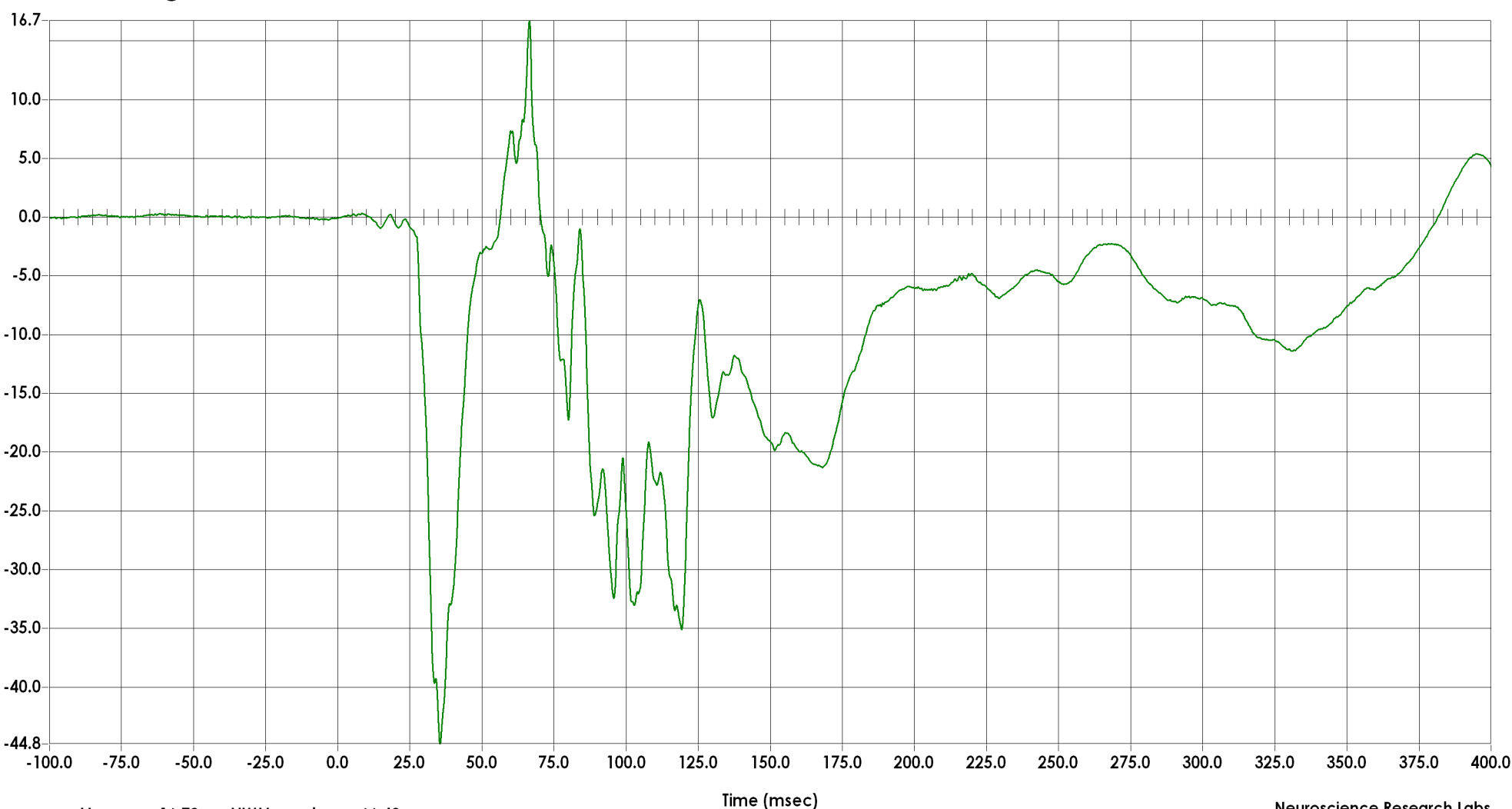
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRR
Sensor Info FTSS IF-625
Serial Number IF-625_139_MX



NWM Driver Right Femur Moment XL



Max 16.73 NWM at 66.48 msec
Min -44.83 NWM at 35.52 msec

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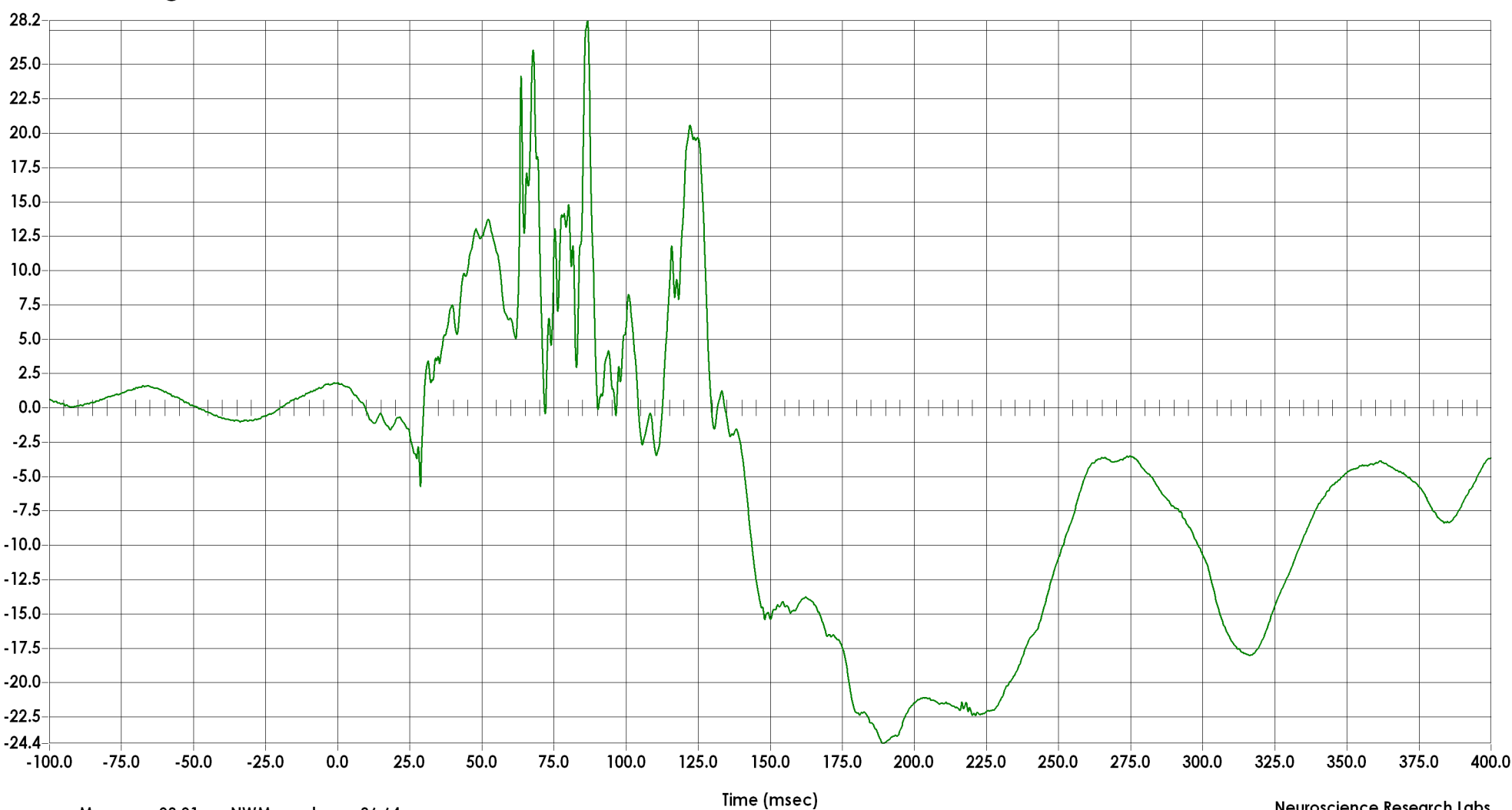
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRR
Sensor Info FTSS IF-625
Serial Number IF-625_139_MY



NWM Driver Right Femur Moment YL



Max 28.21 NWM at 86.64 msec
Min -24.43 NWM at 189.04 msec

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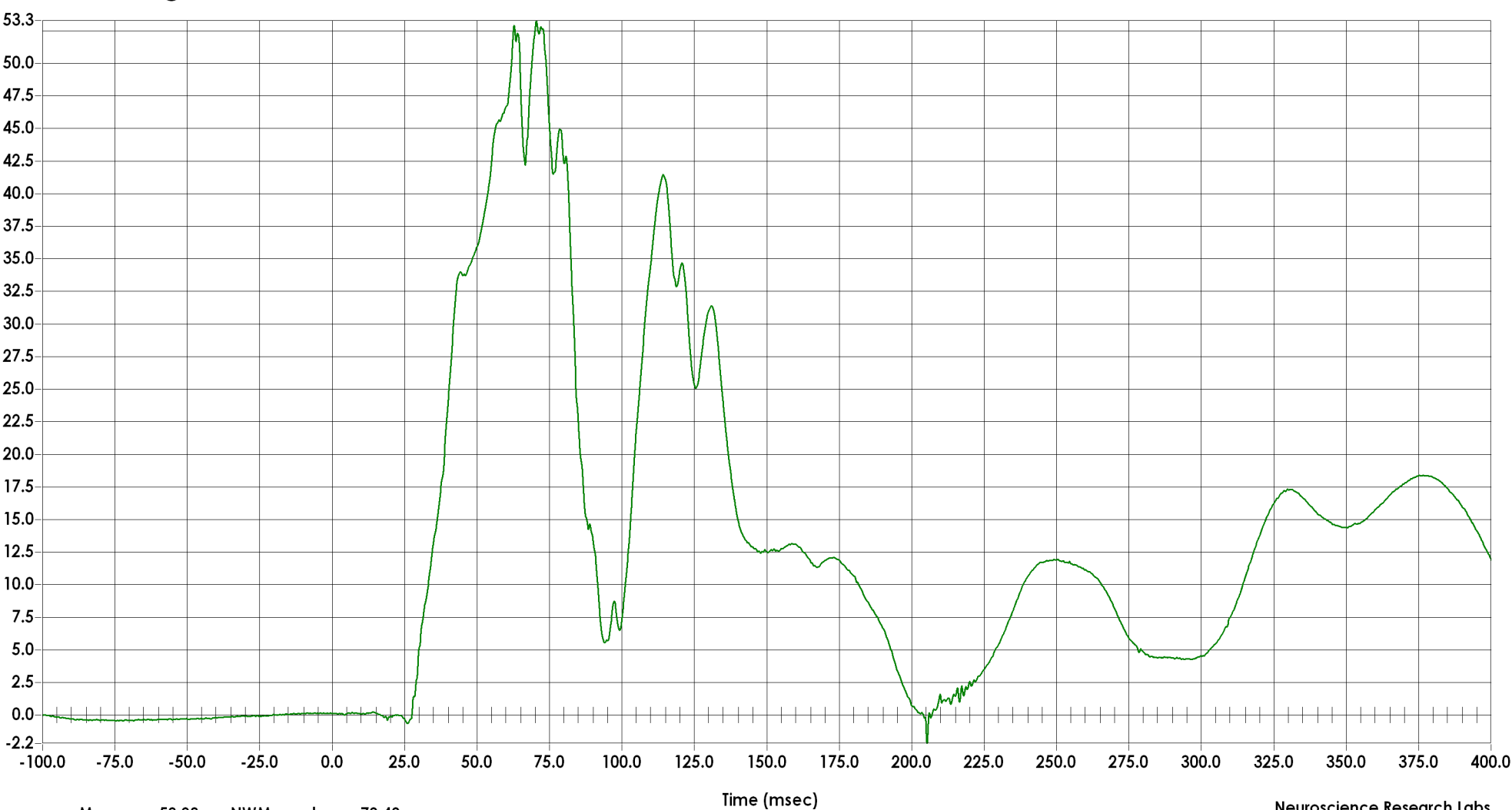
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location FMRR
Sensor Info FTSS IF-625
Serial Number IF-625_139_MZ



NWM Driver Right Femur Moment ZL



Max 53.28 NWM at 70.40 msec
Min -2.18 NWM at 205.36 msec

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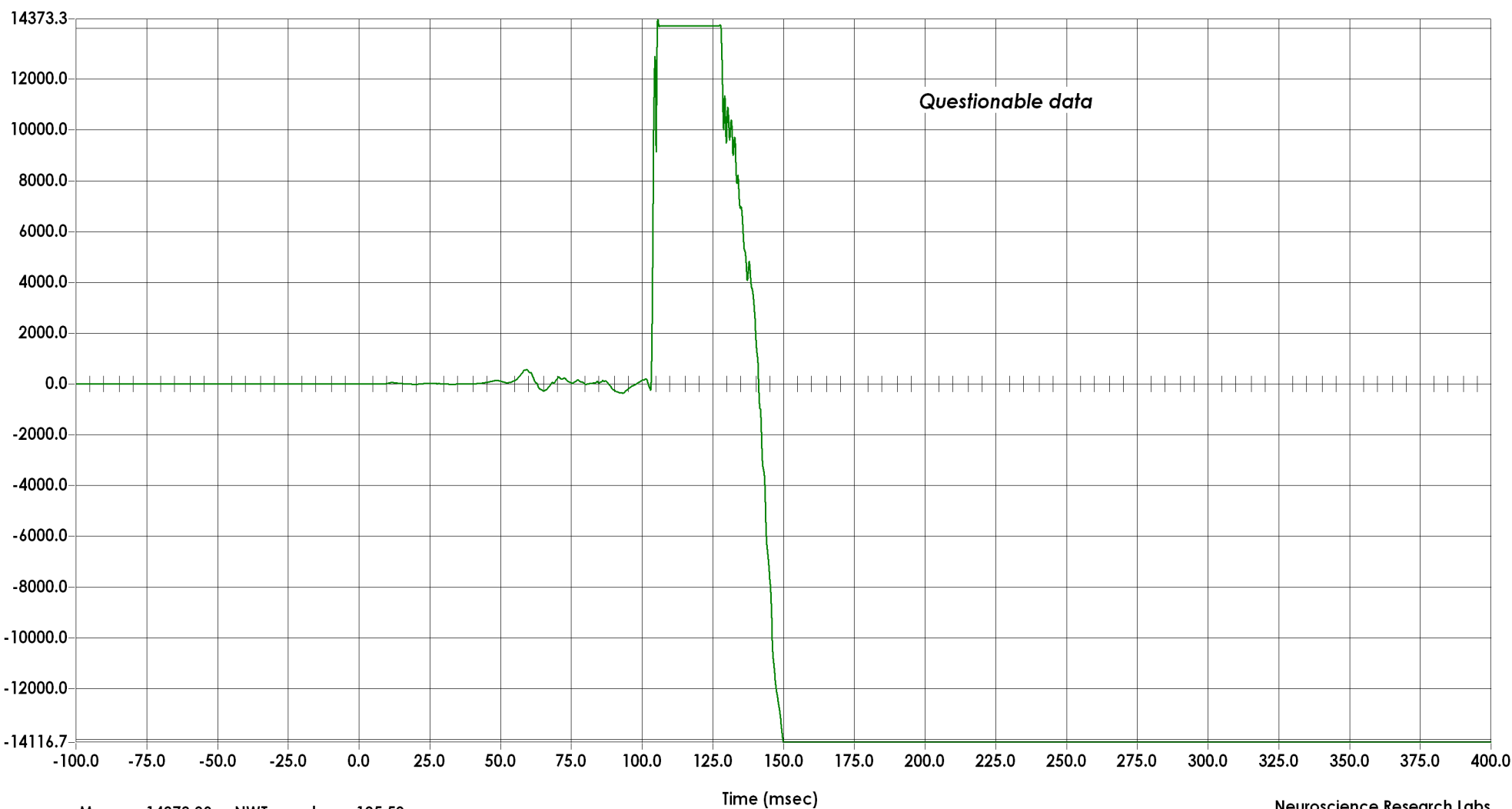
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLU
Sensor Info Denton 4509J
Serial Number 4509J_104_FX



NWT Driver Left Upper Tibia Force XL



Max 14373.29 NWT at 105.52 msec
Min -14116.65 NWT at 150.08 msec

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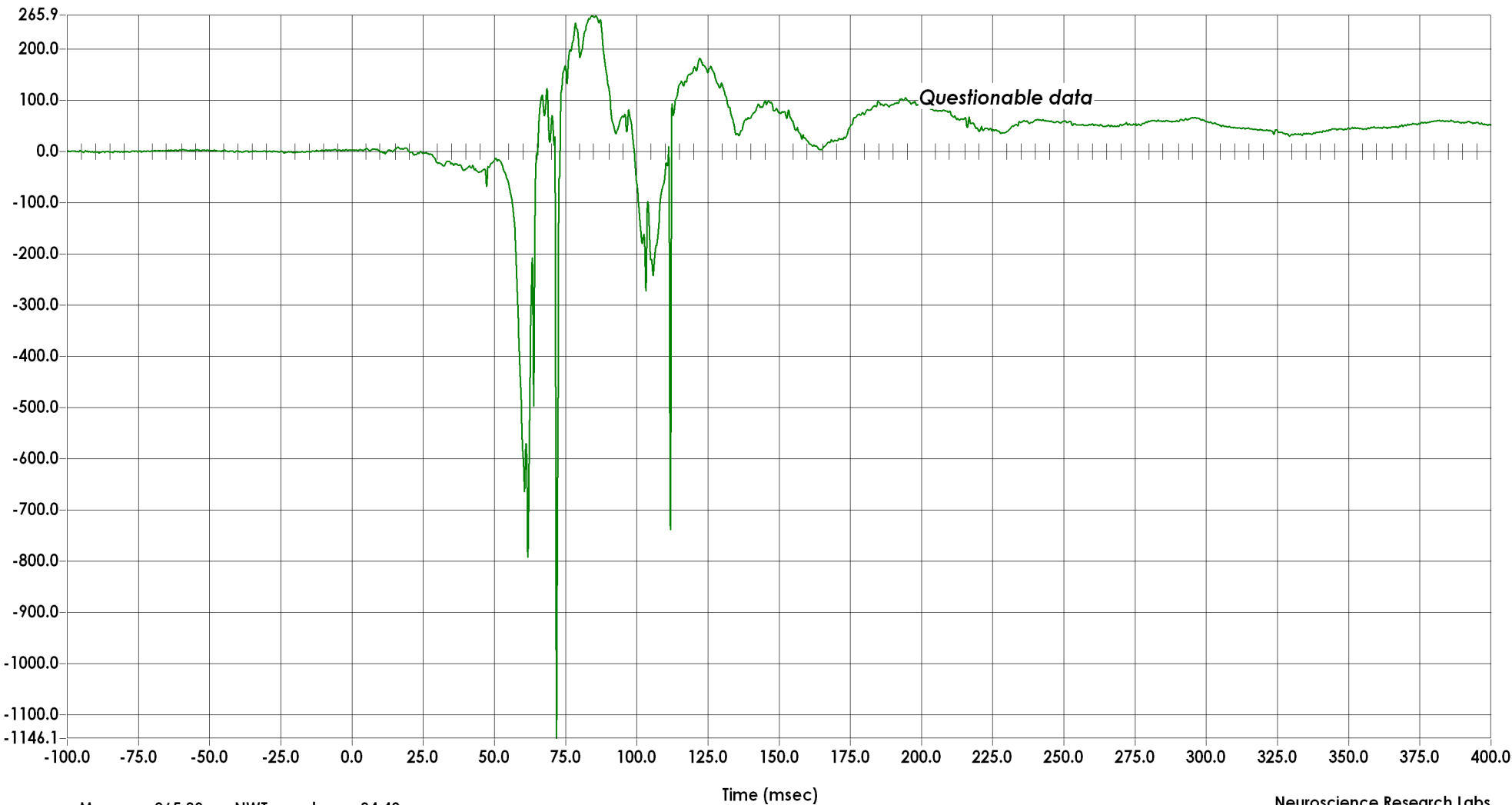
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLU
Sensor Info Denton 4509J
Serial Number 4509J_104_FY



NWT Driver Left Upper Tibia Force YL



Max 265.89 NWT at 84.40 msec
Min -1146.15 NWT at 71.84 msec

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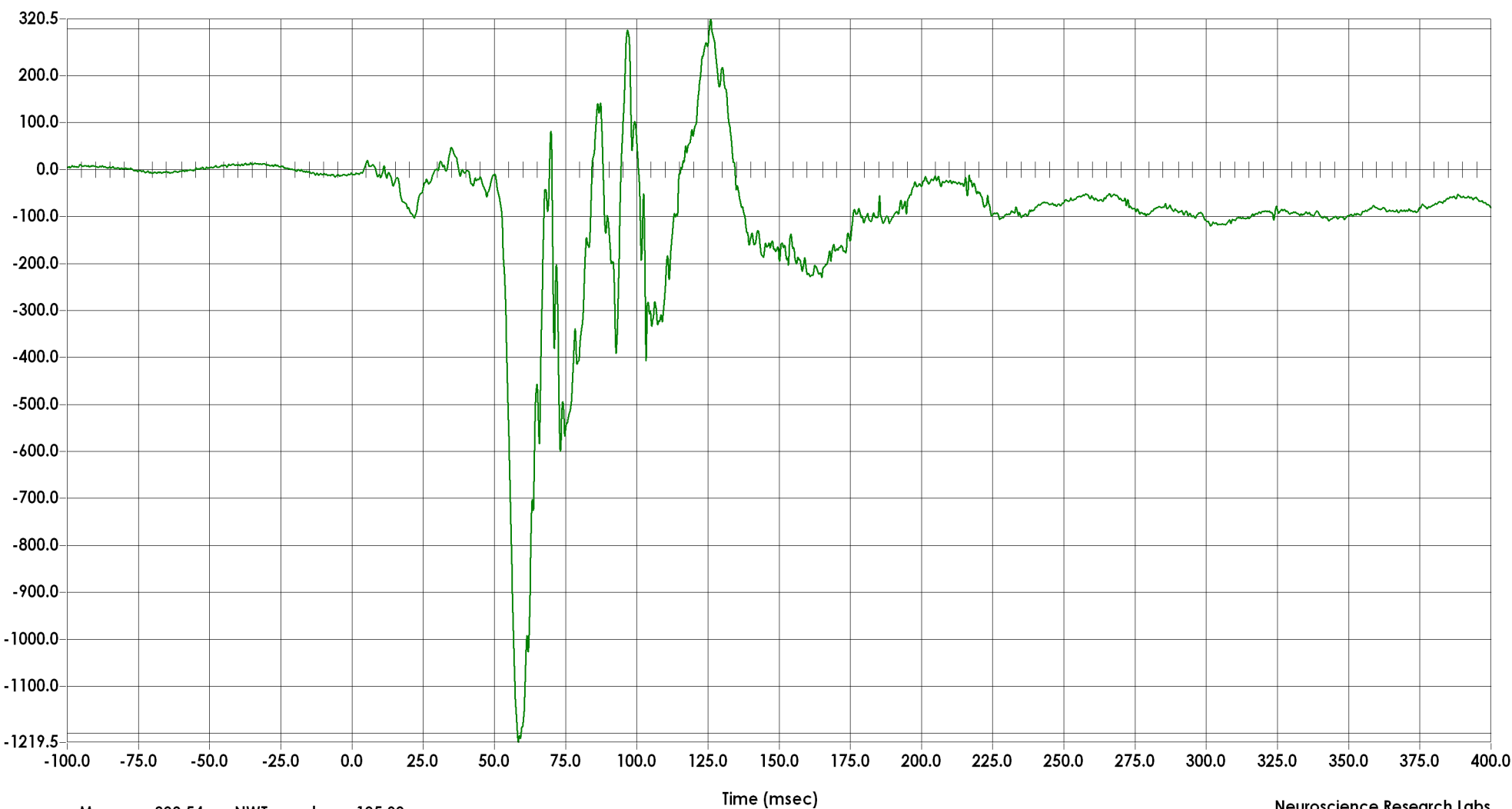
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLU
Sensor Info Denton 4509J
Serial Number 4509J_104_FZ



NWT Driver Left Upper Tibia Force ZL



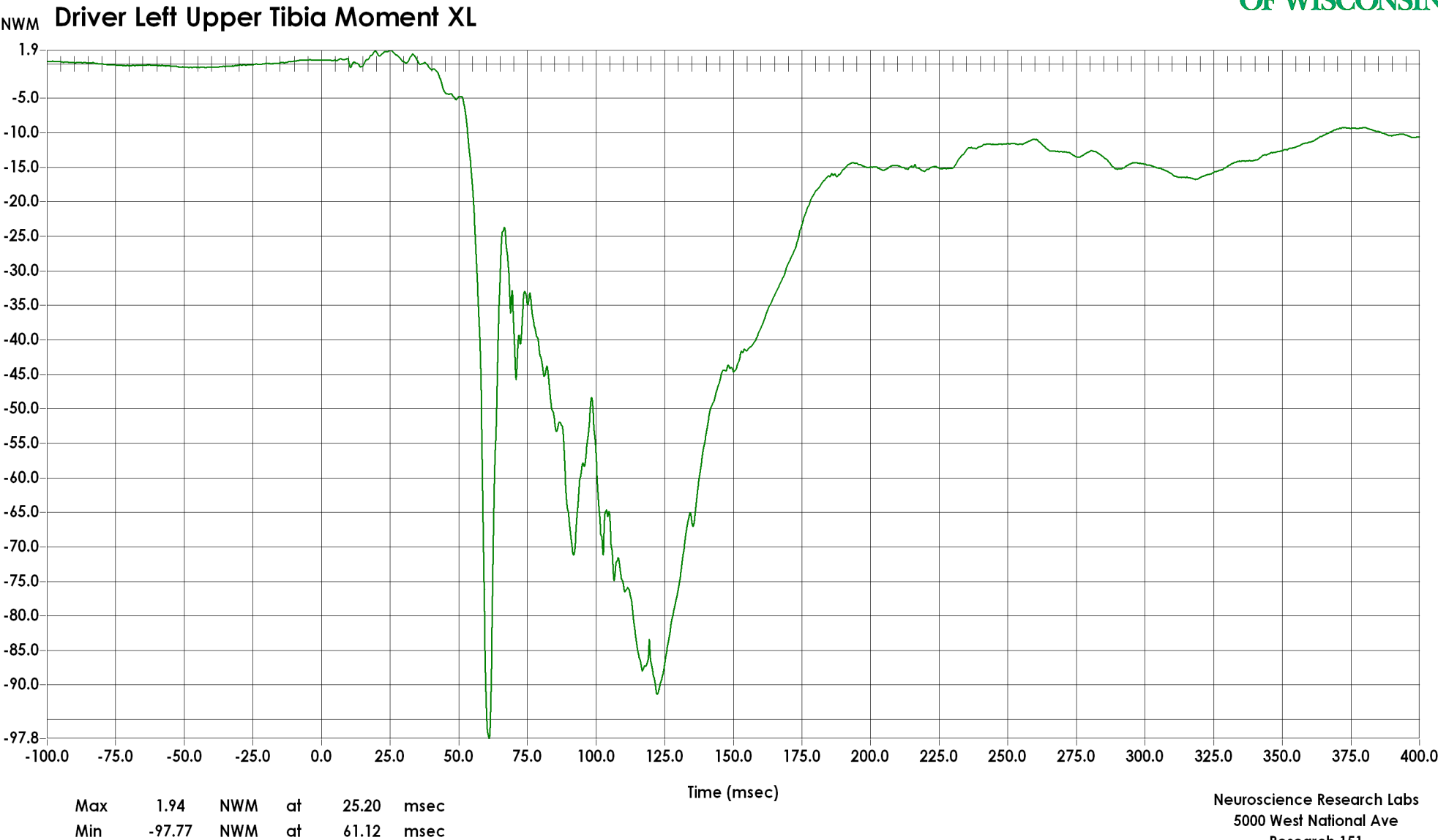
Max 320.54 NWT at 125.92 msec
Min -1219.47 NWT at 58.40 msec

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Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLU
Sensor Info Denton 4509J
Serial Number 4509J_104_MX



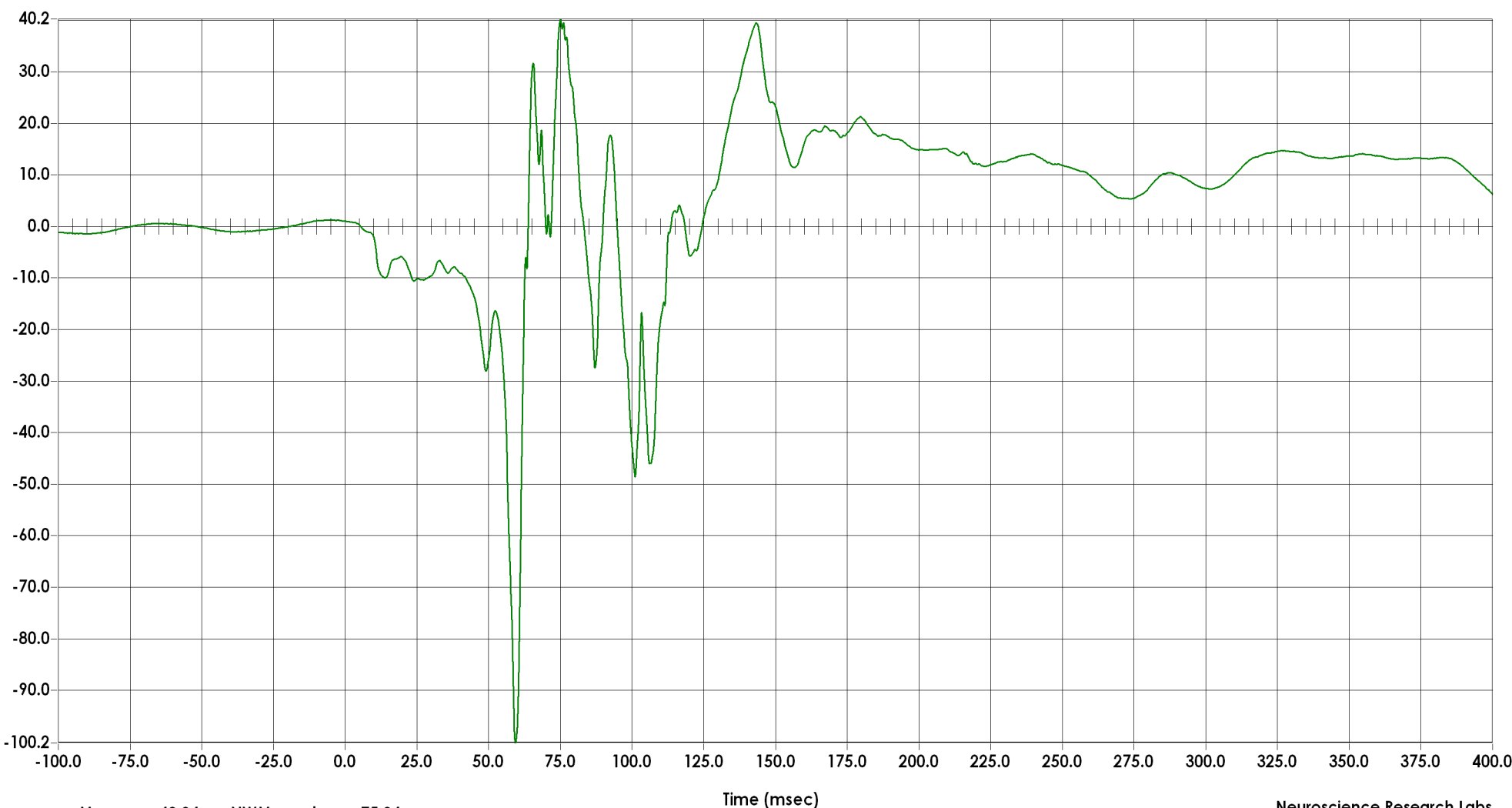
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLU
Sensor Info Denton 4509J
Serial Number 4509J_104_MY



NWM Driver Left Upper Tibia Moment YL



Max 40.24 NWM at 75.04 msec
Min -100.22 NWM at 59.36 msec

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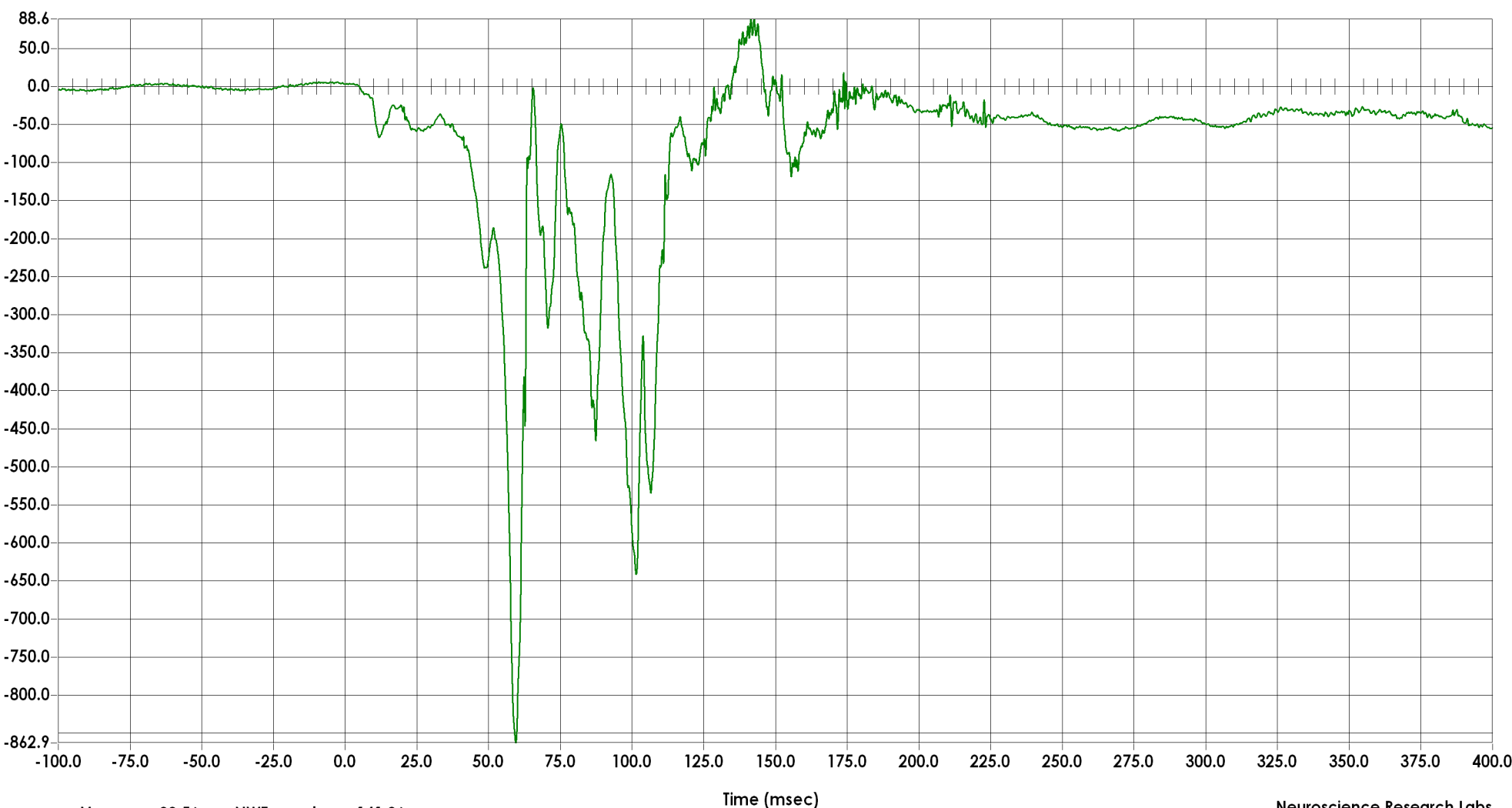
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLL
Sensor Info Denton 4929J
Serial Number 4929J_140_FX



NWT Driver Left Lower Tibia Force XL



Max 88.56 NWT at 141.36 msec
Min -862.89 NWT at 59.52 msec

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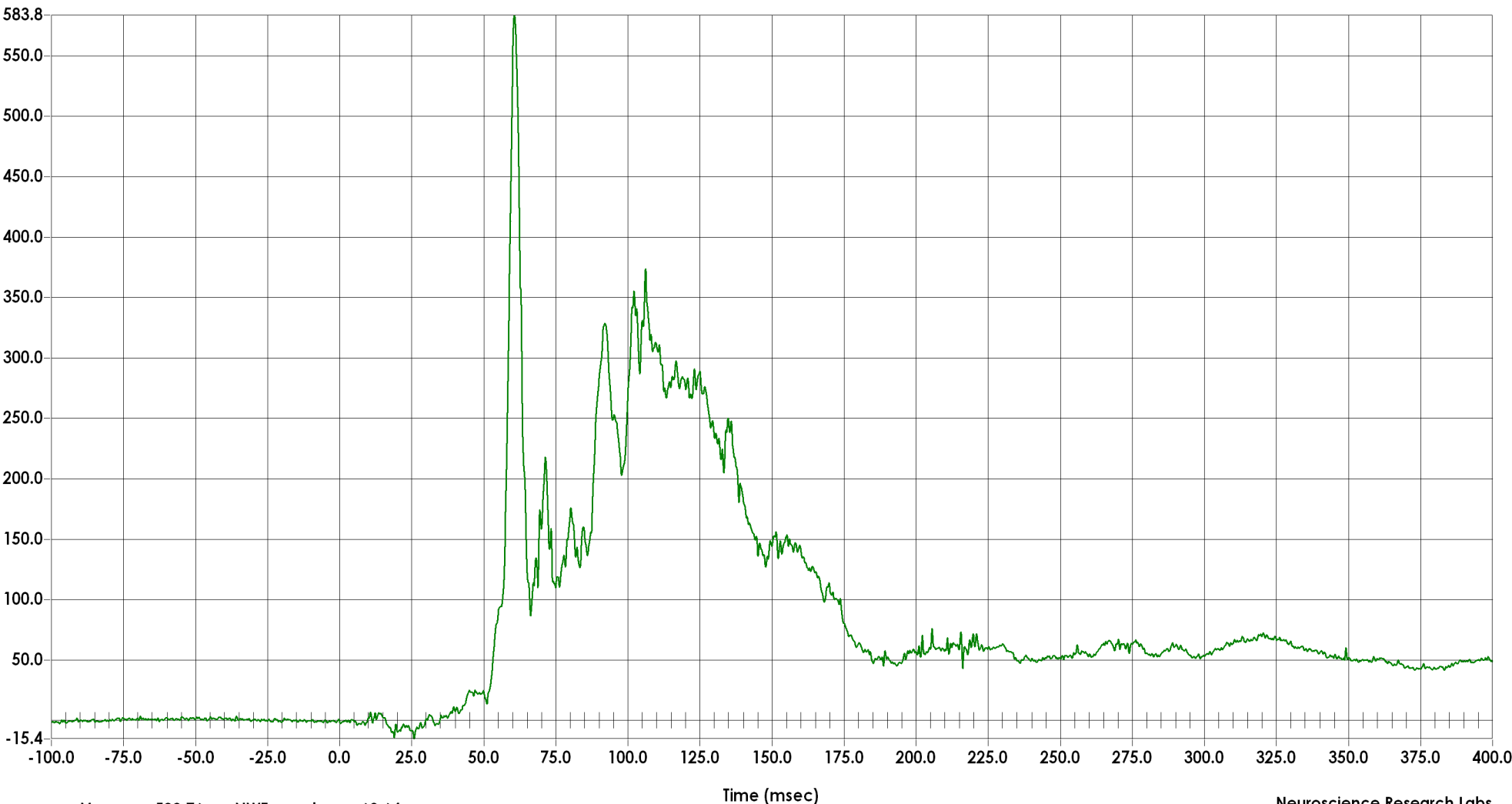
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location TBLL
Sensor Info Denton 4929J
Serial Number 4929J_140_FY



NWT Driver Left Lower Tibia Force YL



Max 583.76 NWT at 60.64 msec
Min -15.38 NWT at 25.84 msec

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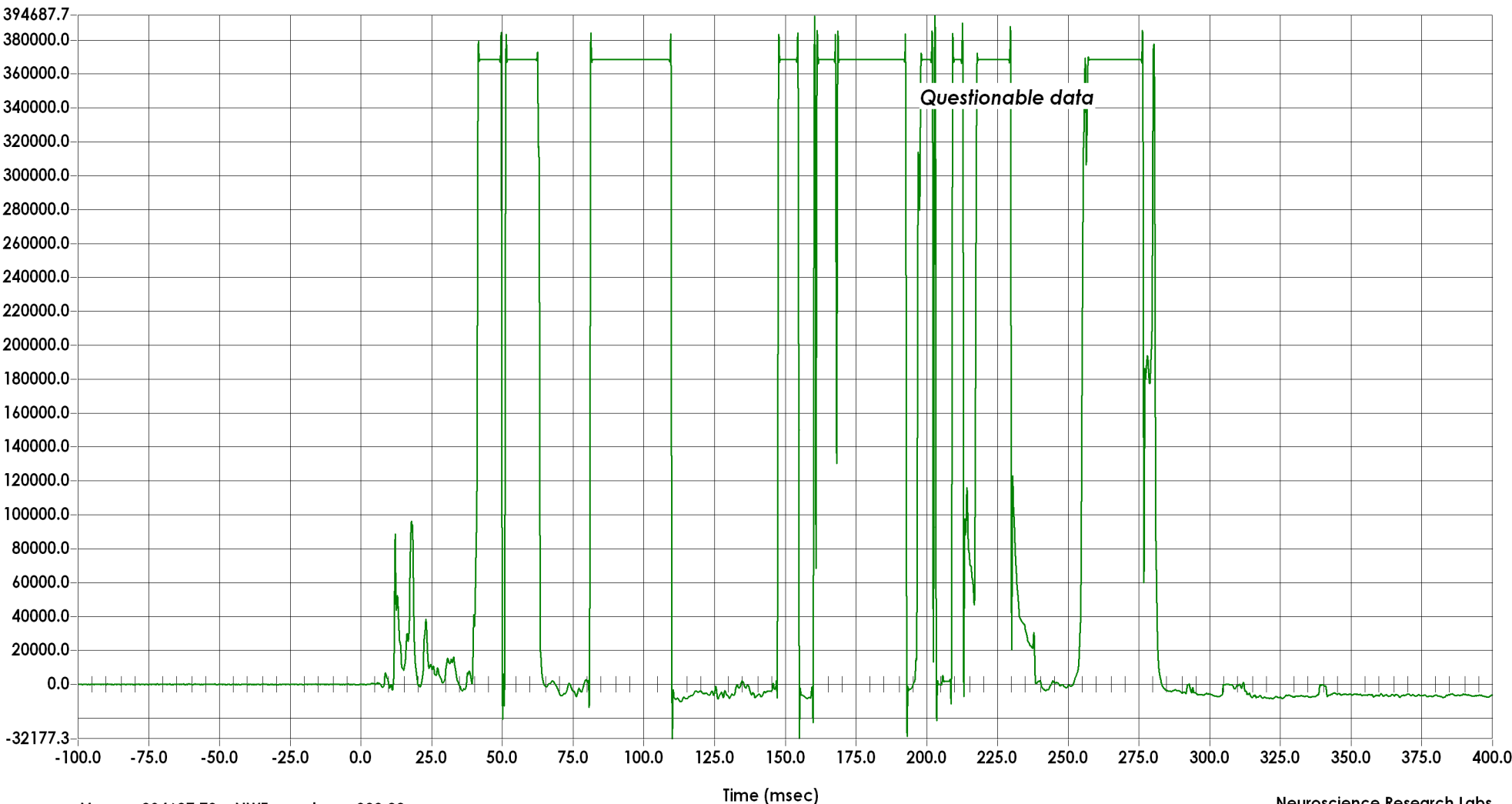
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info Interface 1220ACK-50K-B
Serial Number 1220ACK-50K-B_332407



NWT Pole Load Cell #1 YG



Max 394687.70 NWT at 202.88 msec
Min -32177.33 NWT at 110.08 msec

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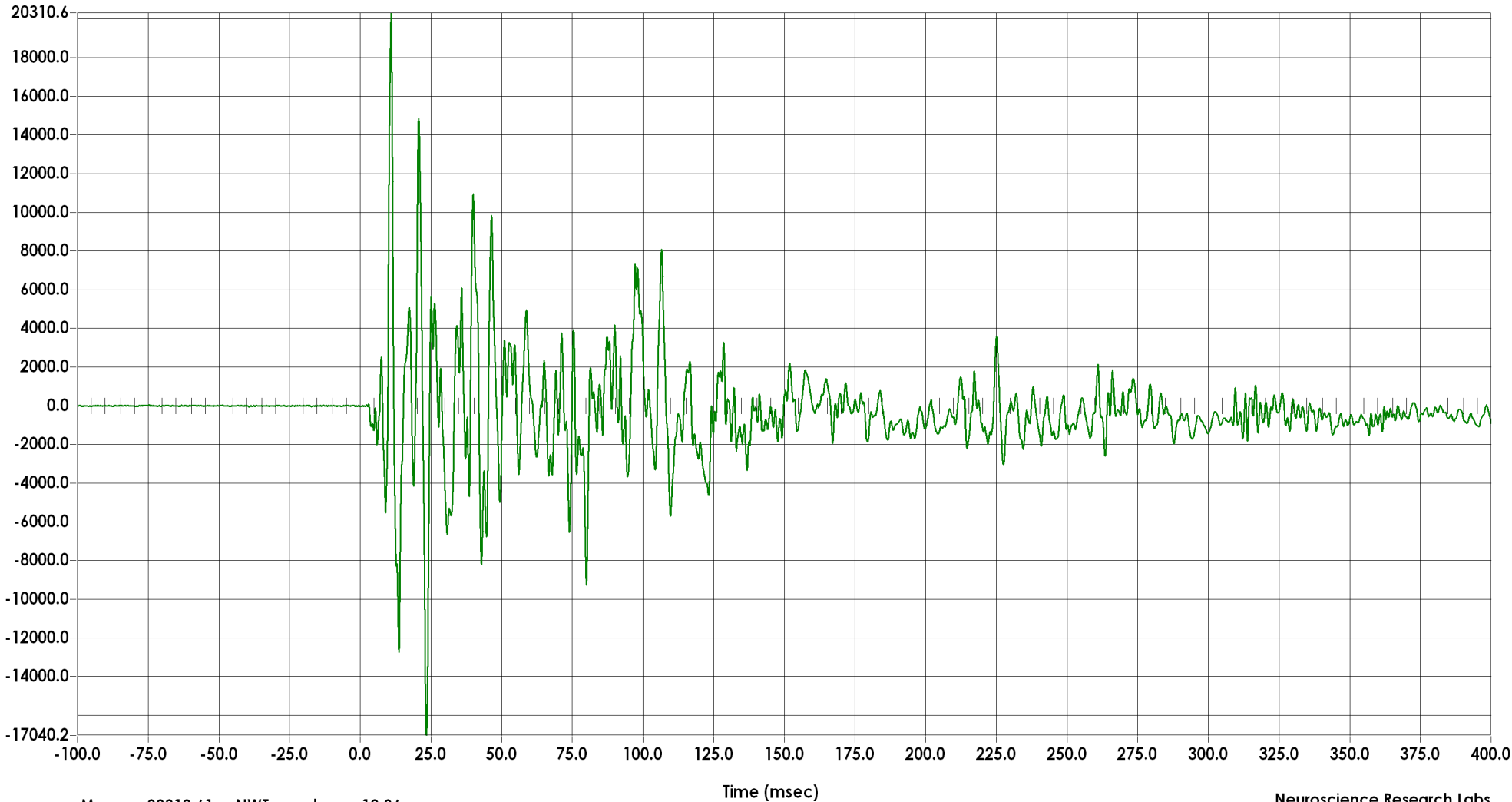
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info Interface 1220ACK-50K-B
Serial Number 1220ACK-50K-B_332420



NWT Pole Load Cell #2 YG



Max 20310.61 NWT at 10.96 msec
Min -17040.19 NWT at 23.44 msec

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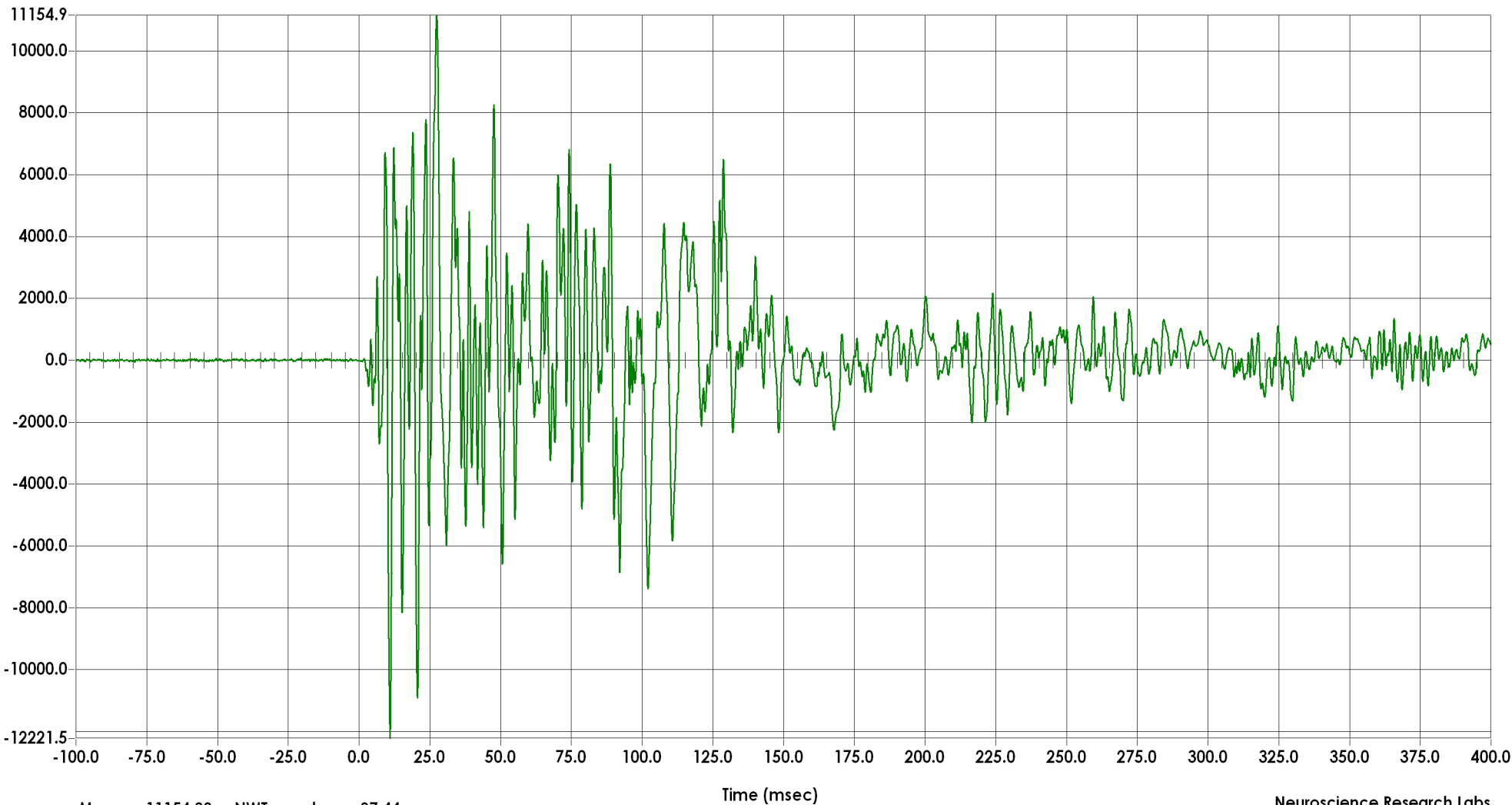
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Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info Interface 1220ACK-50K-B
Serial Number 1220ACK-50K-B_330820



NWT Pole Load Cell #3 YG



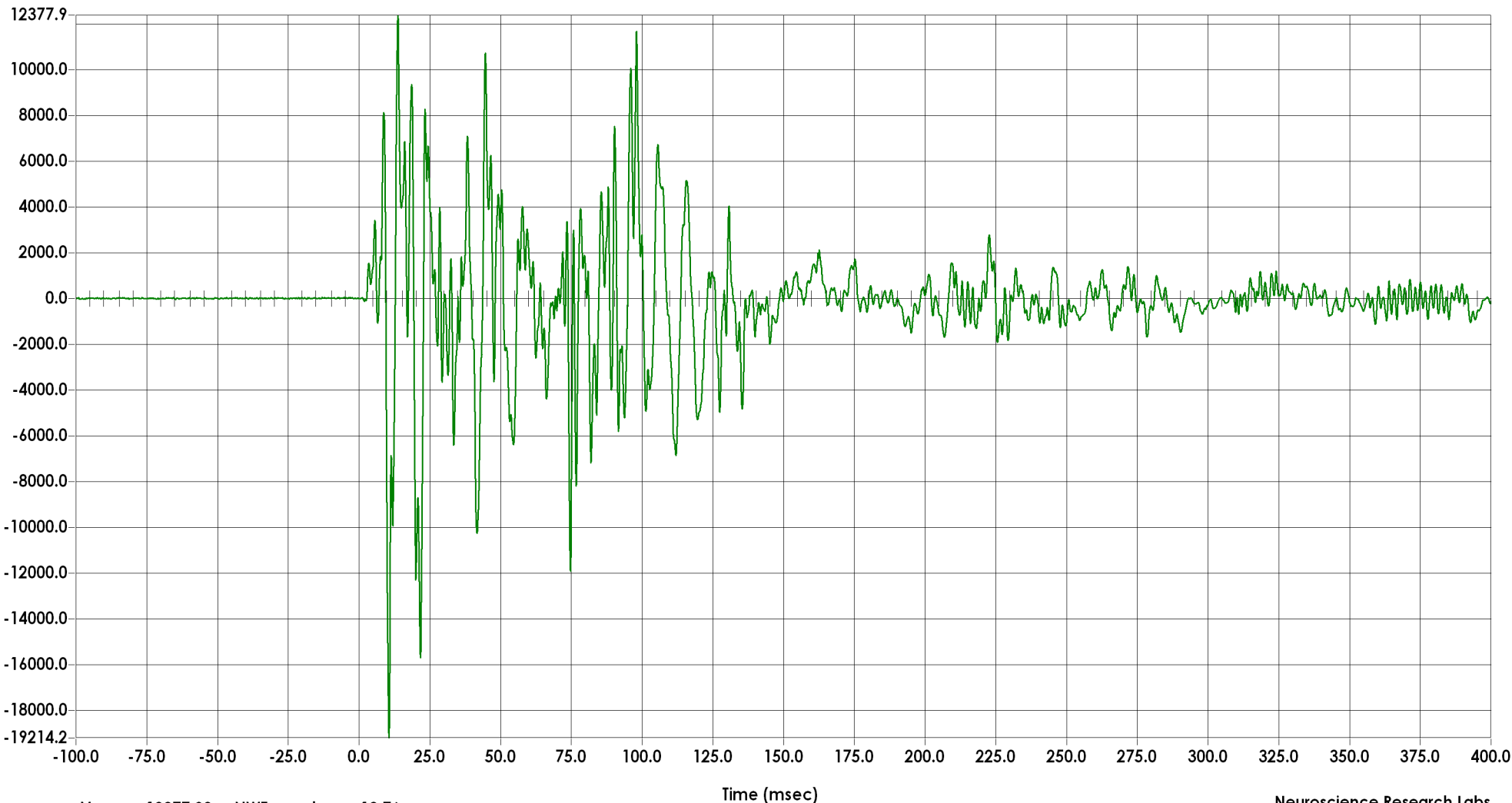
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info Interface 1220ACK-50K-B
Serial Number 1220ACK-50K-B_332400



NWT Pole Load Cell #4 YG



Max 12377.90 NWT at 13.76 msec
Min -19214.23 NWT at 10.56 msec

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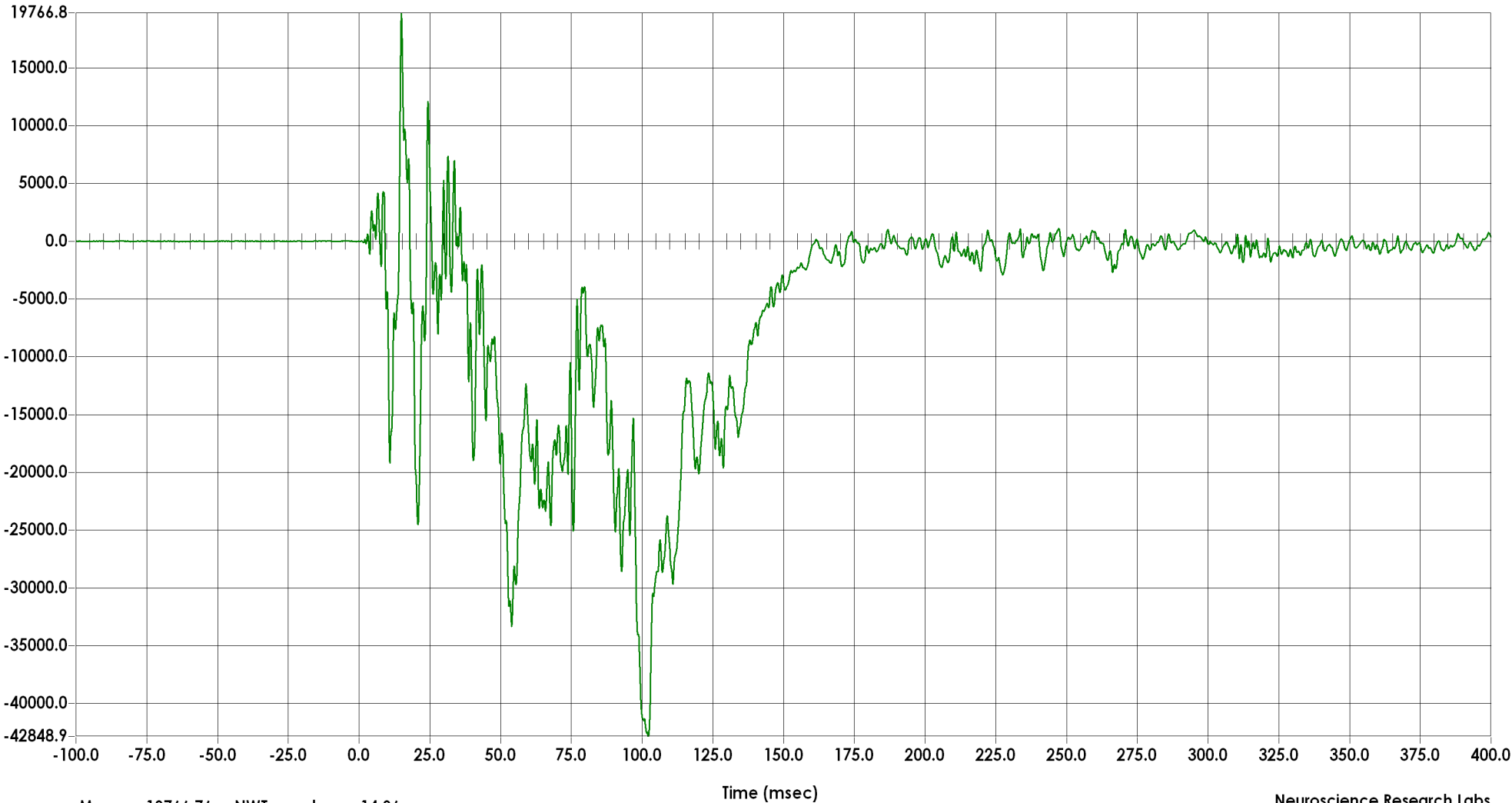
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info Interface 1220ACK-50K-B
Serial Number 1220ACK-50K-B_330824



NWT Pole Load Cell #5 YG



Max 19766.76 NWT at 14.96 msec
Min -42848.86 NWT at 102.24 msec

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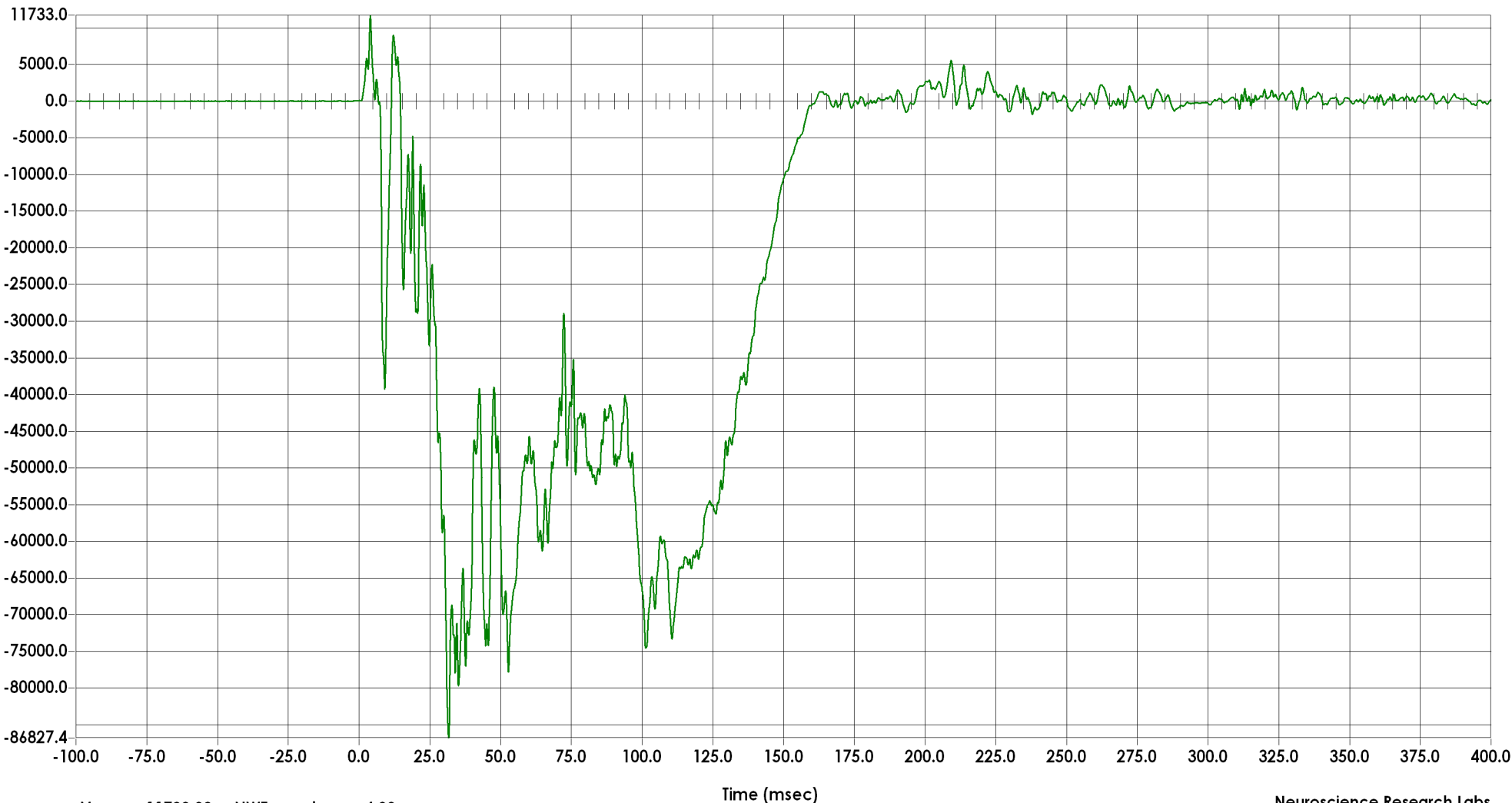
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info Interface 1220ACK-50K-B
Serial Number 1220ACK-50K-B_334238



NWT Pole Load Cell #6 YG



Max 11733.03 NWT at 4.00 msec
Min -86827.36 NWT at 31.68 msec

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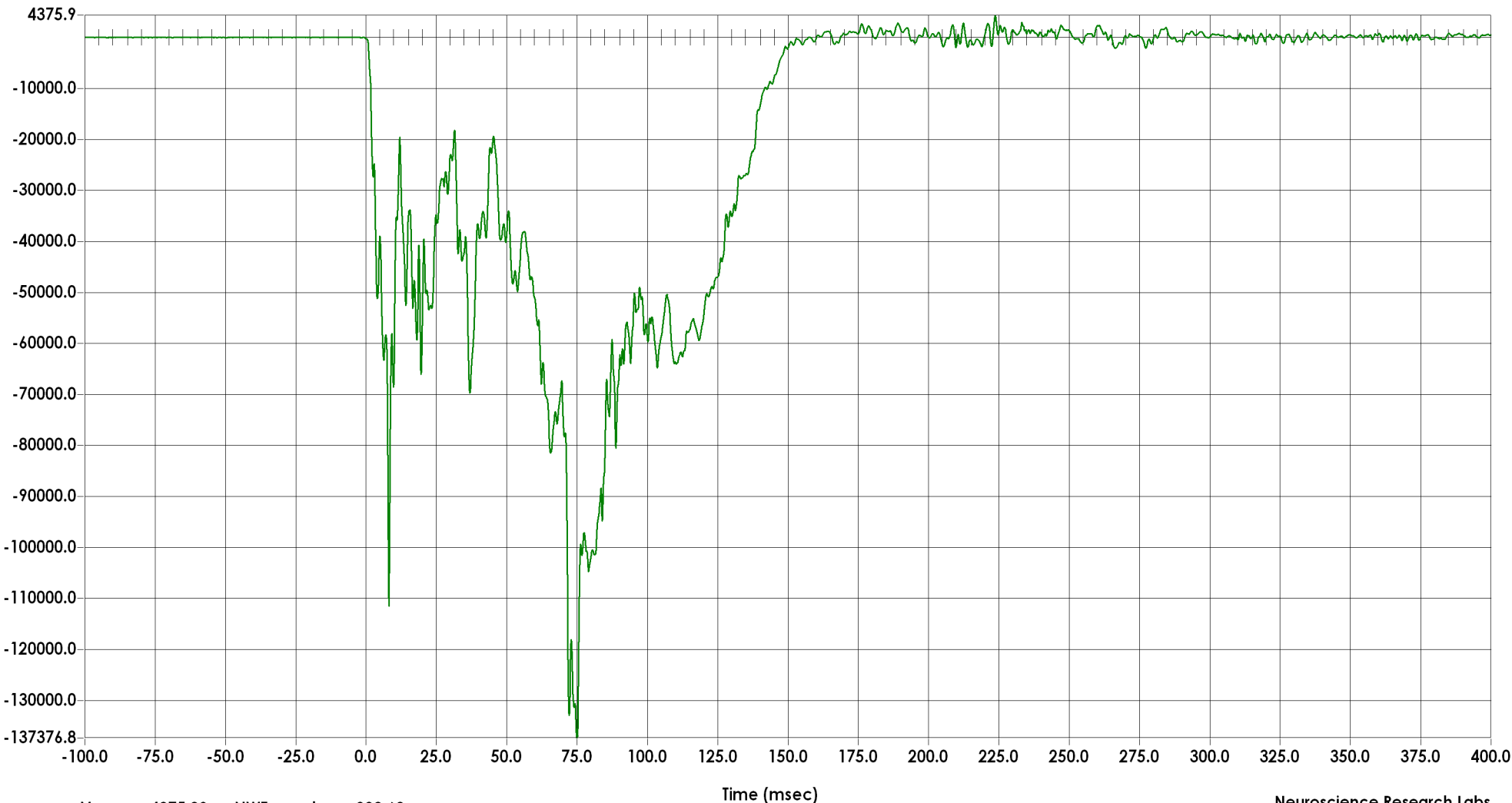
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info Interface 1220ACK-50K-B
Serial Number 1220ACK-50K-B_330834



NWT Pole Load Cell #7 YG



Max 4375.89 NWT at 223.68 msec
Min -137376.78 NWT at 74.96 msec

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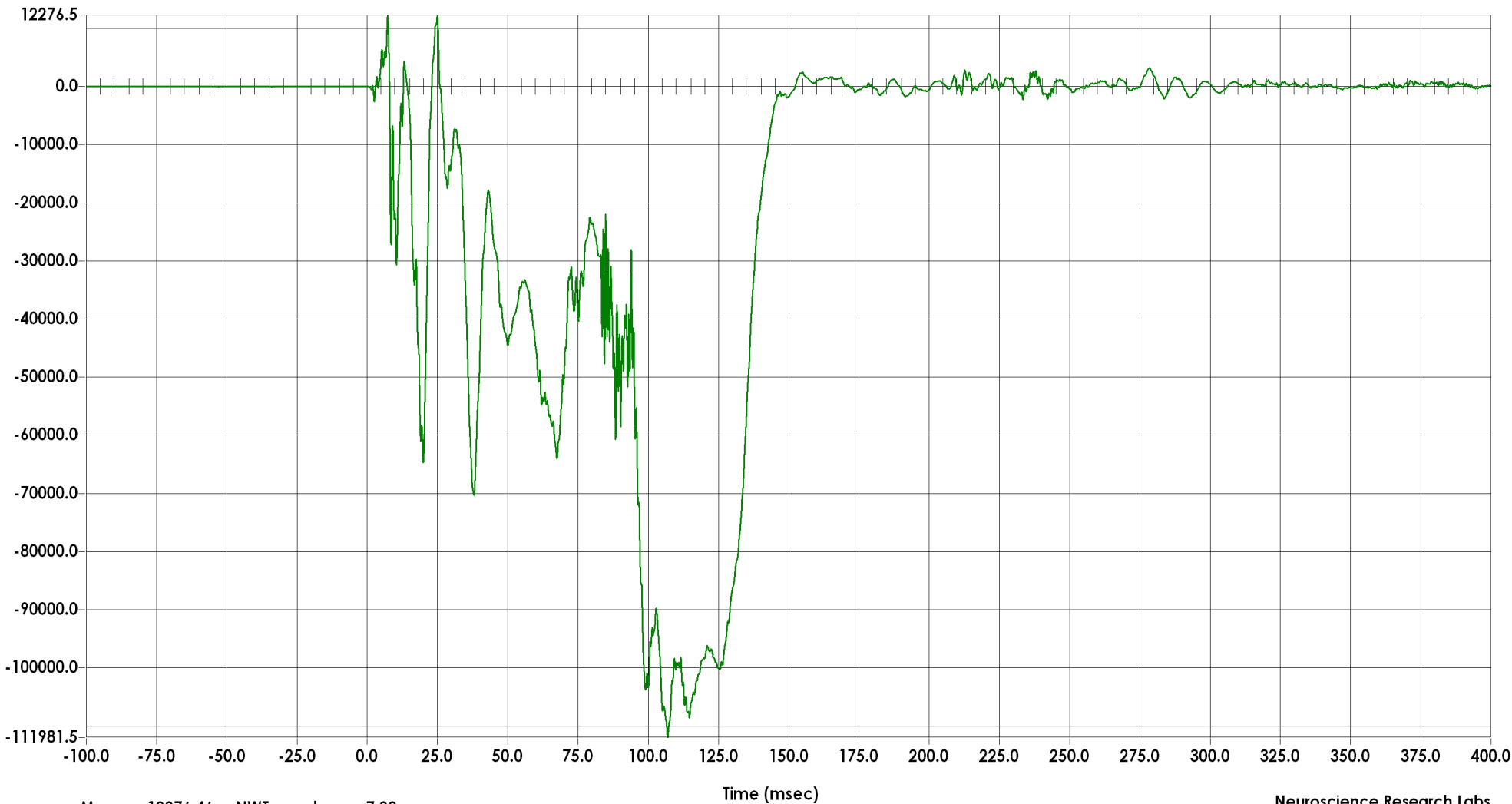
Test ID SOI002
Date 02-03-2010
Description 2005 Honda Civic w/out ACE structure, small overlap
test into pole, 35 mph

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 10000
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info Interface 1220ACK-50K-B
Serial Number 1220ACK-50K-B_332403



NWT Pole Load Cell #8 YG



Max 12276.46 NWT at 7.28 msec
Min -111981.51 NWT at 106.88 msec

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