

REPORT NUMBER: MCW-DOT-SOI001

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

**2009 HONDA CIVIC 4-DOOR SEDAN CRABBED INTO POLE
AIM FOR THE HEAD PROCEDURE**

**TEST DATE: 21 JANUARY 2010
NHTSA NUMBER:**

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**FINAL REPORT SUBMITTED:
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Date:

Reviewed by:_____

Date:

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16. Abstract A 56.3 km/h Moving Test Platform with a crabbed 2009 Honda Civic 4-door sedan with ACE safety structure 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 21 January 2010. The impact velocity of the test platform was 56.0 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>518.3</td> <td>308.2</td> </tr> <tr> <td>Chest maximum resultant acceleration</td> <td>G's</td> <td>36.6</td> <td>36.3</td> </tr> <tr> <td>Maximum chest deflection</td> <td>MM</td> <td>33.6</td> <td>38.2</td> </tr> <tr> <td>Left femur maximum axial compressive force</td> <td>NWT</td> <td>-4786</td> <td>-2160</td> </tr> <tr> <td>Right femur maximum axial compressive force</td> <td>NWT</td> <td>****</td> <td>-495</td> </tr> </tbody> </table> **** Channel failed prior to testing							<u>Units</u>	<u>DRIVER</u>	<u>PASS.</u>	15 millisecond Head Injury Criteria (HIC15)		518.3	308.2	Chest maximum resultant acceleration	G's	36.6	36.3	Maximum chest deflection	MM	33.6	38.2	Left femur maximum axial compressive force	NWT	-4786	-2160	Right femur maximum axial compressive force	NWT	****	-495
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17. Key Words New Car Assessment Program (NCAP) Side impact Side Impact Hybrid III Dummy (SID/HIII) Occupant side impact protection			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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SECTION 1

PURPOSE

This 56.0 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.

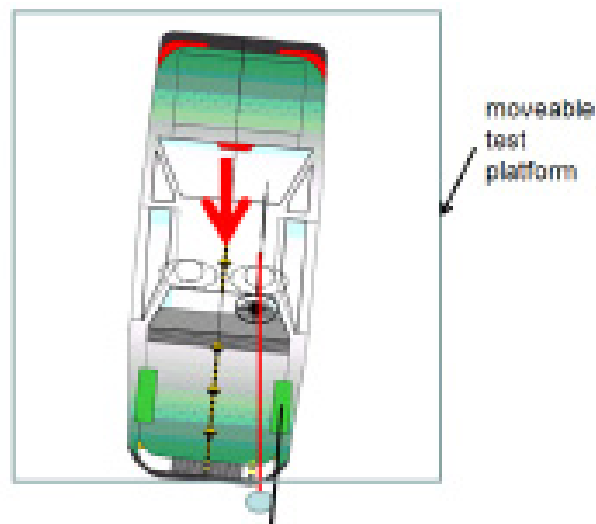
**No TO was given for the soi001. Interagency Agreement (IAA) no: 22-09-X-00193.*

SECTION 2

SUMMARY OF TEST

A model year 2009 Honda Civic 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 56.0 km/h (34.8 mph). The vehicle was crabbed at 6 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 1446.0 kg (3187.9 lbs). The test was conducted by The Medical College of Wisconsin on 21 January 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 95.0% and 100% 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 148 mm at DPD 6 to the left of the vehicle's centerline. *DPD measurements at the lower bumper beam were not able to be taken due to the bumper becoming completely disengaged from the vehicle during testing.* Full vehicle measurements are presented in Section 3 of this report.

All four vehicle doors remained closed and latched during the test. No doors were all jammed shut as a result of the impact. The right front and right 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 head contacted the steering wheel airbag and the driver's side window, the chest contacted the steering wheel airbag, there was no abdomen contact, the left knee contacted the knee bolster, steering column, and the interior door panel, and the right knee contacted the knee bolster and the steering column.

The left rear passenger ATD's visible contact points are as follows: The chin contacted the sternum, and during rebound, the back/right side of the head went to the seat back, there was no chest contact, the abdomen also had no contact, and submarined underneath the lap-belt, and the left and right knees contacted the seat back.

SECTION 2b
CRASH VEHICLE SUMMARY

PRIMARY IMPACT DATA		
Measured Parameter	Units	Value
Velocity at impact	km/h	56.0
Vehicle test weight	kg	1446.0
Vehicle angle	°	6.0
Vehicle maximum static crush	mm	148
Vertical offset from target point	mm	8 (above)
Lateral offset from target point	mm	1 (left)
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	To steering wheel airbag and driver's side window	Chin to sternum and back/right side of head to seat back
Chest contact	To steering wheel airbag	No contact
Abdomen contact	No contact	No contact, sub-marined underneath lap-belt
Left knee contact	To knee bolster, steering column, and interior door panel	To seat back
Right knee contact	To knee bolster and steering column	To seat back

SECTION 2c
ATD SUMMARY

DRIVER				
Loc.	Nomenclature	Source	Max	Min
Head	Angular acceleration (rad/sec ²)	SIMon	900	-1100
	Angular acceleration (rad/sec ²)	SIMon	3000	-2900
	Angular acceleration (rad/sec ²)	SIMon	2500	-1850
	Angular velocity (rad/sec)	SIMon	11.0	-6.0
	Angular velocity (rad/sec)	SIMon	15.0	-27.5
	Angular velocity (rad/sec)	SIMon	30.0	-12.5
	36 ms clip	Compute	660.5	
	15 ms clip	Compute	518.3	
	Skull fracture correlate	Compute	65.5	
	Cumulative strain (tolerance = 0.05)	SIMon	0.95	
	Cumulative strain (tolerance = 0.10)	SIMon	0.48	
	Cumulative strain (tolerance = 0.15)	SIMon	0.09	
	Head resultant CG acceleration (G's)	Compute	74.2	
Neck	UNLC Fx transferred to OC, neck system (N)	1000	195.9	-211.9
	UNLC Fz neck system tension (N)	1000	927.8	-1020.0
	UNLC Fz neck system compression (N)	1000		-380.2
	UNLC My transferred to OC, neck system flexion (Nm)	Compute	9.2	
	UNLC My transferred to OC, neck system extension (Nm)	Compute	-8.3	
	On head acting through total neck section Fx (N)	Thortest	143.1	-406.6
	On head acting through total neck section Fy (N)	Thortest	433.8	-98.7
	On head acting through total neck section Fz (N)	Thortest	678.2	-608.0
	On head acting through tot. neck sect. Mx (Nm)	Thortest	17.1	-23.9
	On head acting through tot. neck sect. My (Nm)	Thortest	25.6	-23.3
	On head acting through tot. neck sect. Mz (Nm)	Thortest	6.66	-19.5
	On head acting through O.C. joint only Fx(N)	Thortest	239.3	-451.2
	On head acting through O.C. joint only Fz (N)	Thortest	874.4	-384.7
	On head acting through O.C. joint only My (Nm)	Thortest	7.76	-6.45
Chest	Upper CRUX x-deflection, right (mm)	Thortest	0.30	-30.5
	Upper CRUX y-deflection, right (mm)	Thortest	0.02	-18.8
	Upper CRUX z-deflection, right (mm)	Thortest	11.9	-0.68
	Upper CRUX "d" displacement, right (mm)	Thortest	0.04	-31.2
	Upper CRUX x-deflection, left (mm)	Thortest	3.51	-7.63
	Upper CRUX y-deflection, left (mm)	Thortest	0.04	-9.28
	Upper CRUX z-deflection, left (mm)	Thortest	10.3	-1.89
	Upper CRUX "d" displacement, left (mm)	Thortest	2.83	-7.4

SECTION 2c
ATD SUMMARY (CONTINUED)

Chest	Lower CRUX x-deflection, right (mm)	Thortest	0.05	-20.4
	Lower CRUX y-deflection, right (mm)	Thortest	6.23	-3.93
	Lower CRUX z-deflection, right (mm)	Thortest	11.0	-3.07
	Lower CRUX "d" displacement, right (mm)	Thortest	0.02	-22.2
	Lower CRUX x-deflection, left (mm)	Thortest	8.40	-0.35
	Lower CRUX y-deflection, left (mm)	Thortest	0.88	-8.65
	Lower CRUX z-deflection, left (mm)	Thortest	8.87	-8.57
	Lower CRUX "d" displacement, left (mm)	Thortest	10.7	-1.38
	Chest CG acceleration, 3 ms clip (G's)	Compute	36.6	
Abdomen	Max upper string pot (mm)	Compute	33.6	-0.35
	Upper viscous criteria	Compute	0.47	
	Lower right x-deflection (mm)	Thortest	21.1	-0.04
	Lower right y-deflection (mm)	Thortest	0.06	-2.45
	Lower right z-deflection (mm)	Thortest	0.05	-20.3
	Right viscous criterion based on x-deflection	Compute	0.28	
	Lower left x-deflection (mm)	Thortest	0.03	-43.4
	Lower left y-deflection (mm)	Thortest	0.02	-8.69
	Lower left z-deflection (mm)	Thortest	1.94	-2.65
Pelvis	Left viscous criterion based on x-deflection	Compute	0.19	
	Pelvis CG resultant acceleration (G's)	Compute	32.8	
Acetabulum	Right Fx force (N)	600	236.5	-2378.1
	Right Fy force (N)	600	349.1	-595.7
	Right Fz force (N)	600	1626.0	-233.2
	Resultant force (N)	Compute	2863.5	
	Left Fx force (N)	600	349.5	-2065.1
	Left Fy force (N)	600	****	****
	Left Fz force (N)	600	1055.5	-674.6
	Resultant force (N)	Compute	*	
Femur	Right Fz force (N)	600	****	****
	Right Mx moment (Nm)	600	50.2	-46.2
	Right My moment (Nm)	600	96.2	-38.6
	Resultant force (N)	Compute	*	
	Left Fz force (N)	600	254.0	-4785.5
	Left Mx moment (Nm)	600	57.4	115.8
	Left My moment (Nm)	600	93.1	-23.8
	Resultant force (N)	Compute	4792.4	

* Cannot calculate due to incomplete data set

**** Channel failed

SECTION 2c
ATD SUMMARY (CONTINUED)

PASSENGER				
Loc.	Nomenclature	Source	Max	Min
Head	Angular acceleration (rad/sec ²)	SIMon	2000	-6500
	Angular acceleration (rad/sec ²)	SIMon	9500	-1000
	Angular acceleration (rad/sec ²)	SIMon	5500	-3750
	Angular velocity (rad/sec)	SIMon	28.0	-15.0
	Angular velocity (rad/sec)	SIMon	600.0	-25
	Angular velocity (rad/sec)	SIMon	25.0	-50.0
	36 ms clip	Compute	615.7	
	15 ms clip	Compute	308.2	
	Skull fracture correlate	Compute	53.2	
	Head resultant CG acceleration (G's)	Compute	56.8	
Neck	Upper neck tension (N)	1000	1020.0	
	Upper neck compression (N)	1000		-380.2
	Upper neck NTF	Compute	0.51	
	Upper neck NTE	Compute	0.32	
	Upper neck NCF	Compute	0.08	
	Upper neck NCE	Compute	0.38	
Chest	Chest deflection (mm)	Thoritest	38.3	-0.16
	Chest CG acceleration, 3 ms clip (G's)	Compute	36.3	
Femur	Right Fz force (N)	600	620.0	-494.0
	Left Fz force (N)	600	706.5	-2160.7

SECTION 2d

TEST NOTES/ DATA ANOMOLIES

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA

VEHICLE INFORMATION		VEHICLE OPTIONS	
NHTSA no.	Non-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	2009	Driver side airbag	Yes
VIN	1HGFA16549L016425	Driver head airbag	No
Color	Smoke Grey	Driver curtain airbag	Yes
Delivery date	November 2, 2009	Driver knee airbag	No
Odometer reading (mi)	9582	Pass. front airbag	No
Odometer reading (km)	15,421	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 only
Type/no. of cylinders	4	Load limiters	Yes – front and rear
Engine disp. (L)	1.8	Bucket seats	Yes
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

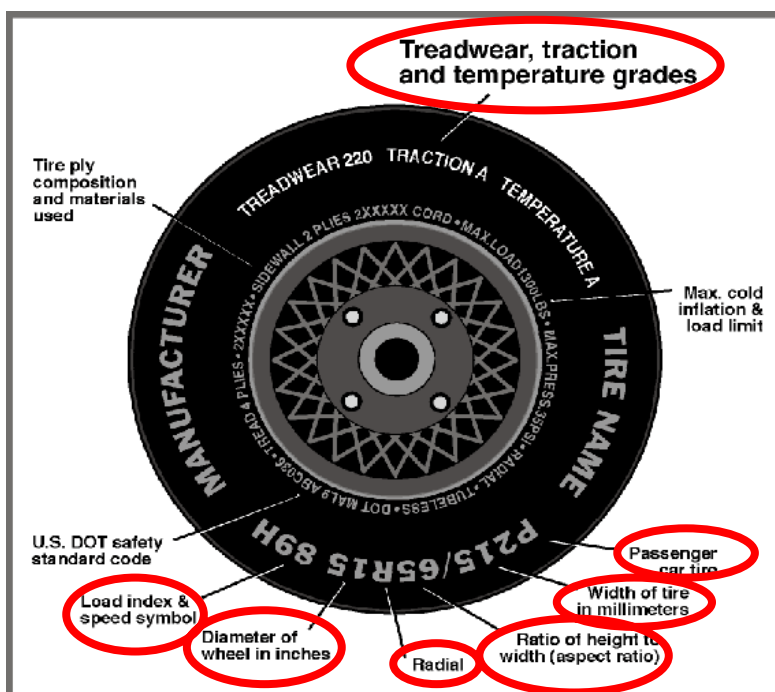
Does owner's manual provide instructions to turn off automatic door locks?

Yes

DATA FROM CERTIFICATION LABEL			
Manufactured by	Honda of America Mfg., Inc.	GVWR (kg)	1165
		GAWR front (kg)	880
Date of manufacture	Nov 2008	GAWR rear (kg)	785

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)	220.6 – placard/303.4 - tire	220.6 – placard/303.4 – tire
Cold / test pressure (kPa)	220.6	220.6
Recommended tire size	P205/55R16	P205/55R16
Tire size on vehicle	P205/55R16	P205/55R16
Tire manufacturer	Goodyear	Goodyear
Tire model	Eagle	Eagle
Treadware	260	260
Traction	A	A
Temperature grade	A	A
Tire plies sidewall	2	2
Tire plies body	8	8
Load index & speed symbol	89H	89H
Tire material	Polyester cord, steel cord, and nylon cord	Polyester cord, steel cord, and nylon cord
DOT safety code (right)	4208	4208
DOT safety code (right)	M6T2	M6T2

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	308.4	316.6		428.6	338.8	
Right	kg	309.4	318.0		374.2	304.4	
Ratio	%	49.3	50.7		55.5	44.5	
Totals	kg	617.8	634.6	1252.4	802.8	643.2	1446.0

TARGET TEST WEIGHT CALCULATION		
	Units	Value
Total delivered weight (UVW)	kg	1252.4
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	1452.4

TEST VEHICLE ATTITUDES AND CG						
	Units	LF	RF	LR	RR	CG (aft of front axle)
As delivered	mm	676	688	689	698	1375
As tested	mm	656	674	646	667	1207
Post test	mm	618	671	642	743	

GENERAL TEST VEHICLE DATA		
Measurement description	Units	Value
Total vehicle wheel base	mm	2713
Total vehicle length at left side	mm	4285
Total vehicle length at centerline	mm	4505
Total vehicle length at right side	mm	4285
Weight of ballast in cargo area	kg	None
Weight of vehicle components removed	kg	0.58
Amt of Stoddard solvent in fuel tank	L	46.5

Mass of ballast added (kg): No ballast added

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	4505
2	Total width	1750
3	Bumper top height	400
4	Bumper bottom height	490
5	Longitudinal member top height	210
6	Longitudinal member bottom height	145
7	Distance between longitudinal members	695
8	Longitudinal member width	960
9	Engine top height	760
10	Engine bottom height	172
11	Engine and gearbox width	850
12	Front bumper – engine distance	380
13	Bonnet leading edge height	665
14	Front shock absorber fixing width	1150
15	Front bumper – front axle distance	813
16	Front axle – A pillar distance	508
17	A pillar – B pillar distance	1095
18	B pillar – rear axle distance	1110
19	B – pillar – C – pillar distance	1070
20	Roof sill bottom height	1385
21	Roof sill top height	1445
22	Floor sill bottom height	218
23	Floor sill top height	350

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):

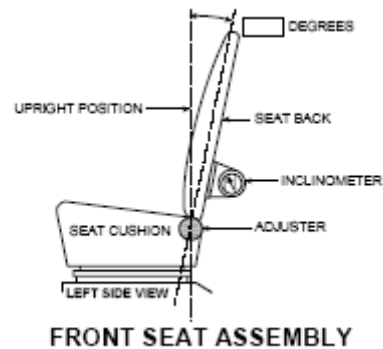
PROPULSION BATTERY SYSTEM

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:	12.1°
Passenger seat back angle:	Non-adjustable

Seat fore/aft positions

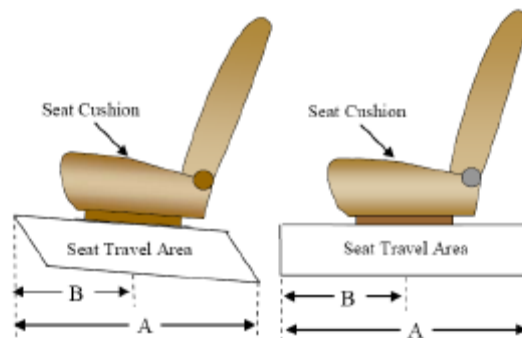
The total seat travel was measured from forward most position to rearmost position, irrespective of vertical seat height in those positions. The seat was set at the longitudinal mid position with vertical adjustment at the lowest position obtainable for both the driver and passenger.

SEAT FORE/AFT POSITION		
	Total fore/aft travel	Placed in position #
Driver seat	280 mm	10 th notch from full forward
Passenger Seat	N/a	N/a

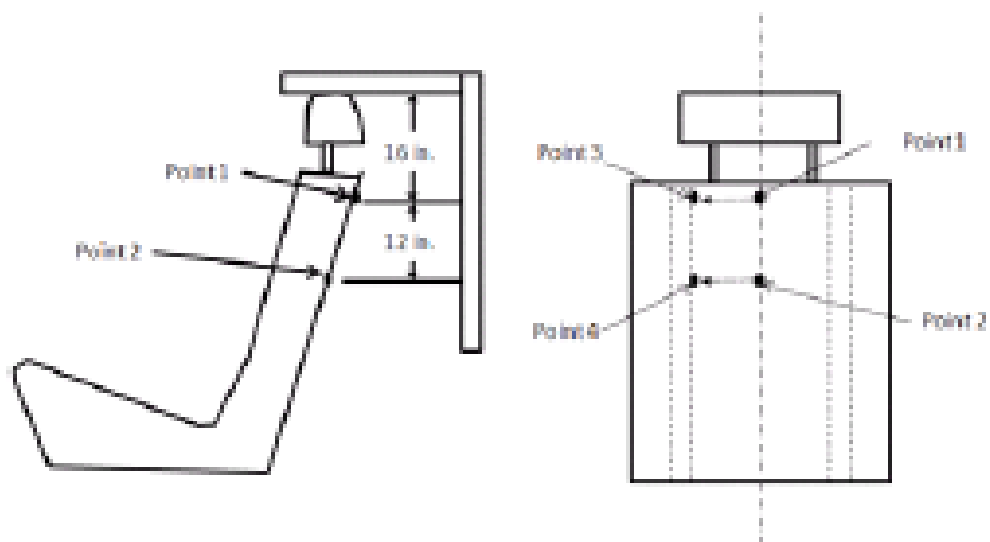
Seat belt position

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

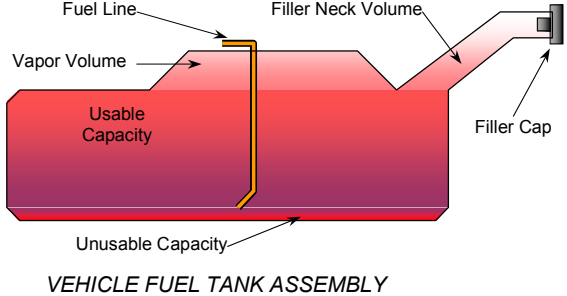


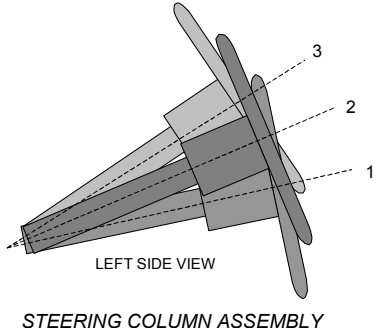
DATA SHEET NO. 2
SEAT ADJUSTMENT, FUEL SYSTEM, AND STEERING WHEEL (CONTINUED)



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

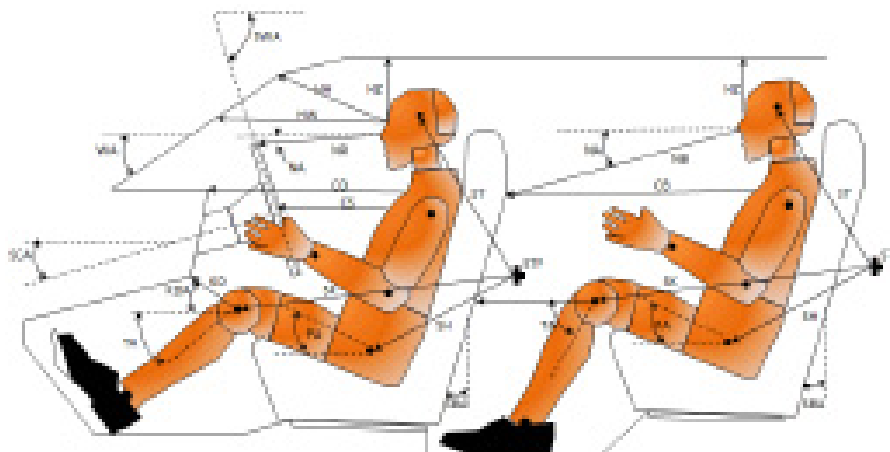
DATA SHEET NO. 2
SEAT ADJUSTMENT, FUEL SYSTEM, AND STEERING WHEEL (CONTINUED)

FUEL TANK CAPACITY			
Description	Units	Value	
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	46.5	
% Usable capacity (92%-94%)	%	93.0	
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	12.5°	
Geometric center position no. 2	17.8°	
Uppermost position no. 3	23.1°	
Telescopic steering wheel travel	34 mm	
Test position	Mid-position	
Steering wheel positioned 23.1 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



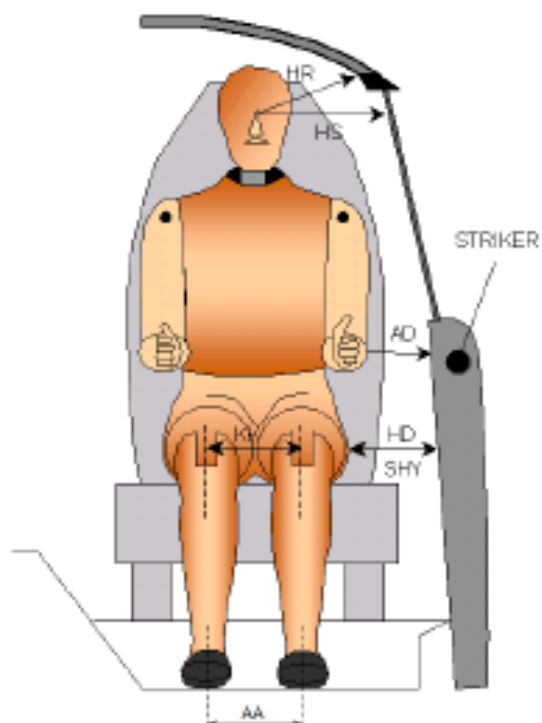
DUMMY LONGITUDINAL CLEARANCE MEASUREMENTS					
Code	Measurement description	Driver		LR passenger	
		Length (mm)	Angle (°)	Length (mm)	Angle (°)
WA°	Windshield angle		24.0		
S WA°	Steering wheel angle		67.6		
SCA°	Steering column angle		17.0		
SA°	Seat back angle (hr post)		11.4		
HZ	Head to roof (Z)	230		277	
HH	Head to header	422			
HW	Head to windshield	711			
NR/NB	Nose to rim/seat back	476	14.5		
CD/CB	Chest to dash/seat back	832		529	
CS	Chest to steering hub	367			
RA	Rim to abdomen	211			
KDL/KDR	Left knee to dash/seat back	97	5.5	297	
KDR/KBR	Right knee to dash/seat back	86	15.0	287	
PA°	Pelvic angle		23.9		22.1
TA°	Tibia angle		65.1		65.7
SK	Striker to knee	675		702	
ST	Striker to head	582		470	
SH	Striker to H-point	375		445	
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)	2115.5	-759.2	-67.6	1194.7	-759.7	-178.5
Head CG	2155.3	-450.7	-566.7	1263.2	-429.5	-492.1
Bridge of nose						
Tip of nose						
Shoulder bolt						
Tip of chin						
H-point	2358.7	-531.0	91.2	1475.0	-511.2	50.3
Left knee	2745.7	-544.9	-61.5	1799.8	-486.5	-28.6
Right knee						
Left ankle	3035.5	-594.8	246.5	1924.7	-445.3	275.4
Right ankle						
Left heel						
Right heel						
Driver's outboard seat anchor bolt						
Outboard head restraint post						
Top of head restraint						
Center of steering wheel	2662.9	-354.6	-289.0			

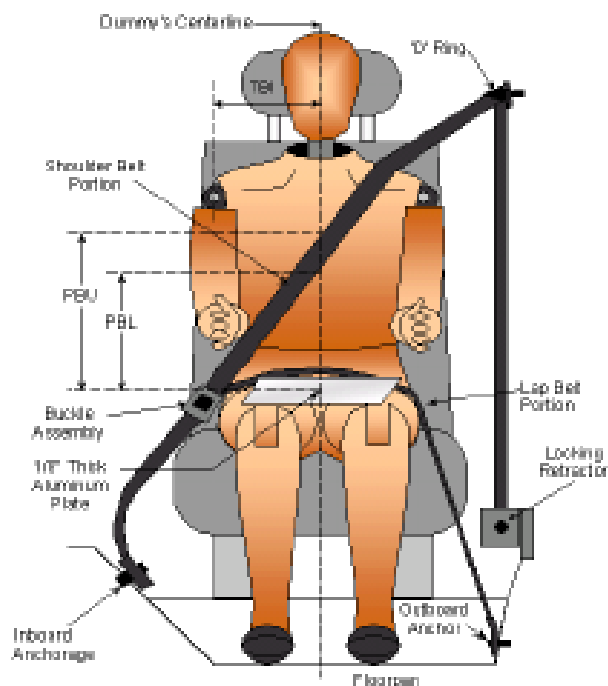
*Empty spaces reflect measurements not taken in the original test

DATA SHEET NO. 4
DUMMY LATERAL CLEARANCE DIMENSIONS



DUMMY LATERAL CLEARANCE DIMENSIONS			
Code	Description	Driver	LR passenger
AD	Arm to door	99	124
HD	H-point to door	136	175
HR	Head to side header	240	241
HS	Head to side window	300	274
KK	Knee to knee	281	240
SHY	Striker to H-point (Y direction)	228	275
AA	Ankle to ankle		

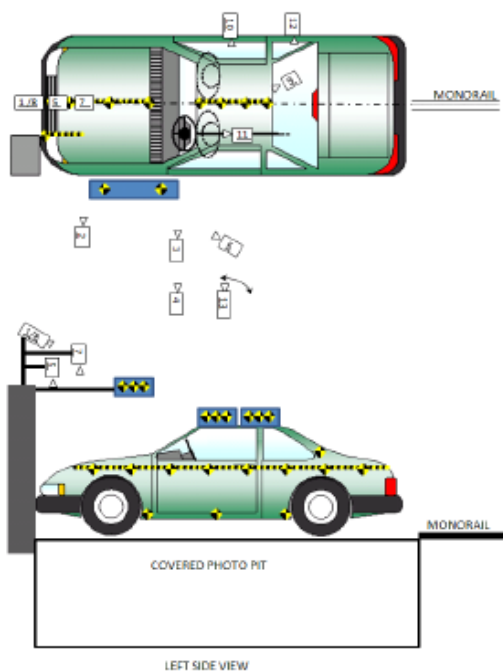
DATA SHEET NO. 5
SEAT BELT POSITIONING DATA



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	257	290
PBL	Top surface of aluminum plate to belt lower edge	mm	338	215

BELT LENGTH DATA		
Measurement description	Driver	Passenger
Shoulder belt length as measured ATD	955	849
Lap belt length as measured on ATD	640	604
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	2462	752	-4830	25	1000
2	Lateral view of test vehicle	-65	-7011	-1263	35	1000
3	Left steering column view of test vehicle	-55	-7077	-1330	50	1000
4	Overall left view of test vehicle	-110	-6984	-1274	25	1000
5	Overhead closeup view of test vehicle	-381	63	-5279	35	1000
6	Overhead oblique view of test vehicle	14	3005	-2613	25	1000
7	Overhead overall view of test vehicle	-435	68	-5268	12.5	1000
8	Windshield view of test vehicle	2441	1892	-4905	50	1000
9	Test vehicle onboard driver oblique view	-2253	21	-698	12.5	1000
10	Test vehicle onboard driver side view	-2158	722	-459	12.5	1000
11	Test vehicle onboard foot view	-1908	-139	284	10	1000
12	Test vehicle onboard passenger side view	-3114	679	-473	12.5	1000
13	Real-time film coverage of test	-	-	-	-	-

Origin

X

Y

Z

Impact Point

Impact Point

Impact Point

Orientation

X

Y

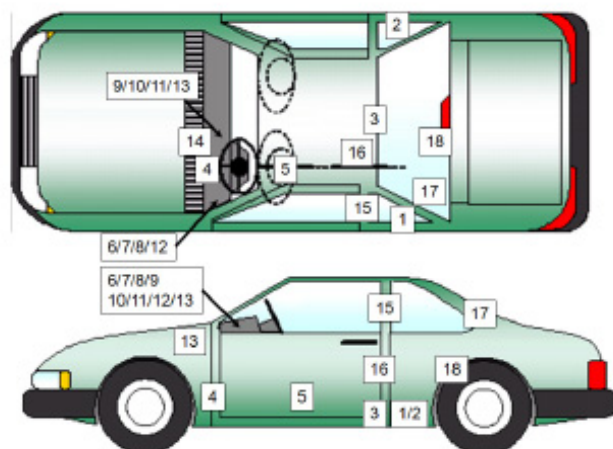
Z

+(X) Forward

+(Y) Right

+(Z) Down

DATA SHEET NO. 7
VEHICLE INSTRUMENTATION LOCATIONS

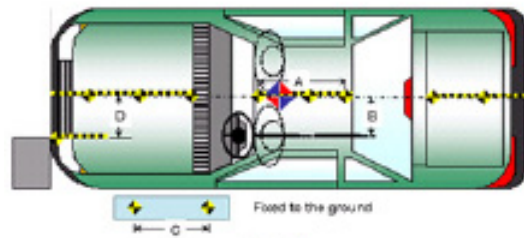


VEHICLE INSTRUMENTATION DATA						
Loc. no.	Accelerometer location		Positive direction		Negative direction	
			Max	Time (ms)	Max	Time (ms)
1	Left rear seat cross member (G's)	X	2724.6	123.0	-2678.3	211.1
		Y	1199.9	128.4	-867.4	546.9
		Z	2034.4	123.0	-1407.7	145.9
2	Right rear seat cross member (G's)	X	2052.8*	135.5	-2815.4*	142.2
		Y	248.5*	120.4	-2718.0*	140.3
		Z	93.5*	114.6	-2798.1*	123.1
3	Vehicle CG (G's)	X	4.48	134.3	-30.5	101.3
		Y	17.1	64.0	-12.1	77.6
		Z	13.6	150.6	-14.0	125.7
4	Behind brake pedal (G's)	X	68.4	88.7	-86.6	76.8
		Y	57.3	85.1	-26.3	76.2
		Z	61.0	88.1	-90.8	84.3
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				

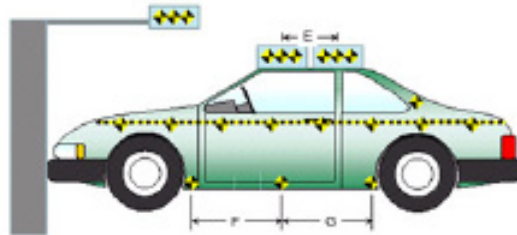
DATA SHEET NO. 7
VEHICLE INSTRUMENTATION LOCATIONS (CONTINUED)

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)		4681.6	109.6	-29.6	575.8
16	Driver lap belt (N)					
17	Passenger shoulder belt (N)		6628.7	118.4	-34.7	306.6
18	Passenger lap belt (N)					

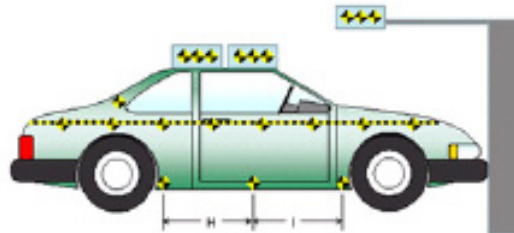
DATA SHEET NO. 8
VEHICLE PHOTOGRAPHIC REFERENCE TARGET LOCATIONS



Top View



Left Side View



Right Side View

VEHICLE PHOTOGRAPHIC REFERENCE TARGET LOCATIONS	
Item	Value
A	697
B	340
C	
D	
E	2079
F	1321
G	1143
H	1018
I	758

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	To steering wheel airbag and driver's side window	Chin to sternum and back/right side of head to seat back	A-51/A-53
Upper torso contact	To interior door panel	To interior door panel on rebound	A-40/A-53
Lower torso contact	To interior door panel	To interior door panel on rebound	A-40/A-53
Left knee contact	To knee bolster, steering column, and interior door panel	To seat back	A-45/A-63
Right knee contact	To knee bolster and steering column	To seat back	A-44/A-63

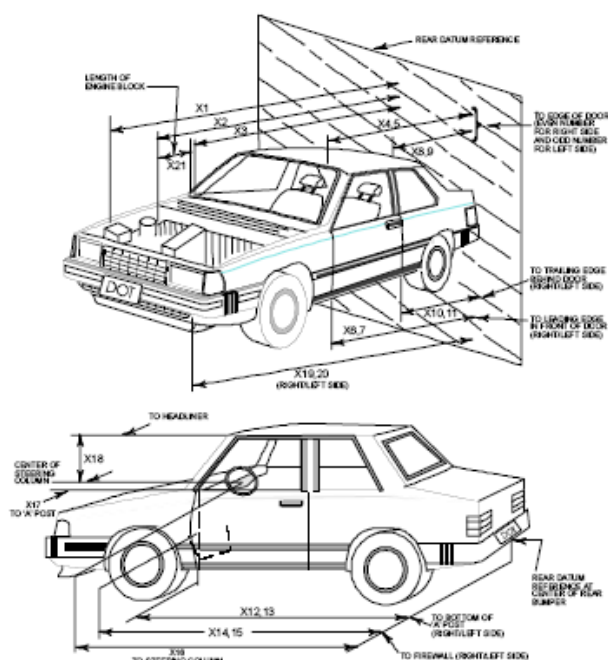
DOOR OPENING AND SEAT TRACK INFORMATION		
Description	Driver	Passenger
Locked/unlocked doors	Unlocked	Unlocked
Front door opening	Closed/locked/operable	Closed/locked/operable
Rear door opening	Closed/locked/operable	Closed/locked/operable
Seat track shift (mm)	None	None
Seat back failure	None	None
Glazing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

POST TEST STRUCTURAL OBSERVATIONS		
Critical areas of performance	Observations/conclusions	Picture ref.
Windshield damage	Cracked along bottom extending upward to roof line	A-34
Window damage	None noted	A-36/A-54
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	Yes – side header	Disabled	Yes	Disabled
Knee airbag	No	N/a	No	N/a
Seat belt pretensioner	Yes	Deployed	No	N/a
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	4505	4392	113
2	Rear surface of vehicle to front of engine	4058	4058	0
3	Rear surface of vehicle to firewall	3380	3380	0
4	Rear surface of vehicle to upper leading edge of right door	3125	3140	-15
5	Rear surface of vehicle to upper leading edge of left door	3125	3090	35
6	Rear surface of vehicle to lower leading edge of right door	3120	3120	0
7	Rear surface of vehicle to lower leading edge of left door	3120	3120	0
8	Rear surface of vehicle to upper trailing edge of right door	2005	2005	0
9	Rear surface of vehicle to upper trailing edge of left door	2005	1980	25
10	Rear surface of vehicle to lower trailing edge of right door	2030	2030	0
11	Rear surface of vehicle to lower trailing edge of left door	2030	2030	0

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	3125	3125	0
13	Rear surface of vehicle to bottom of "A" post of left side	3125	3095	30
14	Rear surface of vehicle to firewall, right side	3380	3380	0
15	Rear surface of vehicle to firewall, left side	3380	3010	370
16	Rear surface of vehicle to steering column	2682	2655	27
17	Center of steering column to "A" post	443	440	-3
18	Center of steering column to headliner	426	385	41
19	Rear surface of vehicle to right side of front bumper	4285	4285	0
20	Rear surface of vehicle to left side of front bumper	4285	**	**
21	Length of engine block	200	200	0
RD	Rear surface of vehicle to right side of dash panel	2790	2790	0
CD	Rear surface of vehicle to center of dash panel	2790	2790	0
LD	Rear surface of vehicle to left side of dash panel	2790	2722	68

** Bumper disengaged from vehicle on impact

DATA SHEET NO. 12
ACCIDENT INVESTIGATION DIVISION DATA

VEHICLE INFORMATION

VIN: 1HGFA16549L016425

Vehicle size category: 4-door sedan

Wheelbase (mm): 2713

Test weight (kg): 1446.0

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): _____

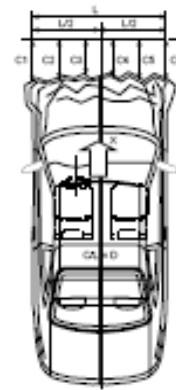
CRUSH PROFILE

Collision Deformation Classification: 11FLEE5

Midpoint of damage: 732

Damage region length: 1464

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	481	*	*
C2	Crush zone 2 at left side	mm	349	449	100
C3	Crush zone 3 at left side	mm	237	320	83
C4	Crush zone 1 at right side	mm	235	305	70
C5	Crush zone 2 at right side	mm	341	410	69
C6	Crush zone 3 at right side	mm	475	623	148
L	C1 to C6	mm	1750	1464	-286

* Damaged in testing, measurement unable to be taken

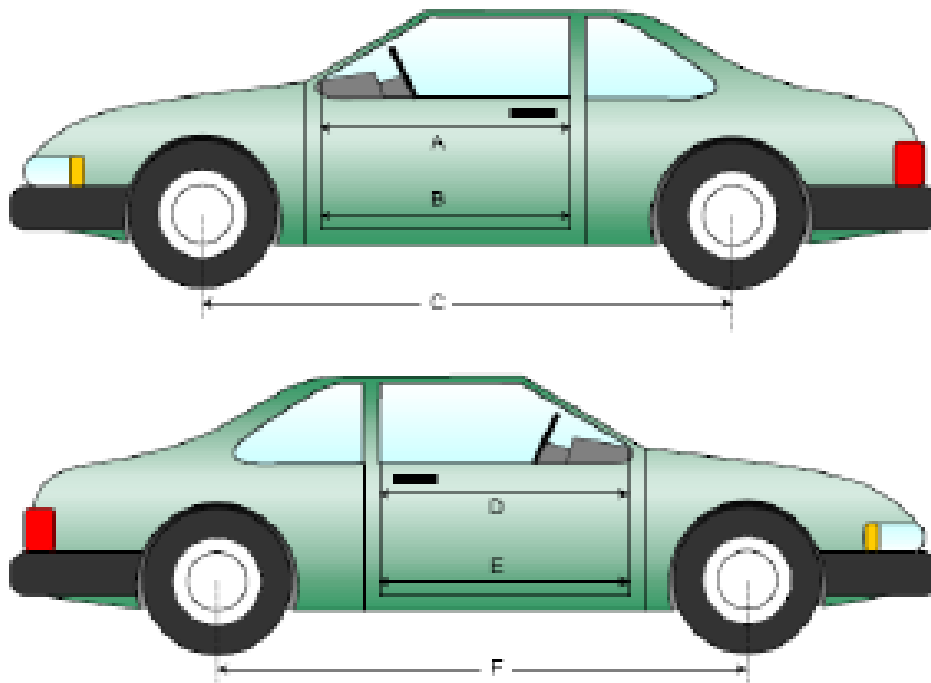
DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS

DOOR OPENING WIDTH					
Item	Description	Units	Pre-test	Post-test	Difference
A	Left side upper	mm	1120*	1110	10
B	Left side lower	mm	1090*	1090	0
D	Right side upper	mm	1120*	1135	-15
E	Right side lower	mm	1090*	1090	0

WHEELBASE MEASUREMENTS					
Item	Description	Units	Pre-test	Post-test	Difference
C	Left side wheelbase	mm	2713	**	**
F	Right side wheelbase	mm	2713	2721	-8

* Points taken from data sheet 11

** Damaged in testing, measurement unable to be taken

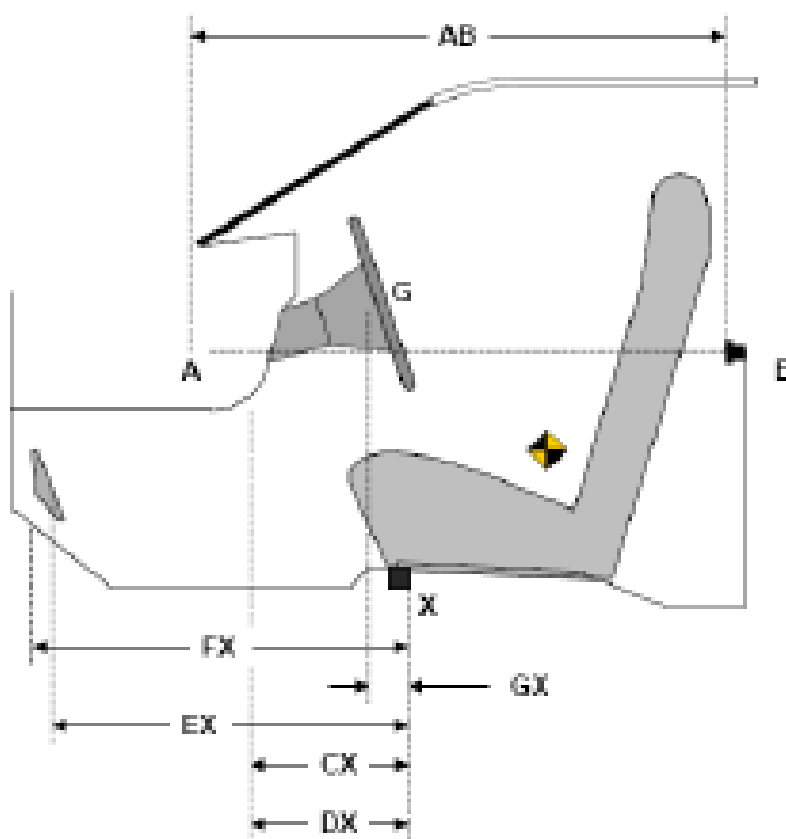


DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

DRIVER COMPARTMENT INTRUSION					
Item	Description	Units	Pre-test	Post-test	Difference
AB	Door opening (inside window jam)	mm	1771	1713	58
CX	Left knee bolster to X	mm	*	*	*
DX	Right knee bolster to X	mm	*	*	*
EX	Brake pedal to X	mm	663	546	117
FX	Foot rest to X	mm	642	624	18
GX	Center of steering column wheel hub to X	mm	195	137	58

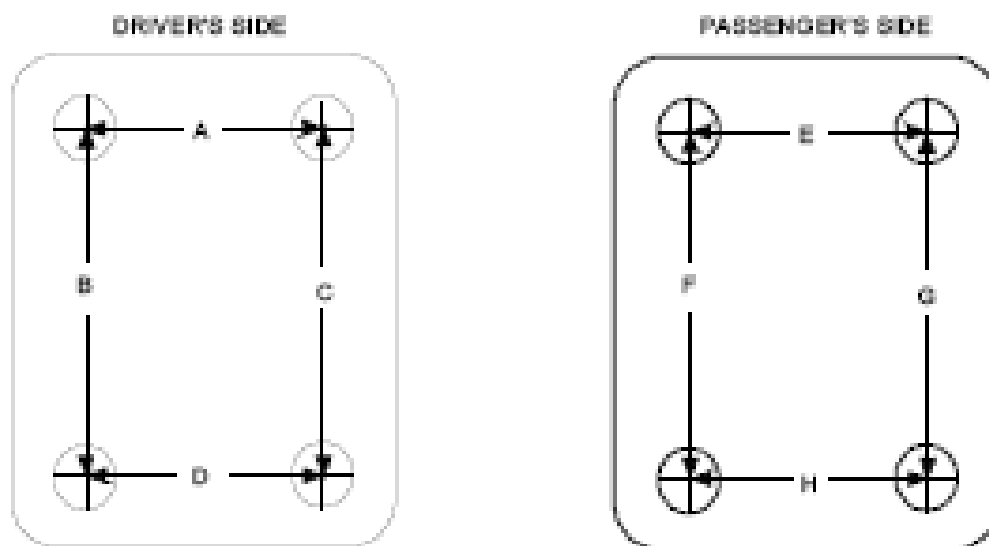
X = Front of seat track (stationary)

* Point not taken as part of original test procedure



DRIVER COMPARTMENT

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)



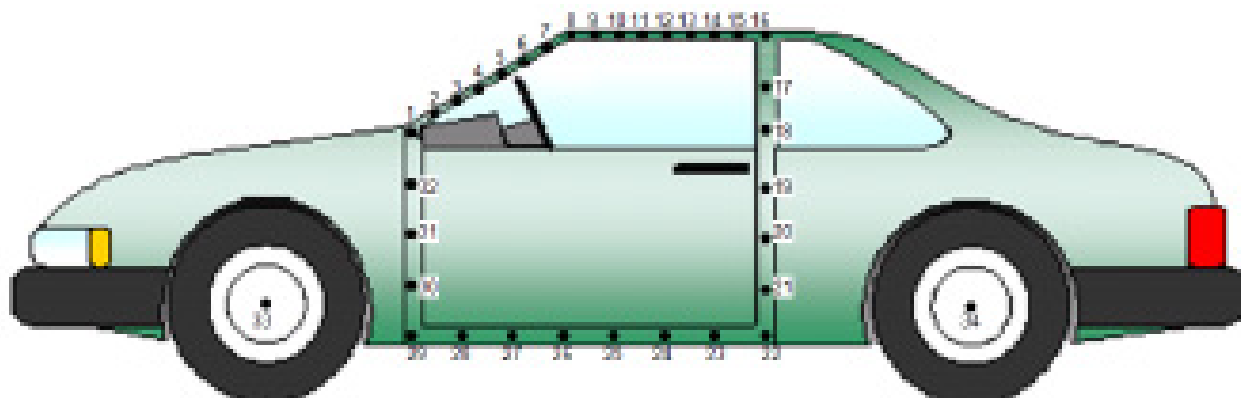
TOP VIEW THROUGH FLOOR PAN

FLOORBOARD DEFORMATION			
Measurement	PRE-TEST	POST-TEST	DIFFERENCE
A	353.2	363.6	10.4
B	316.1	315.3	0.9
C	312.8	321.2	8.4
D	355.8	352.3	3.5
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

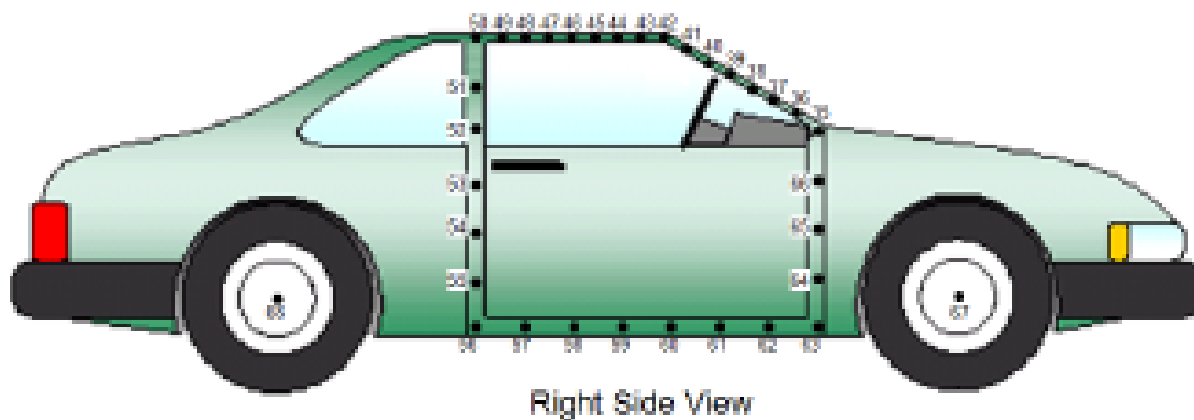
LEFT SIDE DOOR FRAME MEASUREMENTS									
Pt.	Pre-test (mm)			Post-test (mm)			Difference (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
1	3125.6	-795.9	-288.1	3123.7	-785.0	-282.7	-1.9	-10.9	-5.4
2									
3									
4									
5									
6									
7	2933.8	-722.1	-514.1	2936.6	-712.2	-513.5	3	-9.9	-0.6
8									
9									
10									
11									
12									
13									
14									
15									
16	1915.3	-628.5	-739.1	1916.1	-647.2	-746.1	0.8	18.7	7.0
17									
18									
19	2002.8	-791.8	-349.0	2005.7	-799.5	-351.1	2.9	7.7	2.1

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	2034.7	-838.4	302.9	2028.5	-830.7	305.0	-6.2	-7.7	-2.1
23									
24									
25									
26									
27									
28									
29	3115.5	-835.2	304.9	3107.0	-830.2	312.6	-8.5	-5.0	-7.7
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)



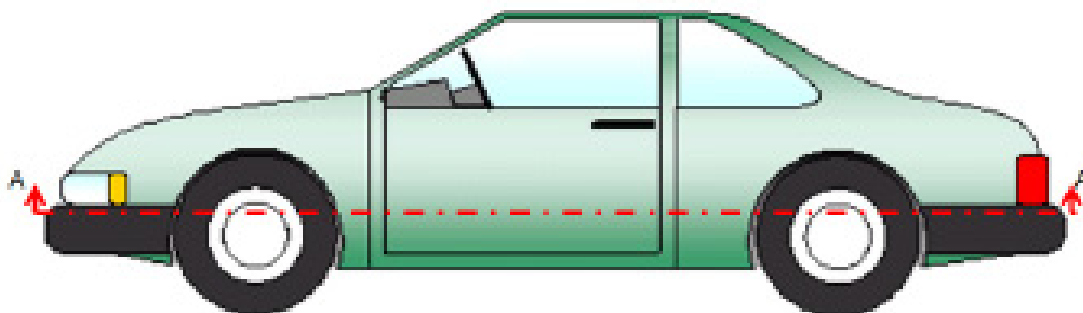
RIGHT SIDE DOOR FRAME MEASUREMENTS									
Pt.	Pre-test (mm)			Post-test (mm)			Difference (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									

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)

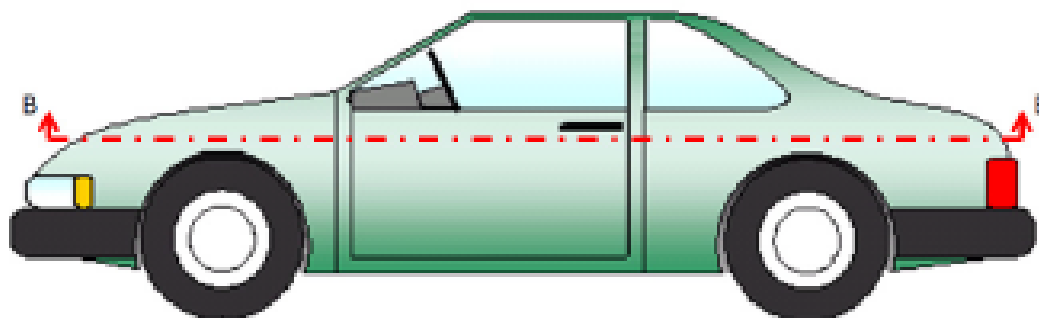


SECTION A - A							
Pt.	Pre-test			Pt.	Post-test		
	X	Y	Z		X	Y	Z
1				1	-13.4	85.6	
2				2	-14.0	-62.3	
3				3	-5.45	-201.3	
4				4	12.1	-350.6	
5				5	36.3	-481.6	
6				6	69.2	-609.2	
7				7	166.5	-760.9	
8				8	289.3	-799.8	
9				9	438.8	-825.8	
10				10	594.9	-849.8	
11				11	1263.5	-860.7	
12				12	1401.1	-861.7	
13				13	1543.1	-862.2	
14				14	1682.8	-863.3	
15				15	1813.4	-863.7	
16				16	1951.0	-864.1	
17				17	2050.1	-953.2	
18				18	2176.0	-941.1	
19				19	2305.3	-935.6	
20				20	2429.0	-929.3	
21				21	2564.2	-919.8	
22				22	2698.9	-910.1	
23				23	2833.9	-900.7	
24				24	2961.9	-891.2	
25				25	3132.5	-878.3	
26				26	3218.5	-893.2	
27				27	3611.2	-468.7	
28				28	3697.9	-481.0	

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	3797.1	-484.0	
30				30	3984.3	-532.2	
31				31	4078.7	-513.5	
32				32	4214.5	-479.6	
33				33	4286.8	-314.9	
34				34	4300.3	-184.0	
35				35	4313.1	-62.5	
36				36	4326.2	74.4	

DATA SHEET NO. 13
VEHICLE INTRUSION MEASUREMENTS (CONTINUED)

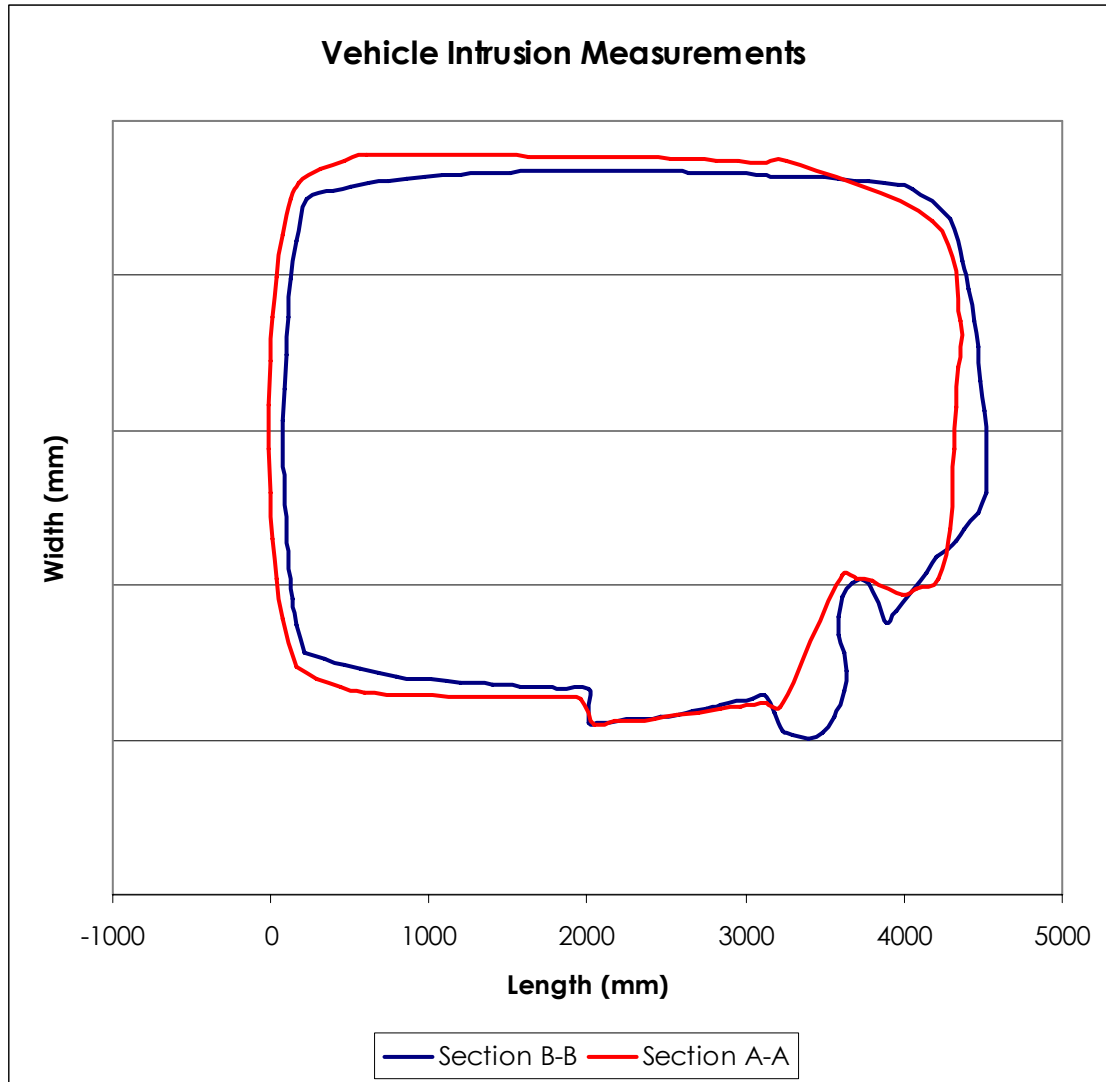


SECTION B - B							
Pt.	Pre-test			Pt.	Post-test		
	X	Y	Z		X	Y	Z
1				1	82.8	135.6	
2				2	79.0	31.3	
3				3	79.5	-74.7	
4				4	84.8	-168.5	
5				5	99.3	-312.5	
6				6	109.6	-417.0	
7				7	134.3	-544.8	
8				8	161.6	-630.6	
9				9	214.6	-716.7	
10				10	341.4	-739.6	
11				11	467.6	-759.4	
12				12	572.5	-770.8	
13				13	675.8	-782.6	
14				14	790.5	-792.7	
15				15	915.8	-800.8	
16				16	1010.1	-805.4	
17				17	1113.7	-810.2	
18				18	1196.8	-816.3	
19				19	1296.2	-818.2	
20				20	1394.1	-821.6	
21				21	1481.5	-824.4	
22				22	1574.3	-827.0	
23				23	1662.4	-829.0	
24				24	1746.4	-830.3	
25				25	1833.2	-832.4	
26				26	2011.3	-835.1	
27				27	2008.2	-946.1	
28				28	2084.4	-943.3	

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	2193.1	-937.8	
30				30	2283.0	-933.0	
31				31	2371.3	-928.5	
32				32	24634.0	-922.7	
33				33	2570.1	-915.4	
34				34	2663.2	-906.6	
35				35	2752.3	-898.7	
36				36	2843.6	-889.4	
37				37	3039.8	-866.4	
38				38	3123.6	-855.4	
39				39	3174.9	-911.2	
40				40	3226.4	-967.3	
41				41	3301.0	-983.2	
42				42	3398.3	-997.2	
43				43	3488.0	-976.5	
44				44	3554.2	-924.5	
45				45	3625.1	-843.0	
46				46	3636.0	-775.9	
47				47	3618.1	-720.5	
48				48	3590.6	-658.5	
49				49	3587.2	-602.2	
50				50	3611.9	-538.5	
51				51	3670.2	-495.2	
52				52	3777.9	-495.1	
53				53	3892.0	-621.7	
54				54	3951.1	-582.9	
55				55	4143.1	-458.0	
56				56	4207.6	-408.9	
57				57	4275.4	-383.8	
58				58	4334.8	-358.7	
59				59	4386.1	-320.0	
60				60	4473.6	-267.6	
61				61	4518.3	-203.5	
62				62	4525.7	-122.1	
63				63	4518.4	-37.2	
64				64	4506.0	64.5	
65				65	4487.7	162.7	
66				66	4464.1	268.6	

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	*	4386.7	4438.4	4439.3	4390.7	*
	Y	*	-445.3	-150.1	146.6	445.2	*
	Z	*	184.9	180.4	176.7	171.5	*
Top of Front Bumper	X	*	4385.6	4438.1	4439.6	4389.9	*
	Y	*	-448.4	-149.3	146.0	444.9	*
	Z	*	97.0	93.5	89.4	84.8	*
Upper Radiator Support	X	*	4187.3	4175.8	4176.4	4187.8	*
	Y	*	-448.9	-147.8	149.1	446.0	*
	Z	*	-125.6	-131.1	-135.5	-137.1	*

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	*	**	**	**	**	*
	Y	*	**	**	**	**	*
	Z	*	**	**	**	**	*
Top of Front Bumper	X	*	**	**	**	**	*
	Y	*	**	**	**	**	*
	Z	*	**	**	**	**	*
Upper Radiator Support	X	*	***	***	***	***	*
	Y	*	***	***	***	***	*
	Z	*	***	***	***	***	*

* Points not taken due to width of vehicle

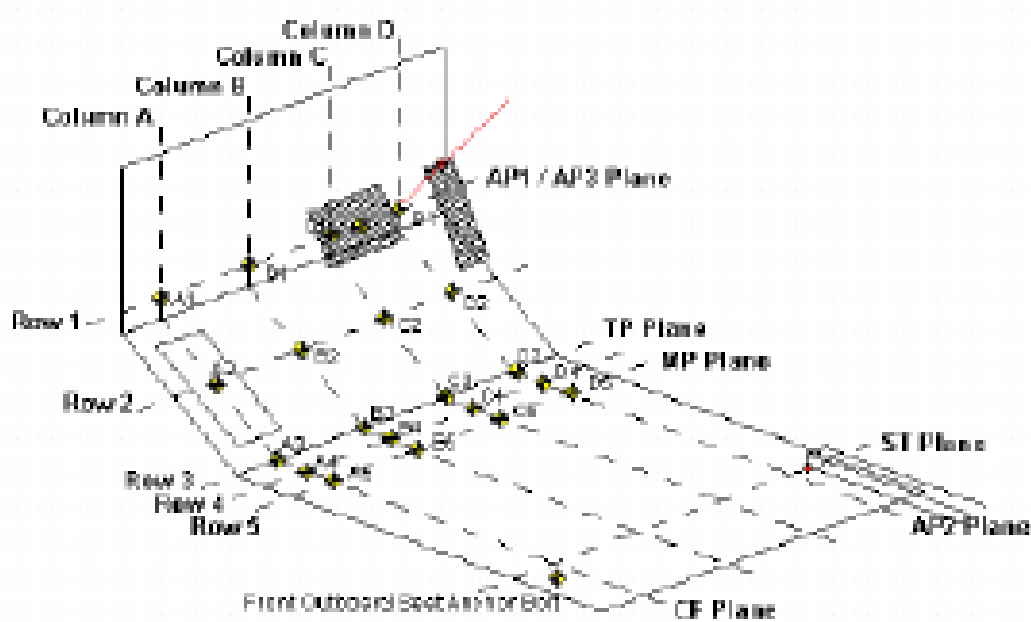
** Bumper became disengaged from vehicle at impact

*** 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	*	**	**	**	**	*
	Y	*	**	**	**	**	*
	Z	*	**	**	**	**	*
Top of Front Bumper	X	*	**	**	**	**	*
	Y	*	**	**	**	**	*
	Z	*	**	**	**	**	*
Upper Radiator Support	X	*	***	***	***	***	*
	Y	*	***	***	***	***	*
	Z	*	***	***	***	***	*

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

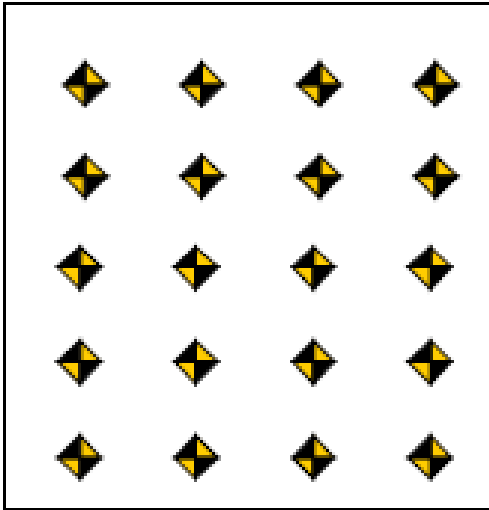
Row 2: evenly spaced between rows 1 and 3

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 through 3 are located on the toe kick portion of the floor
- Row 4 is located at the intersection of the toe kick and the level portions of the floor
- Rows 5 through 8 are located on the most level portion of the floor
- 26 points were measured

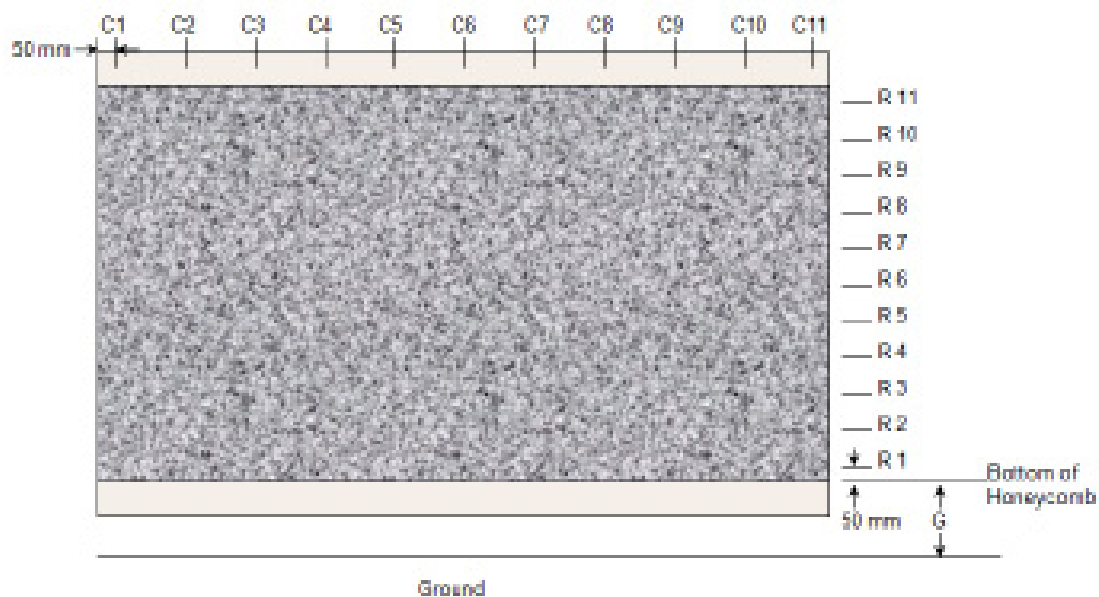
DRIVER SIDE TOE PAN AND FLOORBOARD MEASUREMENTS									
Location	PRE-TEST (mm)			POST-TEST (mm)			CHANGE (mm)		
	X	Y	Z	X	Y	Z	X	Y	Z
1	3234.9	-211.9	261.5	3246.6	-206.1	283.8	11.7	5.8	-22.3
2	3266.3	-322.3	285.1	3254.3	-320.3	289.8	-12.0	-2.0	-4.7
3	3269.5	-440.3	287.8	3240.5	-436.0	290.0	-29.0	-4.3	-2.2
4	3211.5	-205.6	309.6	3204.8	-218.2	320.5	-6.7	12.6	-10.9
5	3233.5	-323.9	318.9	3220.6	-321.2	319.3	-12.9	-2.7	-0.4
6	3229.6	-445.7	319.9	3201.7	-443.6	319.7	-27.9	-2.1	0.2
7	3180.2	-324.8	351.0	3181.6	-328.6	363.0	1.4	3.8	-12.0
8	3186.9	-446.2	350.0	3165.5	-437.6	356.3	-21.4	-8.6	-6.3
9	3109.3	-333.3	380.4	3100.3	-324.0	384.4	-9.0	-9.3	-4.0
10	3106.4	-449.5	384.0	3092.0	-435.6	384.9	-14.4	-13.9	-0.9
11	2999.6	-211.1	379.5	3004.8	-200.8	384.2	5.2	-10.3	-4.7
12	3001.0	-330.7	380.7	3002.5	-323.2	392.7	1.5	-7.5	-12.0
13	3000.7	-452.8	383.6	2996.4	-439.3	389.7	-4.3	-13.5	-6.1
14	3006.5	-565.0	390.7	3005.6	-564.4	379.3	-0.9	-0.6	11.4
15	2897.3	-212.9	378.5	2893.5	-208.0	381.5	-3.8	-4.9	-3.0
16	2899.0	-332.8	380.9	2897.5	-326.8	385.7	-1.5	-6.0	-4.8
17	2898.7	-451.8	381.9	2898.6	-444.6	387.1	-0.1	-7.2	-5.2
18	2897.6	-564.4	393.4	2899.3	-564.3	364.5	1.7	-0.1	28.9
19	2793.2	-211.3	378.5	2785.9	-201.9	380.3	-7.3	-9.4	-1.8

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	2795.5	-334.4	379.2	2793.7	-327.4	386.2	-1.8	-7.0	-7.0
21	2797.9	-450.2	381.6	2796.6	-443.3	385.6	-1.3	-7.0	-4.0
22	2795.4	-572.0	395.0	2796.3	-565.6	365.4	0.9	-6.4	29.6
23	2686.8	-211.3	365.0	2683.6	-208.4	362.2	-3.2	-2.9	2.8
24	2691.2	-334.0	376.8	2687.5	-330.6	383.3	-3.7	-3.4	-6.5
25	2693.9	-452.1	378.6	2692.3	-447.5	382.6	-1.6	-4.6	-4.0
26	2690.4	-567.1	392.4	2690.3	-560.7	378.3	0.1	-6.4	14.1
BP	3160.7	-336.0	160.4	3007.2	-309.0	199.9	-153.5	-27.0	-39.5
LB	3089.1	-500.1	40.1	2888.4	-517.6	-21.9	-200.7	17.5	62.0
RB	3086.3	-239.6	33.0	2890.7	-248.2	-21.6	-195.6	8.6	54.6
SW	2662.9	-354.6	-289.0	2607.1	-363.8	-337.8	-55.8	9.2	48.8

*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											

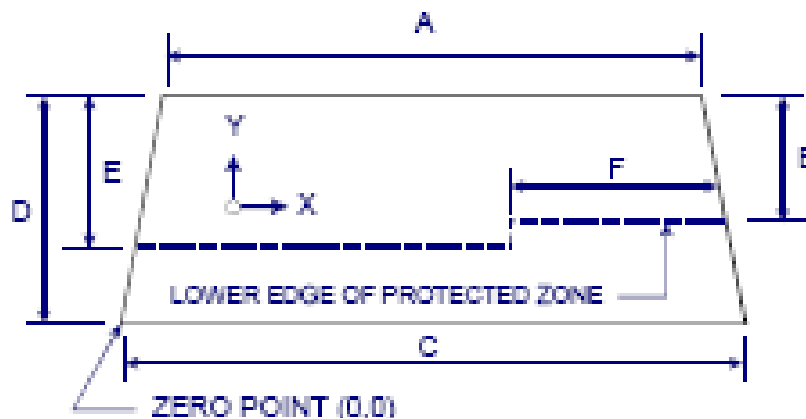
* No MDB was used in test

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	2139	2033	95.0
Right side	2139	2139	100
Total	4278	4186	97.8



WINDSHIELD MEASUREMENTS		
A	mm	1172
B	mm	486
C	mm	1363
D	mm	872
E	mm	632
F	mm	536

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)

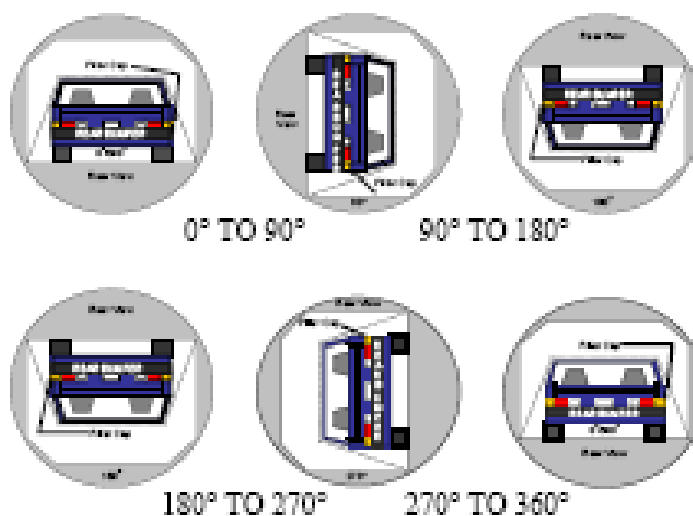
FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

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

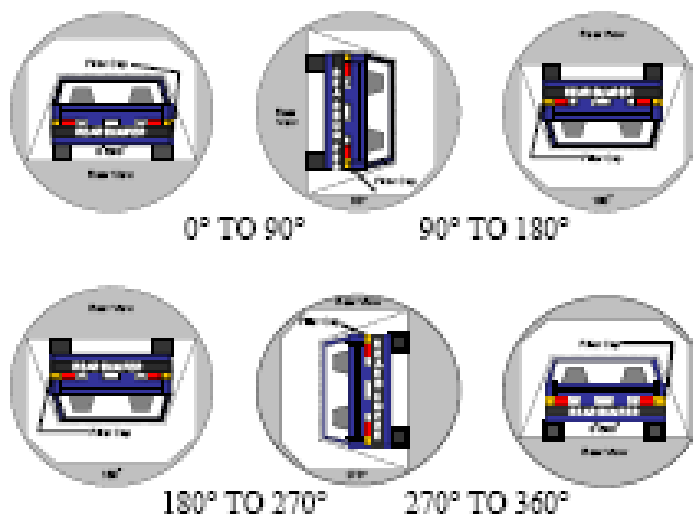


FMVSS301 SOLVENT COLLECTION TIME TABLE			
Test phase	Rotation time (sec.)	Hold time (sec.)	Total time (sec.)
Tolerance	60-180	>= 300	-
0° to 90°	65	330	395
90° to 180°	61	300	361
180° to 270°	65	300	365
270° to 360°	63	300	363

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):

1. Is the total spillage of propulsion battery electrolyte greater than 5.0 Liters?
 YES NO (fail)
2. 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

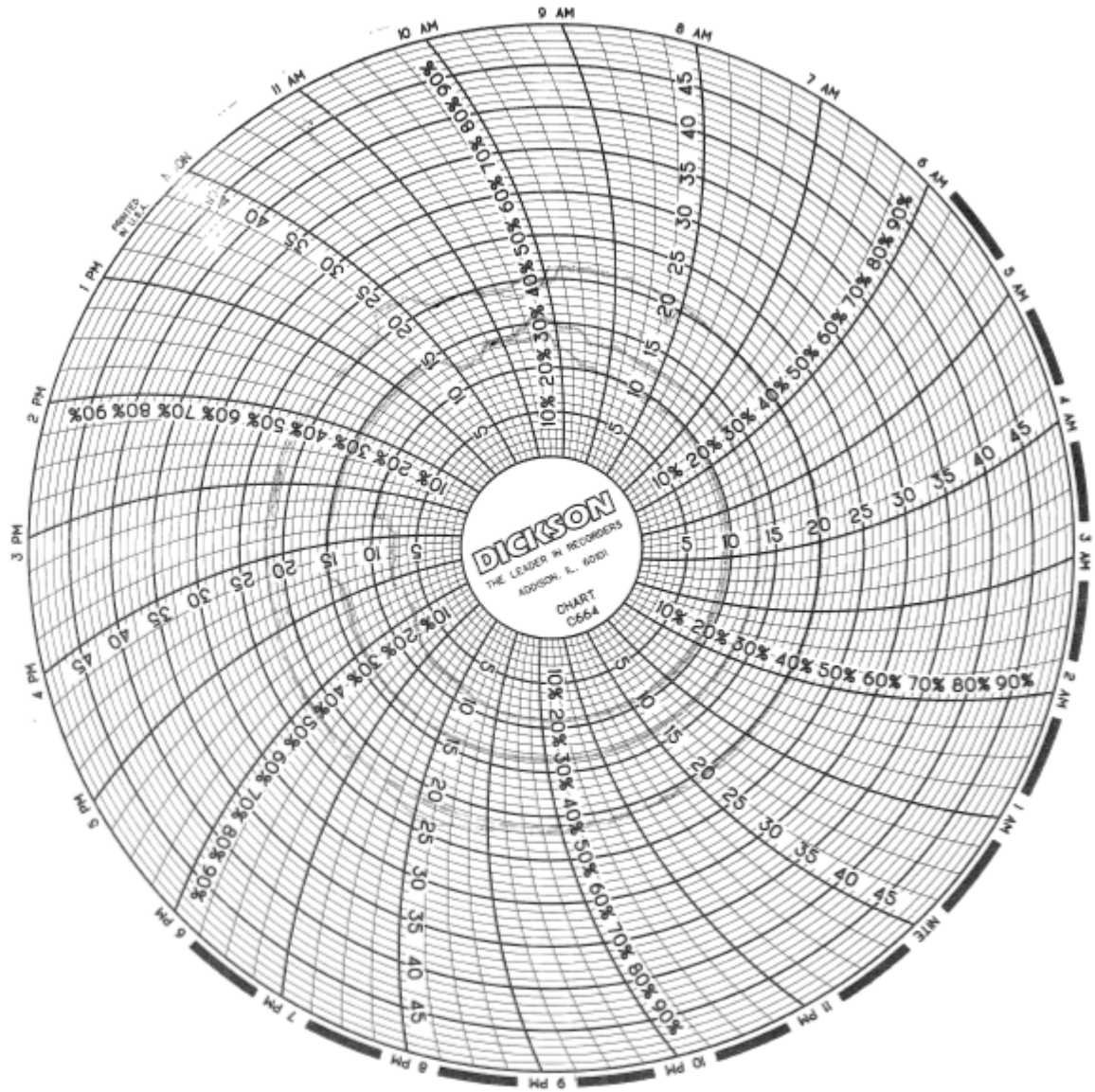
Ri/Vb = _____ Ω 90°	Time: _____ minutes _____ seconds
Ri/Vb = _____ Ω 180°	Time: _____ minutes _____ seconds
Ri/Vb = _____ Ω 270°	Time: _____ minutes _____ seconds
Ri/Vb = _____ Ω 360°	Time: _____ minutes _____ seconds

- 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 (MΩ): _____
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 ≥ 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: _____ M Ω
 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 = the lesser of R_{i1} and R_{i2}
 $R_i =$ _____ Ω Impact time: _____ minutes _____ s
 R_i/V_b = 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 $\geq 500 \Omega/V$?
 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

Figure	Photograph Description	Page
A-1	Left front $\frac{3}{4}$, as delivered	A-4
A-2	Right rear $\frac{3}{4}$, as delivered	A-4
A-3	Manufacturer's label	A-5
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A-6	Post test front view of test vehicle	A-6
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A-8	Post test left front $\frac{3}{4}$ view of test vehicle	A-7
A-9	Pre test left side view of test vehicle	A-8
A-10	Post test left side view of test vehicle	A-8
A-11	Pre test left rear $\frac{3}{4}$ view of test vehicle	A-9
A-12	Post test left rear $\frac{3}{4}$ view of test vehicle	A-9
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A-16	Post test right rear $\frac{3}{4}$ view of test vehicle	A-11
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A-19	Pre test right front $\frac{3}{4}$ view of test vehicle	A-13
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Figure A-1: Left front 3/4 view, as received



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

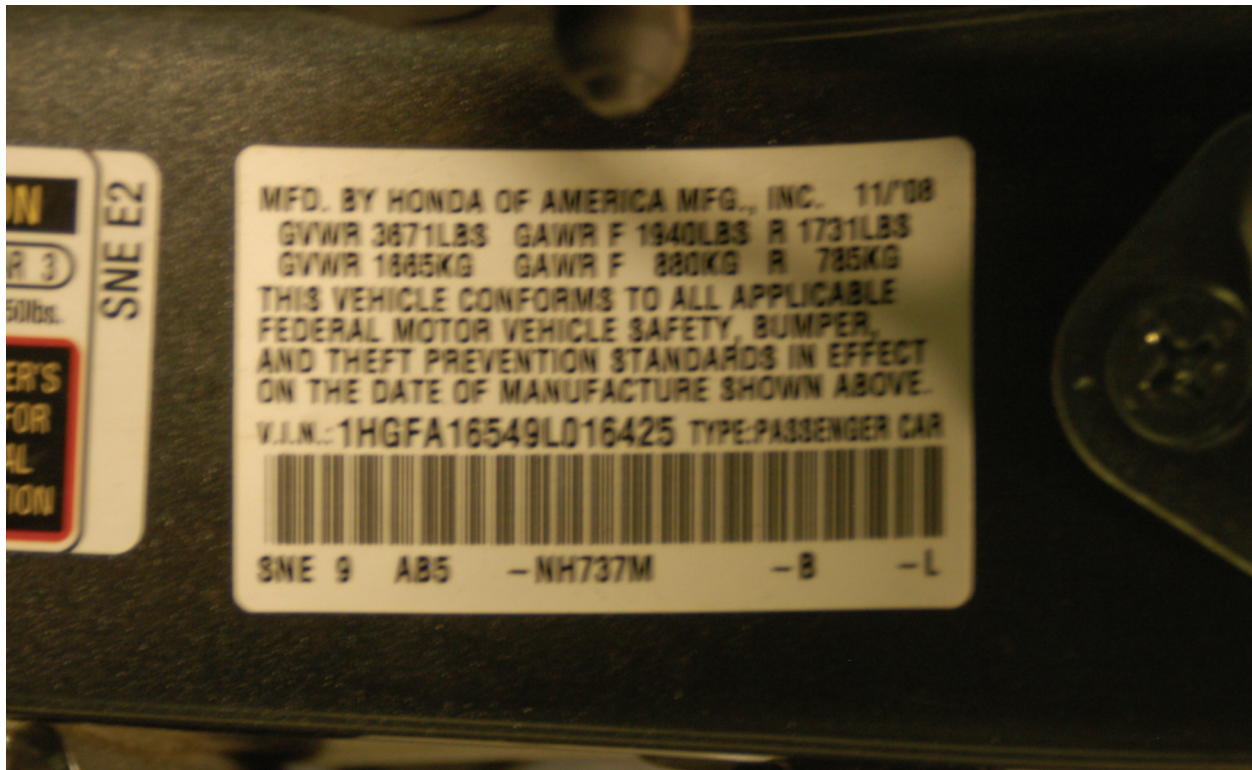


Figure A-3: Manufacturer's label



Figure A-4: 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 3/4 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

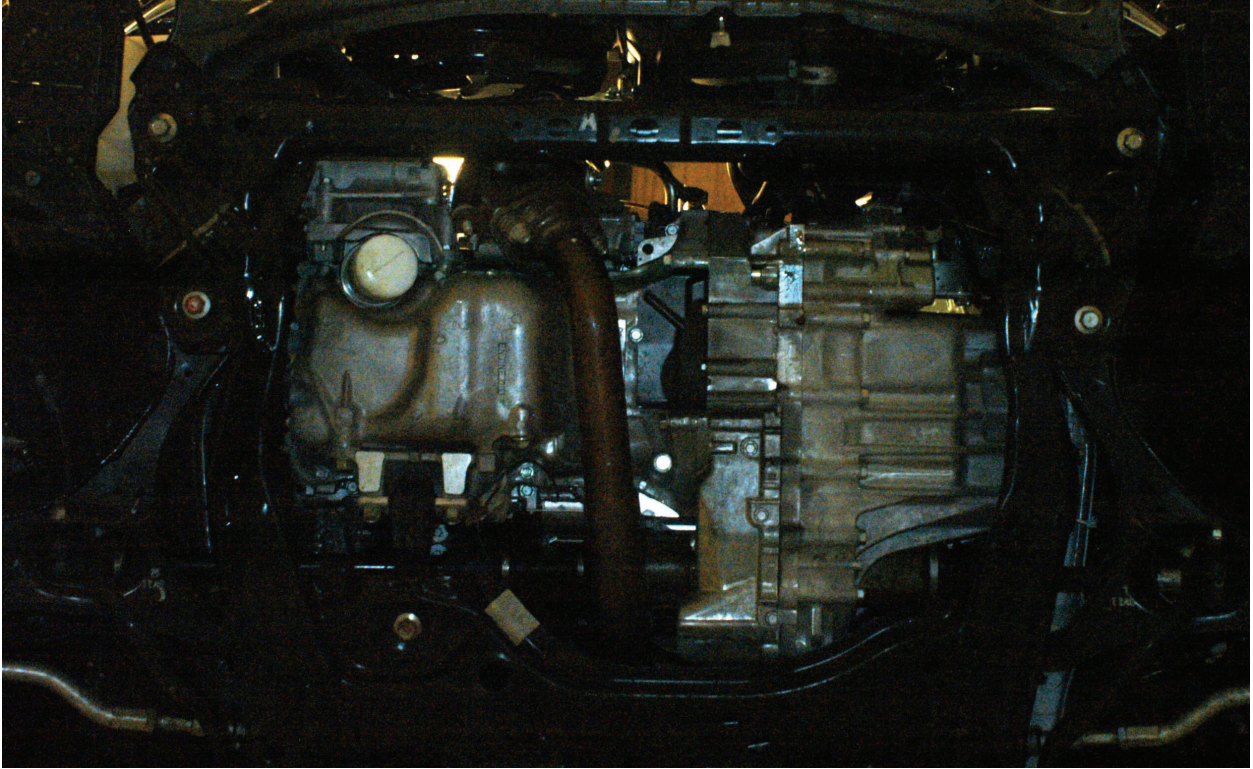


Figure A-25: Pre test engine compartment (underneath)



Figure A-26: Post test engine compartment

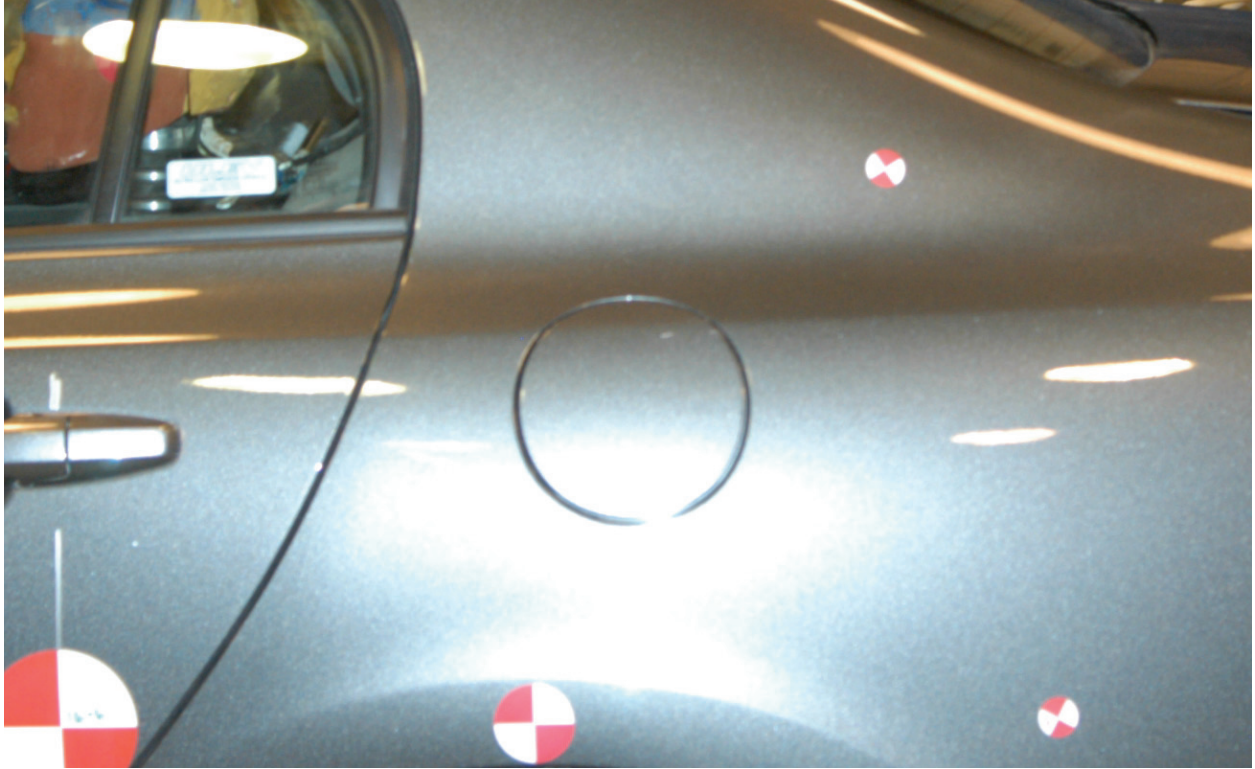


Figure A-27: Pre test fuel cap



Figure A-28: Post test fuel cap

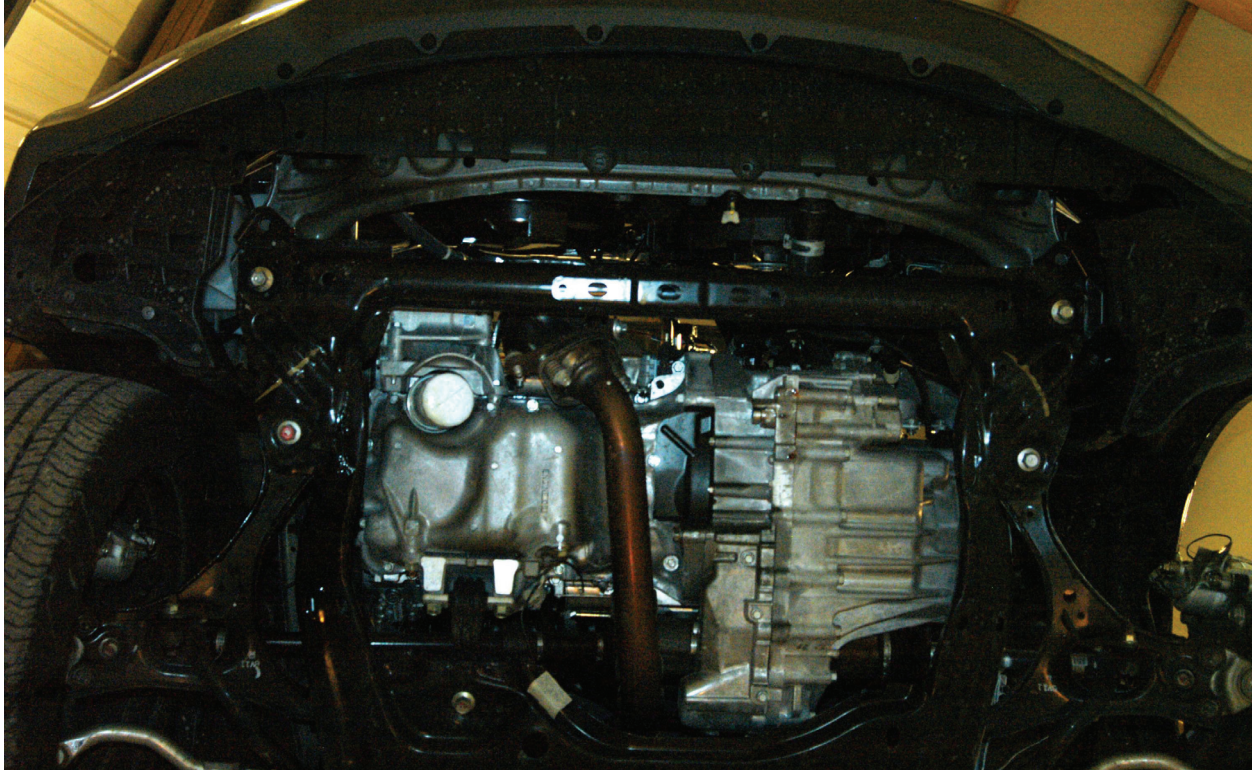


Figure A-29: Pre test front underbody



Figure A-30: Post test front underbody

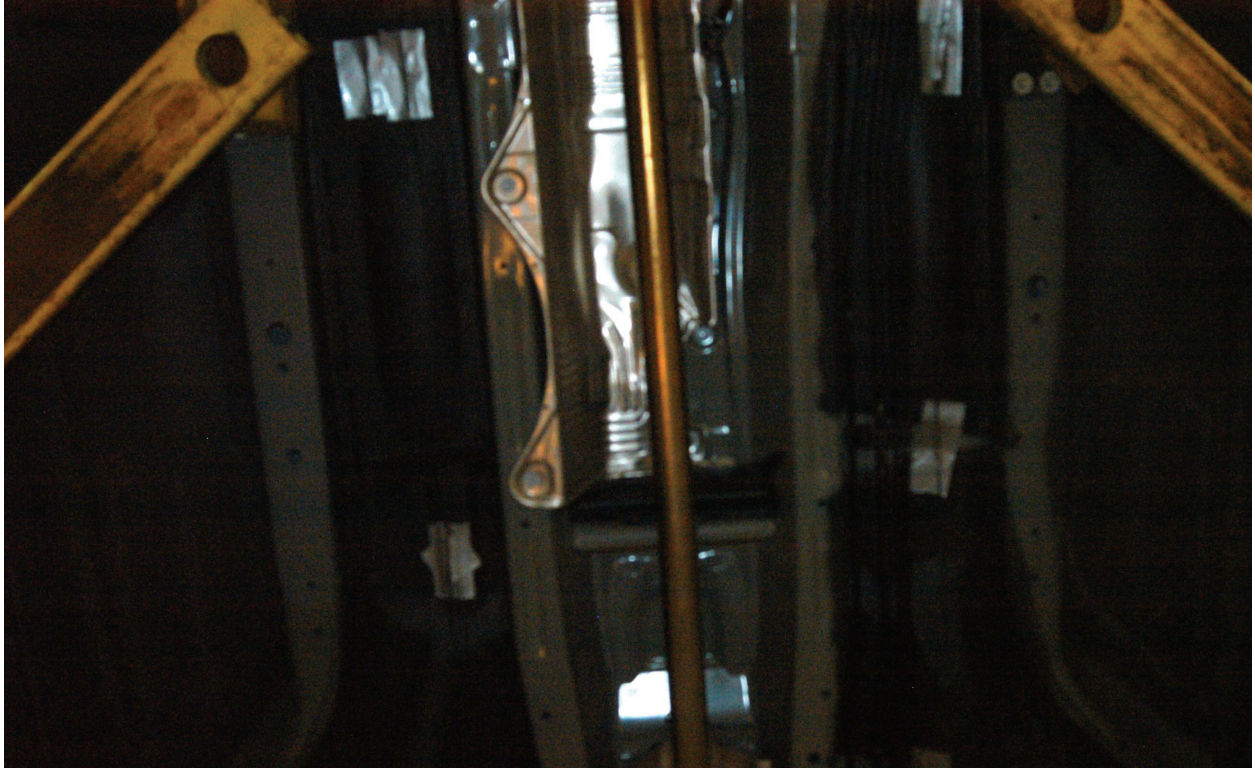


Figure A-31: Pre test mid-underbody

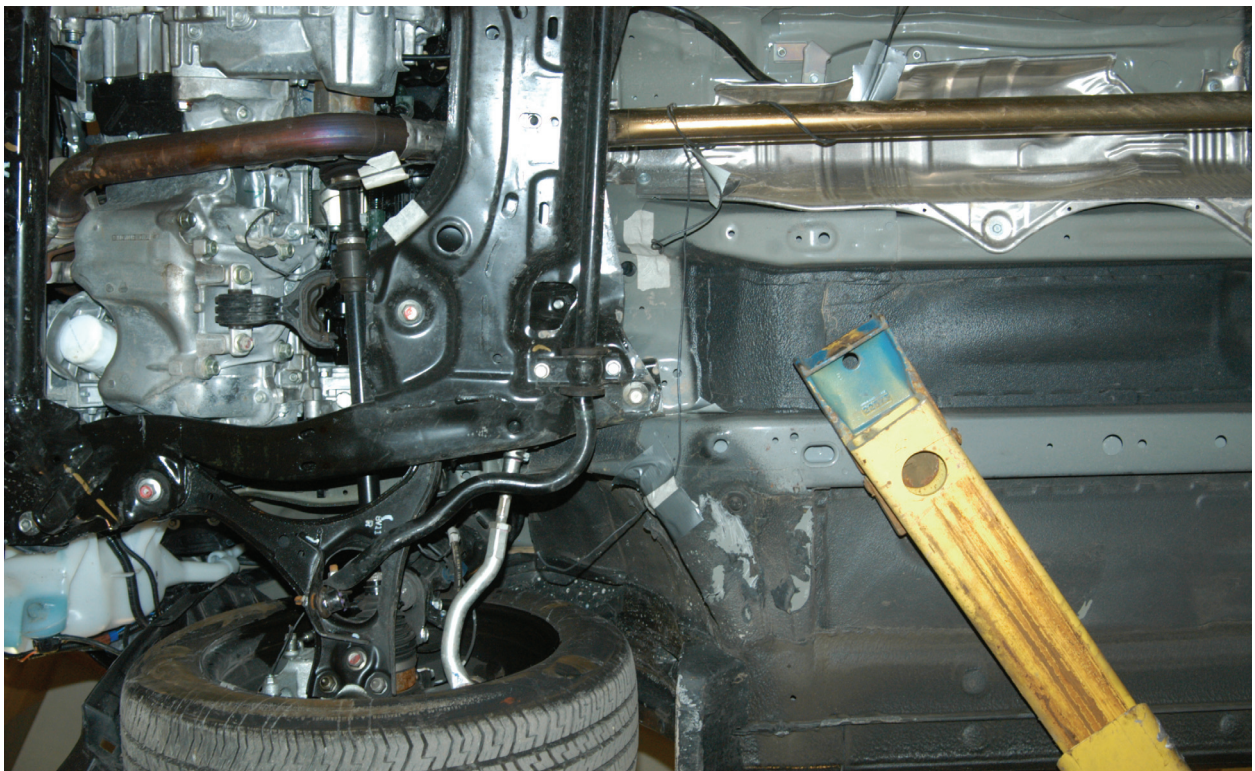


Figure A-32: Post test mid-underbody



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

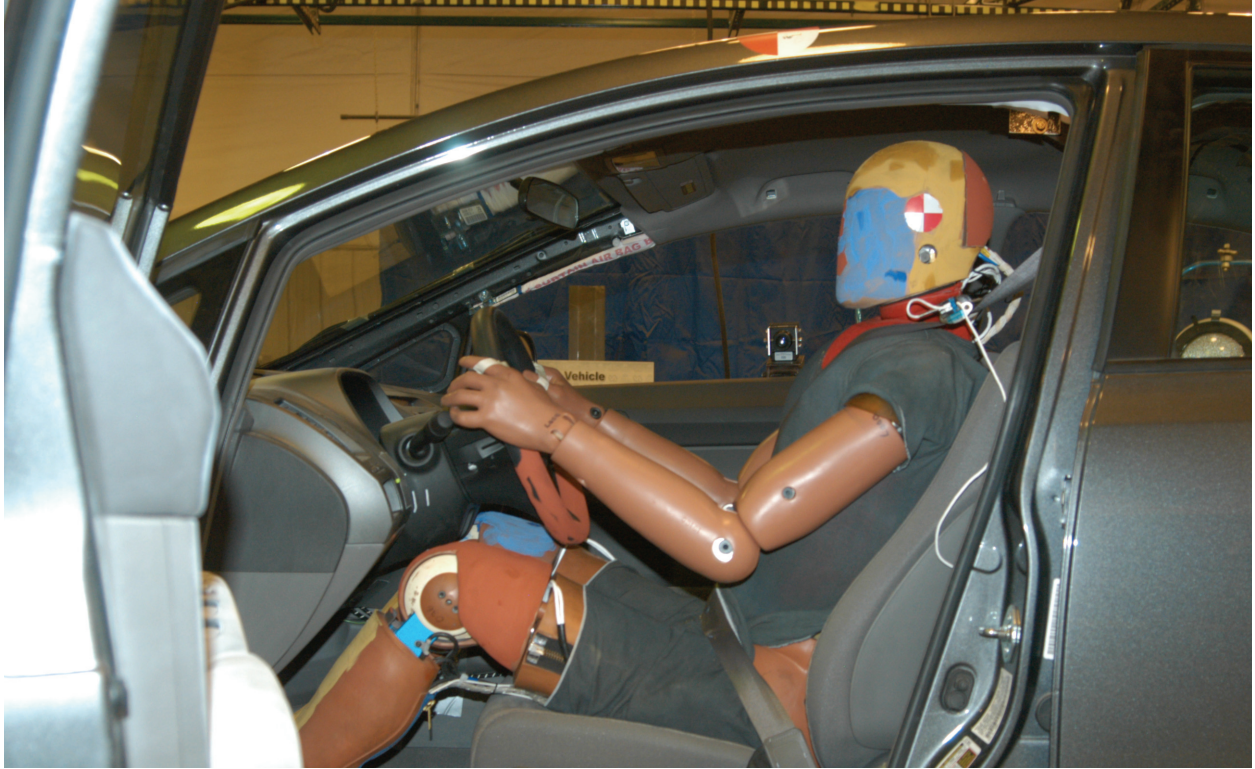


Figure A-37: Pre test driver (door open)



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

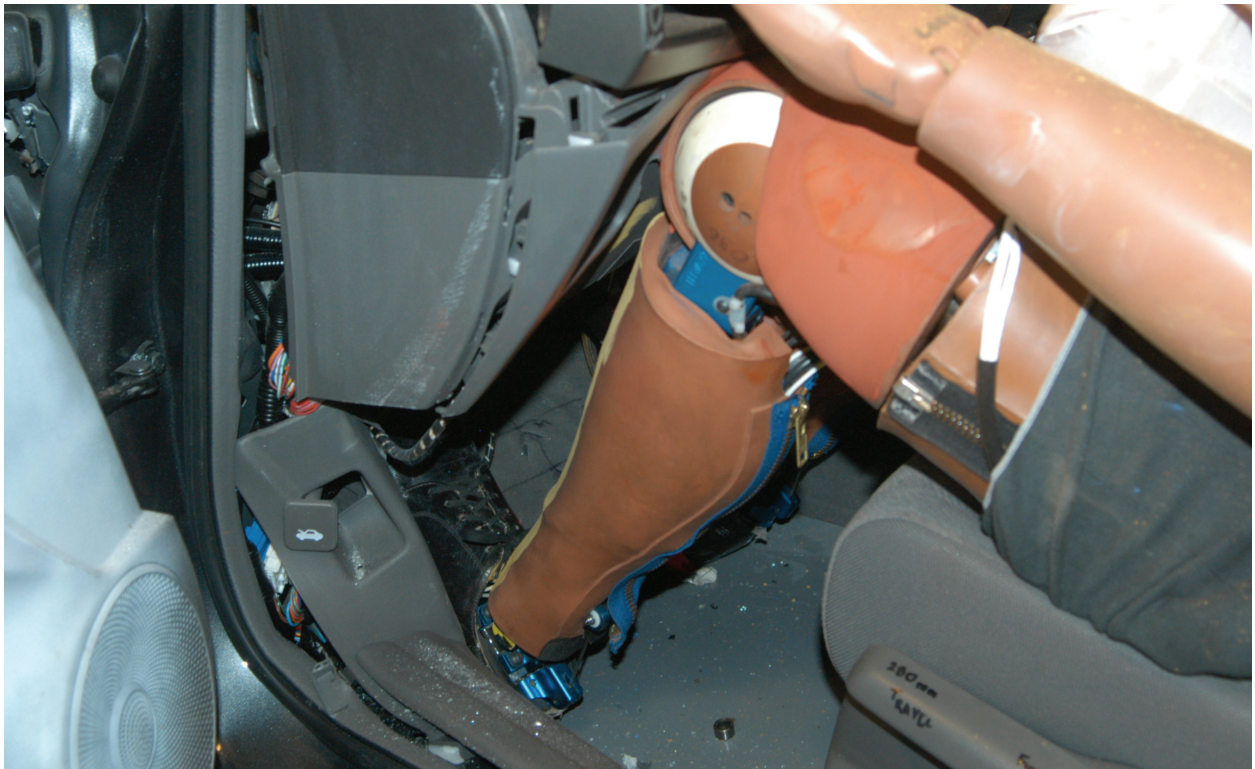


Figure A-44: Post test driver foot/leg close-up



Figure A-45: Pre test driver knee bolster



Figure A-46: Post test driver knee bolster

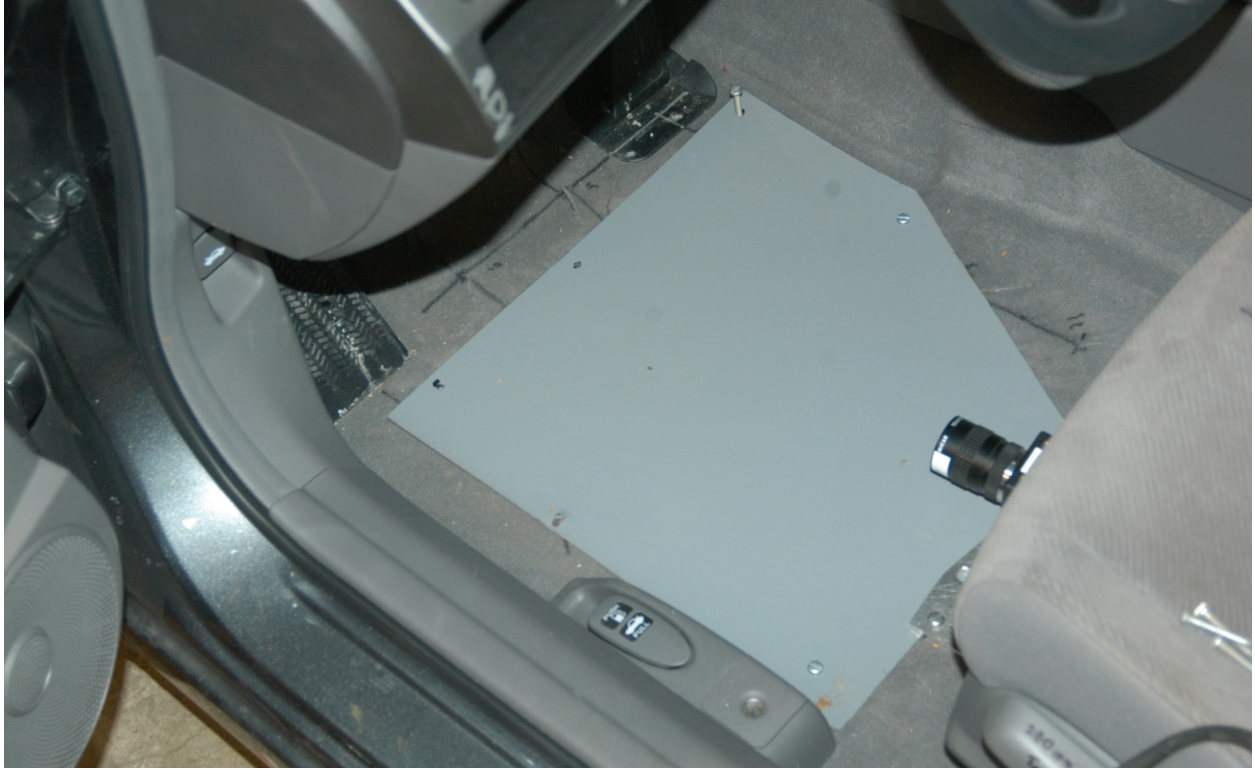


Figure A-47: Pre test driver floor-pan



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 left



Figure A-53: Post test passenger left



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

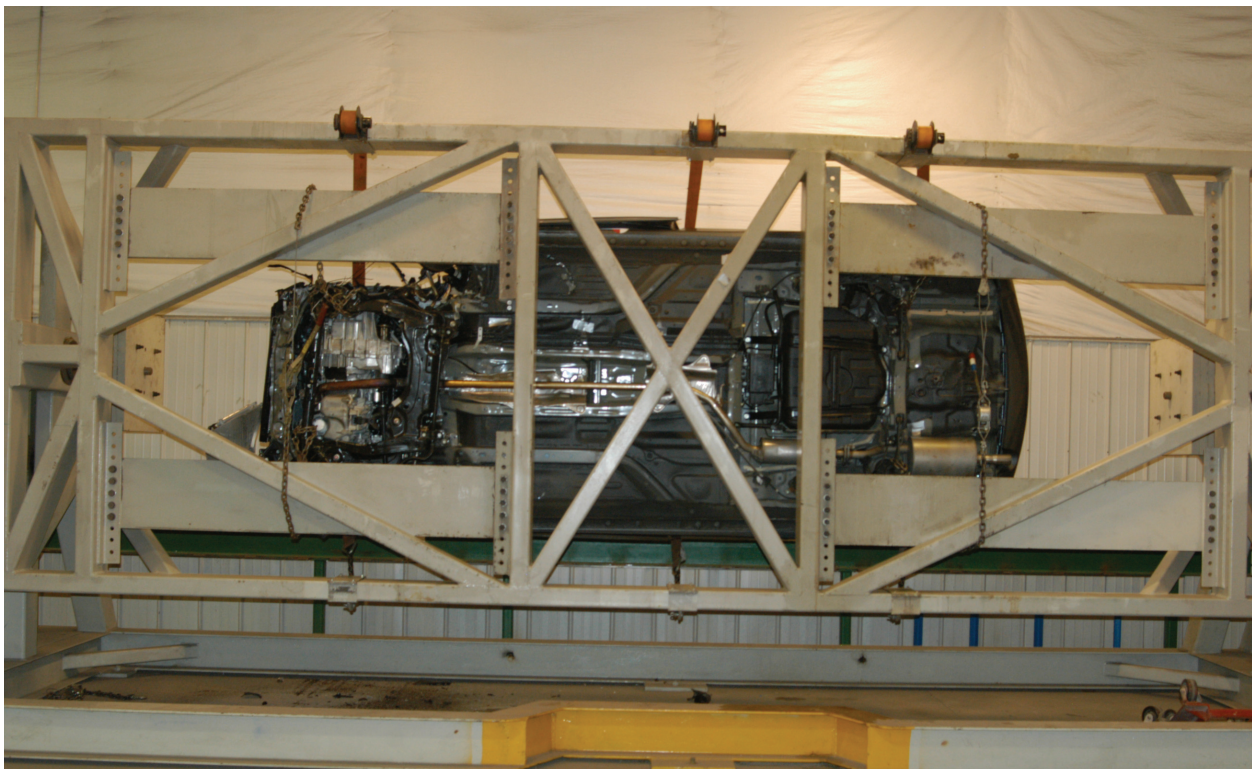


Figure A-68: FMVSS301 270 degrees



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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175	Foot rest acceleration XG	B-180
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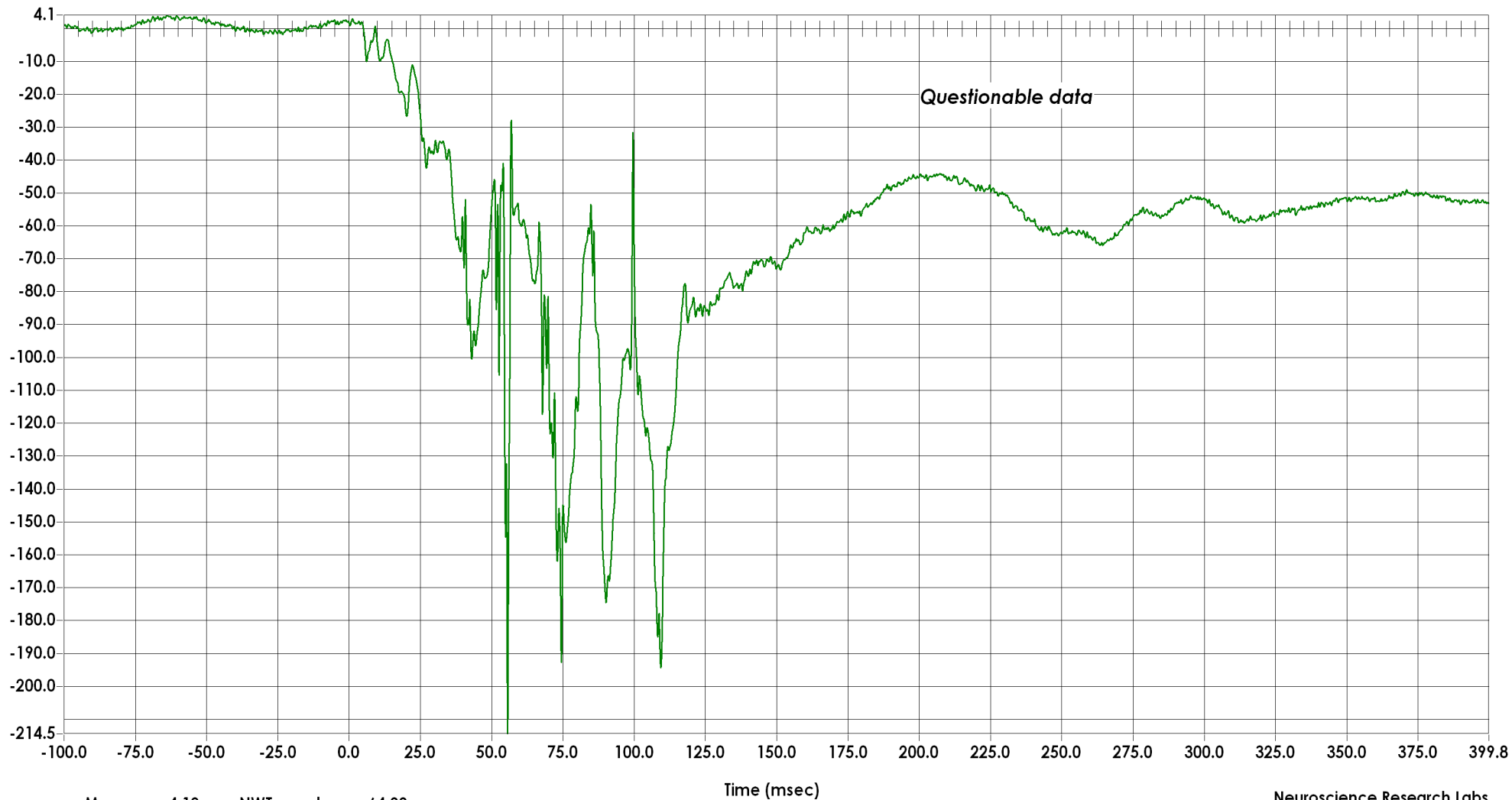
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ACE structure

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Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver left lower tibia force ZL



Max 4.12 NWT at -64.00 msec
Min -214.48 NWT at 55.60 msec

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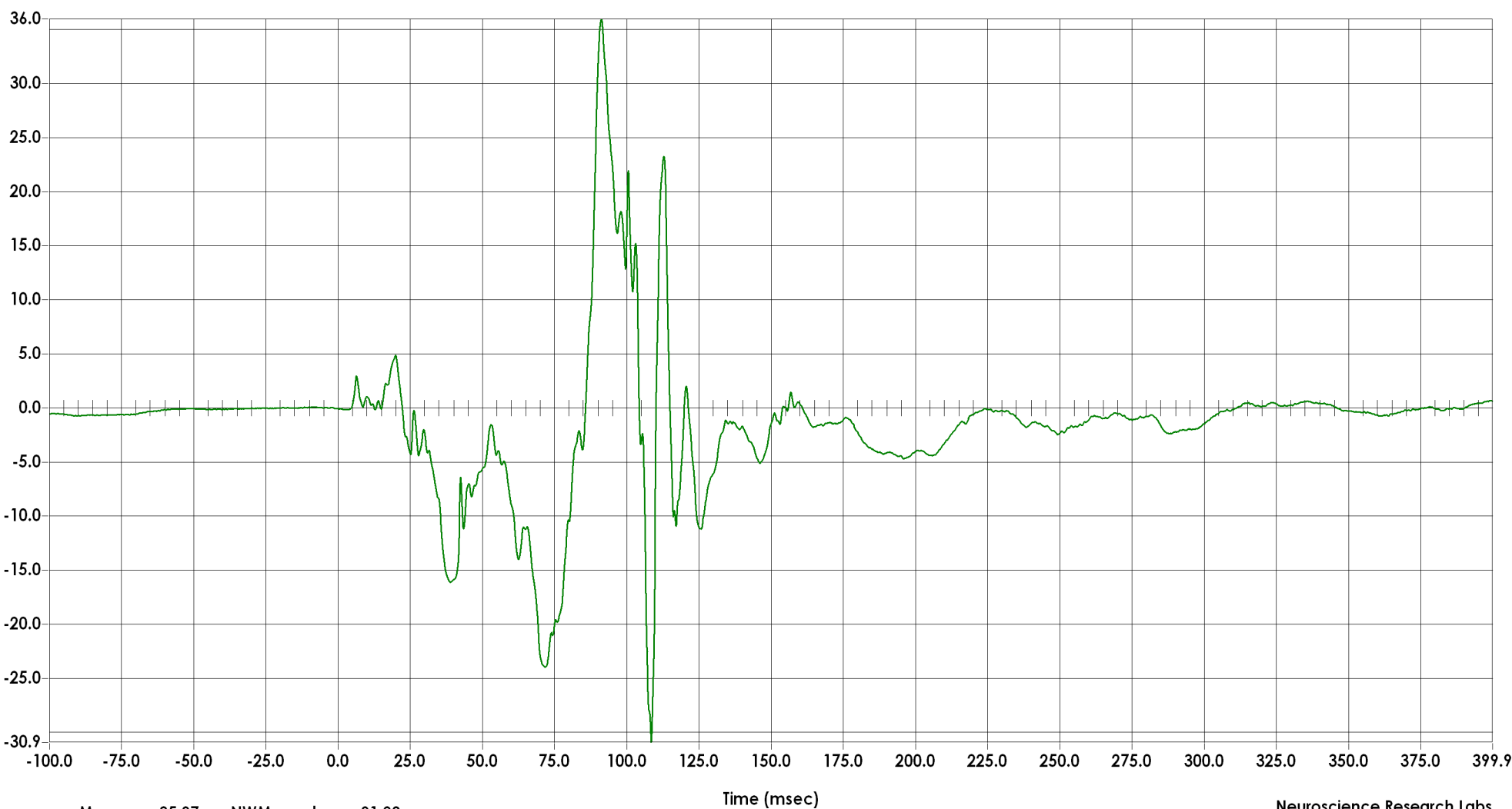
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ACE structure

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Number of Points 6250
Pretrigger Points 1250

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



NWM Driver left lower tibia moment XL



Max 35.97 NWM at 91.20 msec
Min -30.93 NWM at 108.48 msec

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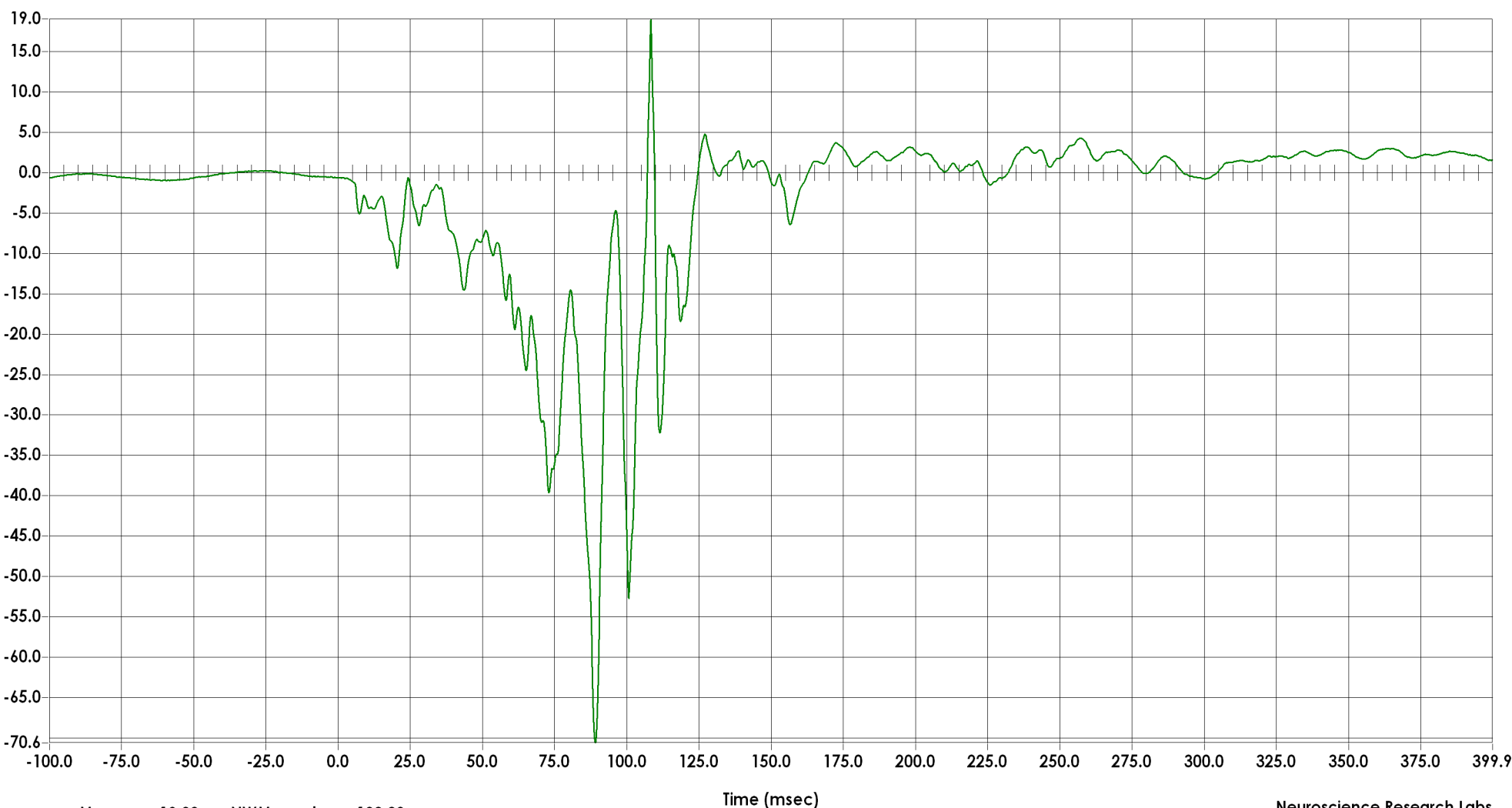
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ACE structure

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Number of Points 6250
Pretrigger Points 1250

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



NWM Driver left lower tibia moment YL



Max 19.02 NWM at 108.32 msec
Min -70.60 NWM at 89.12 msec

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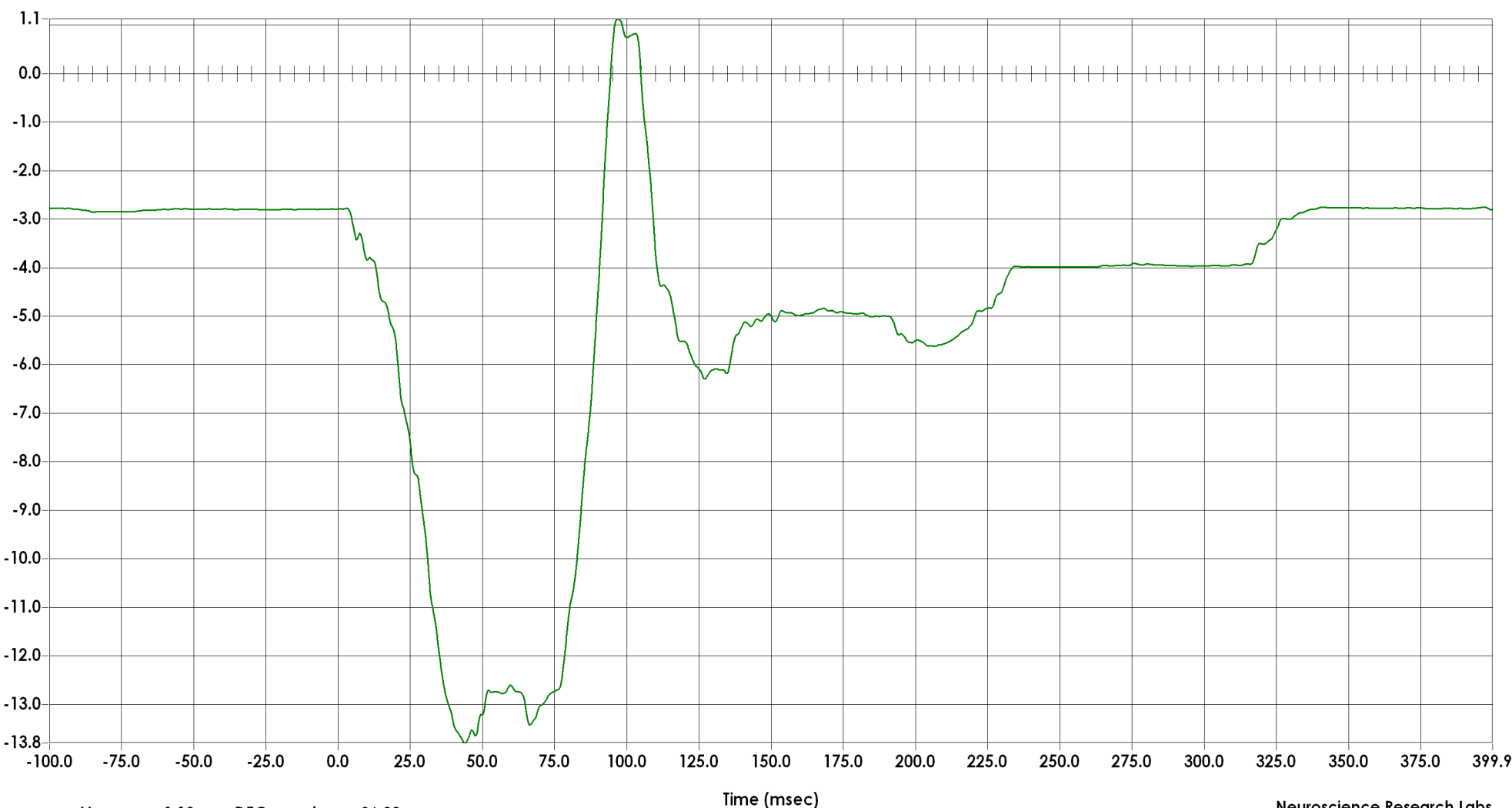
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ACE structure

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Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



DEG Driver left ankle rotation XL

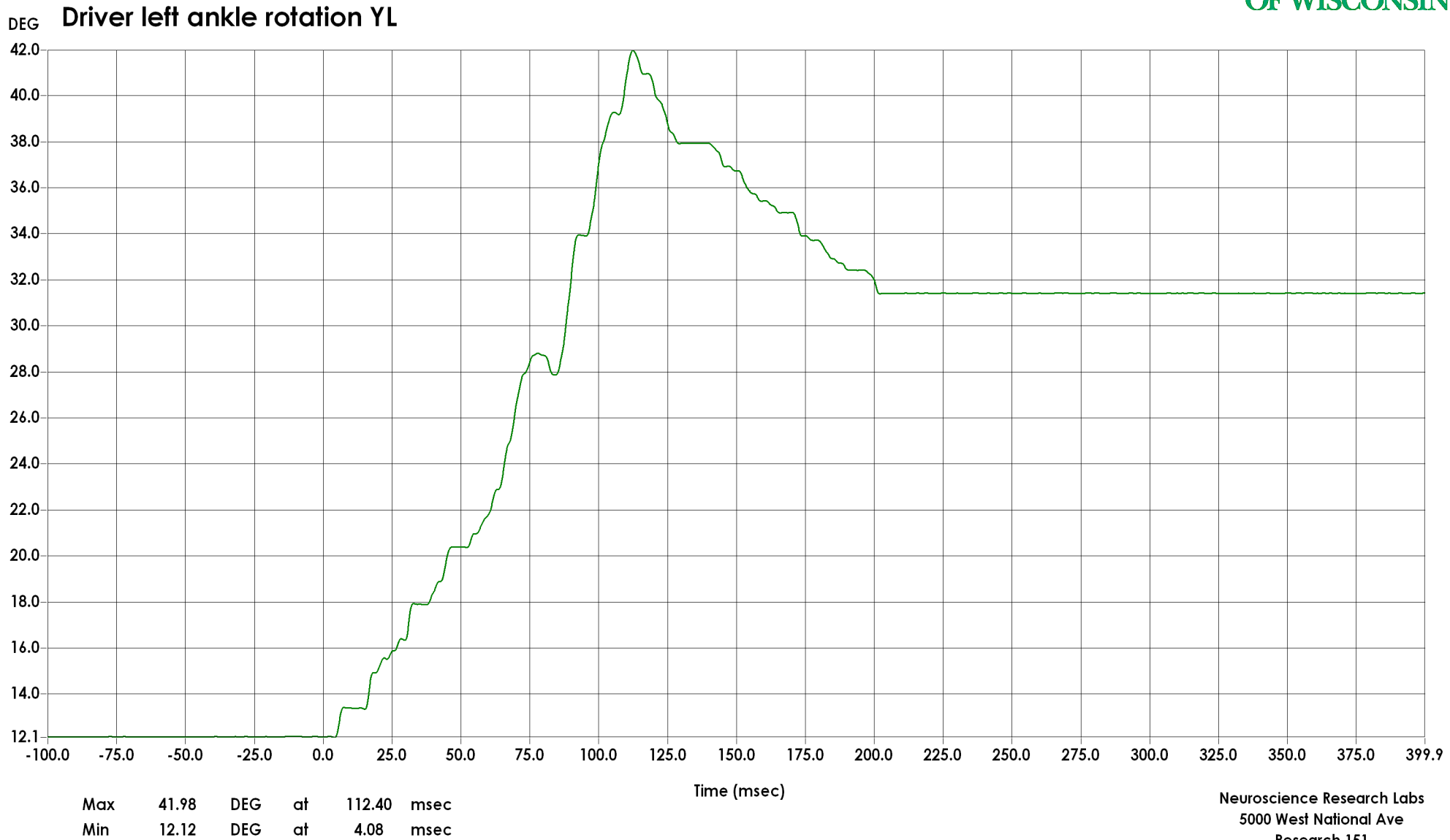


Max 1.13 DEG at 96.88 msec
Min -13.80 DEG at 43.92 msec

Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
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Number of Points 6250
Pretrigger Points 1250

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



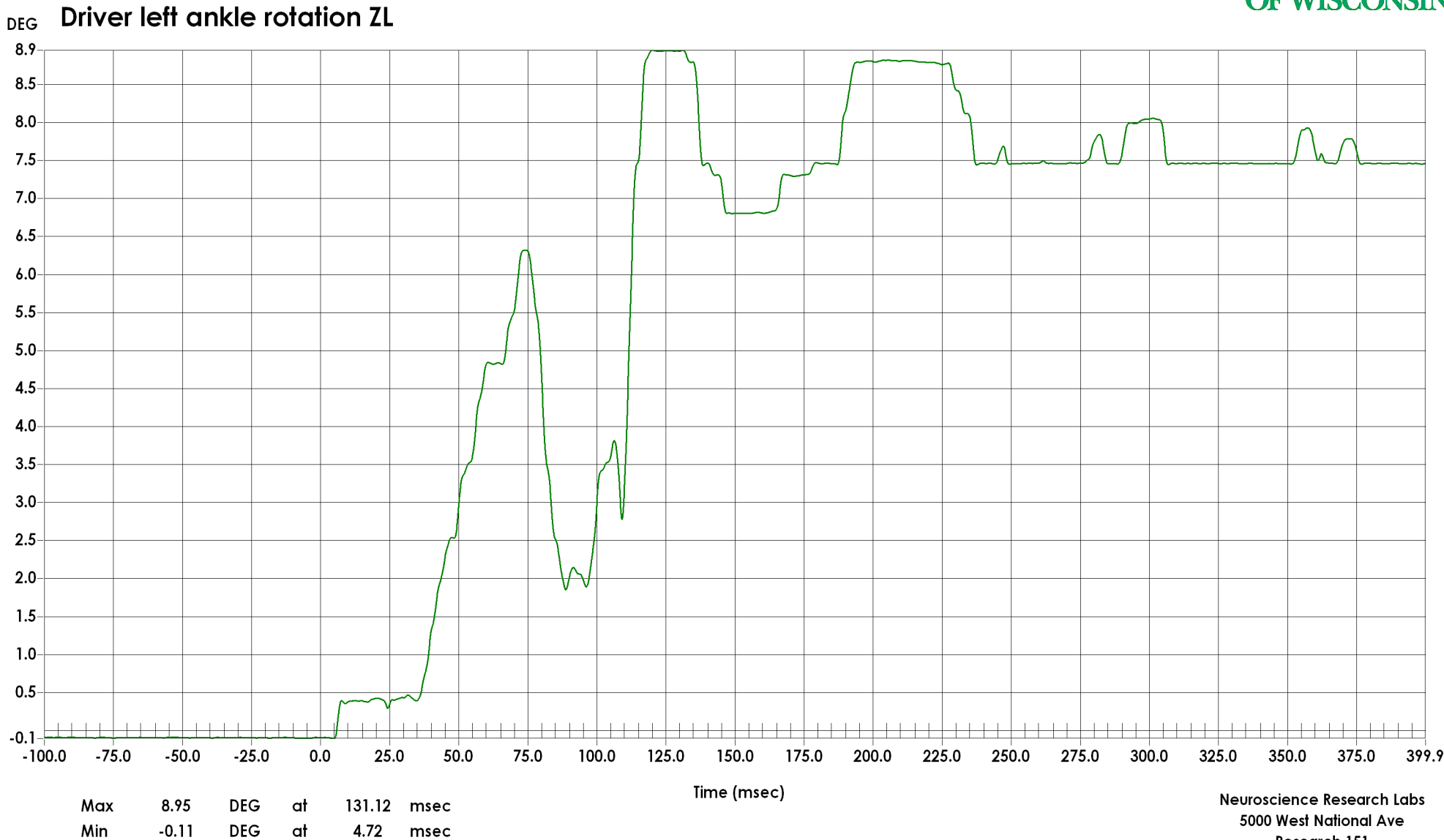
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ACE structure

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Pretrigger Points 1250

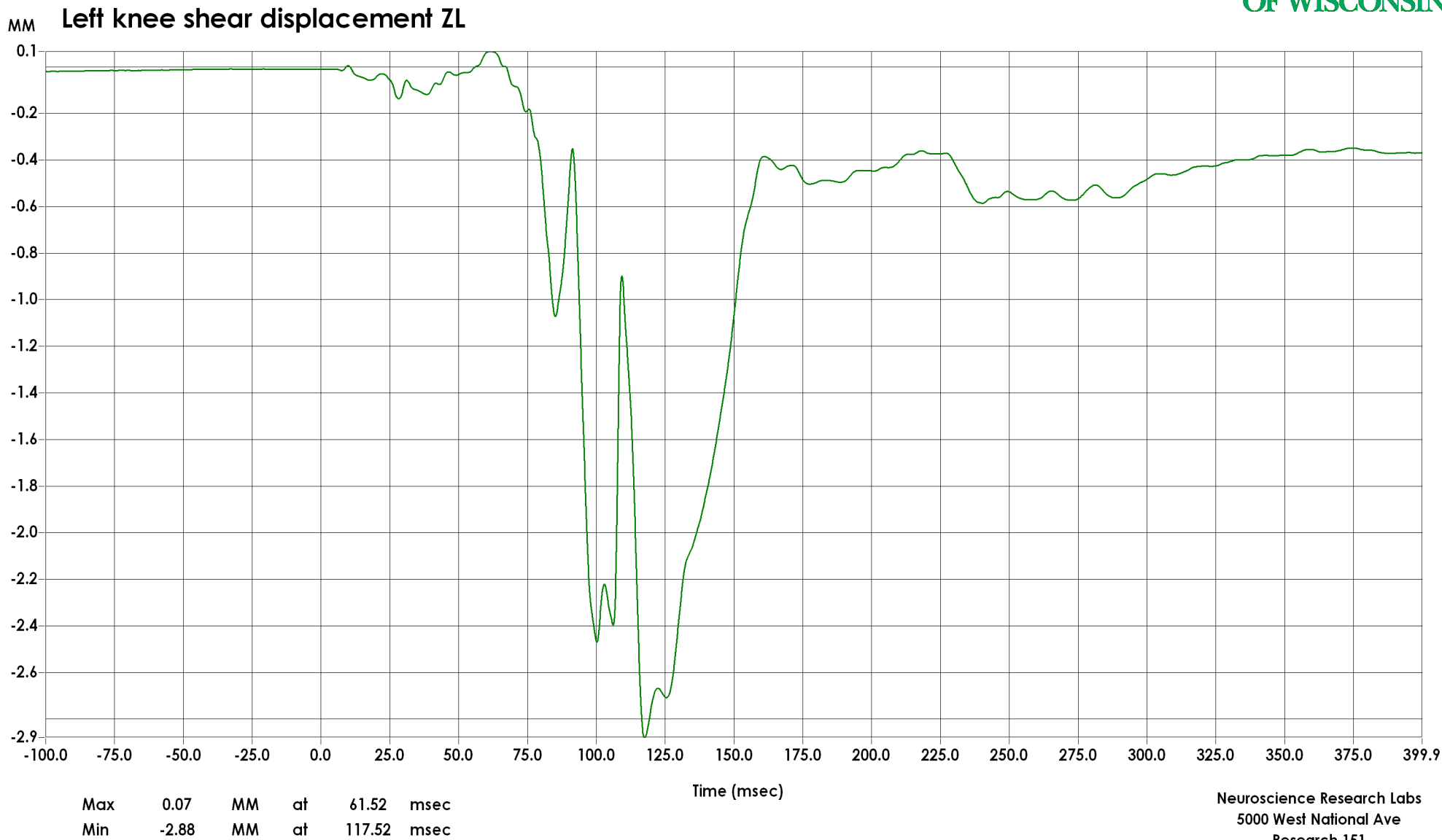
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Sensor Info CONTELEC PD210-4B
Serial Number ANKLZ 7921-0477



Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
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Number of Points 6250
Pretrigger Points 1250

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



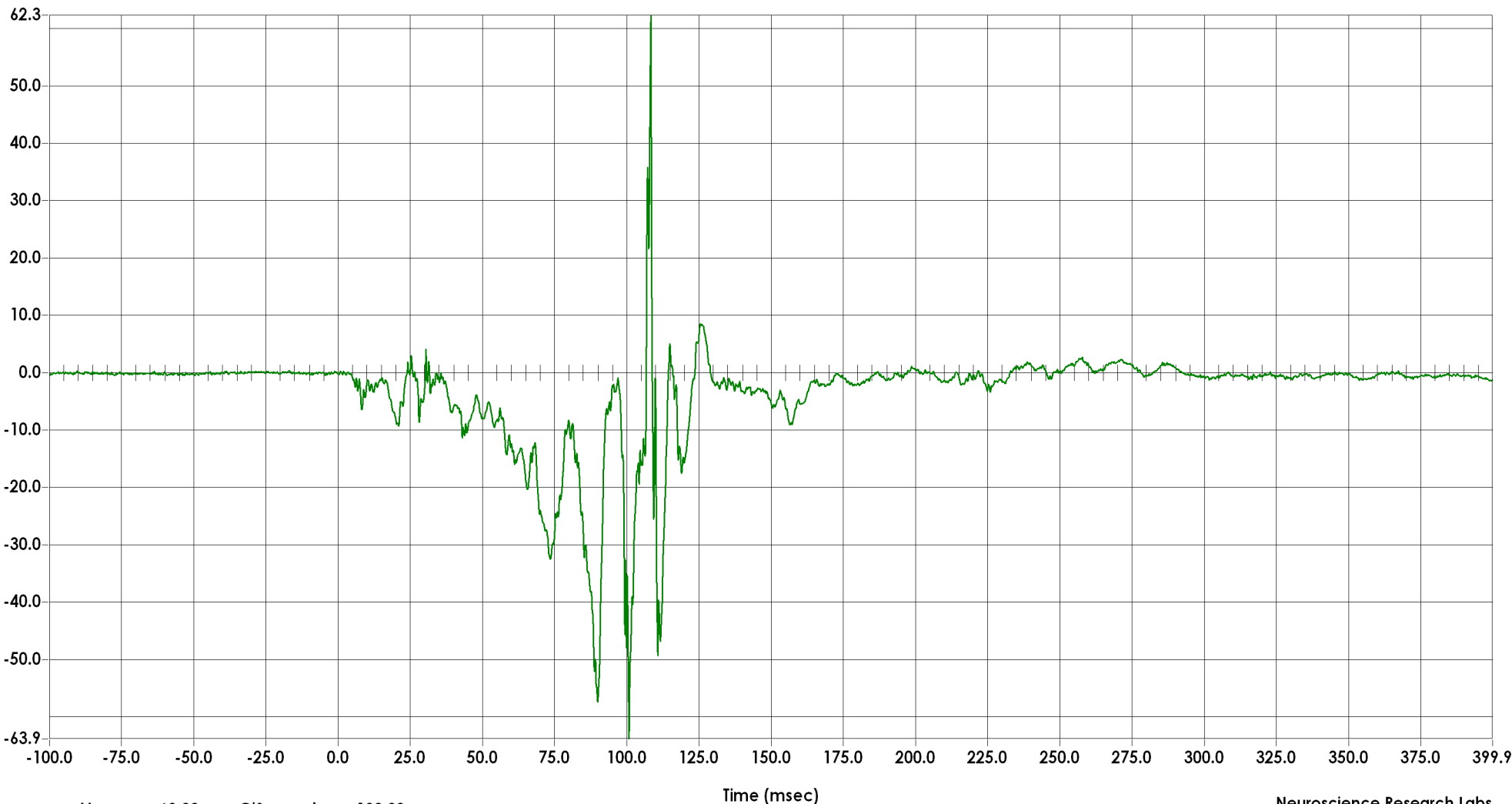
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ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver left tibia acceleration XL



Max 62.33 G'S at 108.32 msec
Min -63.87 G'S at 100.80 msec

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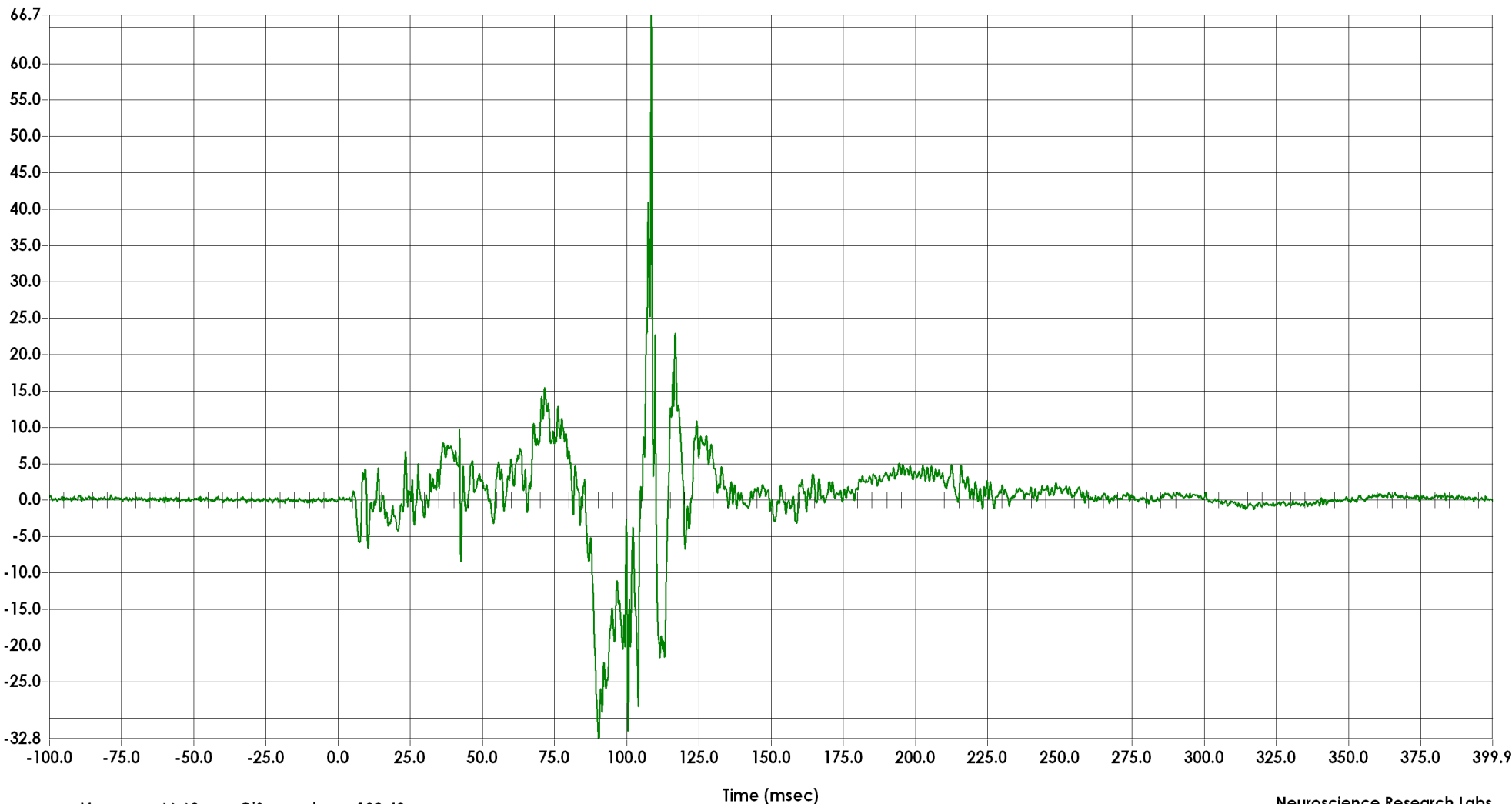
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ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver left tibia acceleration YL



Max 66.68 G'S at 108.48 msec
Min -32.83 G'S at 90.24 msec

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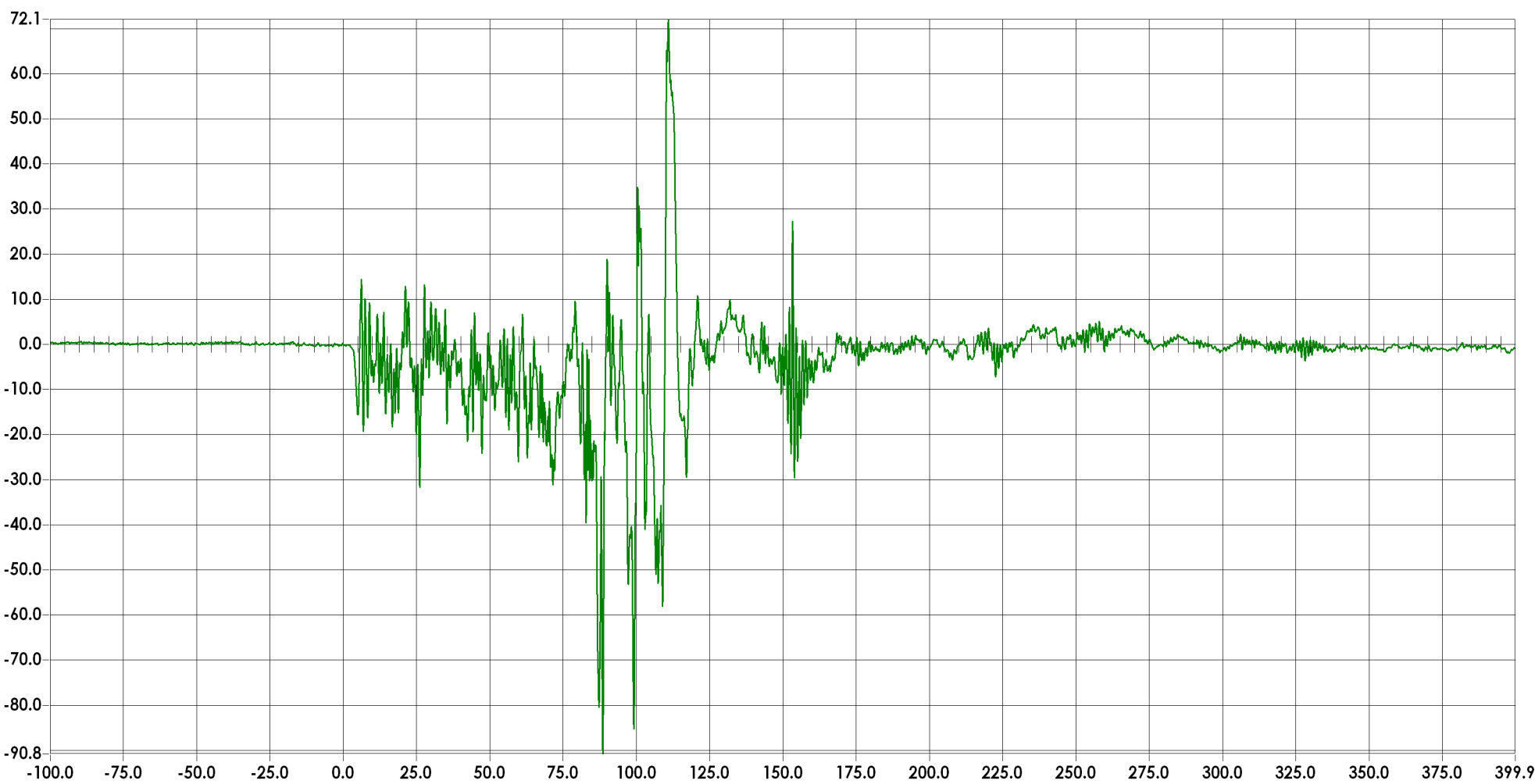
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Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver left foot acceleration XL



Max 72.05 G'S at 110.96 msec
Min -90.80 G'S at 88.56 msec

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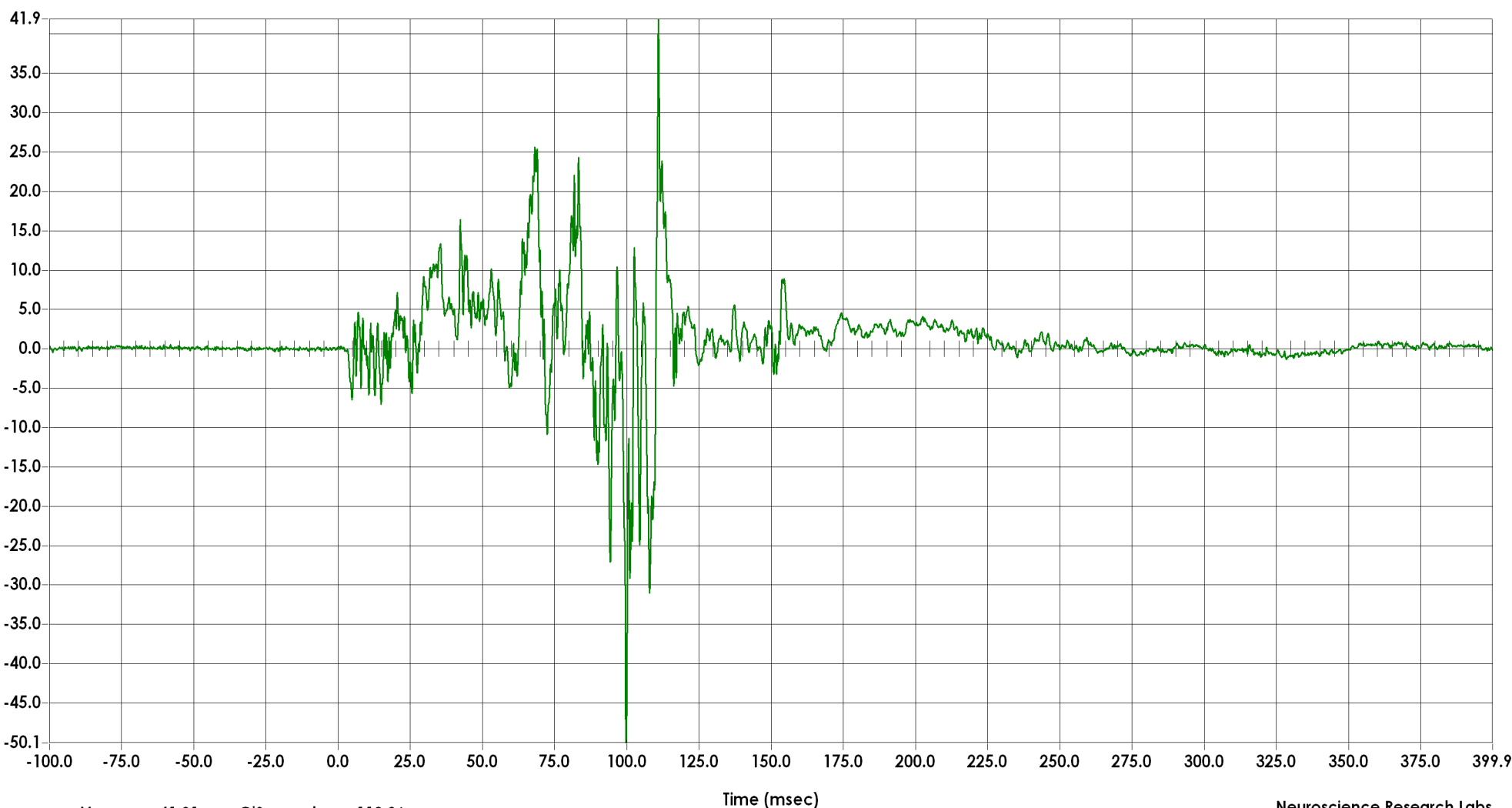
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver left foot acceleration YL



Max 41.91 G'S at 110.96 msec
Min -50.07 G'S at 99.76 msec

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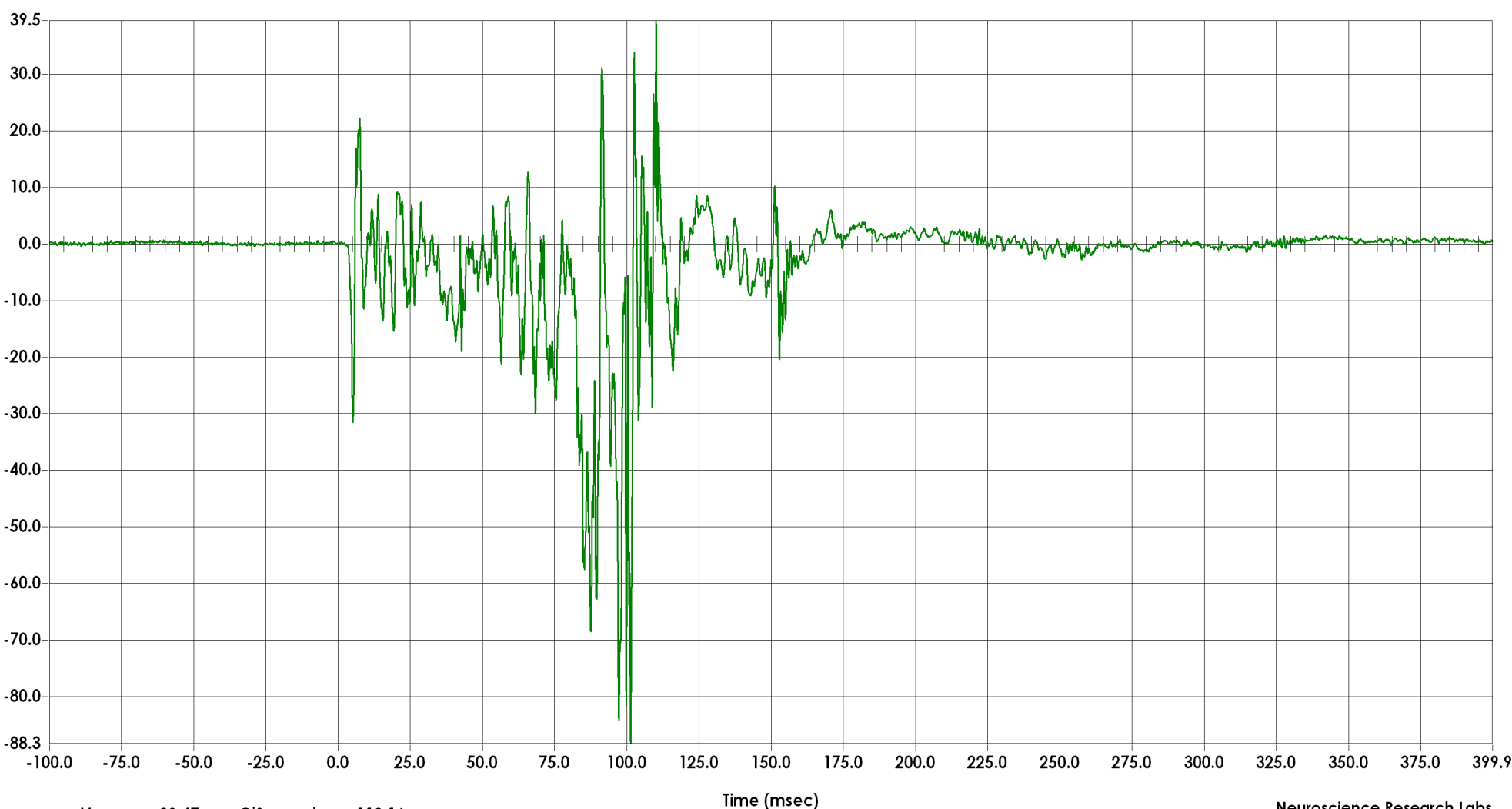
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Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver left foot acceleration ZL



Max 39.47 G'S at 110.16 msec
Min -88.34 G'S at 101.36 msec

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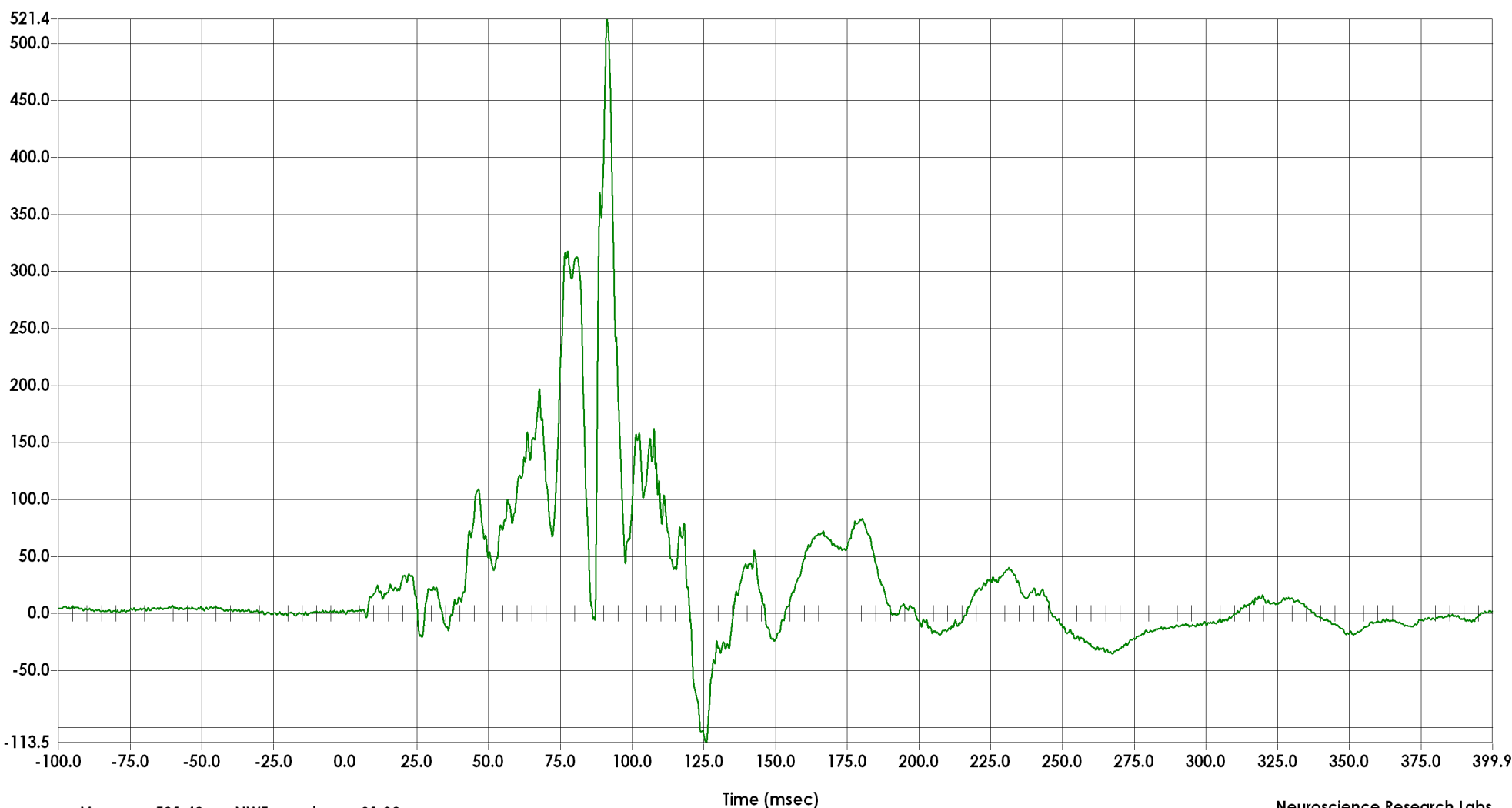
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Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right upper tibia force XL



Max 521.43 NWT at 91.20 msec
Min -113.49 NWT at 125.92 msec

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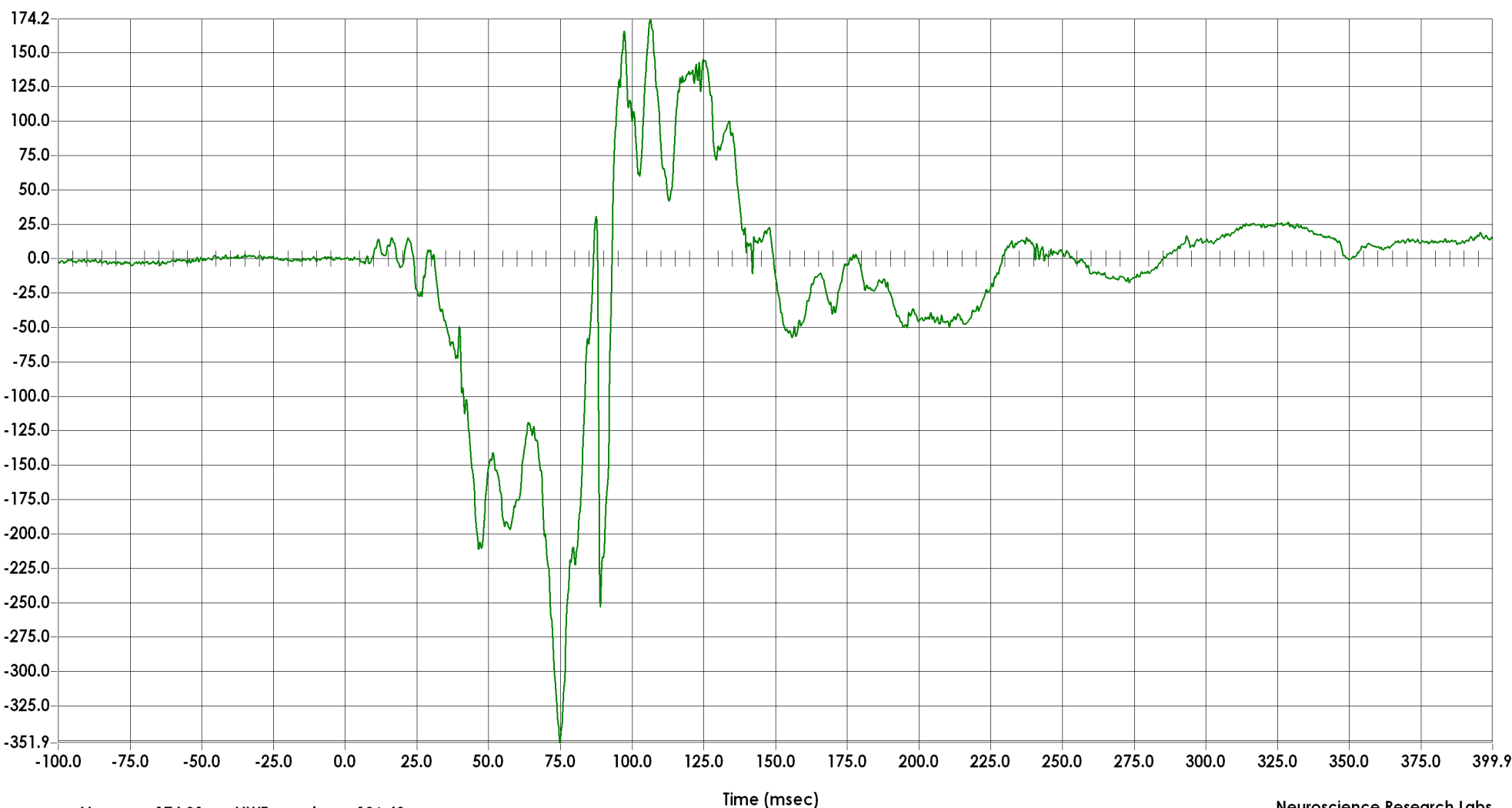
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right upper tibia force YL



Max 174.21 NWT at 106.40 msec
Min -351.88 NWT at 74.88 msec

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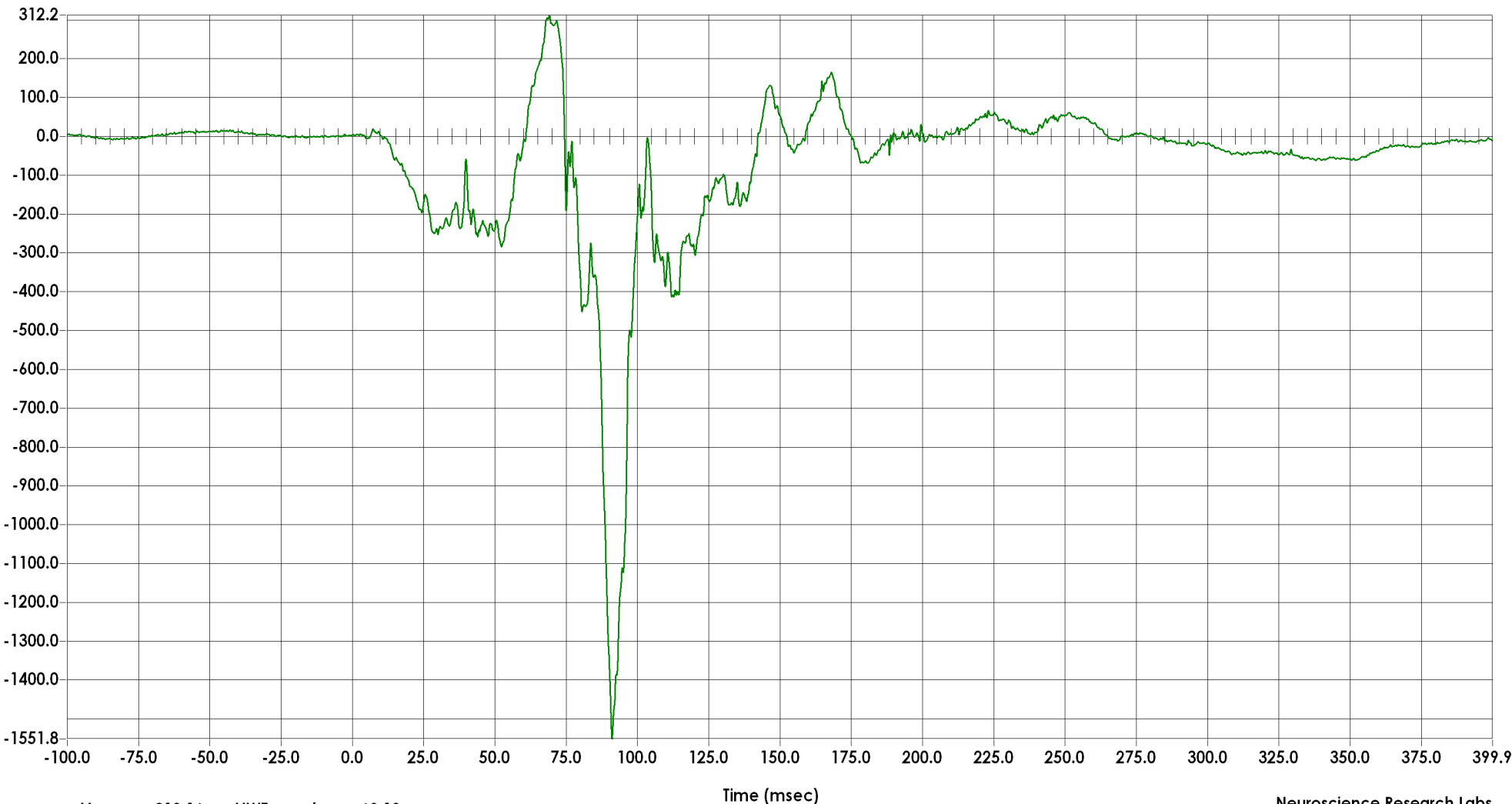
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right upper tibia force ZL



Max 312.16 NWT at 69.12 msec
Min -1551.78 NWT at 91.12 msec

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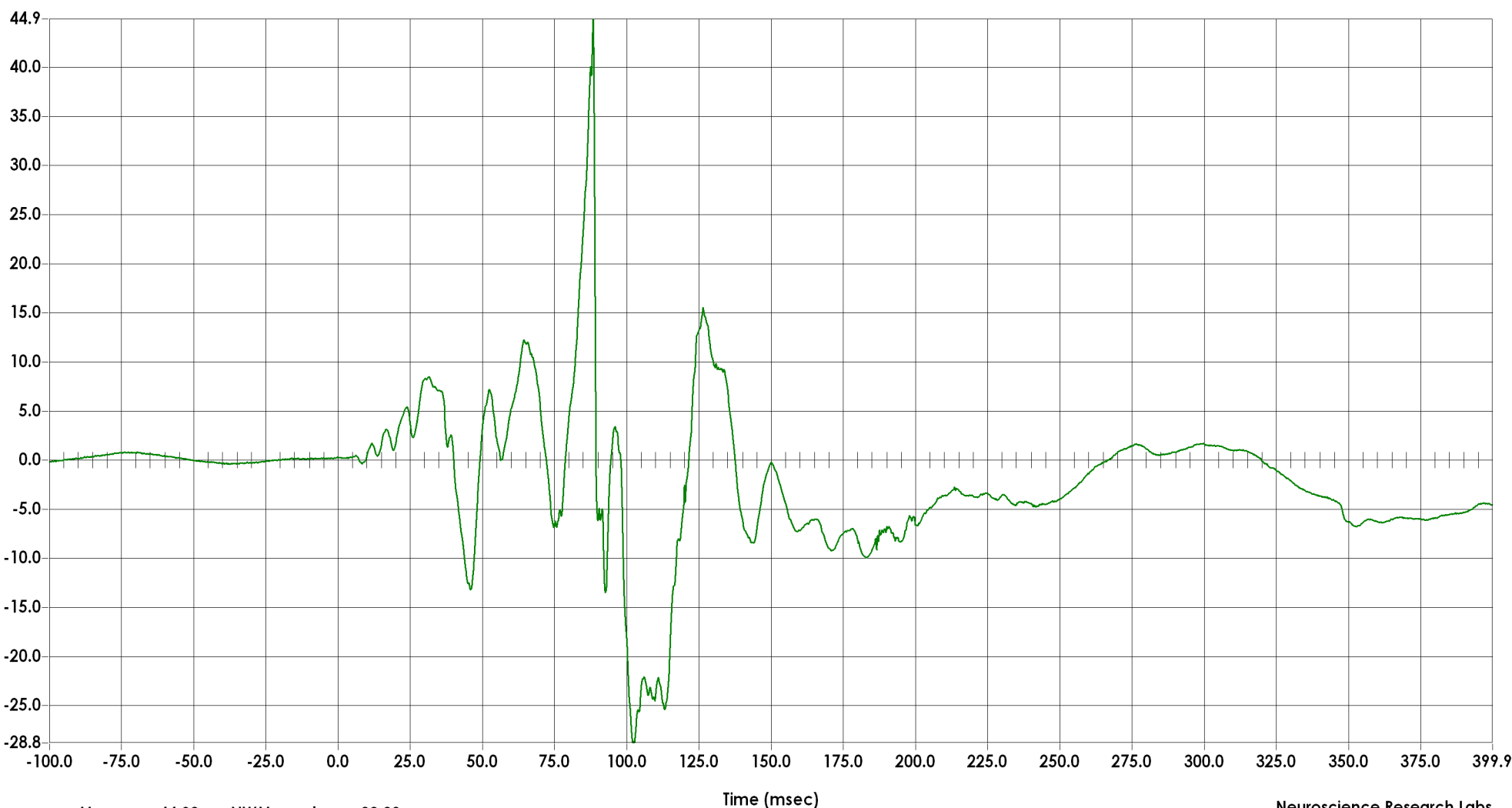
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver right upper tibia moment XL



Max 44.93 NWM at 88.32 msec
Min -28.80 NWM at 102.00 msec

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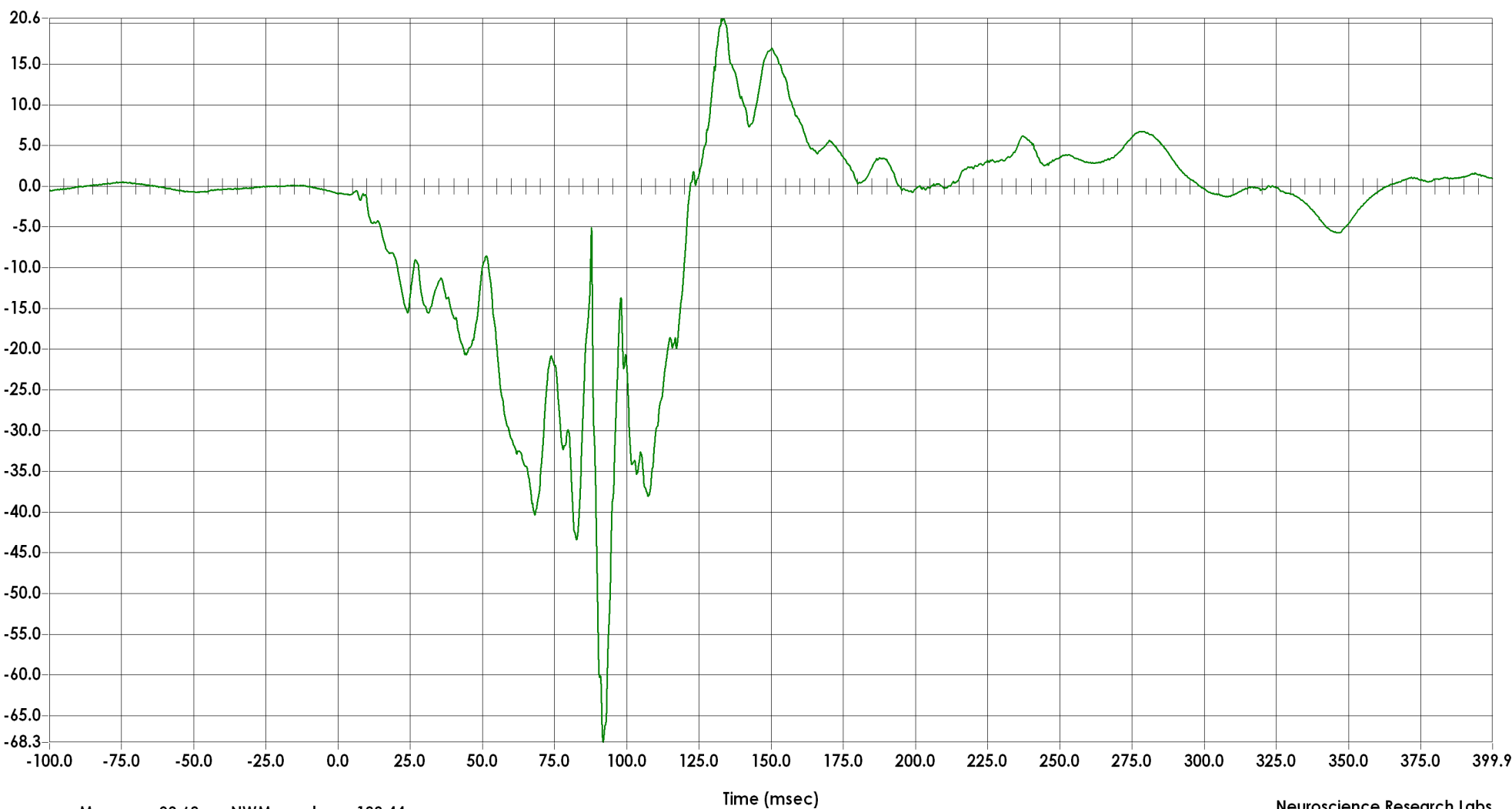
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver right upper tibia moment YL



Max 20.63 NWM at 133.44 msec
Min -68.28 NWM at 91.76 msec

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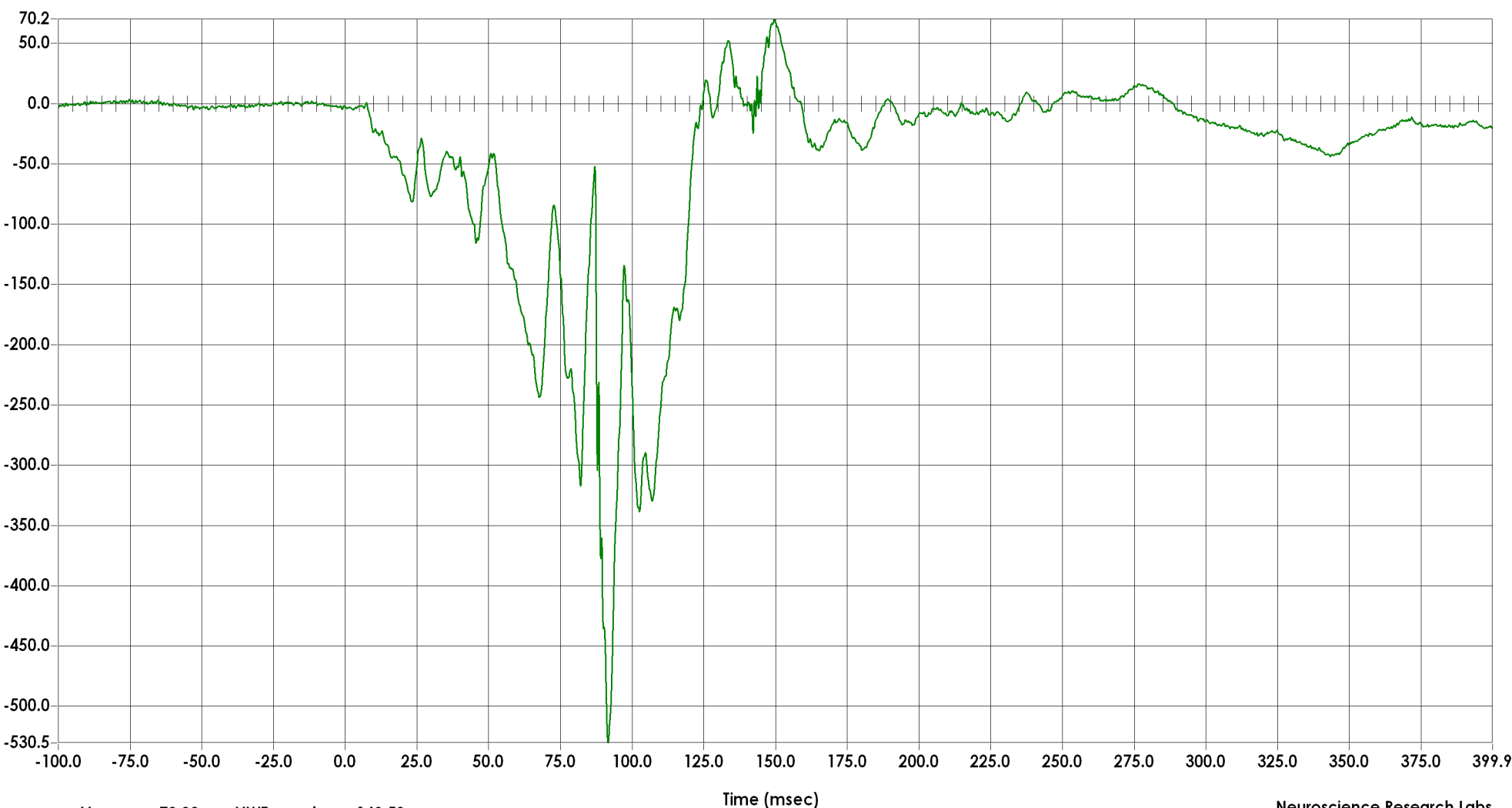
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right lower tibia force XL



Max 70.20 NWT at 149.52 msec
Min -530.53 NWT at 91.60 msec

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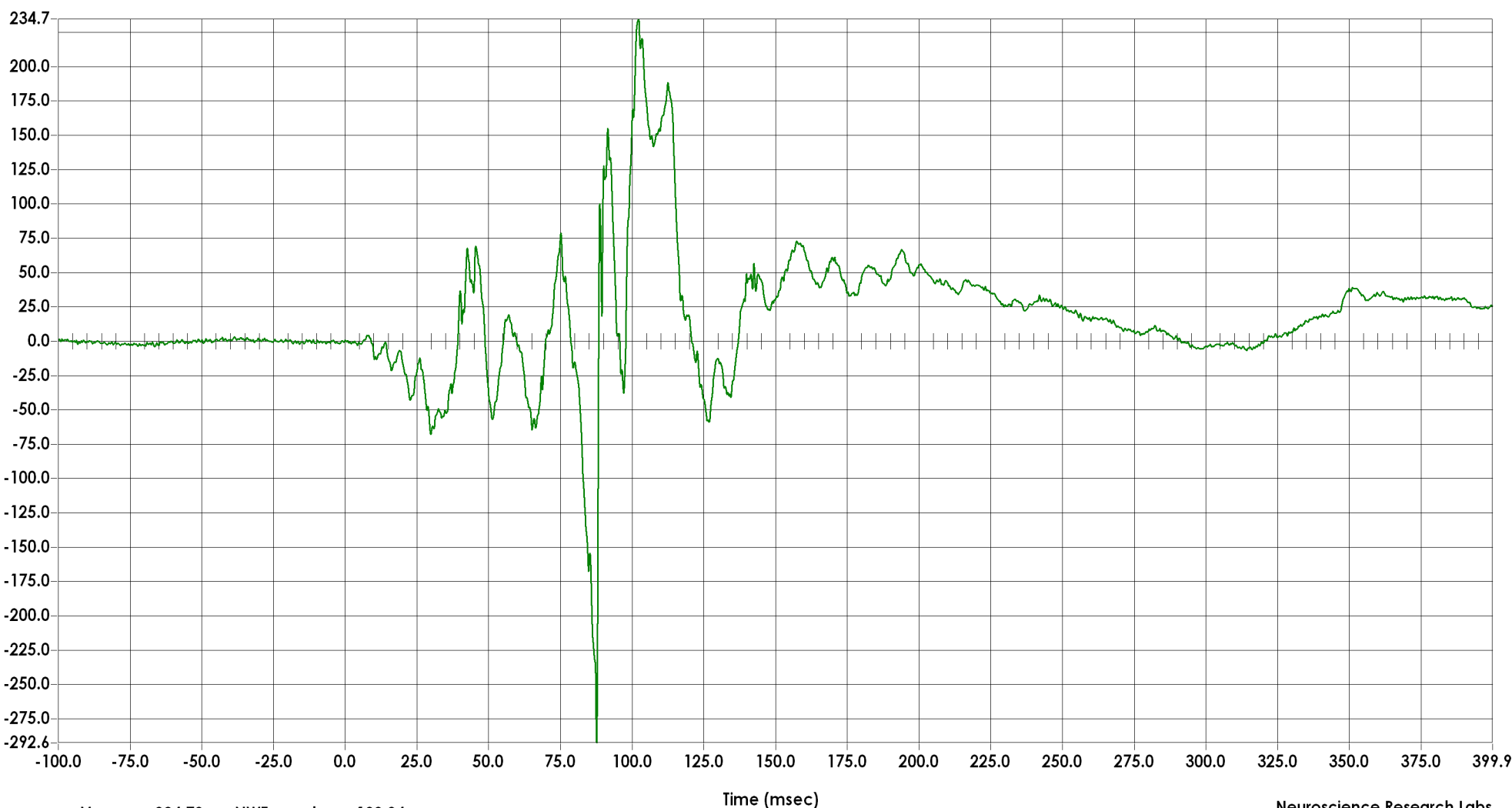
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right lower tibia force YL



Max 234.72 NWT at 102.24 msec
Min -292.60 NWT at 87.68 msec

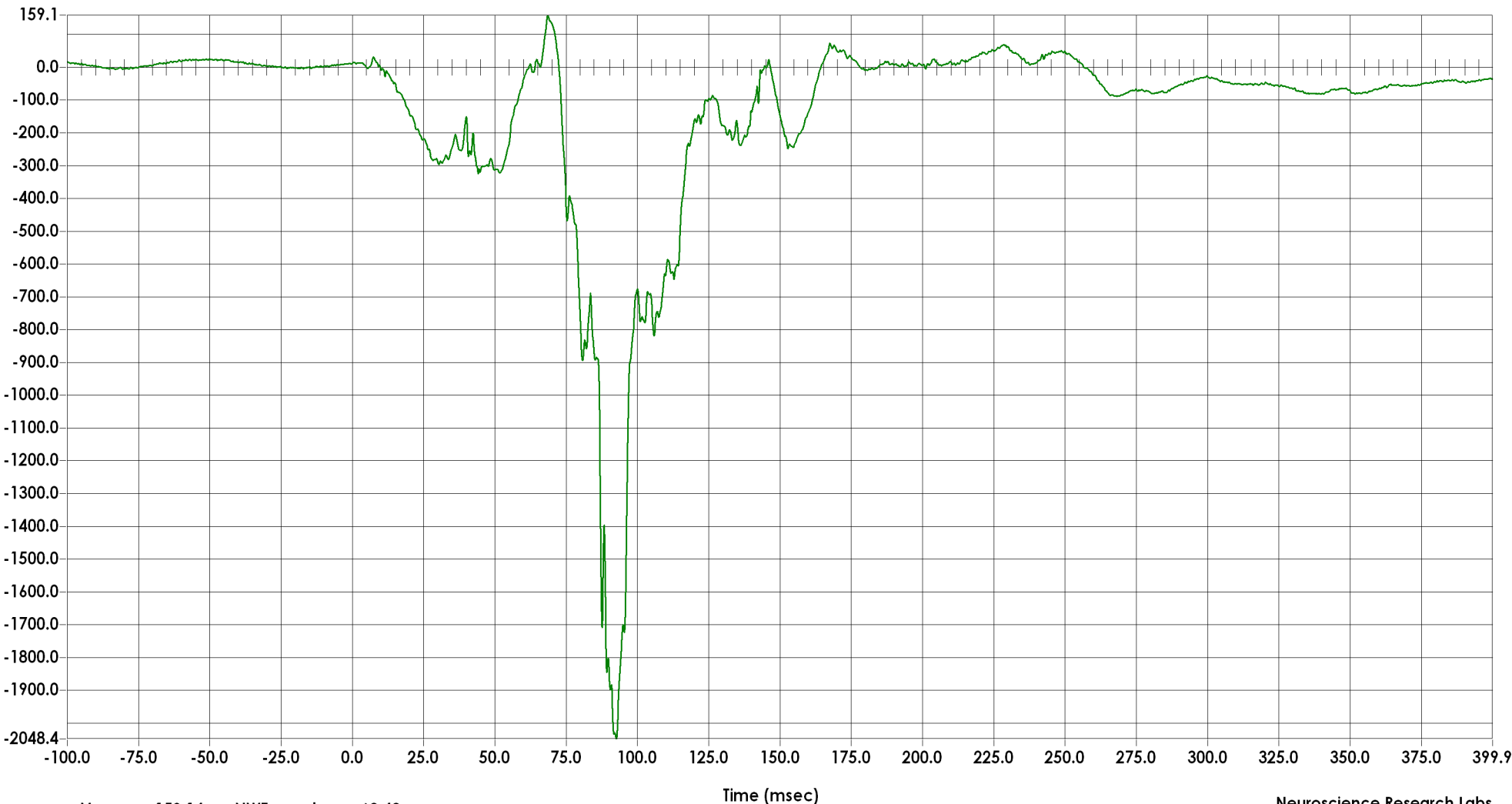
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right lower tibia force ZL



Max 159.14 NWT at 68.48 msec
Min -2048.38 NWT at 92.64 msec

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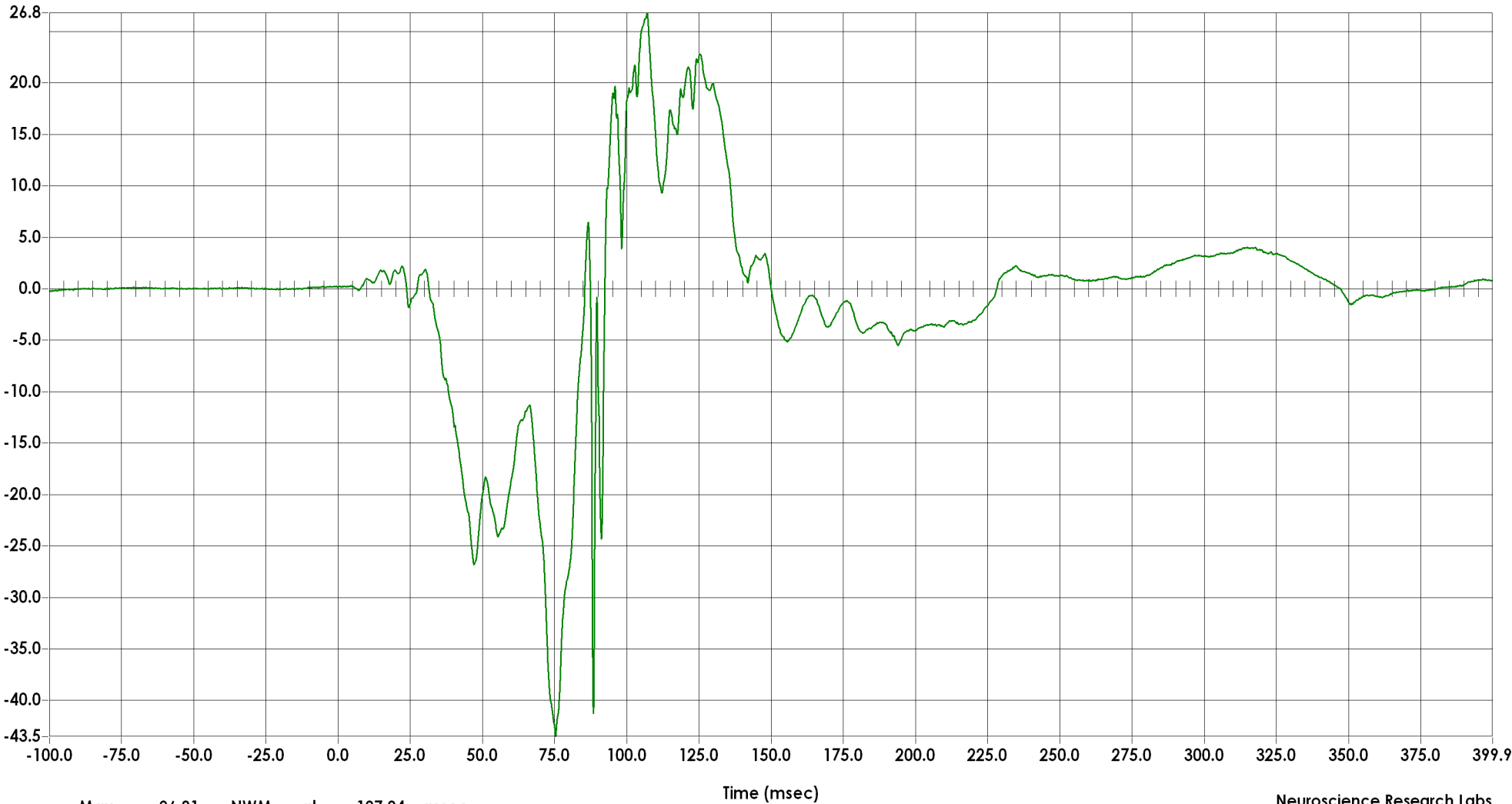
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver right lower tibia moment XL



Max 26.81 NWM at 107.04 msec
Min -43.52 NWM at 75.36 msec

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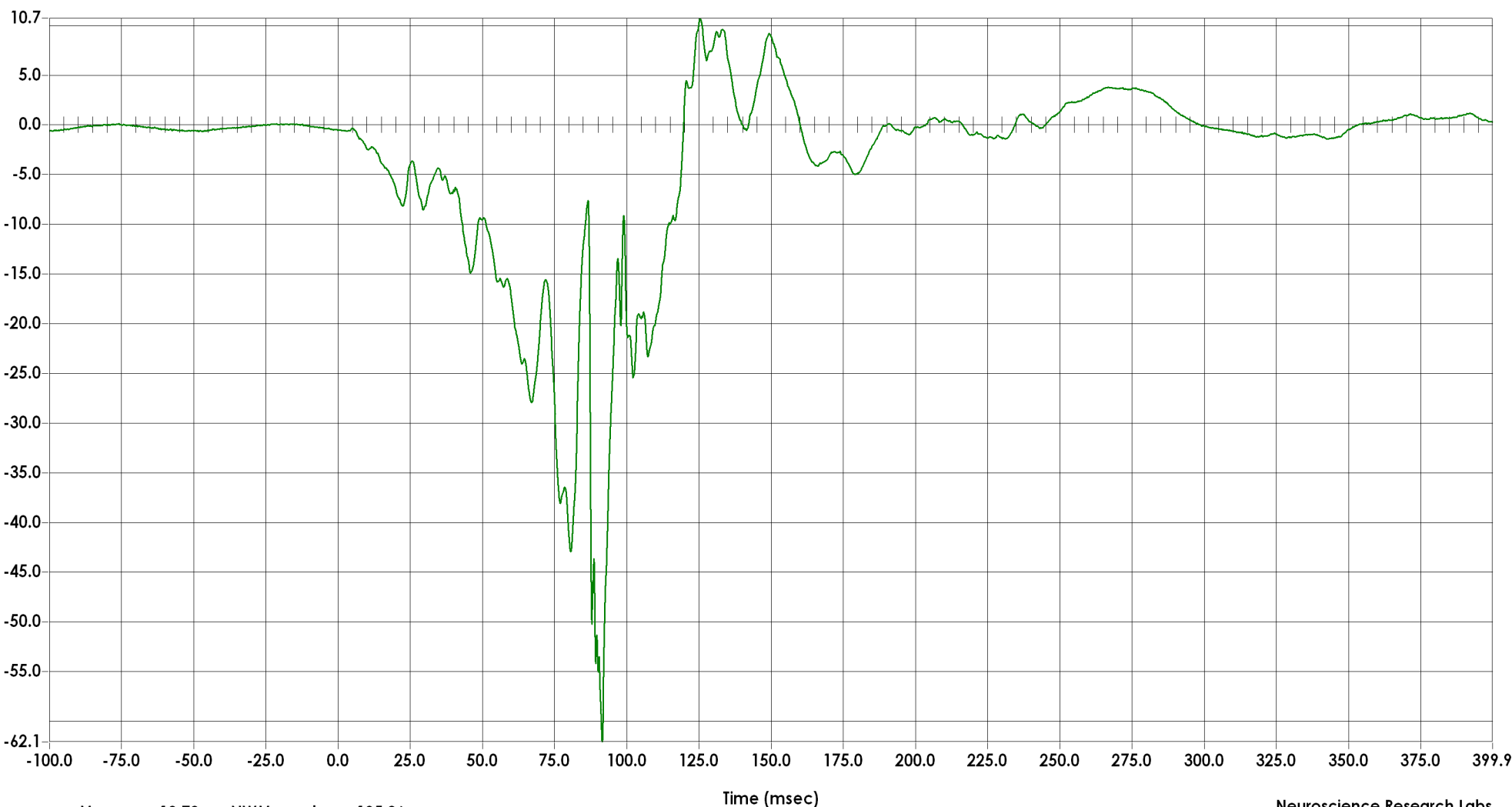
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver right lower tibia moment YL



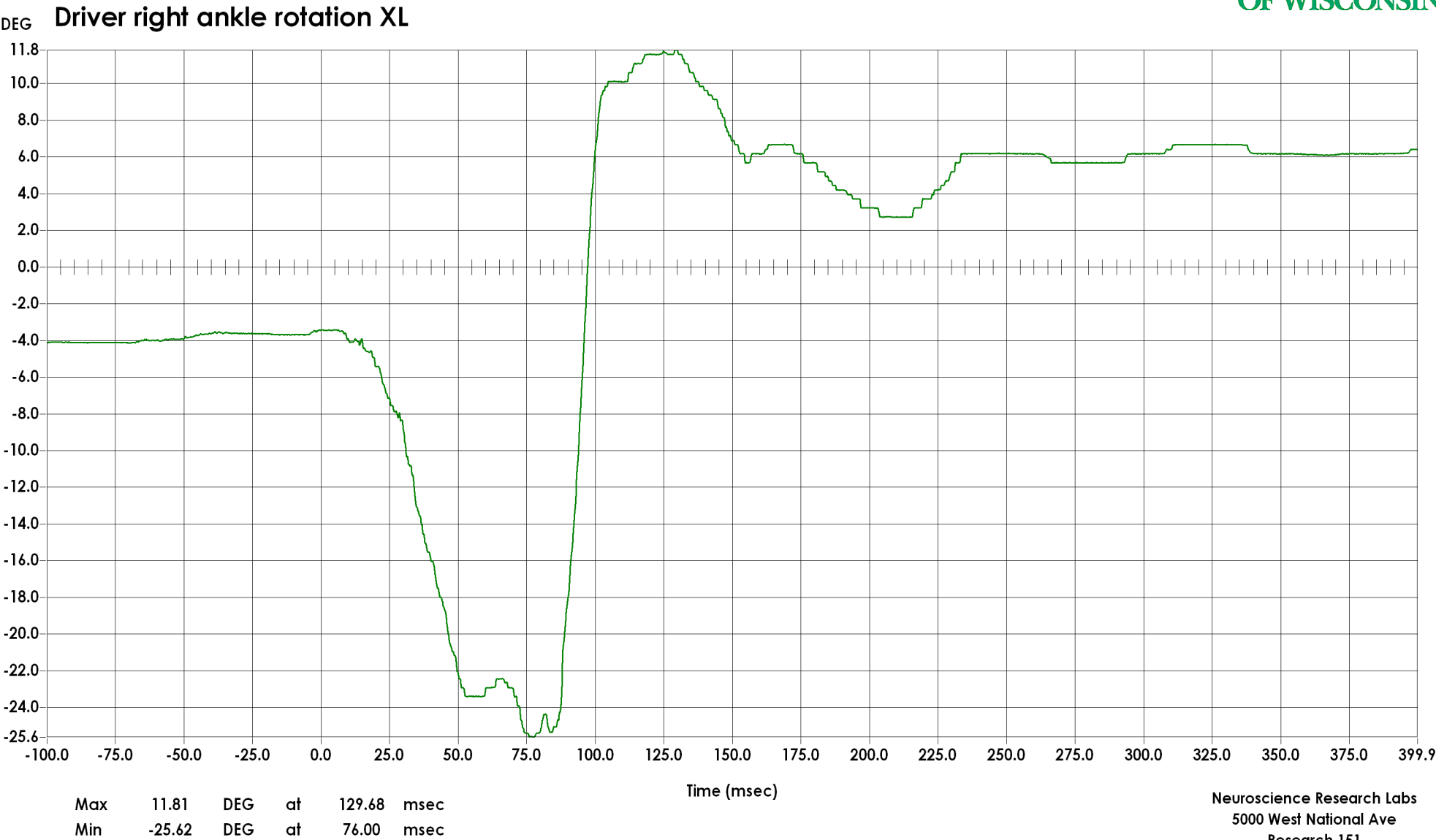
Max 10.73 NWM at 125.36 msec
Min -62.08 NWM at 91.52 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



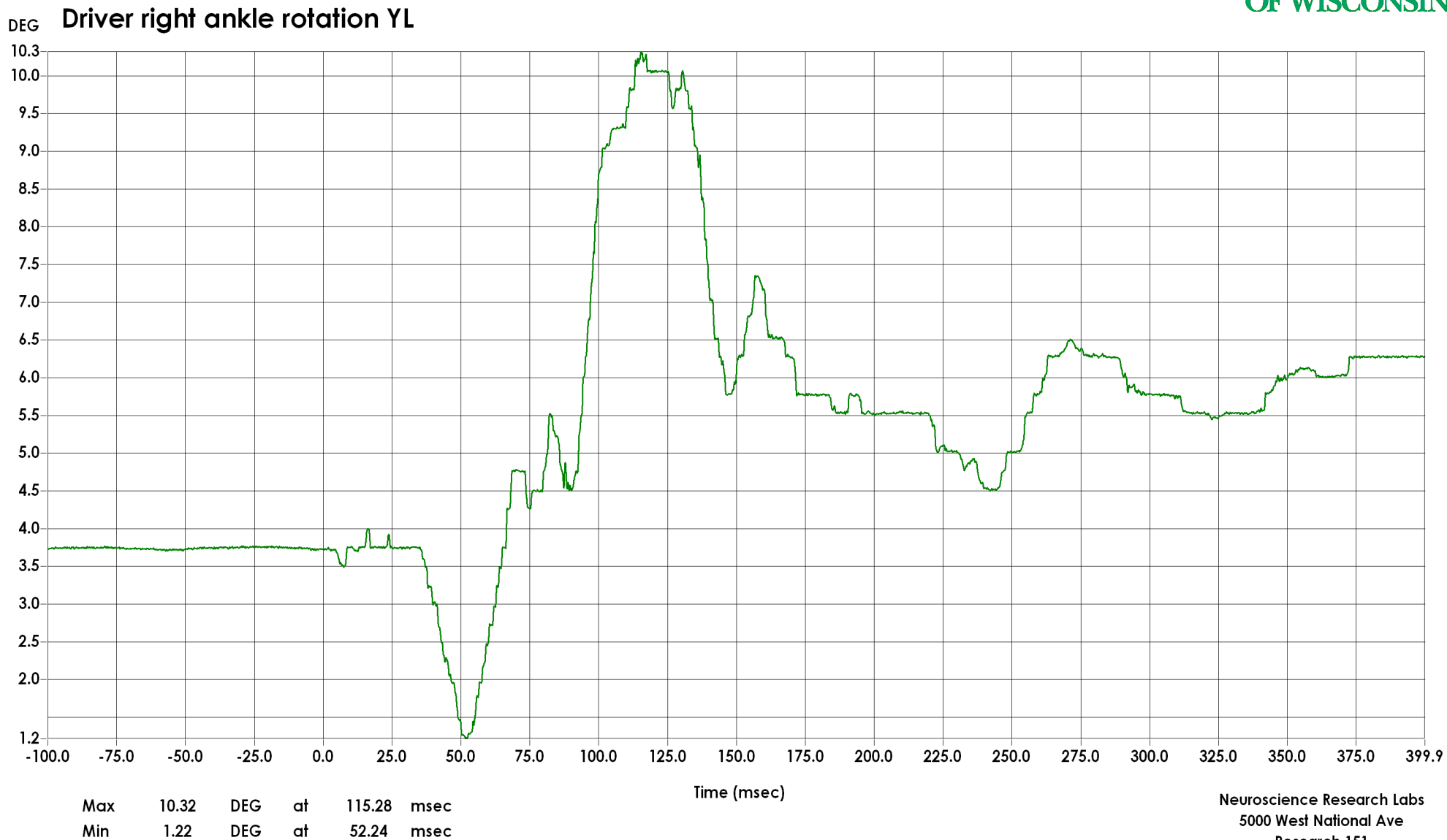
SOI001 Plot 023

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

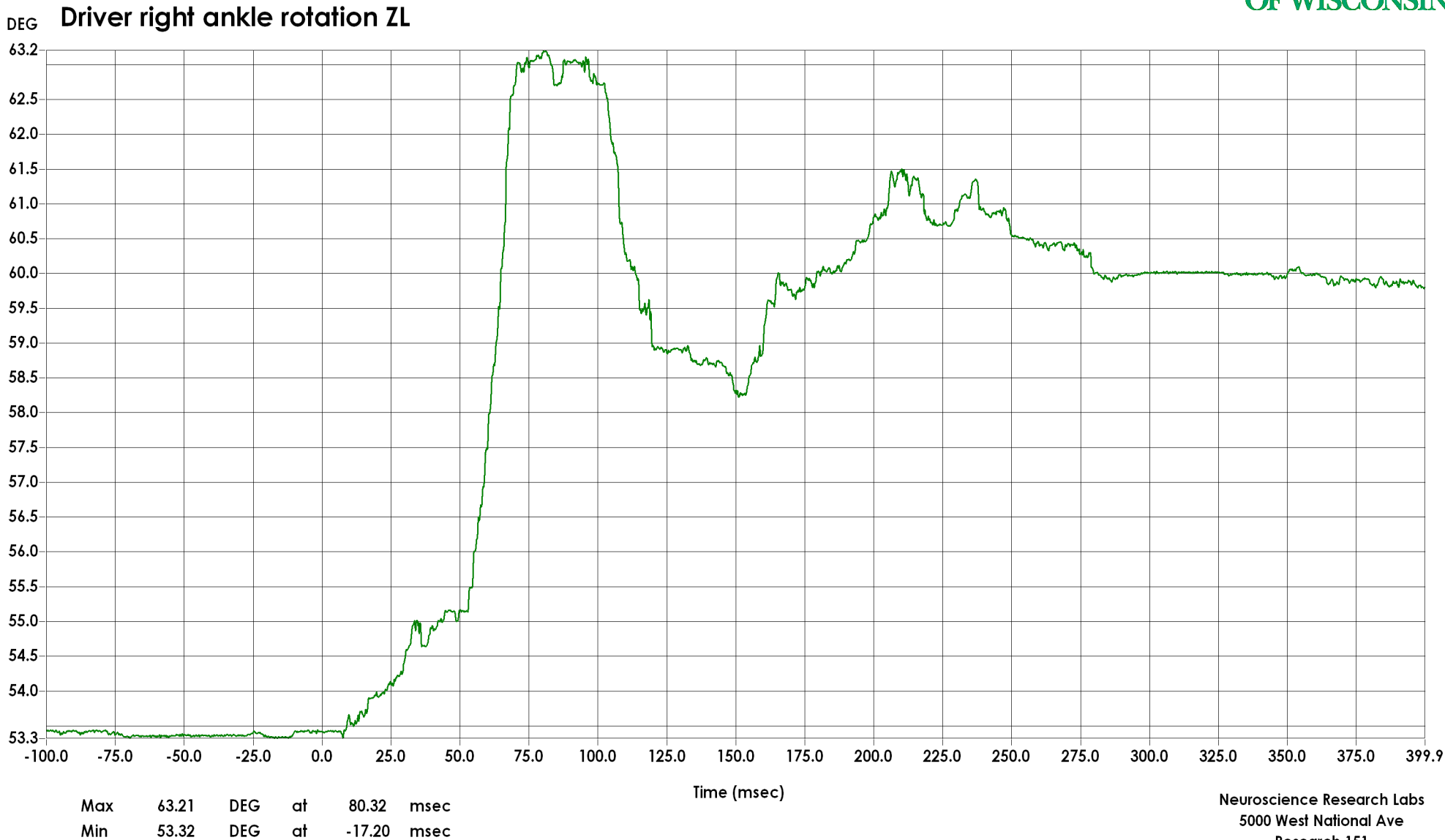
Sensor Location ANKR
Sensor Info CONTELEC PD210-4B
Serial Number ANKRY 7921-0369



Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



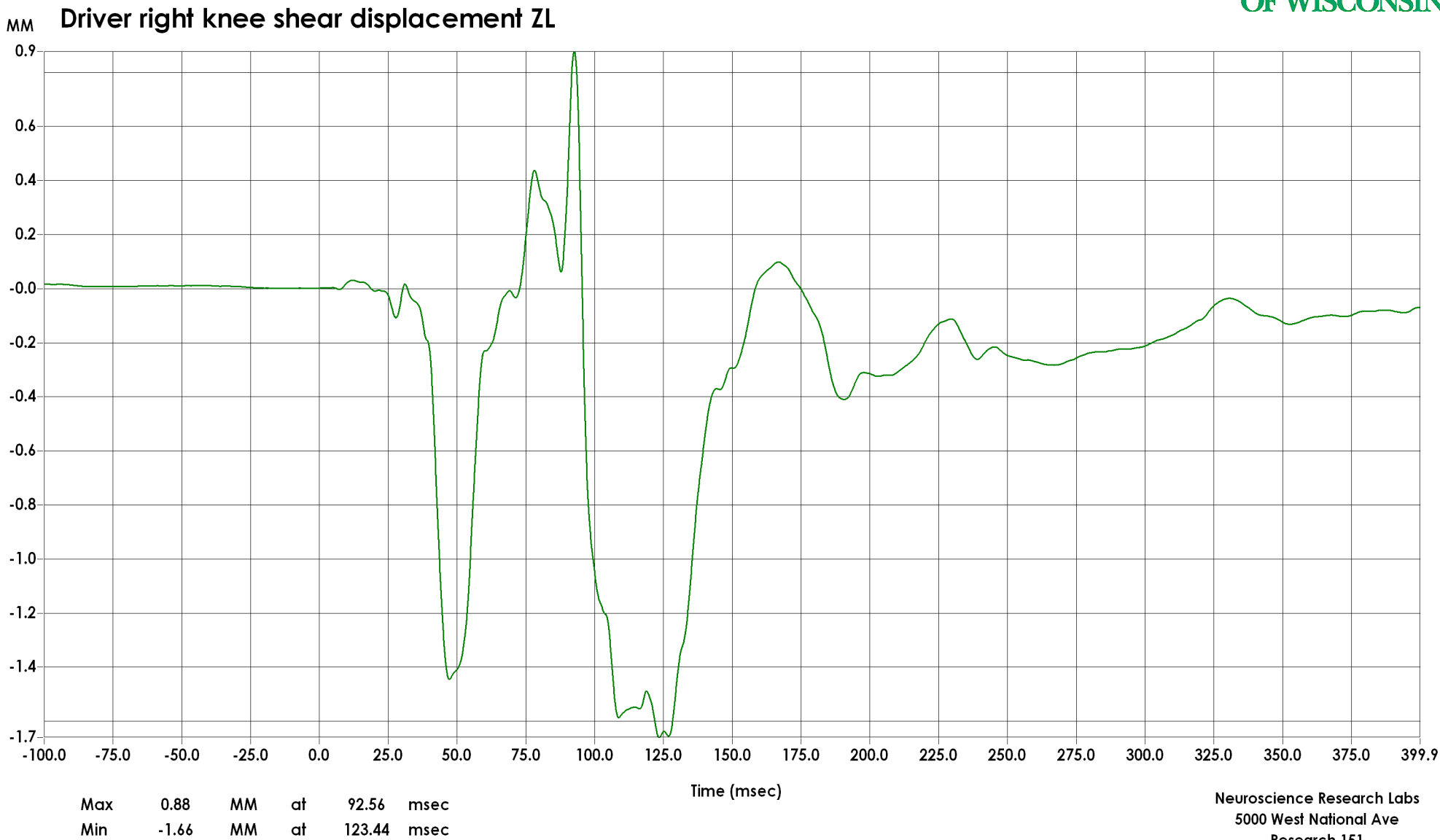
SOI001 Plot 025

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



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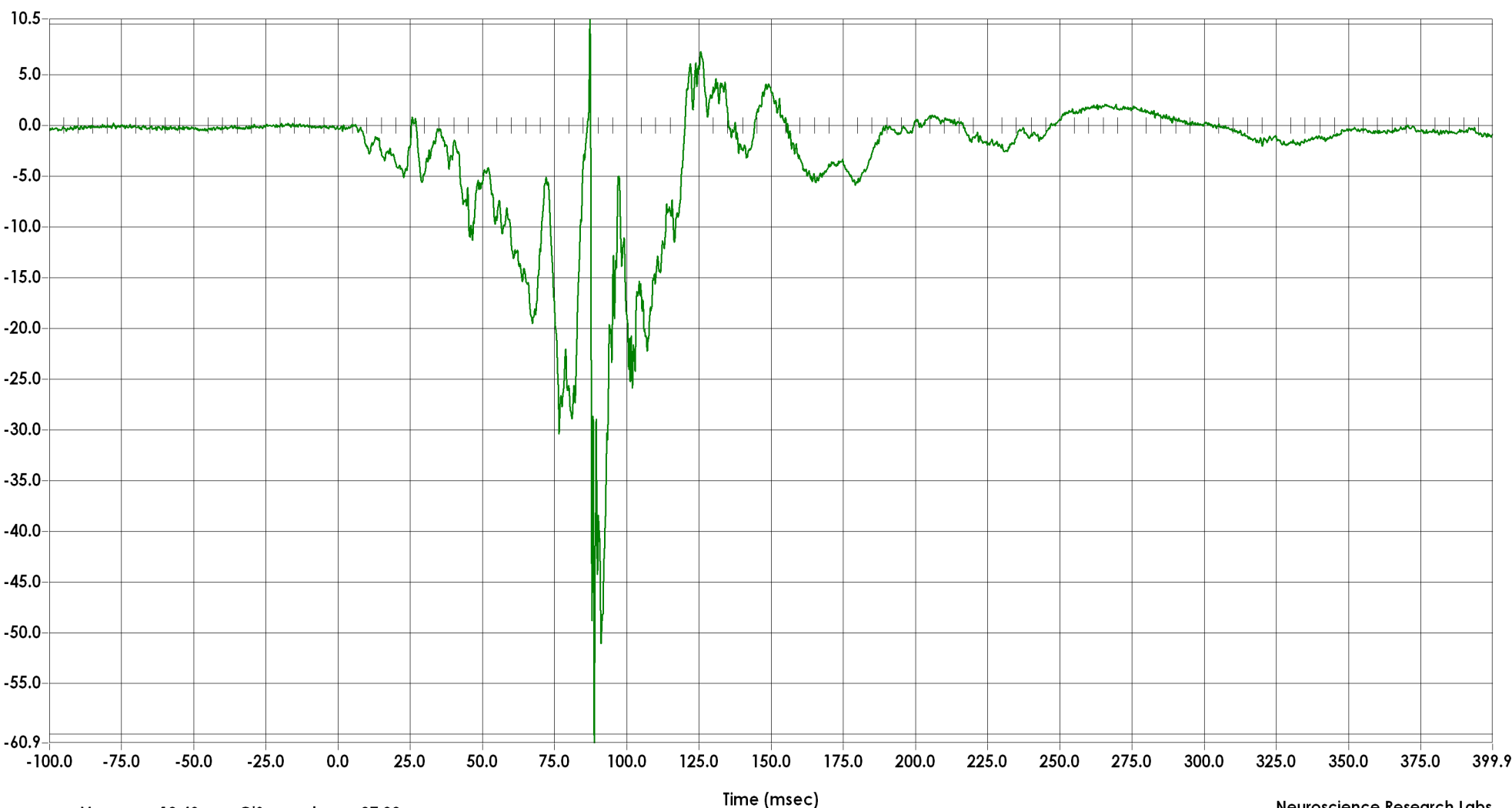
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver right tibia acceleration XL



Max 10.49 G's at 87.20 msec
Min -60.85 G's at 88.72 msec

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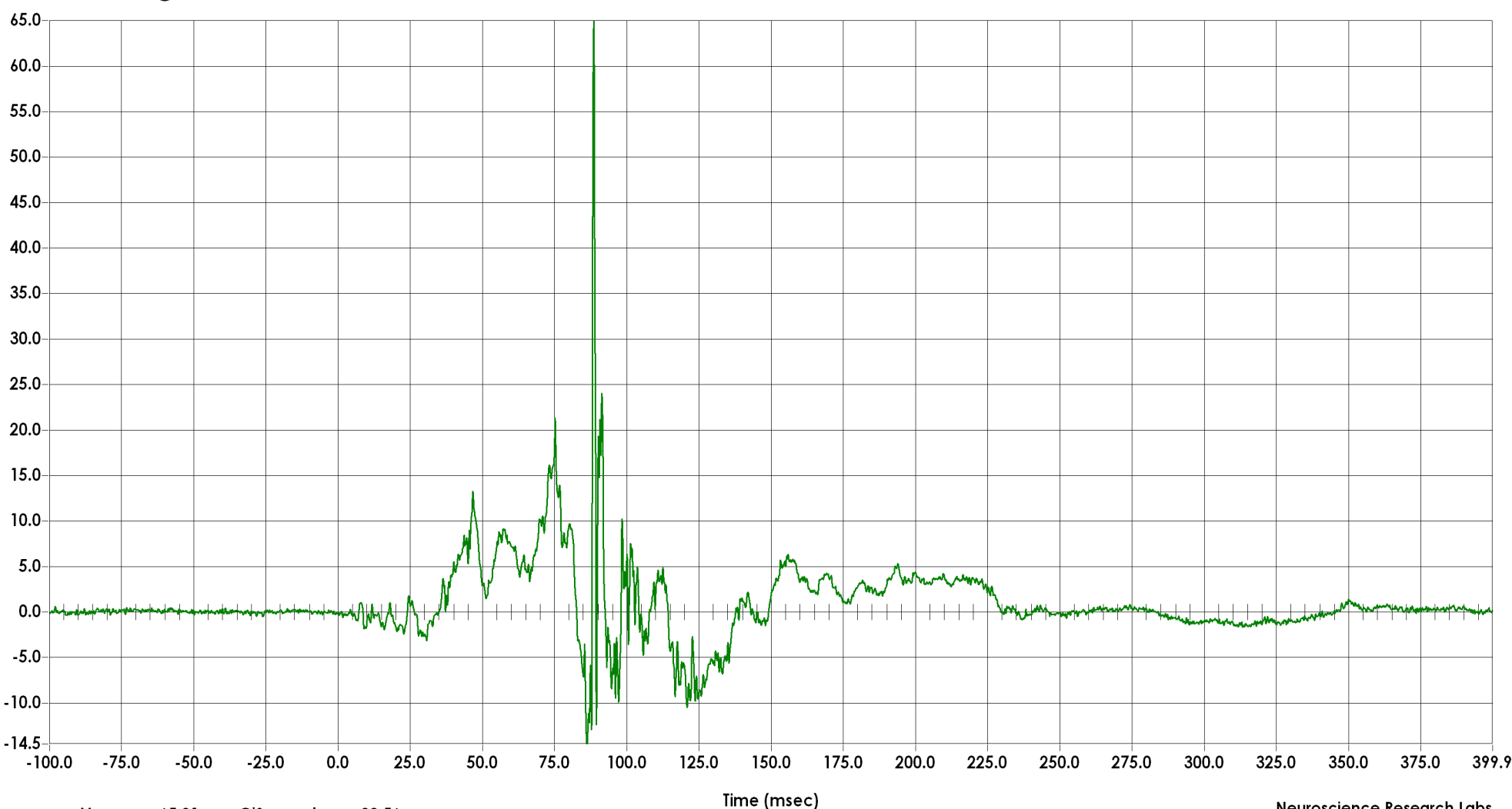
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
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 65.01 G'S at 88.56 msec
Min -14.50 G'S at 86.16 msec

SOI001 Plot 028

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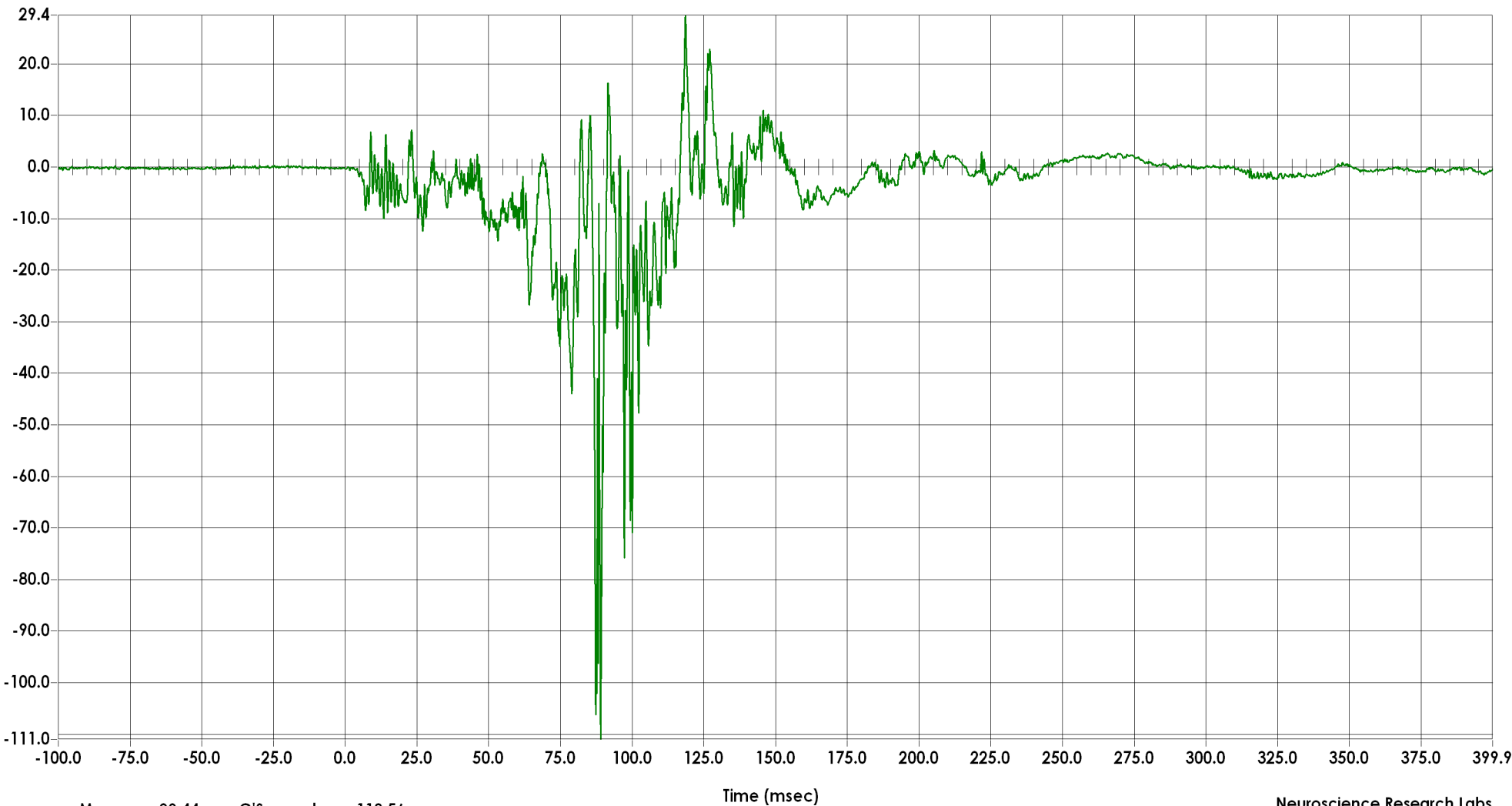
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver right foot acceleration XL



Max 29.44 G'S at 118.56 msec
Min -110.98 G'S at 89.04 msec

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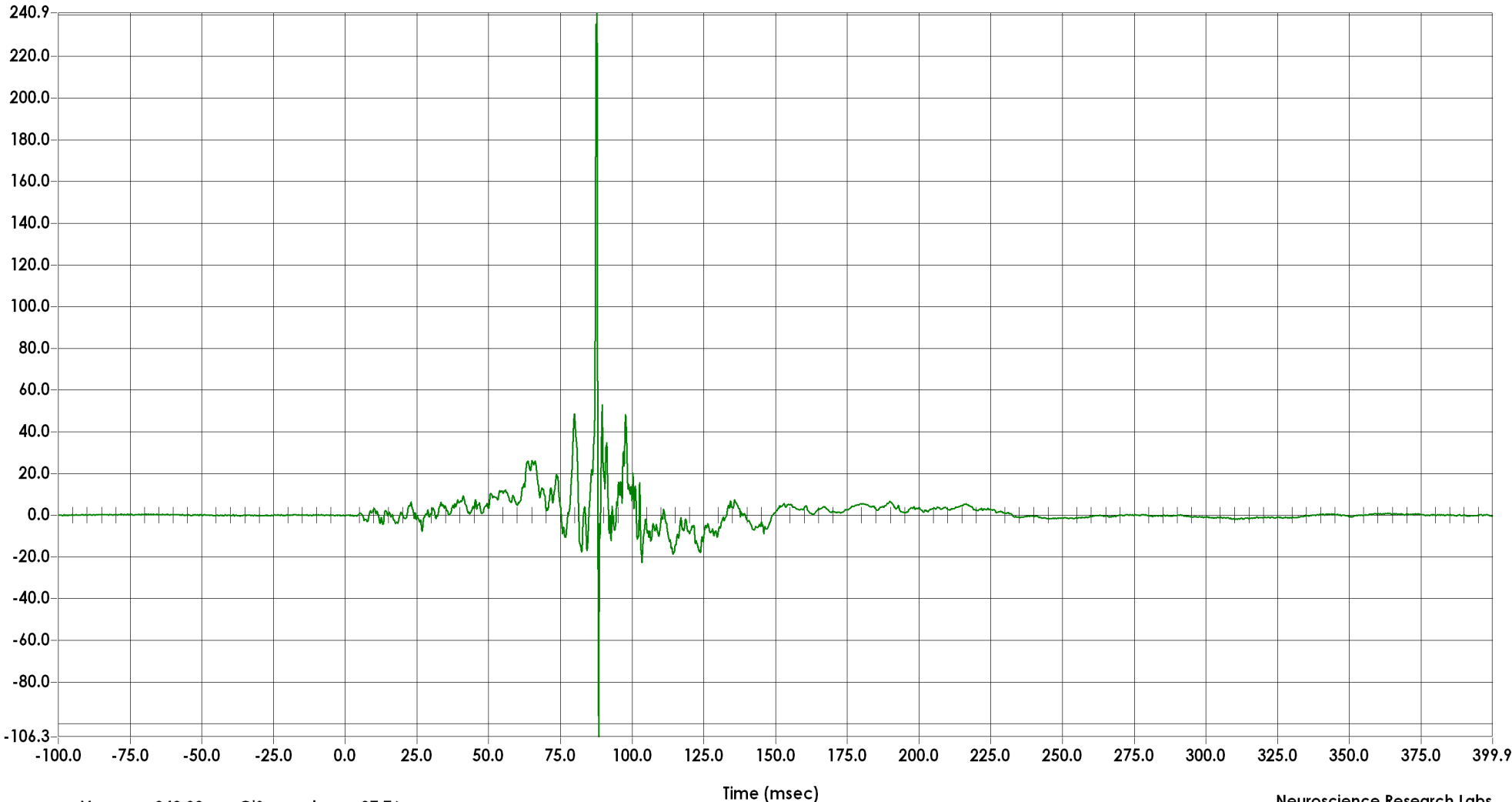
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver right foot acceleration YL



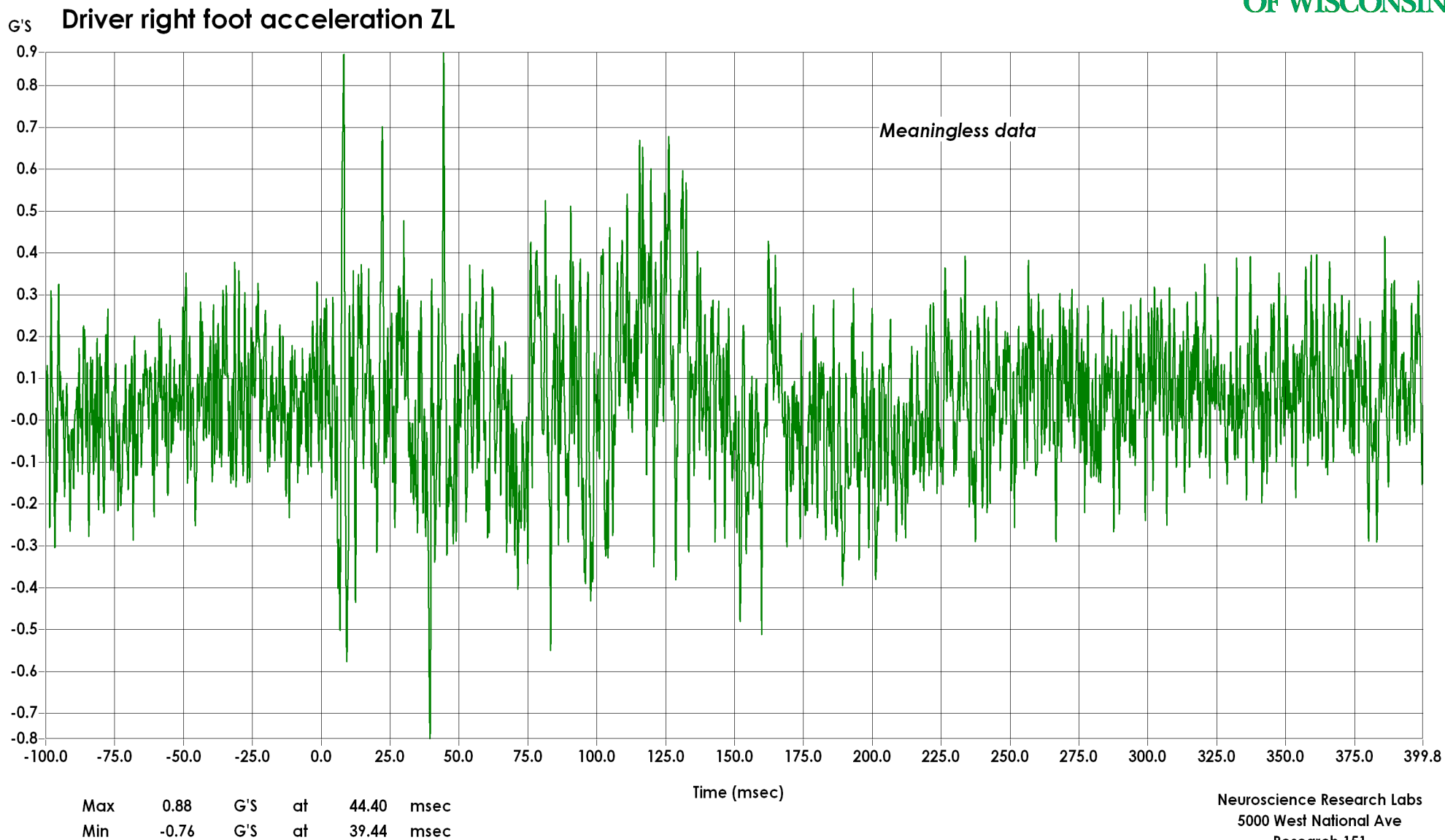
Max 240.90 G'S at 87.76 msec
Min -106.30 G'S at 88.32 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 031

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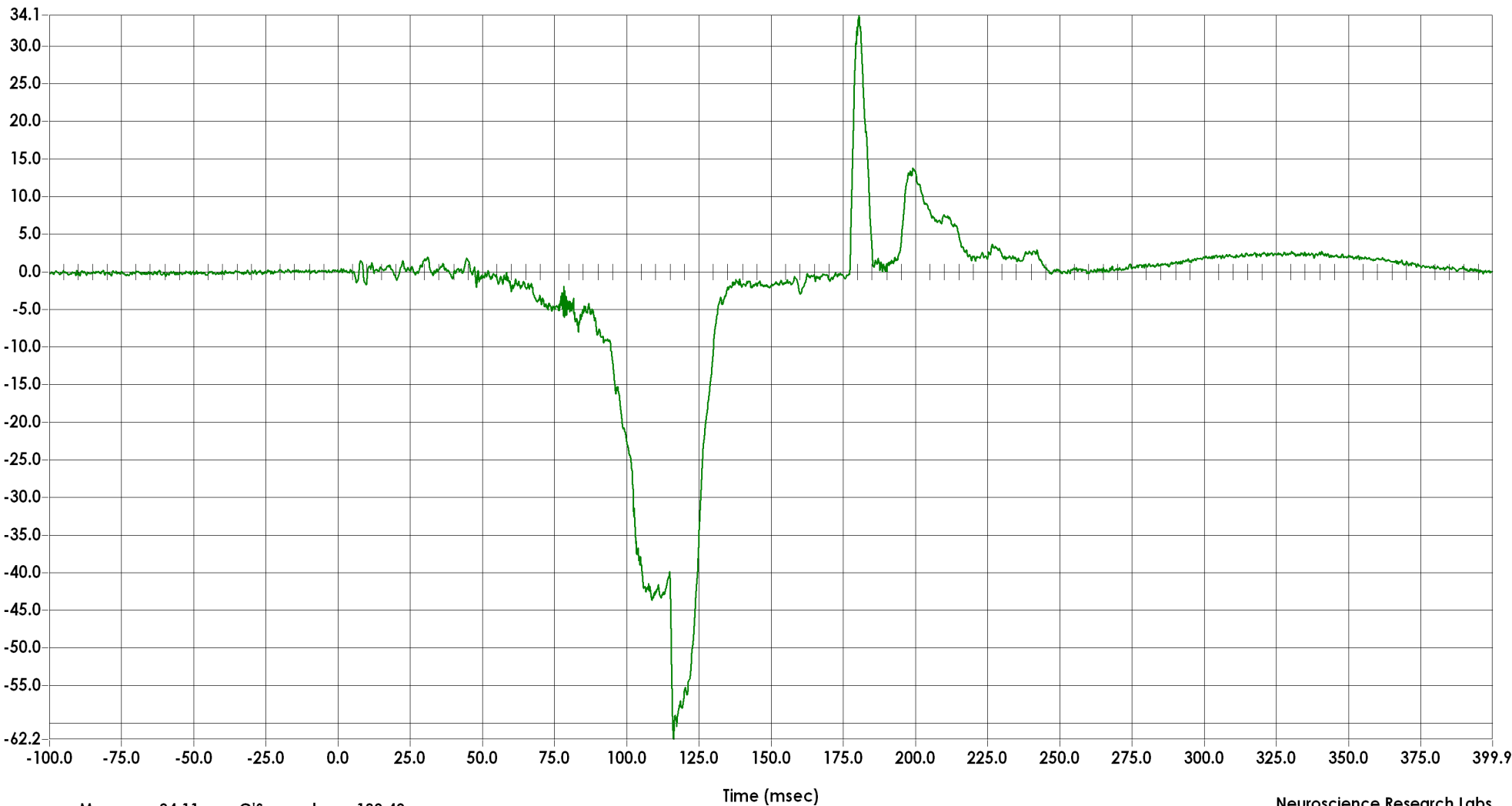
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver head cg acceleration XL



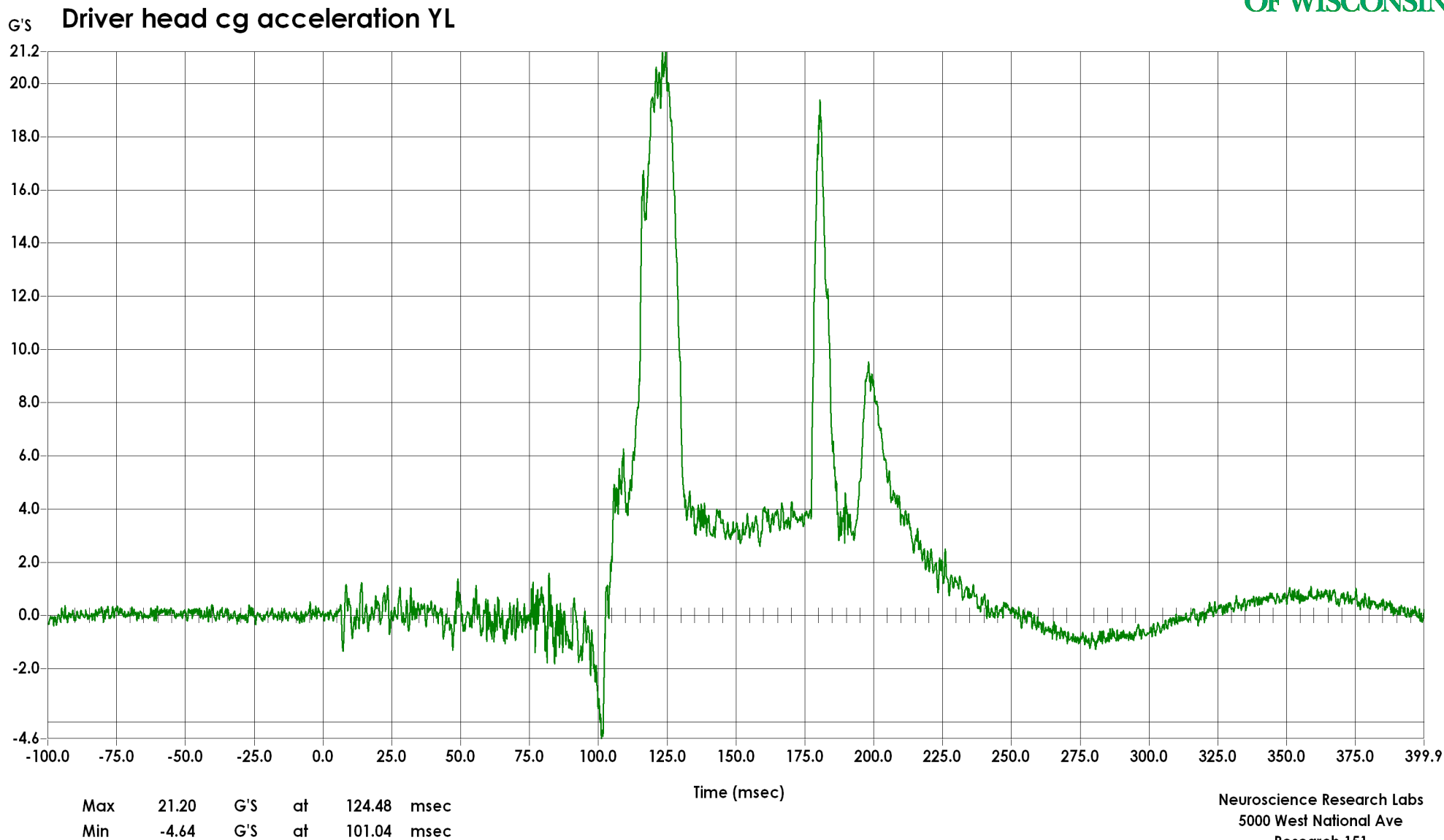
Max 34.11 G'S at 180.40 msec
Min -62.16 G'S at 116.24 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

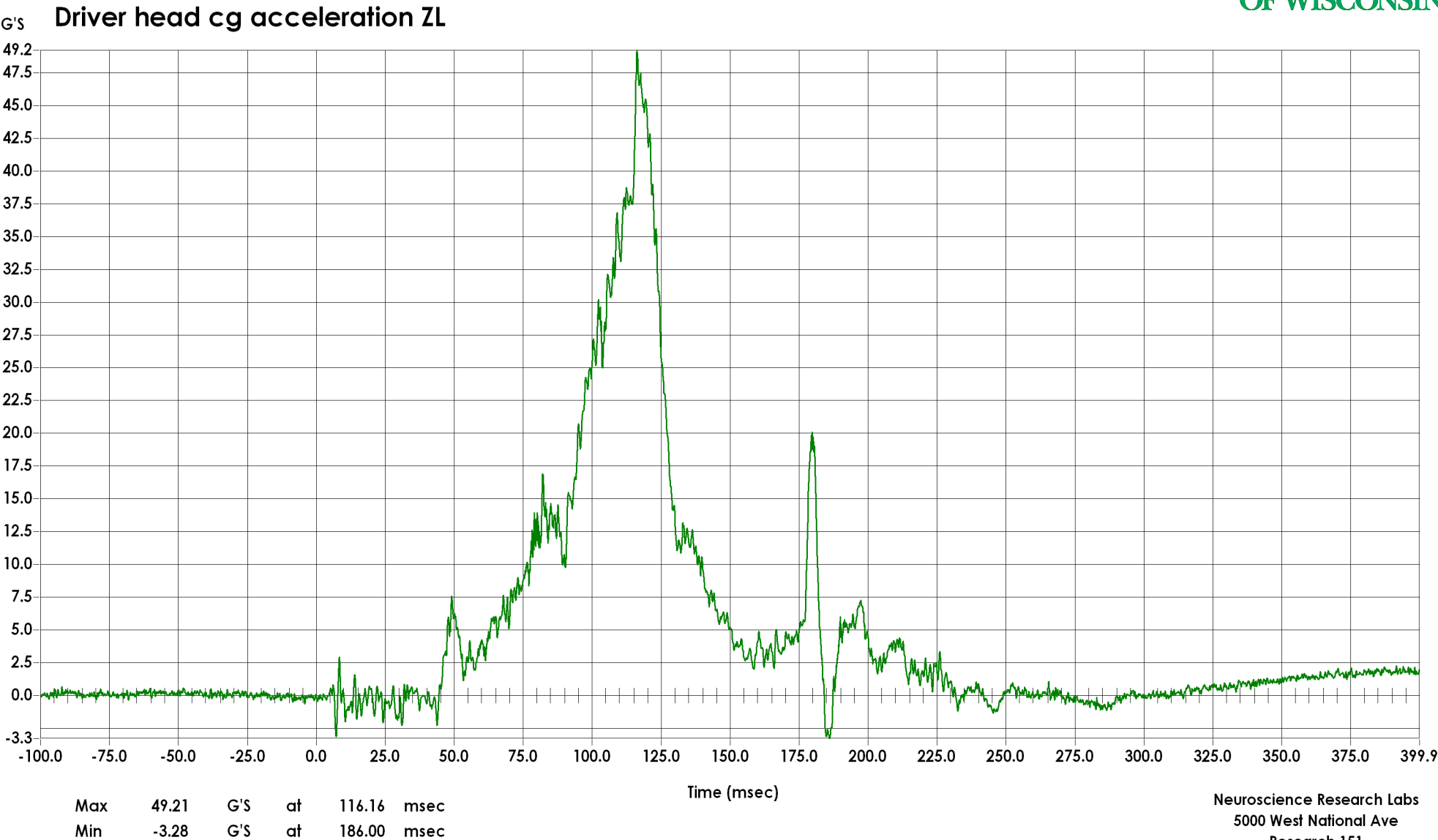
Sensor Location HDCG
Sensor Info ENDEVCO 7264D-2KTZ-2-360
Serial Number 12123



Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 034

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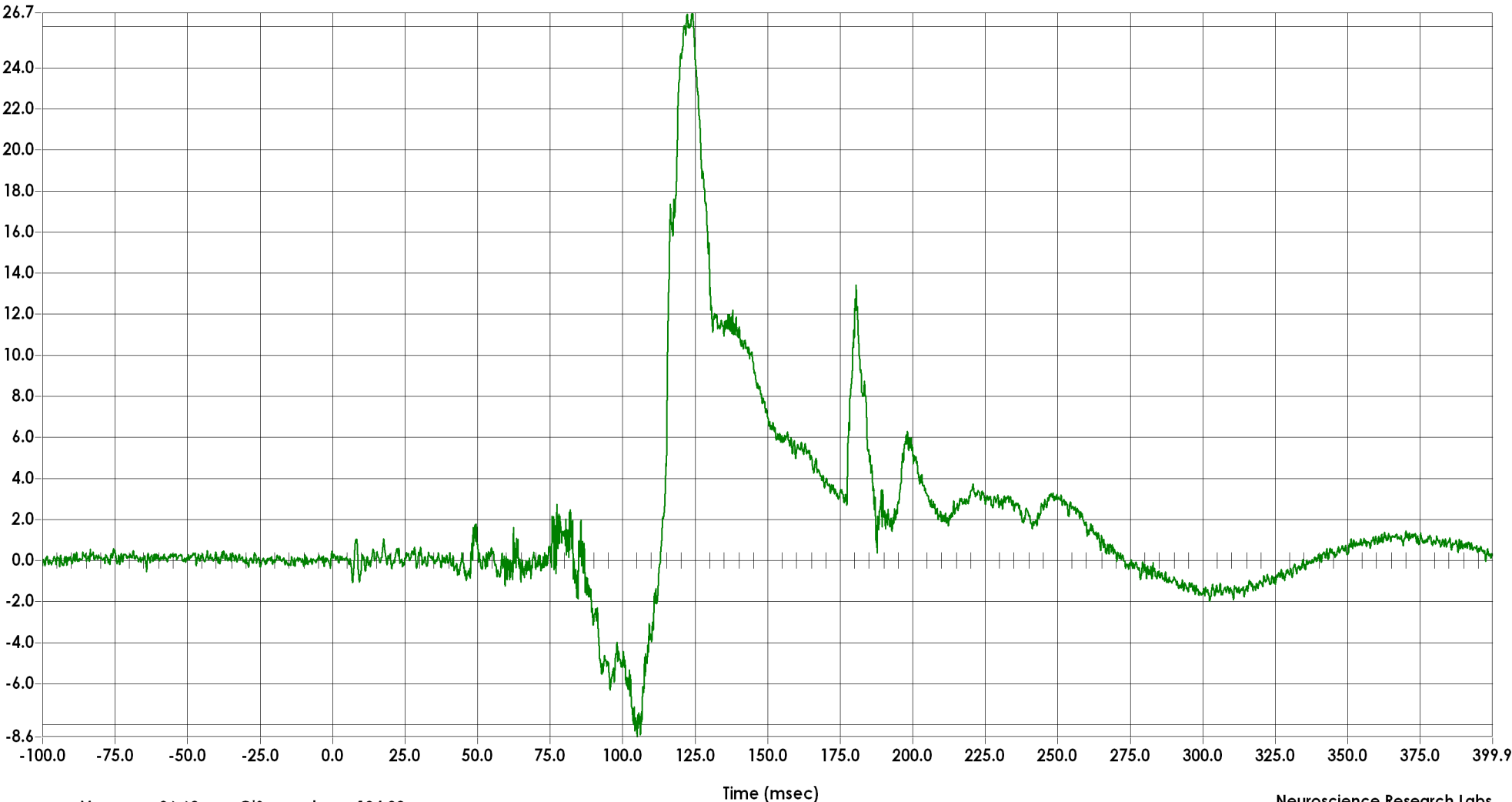
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver internal nap x arm y face YL



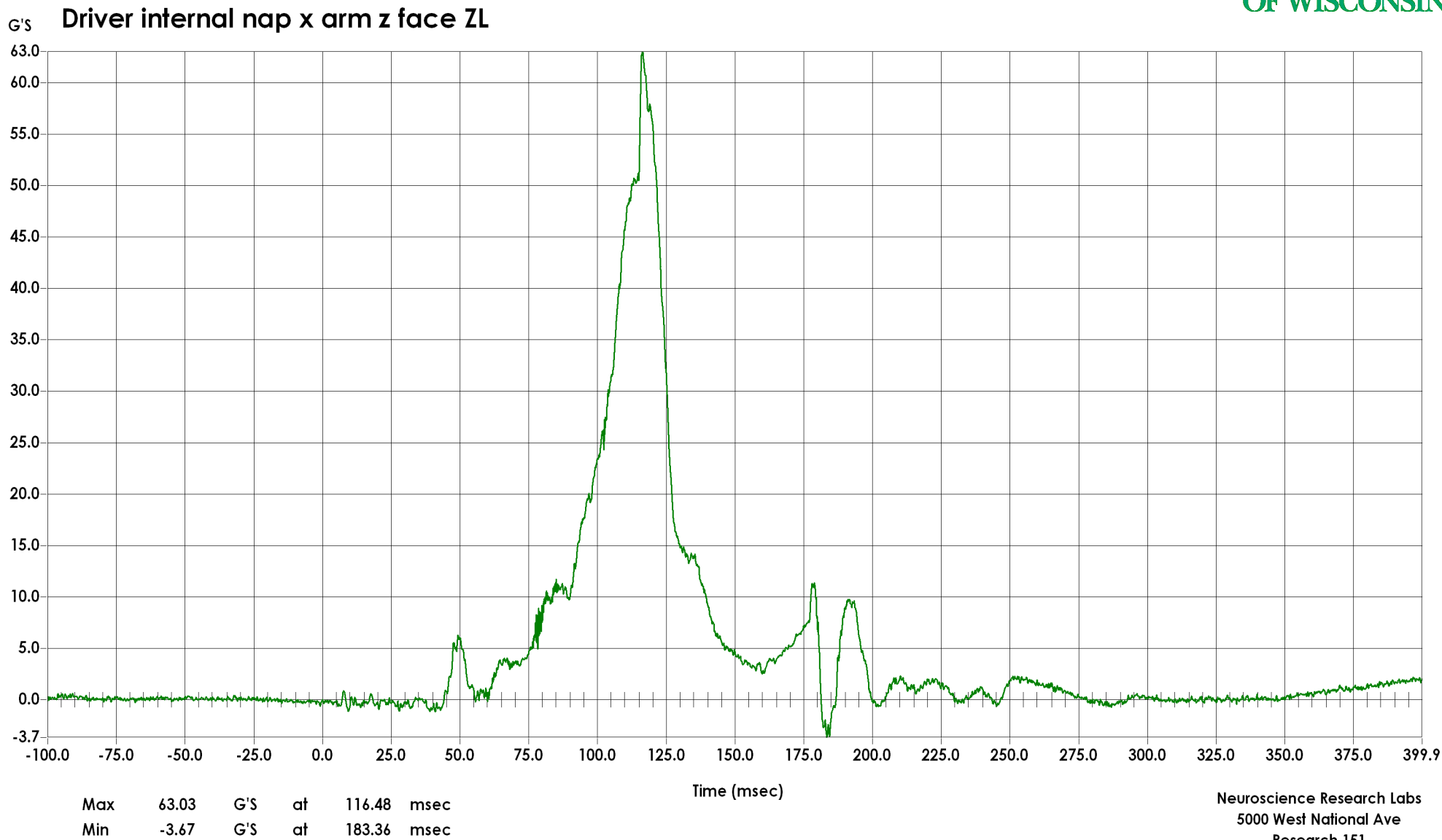
Max 26.68 G'S at 124.08 msec
Min -8.60 G'S at 104.96 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 036

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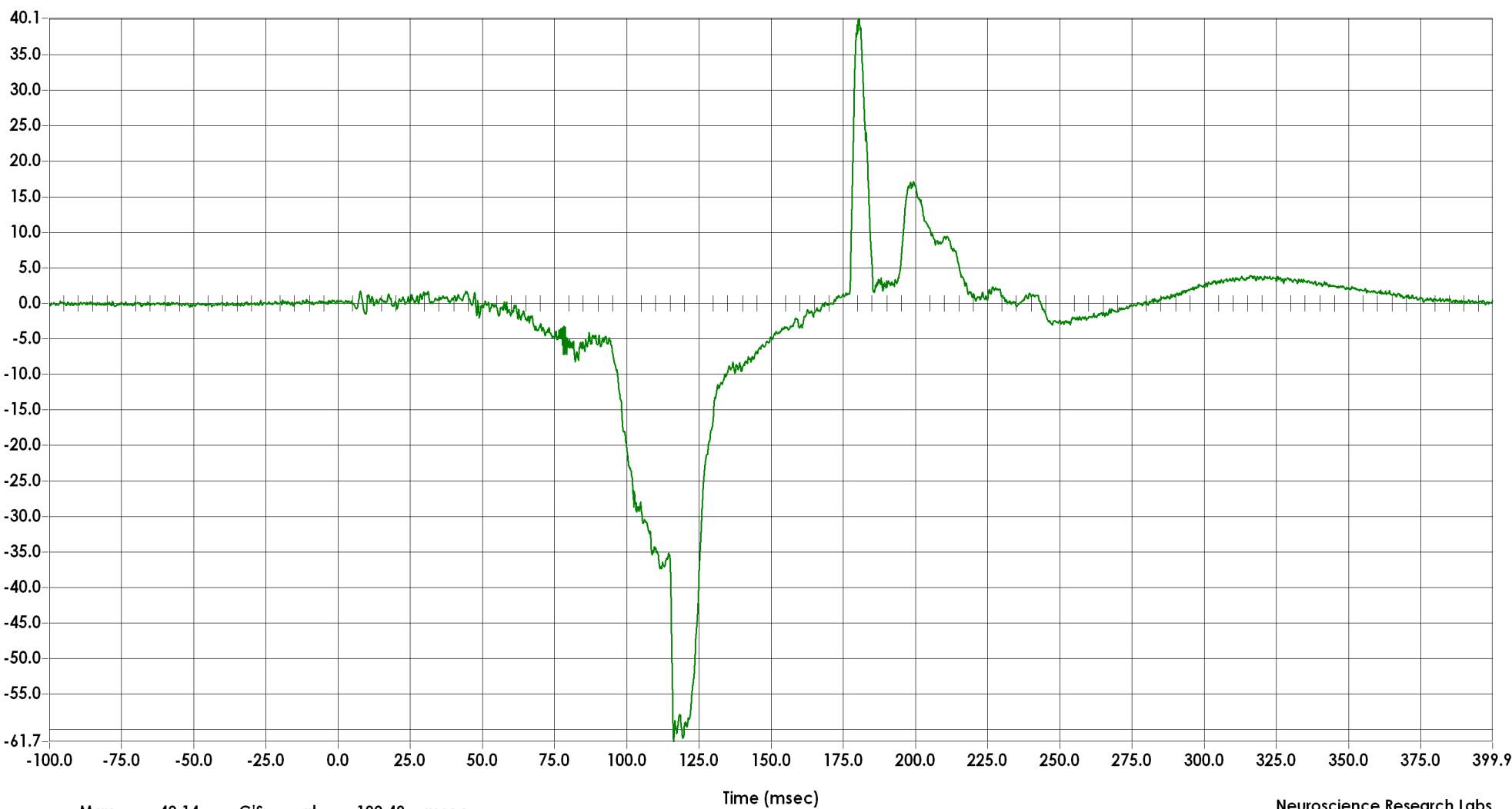
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
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



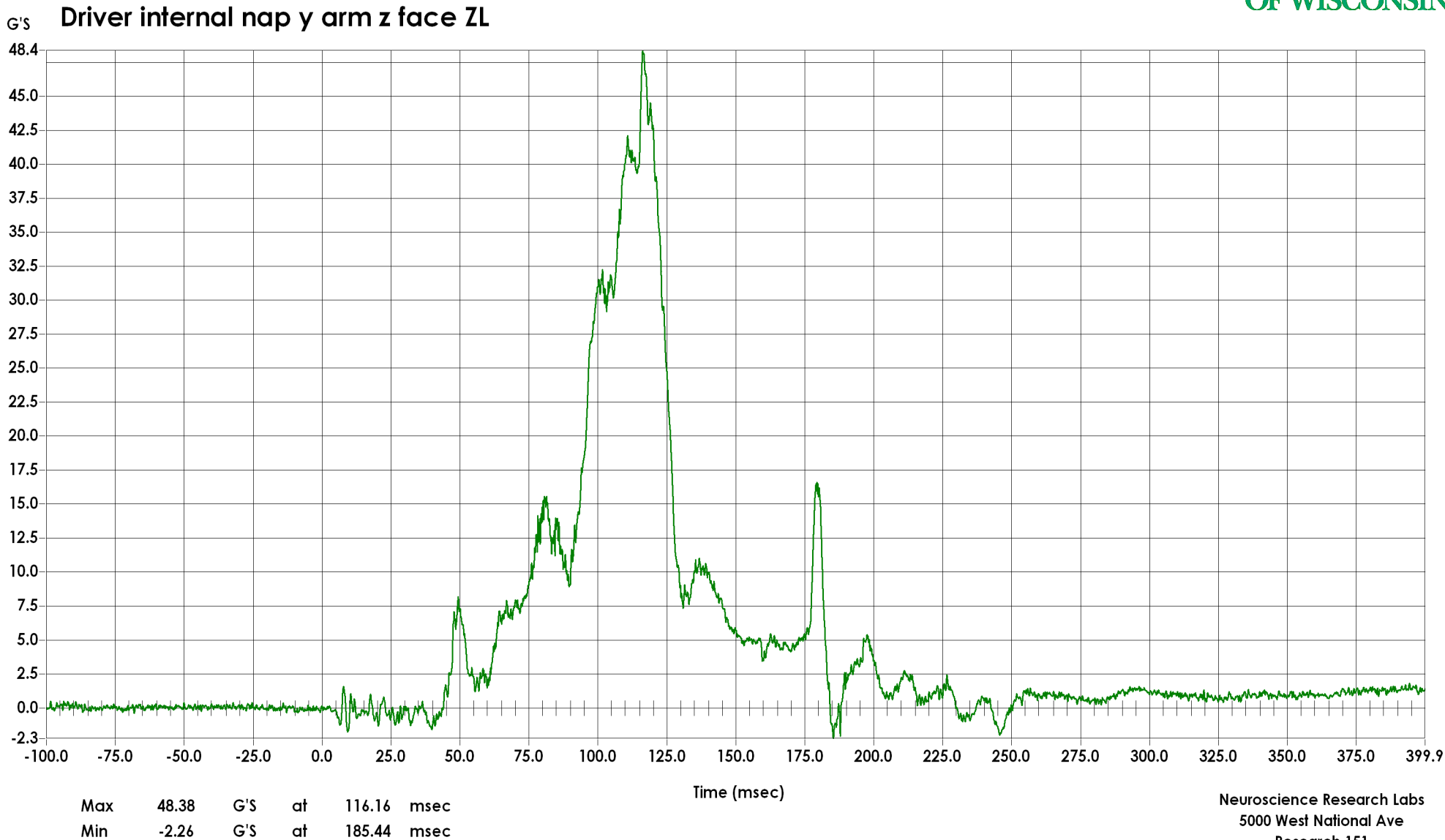
Max 40.14 G'S at 180.48 msec
Min -61.71 G'S at 116.24 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



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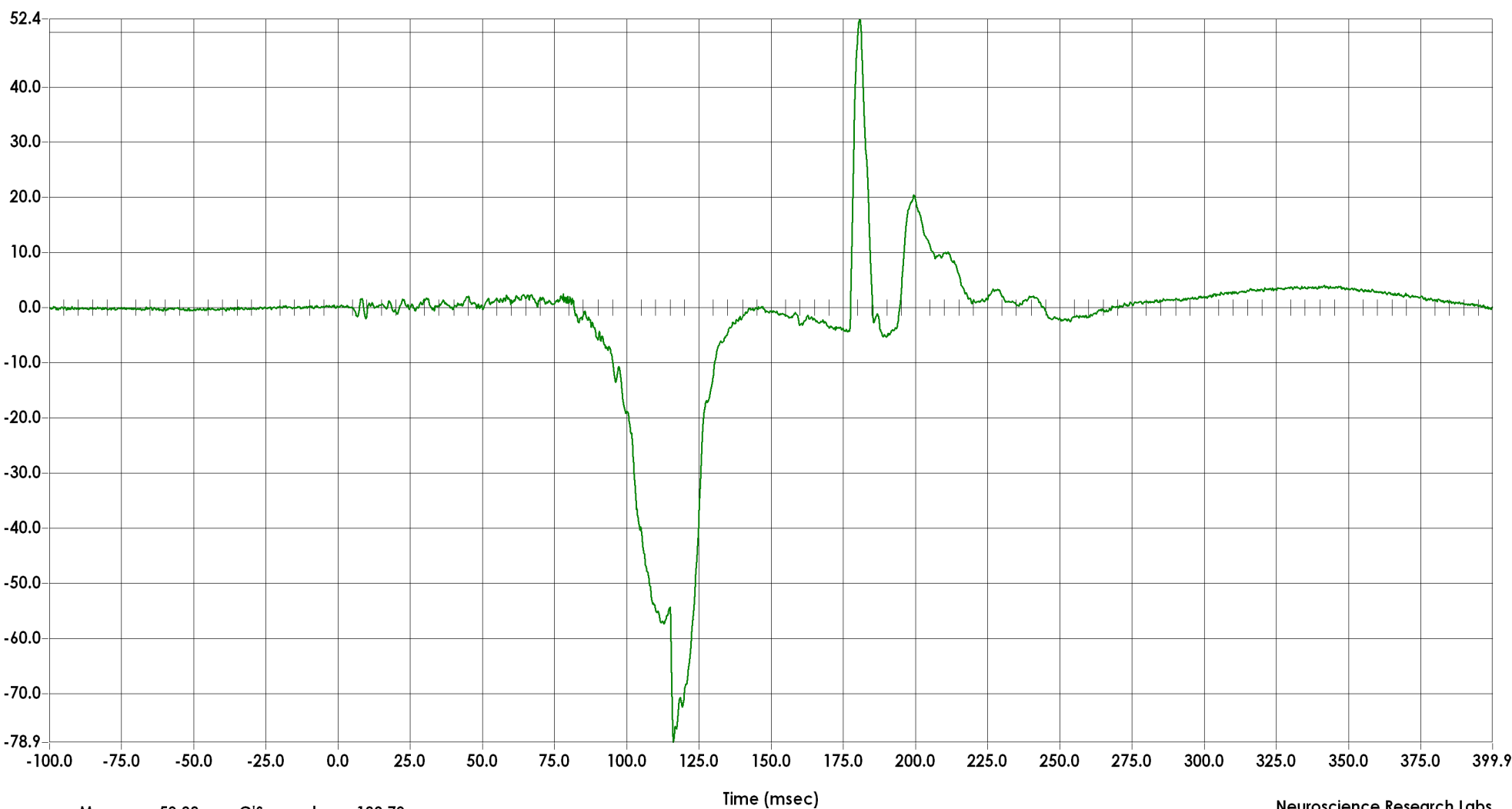
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
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



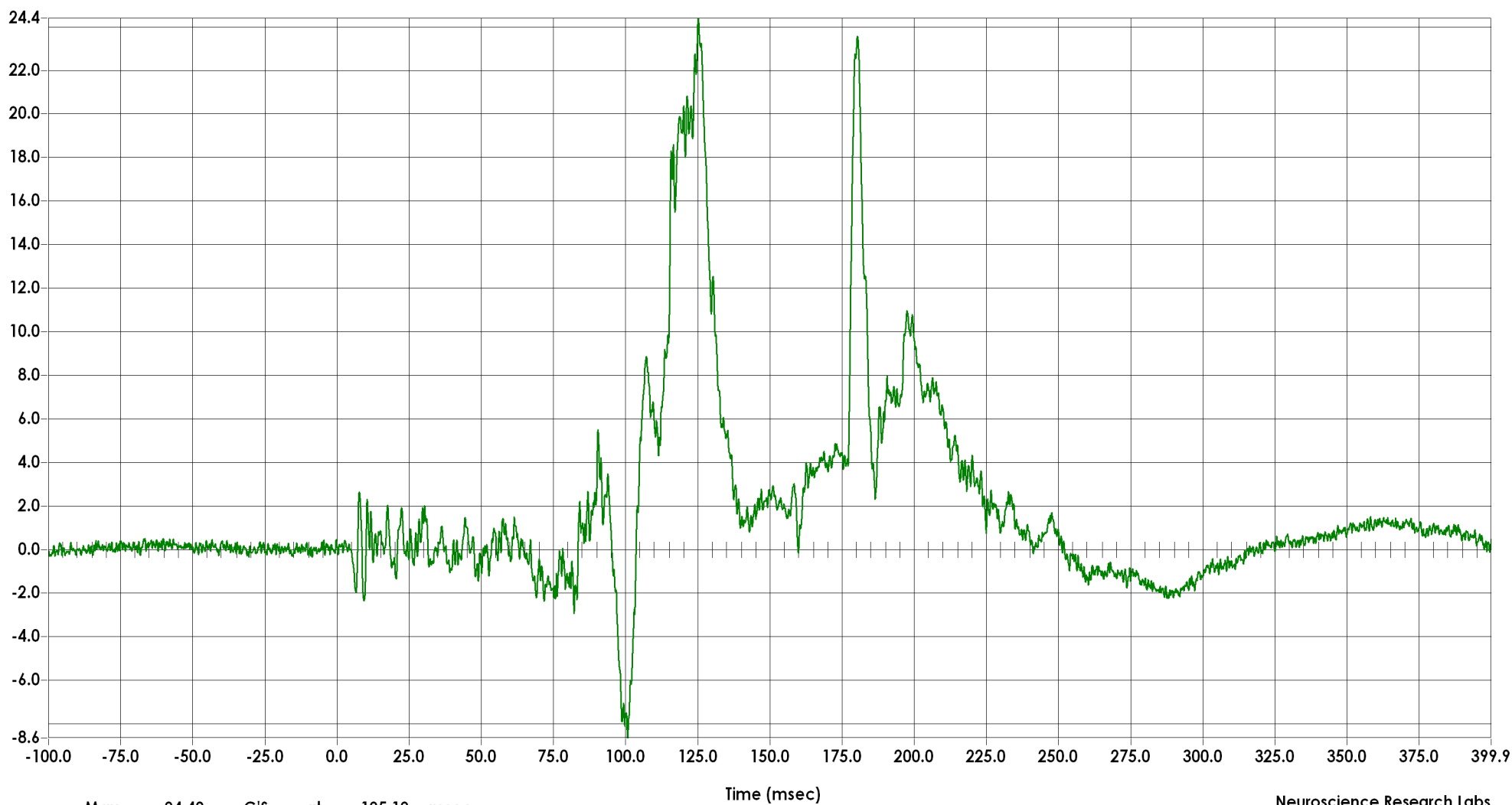
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
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



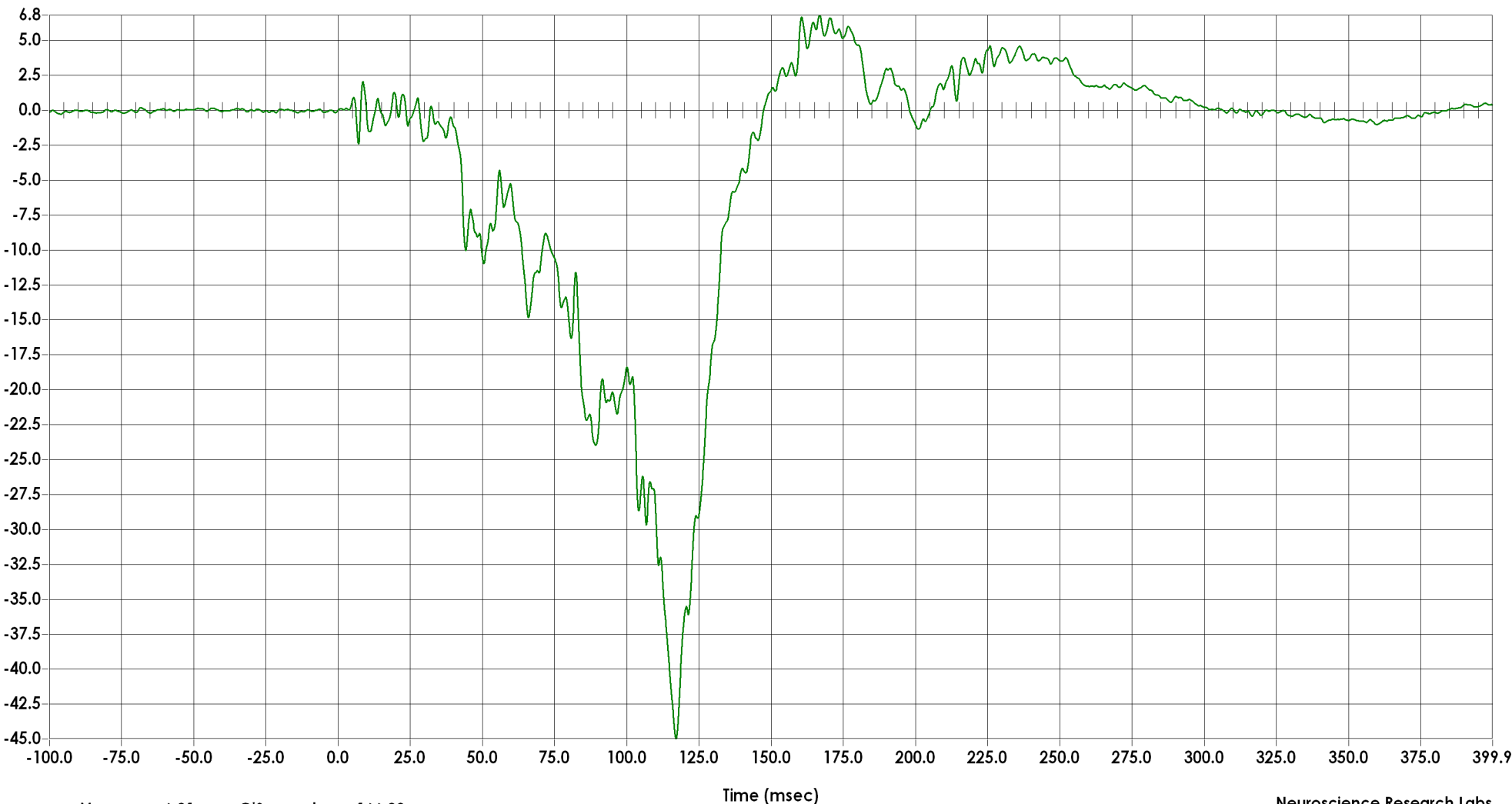
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver t1 acceleration XL



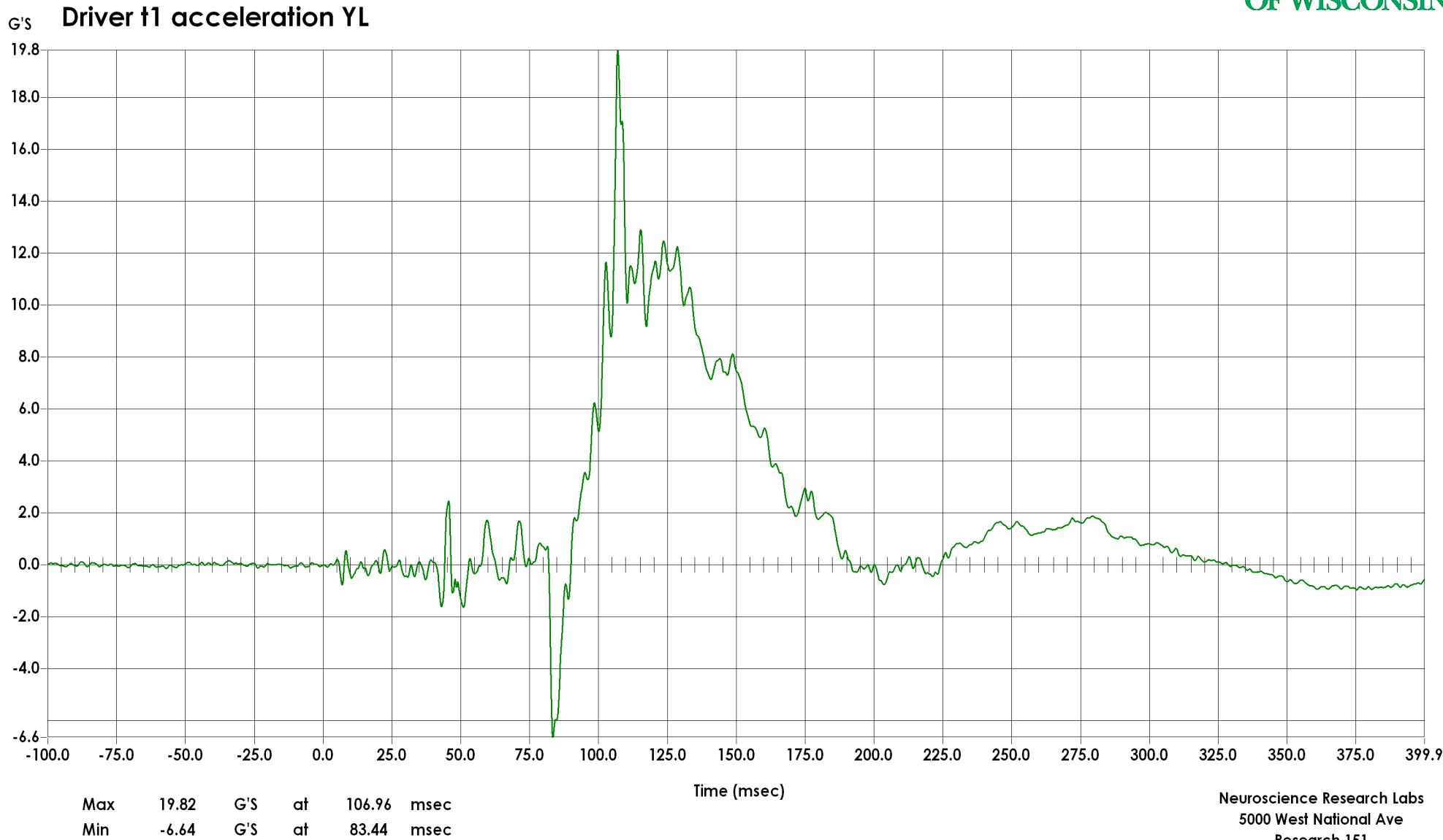
Max 6.81 G'S at 166.80 msec
Min -44.99 G'S at 117.12 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



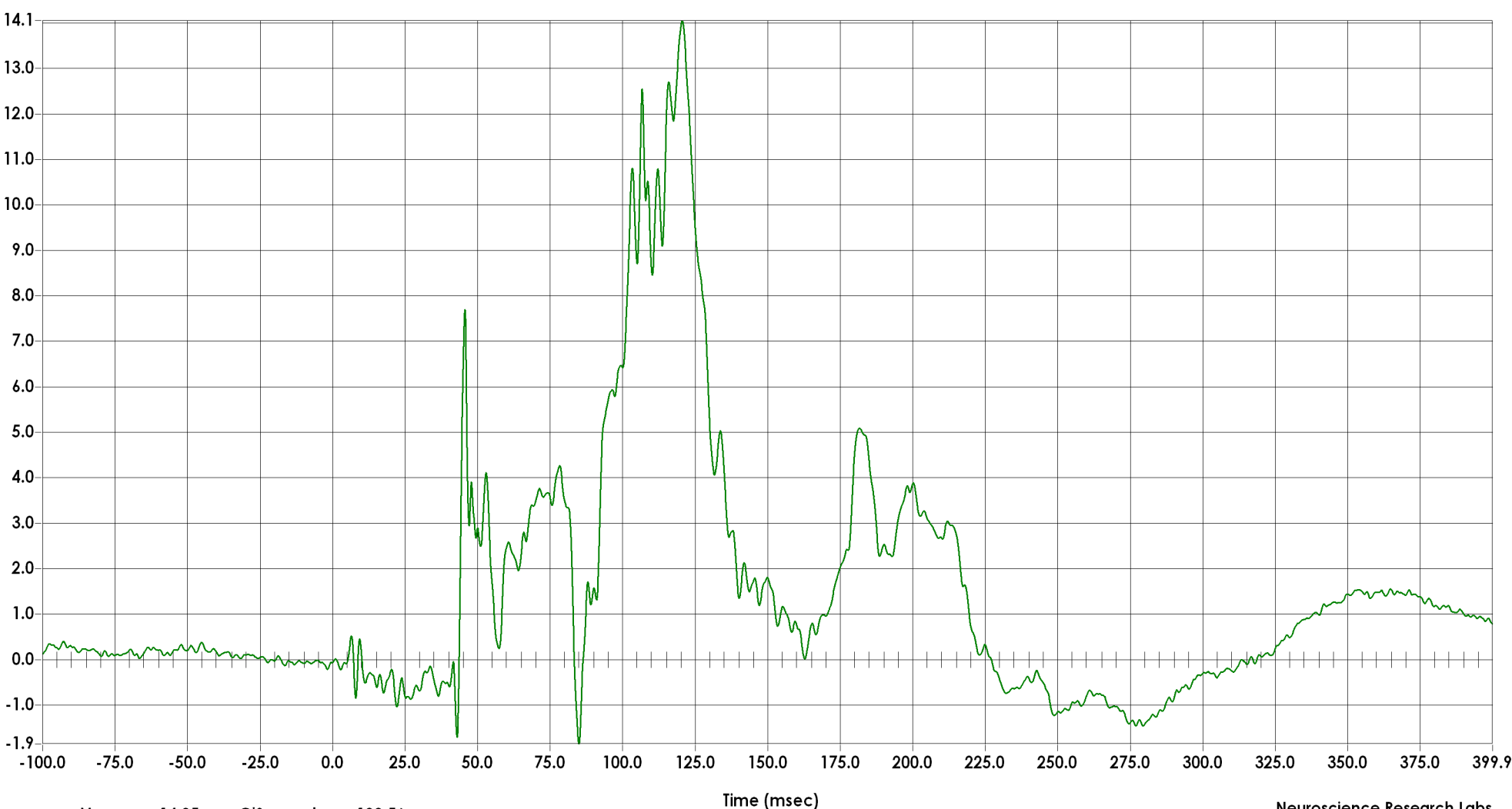
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver t1 acceleration ZL



Max 14.05 G'S at 120.56 msec
Min -1.86 G'S at 84.96 msec

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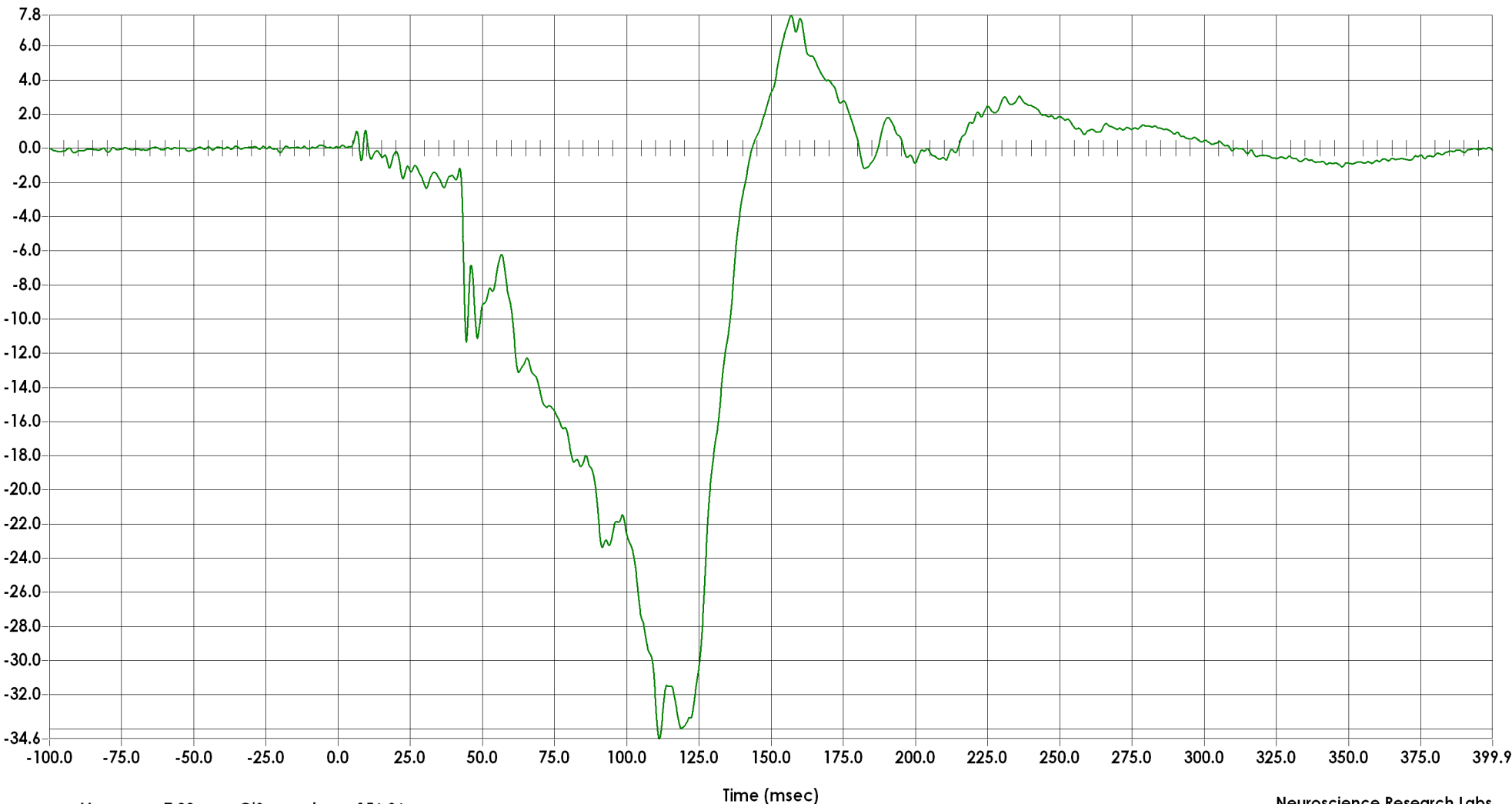
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver t4 acceleration XL



Max 7.80 G'S at 156.96 msec
Min -34.59 G'S at 111.28 msec

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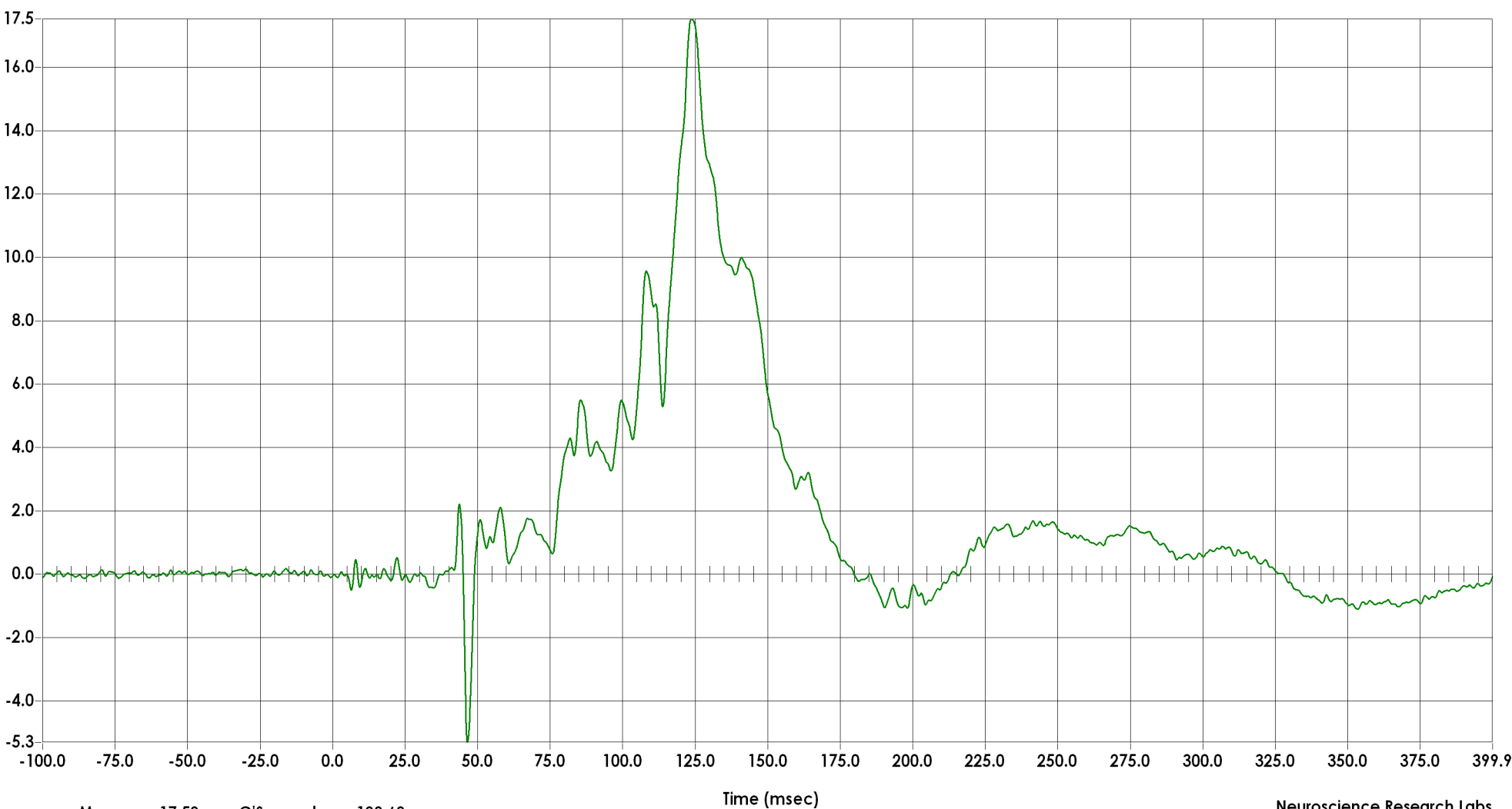
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver t4 acceleration YL



Max 17.52 G'S at 123.68 msec
Min -5.31 G'S at 46.48 msec

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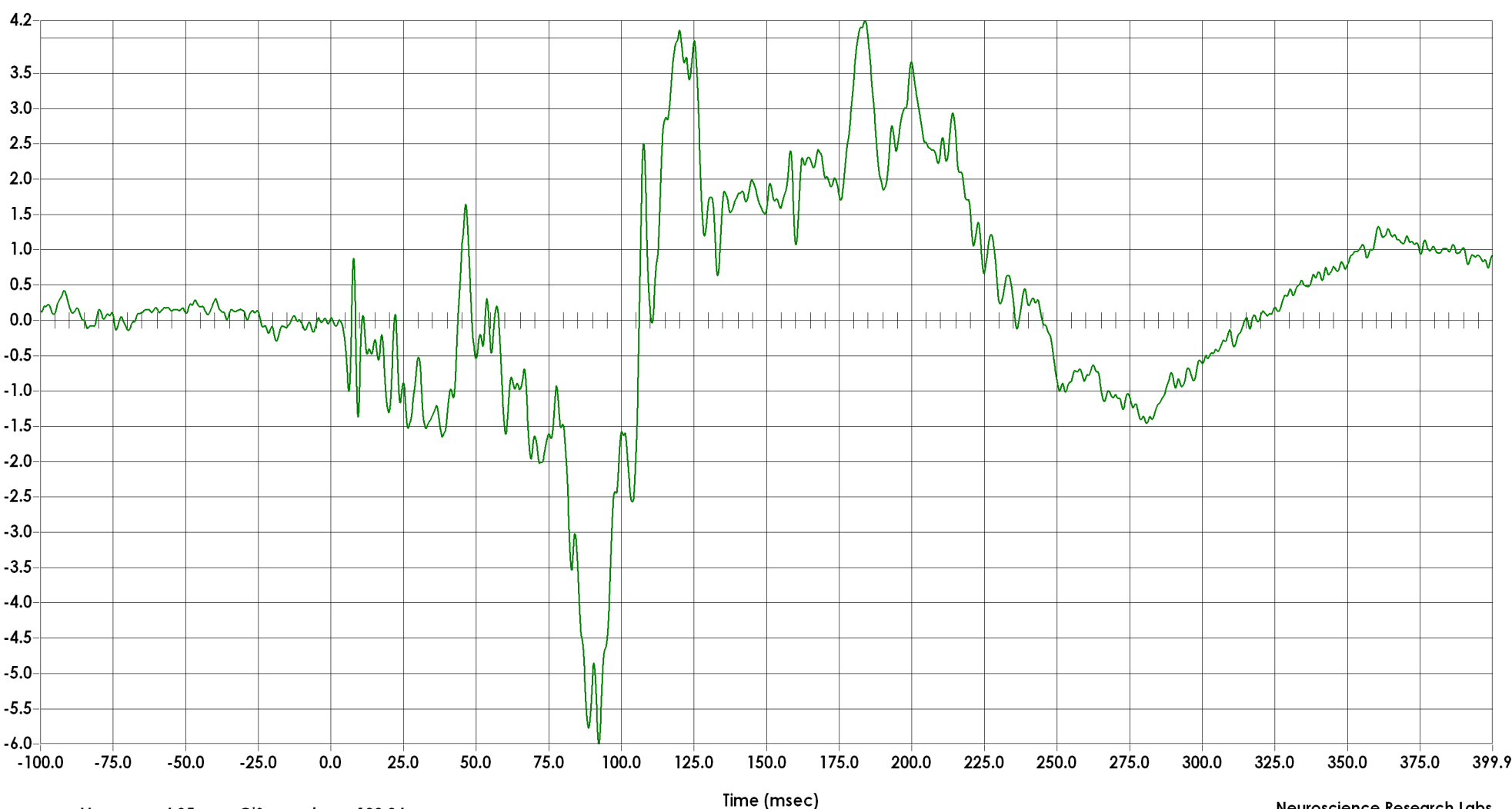
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver t4 acceleration ZL



Max 4.25 G'S at 183.84 msec
Min -6.00 G'S at 92.16 msec

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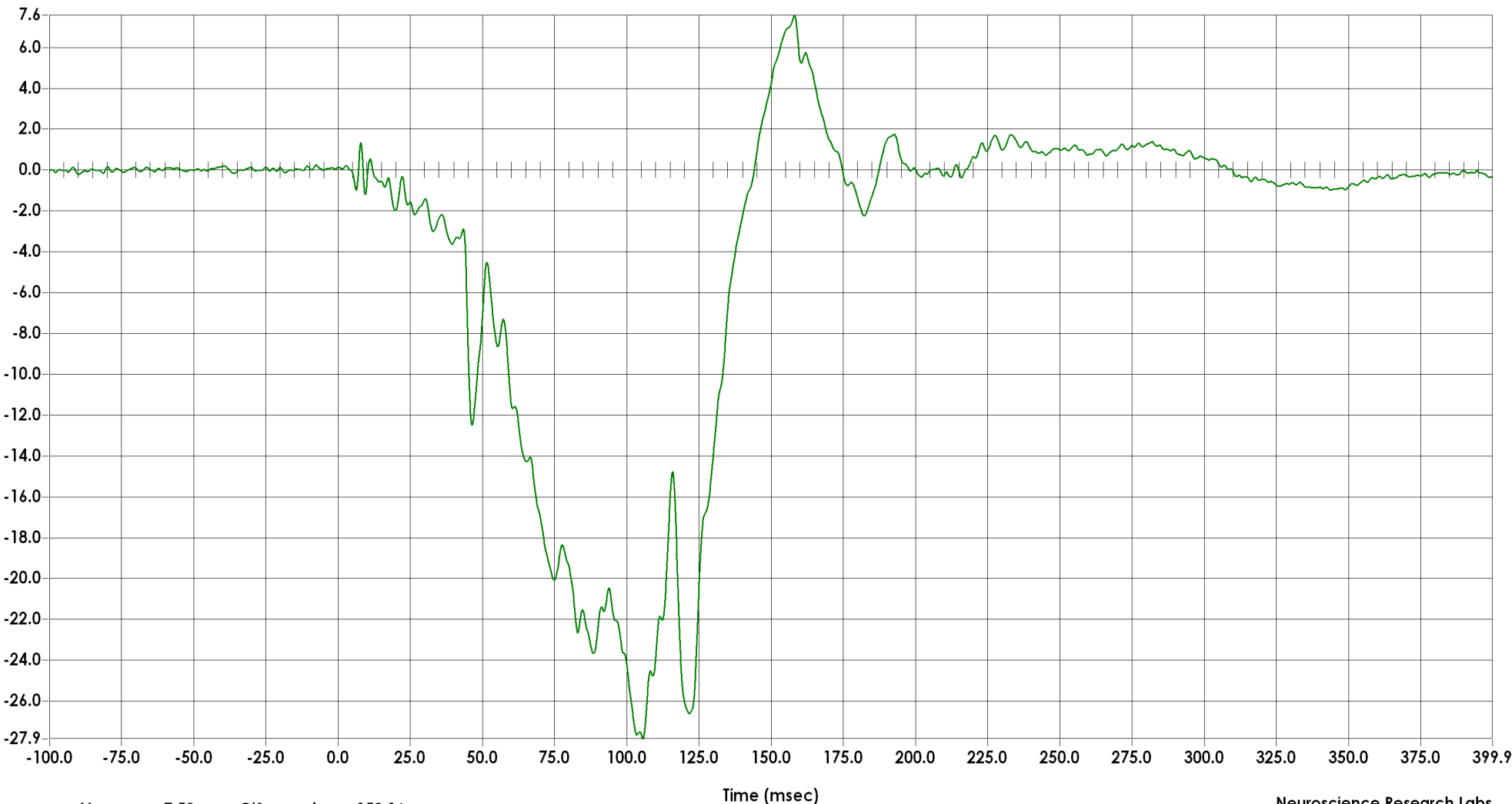
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver t12 acceleration XL



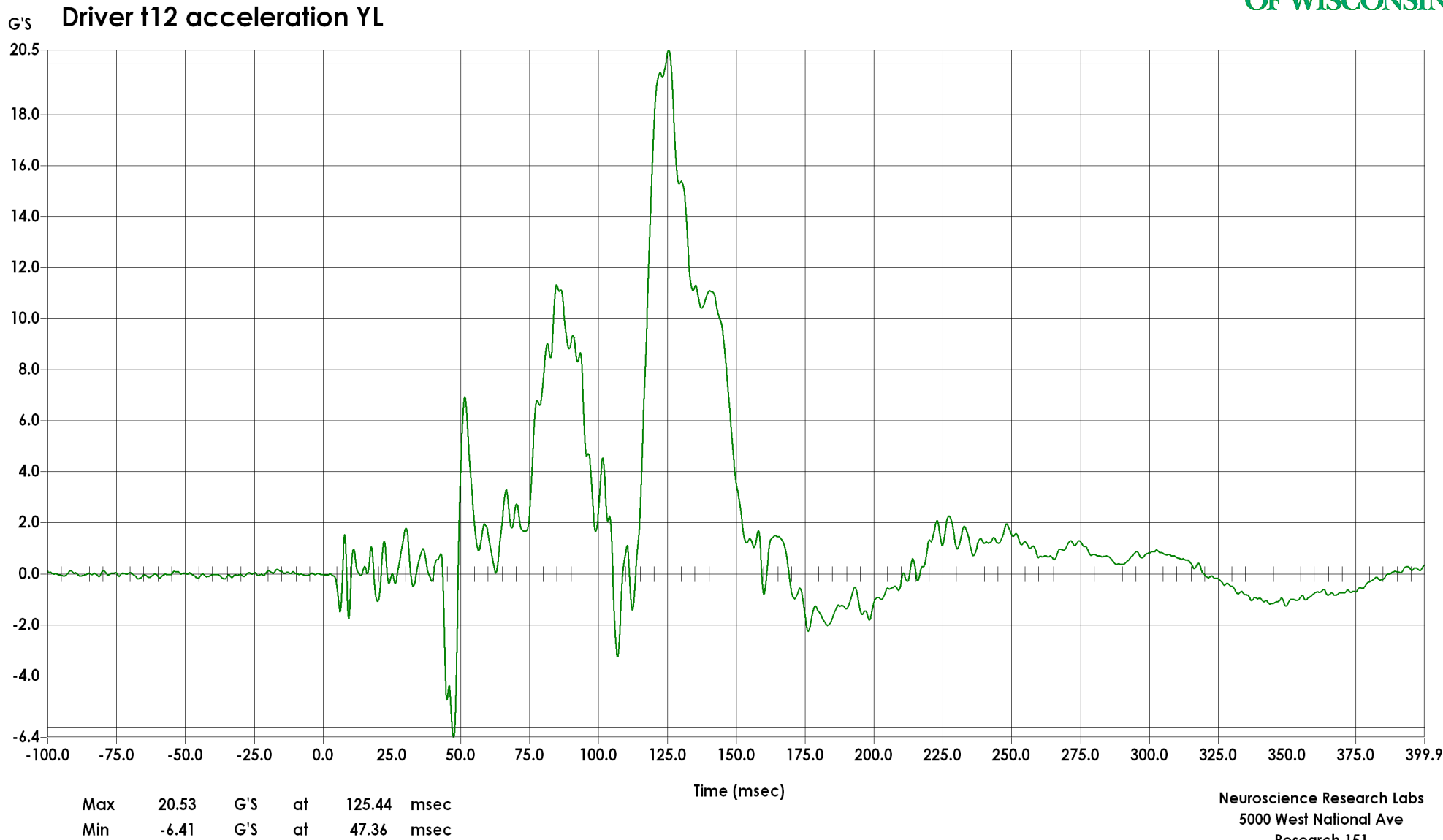
Max 7.58 G'S at 158.16 msec
Min -27.85 G'S at 105.60 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



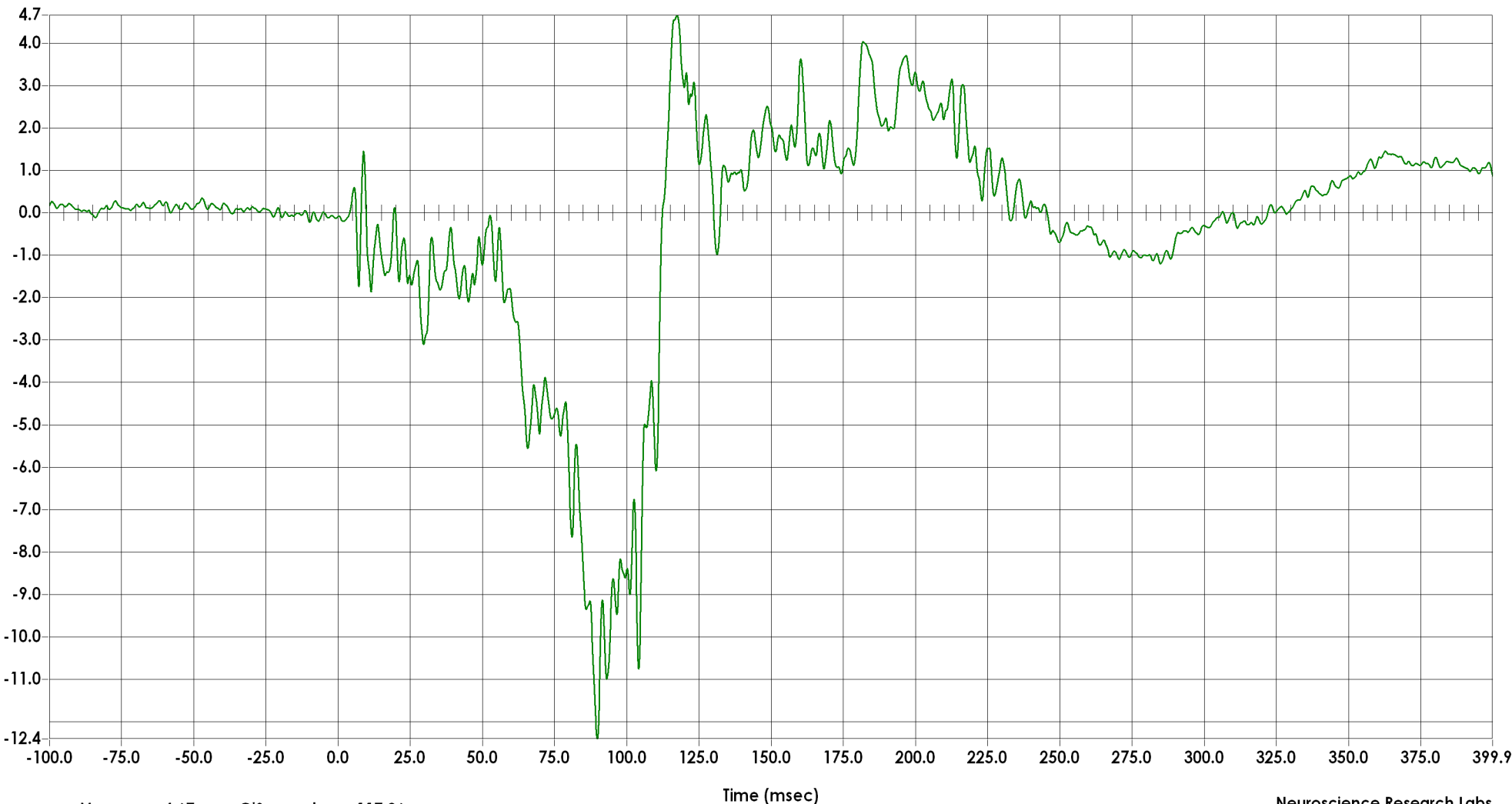
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver t12 acceleration ZL



Max 4.67 G'S at 117.36 msec
Min -12.41 G'S at 89.76 msec

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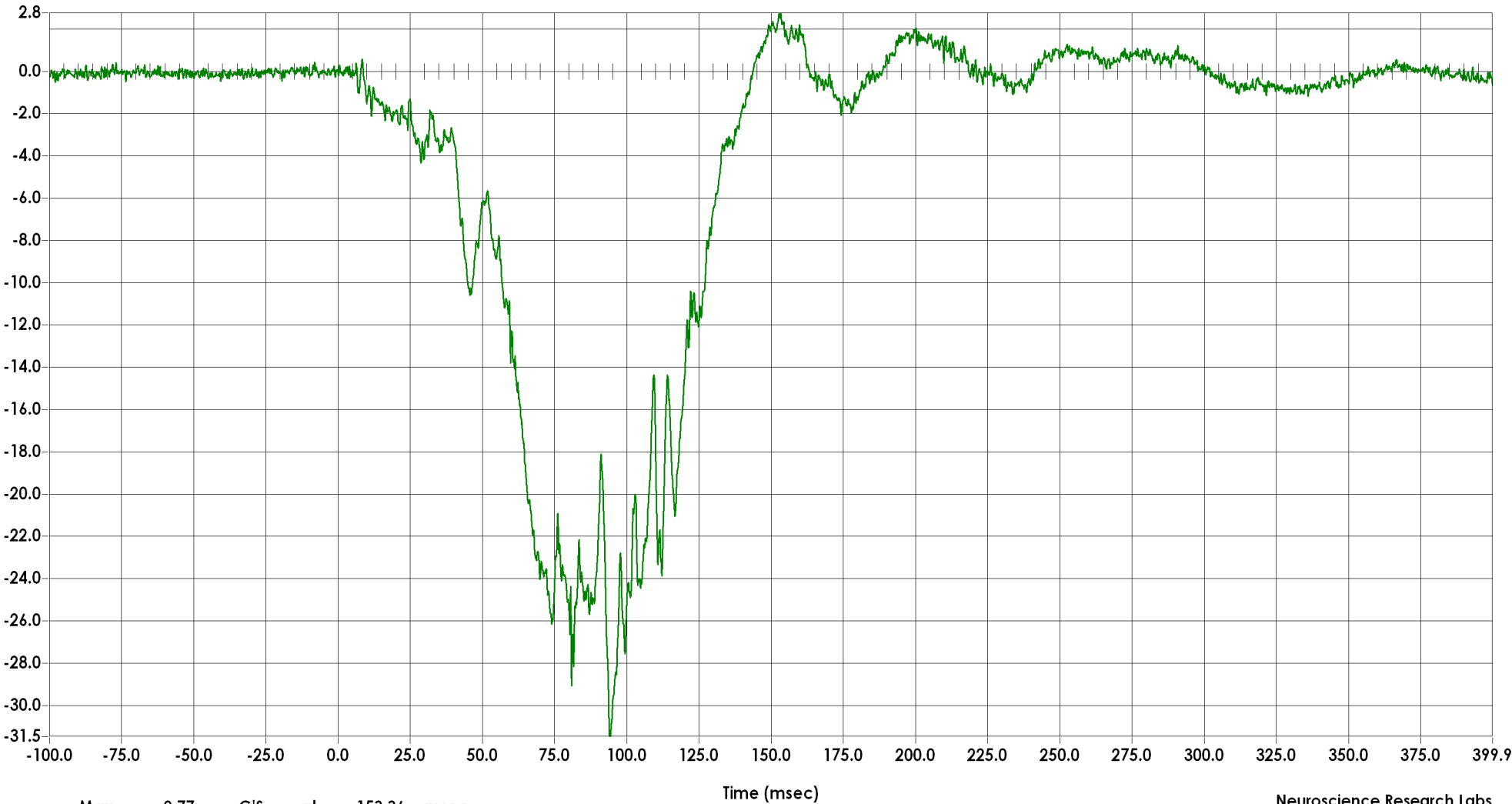
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver pelvis acceleration XL



Max 2.77 G'S at 153.36 msec
Min -31.48 G'S at 94.00 msec

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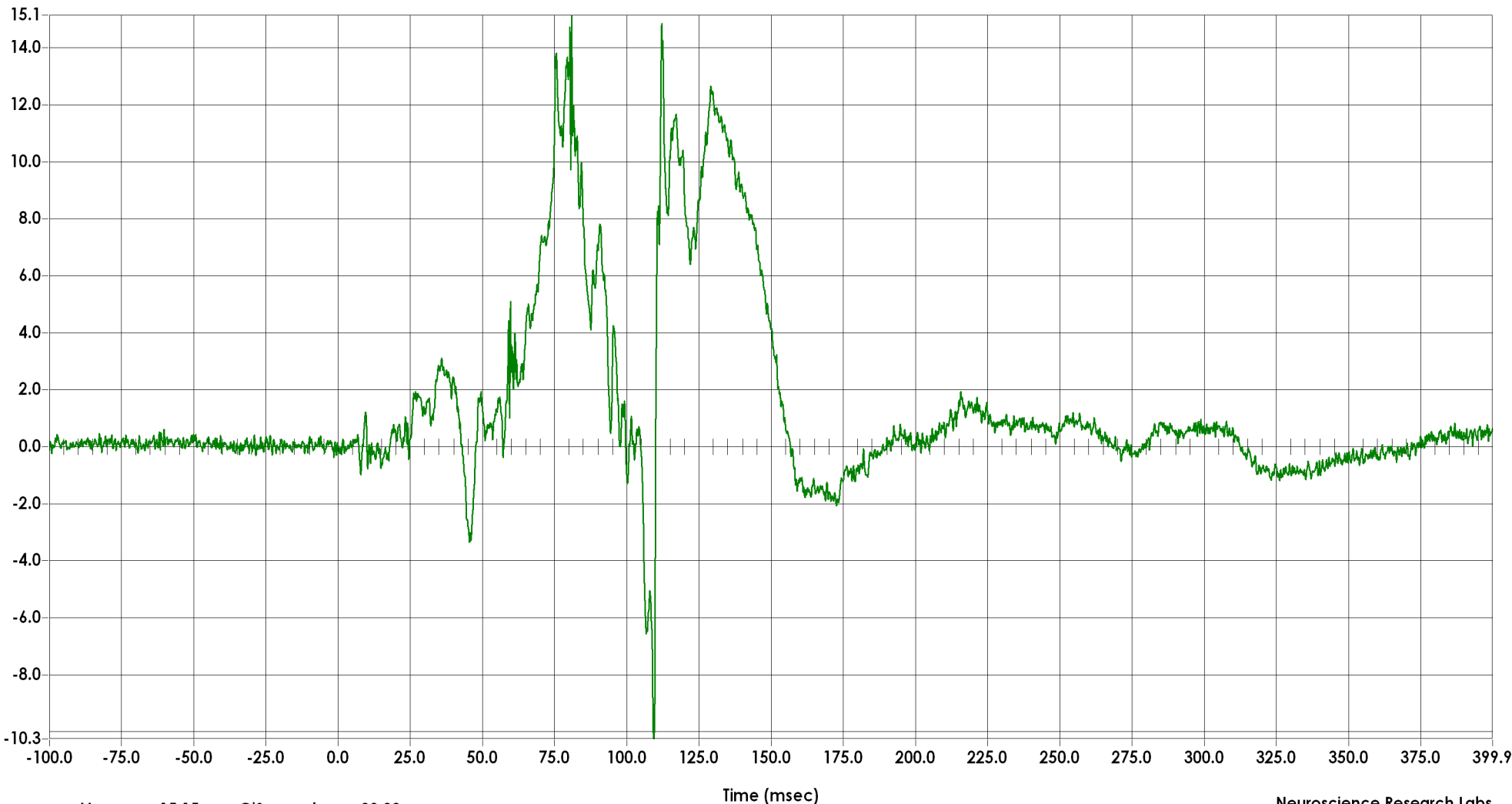
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G's Driver pelvis acceleration YL



Max 15.15 G's at 80.88 msec
Min -10.25 G's at 109.36 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Driver pelvis acceleration ZL



Max 4.59 G'S at 182.72 msec
Min -8.26 G'S at 94.24 msec

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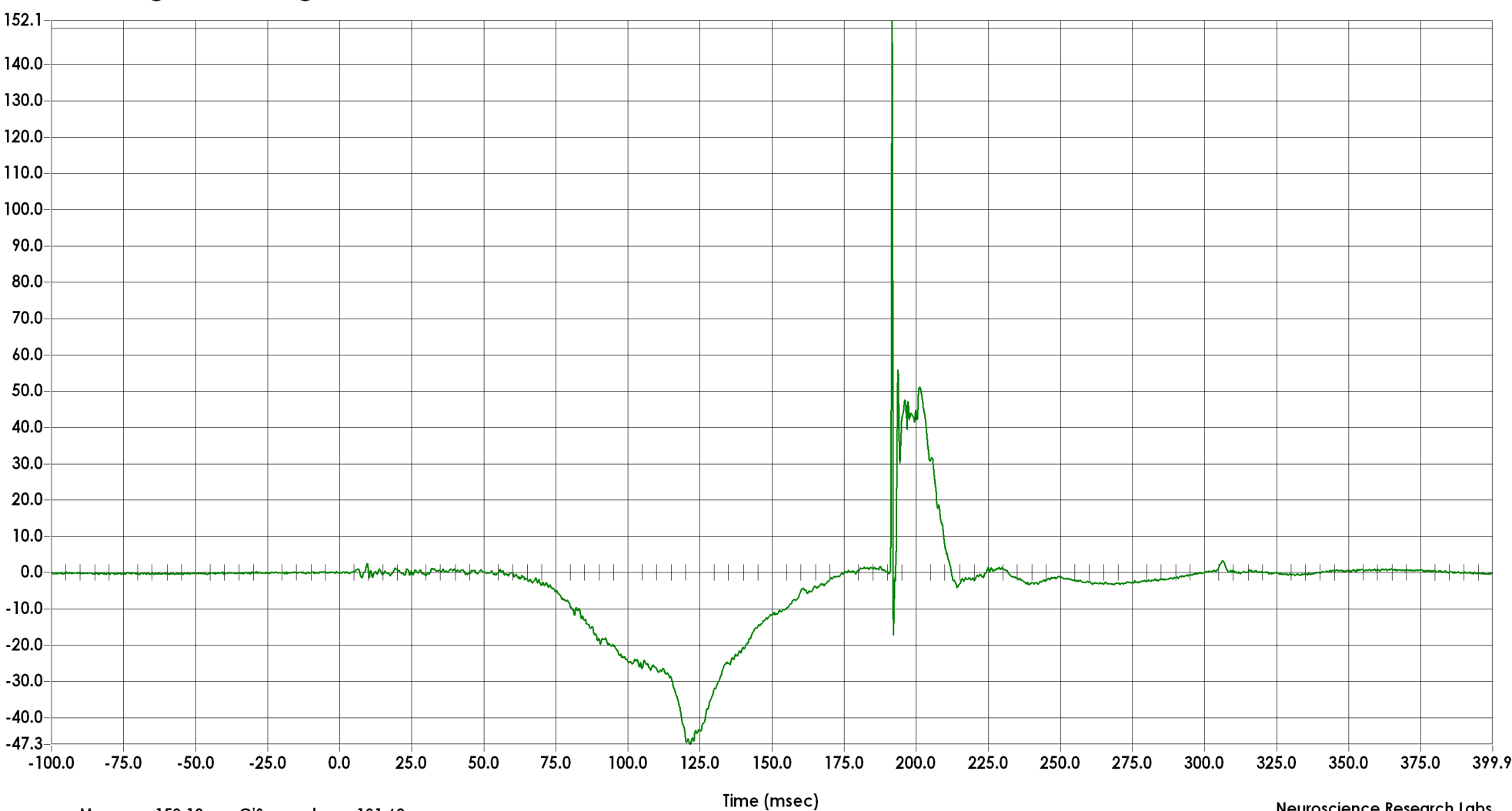
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger head cg acceleration XL



Max 152.13 G'S at 191.60 msec
Min -47.32 G'S at 121.68 msec

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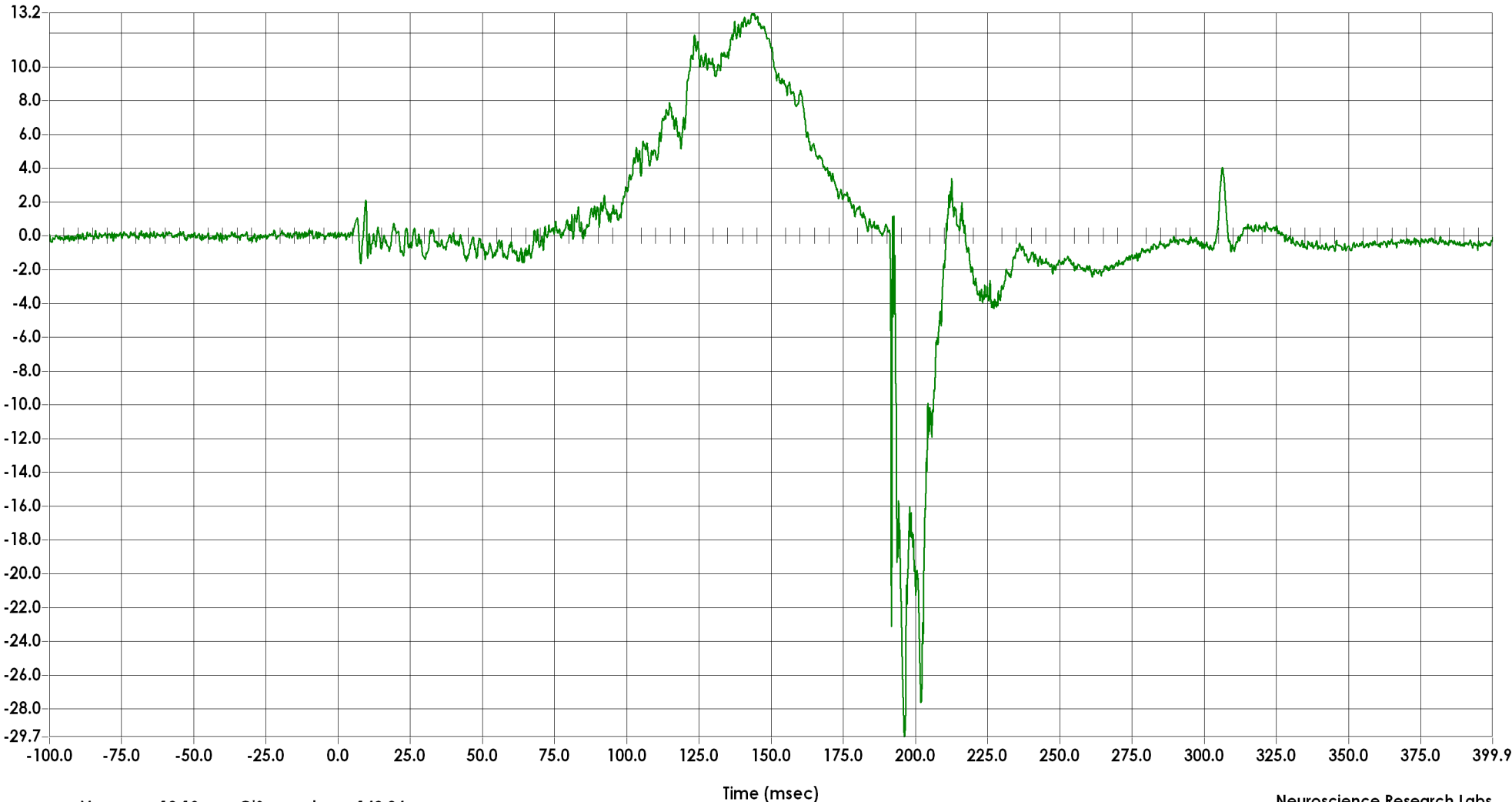
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger head cg acceleration YL



Max 13.19 G'S at 143.84 msec
Min -29.65 G'S at 196.16 msec

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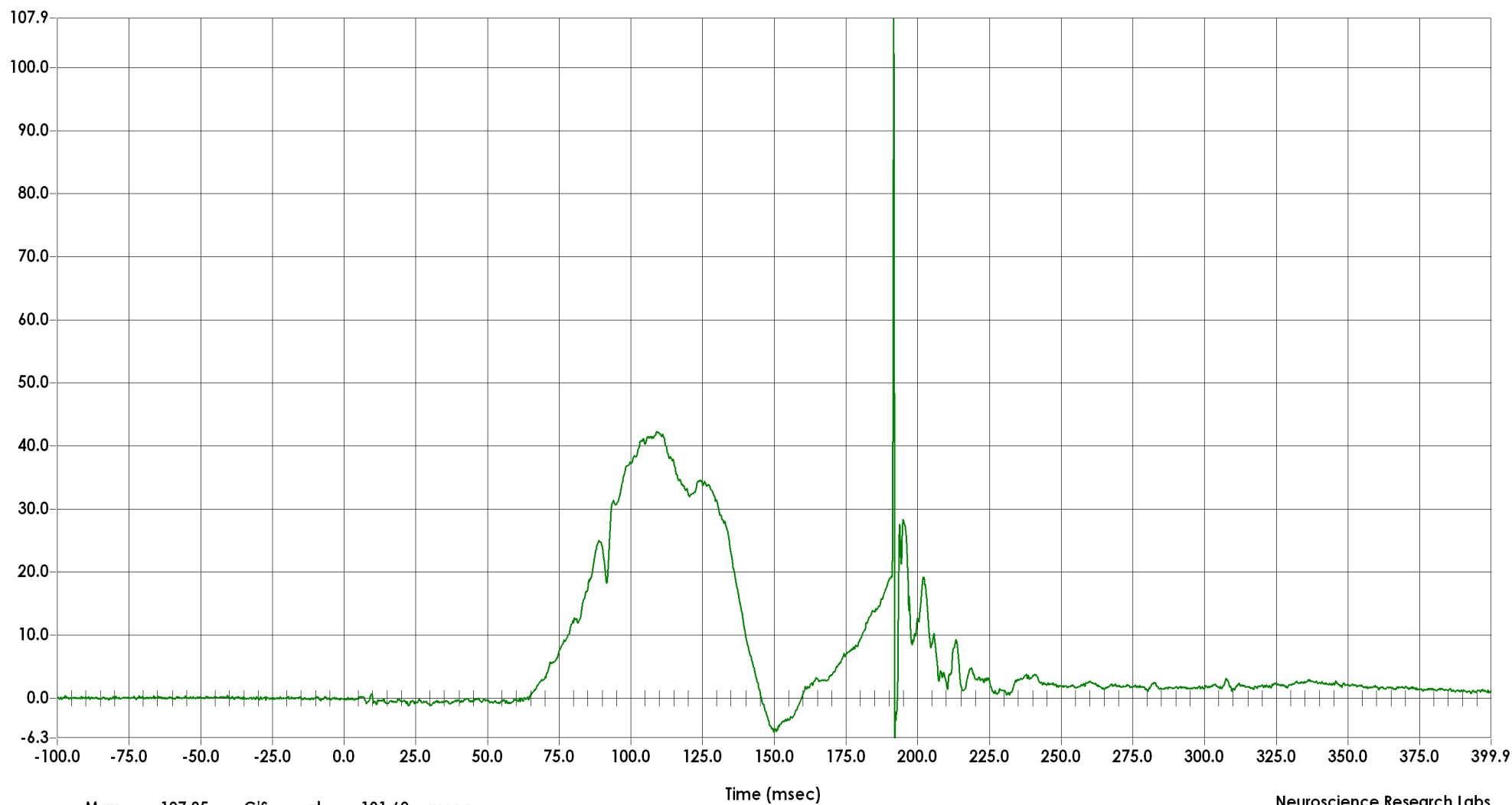
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger head cg acceleration ZL



Max 107.85 G'S at 191.60 msec
Min -6.31 G'S at 192.00 msec

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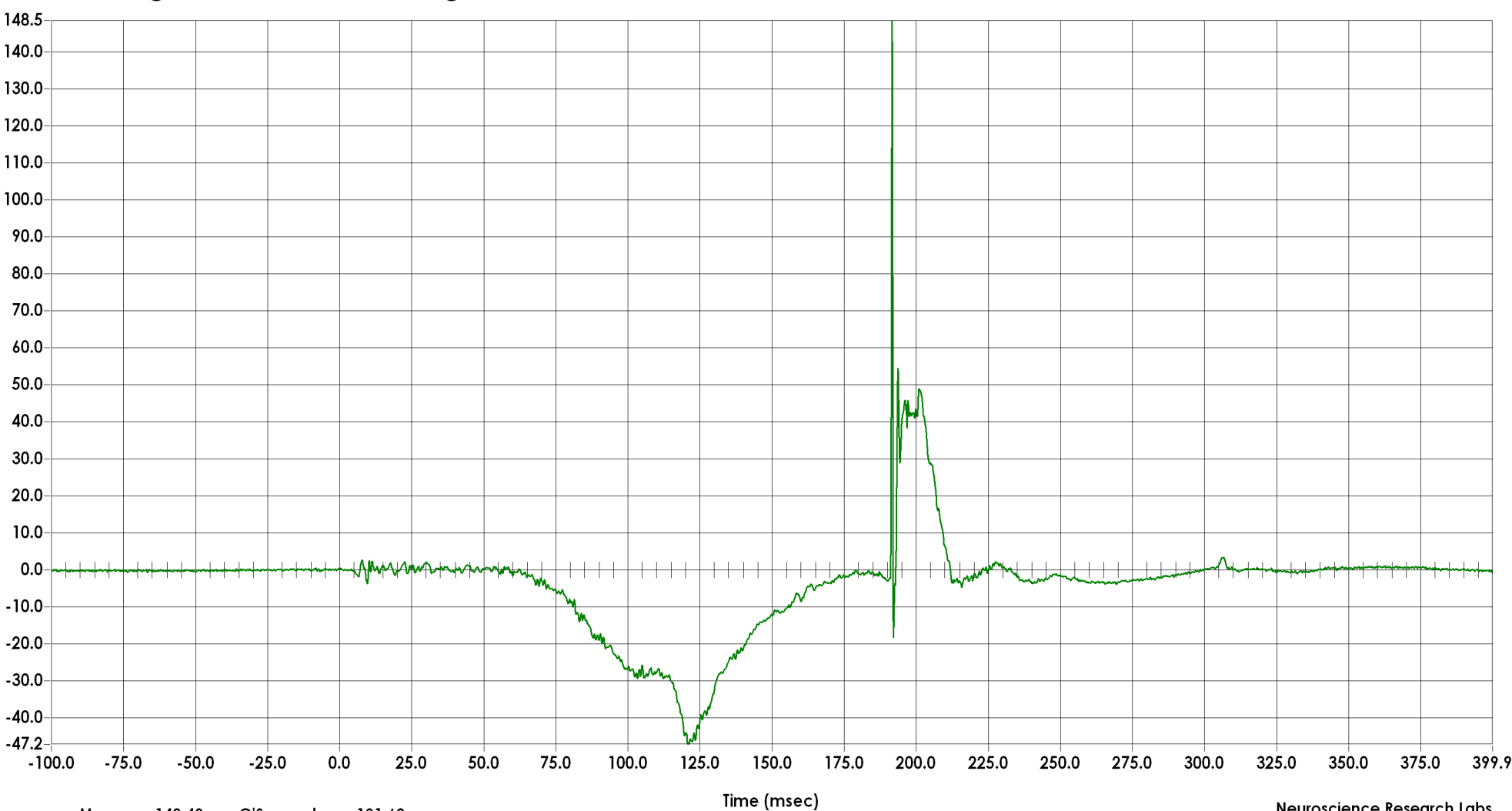
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
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 148.49 G'S at 191.60 msec
Min -47.19 G'S at 121.04 msec

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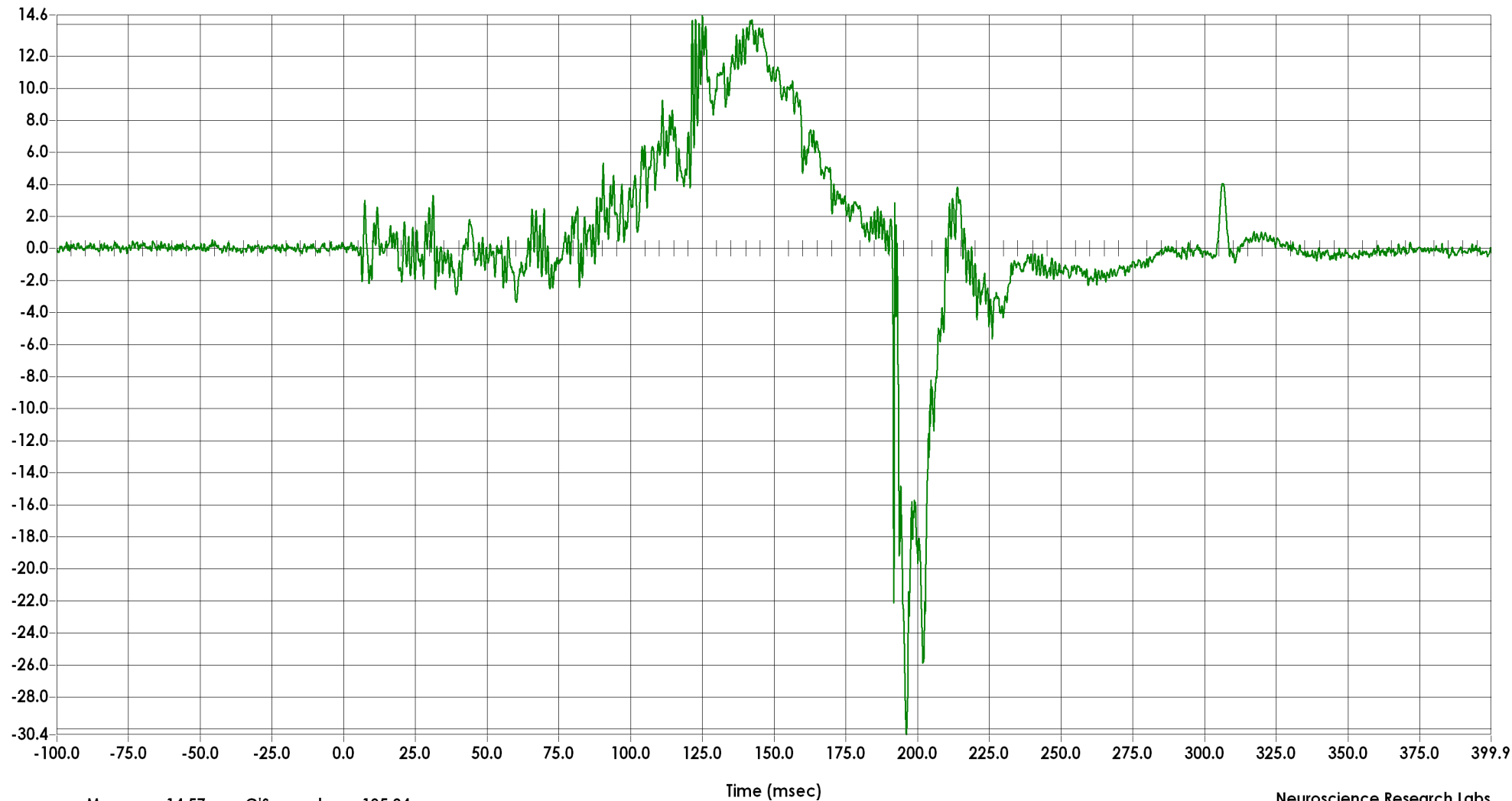
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
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 14.57 G's at 125.04 msec
Min -30.36 G's at 196.08 msec

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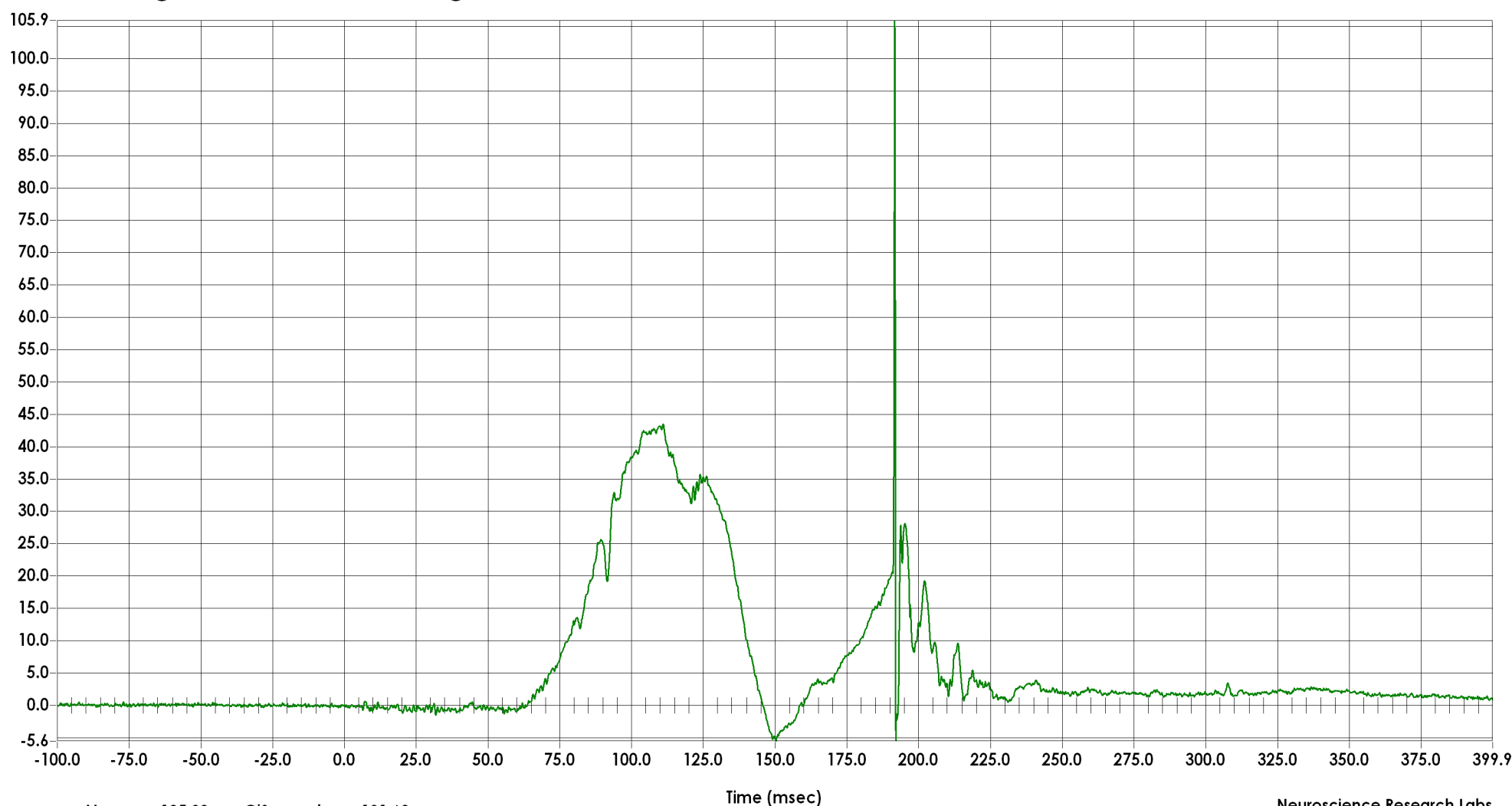
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger redundant head cg acceleration ZL



Max 105.92 G'S at 191.60 msec
Min -5.55 G'S at 150.32 msec

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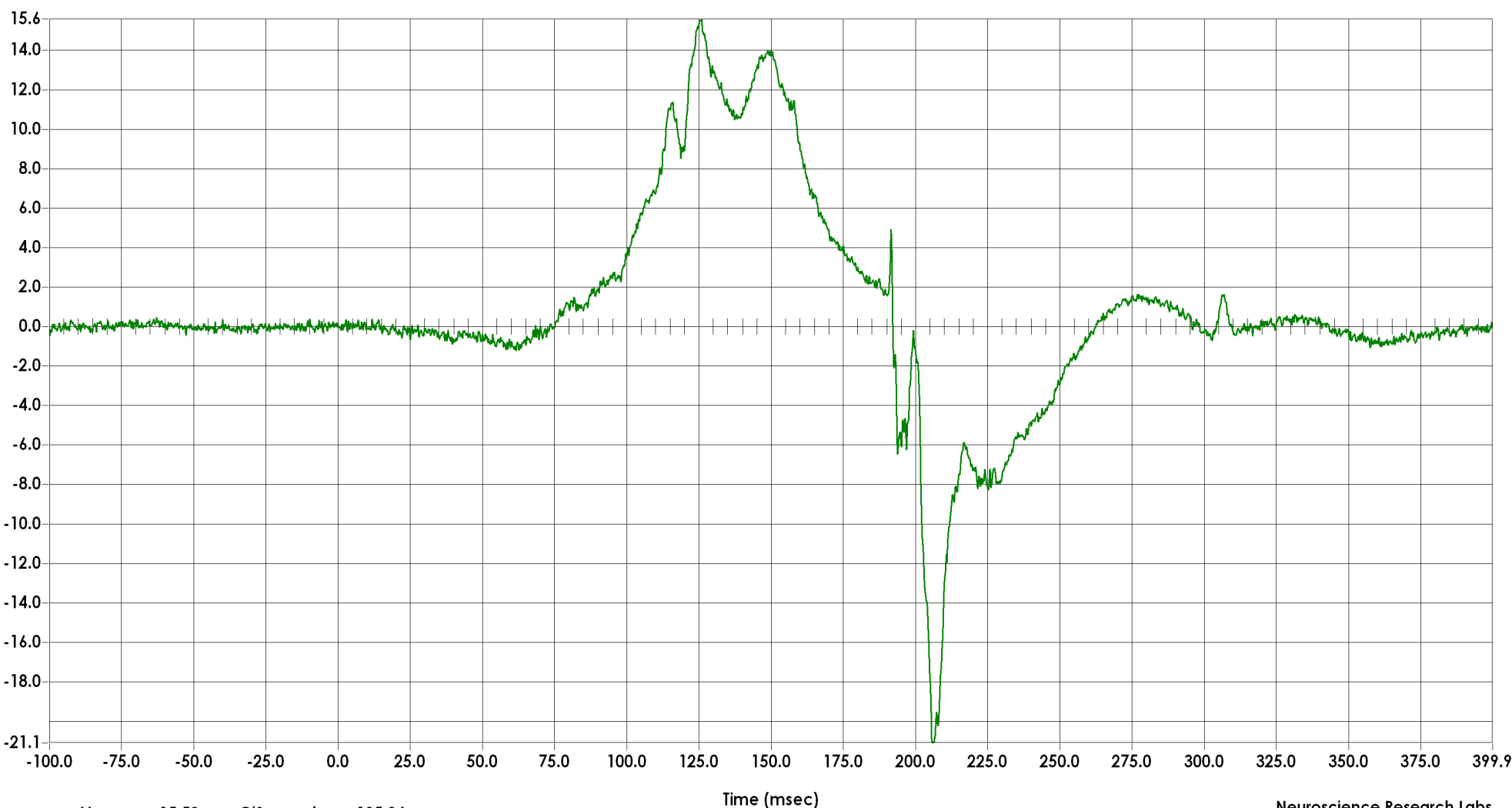
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger internal nap x arm y face YL



Max 15.58 G's at 125.84 msec
Min -21.10 G's at 206.08 msec

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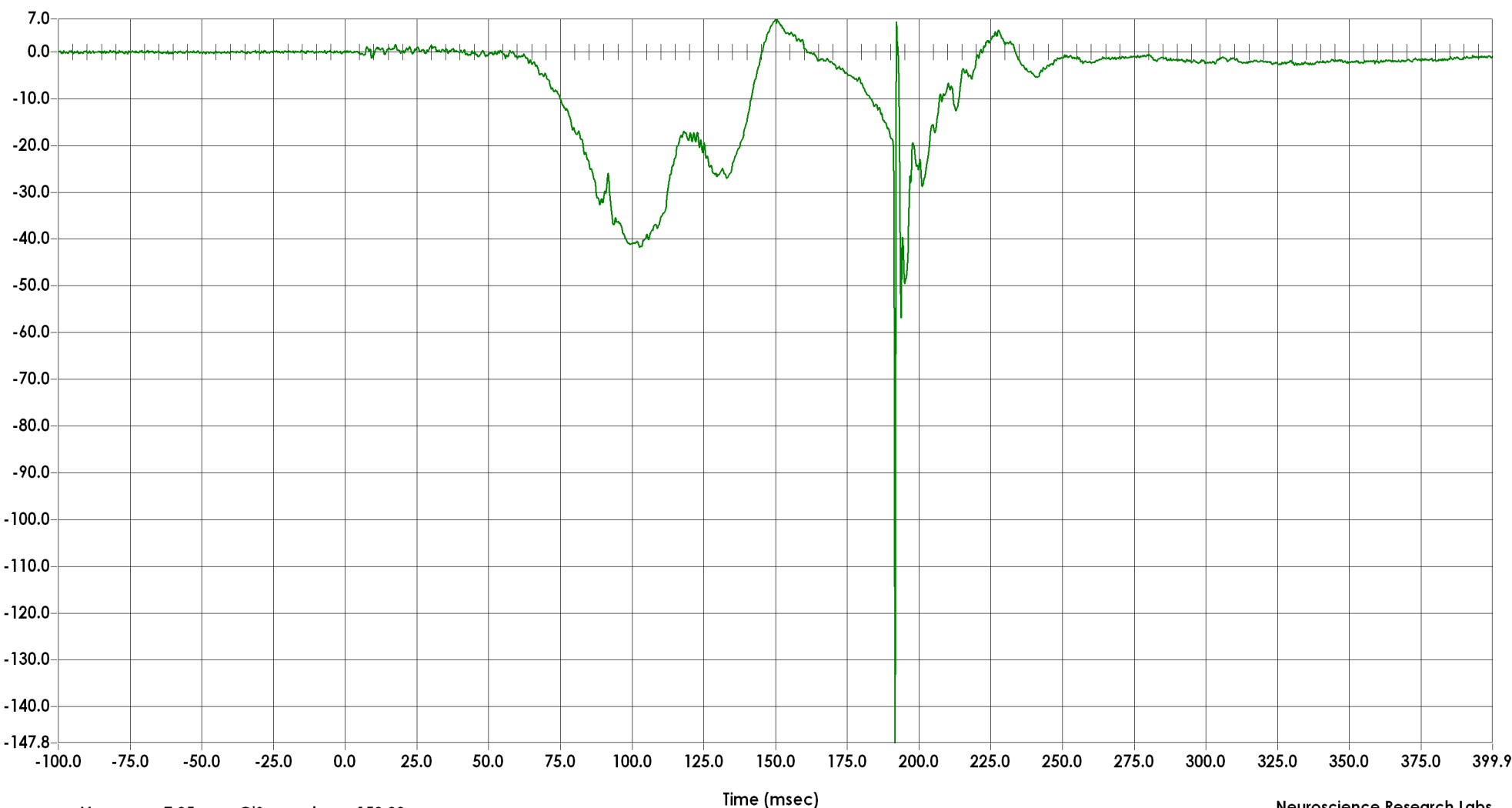
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G's Passenger internal nap x arm z face ZL



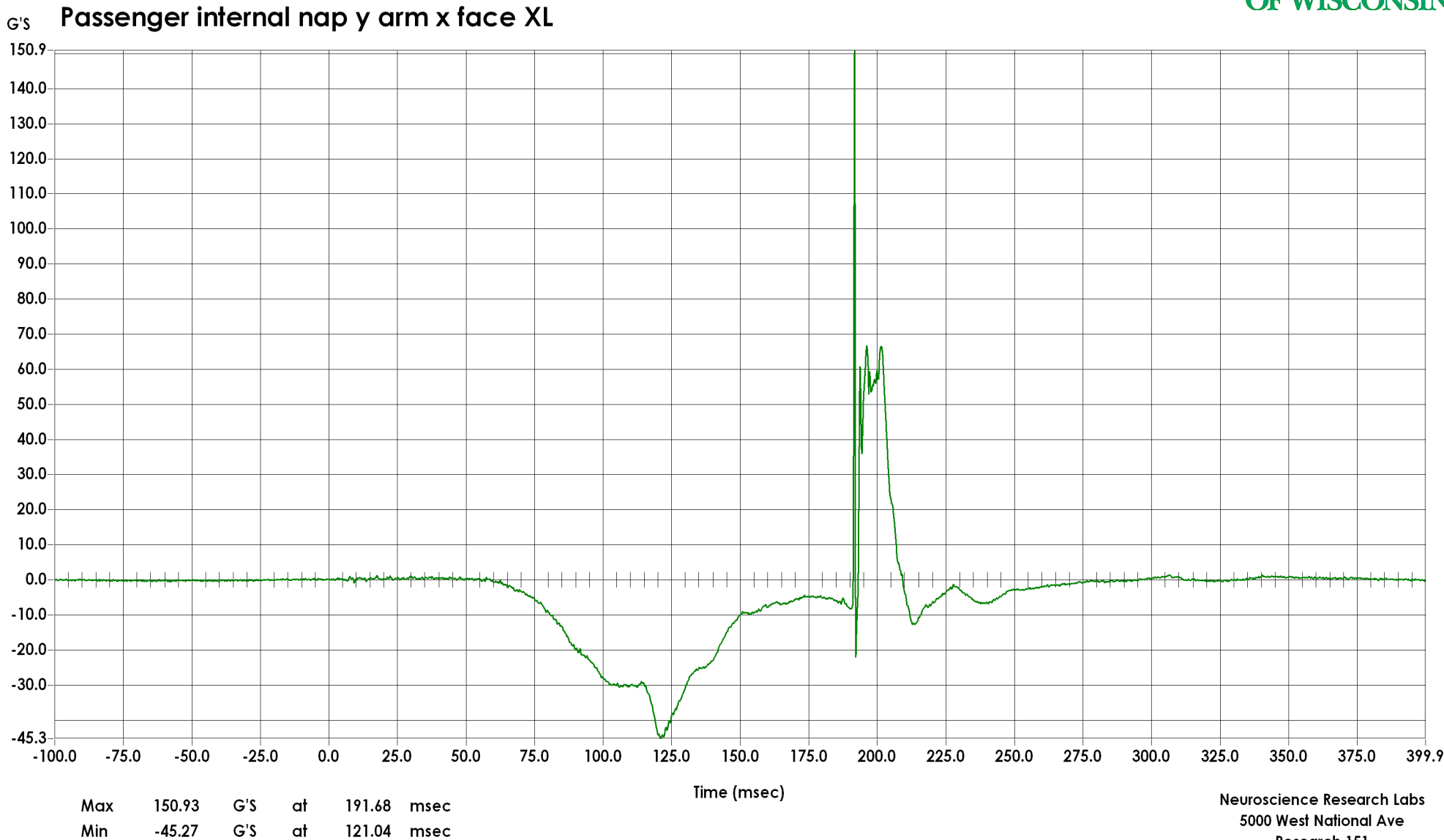
Max 7.05 G's at 150.00 msec
Min -147.77 G's at 191.60 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



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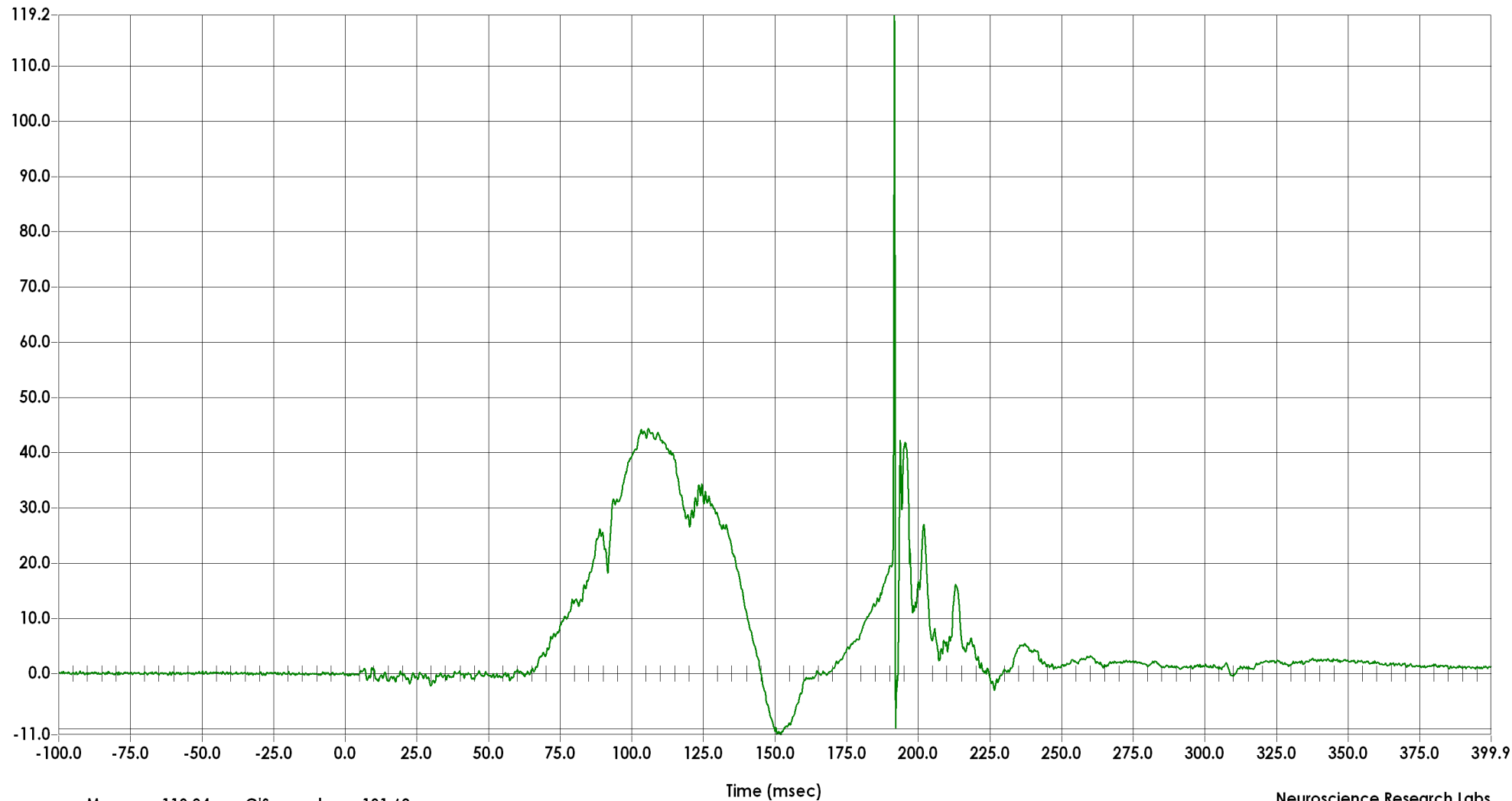
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger internal nap y arm z face ZL



Max 119.24 G'S at 191.60 msec
Min -11.05 G'S at 152.08 msec

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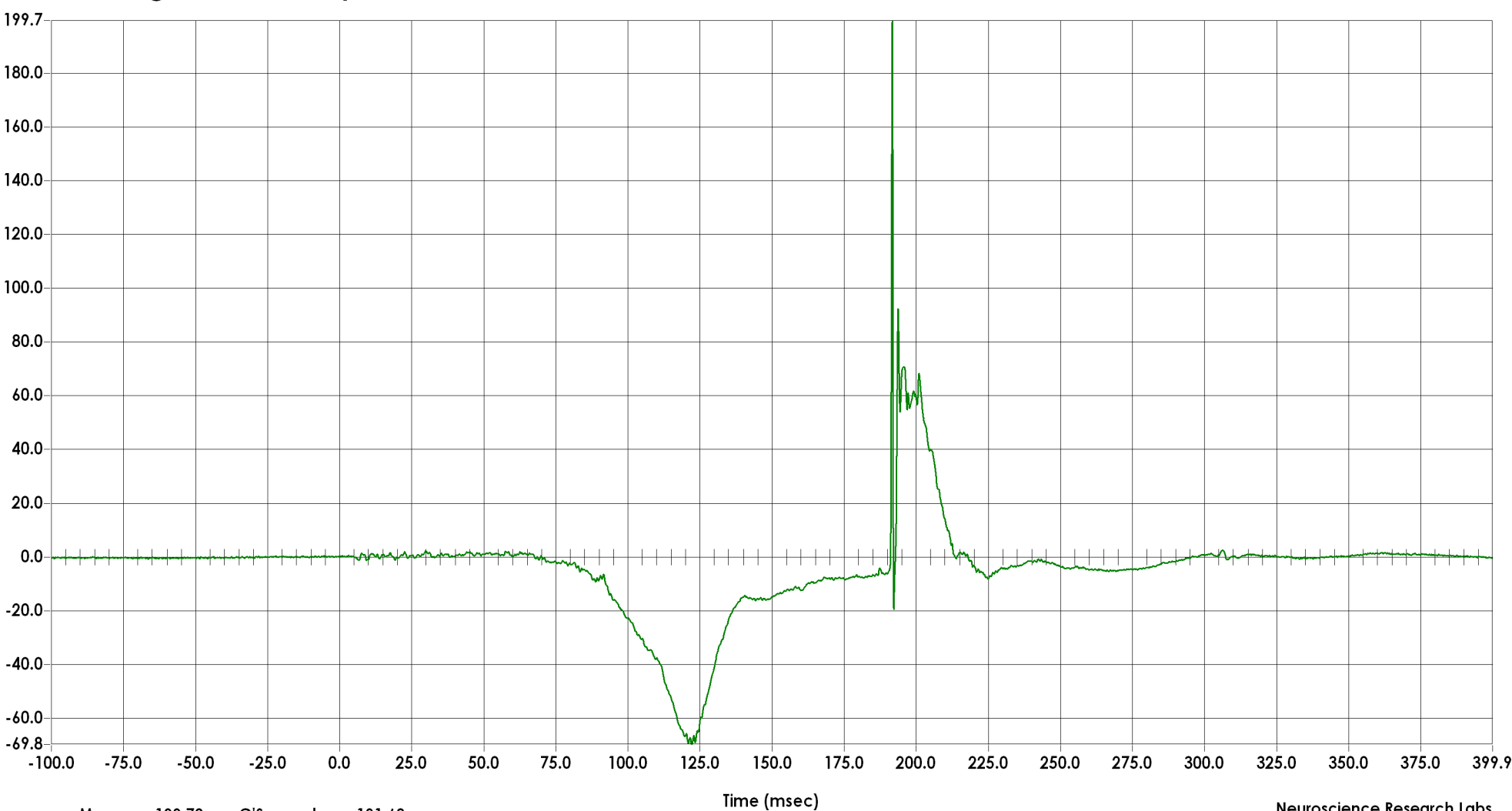
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger internal nap z arm x face XL



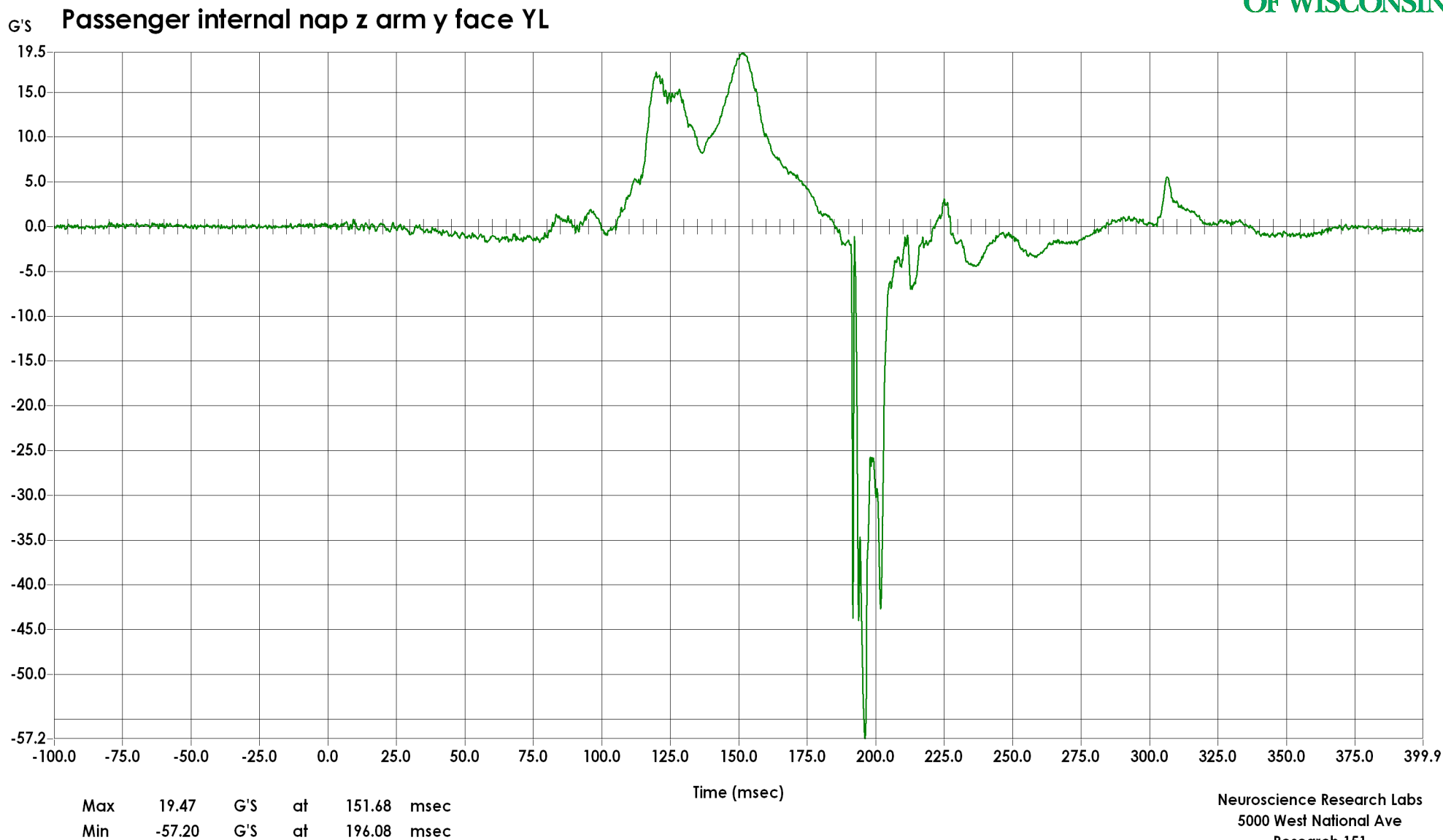
Max 199.70 G'S at 191.68 msec
Min -69.80 G'S at 122.08 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



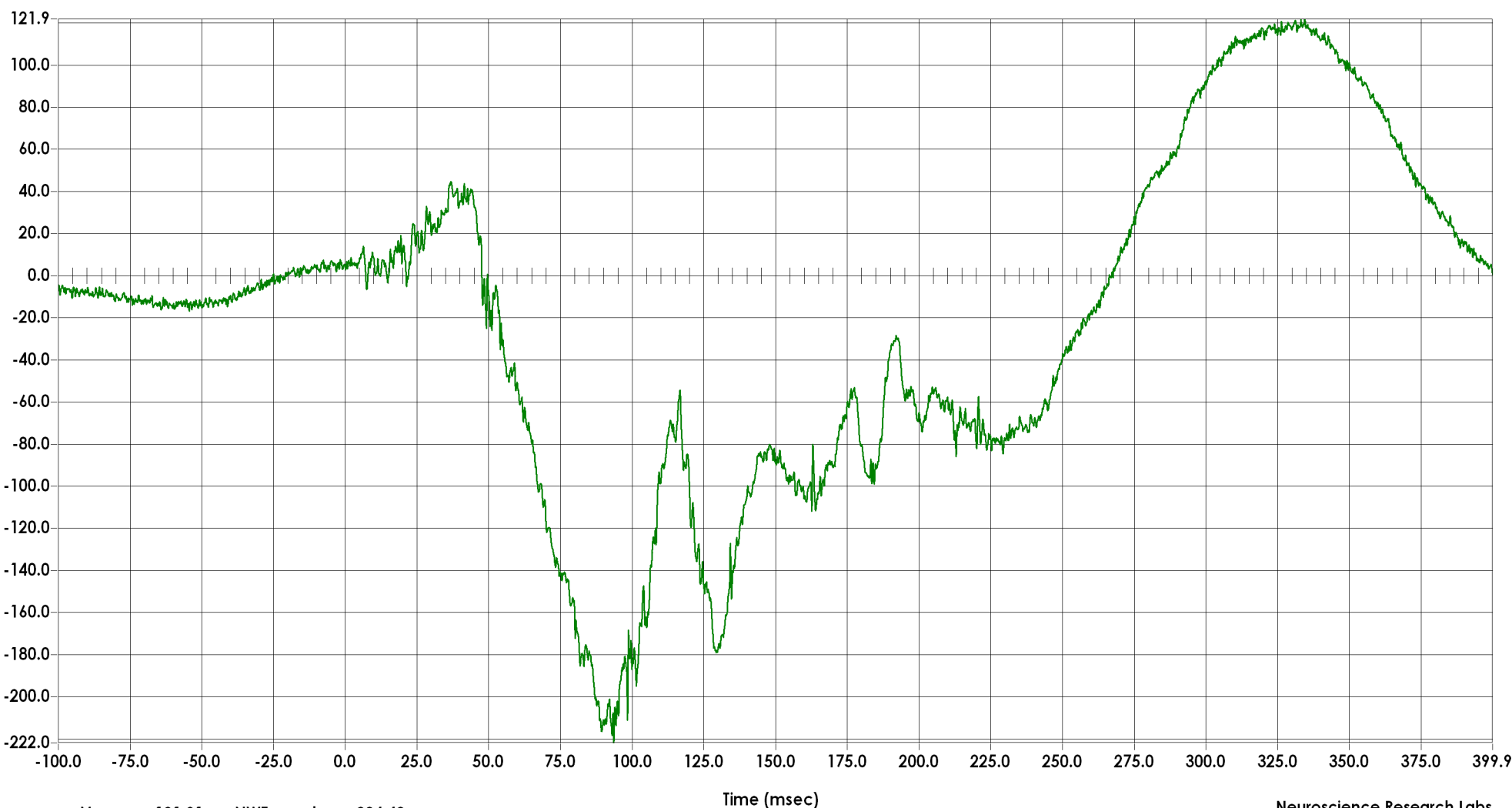
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver upper neck loadcell force XL



Max 121.91 NWT at 334.48 msec
Min -221.96 NWT at 93.60 msec

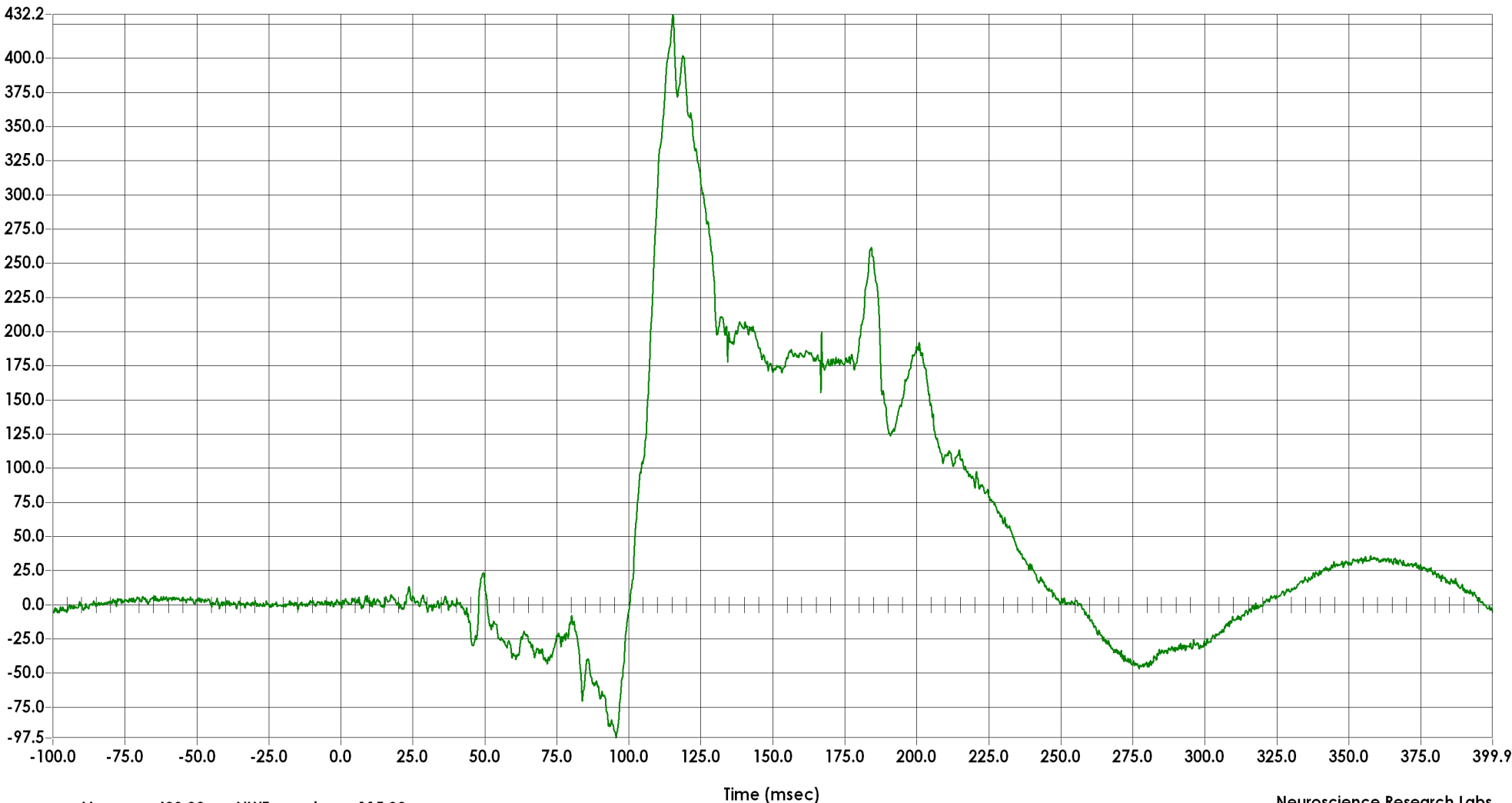
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver upper neck loadcell force YL



Max 432.23 NWT at 115.28 msec
Min -97.51 NWT at 95.52 msec

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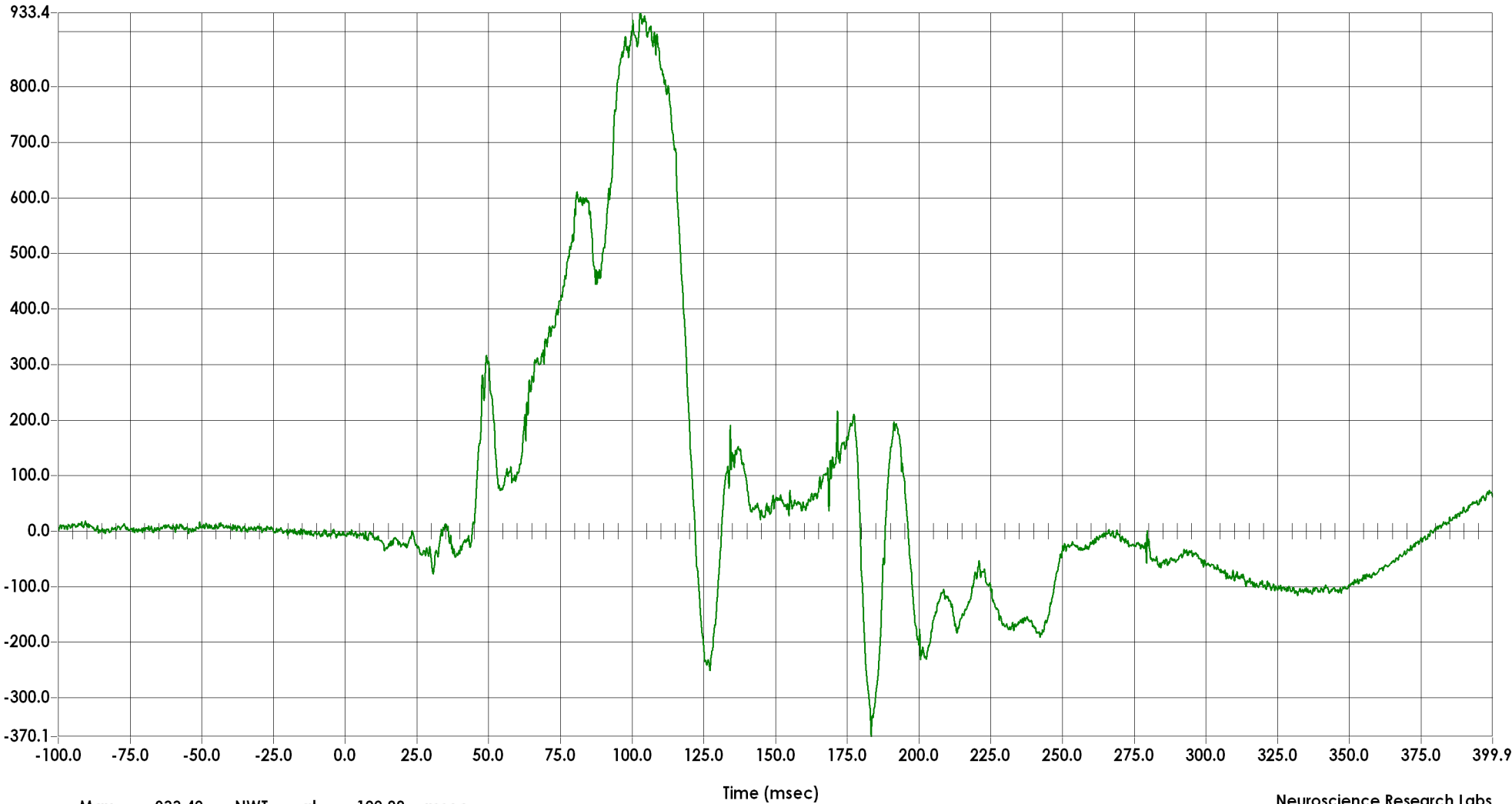
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver upper neck loadcell force ZL



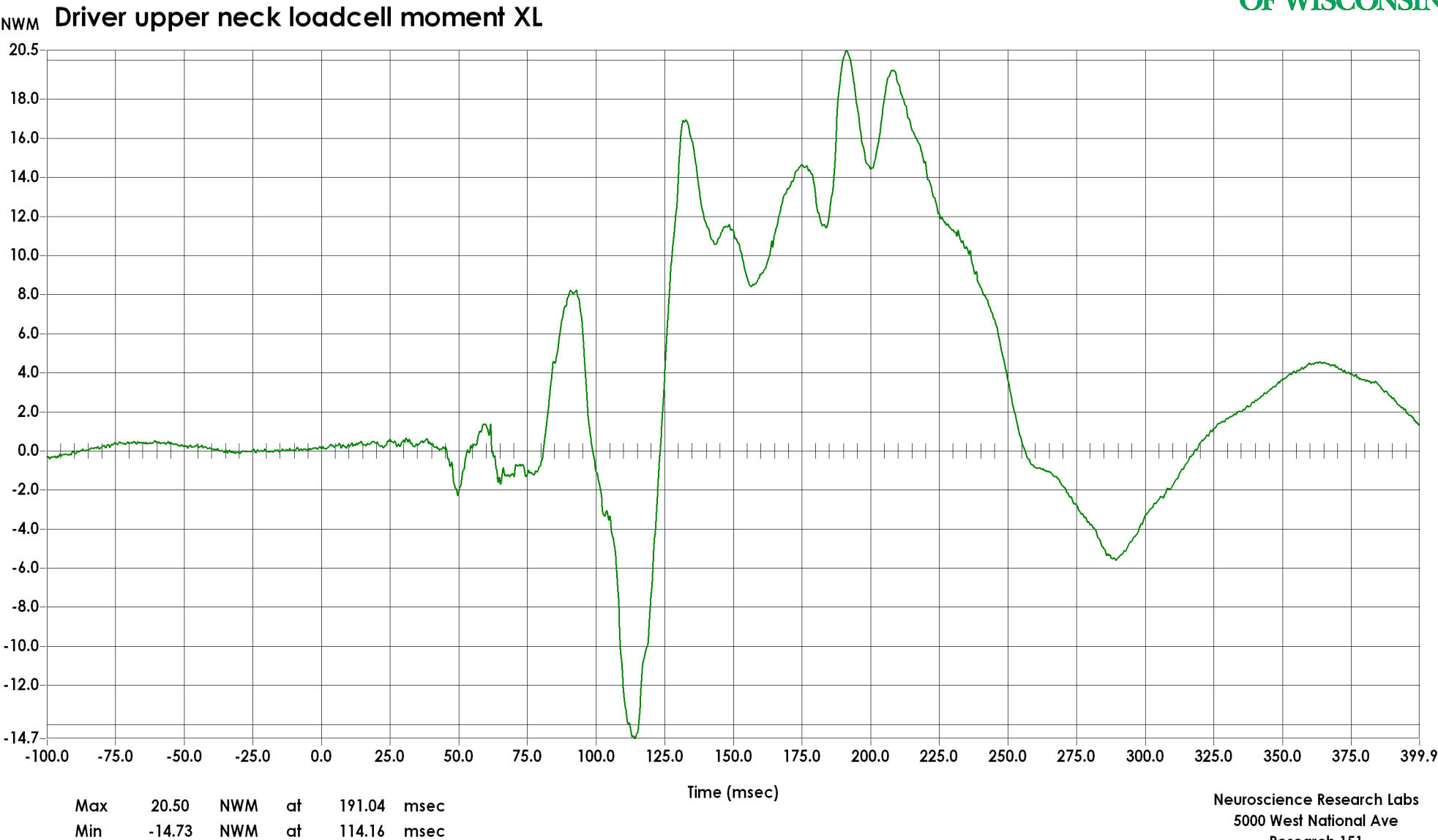
Max 933.42 NWT at 102.88 msec
Min -370.12 NWT at 183.28 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



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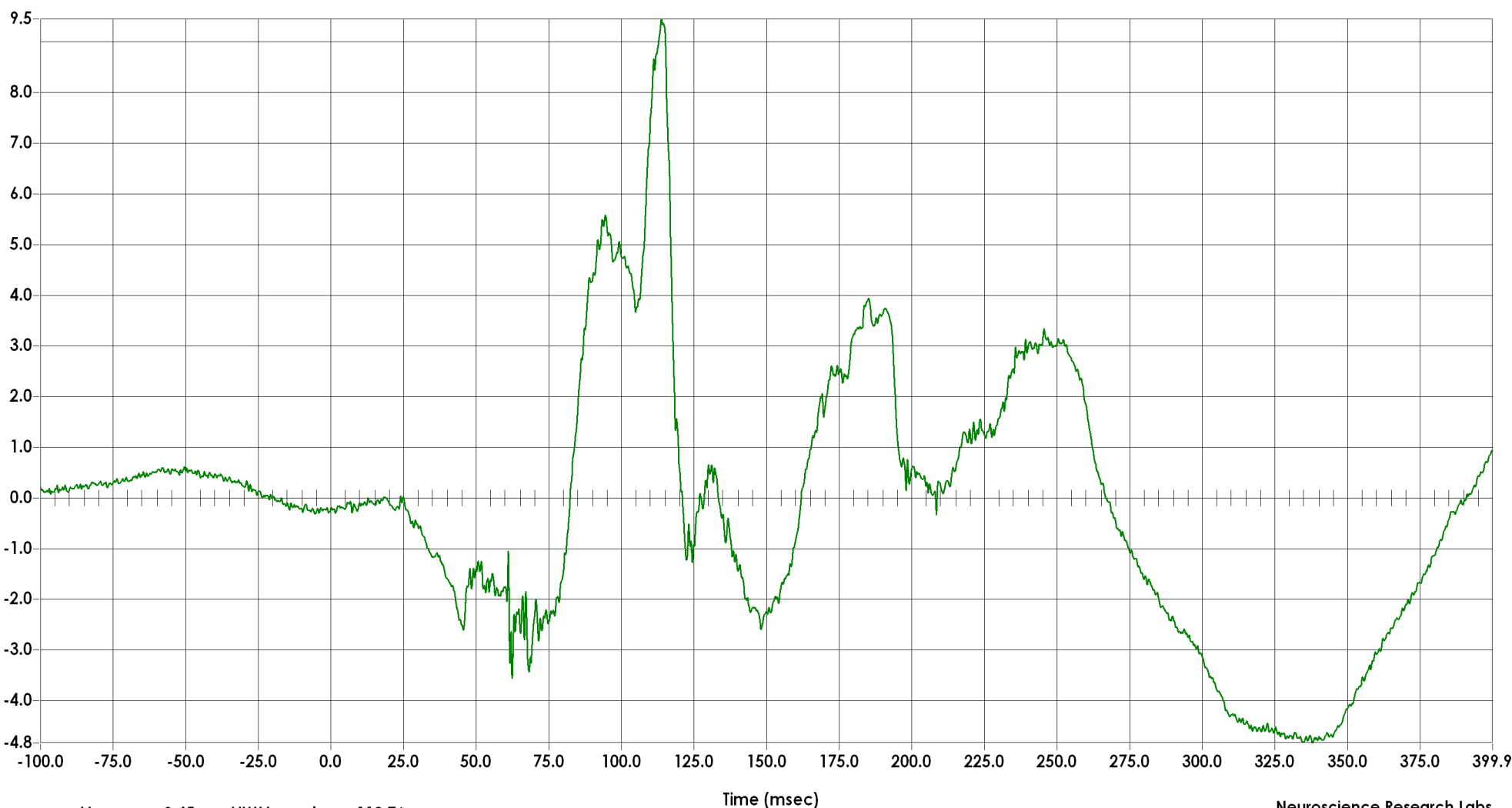
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver upper neck loadcell moment YL



Max 9.45 NWM at 113.76 msec
Min -4.84 NWM at 337.92 msec

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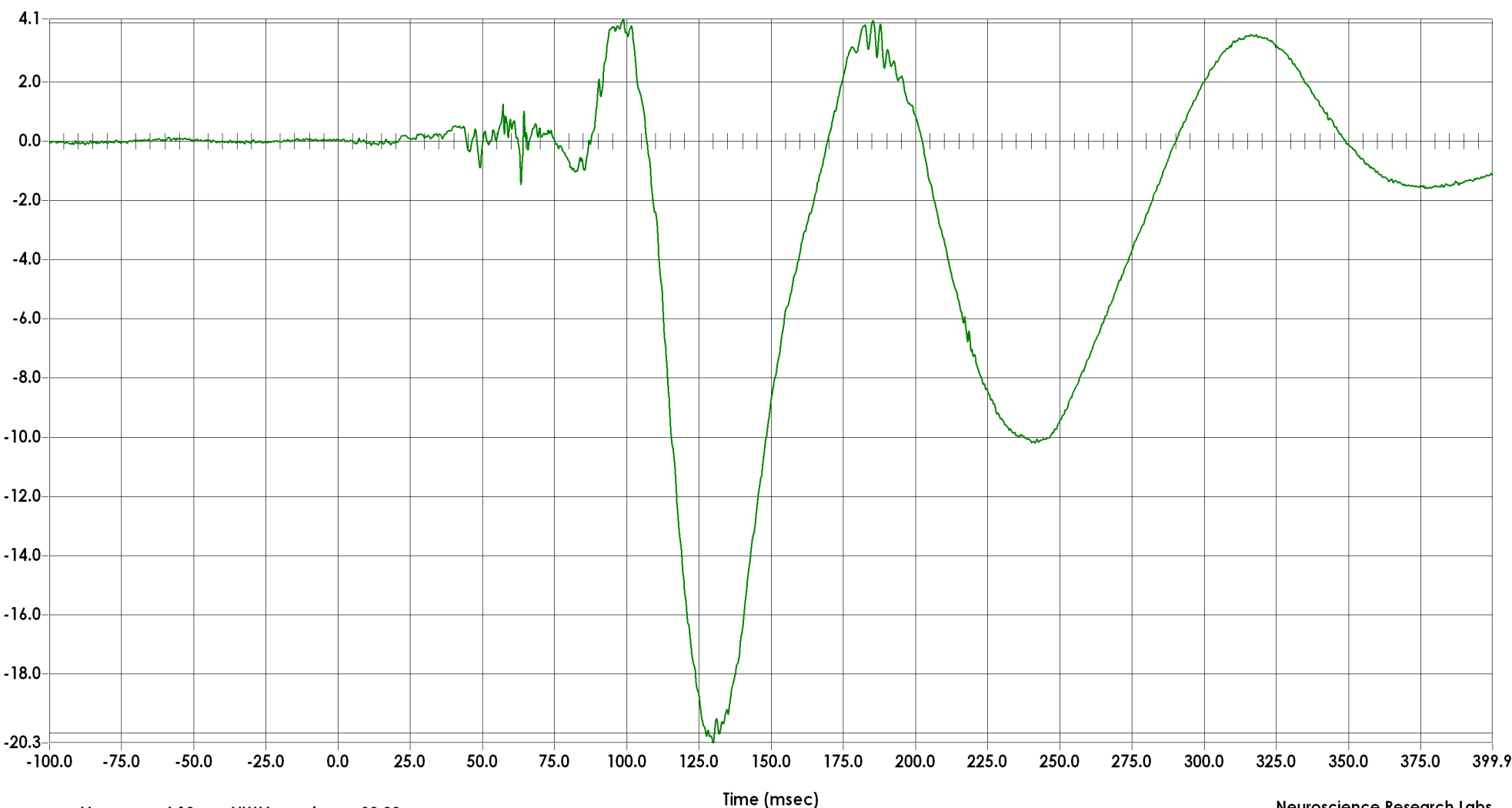
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver upper neck loadcell moment ZL



Max 4.13 NWM at 98.80 msec
Min -20.33 NWM at 130.00 msec

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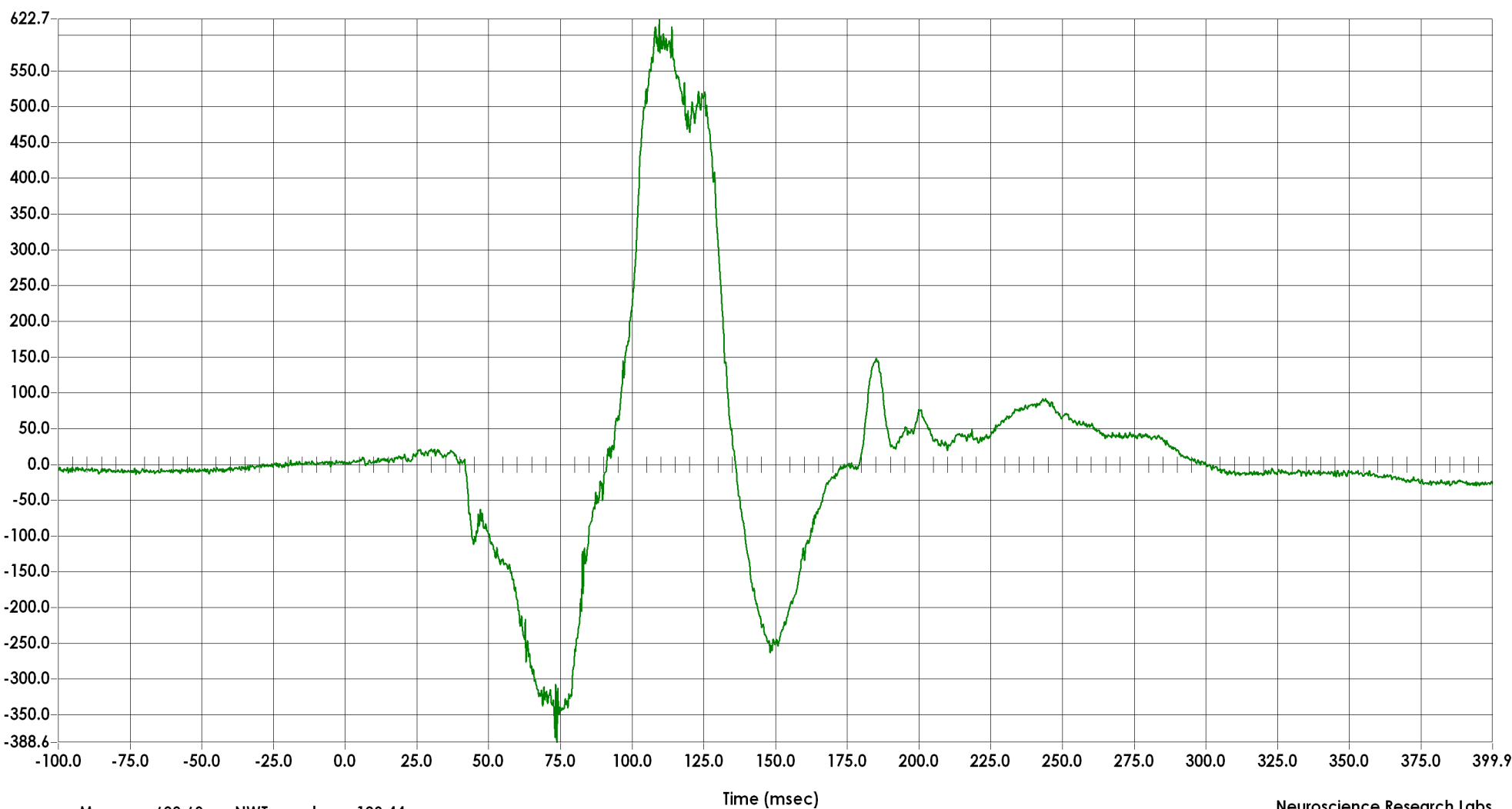
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver lower neck loadcell force XL



Max 622.69 NWT at 109.44 msec
Min -388.60 NWT at 73.76 msec

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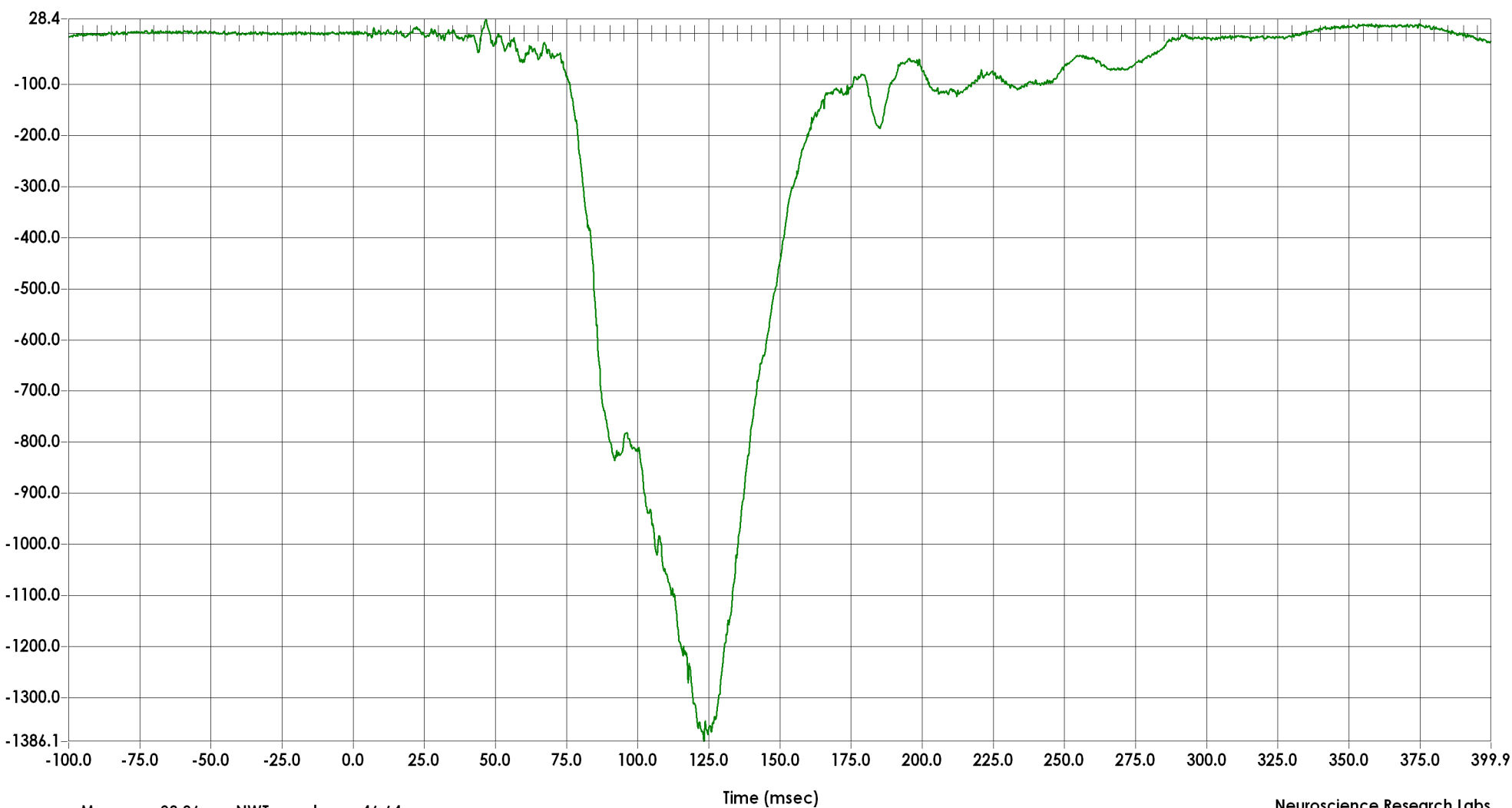
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver lower neck loadcell force YL



Max 28.36 NWT at 46.64 msec
Min -1386.12 NWT at 123.28 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver lower neck loadcell force ZL



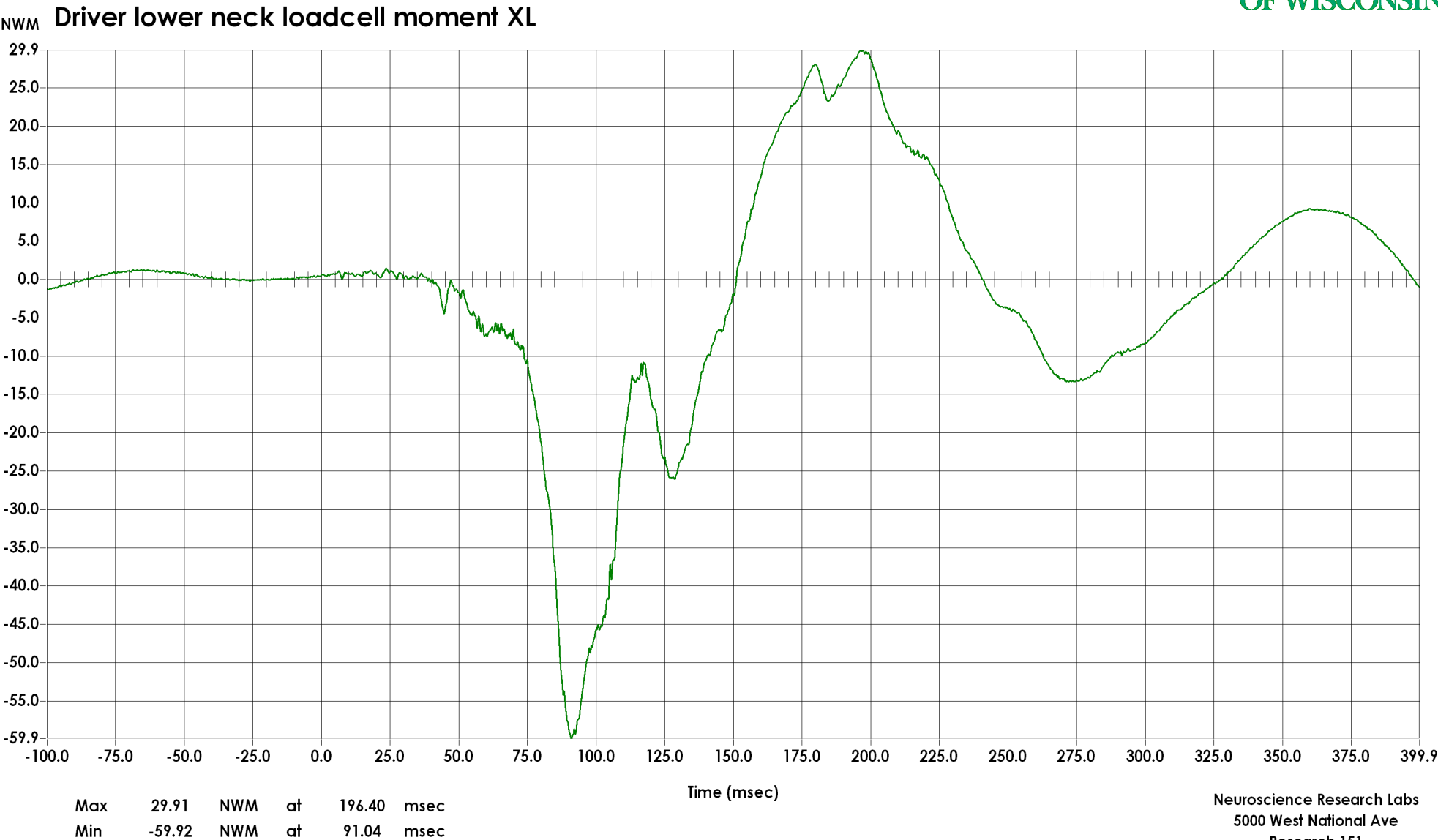
Max 594.95 NWT at 80.48 msec
Min -808.54 NWT at 125.04 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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

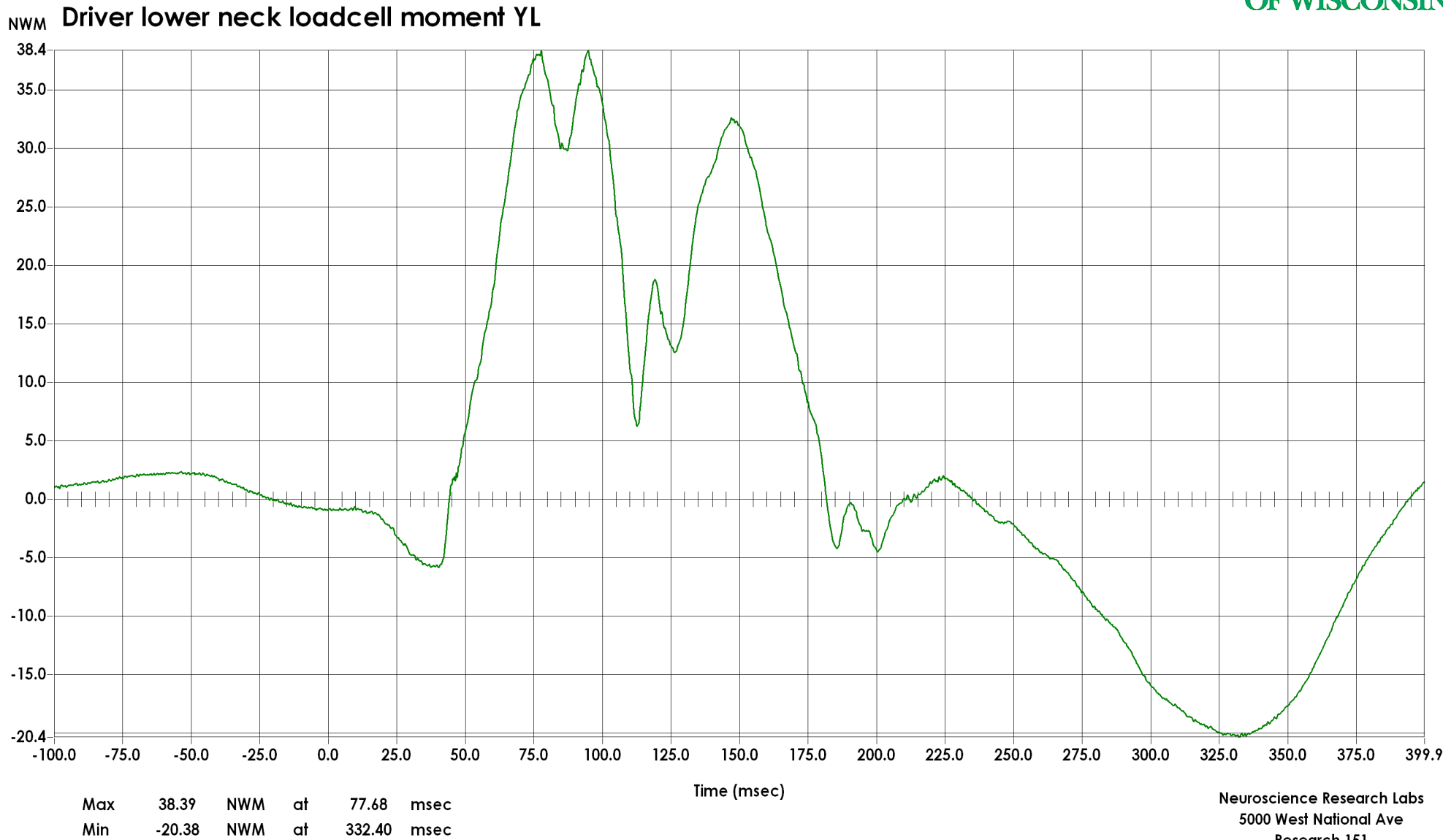


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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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

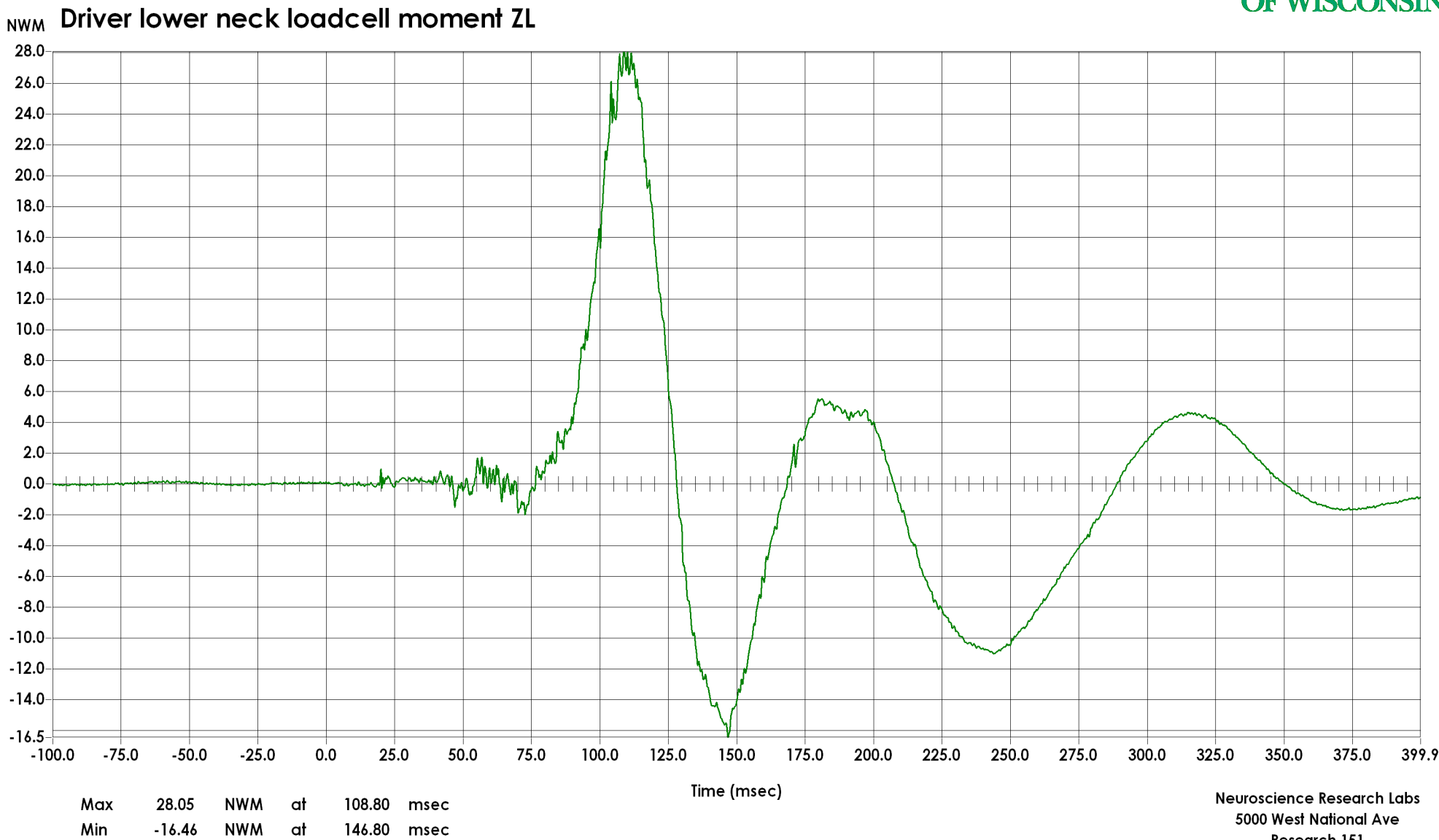


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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



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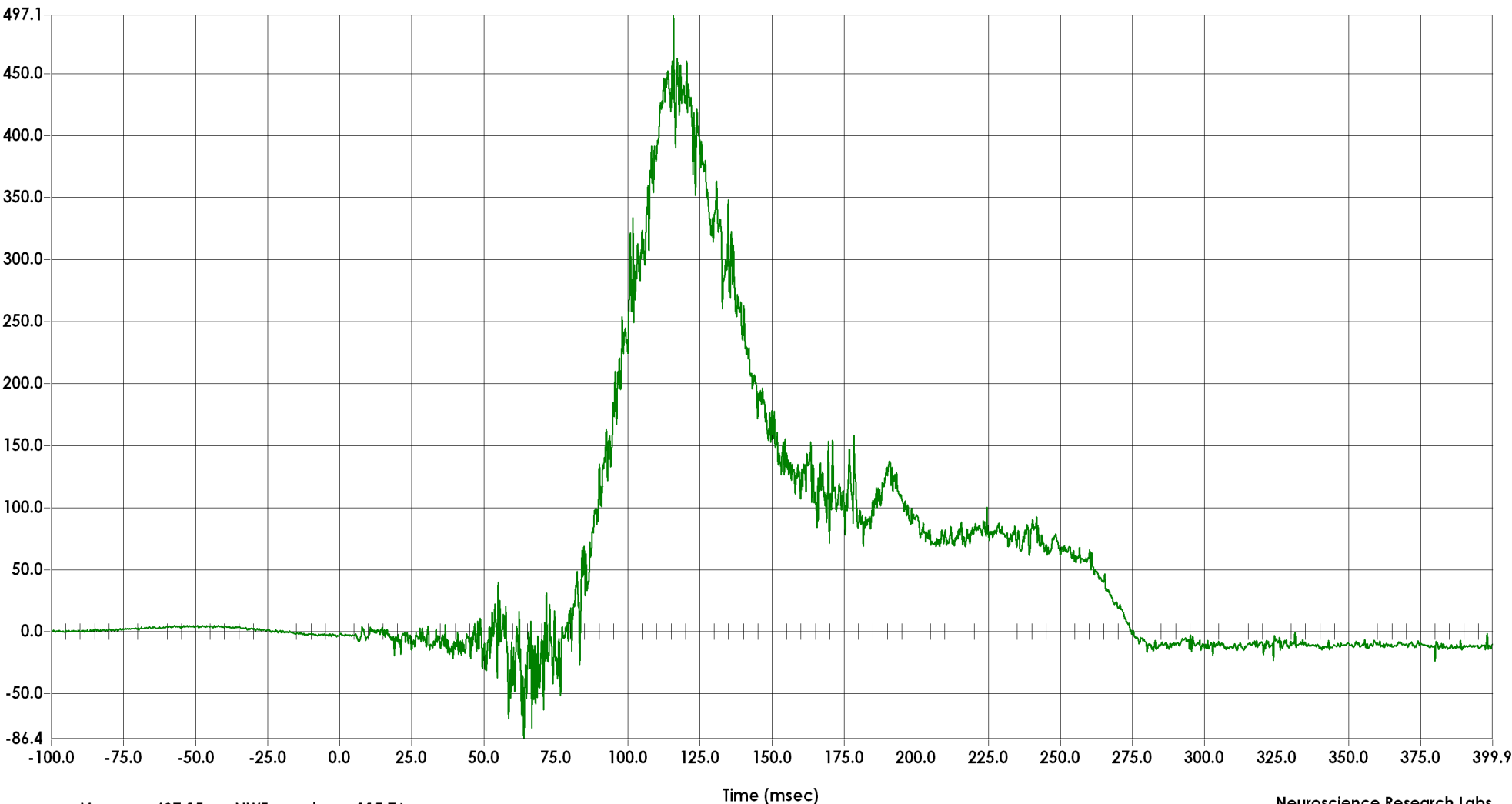
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location NKCP
Sensor Info Denton 6005
Serial Number 6005J_75_FZ



NWT Driver rear spring force ZL



Max 497.15 NWT at 115.76 msec
Min -86.40 NWT at 63.84 msec

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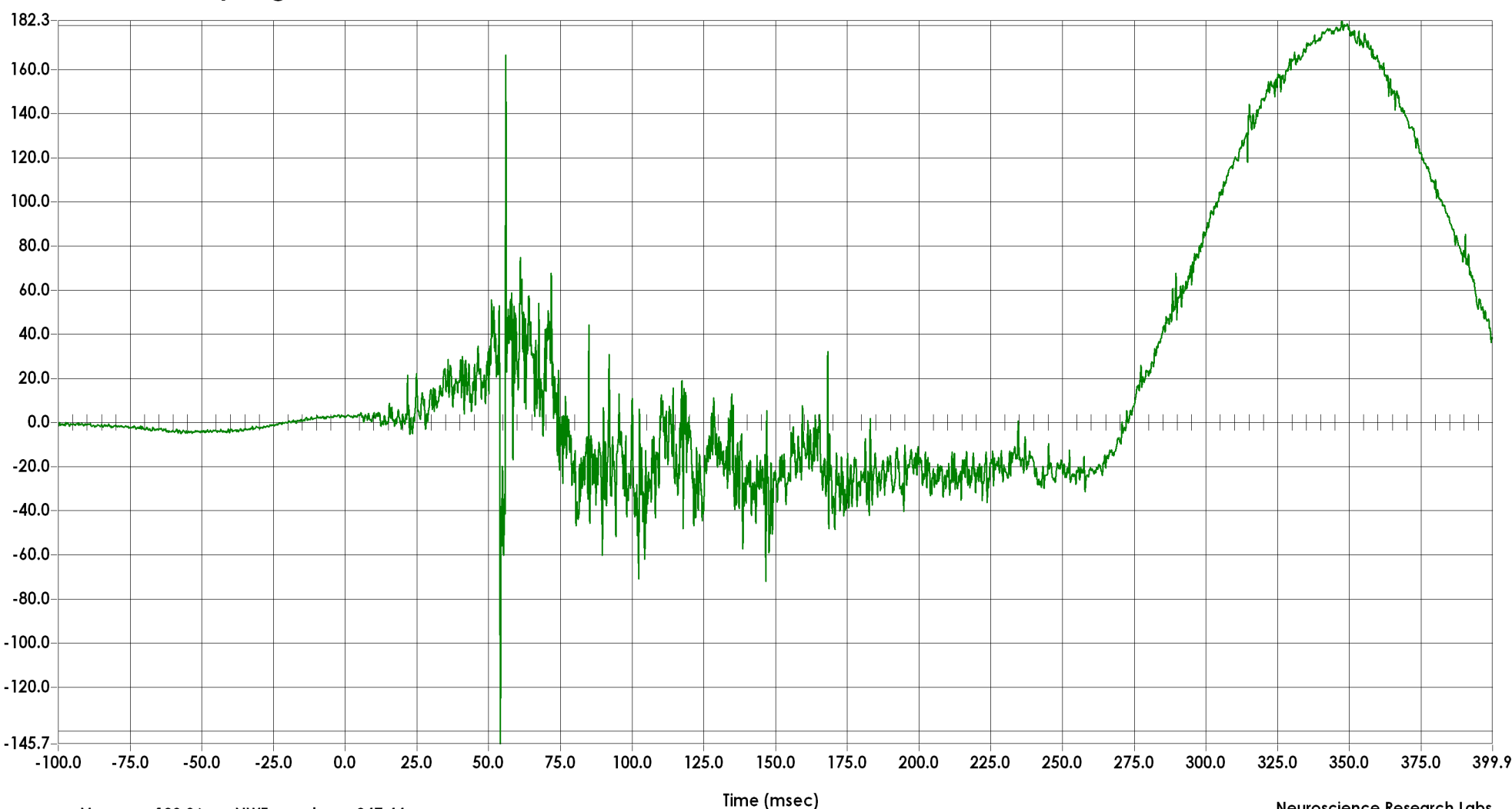
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location NKCA
Sensor Info Denton 6005
Serial Number 6005J_80_FZ



NWT Driver front spring force ZL



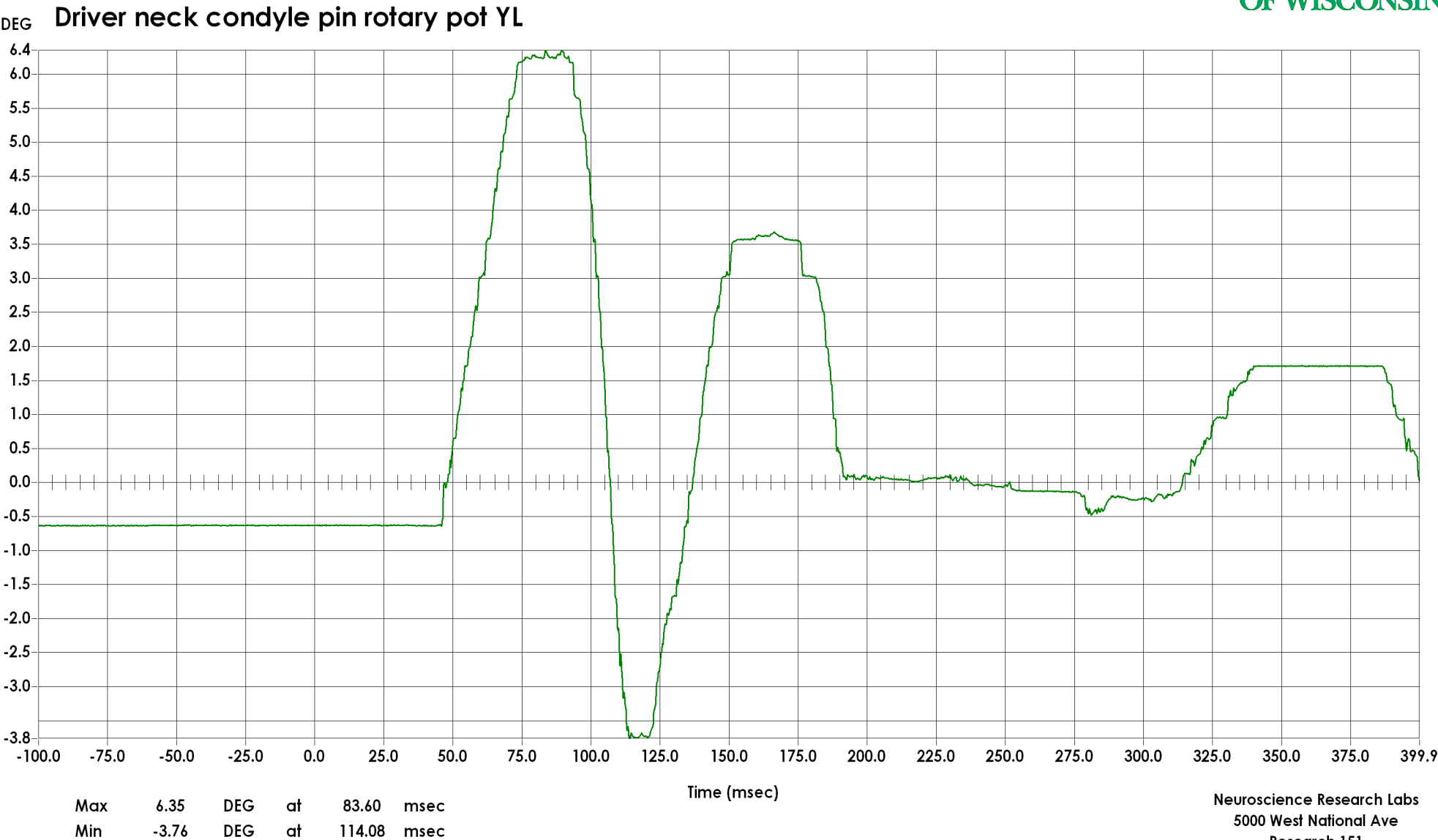
Max 182.26 NWT at 347.44 msec
Min -145.72 NWT at 54.08 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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

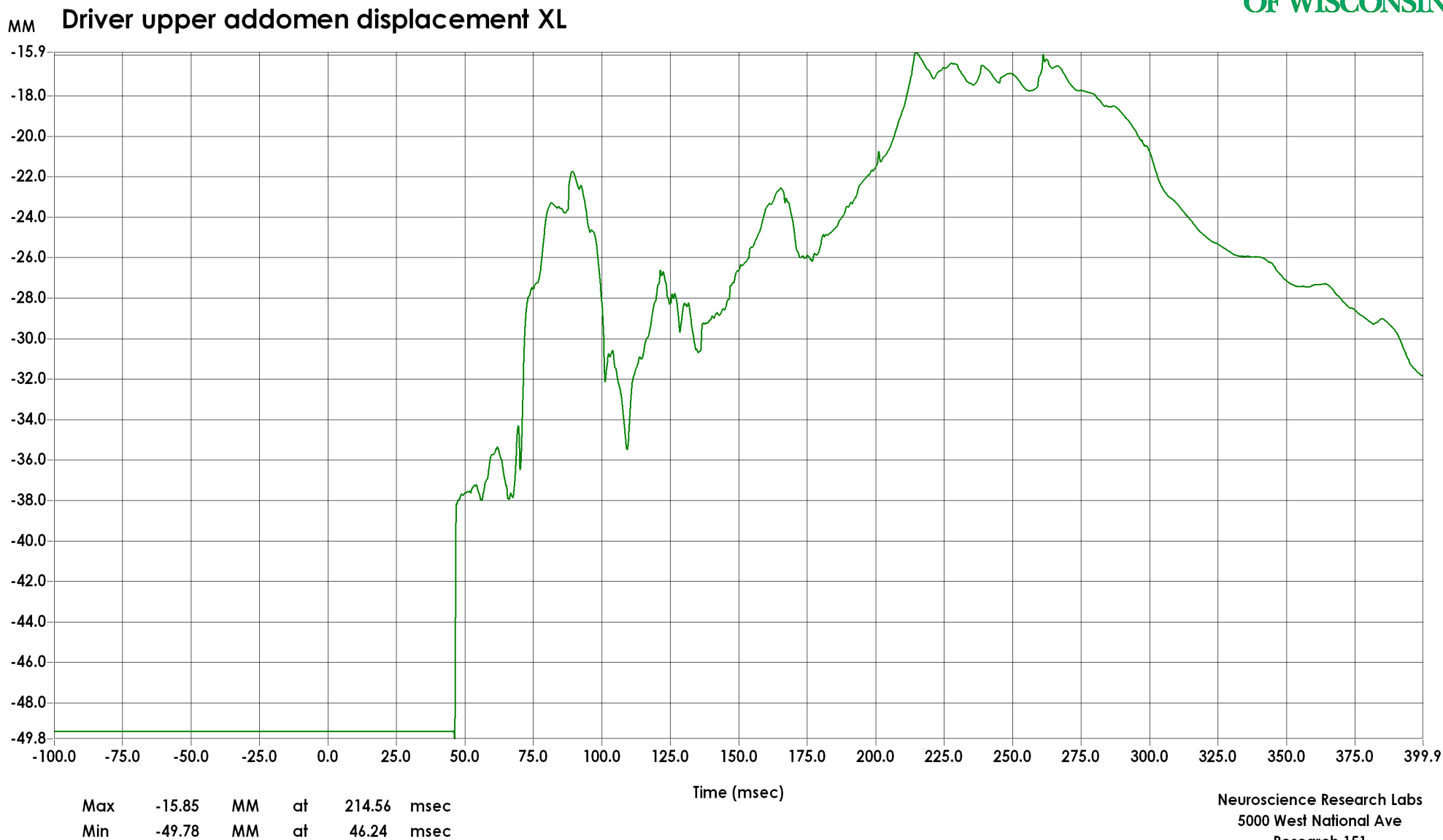


SOI001 Plot 079

Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

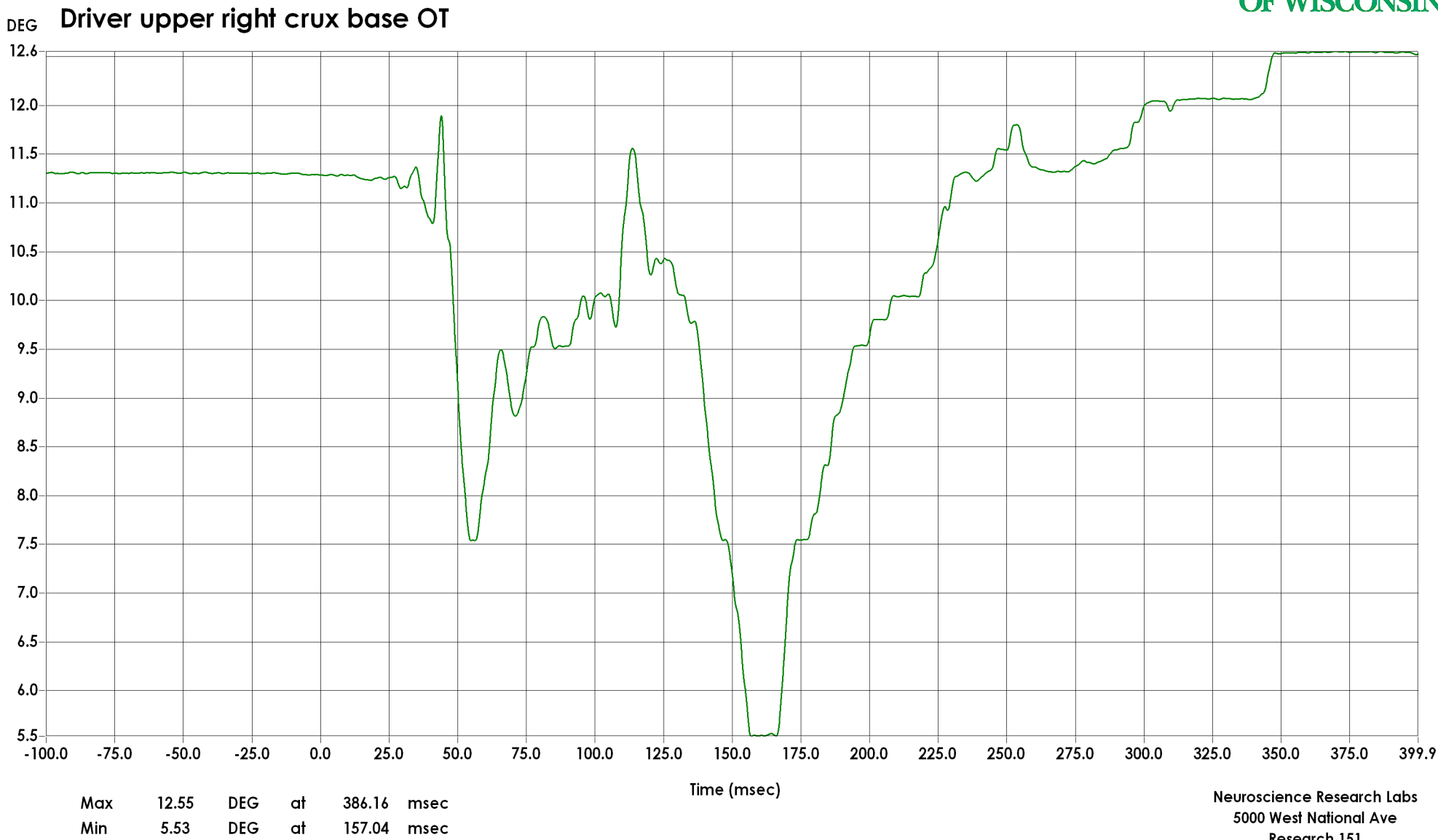
Sensor Location ABDU
Sensor Info Space Age 300647
Serial Number 0252



Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 081

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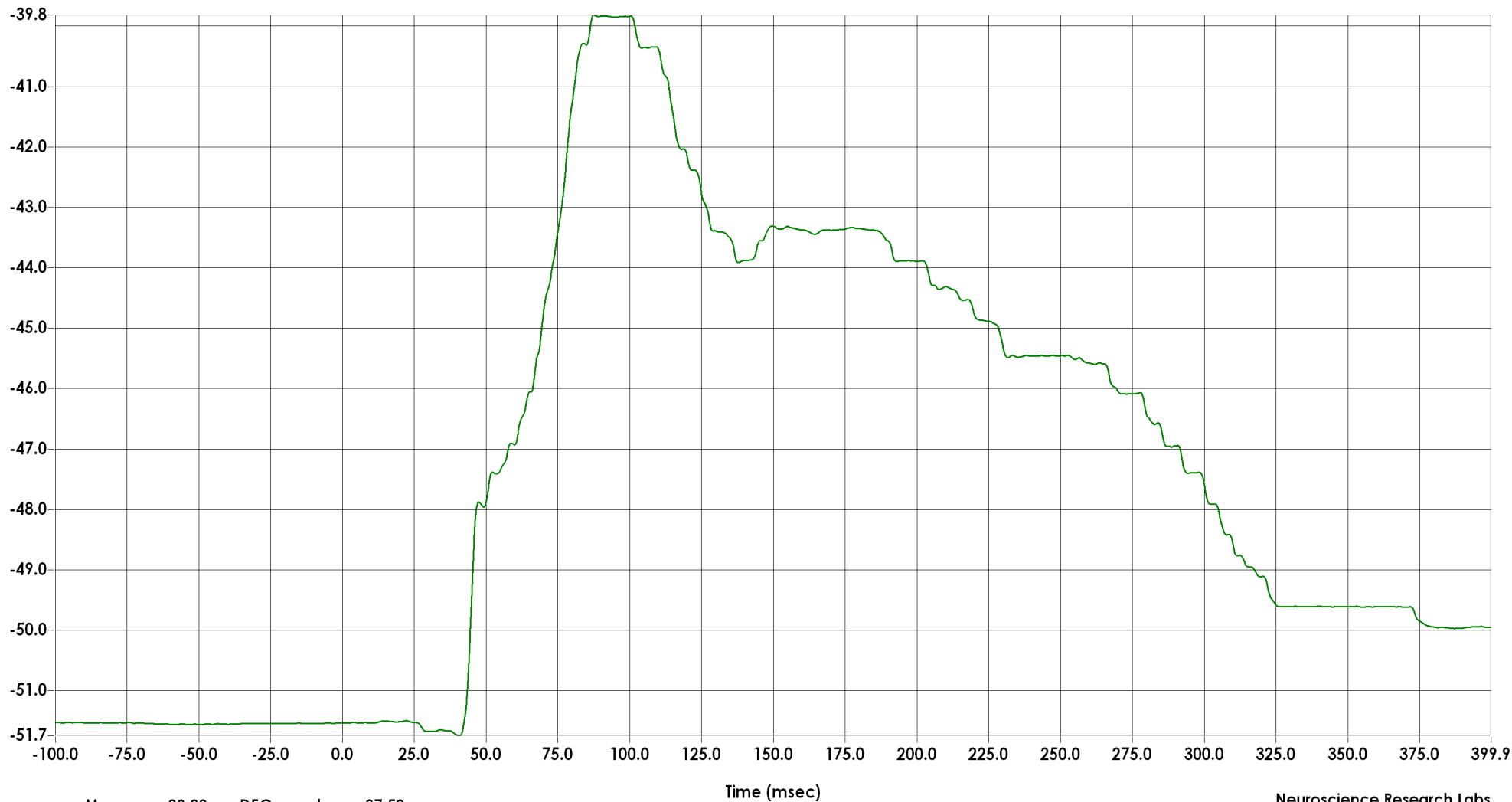
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



DEG Driver upper right crux mid OT



Max -39.82 DEG at 87.52 msec
Min -51.75 DEG at 40.72 msec

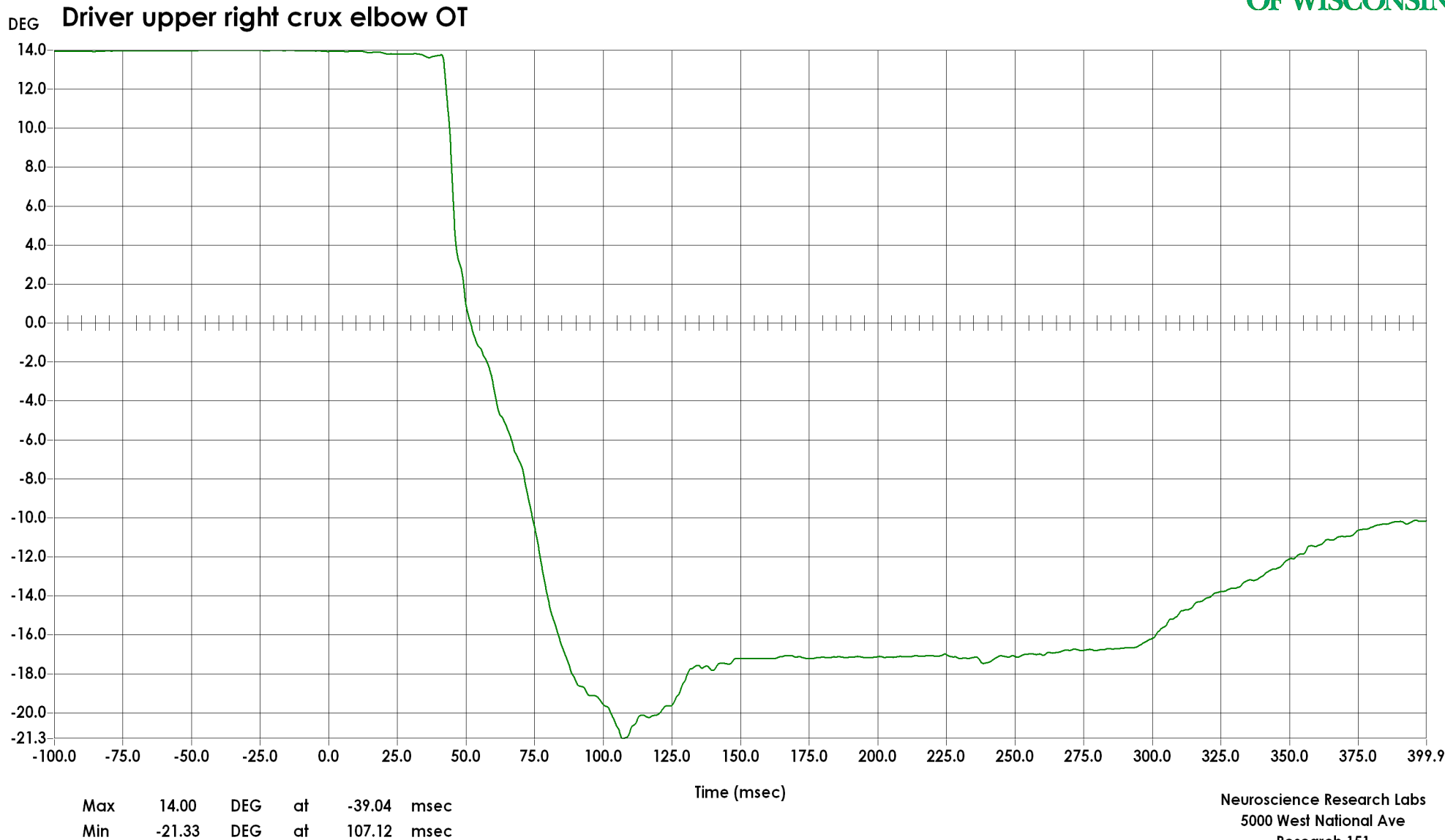
SOI001 Plot 082

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 083

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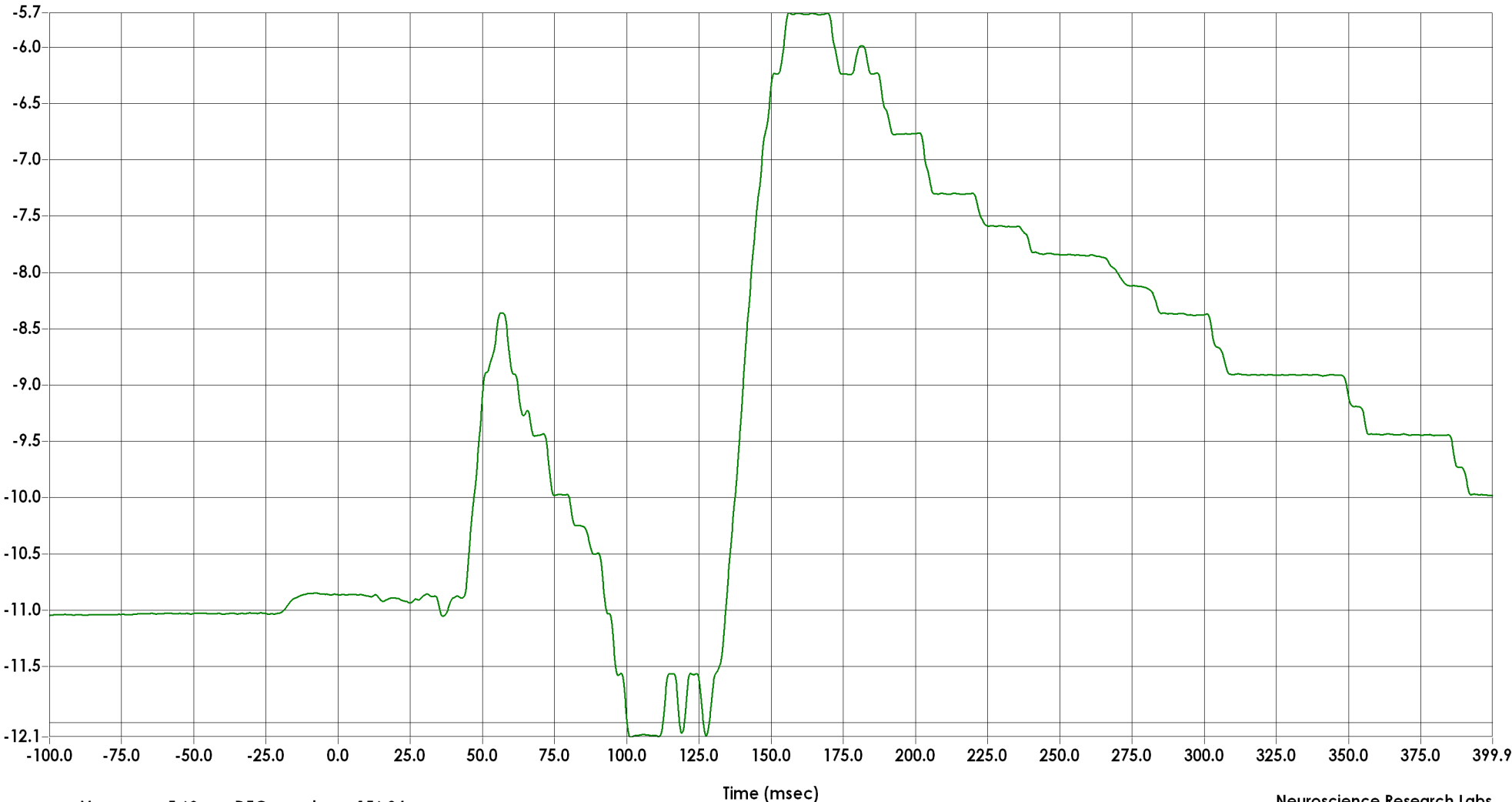
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



DEG Driver upper left crux base OT



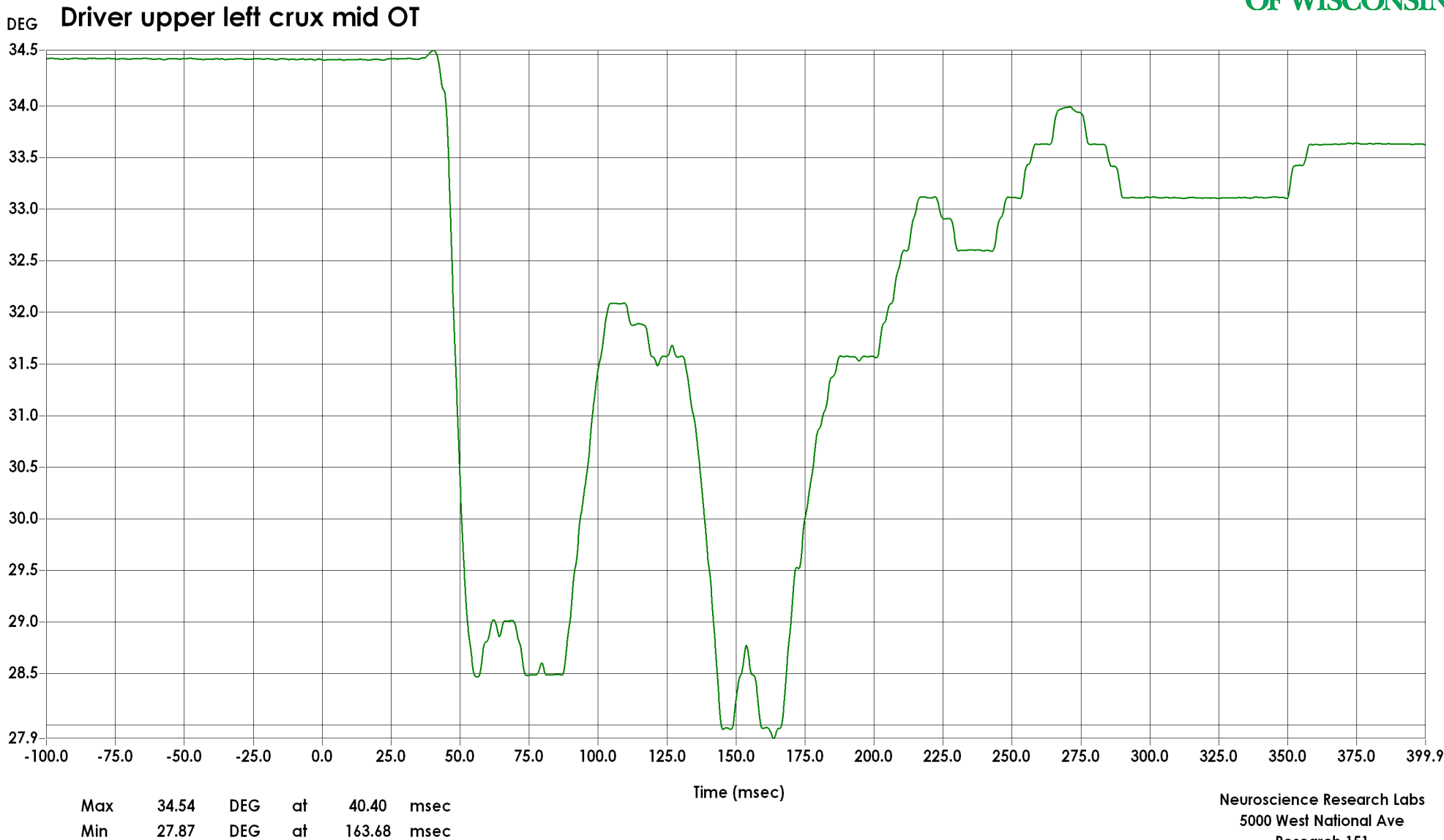
Max -5.69 DEG at 156.24 msec
Min -12.13 DEG at 101.52 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 085

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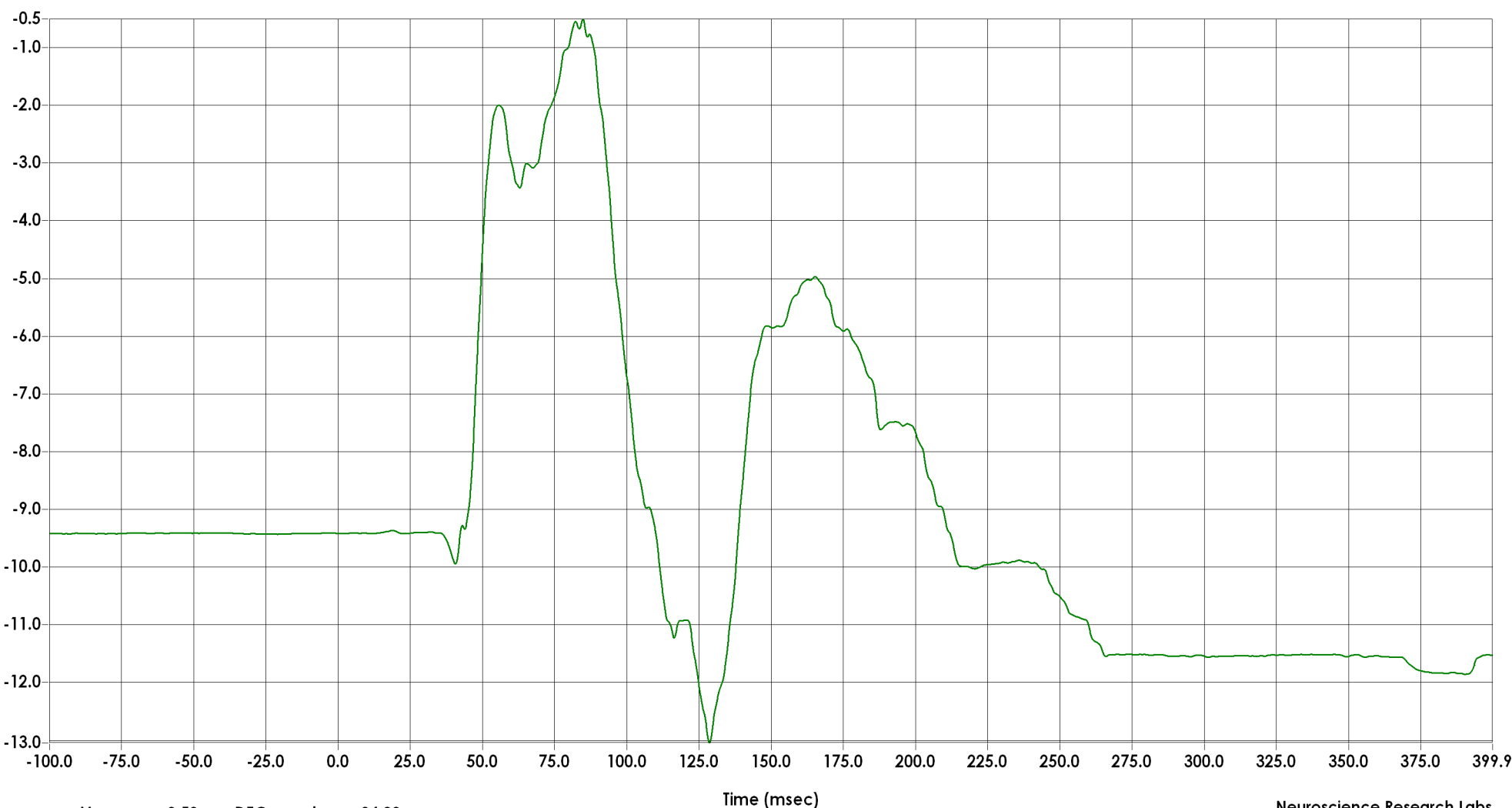
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



DEG Driver upper left crux elbow OT

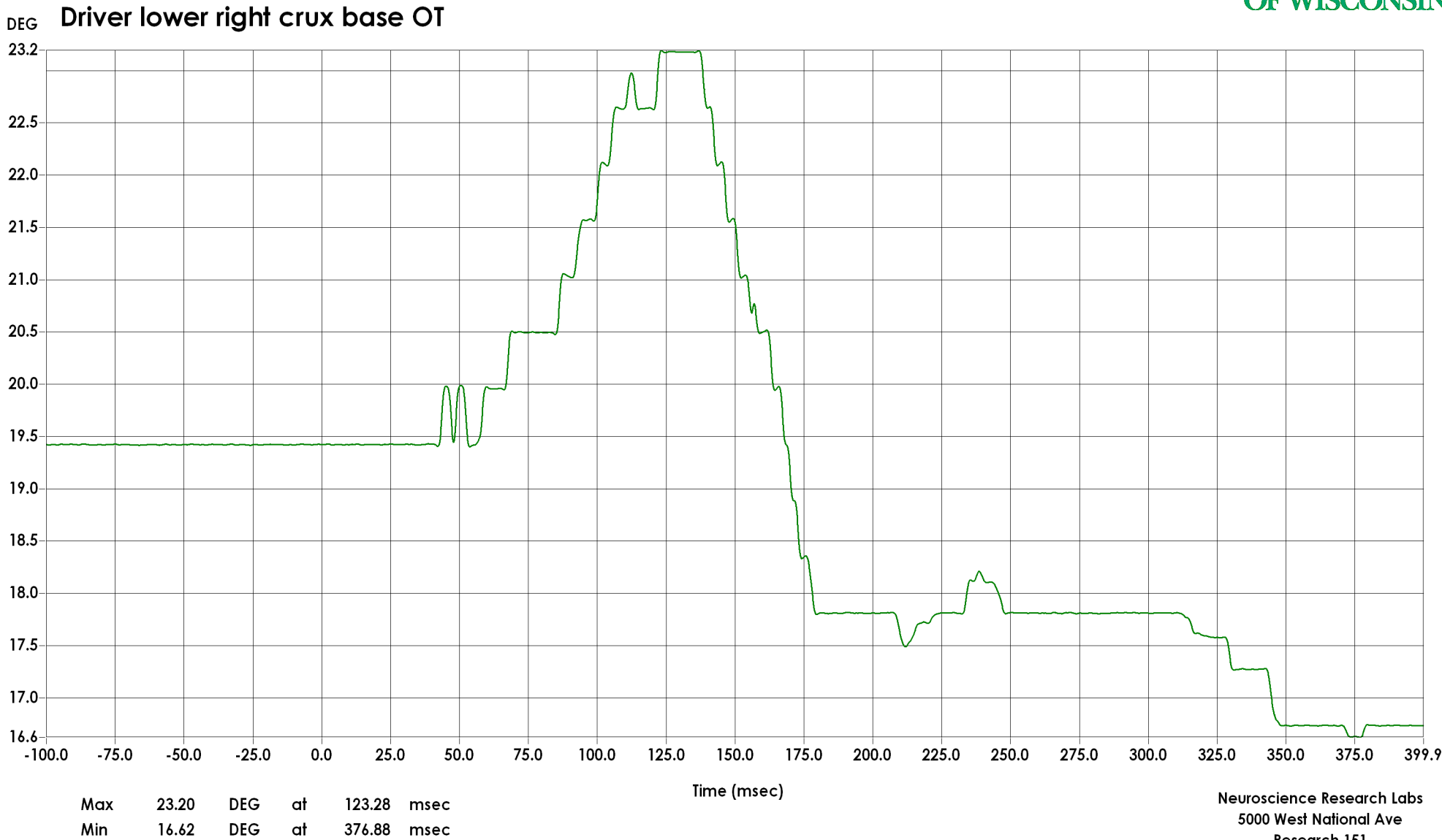


Max -0.50 DEG at 84.80 msec
Min -13.05 DEG at 128.64 msec

Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

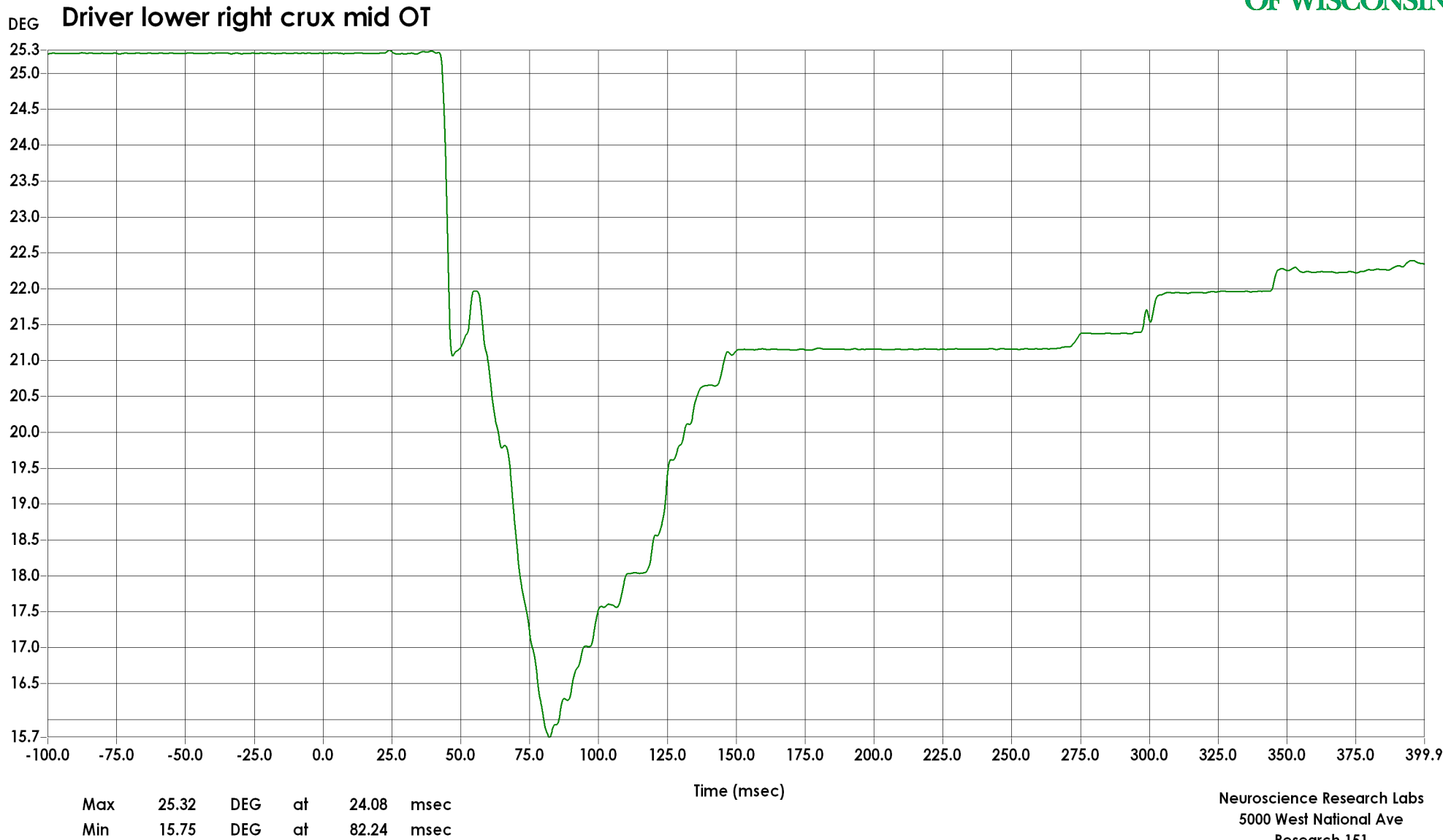
Sensor Location CHRL
Sensor Info CONTELEC PD210-4B
Serial Number 0278



Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

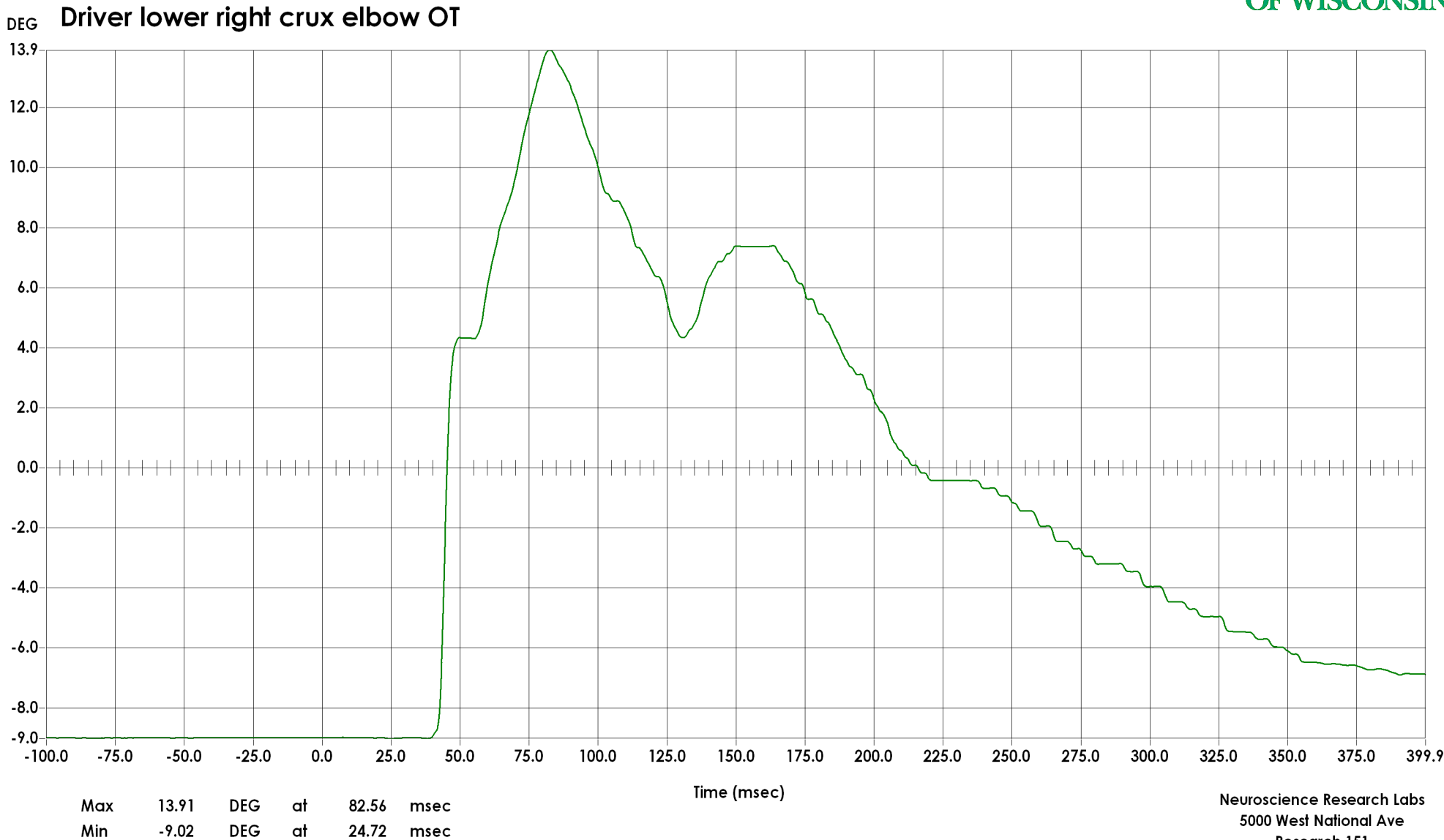
Sensor Location CHRL
Sensor Info CONTELEC PD210-4B
Serial Number 0463



Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



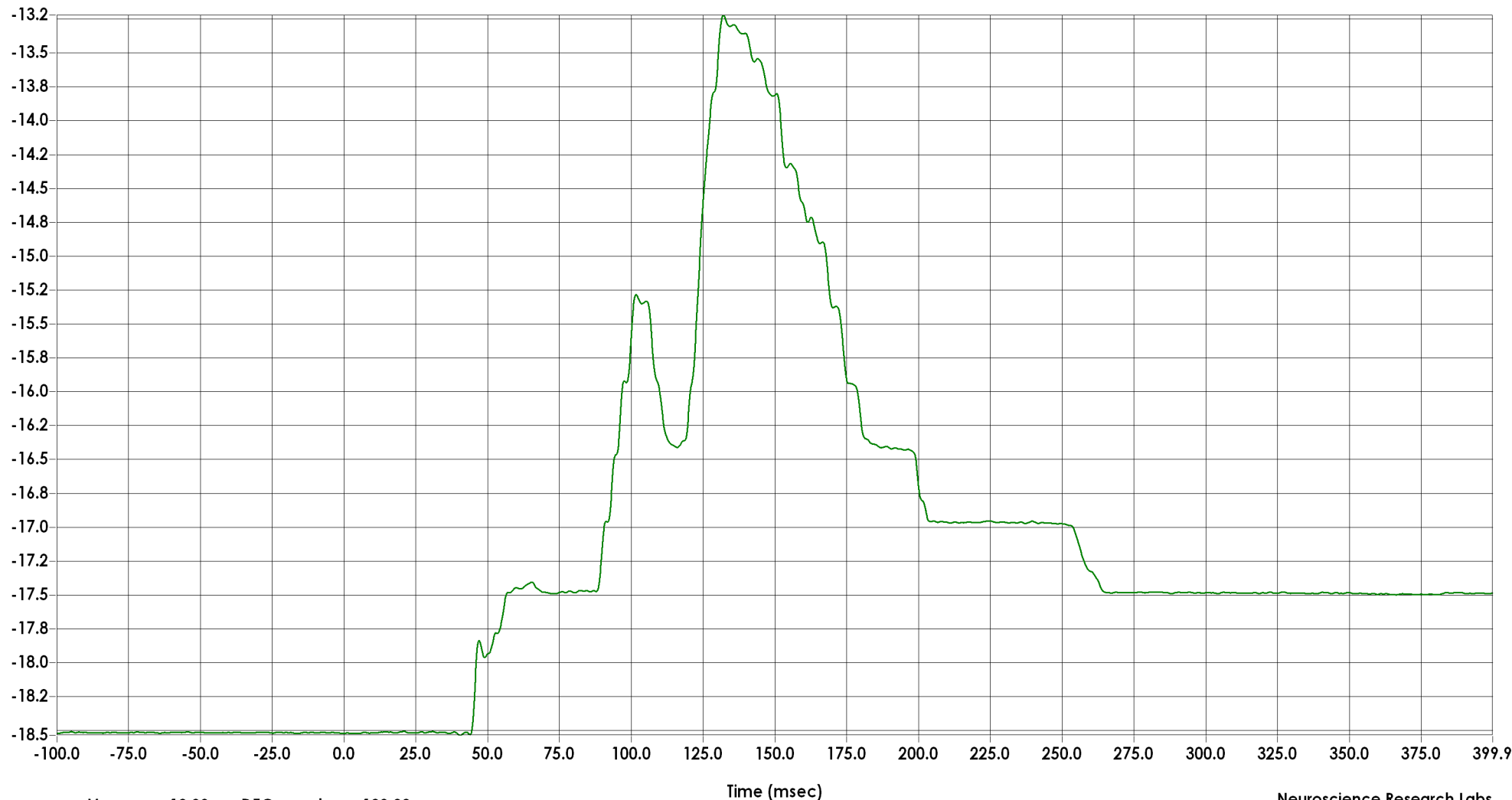
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



DEG Driver lower left crux base OT



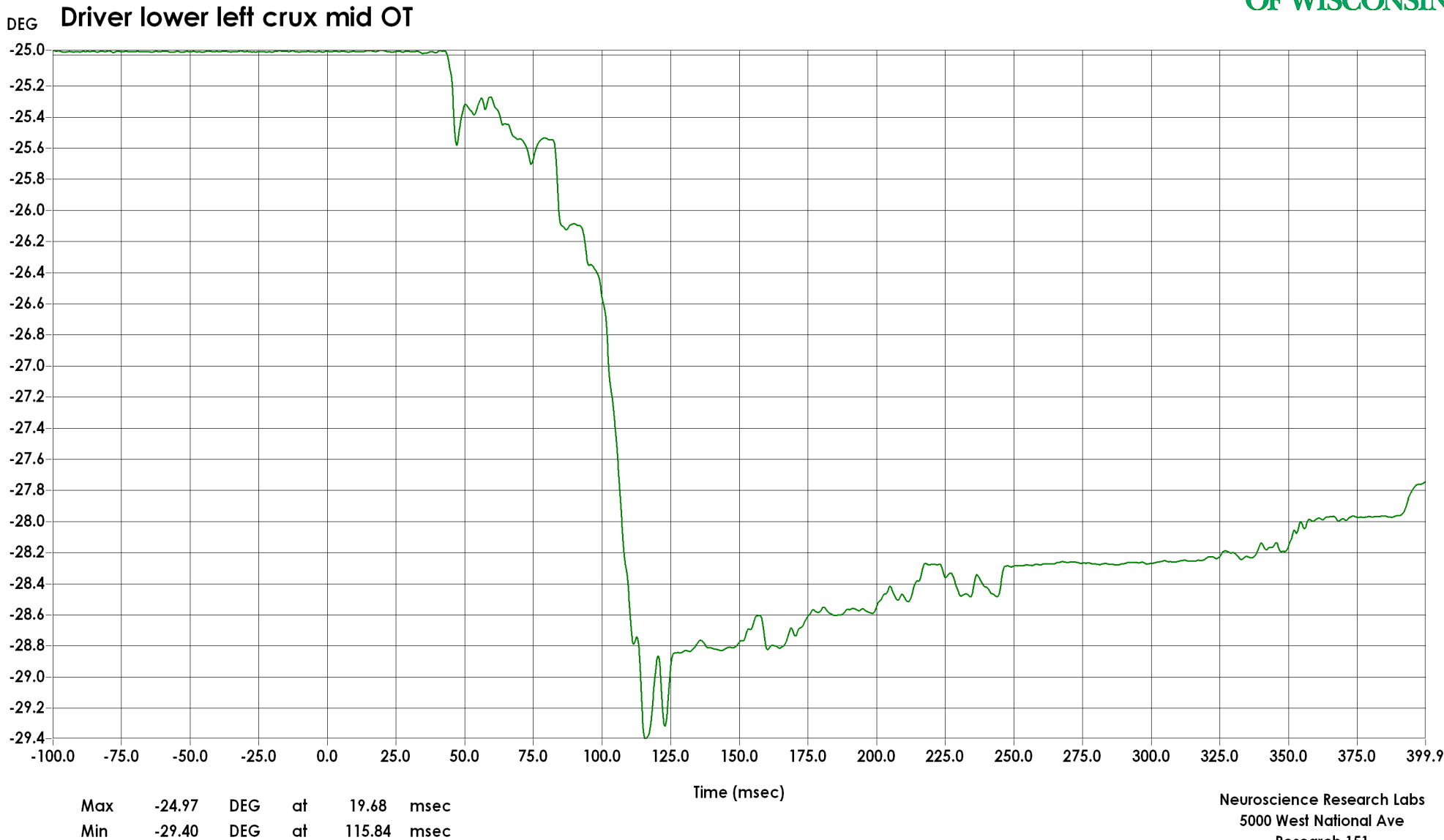
Max -13.22 DEG at 132.08 msec
Min -18.54 DEG at 40.48 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 091

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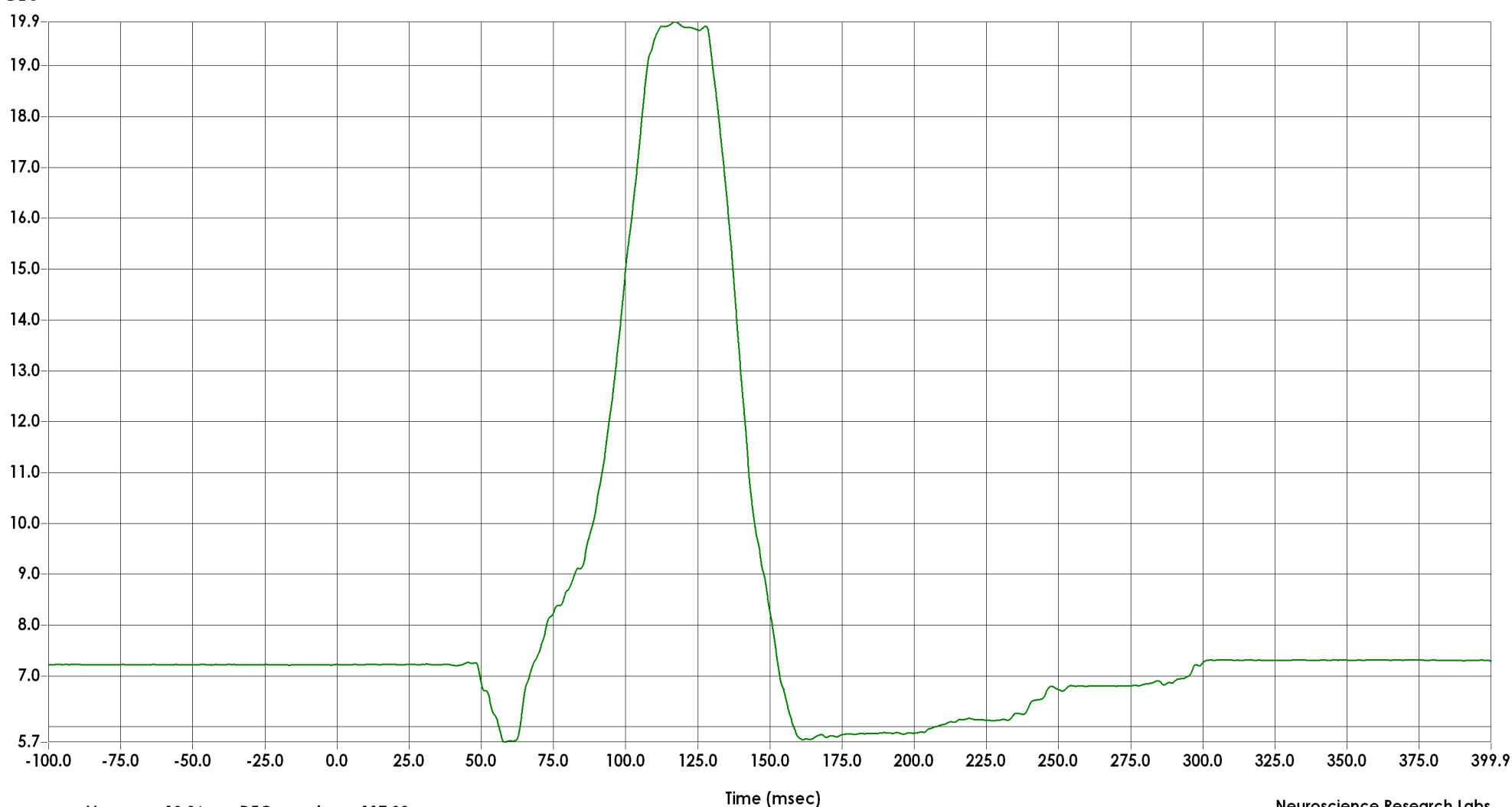
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



DEG Driver lower left crux elbow OT



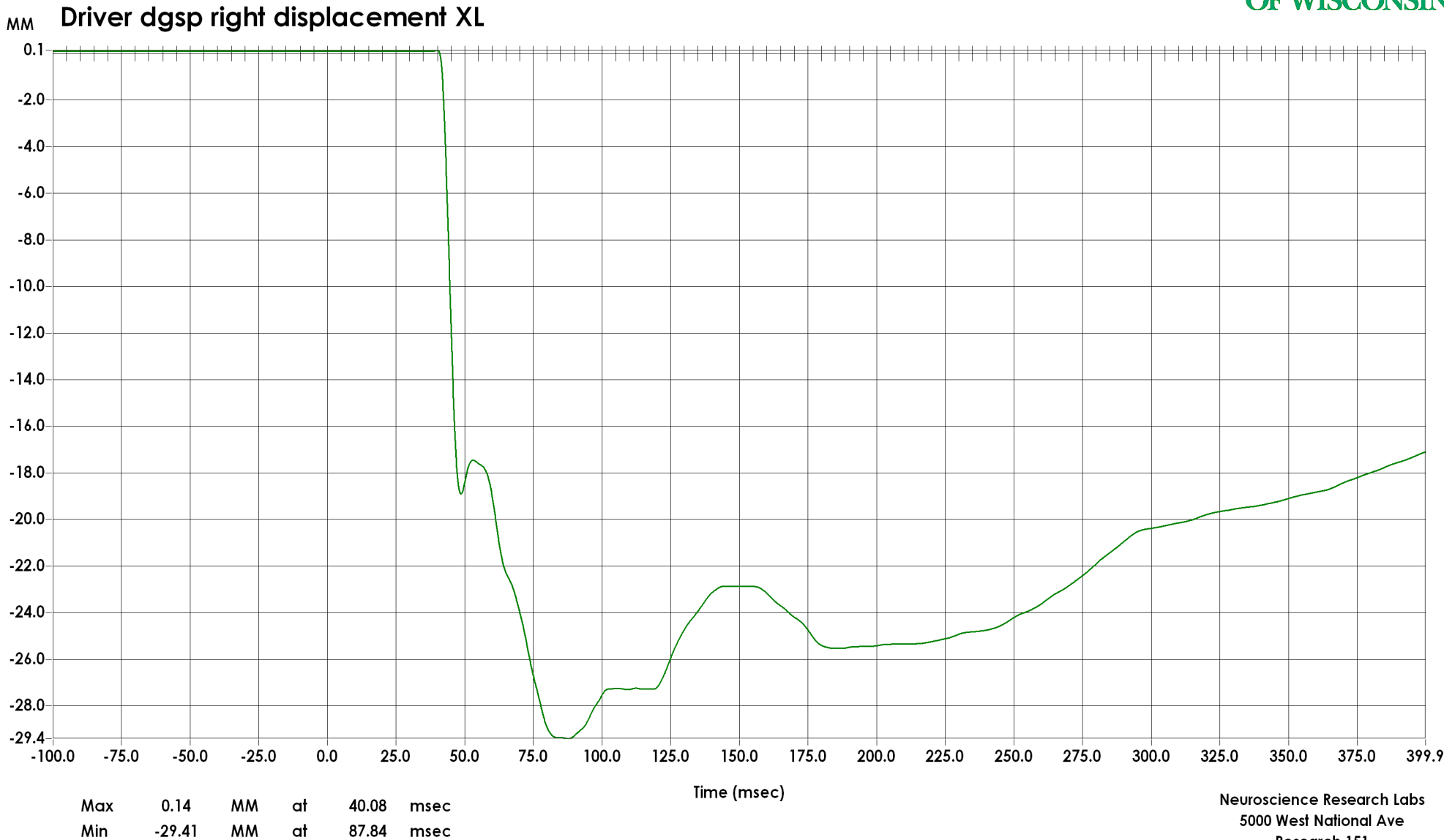
Max 19.86 DEG at 117.20 msec
Min 5.69 DEG at 58.08 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location ABDR
Sensor Info Space Age
Serial Number 0257



Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location ABDR
Sensor Info Space Age
Serial Number 0105



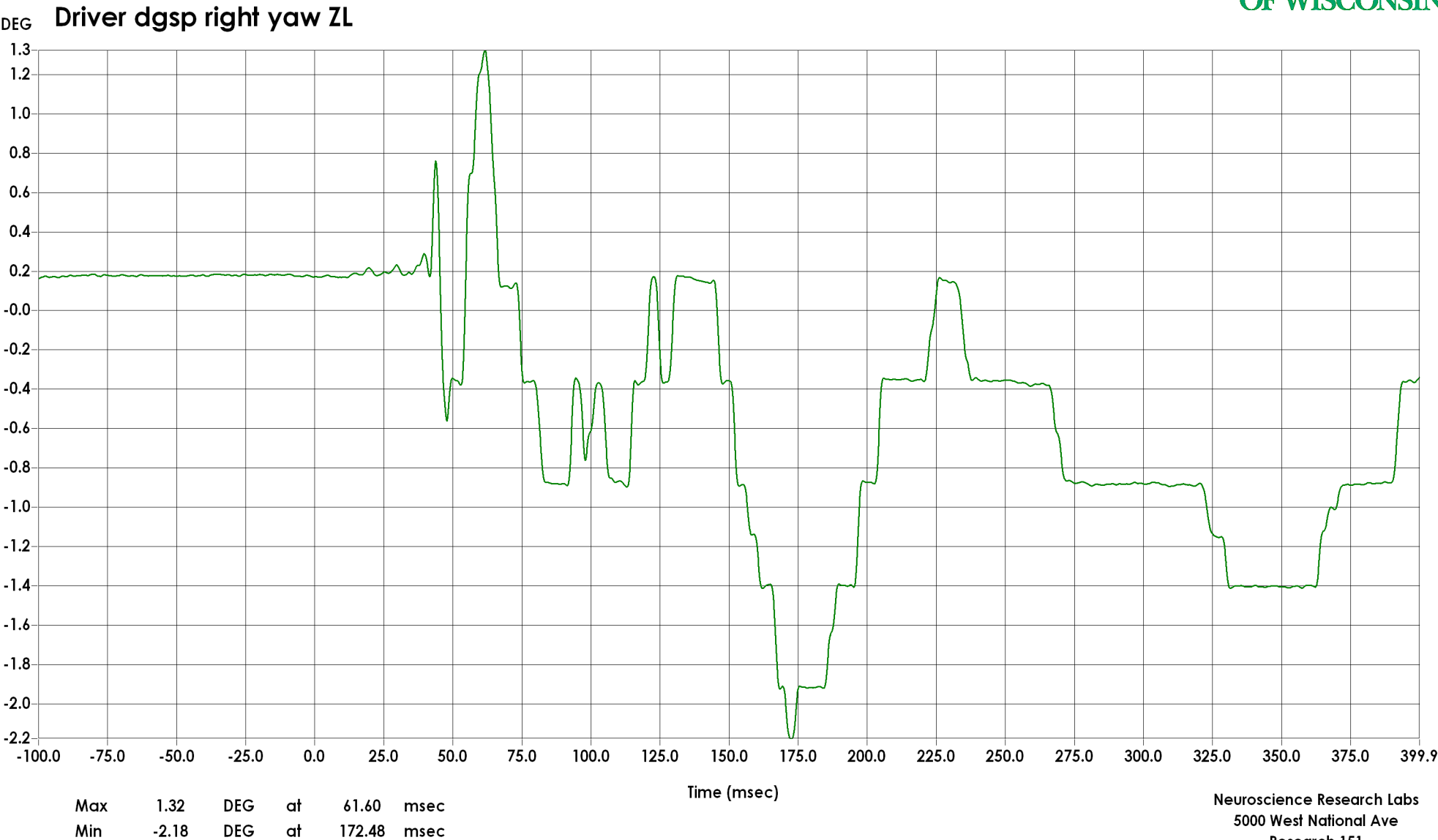
SOI001 Plot 094

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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

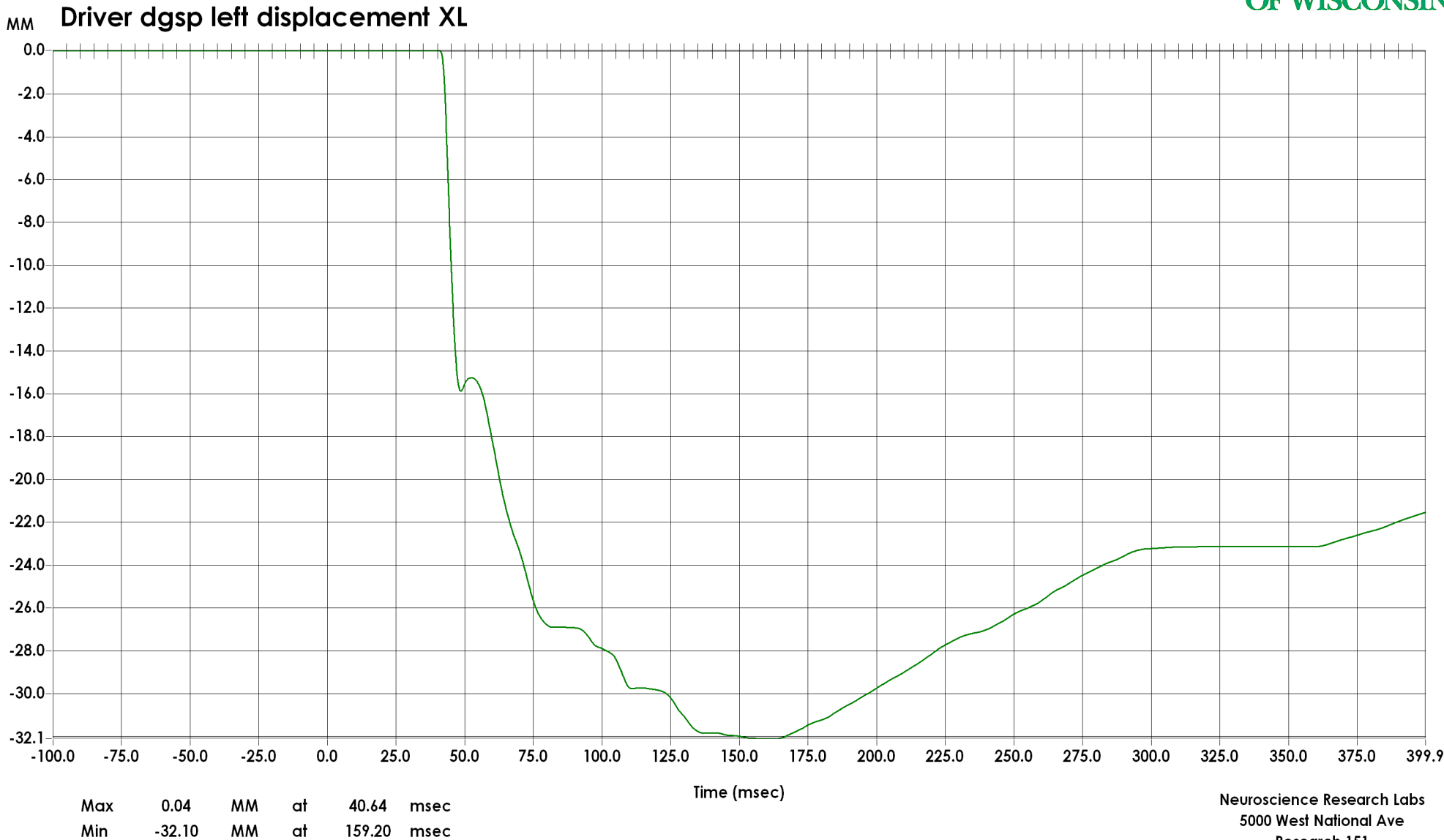


Max 1.32 DEG at 61.60 msec
Min -2.18 DEG at 172.48 msec

Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

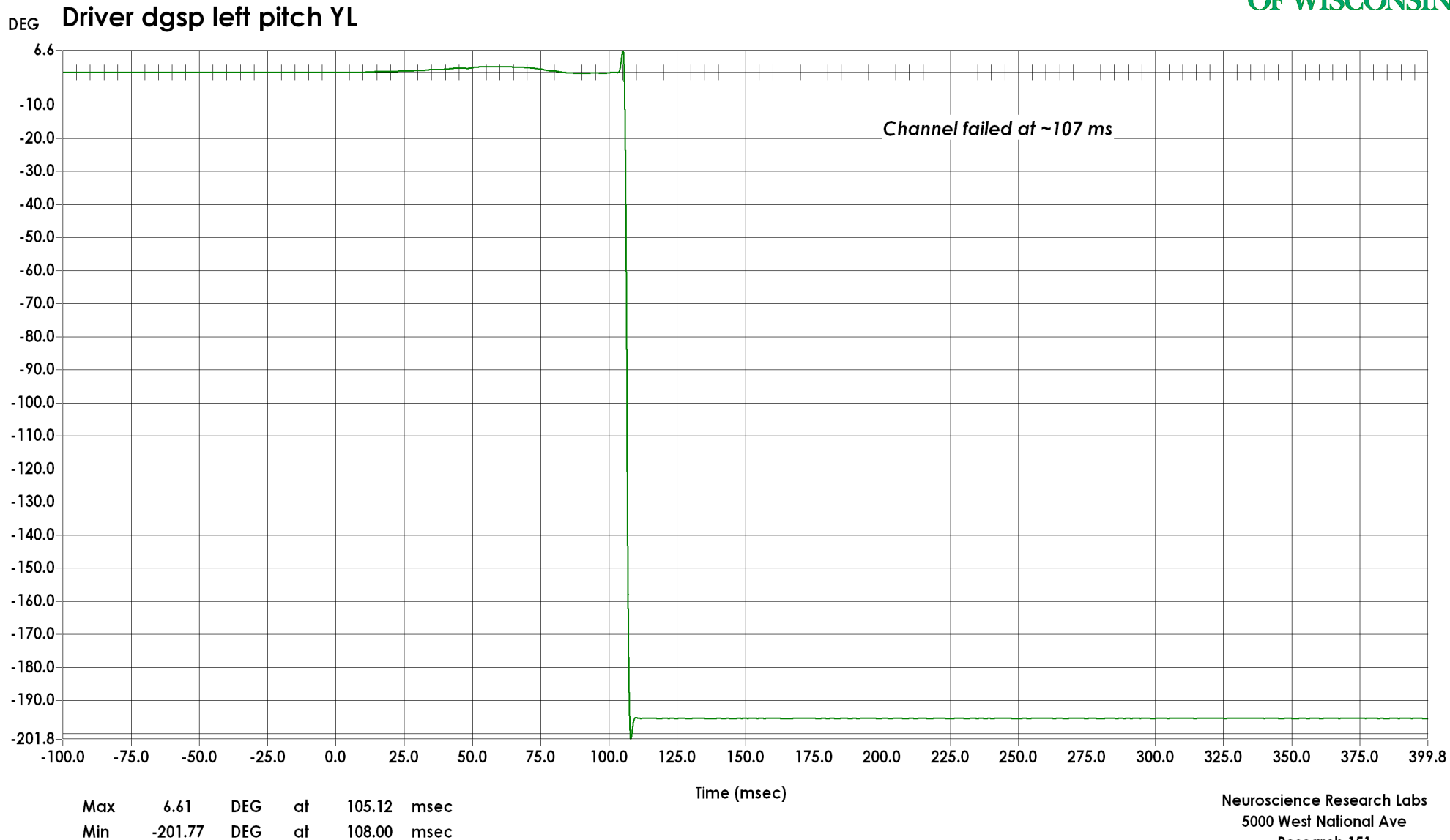
Sensor Location ABDL
Sensor Info Space Age
Serial Number 025



Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location ABDL
Sensor Info Space Age
Serial Number 0101



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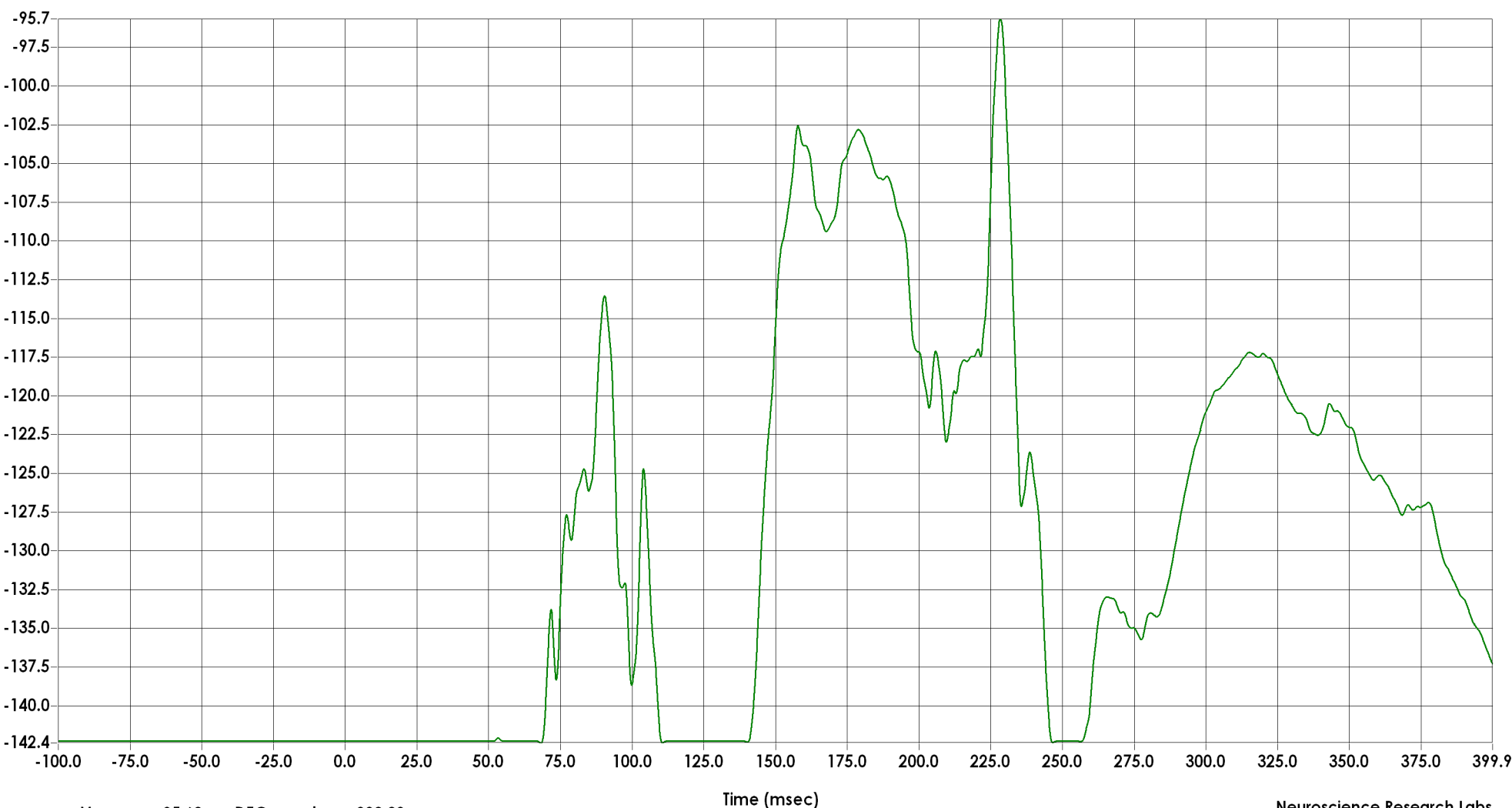
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



DEG Driver dgsp left yaw ZL



Max -95.68 DEG at 228.32 msec
Min -142.40 DEG at 68.24 msec

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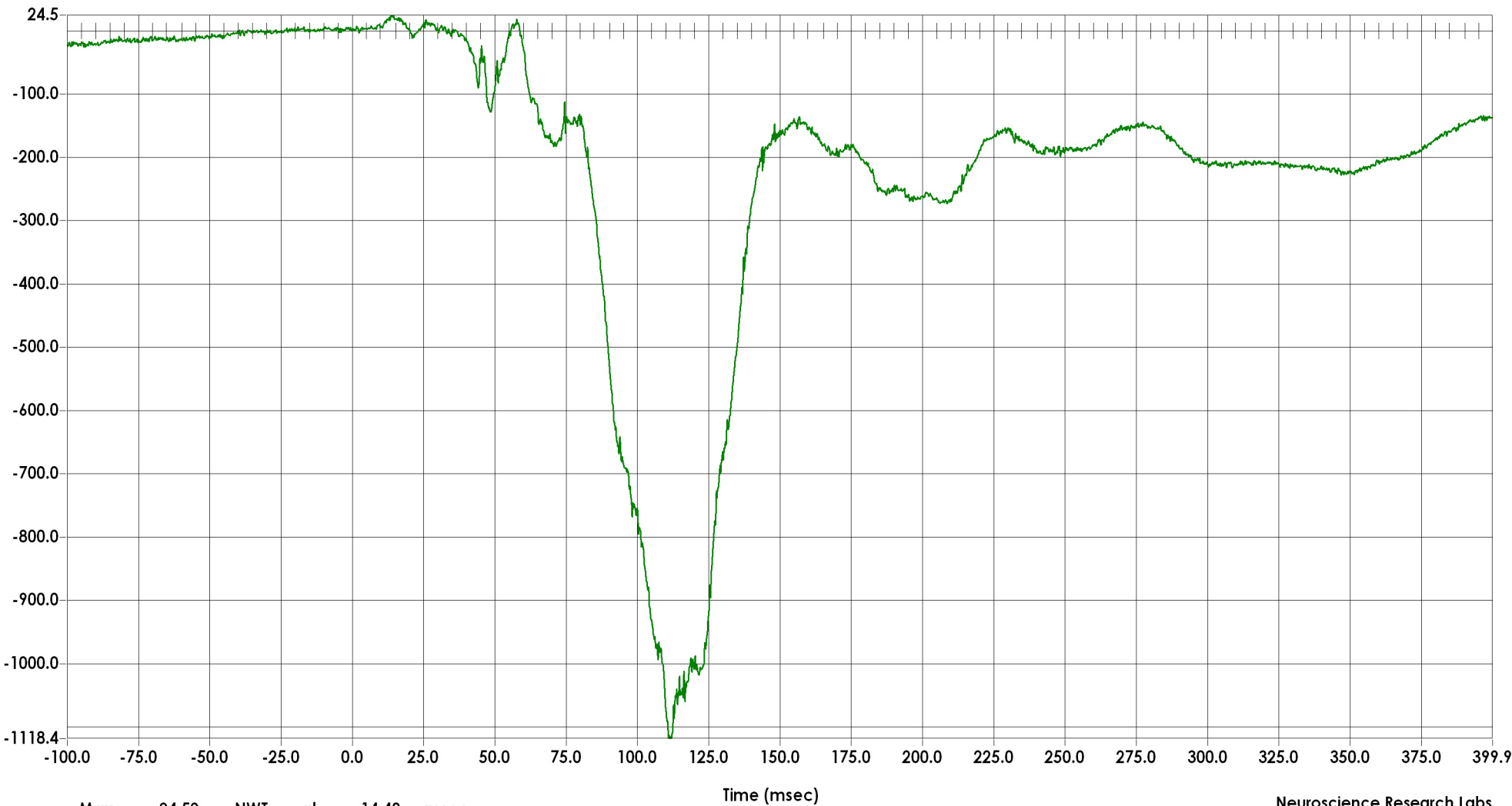
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver t12 force XL



Max 24.52 NWT at 14.48 msec
Min -1118.39 NWT at 111.52 msec

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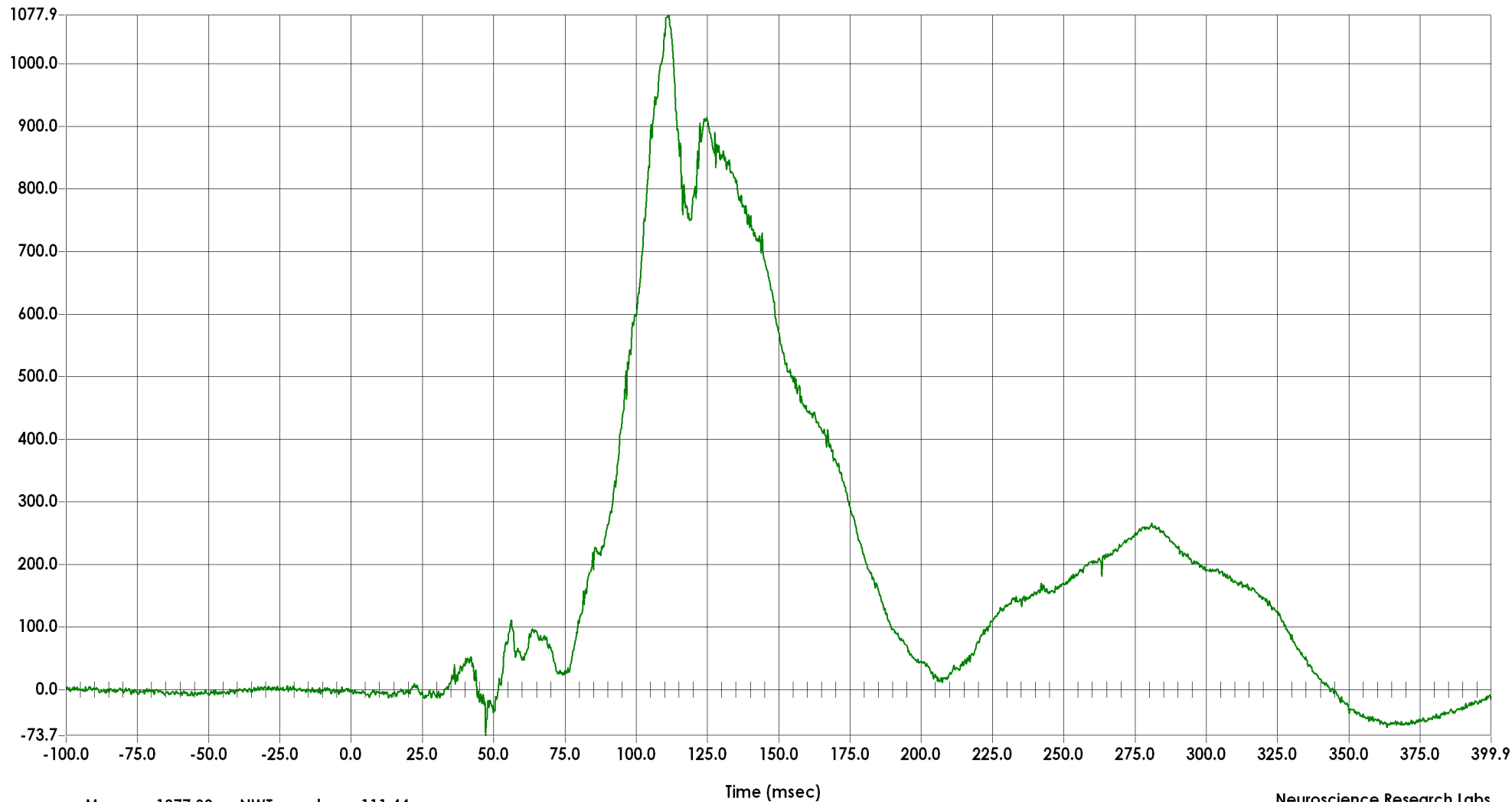
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver f12 force YL



Max 1077.90 NWT at 111.44 msec
Min -73.69 NWT at 47.20 msec

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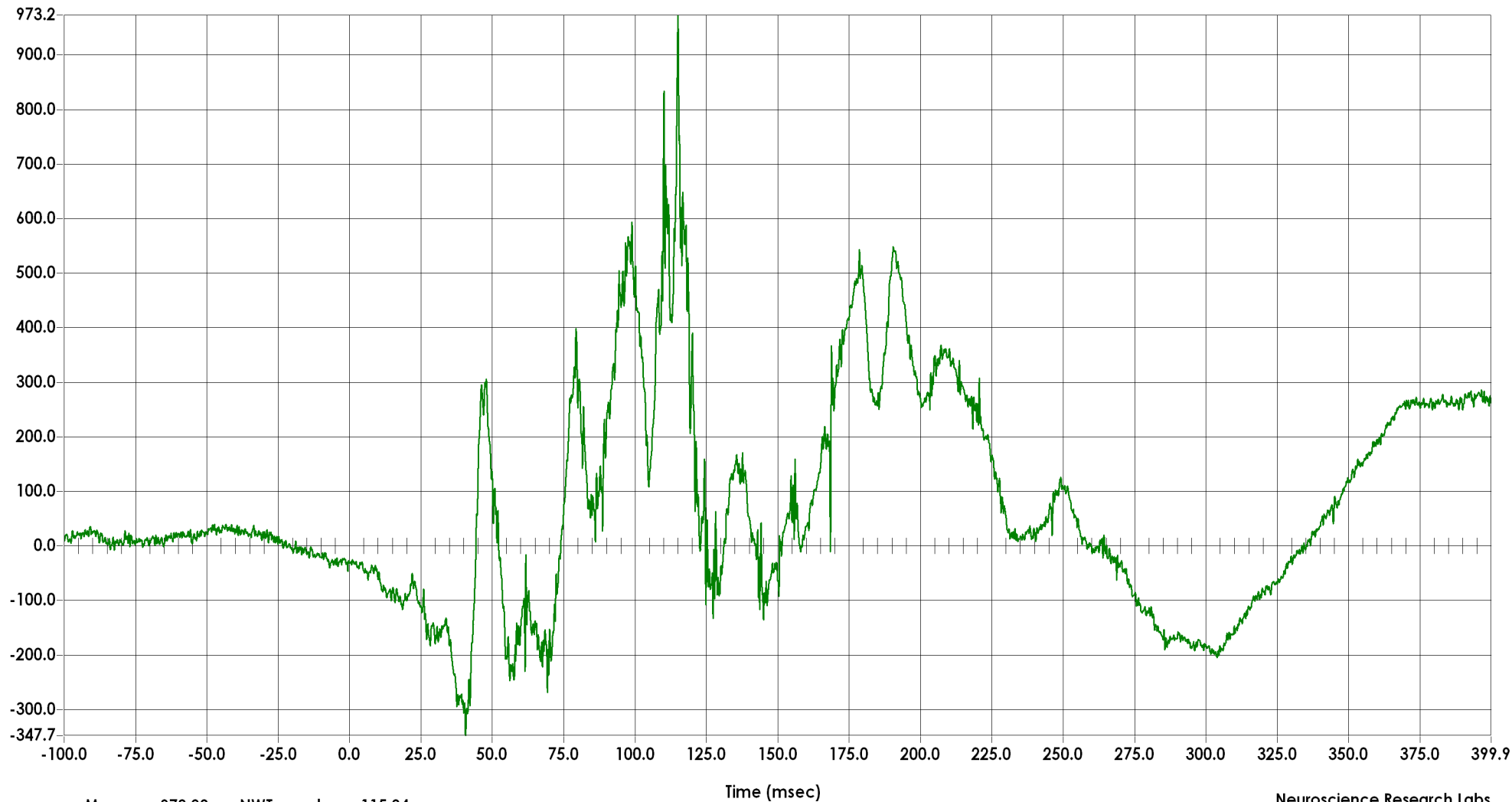
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location SPNL
Sensor Info Denton 1911A
Serial Number 1911A_122_FZ



NWT Driver f12 force ZL



Max 973.20 NWT at 115.04 msec
Min -347.74 NWT at 40.64 msec

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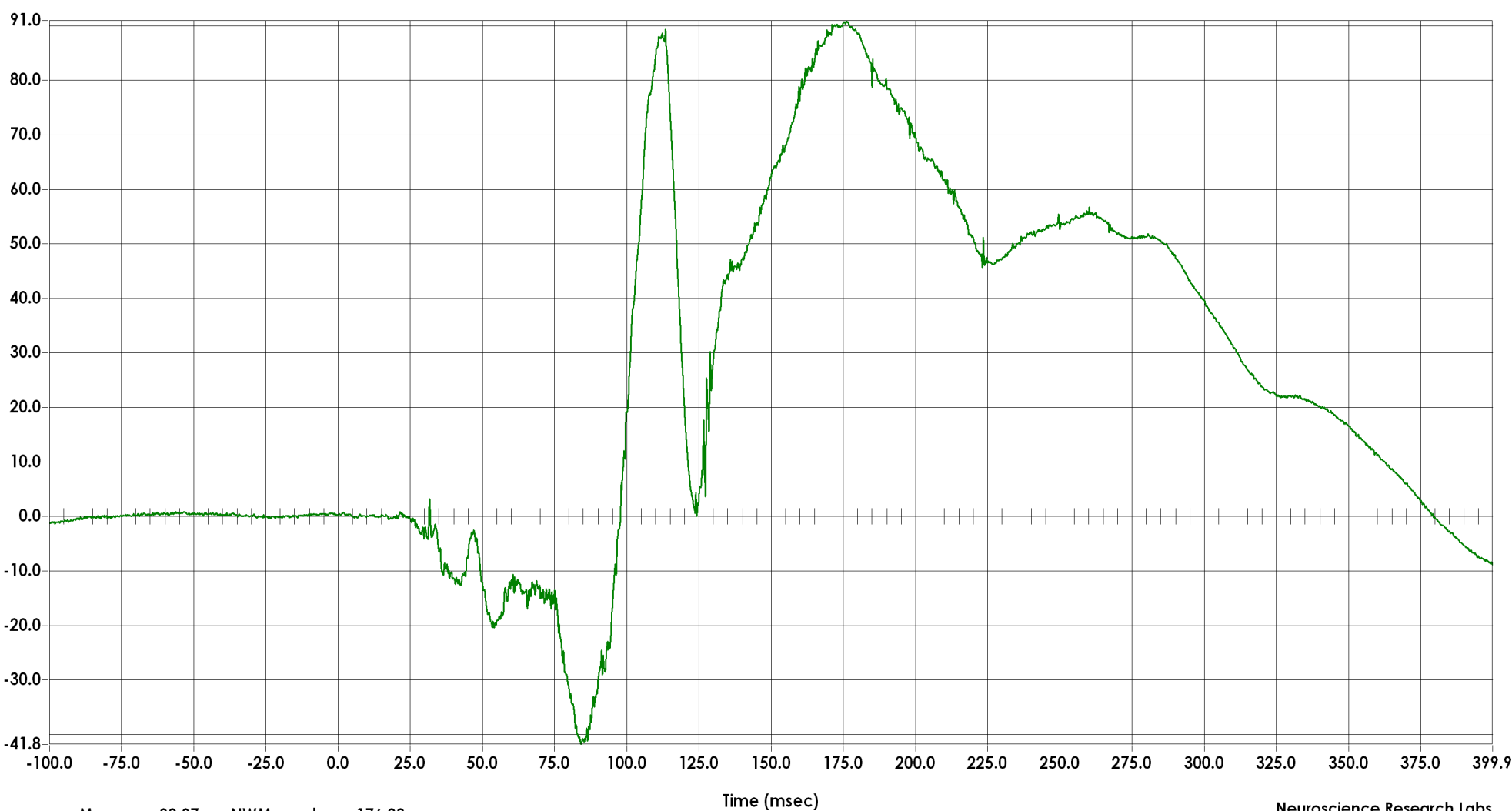
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location SPNL
Sensor Info Denton 1911A
Serial Number 1911A_122_MX



NWM Driver t12 moment XL



Max 90.97 NWM at 176.08 msec
Min -41.82 NWM at 84.16 msec

SOI001 Plot 102

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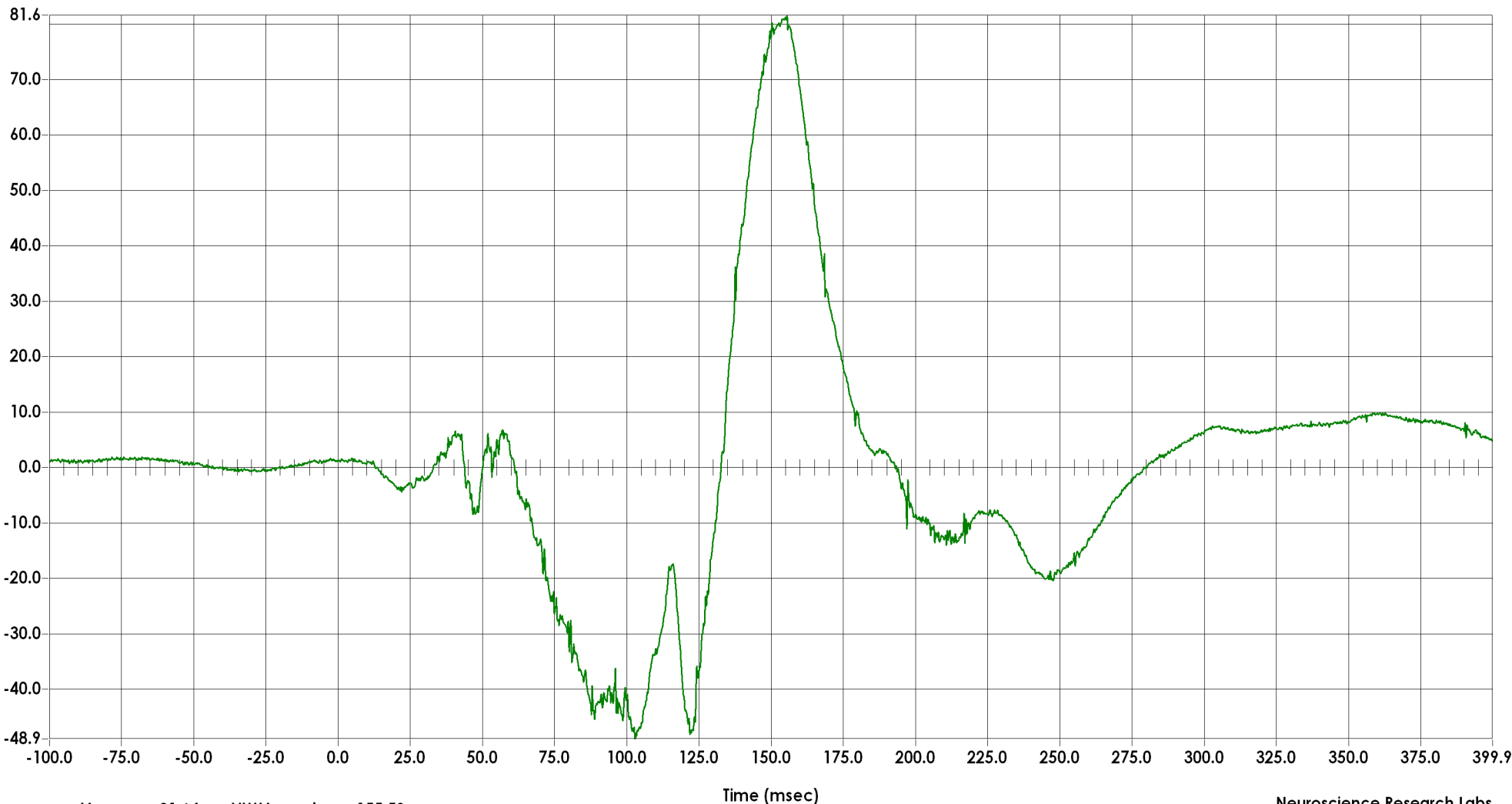
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver t12 moment YL



Max 81.64 NWM at 155.52 msec
Min -48.94 NWM at 102.80 msec

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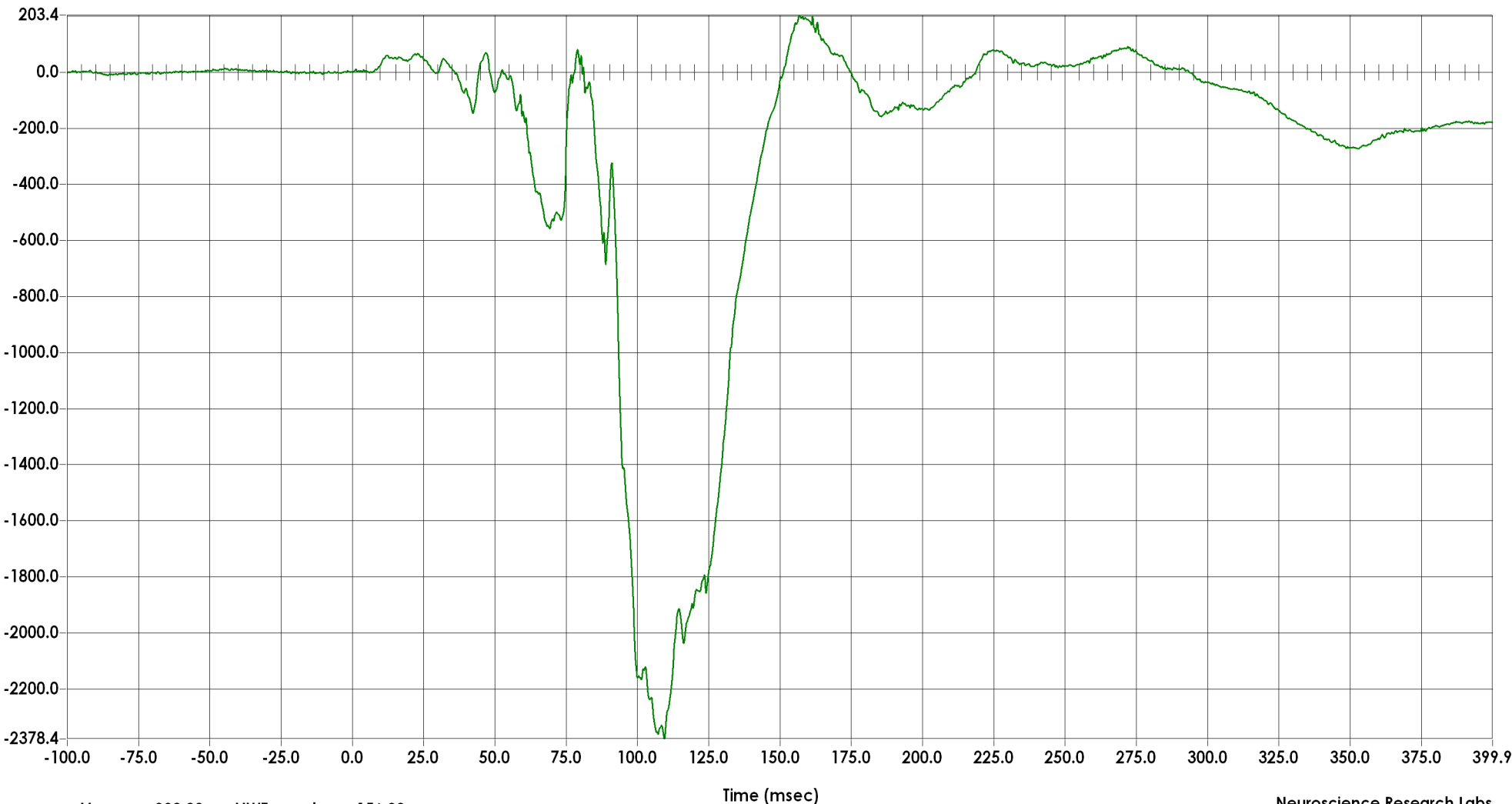
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right acetabular force XL



Max 203.38 NWT at 156.88 msec
Min -2378.38 NWT at 109.44 msec

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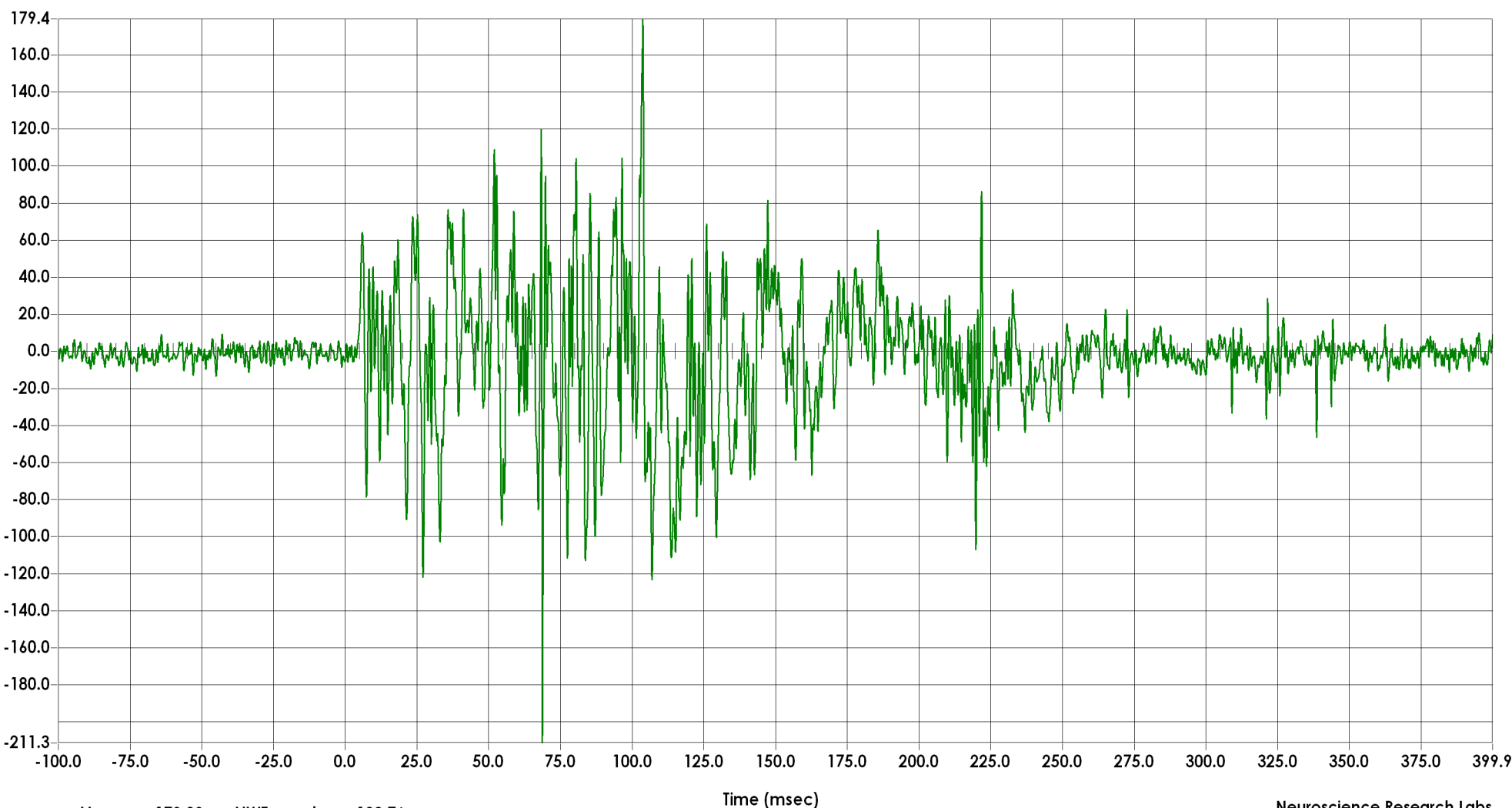
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right acetabular force YL



Max 179.39 NWT at 103.76 msec
Min -211.34 NWT at 68.72 msec

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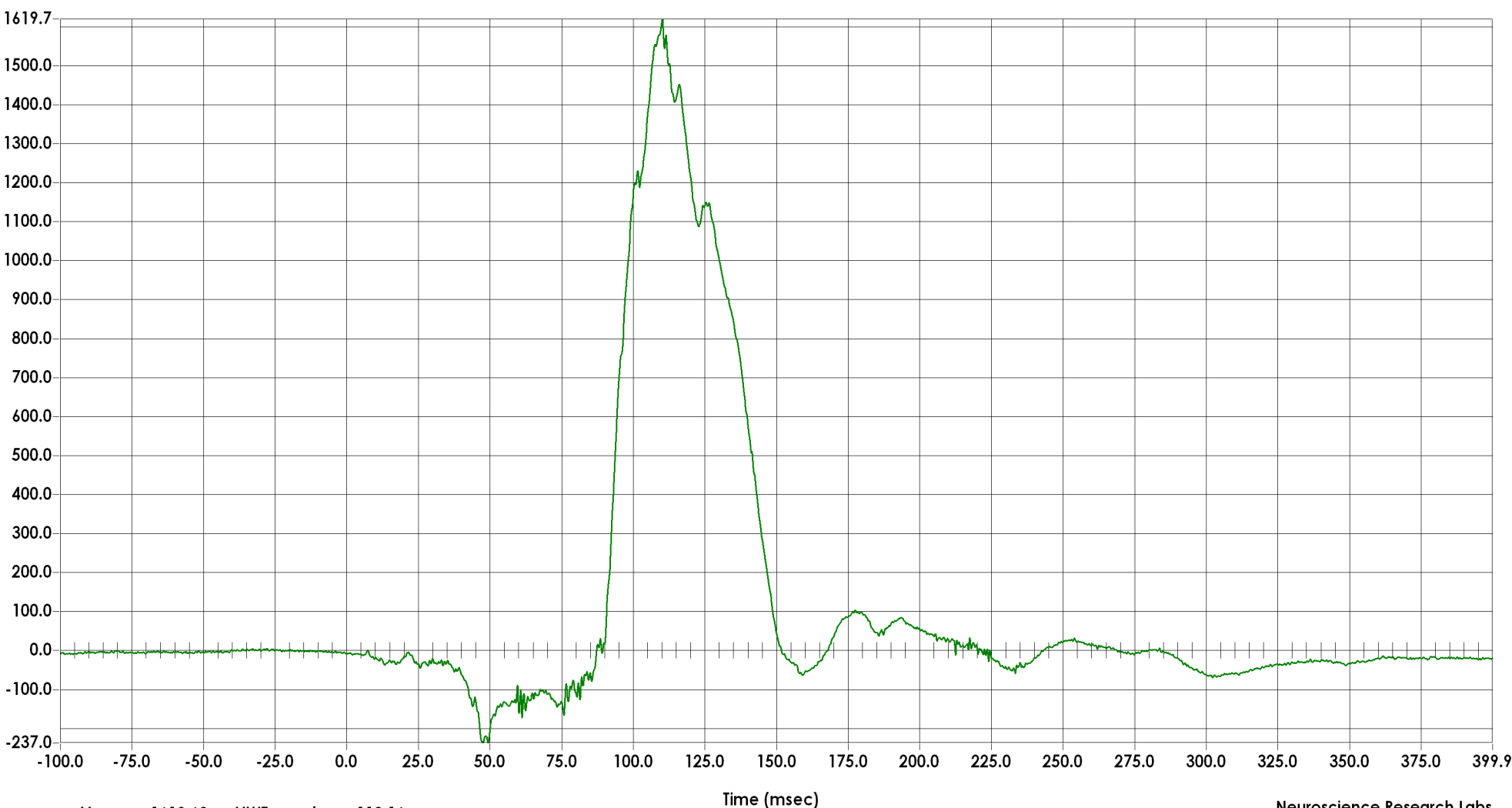
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right acetabular force ZL



Max 1619.68 NWT at 110.16 msec
Min -237.04 NWT at 47.52 msec

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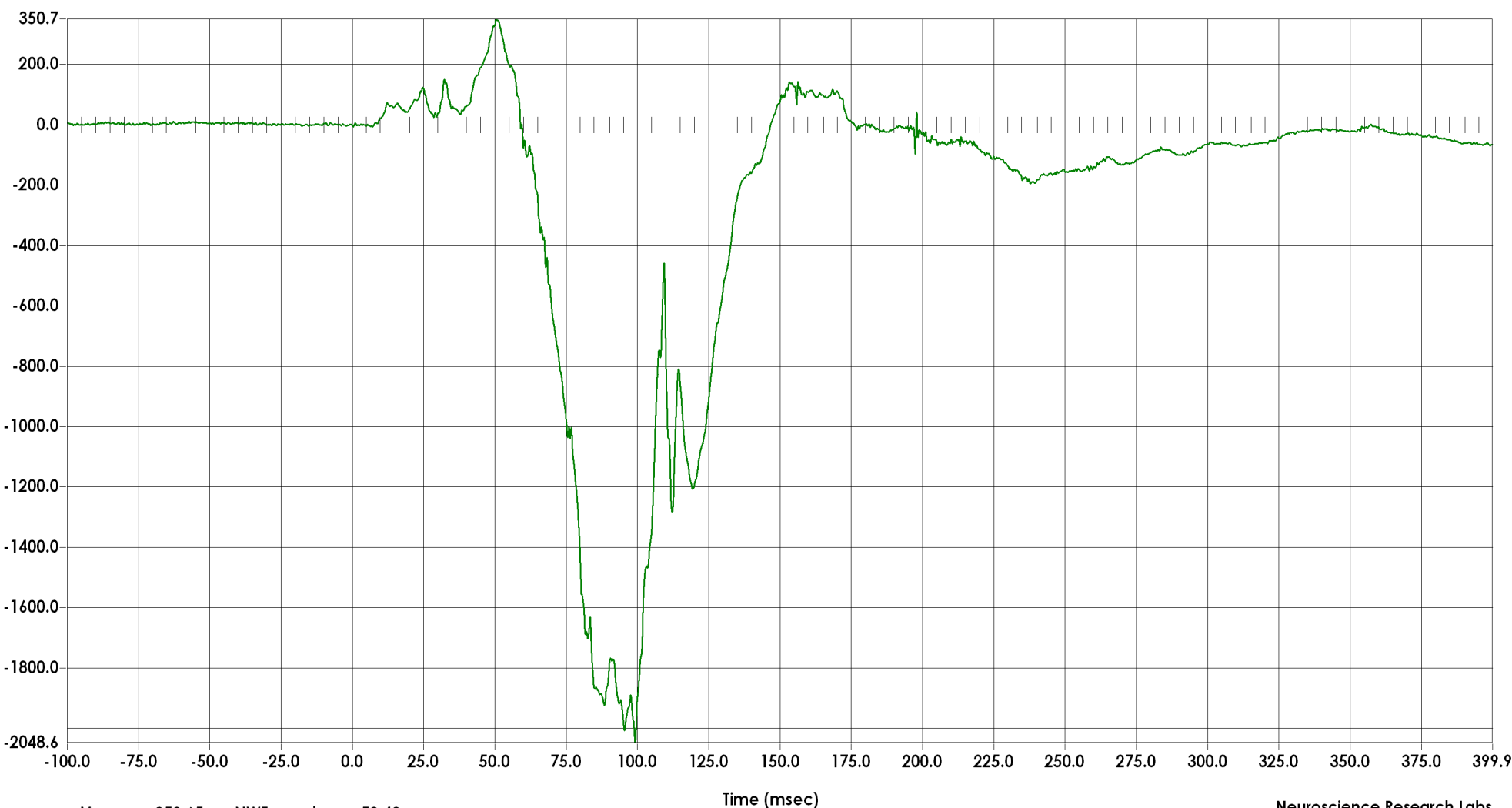
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver left acetabulum force XL



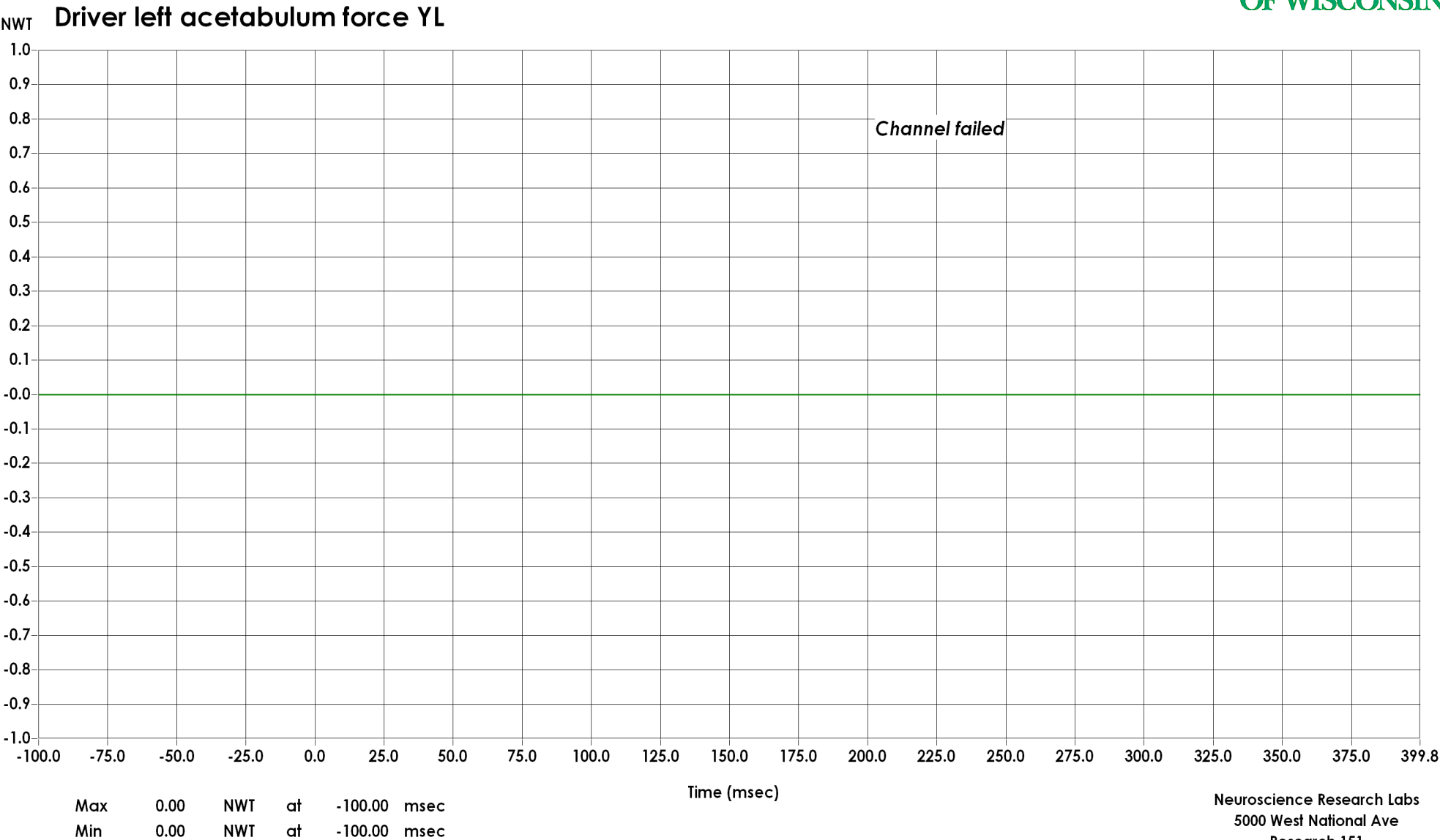
Max 350.65 NWT at 50.48 msec
Min -2048.56 NWT at 99.20 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 108

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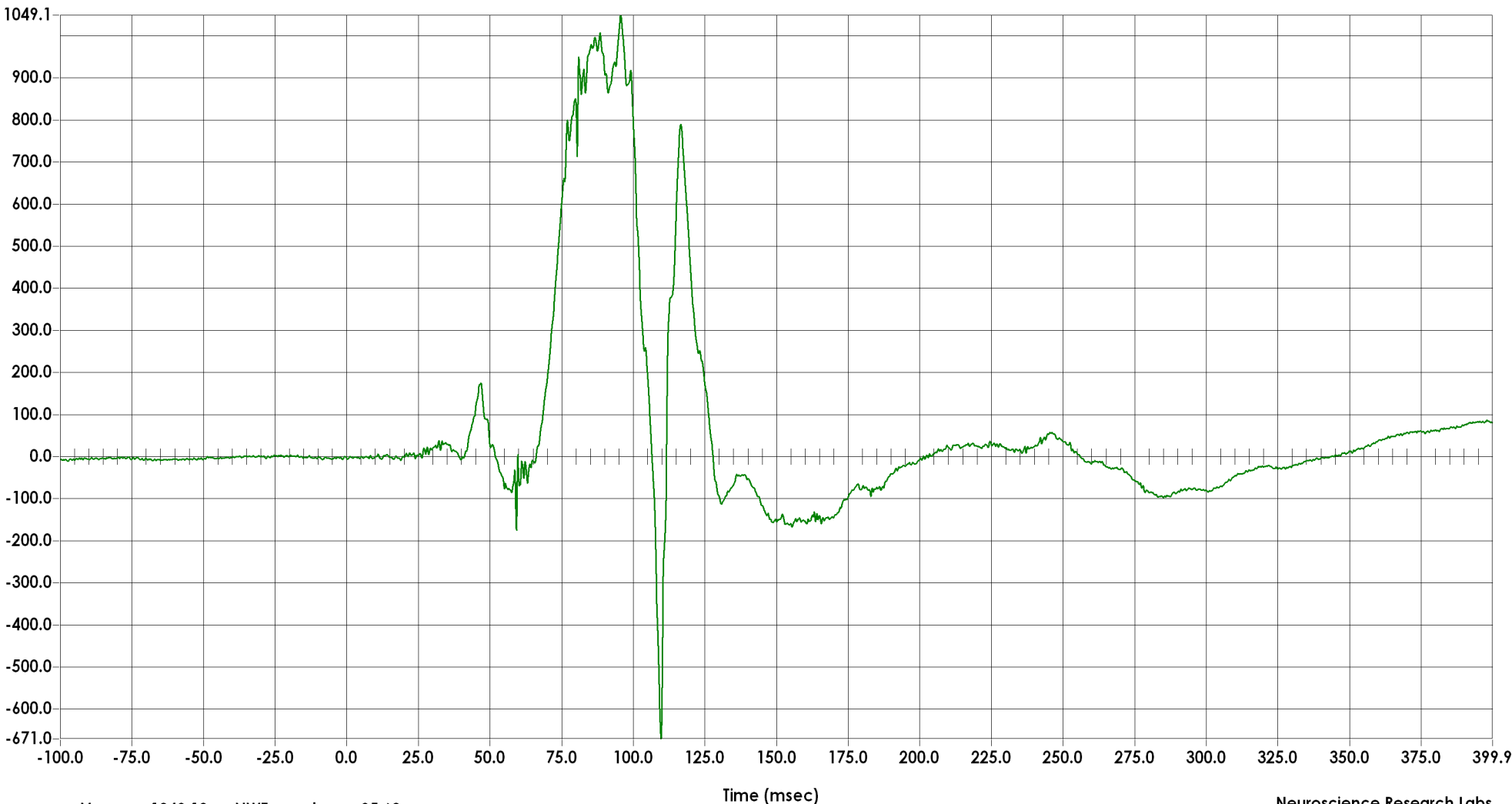
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver left acetabulum force ZL



Max 1049.12 NWT at 95.60 msec
Min -671.00 NWT at 109.68 msec

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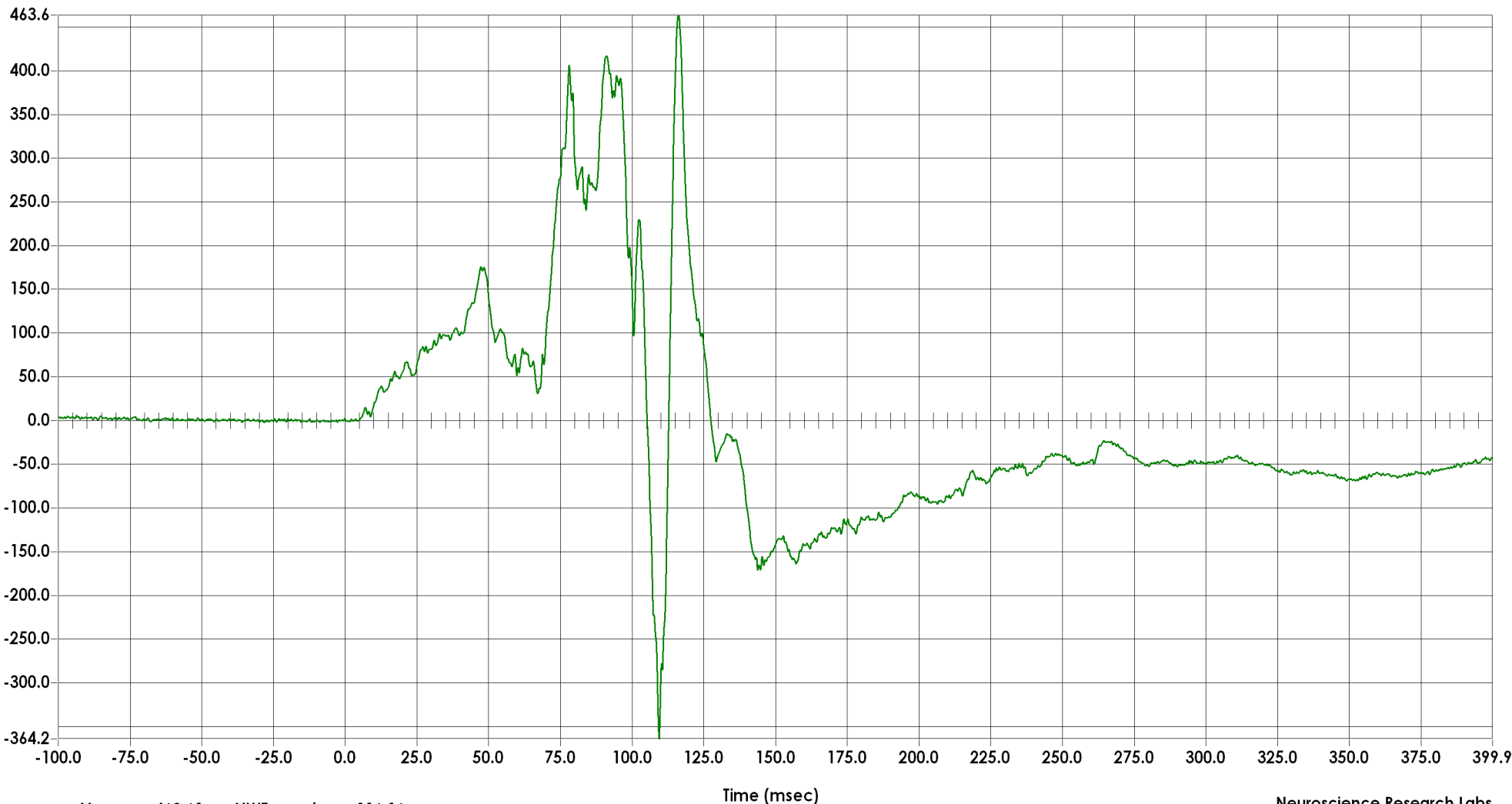
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver left femur force XL



Max 463.61 NWT at 116.16 msec
Min -364.24 NWT at 109.44 msec

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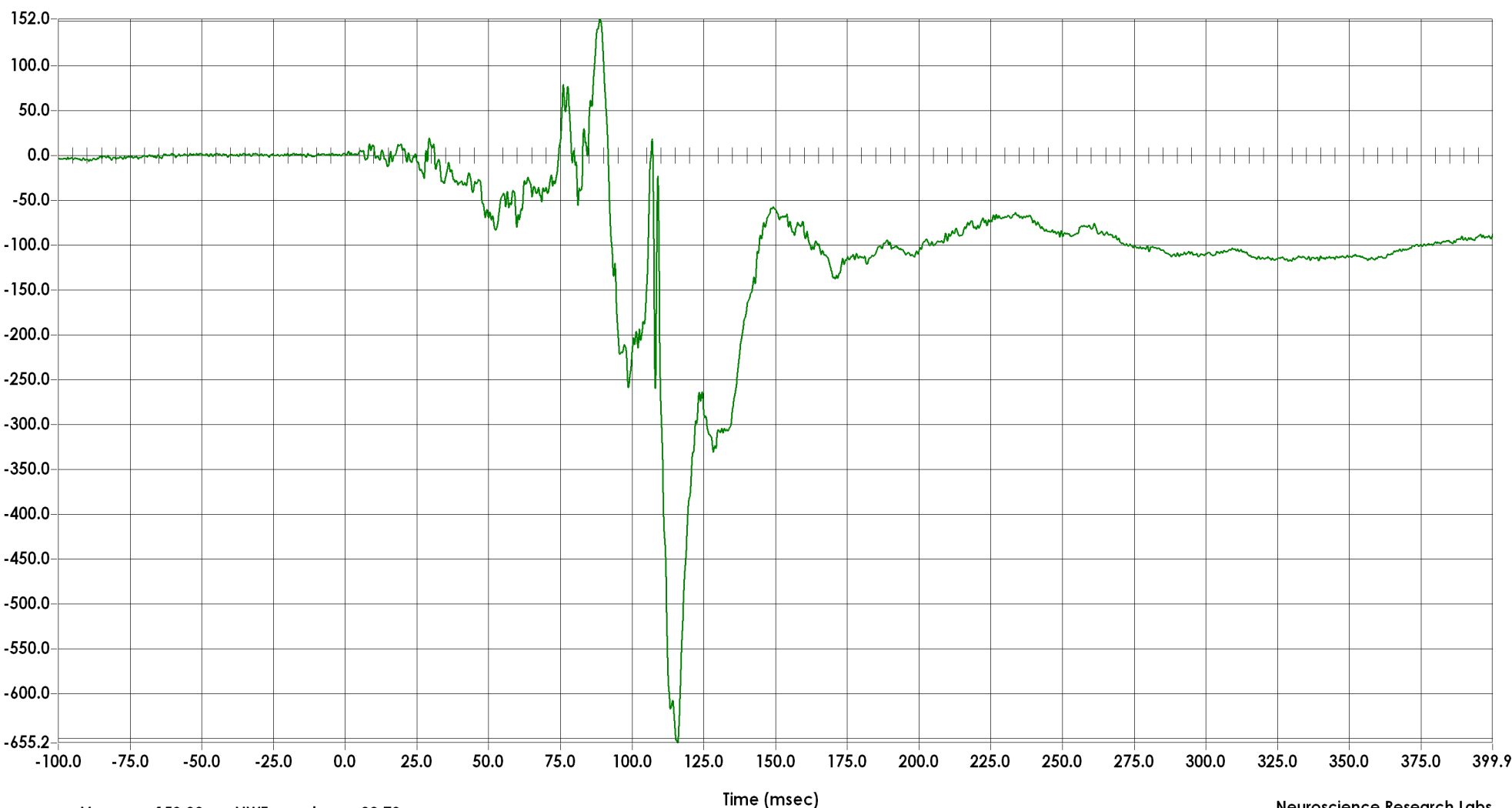
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver left femur force YL



Max 152.00 NWT at 88.72 msec
Min -655.18 NWT at 115.84 msec

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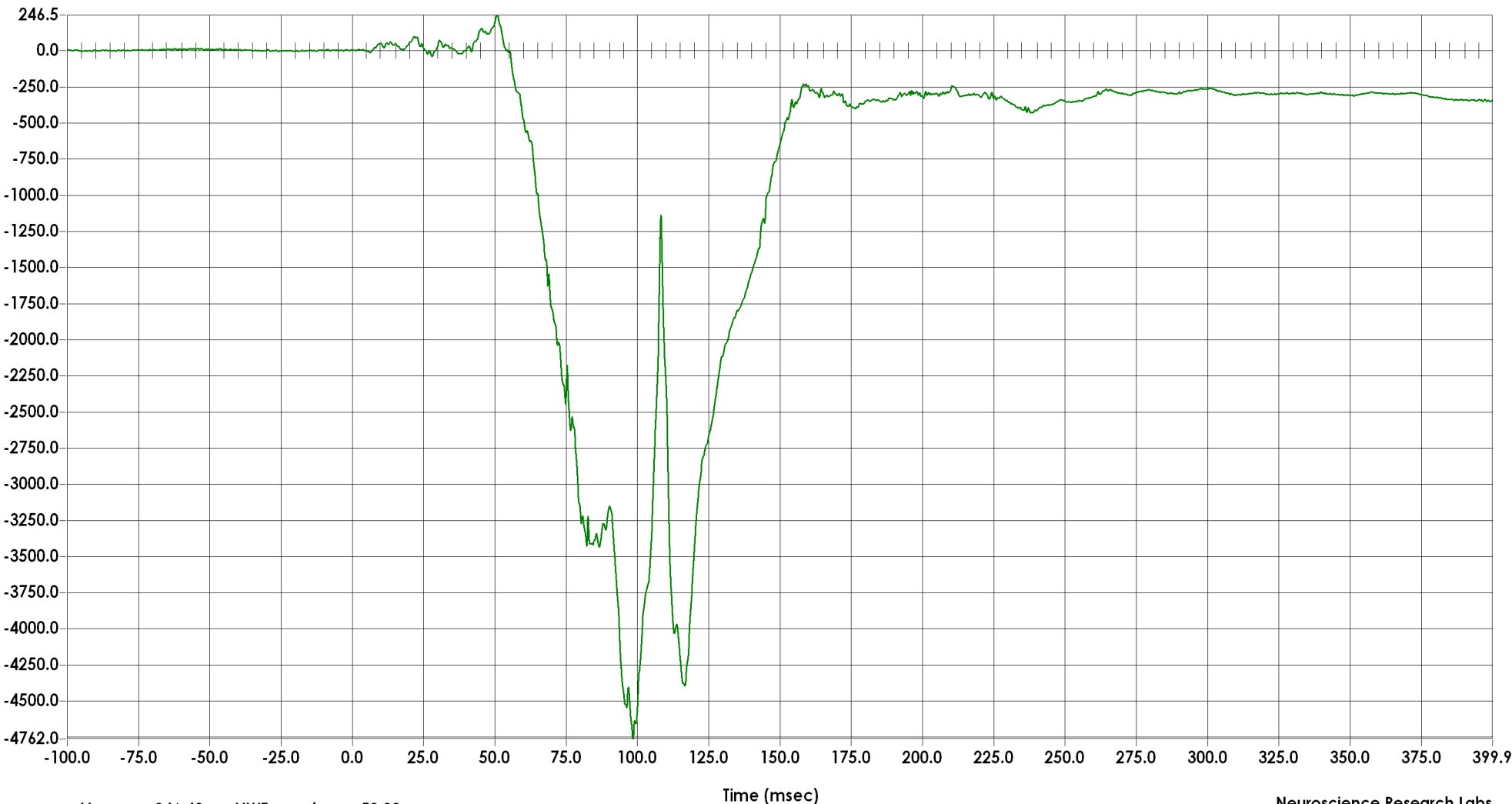
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver left femur force ZL



Max 246.48 NWT at 50.88 msec
Min -4762.05 NWT at 98.40 msec

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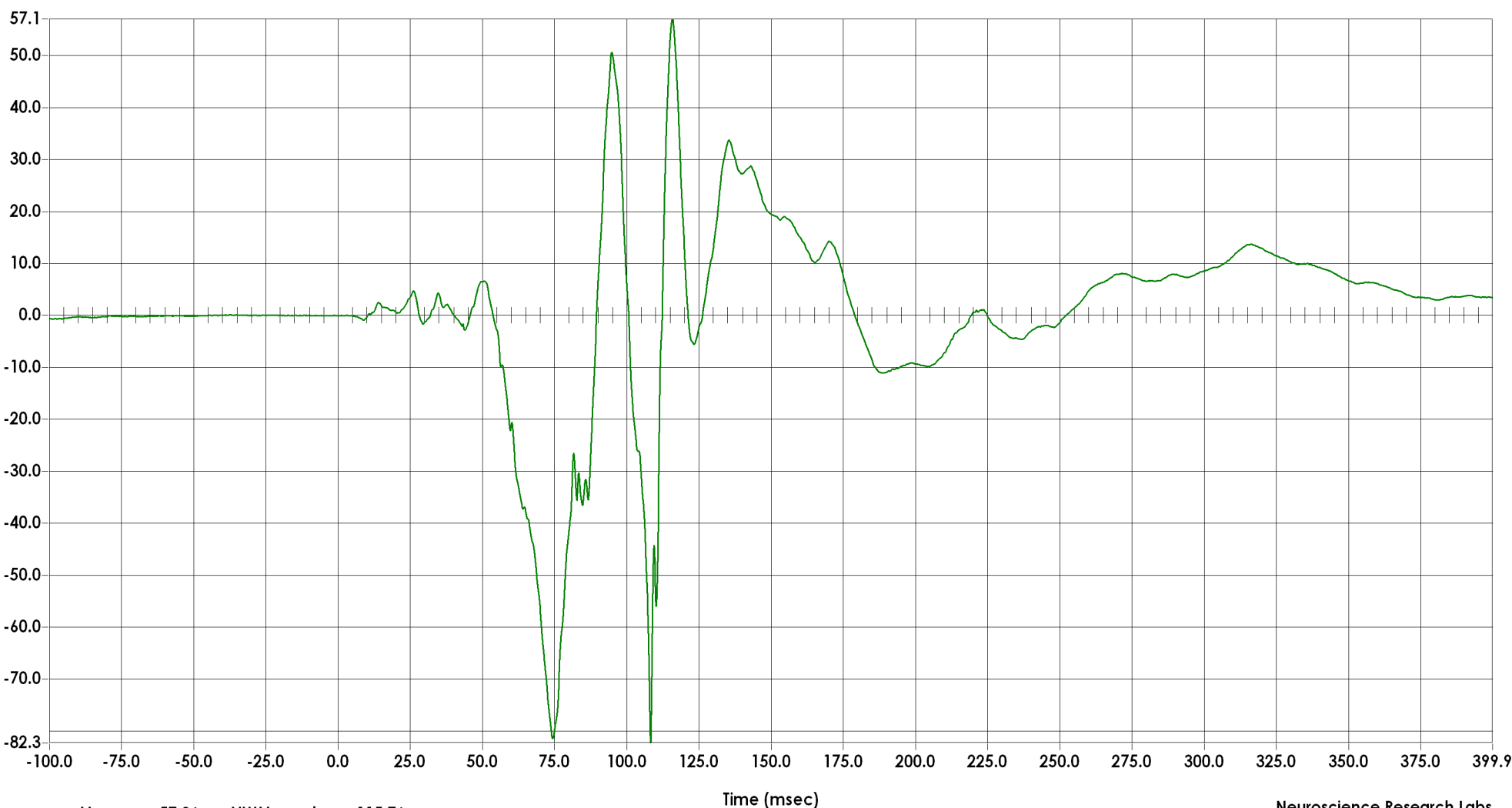
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver left femur moment XL



Max 57.06 NWM at 115.76 msec
Min -82.30 NWM at 108.24 msec

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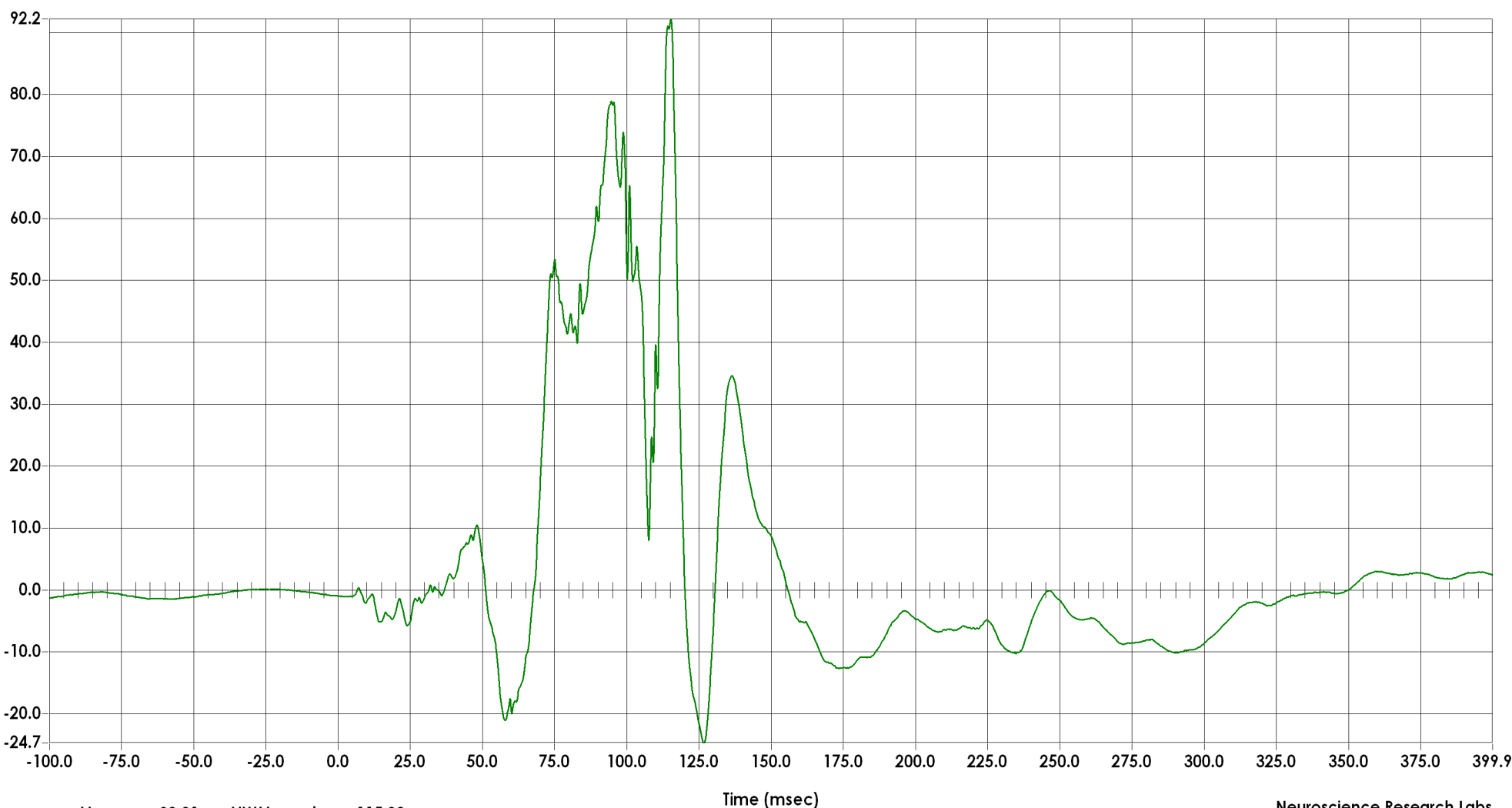
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver left femur moment YL



Max 92.21 NWM at 115.28 msec
Min -24.70 NWM at 126.72 msec

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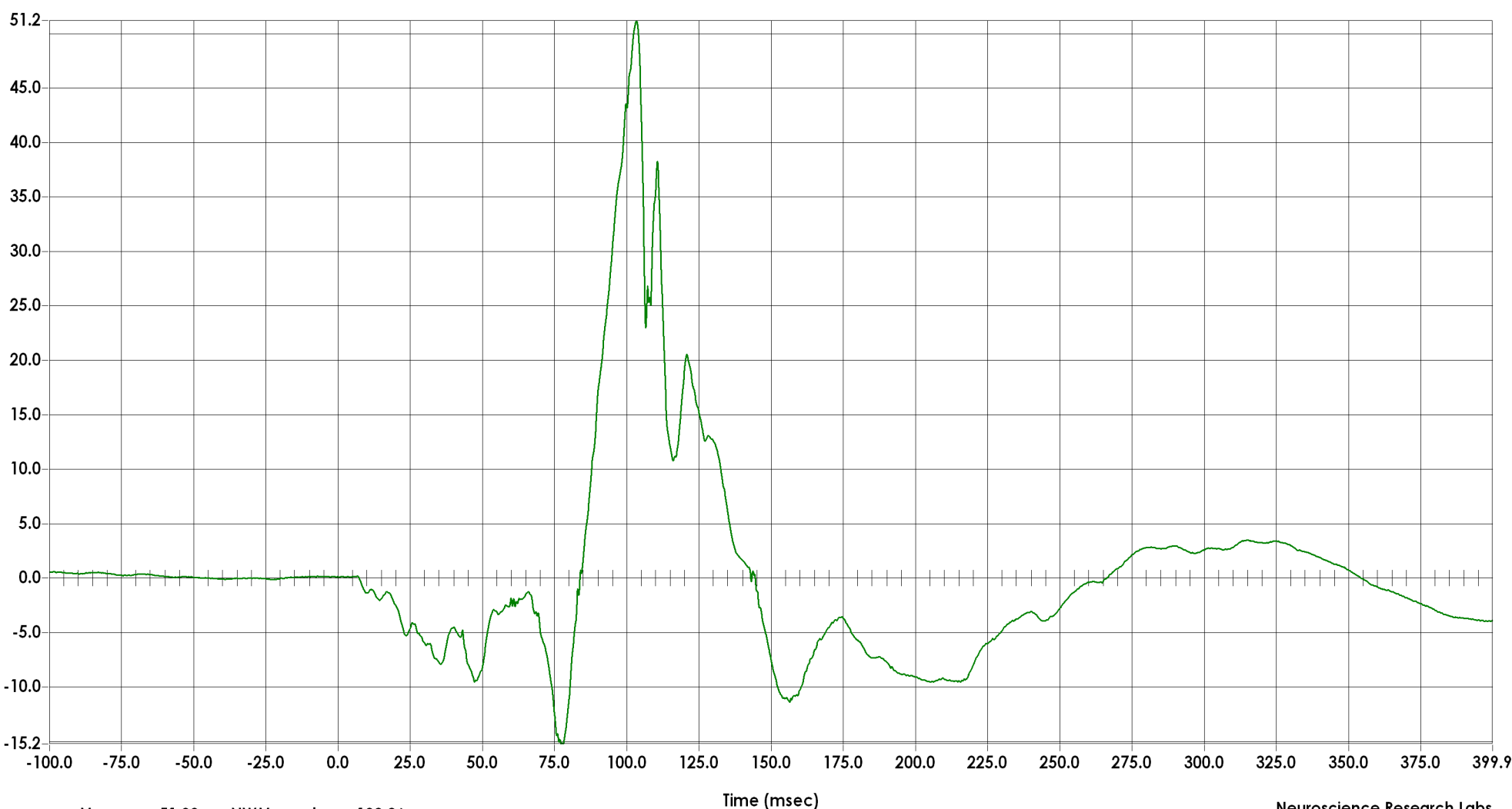
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver left femur moment ZL



Max 51.22 NWM at 103.36 msec
Min -15.24 NWM at 77.92 msec

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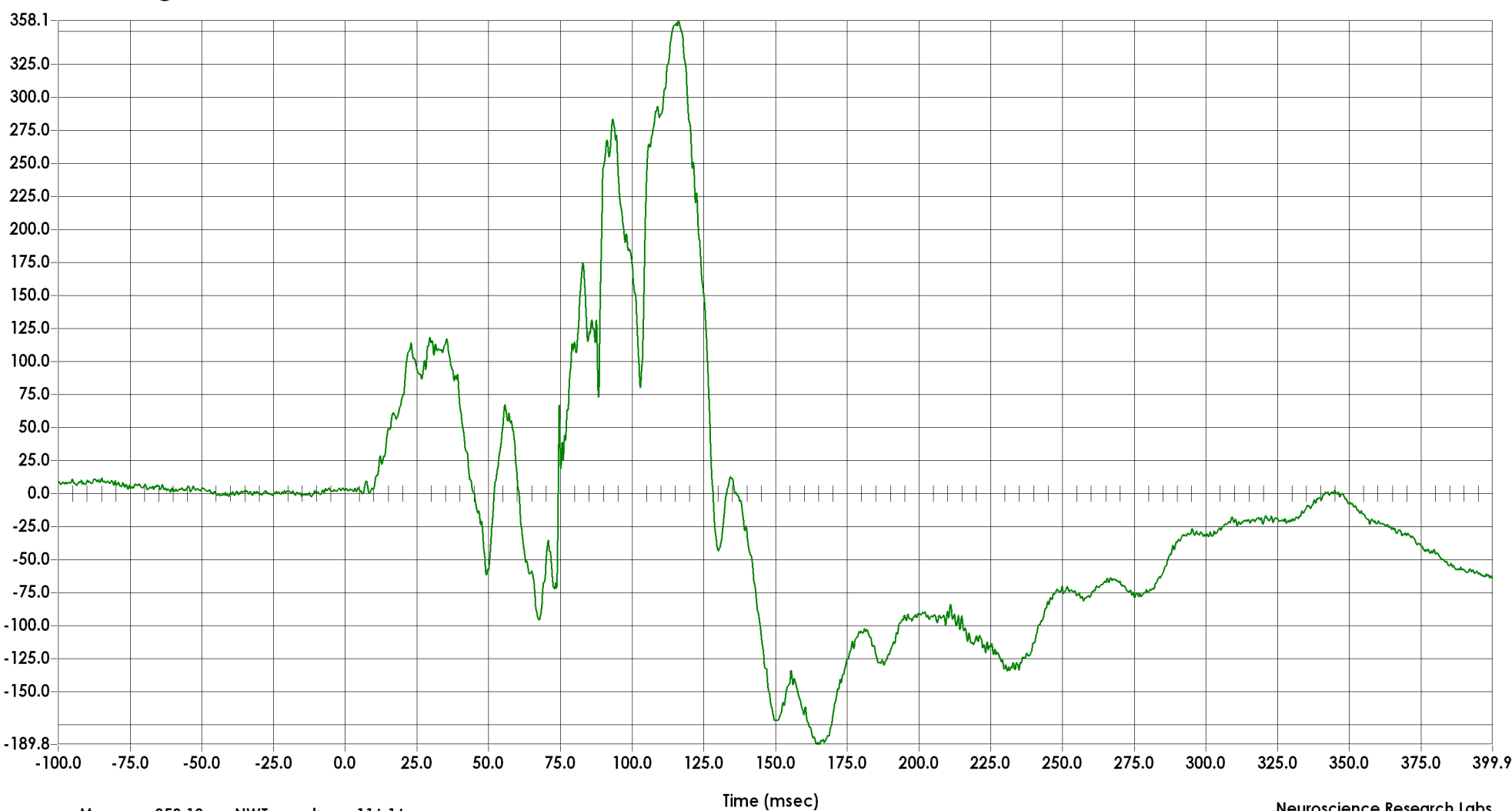
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right femur force XL



Max 358.10 NWT at 116.16 msec
Min -189.84 NWT at 165.20 msec

SOI001 Plot 116

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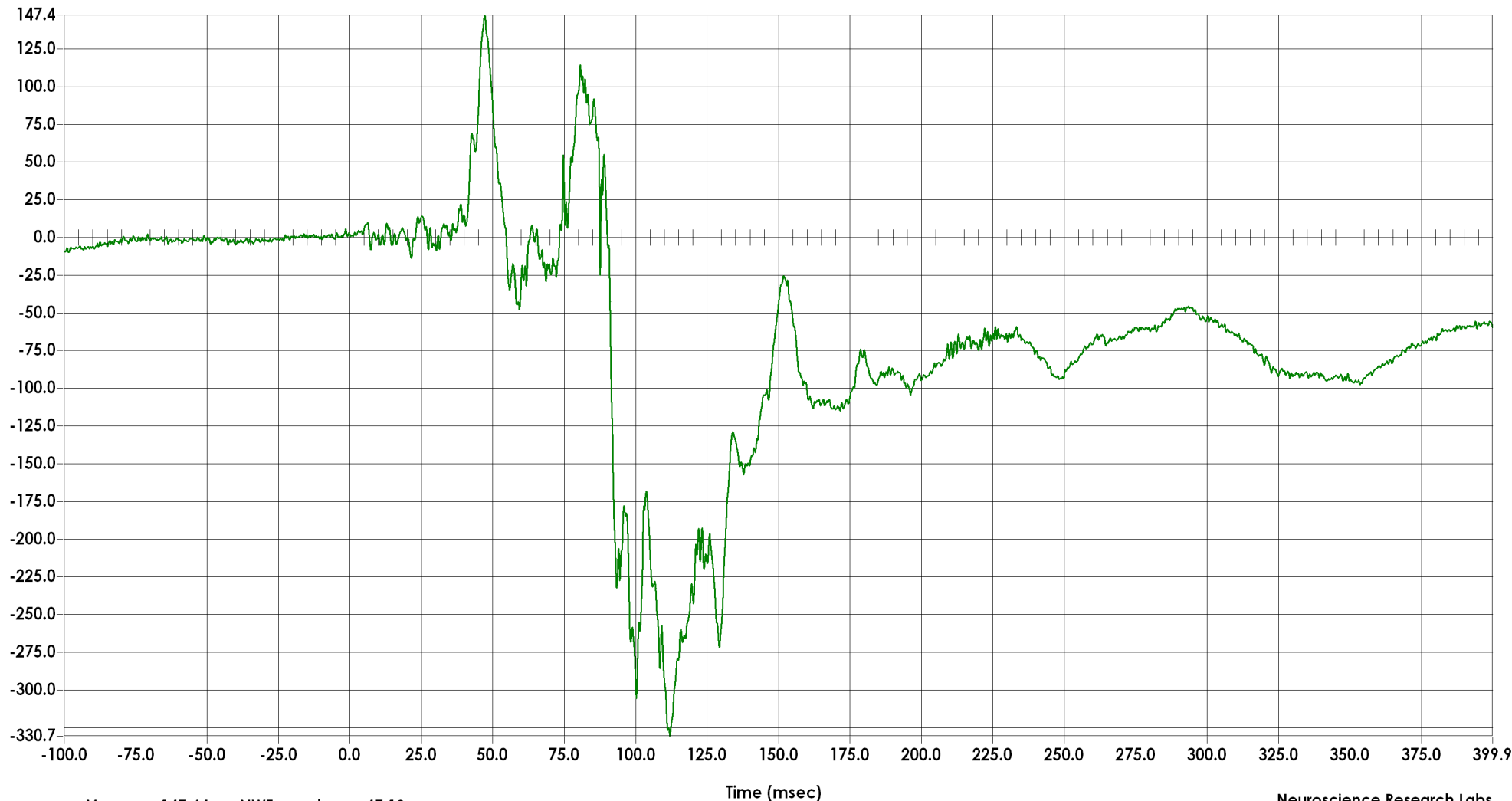
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right femur force YL



Max 147.44 NWT at 47.12 msec
Min -330.66 NWT at 112.00 msec

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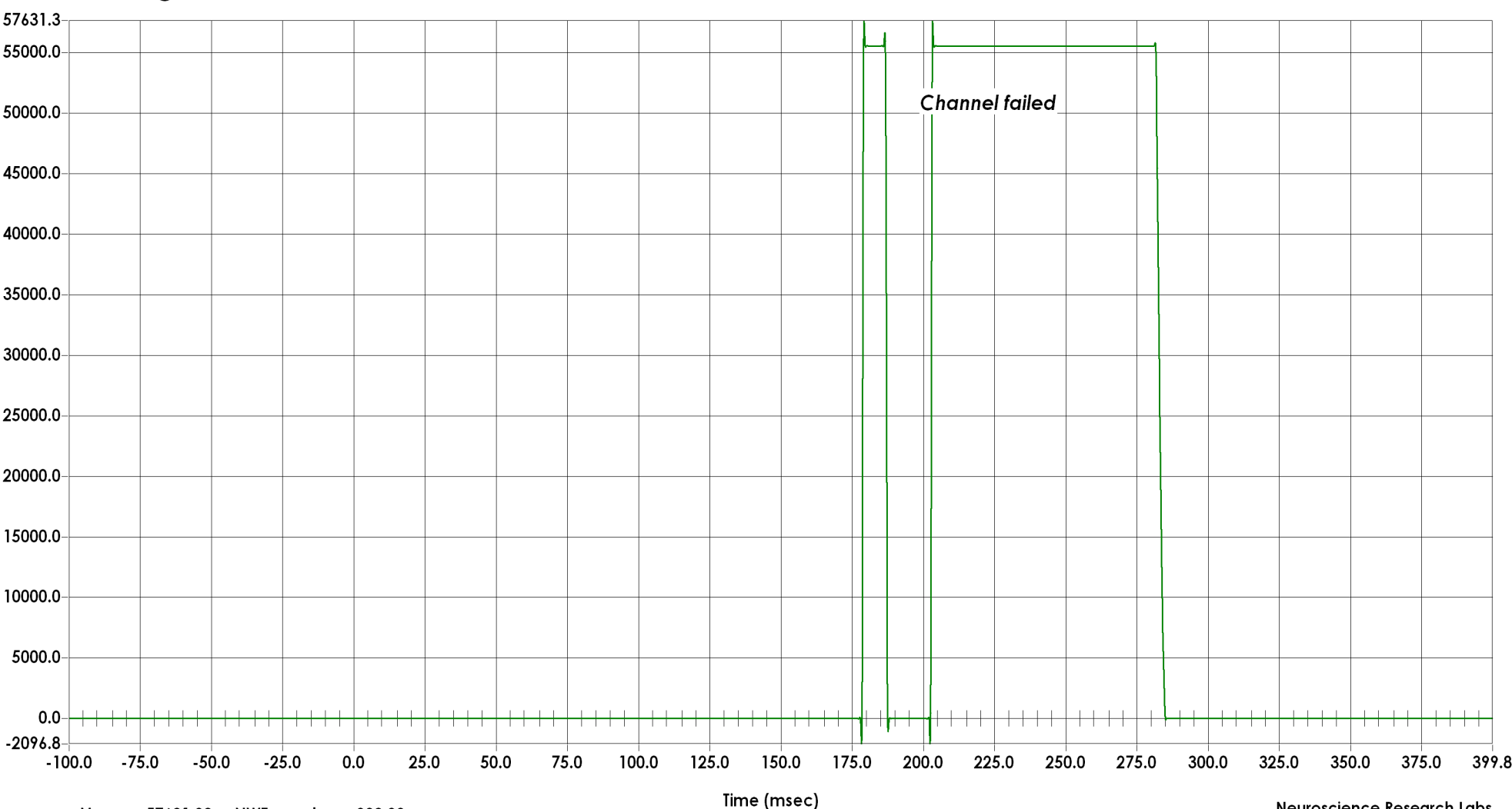
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver right femur force ZL



Max 57631.28 NWT at 203.20 msec
Min -2096.80 NWT at 178.24 msec

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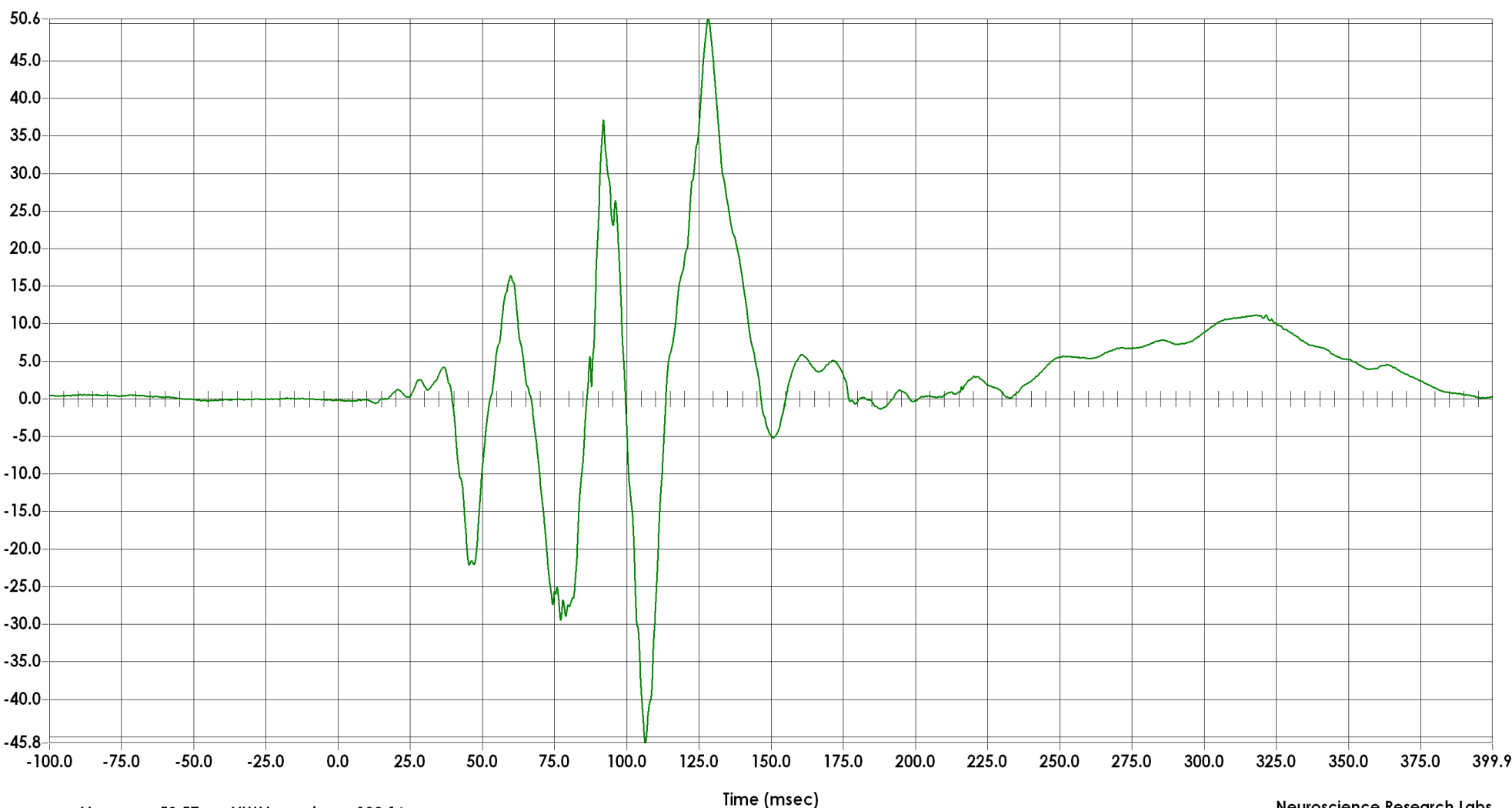
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver right femur moment XL



Max 50.57 NWM at 128.16 msec
Min -45.80 NWM at 106.40 msec

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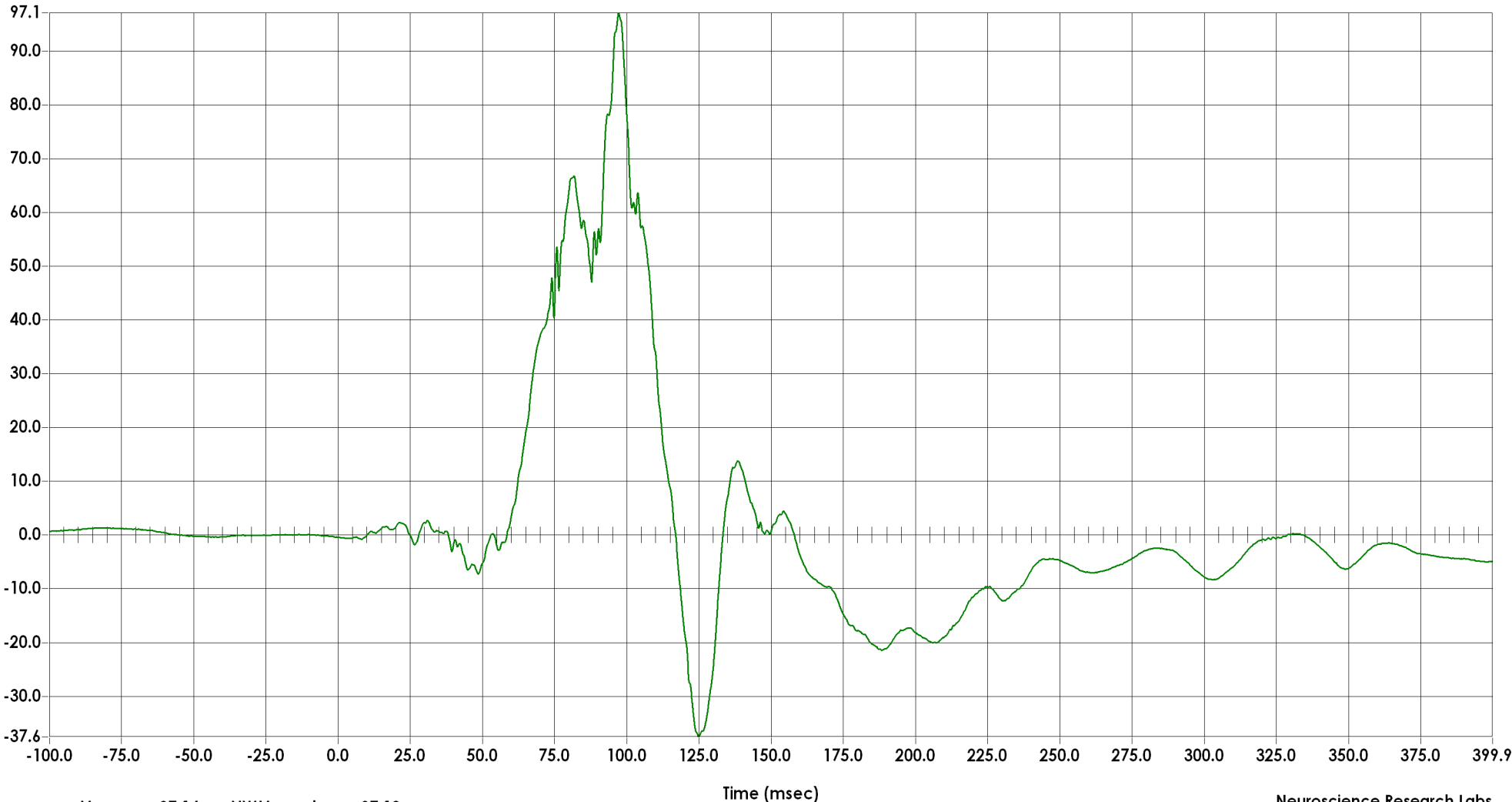
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Driver right femur moment YL



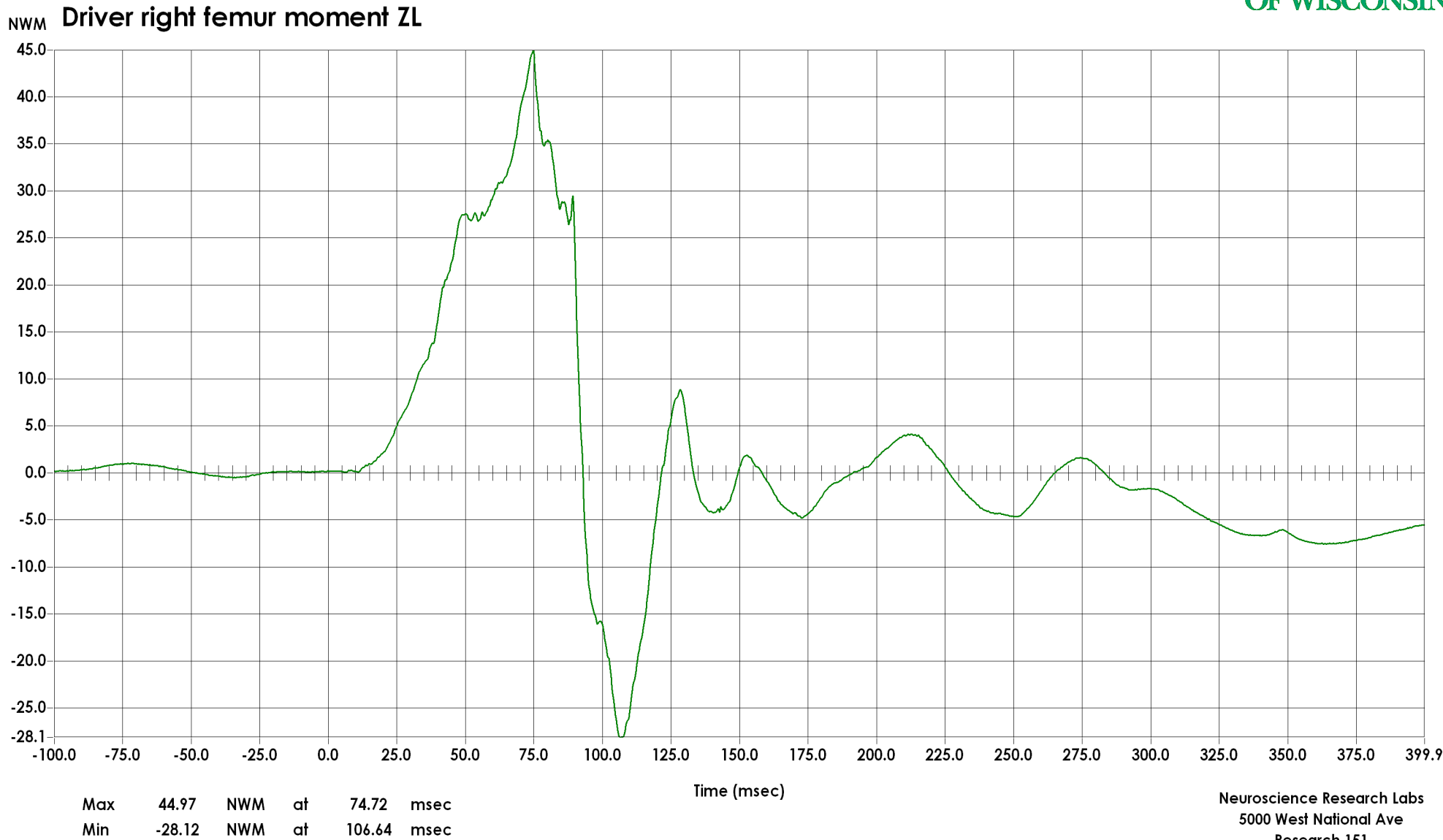
Max 97.14 NWM at 97.12 msec
Min -37.56 NWM at 124.96 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



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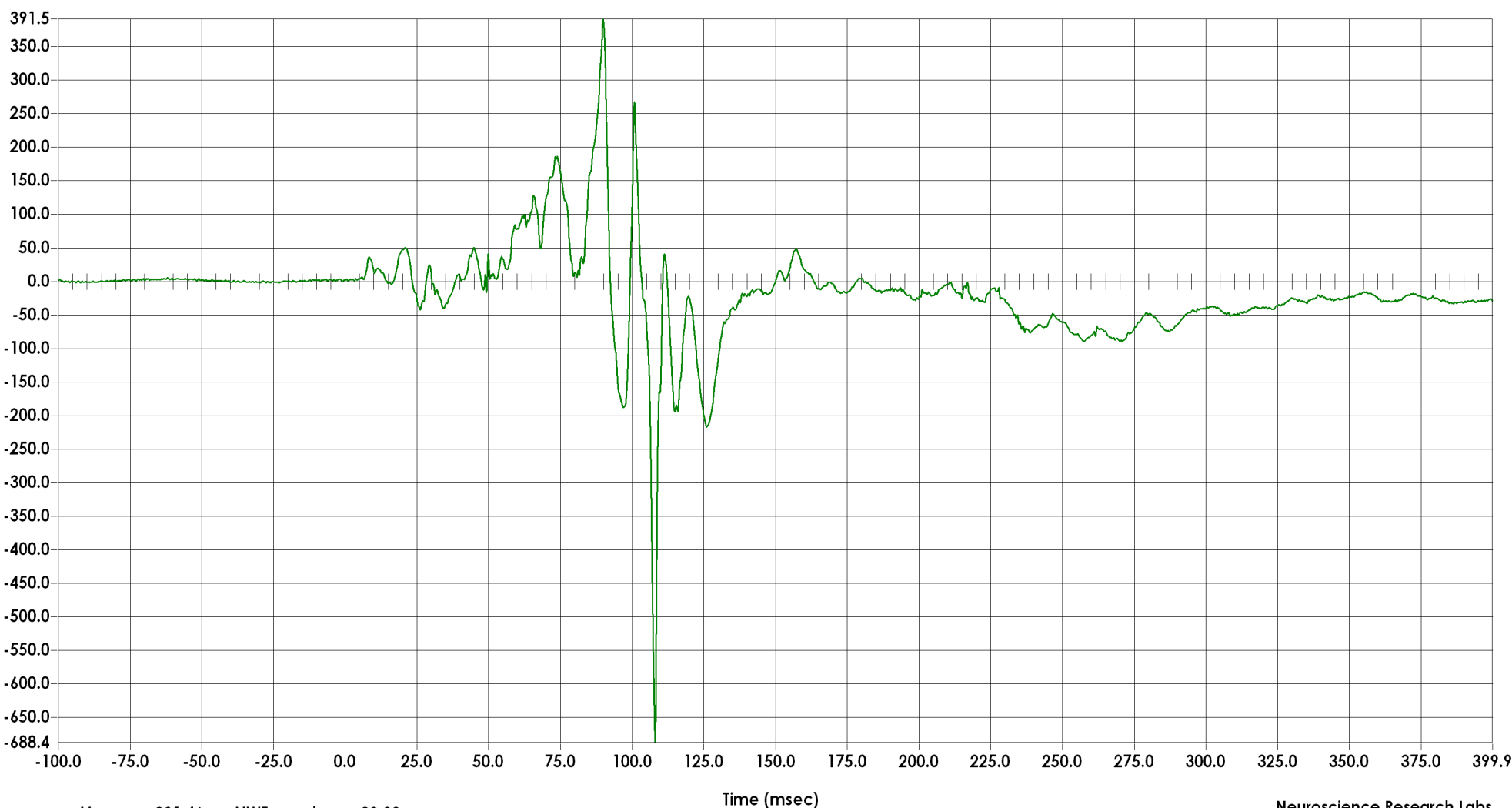
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver left upper tibia force XL



Max 391.46 NWT at 89.92 msec
Min -688.42 NWT at 108.00 msec

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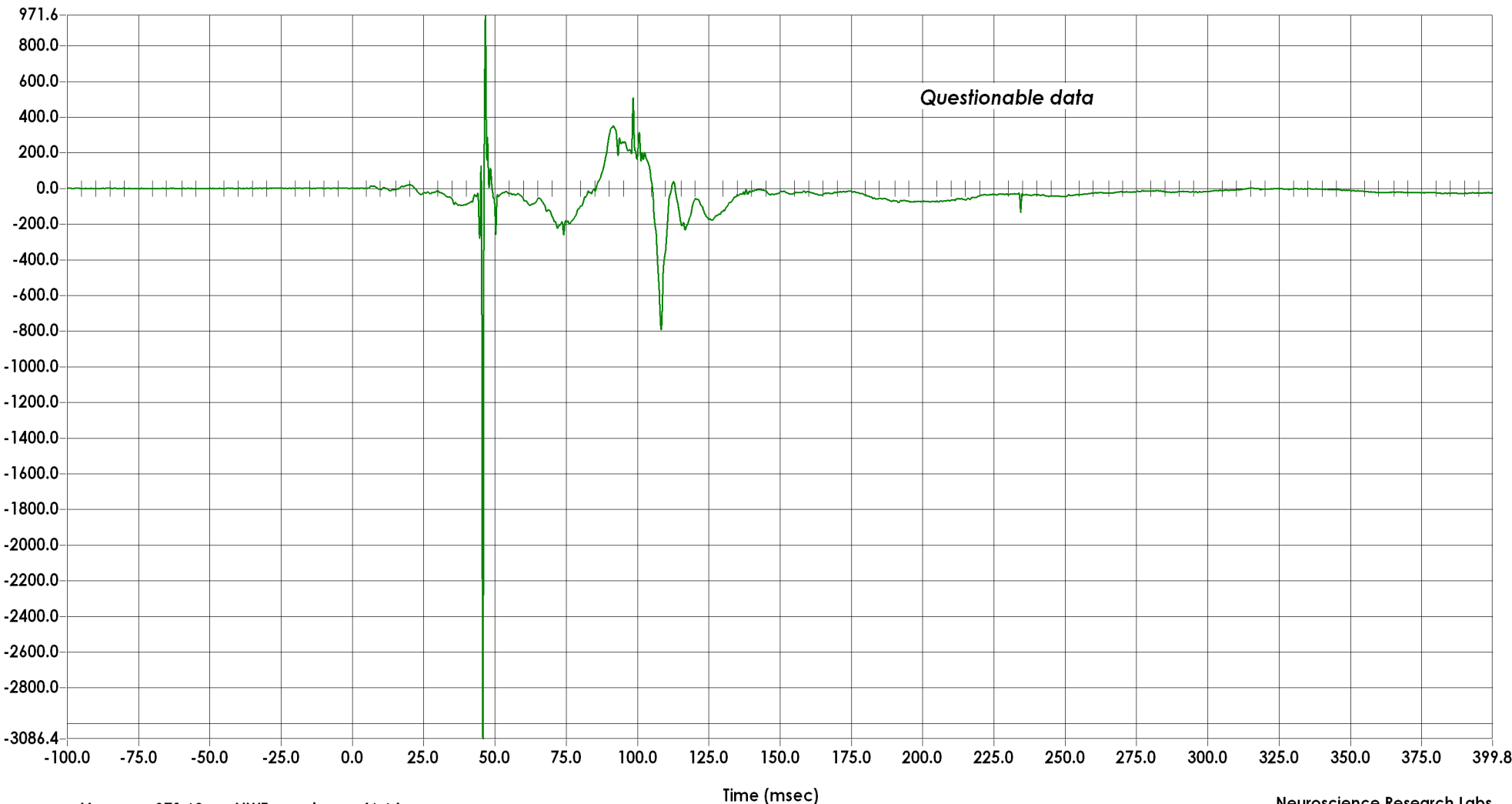
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Driver left upper tibia force YL



Max 971.62 NWT at 46.64 msec
Min -3086.45 NWT at 45.76 msec

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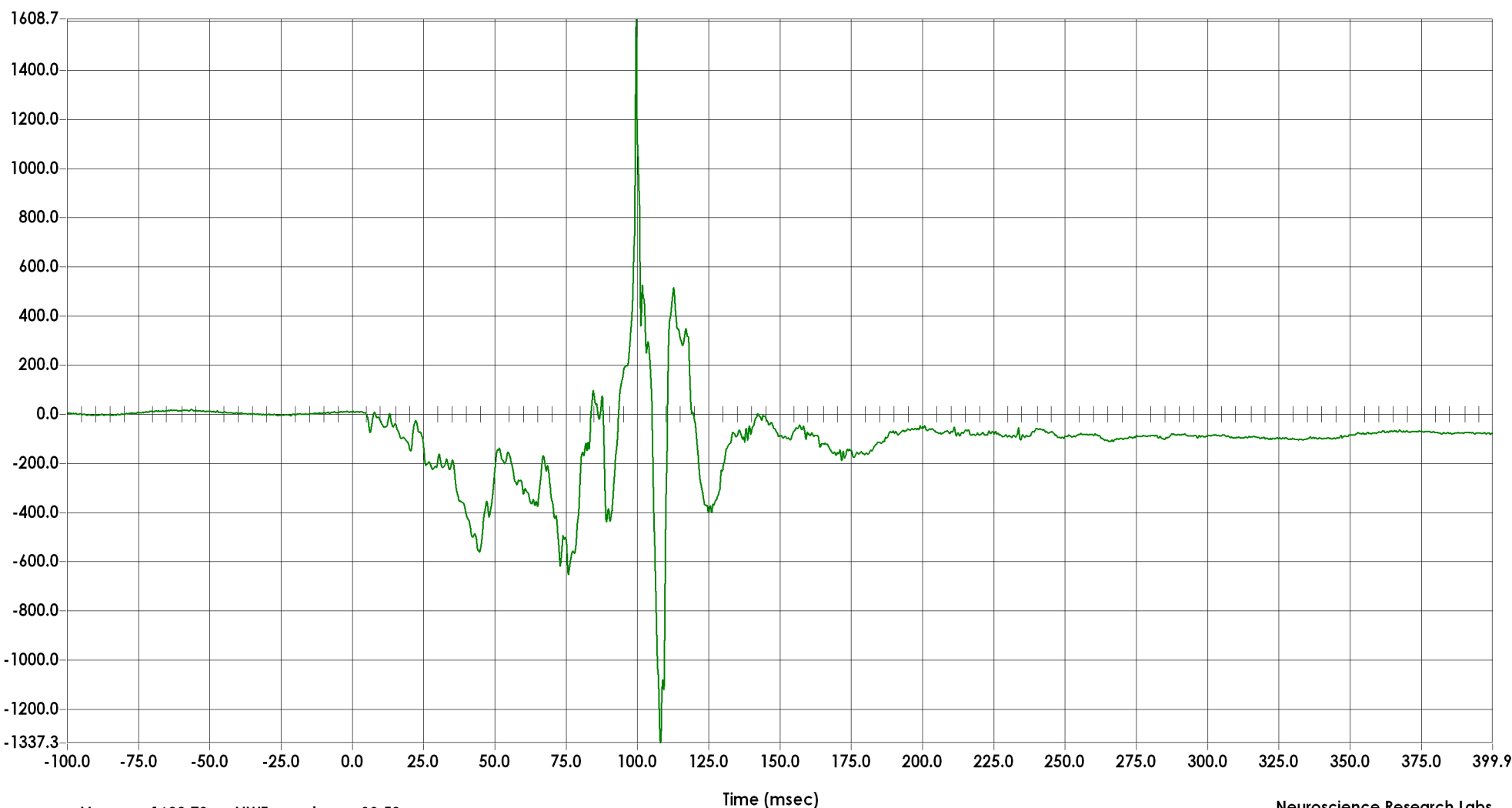
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location TBLU
Sensor Info Denton 4509J
Serial Number 4509J_104_FZ



NWT Driver left upper tibia force ZL



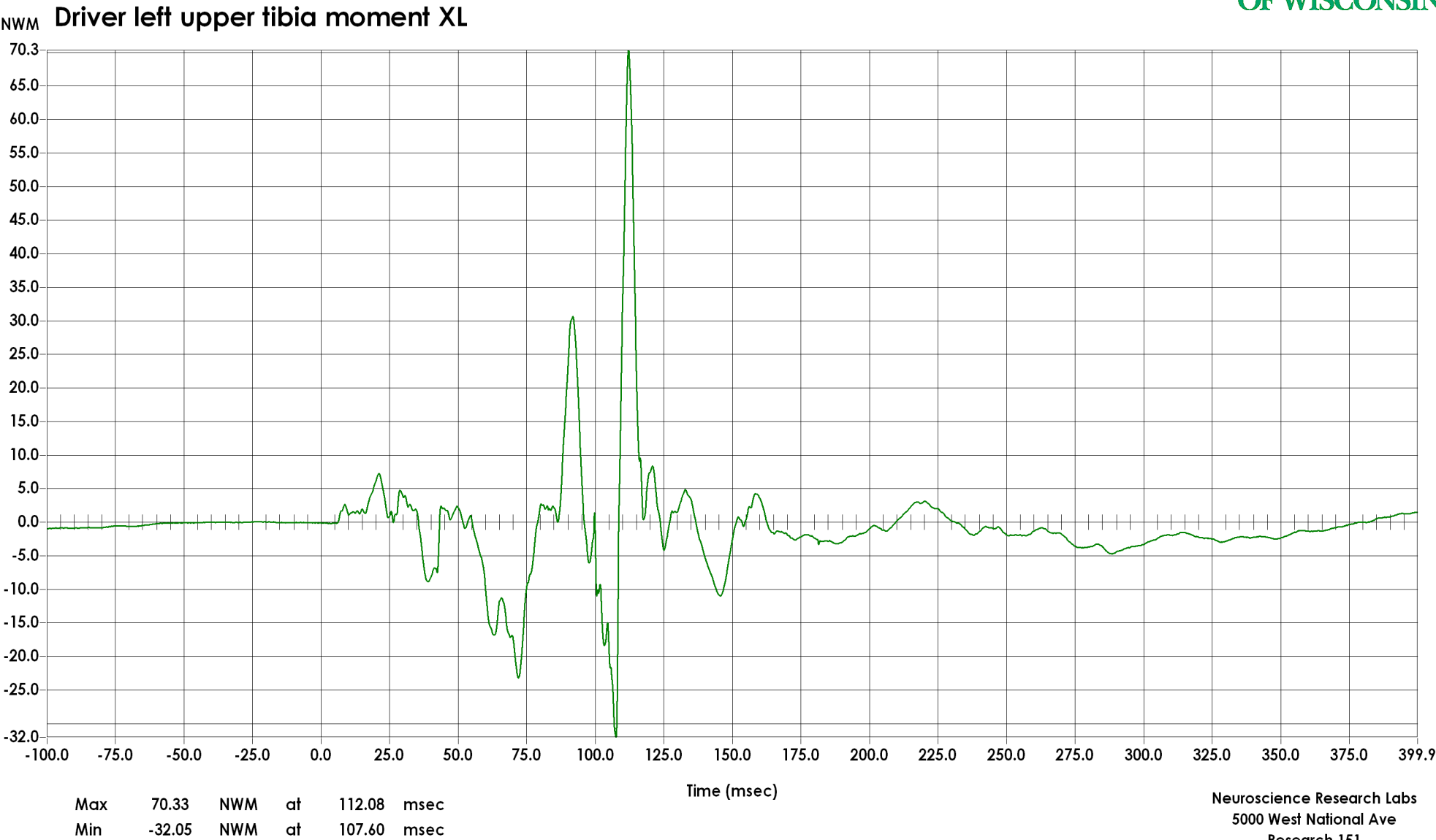
Max 1608.72 NWT at 99.52 msec
Min -1337.31 NWT at 108.08 msec

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Milwaukee, WI 53295

Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location TBLU
Sensor Info Denton 4509J
Serial Number 4509J_104_MX

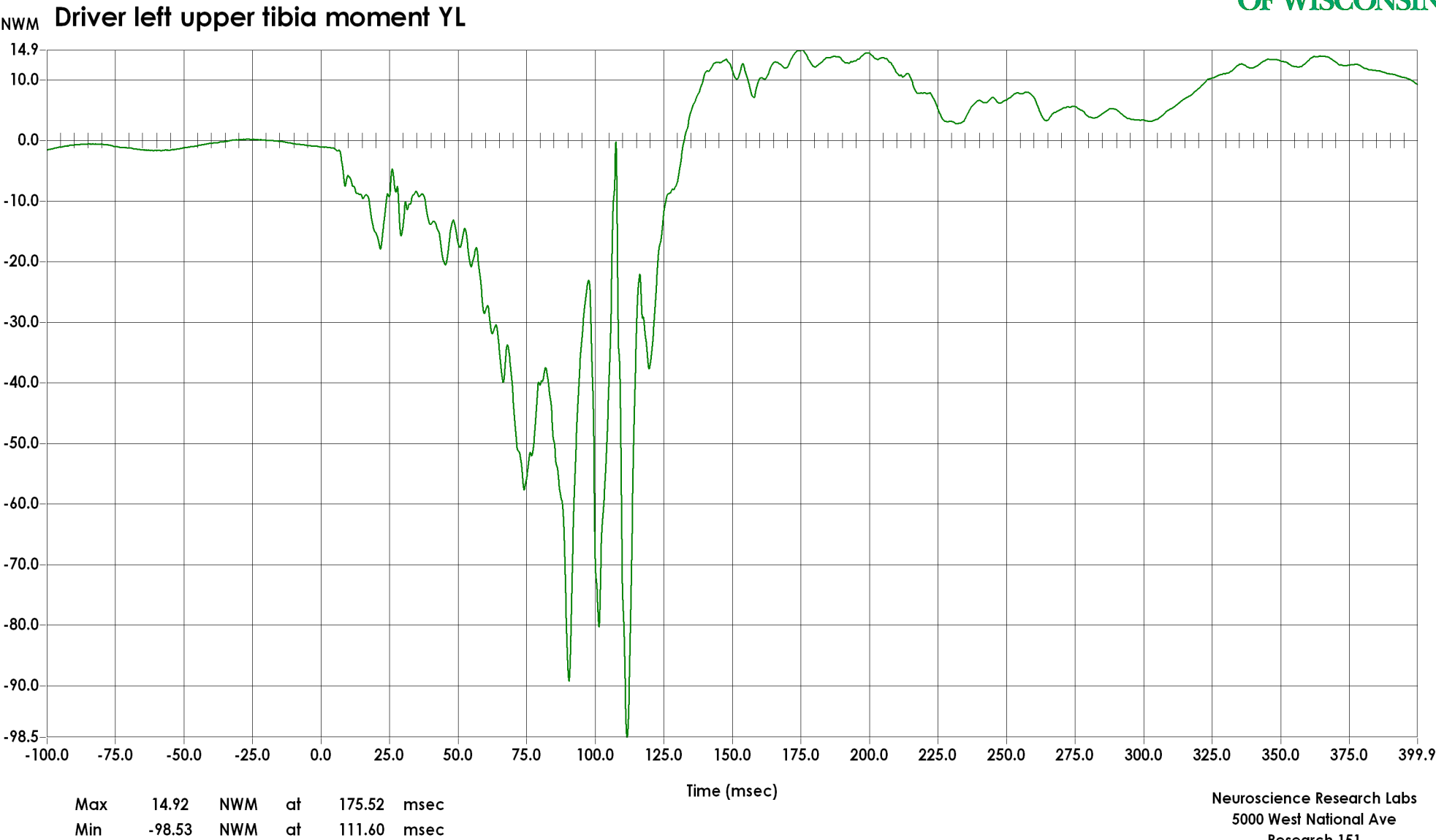


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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location TBLU
Sensor Info Denton 4509J
Serial Number 4509J_104_MY



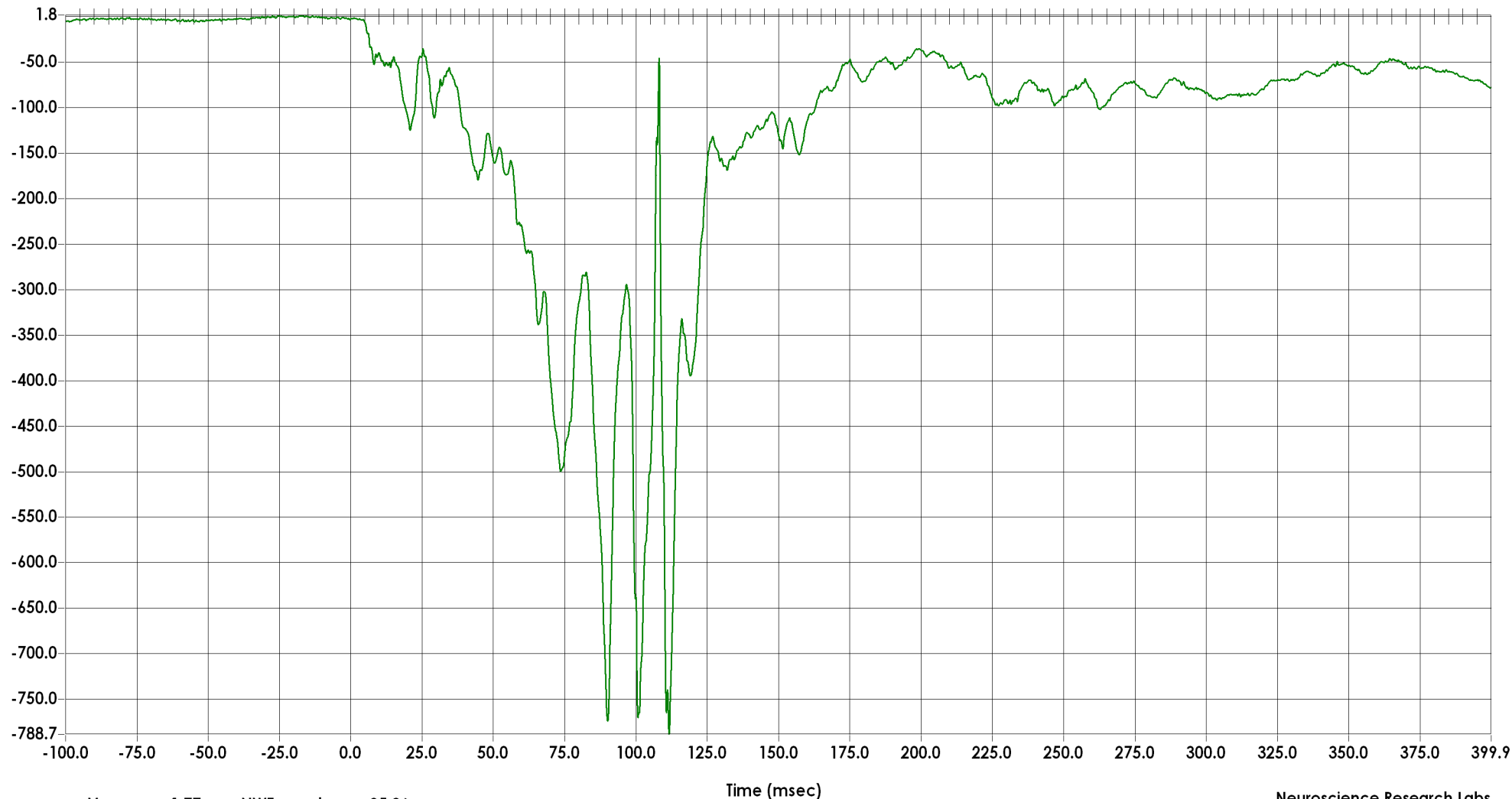
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location TBLL
Sensor Info Denton 4929J
Serial Number 4929J_140_FX



NWT Driver left lower tibia force XL



Max 1.77 NWT at -25.36 msec
Min -788.67 NWT at 111.60 msec

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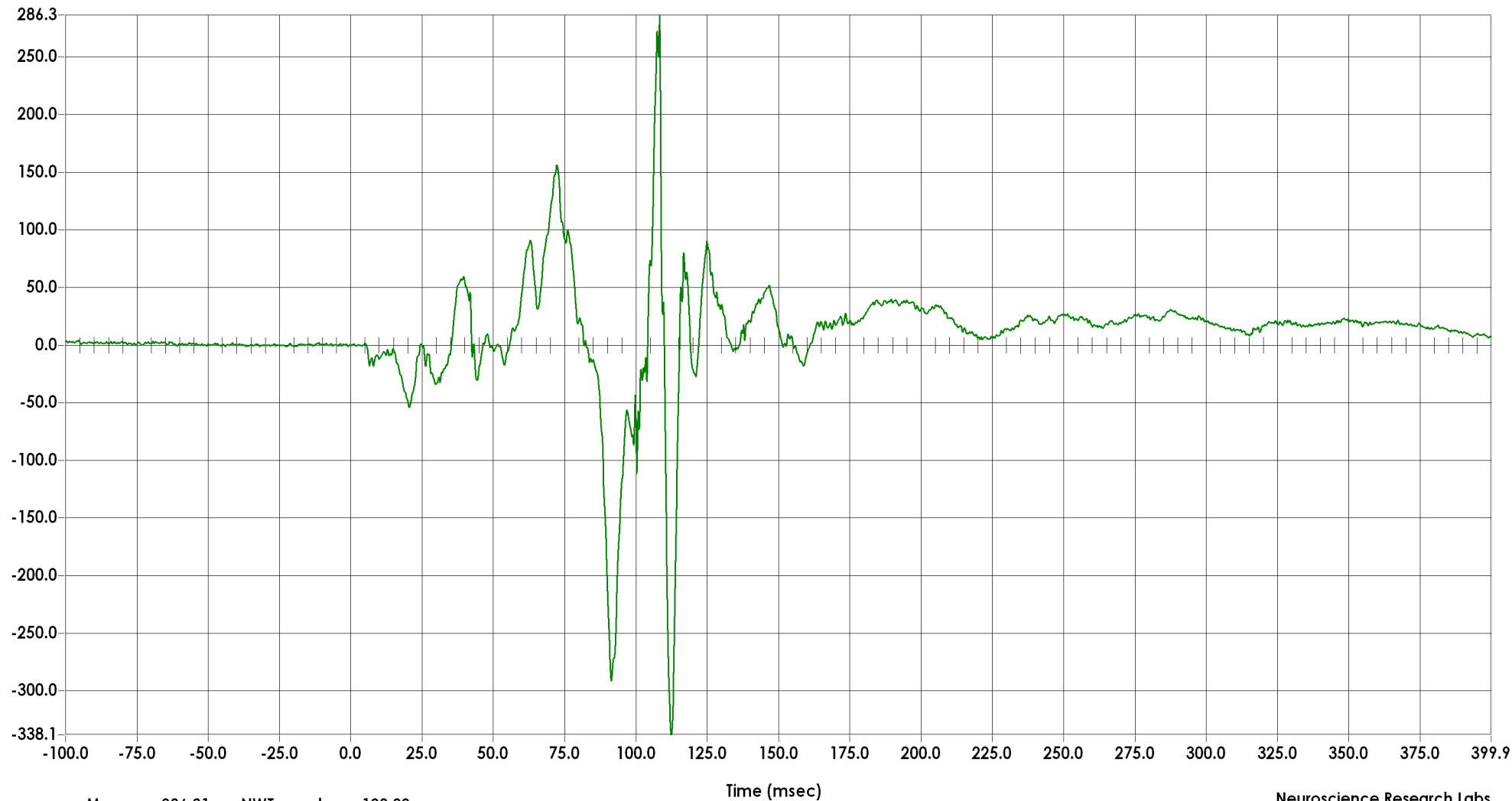
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location TBLL
Sensor Info Denton 4929J
Serial Number 4929J_140_FY



NWT Driver left lower tibia force YL



Max 286.31 NWT at 108.32 msec
Min -338.11 NWT at 112.40 msec

SOI001 Plot 128

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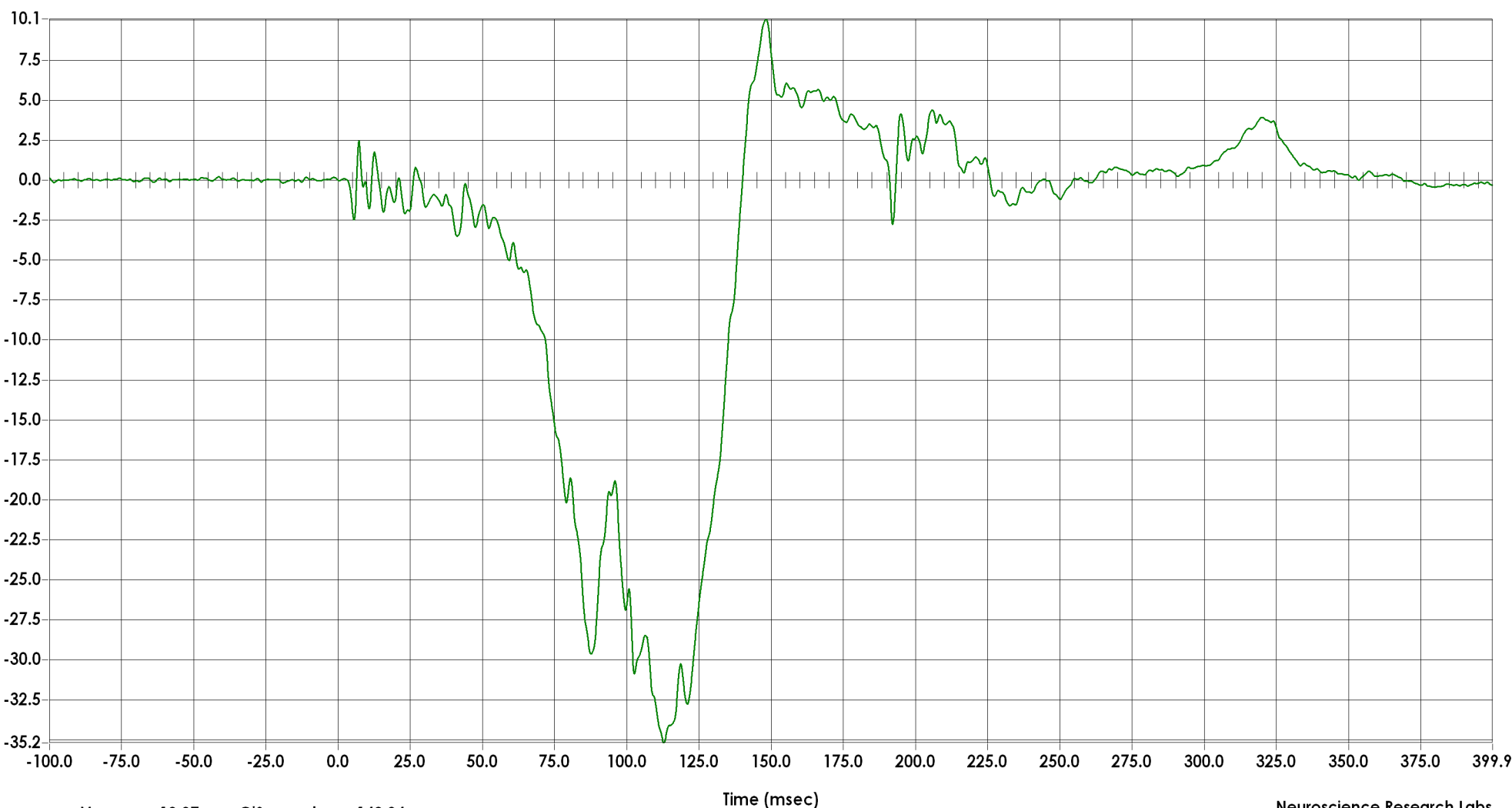
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger t4 acceleration XL



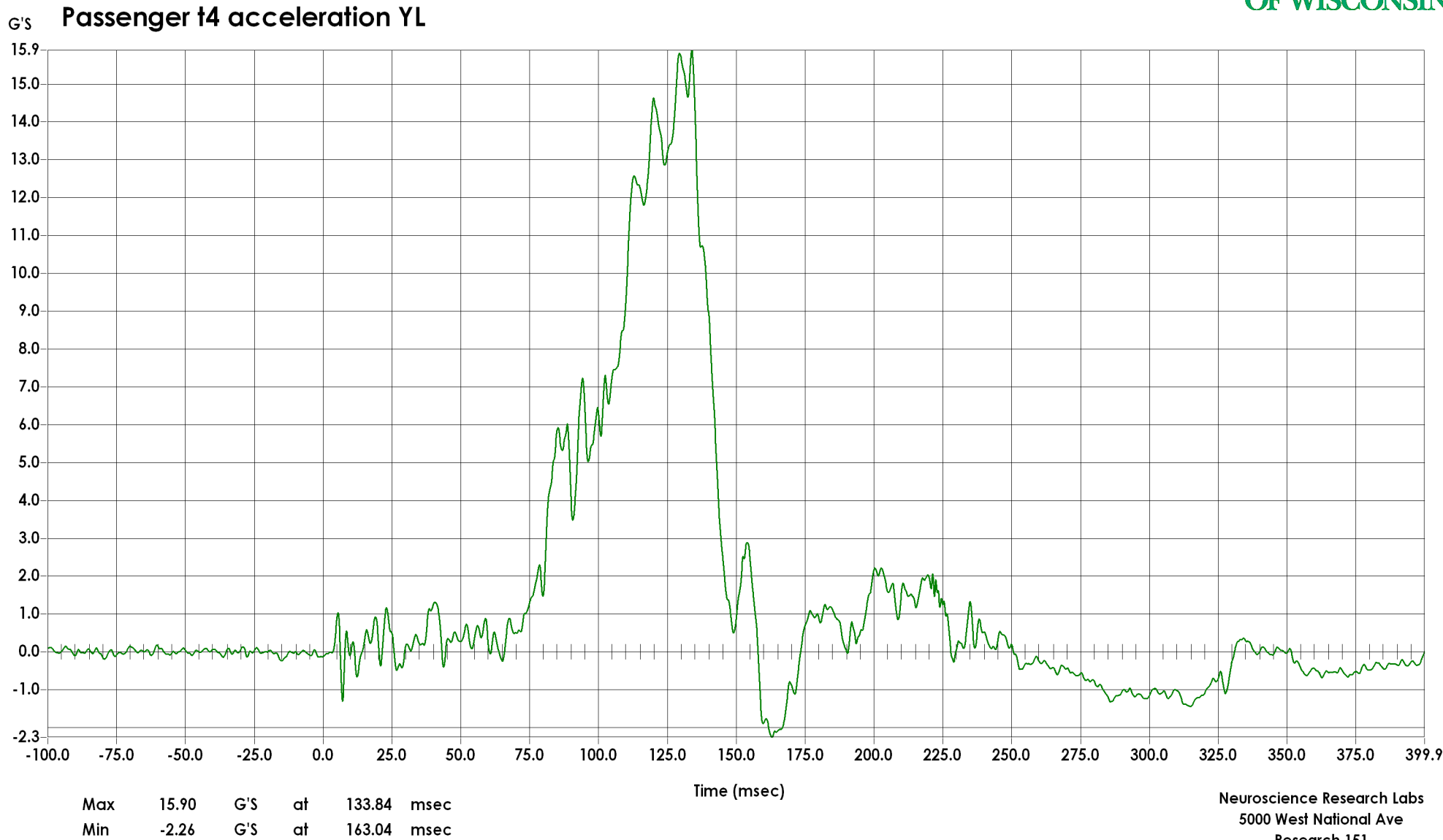
Max 10.07 G's at 148.24 msec
Min -35.19 G's at 112.80 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 130

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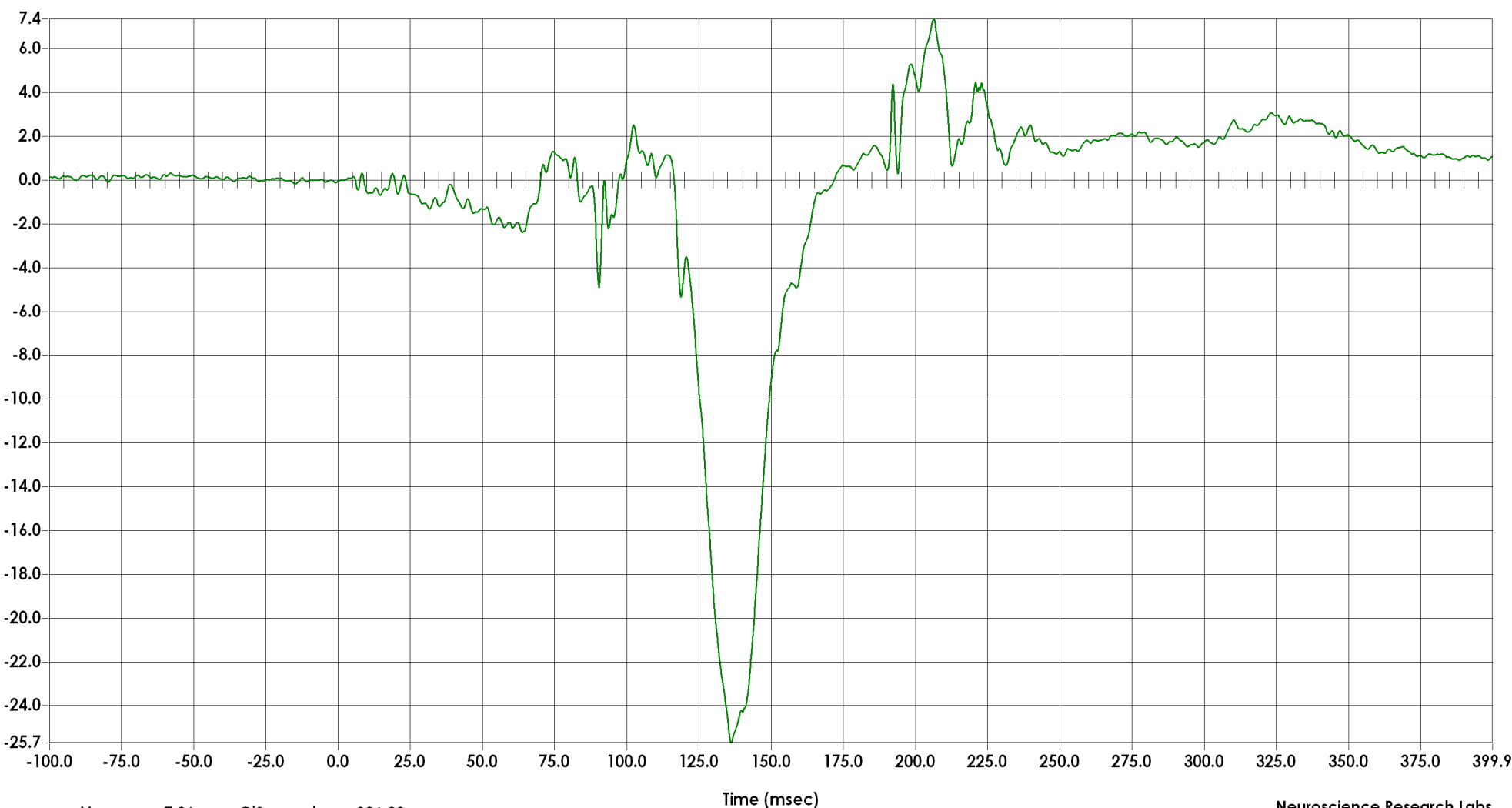
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger t4 acceleration ZL



Max 7.36 G'S at 206.32 msec
Min -25.70 G'S at 136.16 msec

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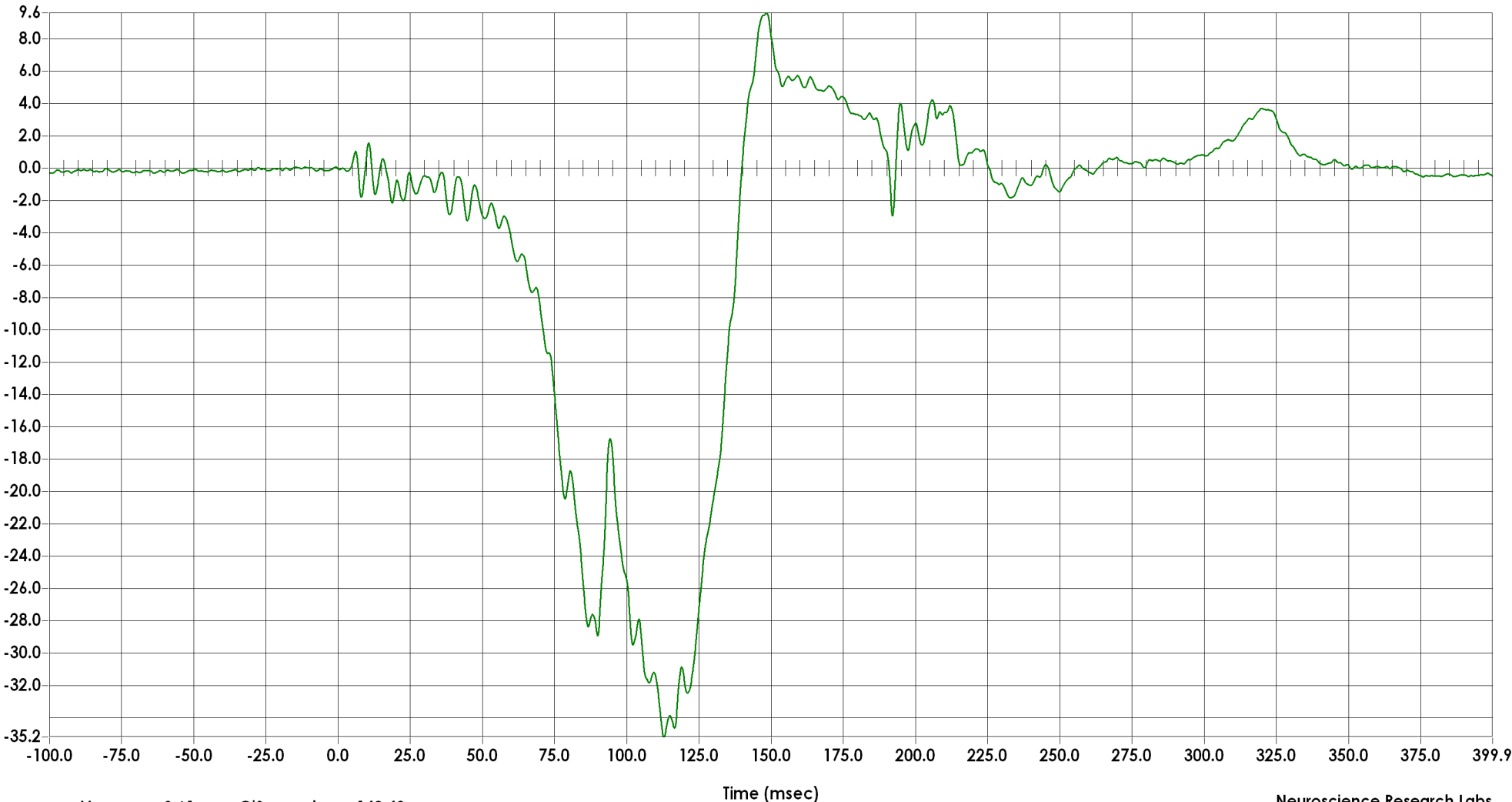
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger redundant t4 acceleration XL



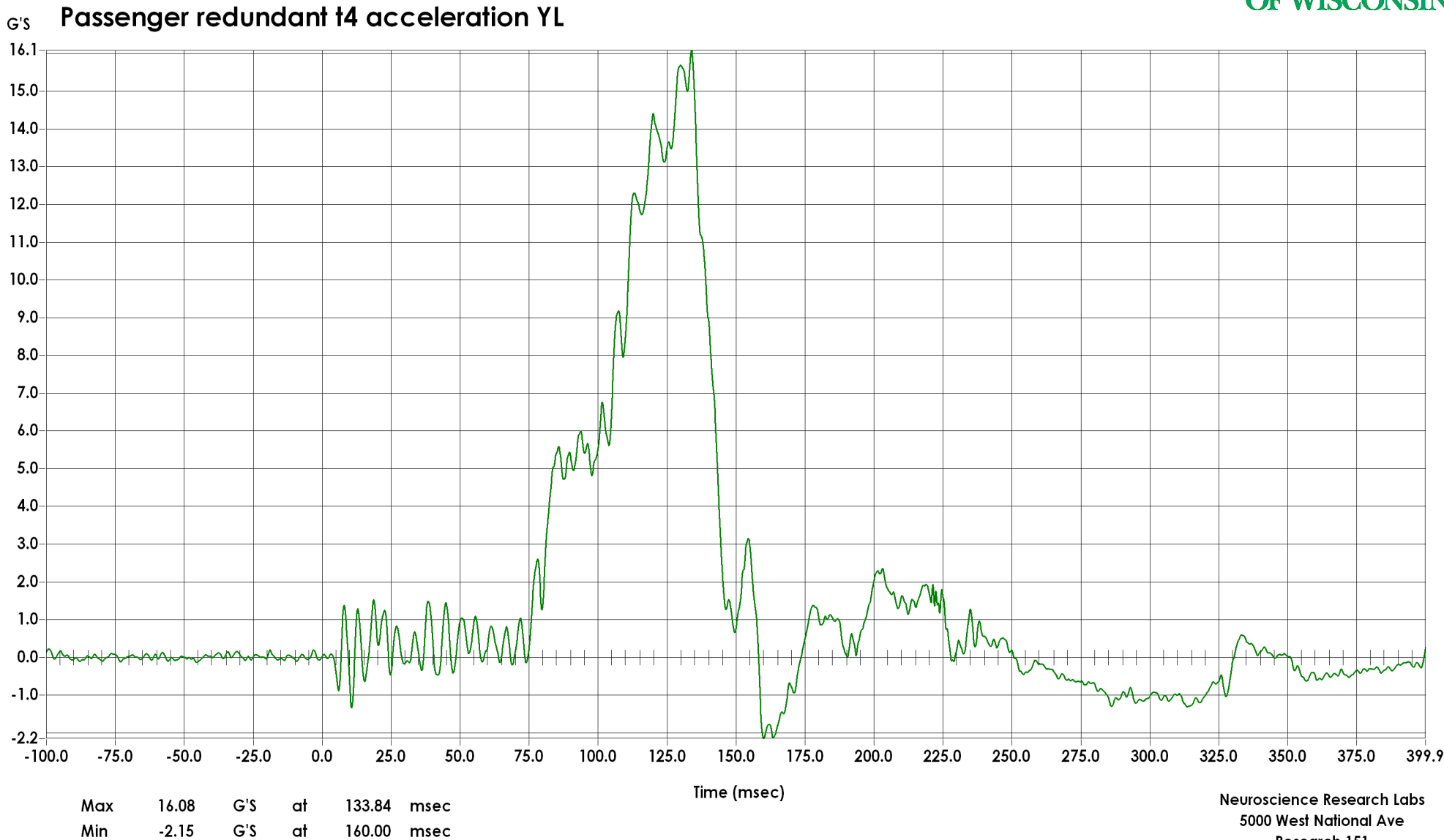
Max 9.61 G'S at 148.40 msec
Min -35.18 G'S at 112.88 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



SOI001 Plot 133

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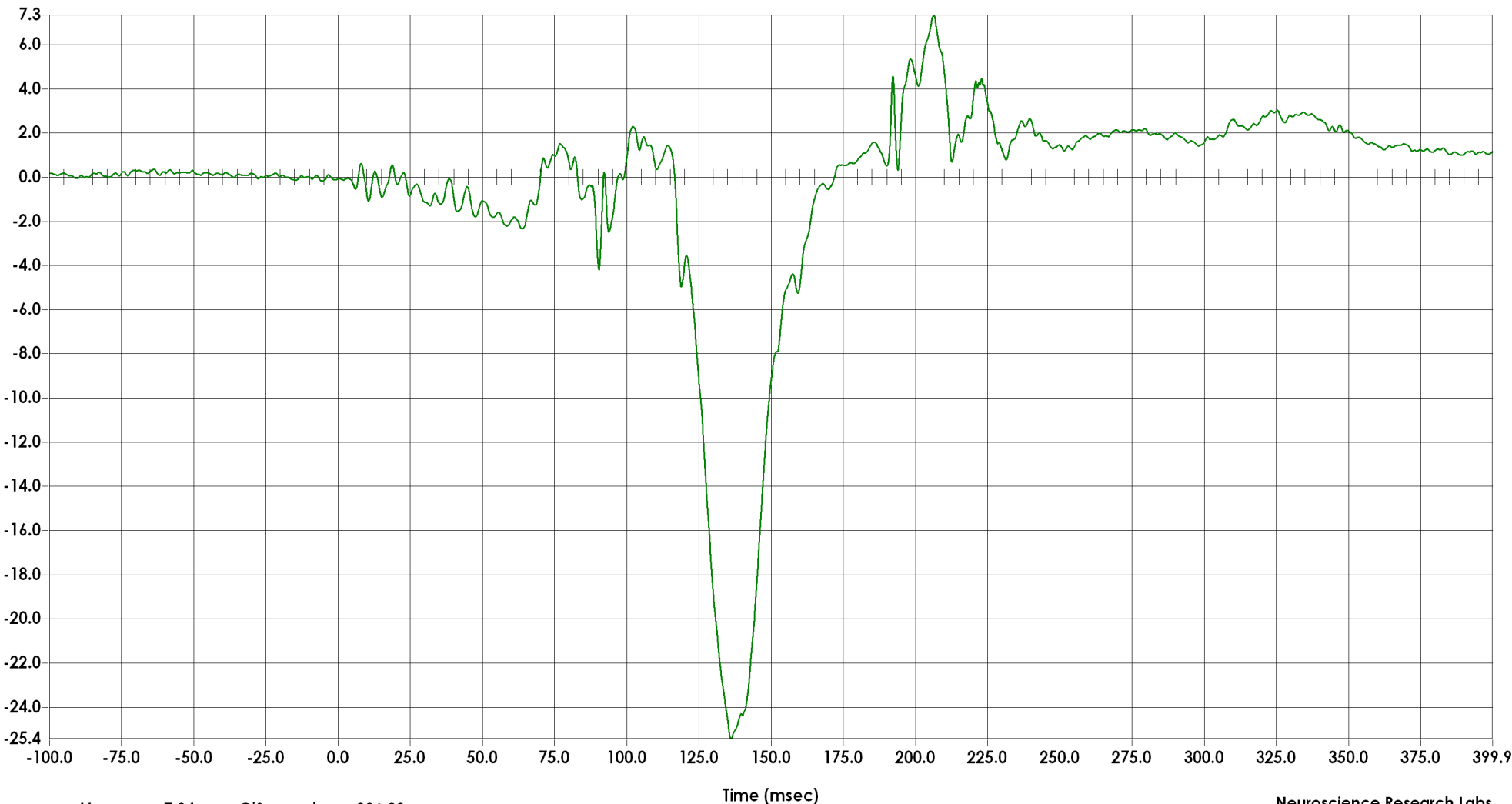
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger redundant t4 acceleration ZL



Max 7.34 G'S at 206.32 msec
Min -25.43 G'S at 136.08 msec

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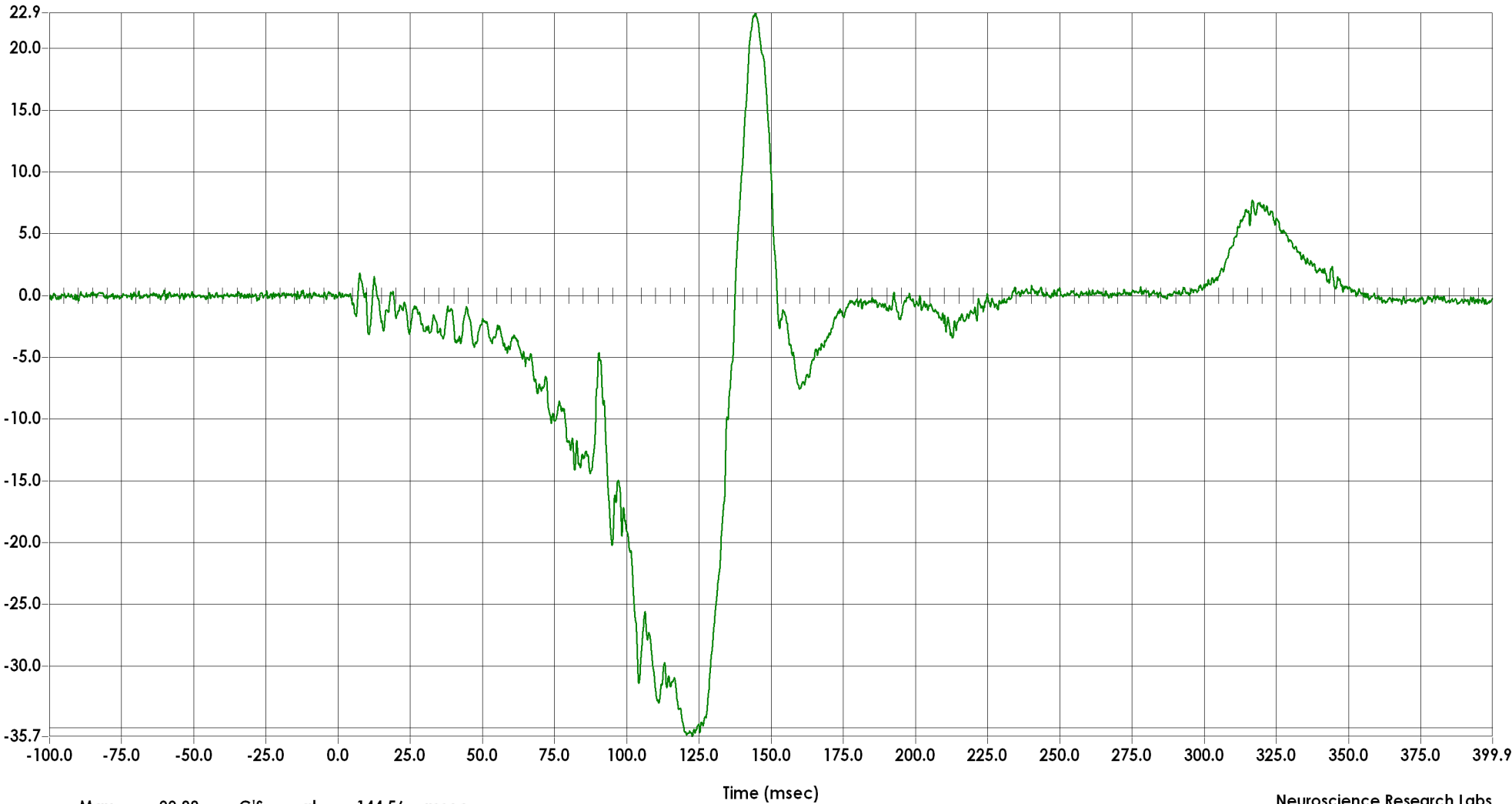
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Passenger pelvis acceleration XL



Max 22.88 G's at 144.56 msec
Min -35.71 G's at 122.72 msec

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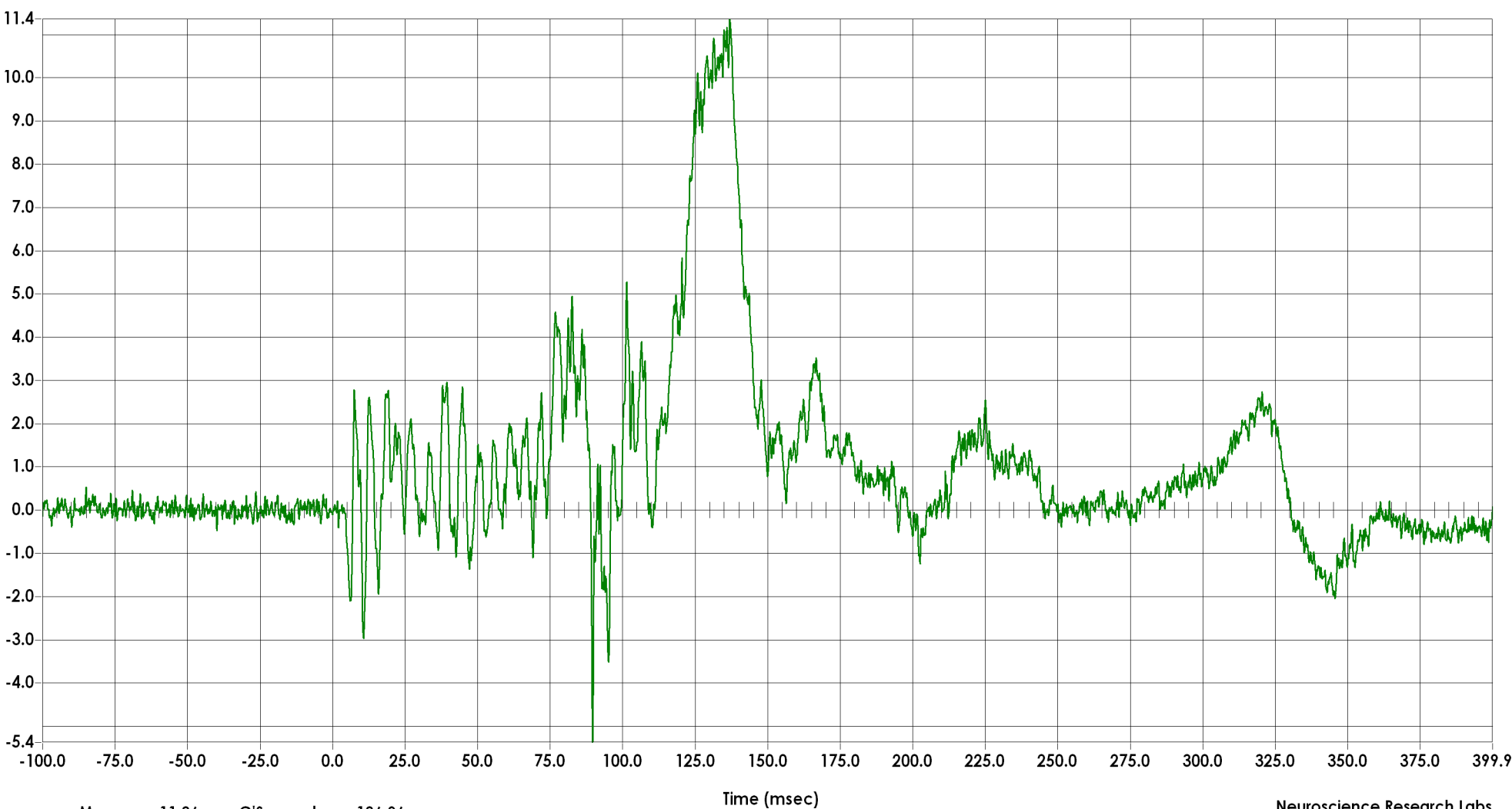
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location PVCN
Sensor Info
Serial Number A011340



G'S Pelvis, sacrum linear acceleration n; YL



Max 11.36 G'S at 136.96 msec
Min -5.37 G'S at 89.60 msec

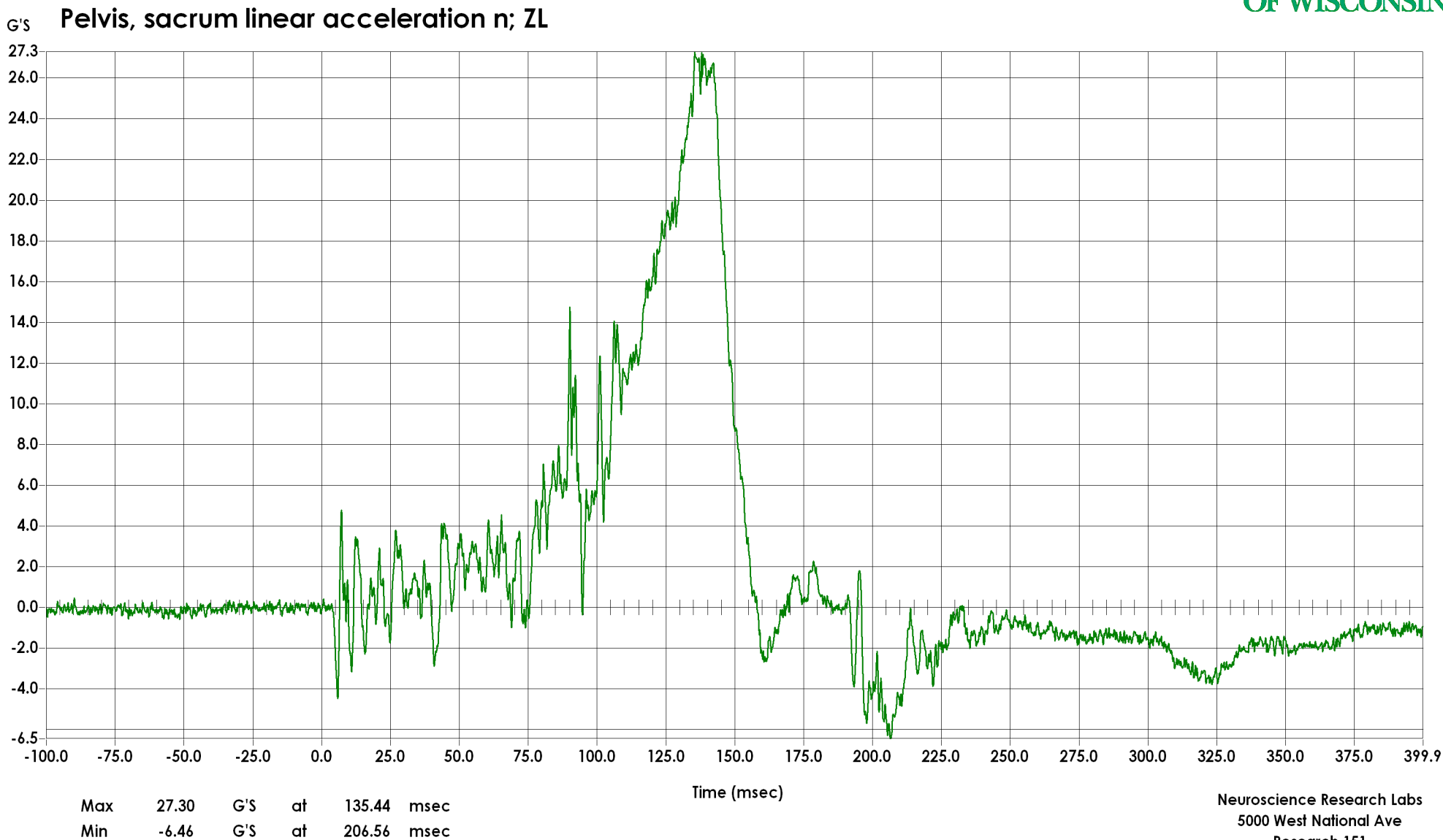
SOI001 Plot 136

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location PVCN
Sensor Info
Serial Number A011342



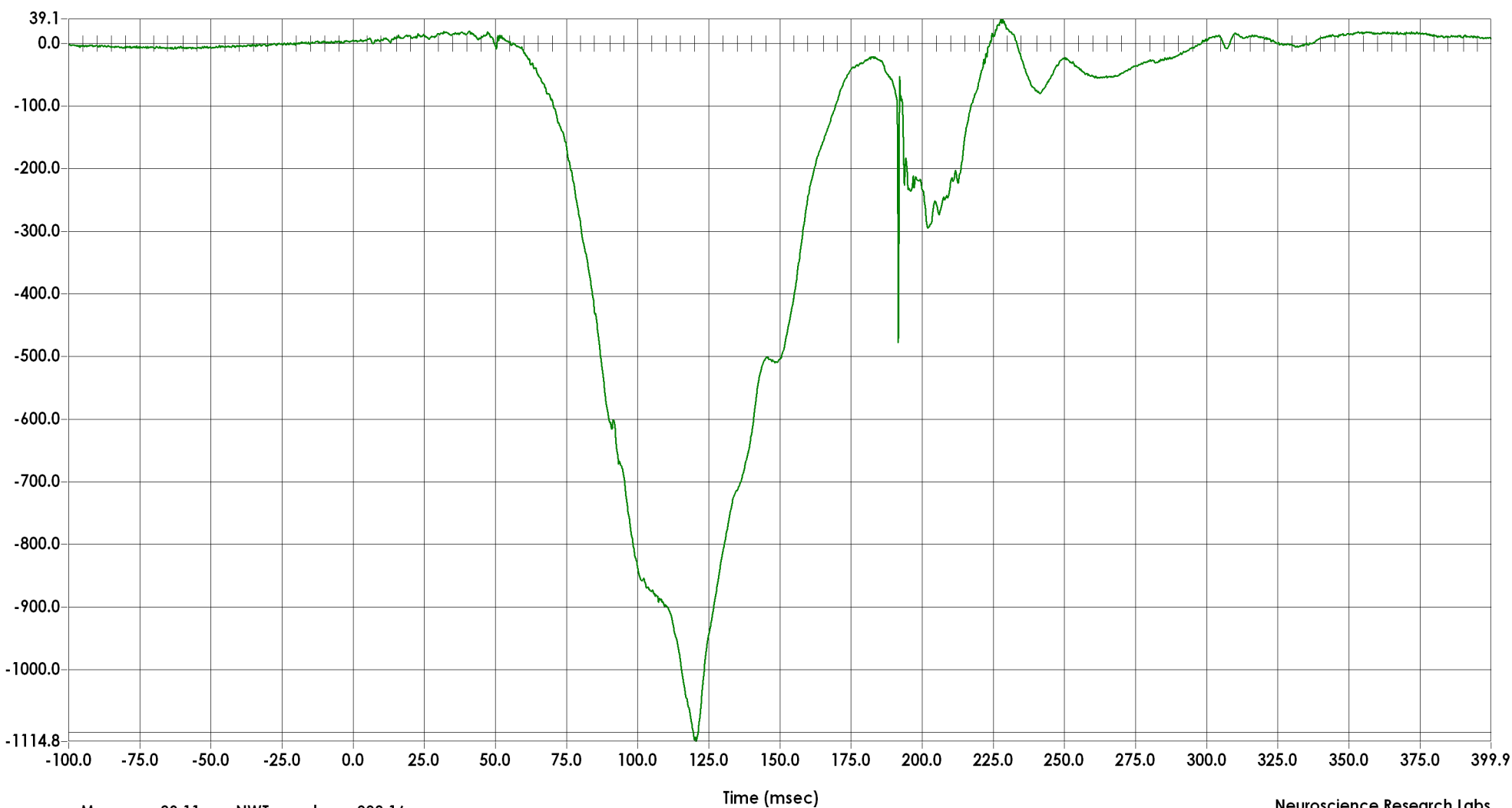
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Passenger upper neck loadcell FX



Max 39.11 NWT at 228.16 msec
Min -1114.76 NWT at 120.56 msec

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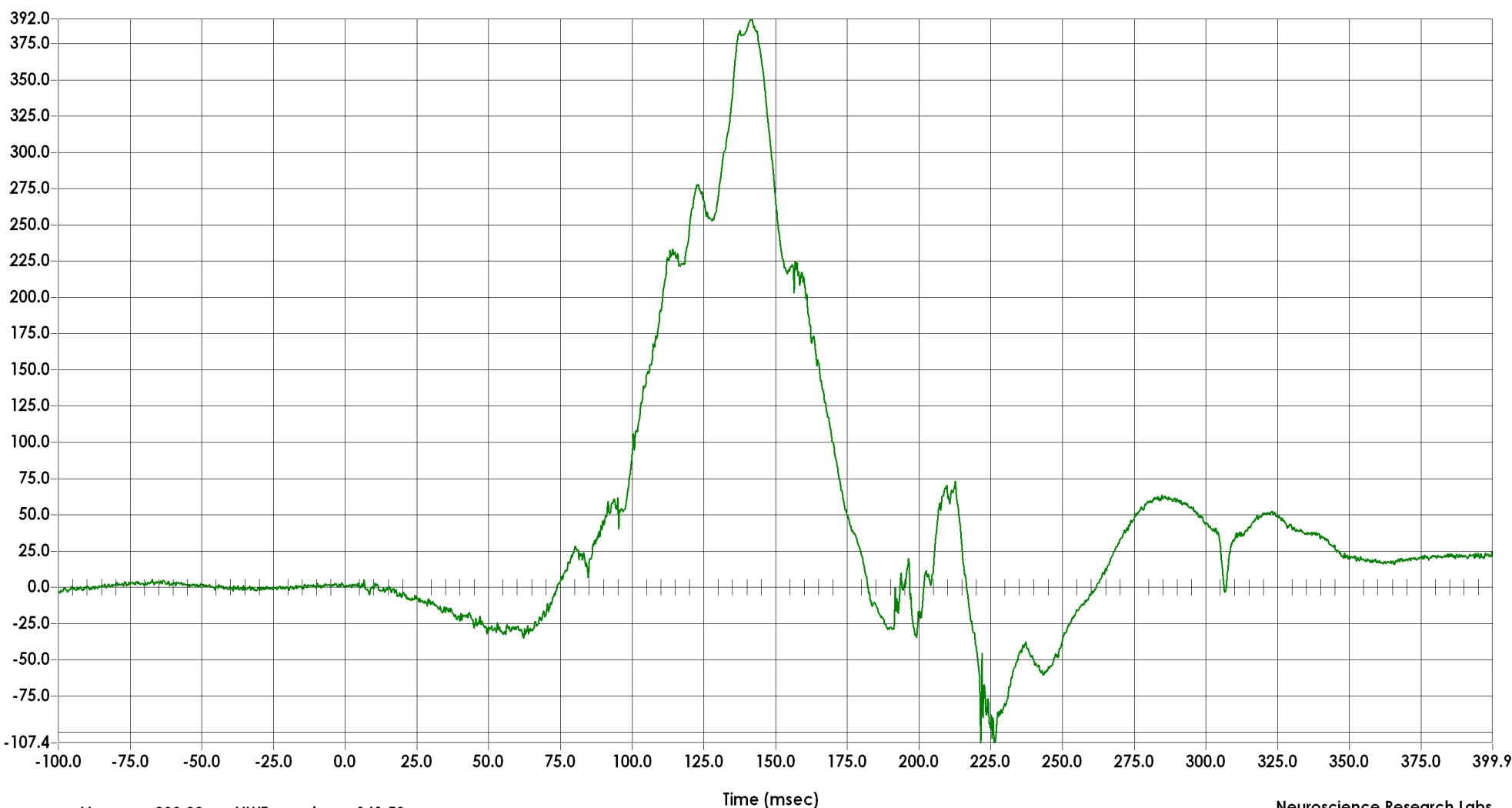
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Passenger upper neck loadcell FY



Max 392.00 NWT at 141.52 msec
Min -107.36 NWT at 221.52 msec

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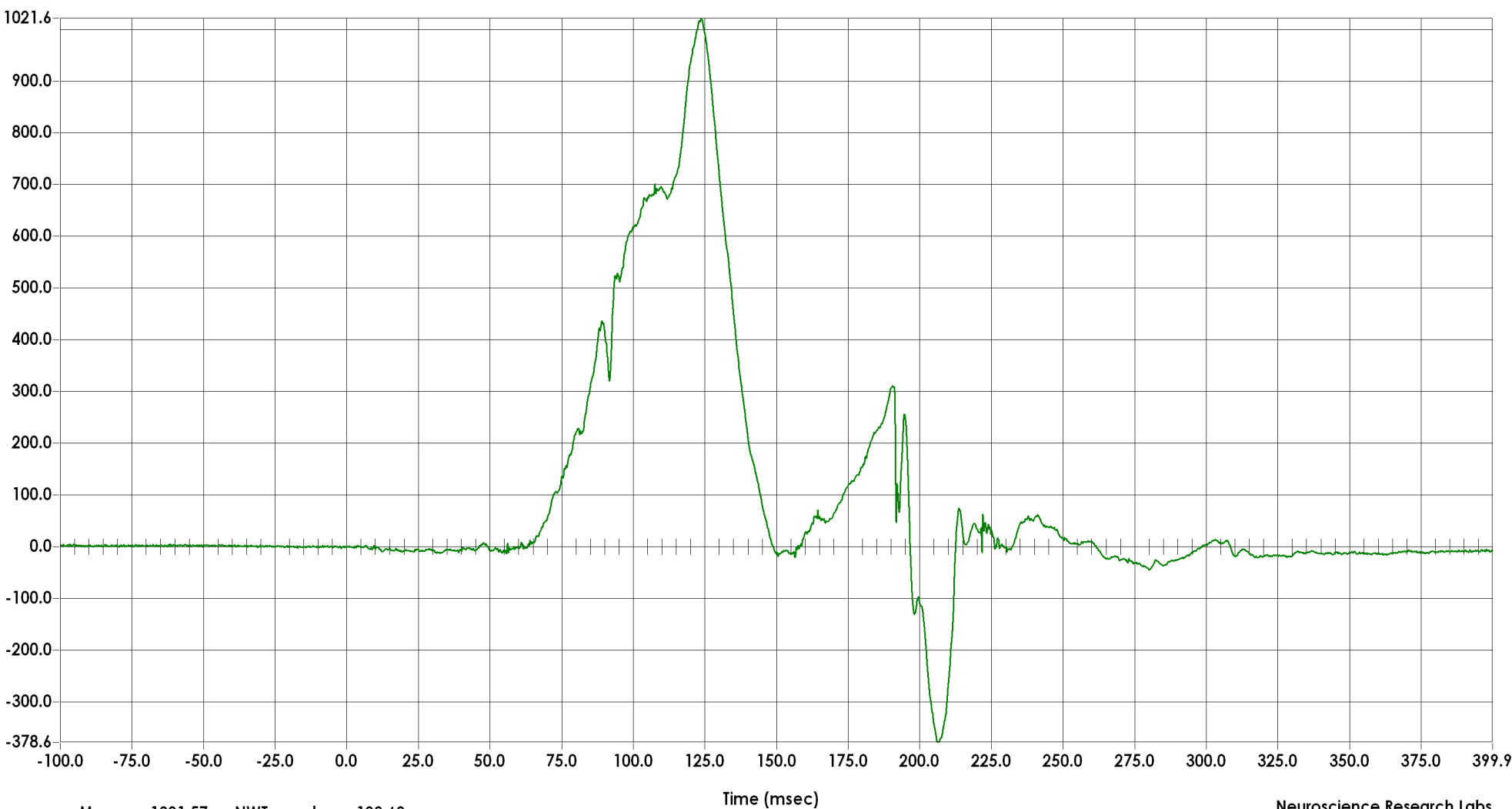
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Passenger upper neck loadcell FZ



Max 1021.57 NWT at 123.68 msec
Min -378.63 NWT at 206.40 msec

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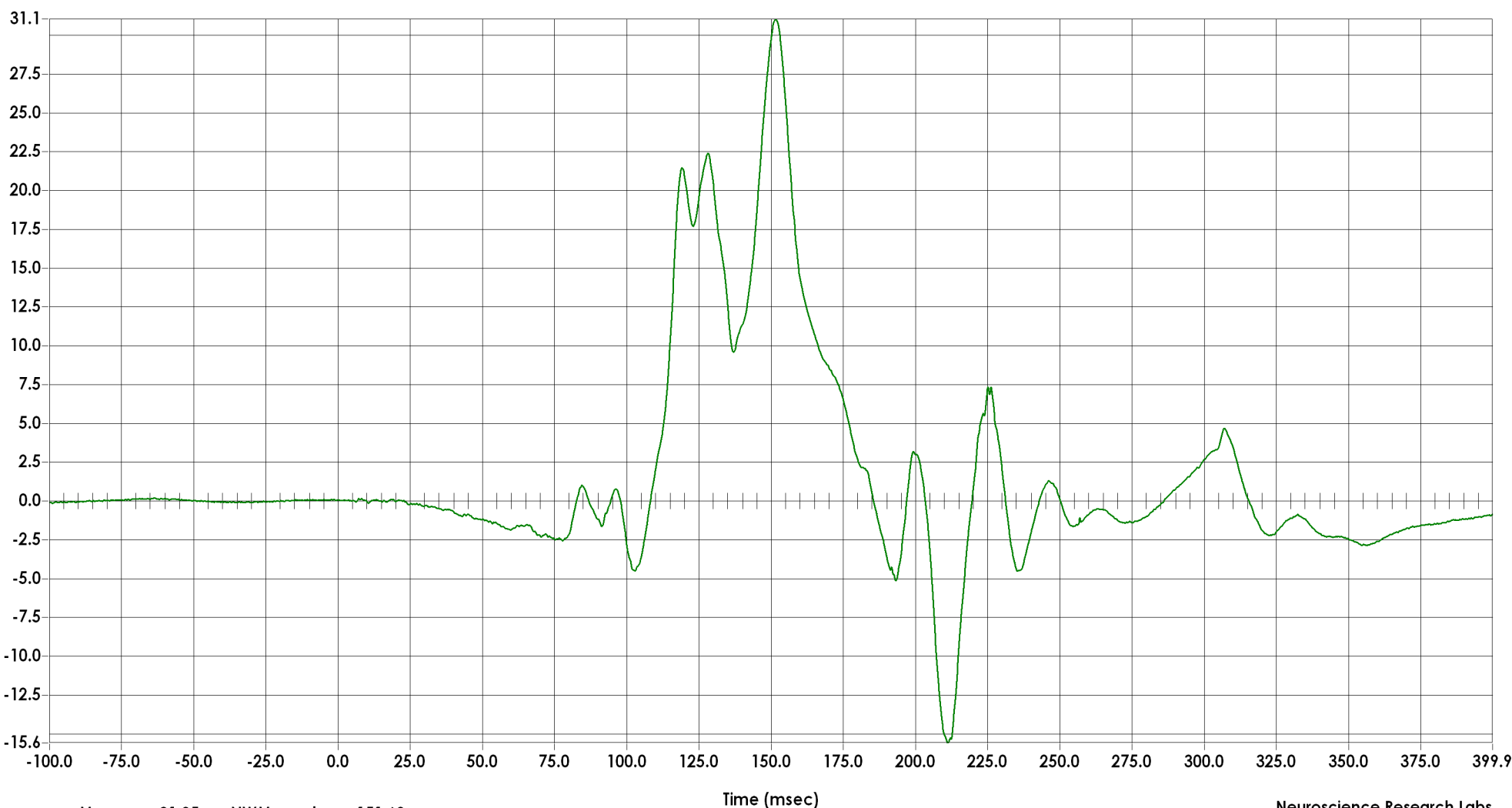
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Passenger upper neck loadcell MX



Max 31.05 NWM at 151.60 msec
Min -15.59 NWM at 211.20 msec

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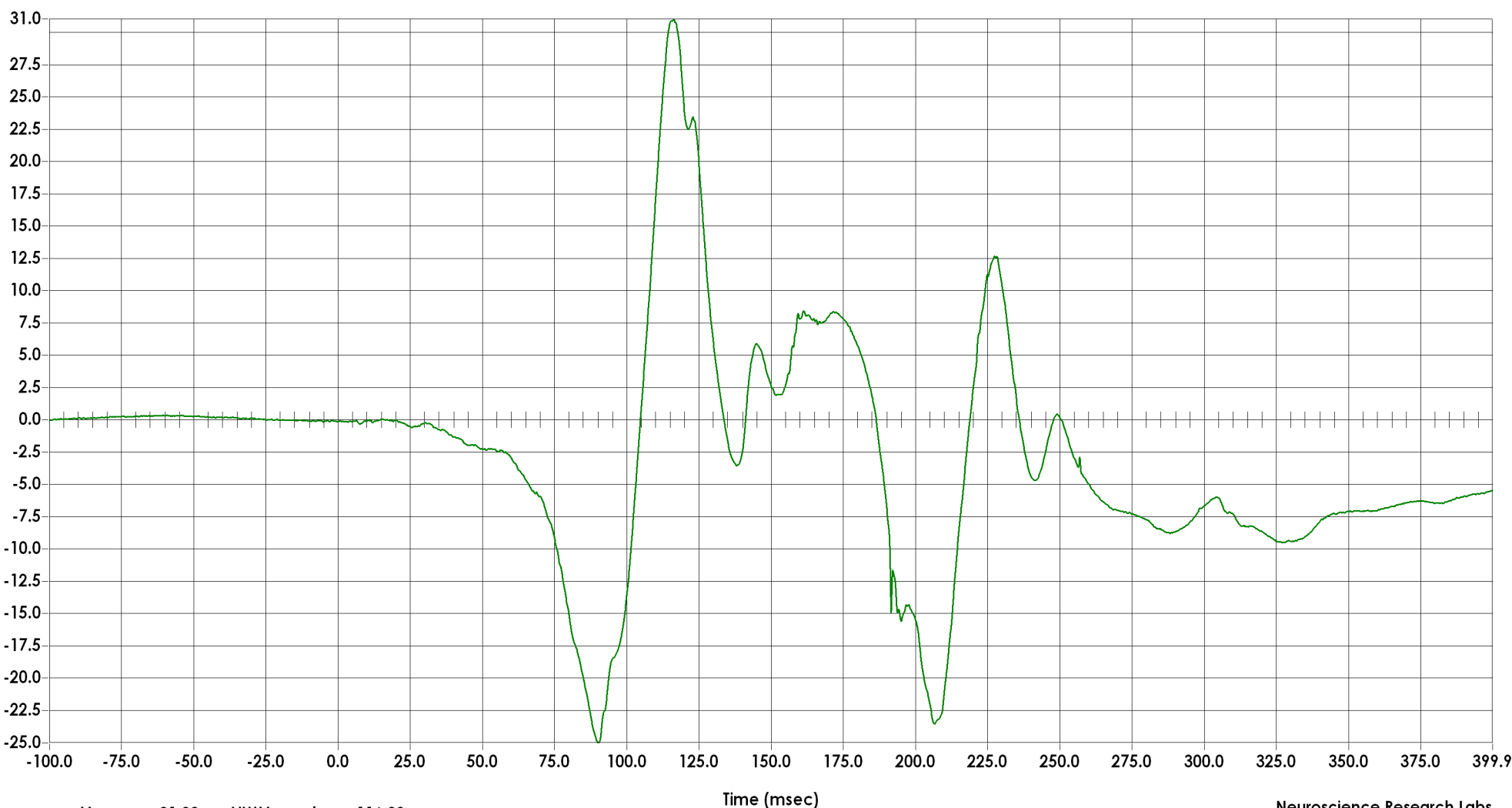
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Passenger upper neck loadcell MY



Max 31.03 NWM at 116.32 msec
Min -25.02 NWM at 90.16 msec

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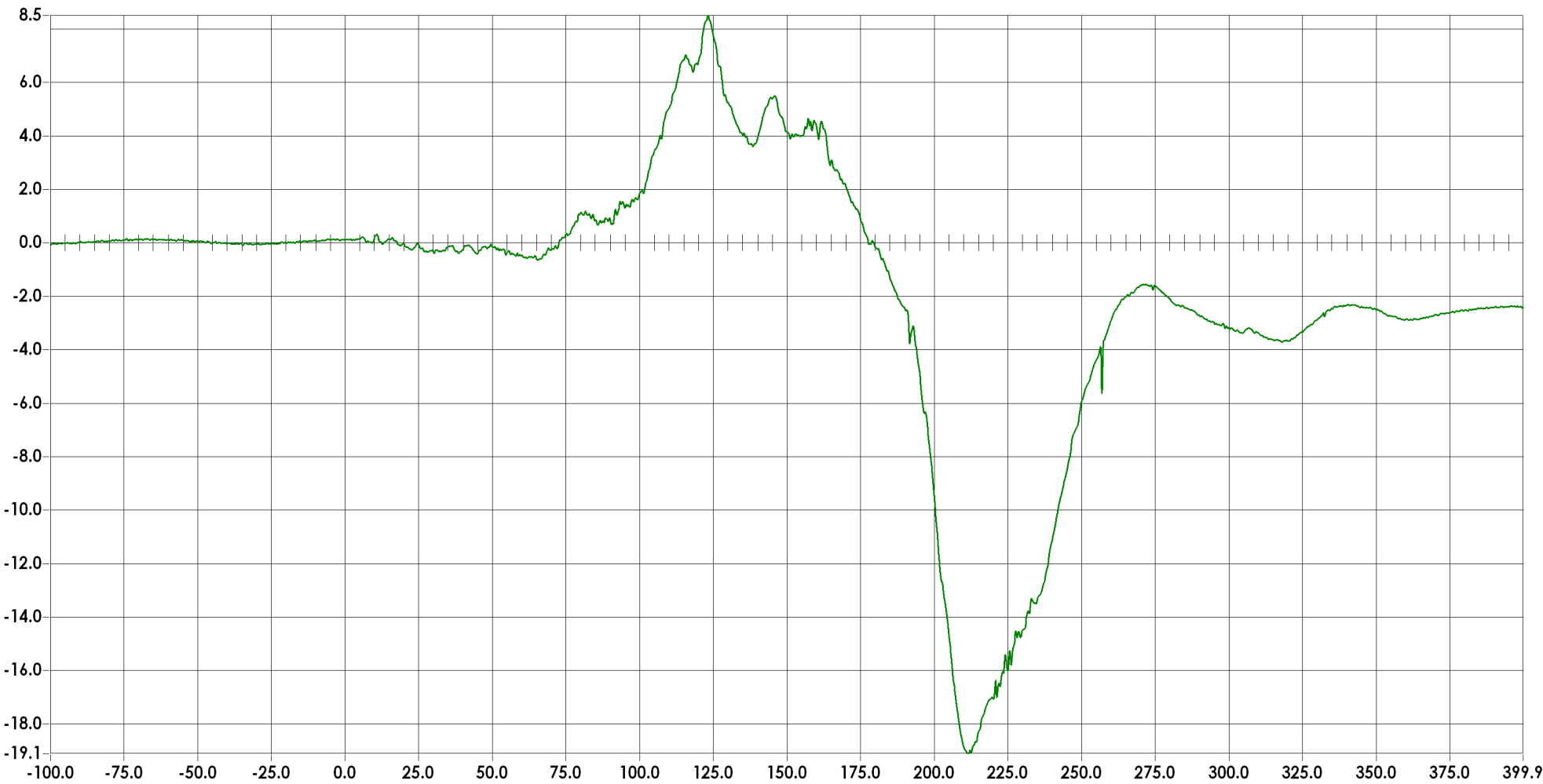
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Passenger upper neck loadcell MZ



Max 8.51 NWM at 123.20 msec
Min -19.11 NWM at 211.52 msec

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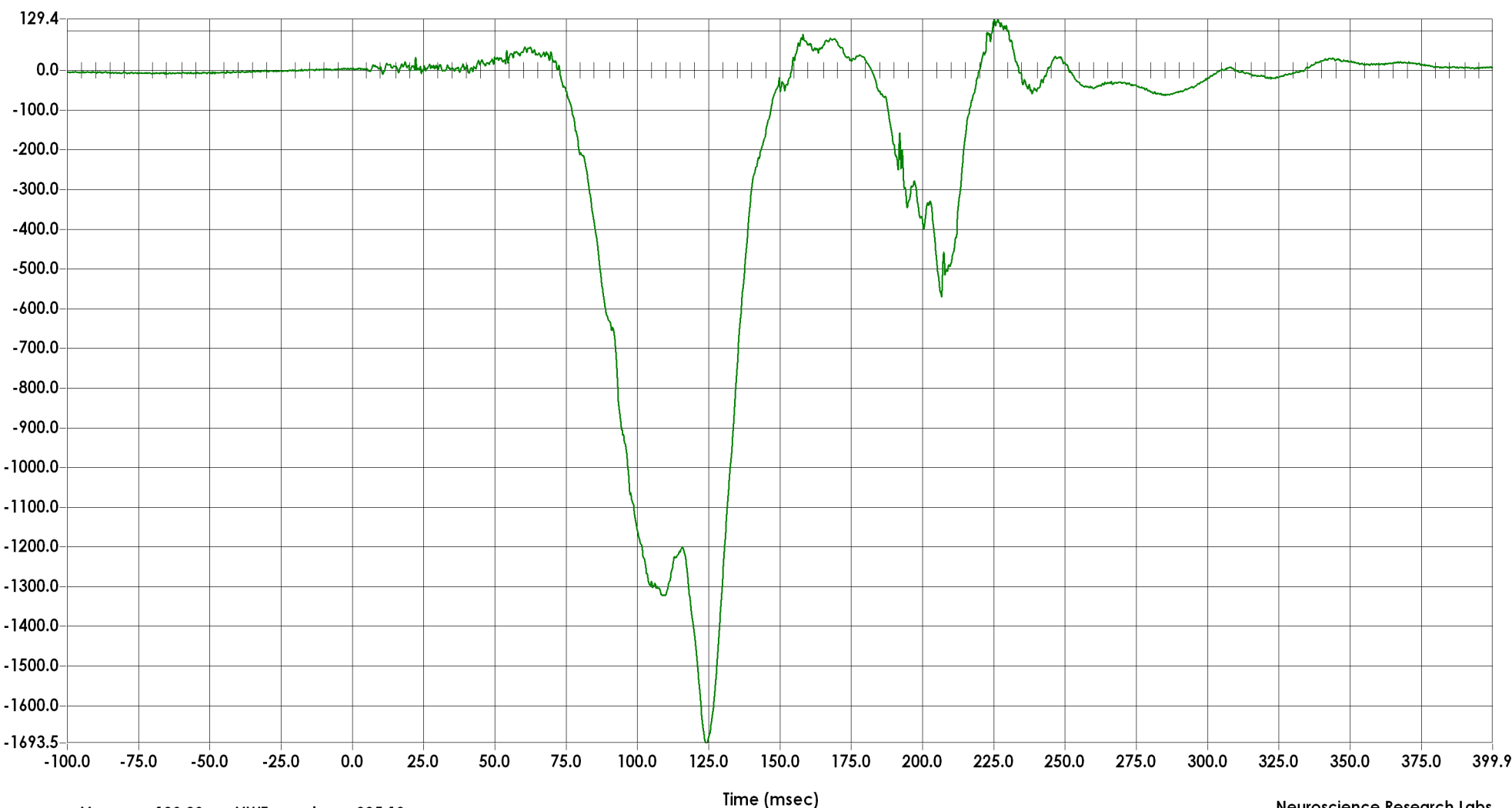
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Passenger lower neck loadcell XL



Max 129.39 NWT at 225.12 msec
Min -1693.50 NWT at 124.32 msec

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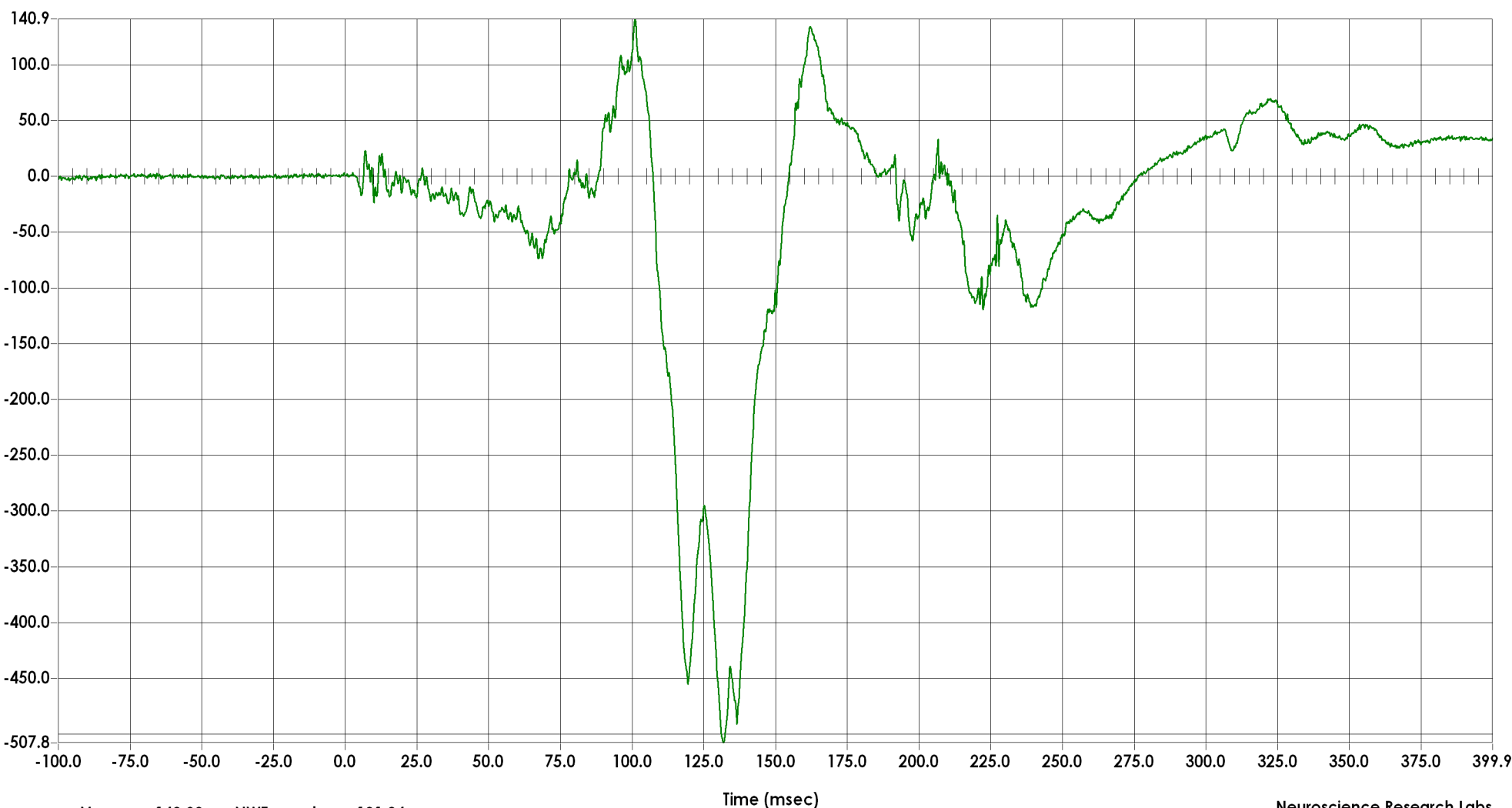
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Passenger lower neck loadcell YL



Max 140.92 NWT at 101.04 msec
Min -507.83 NWT at 131.92 msec

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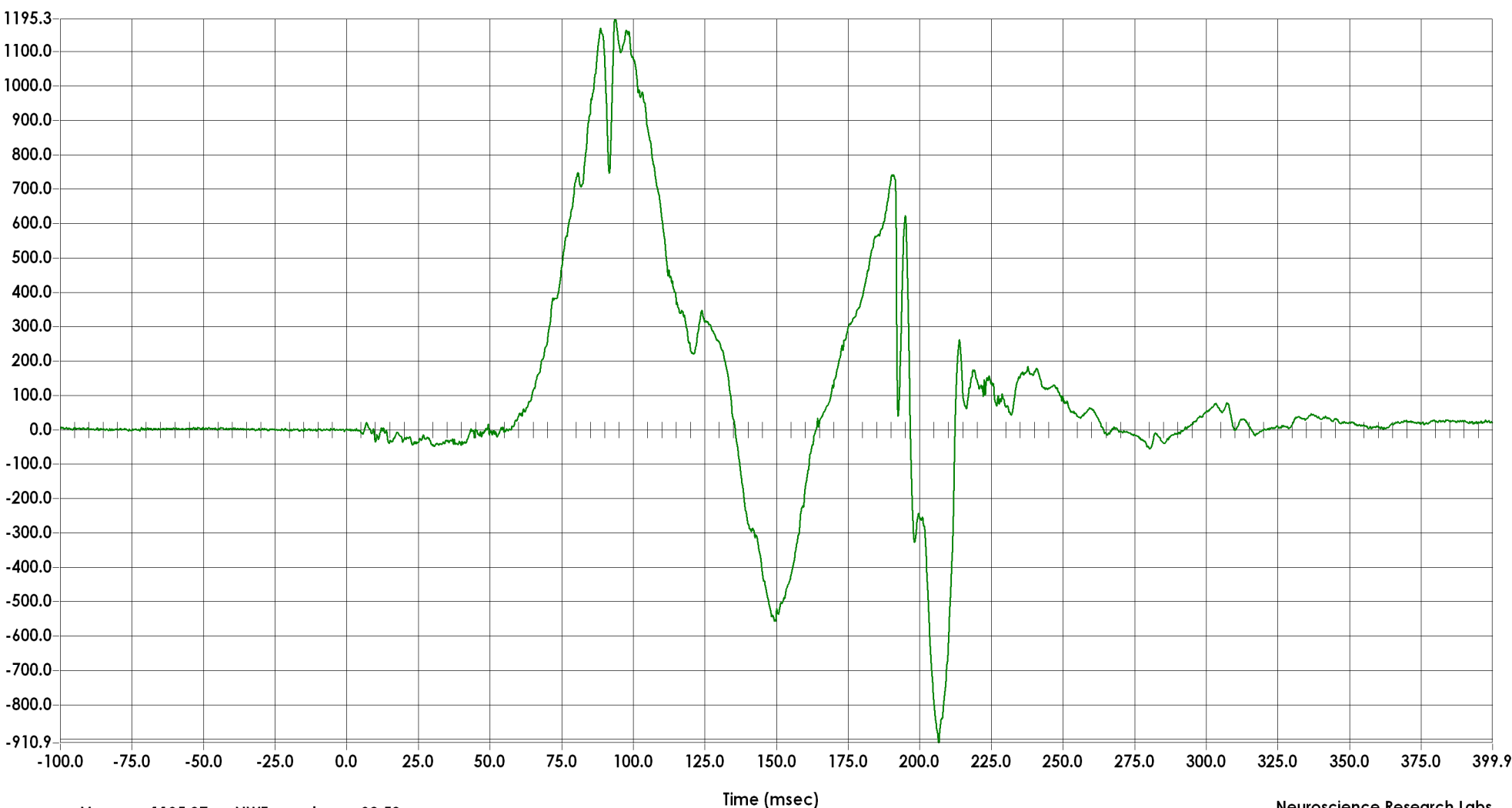
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Passenger lower neck loadcell ZL



Max 1195.27 NWT at 93.52 msec
Min -910.93 NWT at 206.56 msec

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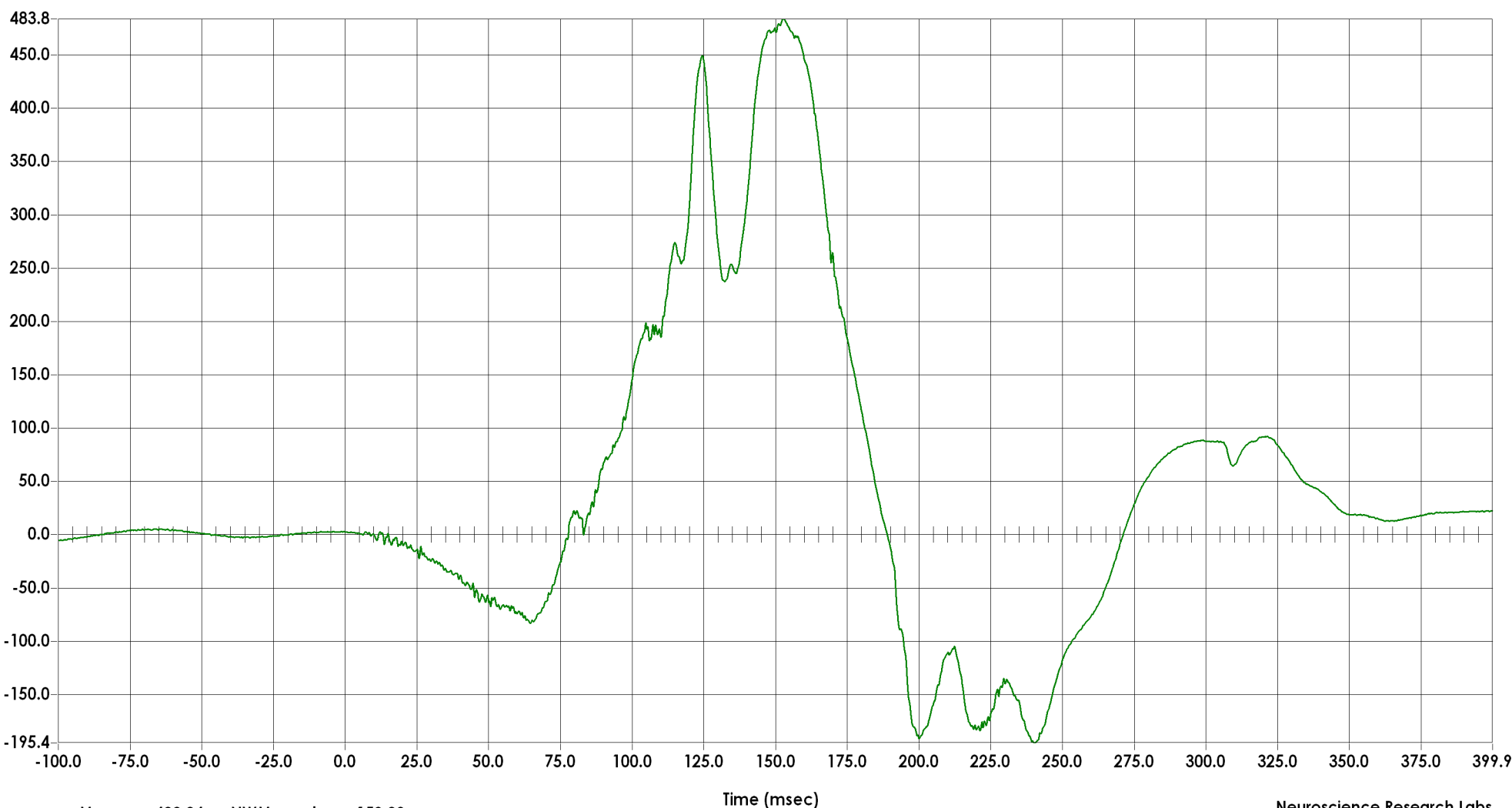
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Passenger lower neck loadcell XL



Max 483.84 NWM at 152.80 msec
Min -195.38 NWM at 240.24 msec

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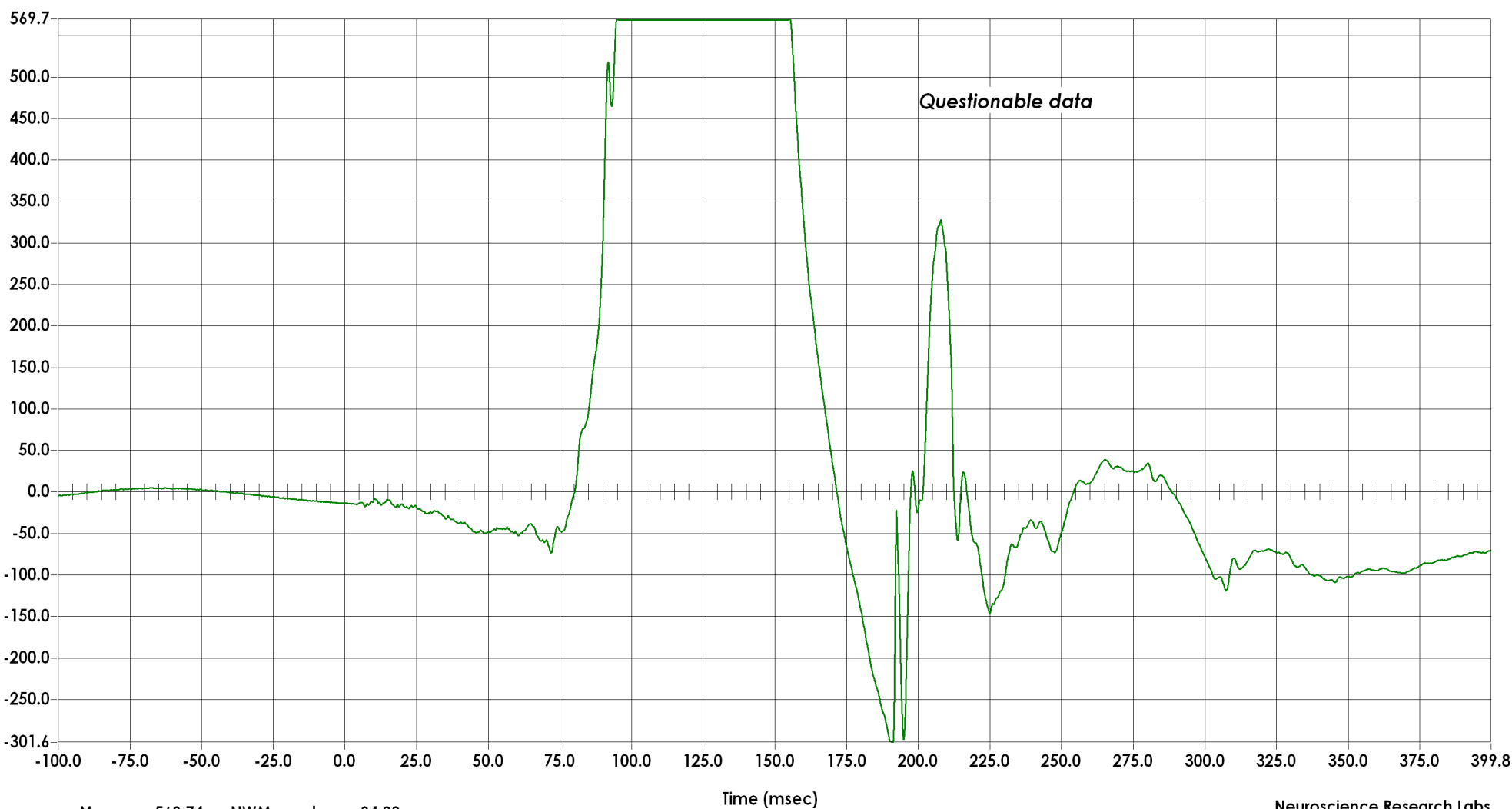
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Passenger lower neck loadcell YL



Max 569.74 NWM at 94.88 msec
Min -301.64 NWM at 191.20 msec

SOI001 Plot 148

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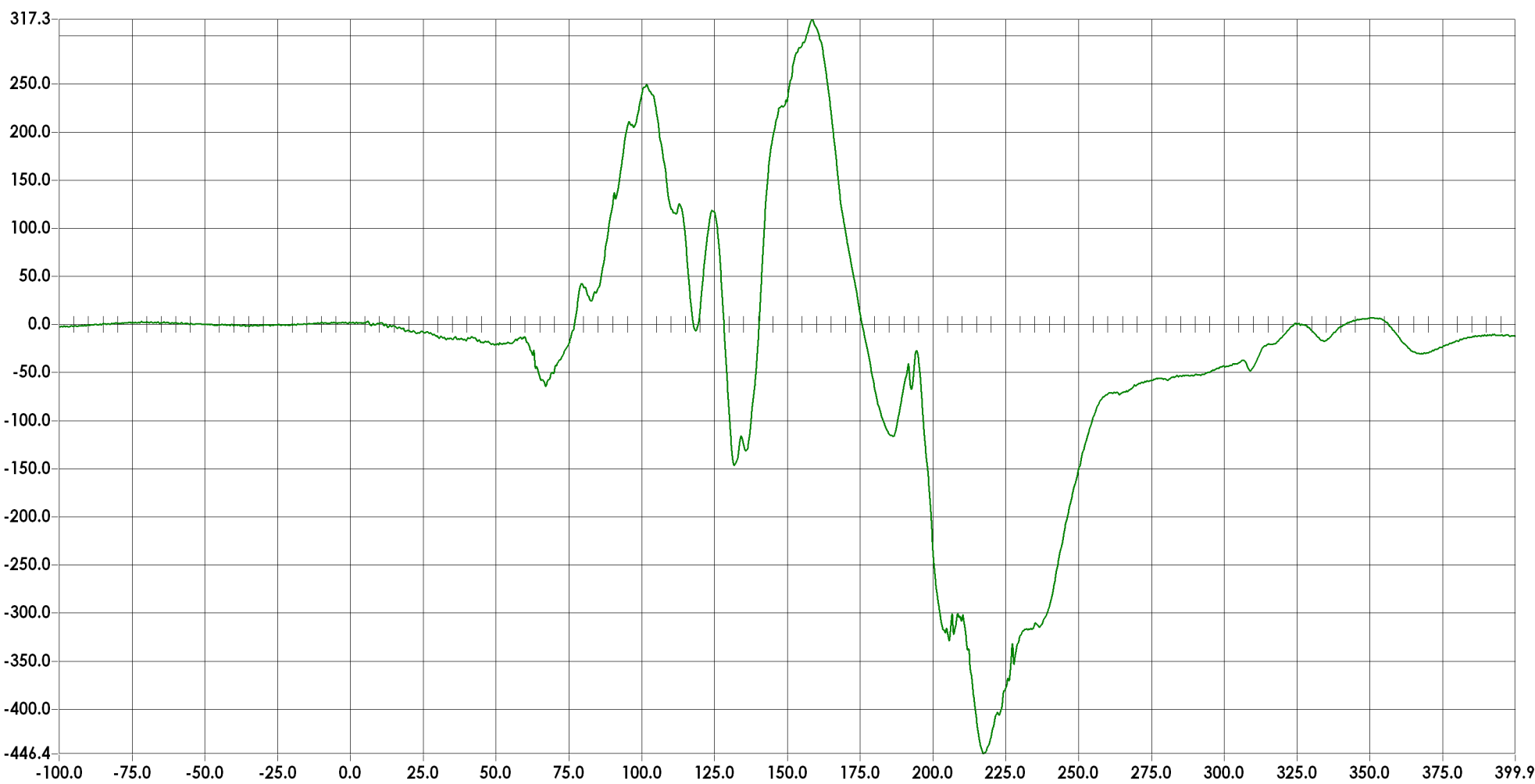
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWM Passenger lower neck loadcell ZL



Max 317.26 NWM at 158.56 msec
Min -446.40 NWM at 217.36 msec

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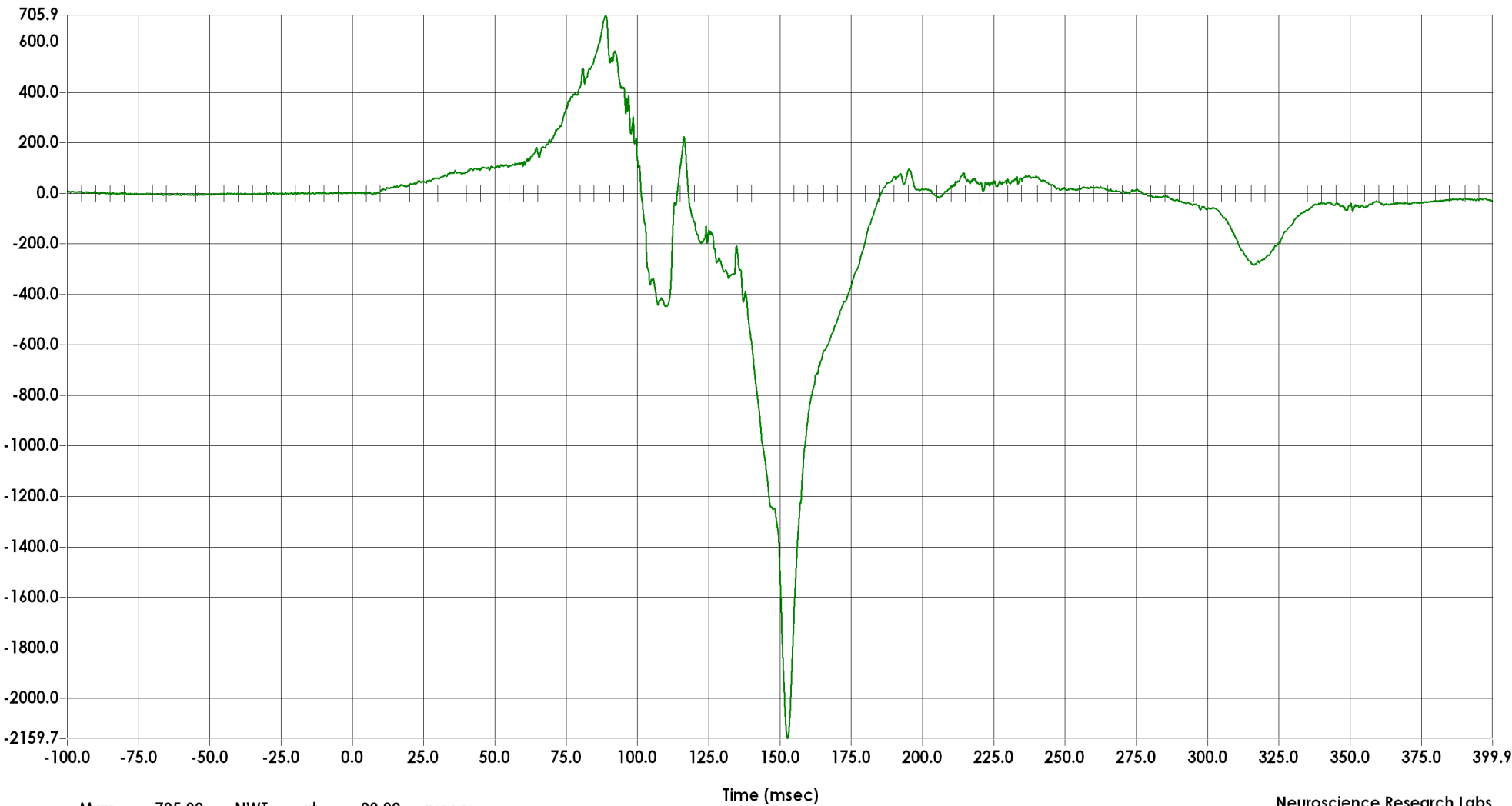
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



NWT Passenger left femur loadcell ZL



Max 705.90 NWT at 88.80 msec
Min -2159.72 NWT at 152.64 msec

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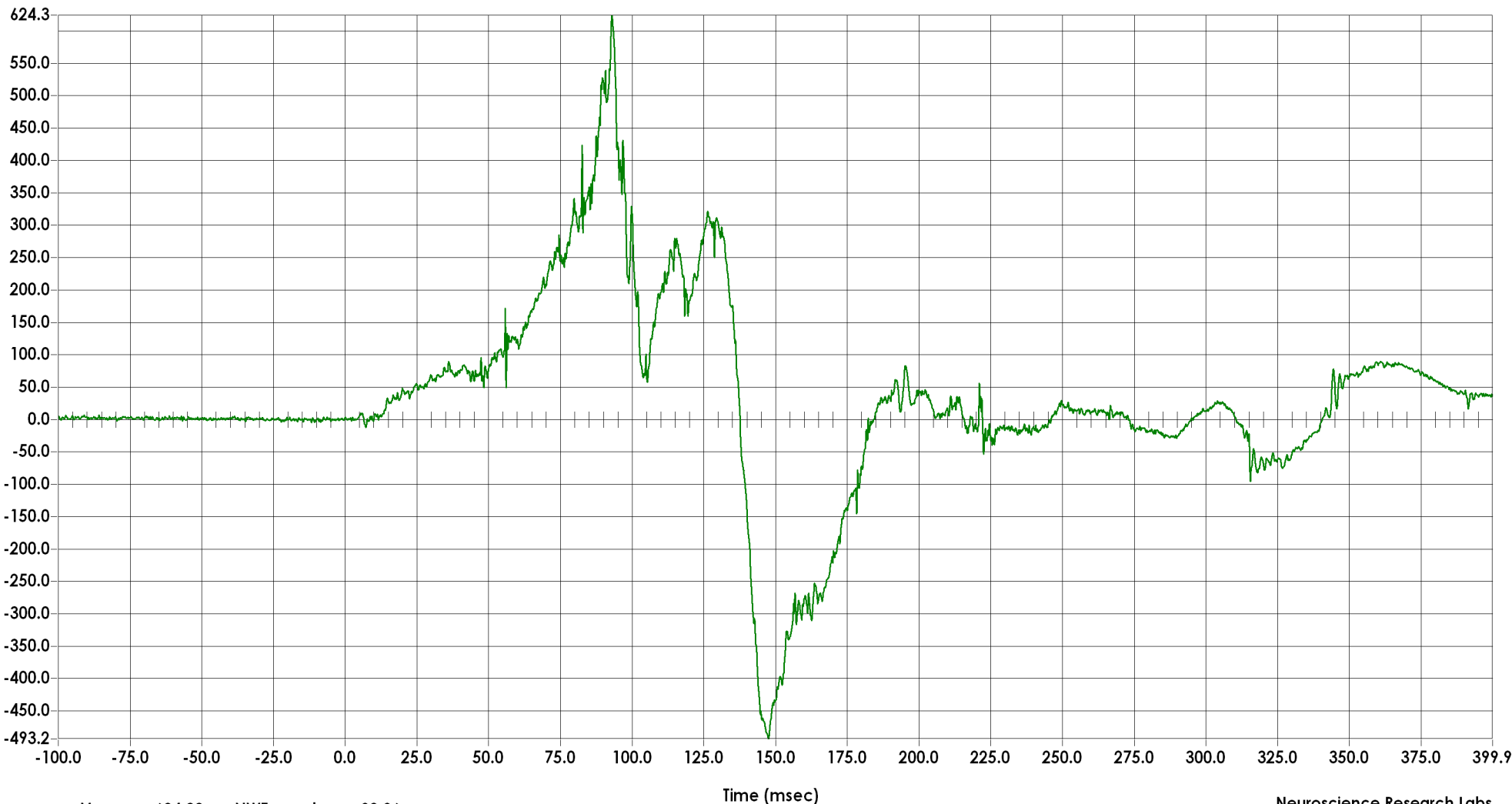
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location FMRR
Sensor Info Denton 2121
Serial Number 2121_255



NWT Passenger right femur loadcell ZL



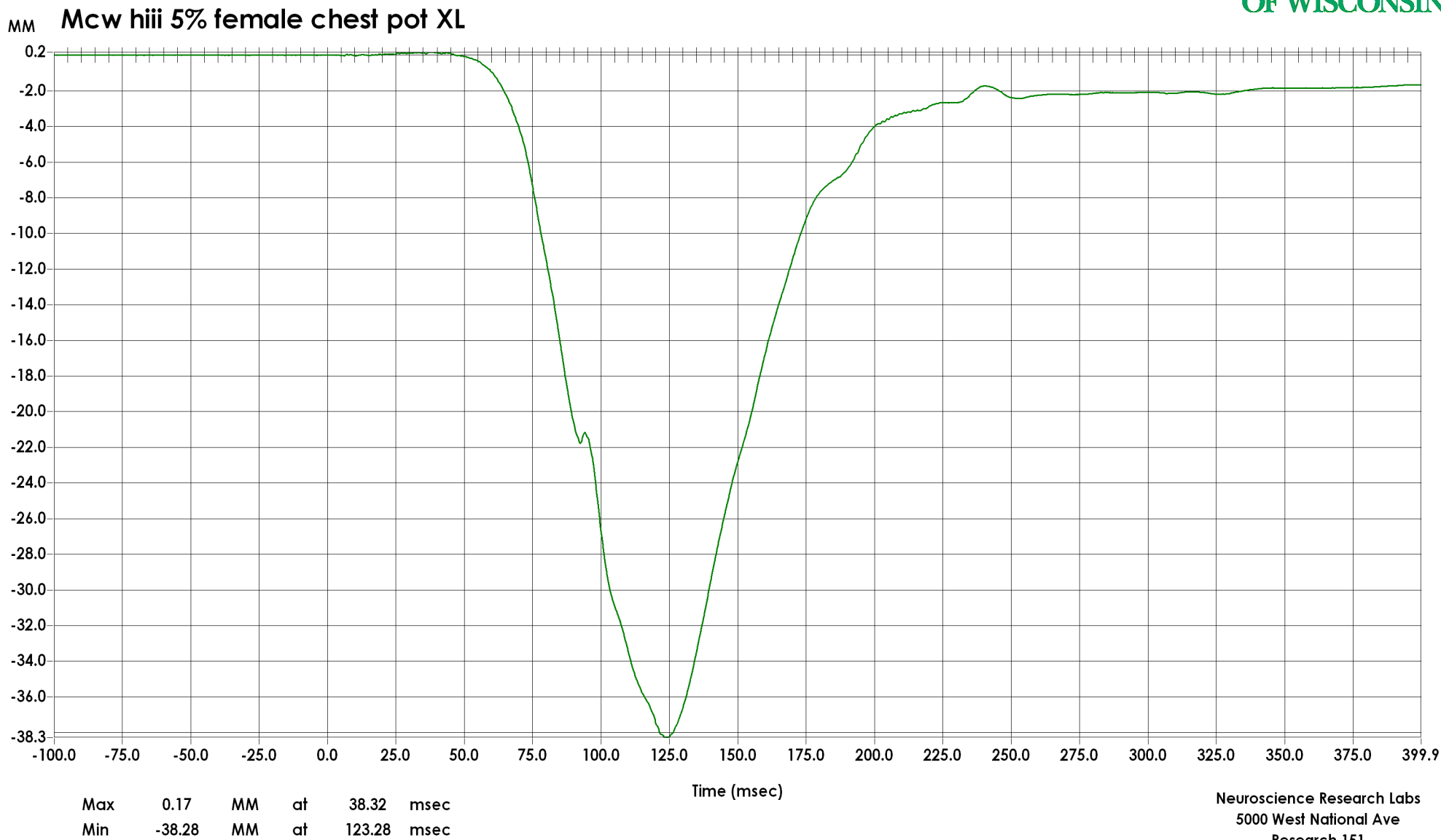
Max 624.33 NWT at 92.96 msec
Min -493.21 NWT at 147.52 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



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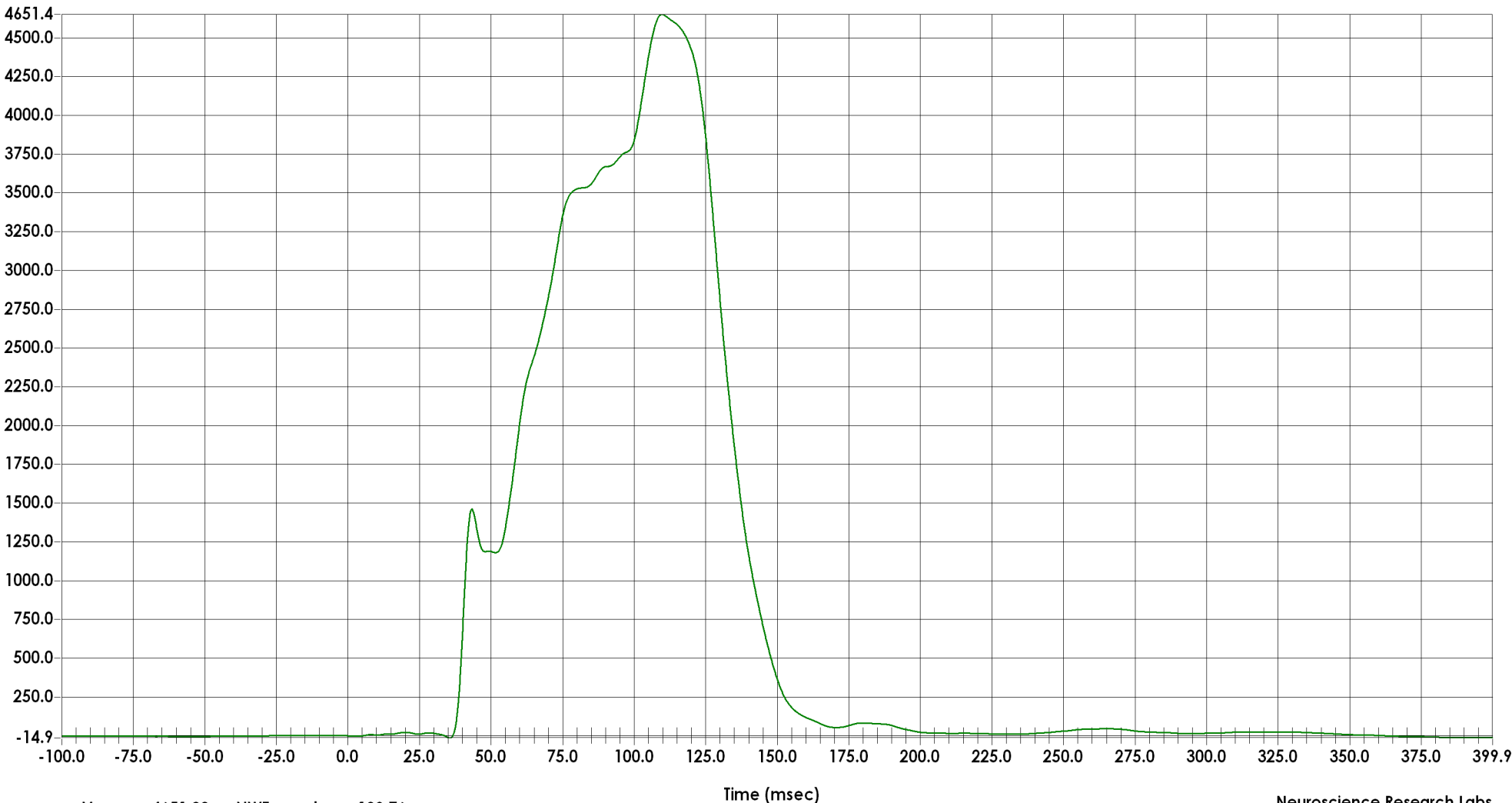
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location SHBT
Sensor Info DENTON 1910
Serial Number 1910_164



NWT Driver shoulder belt loadcell YG



Max 4651.38 NWT at 109.76 msec
Min -14.87 NWT at 35.68 msec

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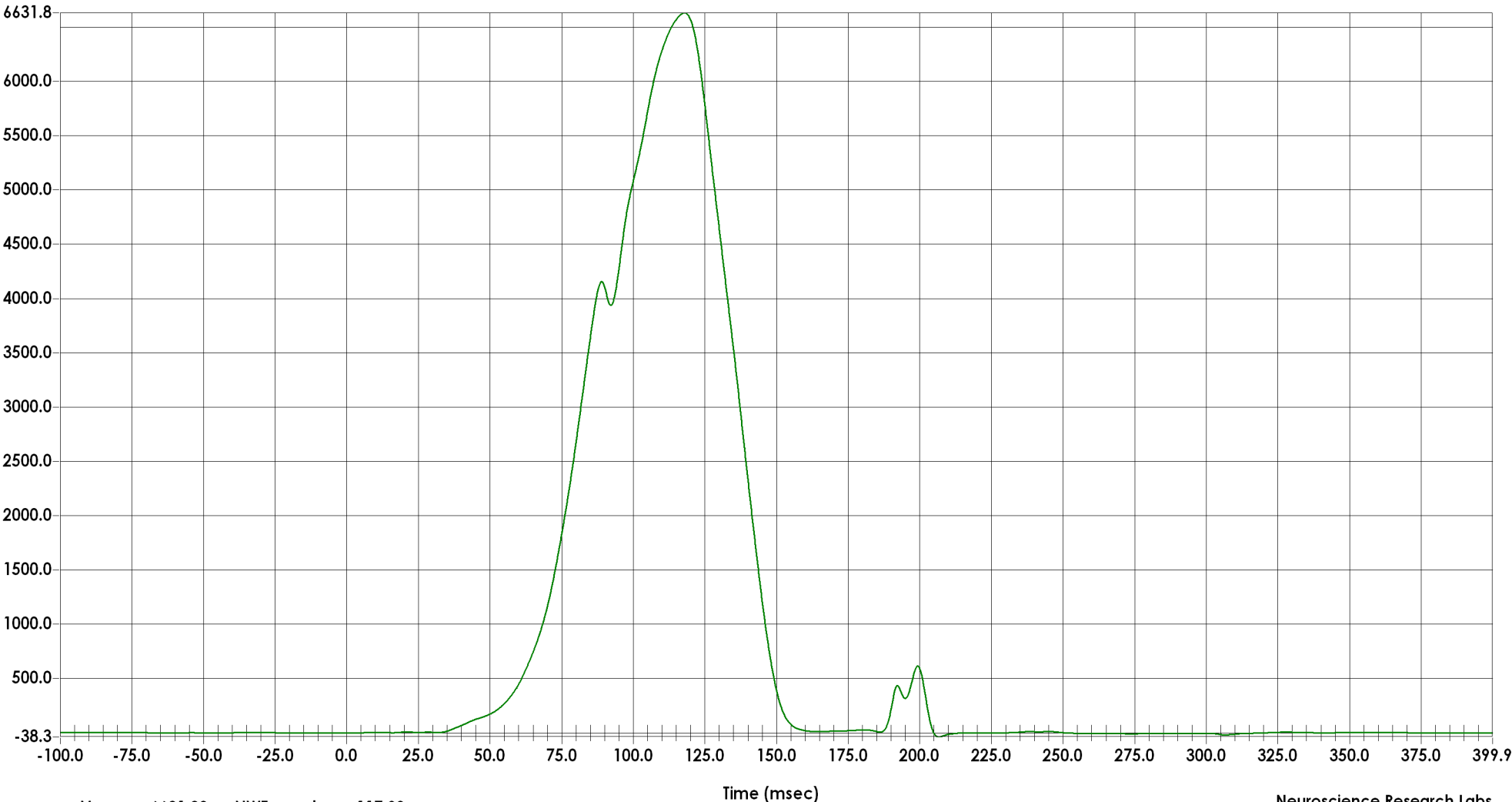
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location SHBT
Sensor Info DENTON 1910
Serial Number 1910_166



NWT Passenger shoulder belt loadcell YG



Max 6631.80 NWT at 117.92 msec
Min -38.31 NWT at 206.64 msec

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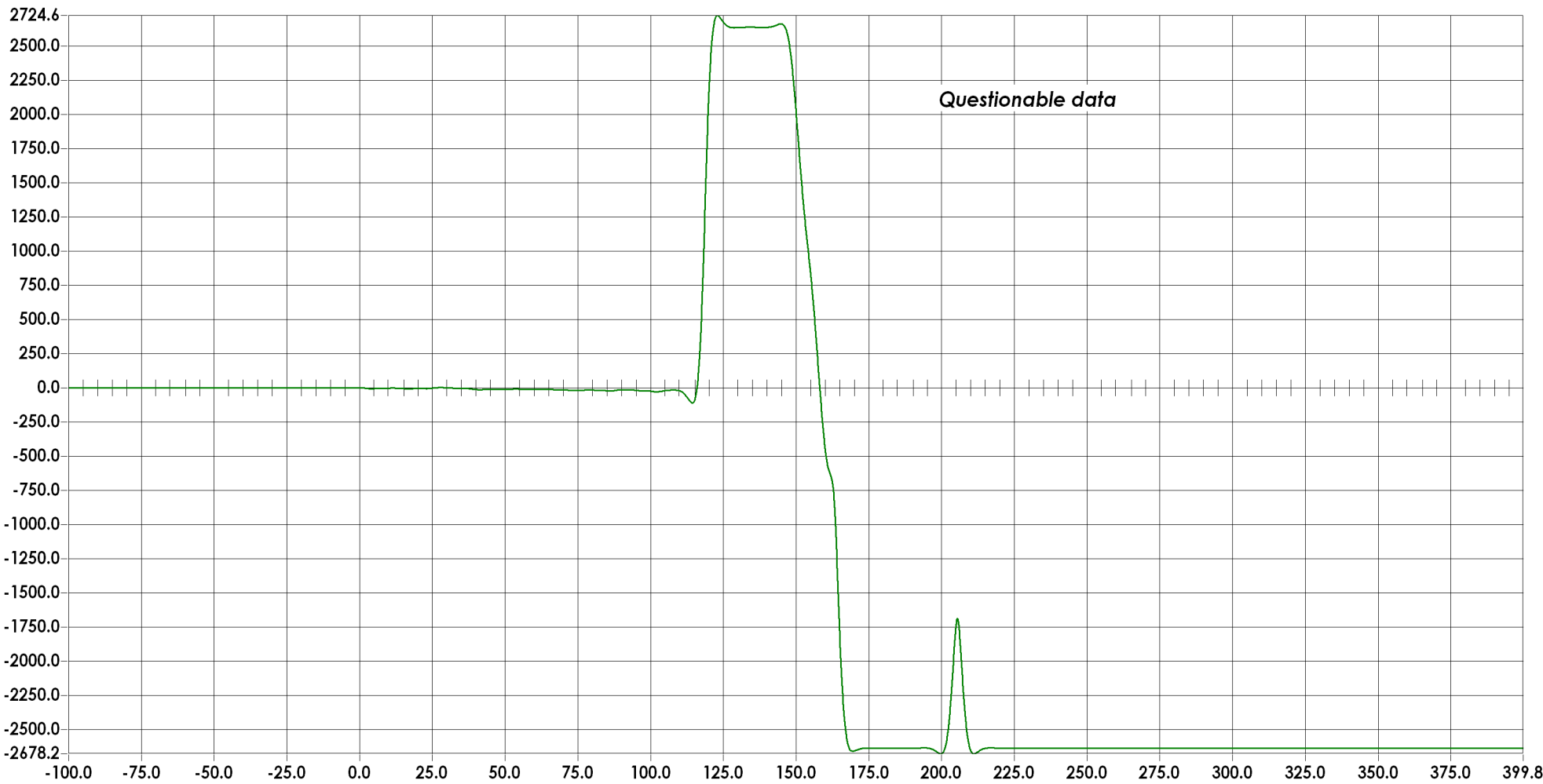
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Left rear seat cross member XG



Max 2724.61 G'S at 122.96 msec
Min -2678.24 G'S at 211.12 msec

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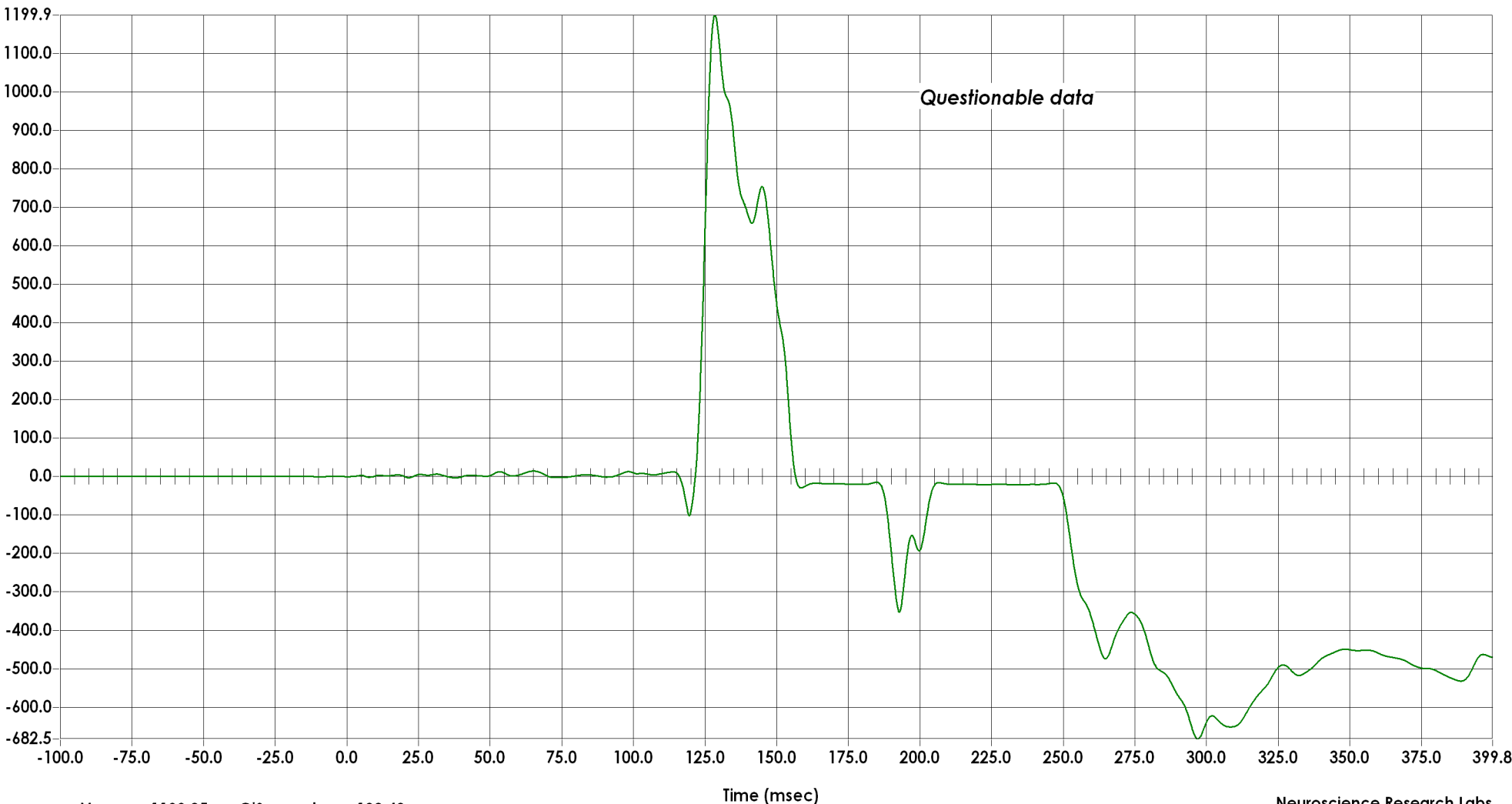
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Left rear seat cross member YG



Max 1199.85 G'S at 128.40 msec
Min -682.50 G'S at 296.96 msec

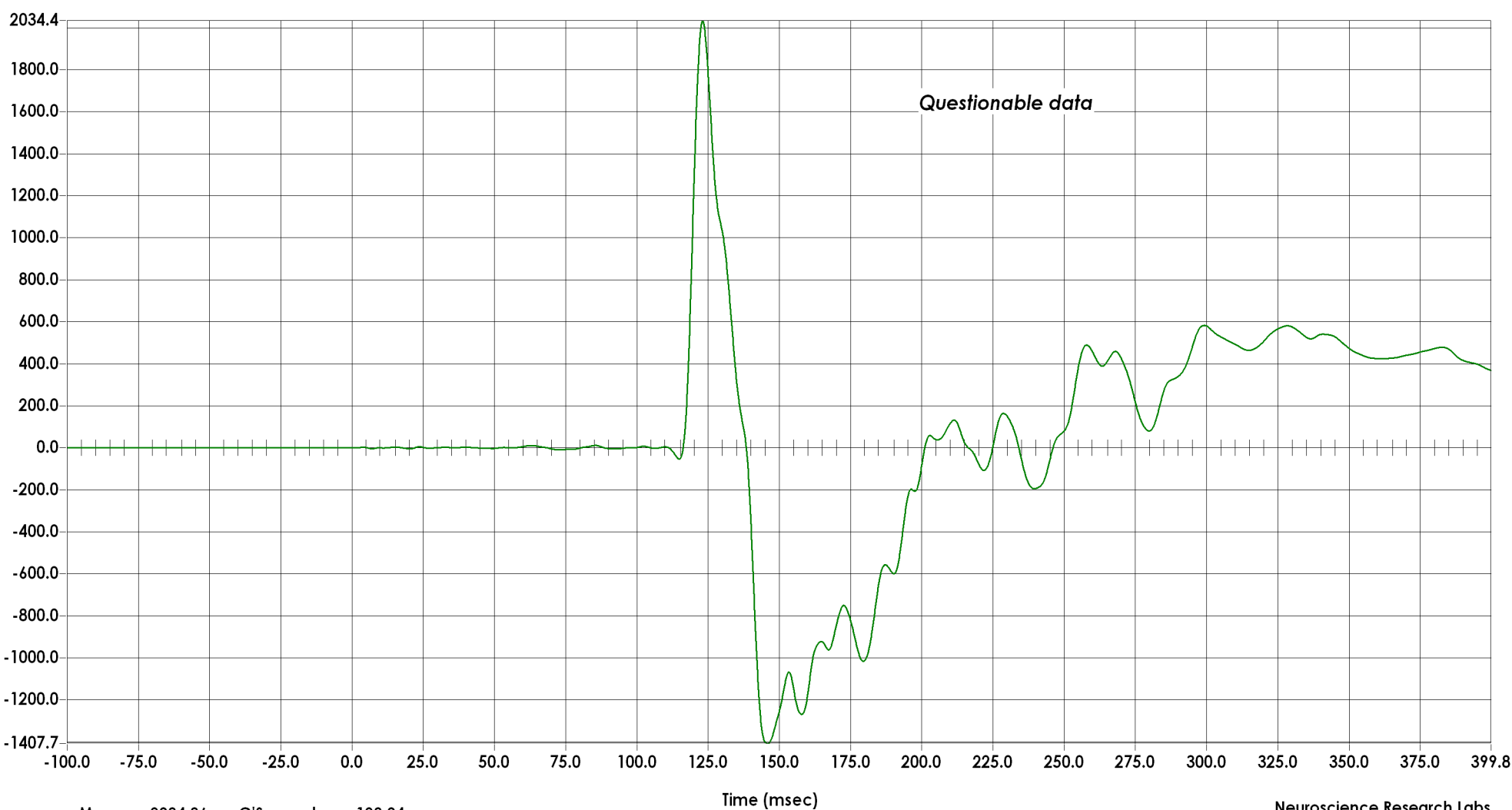
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G's Left rear seat cross member ZG



Max 2034.36 G's at 123.04 msec
Min -1407.66 G's at 145.92 msec

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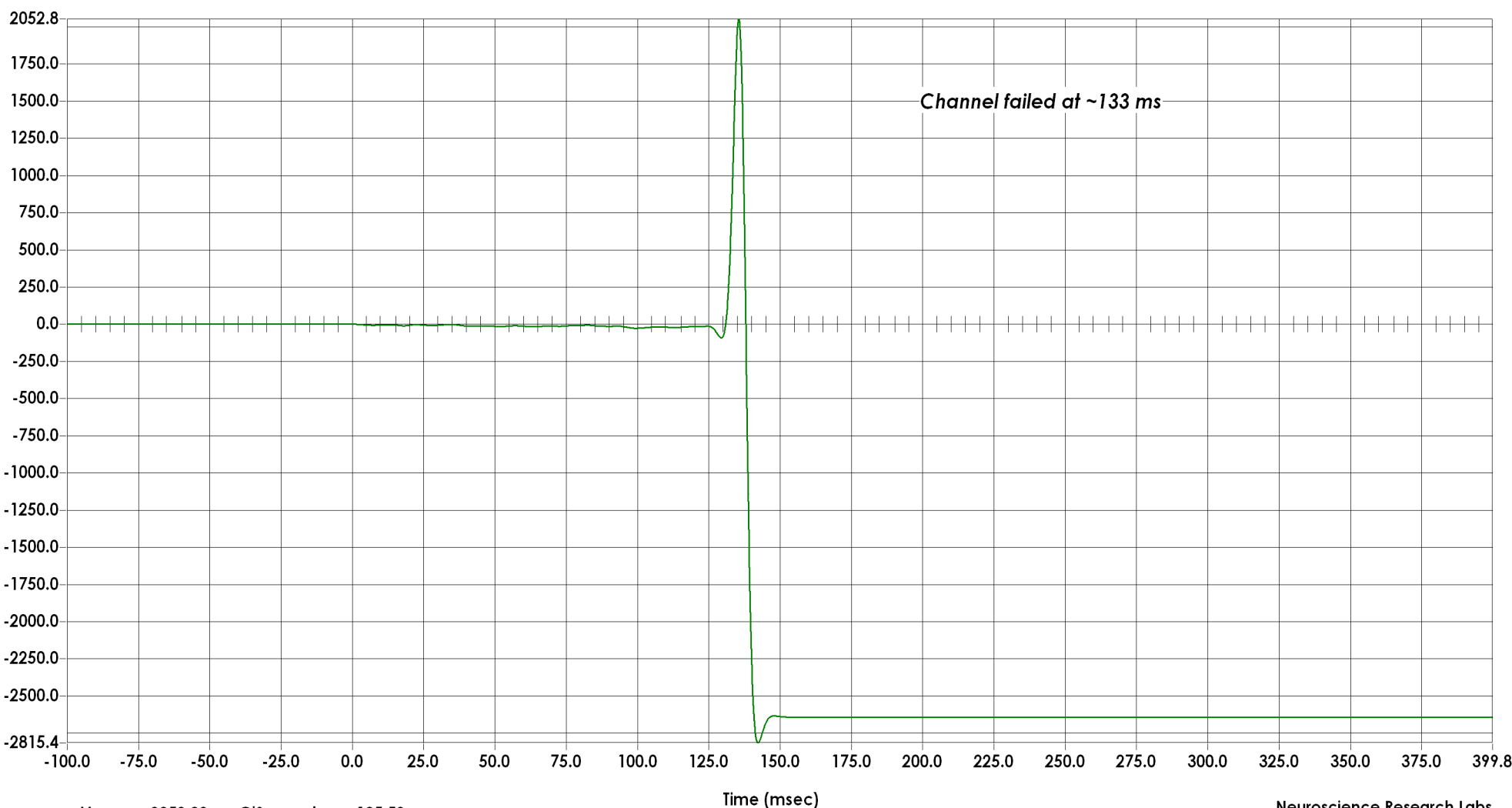
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Right rear seat cross member XG



Max 2052.82 G'S at 135.52 msec
Min -2815.36 G'S at 142.24 msec

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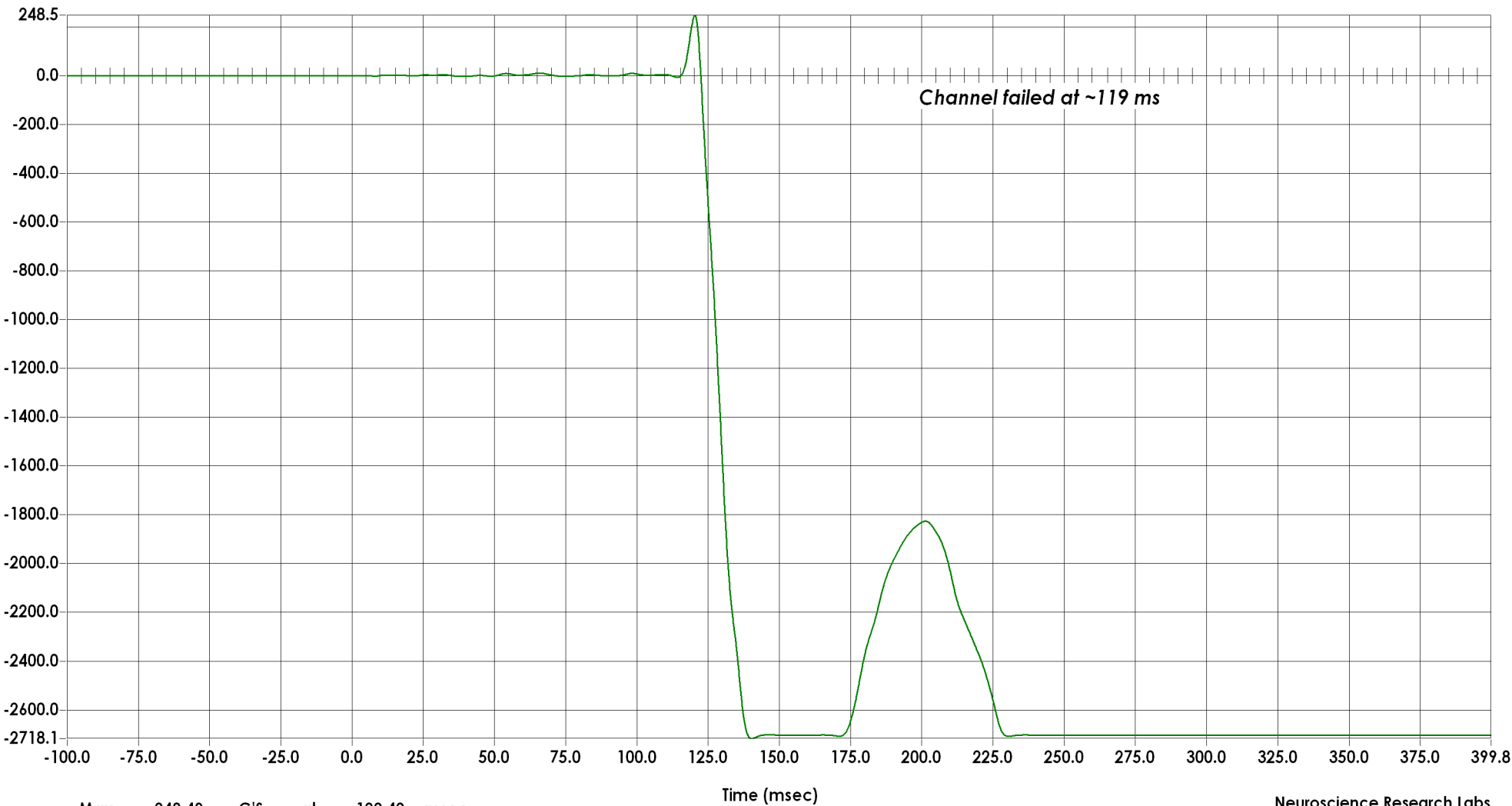
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Right rear seat cross member YG



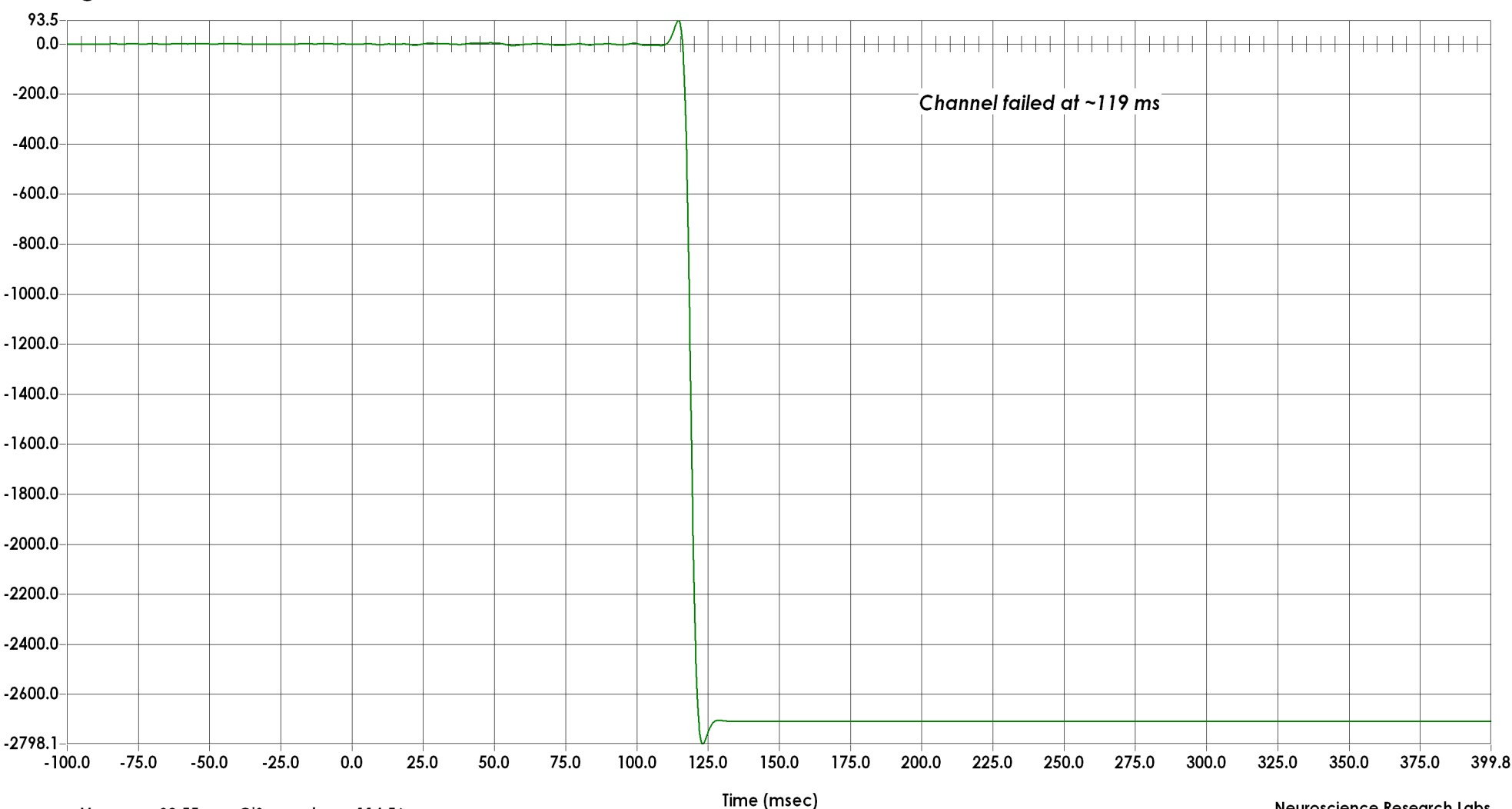
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Right rear seat cross member ZG



Max 93.55 G'S at 114.56 msec
Min -2798.12 G'S at 123.12 msec

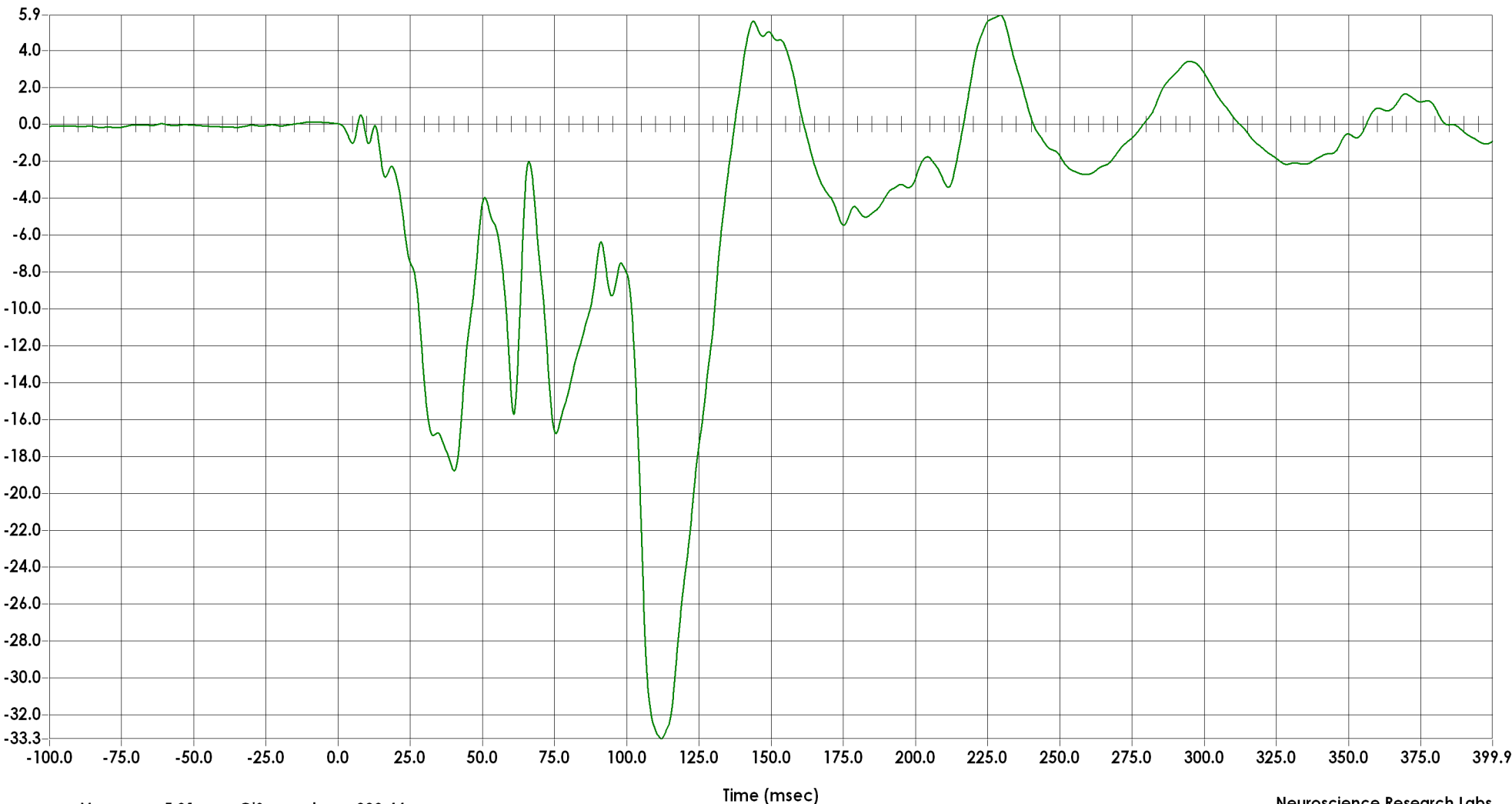
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
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 5.91 G'S at 229.44 msec
Min -33.30 G'S at 112.00 msec

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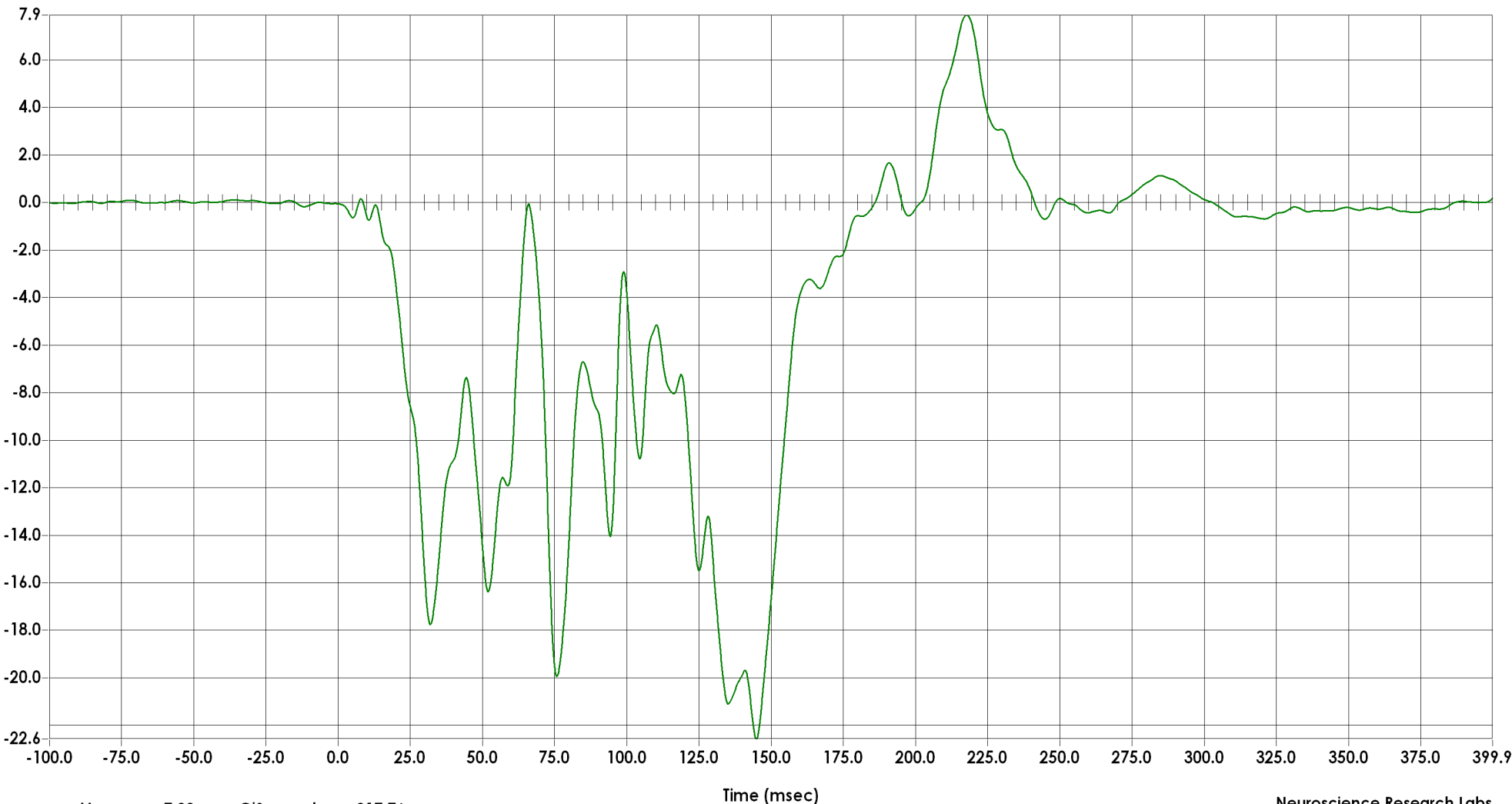
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location ENGN
Sensor Info MSI 64-2000-10-360-XY
Serial Number A011637



G'S Bottom of engine block XG



Max 7.88 G's at 217.76 msec
Min -22.57 G's at 144.88 msec

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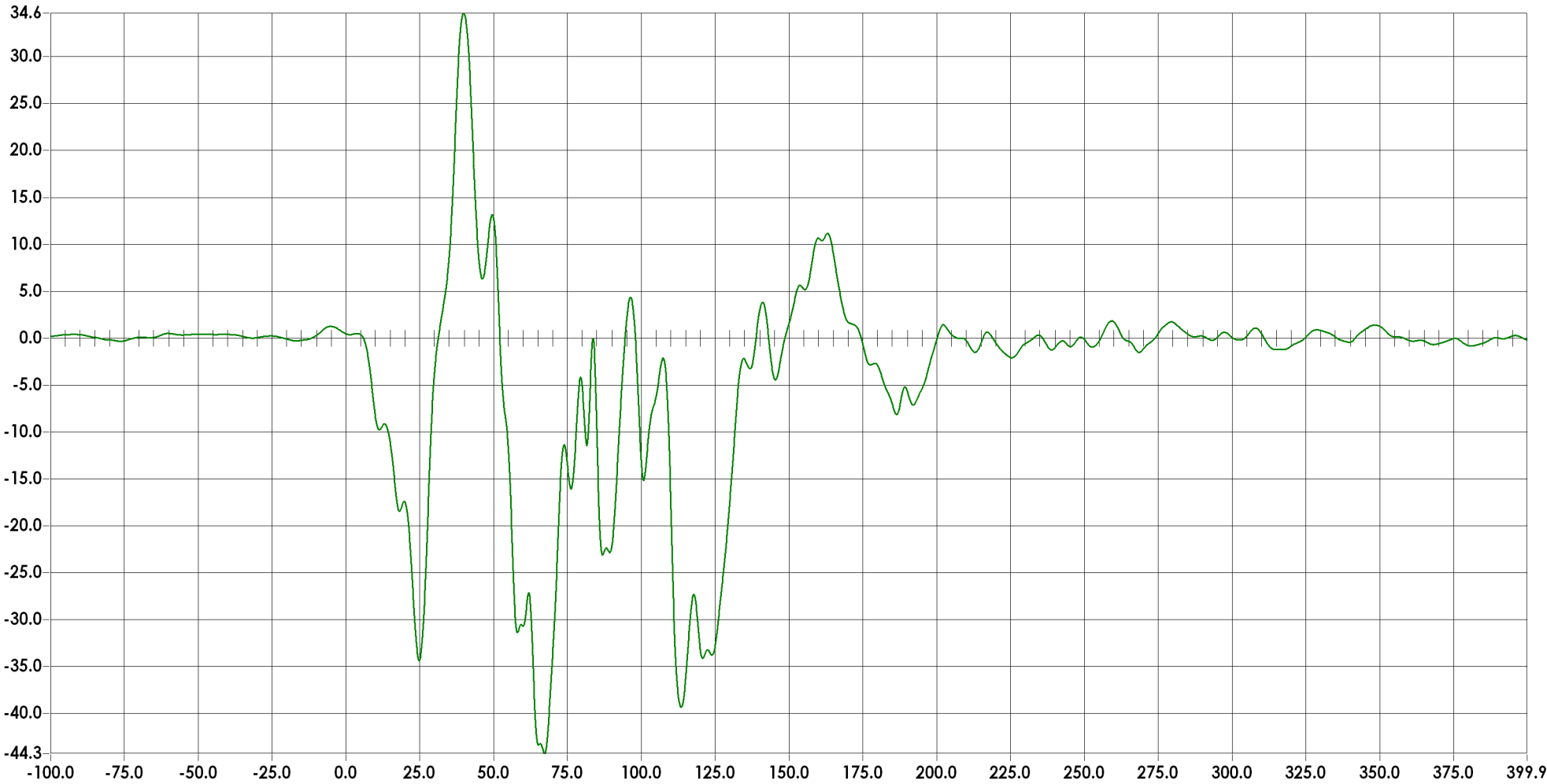
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Right front disc brake caliper XG



Max 34.64 G'S at 39.84 msec
Min -44.29 G'S at 67.28 msec

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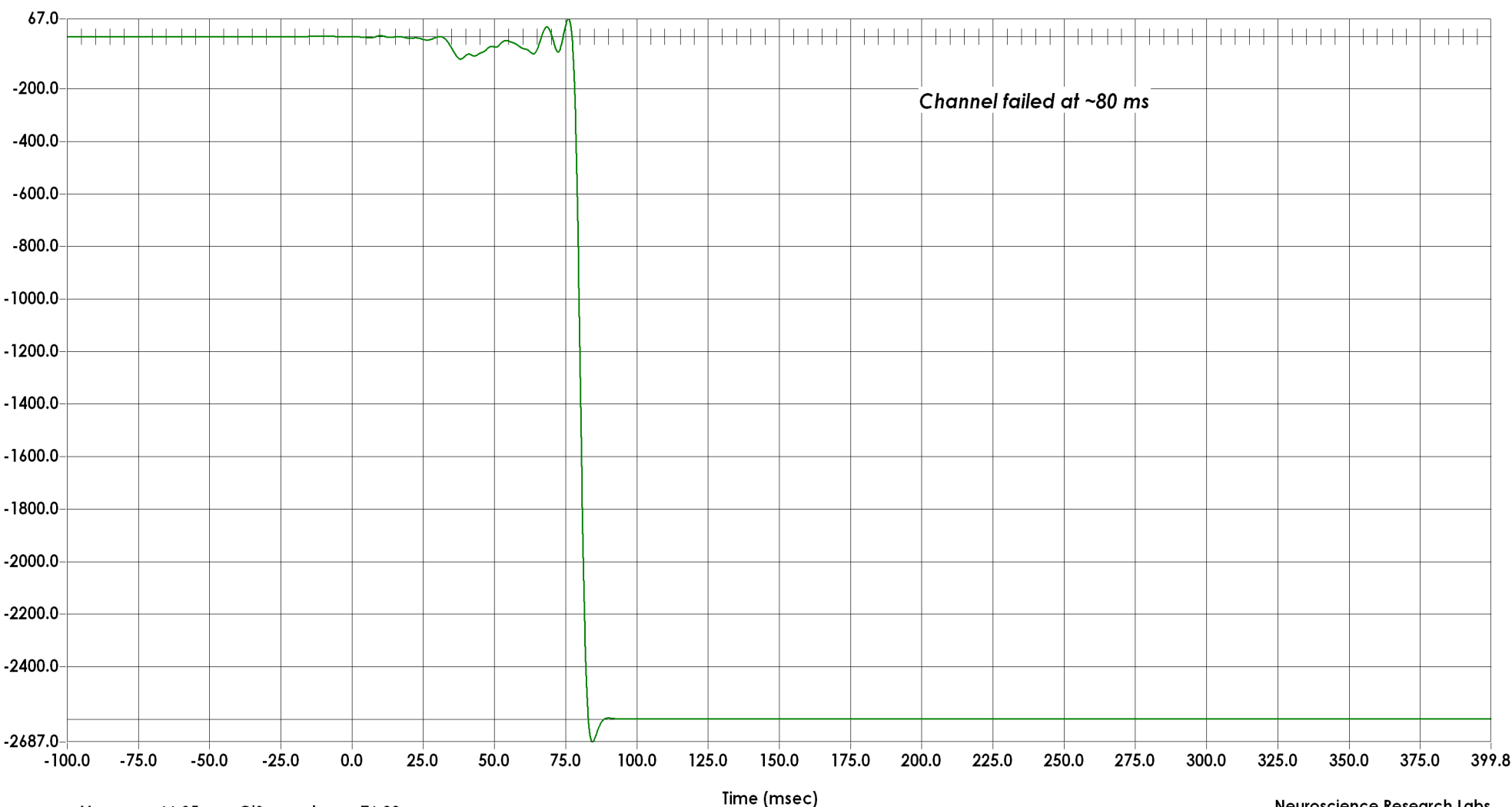
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
 ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Left front disc brake caliper XG



Max 66.95 G'S at 76.00 msec
Min -2687.04 G'S at 84.40 msec

SOI001 Plot 164

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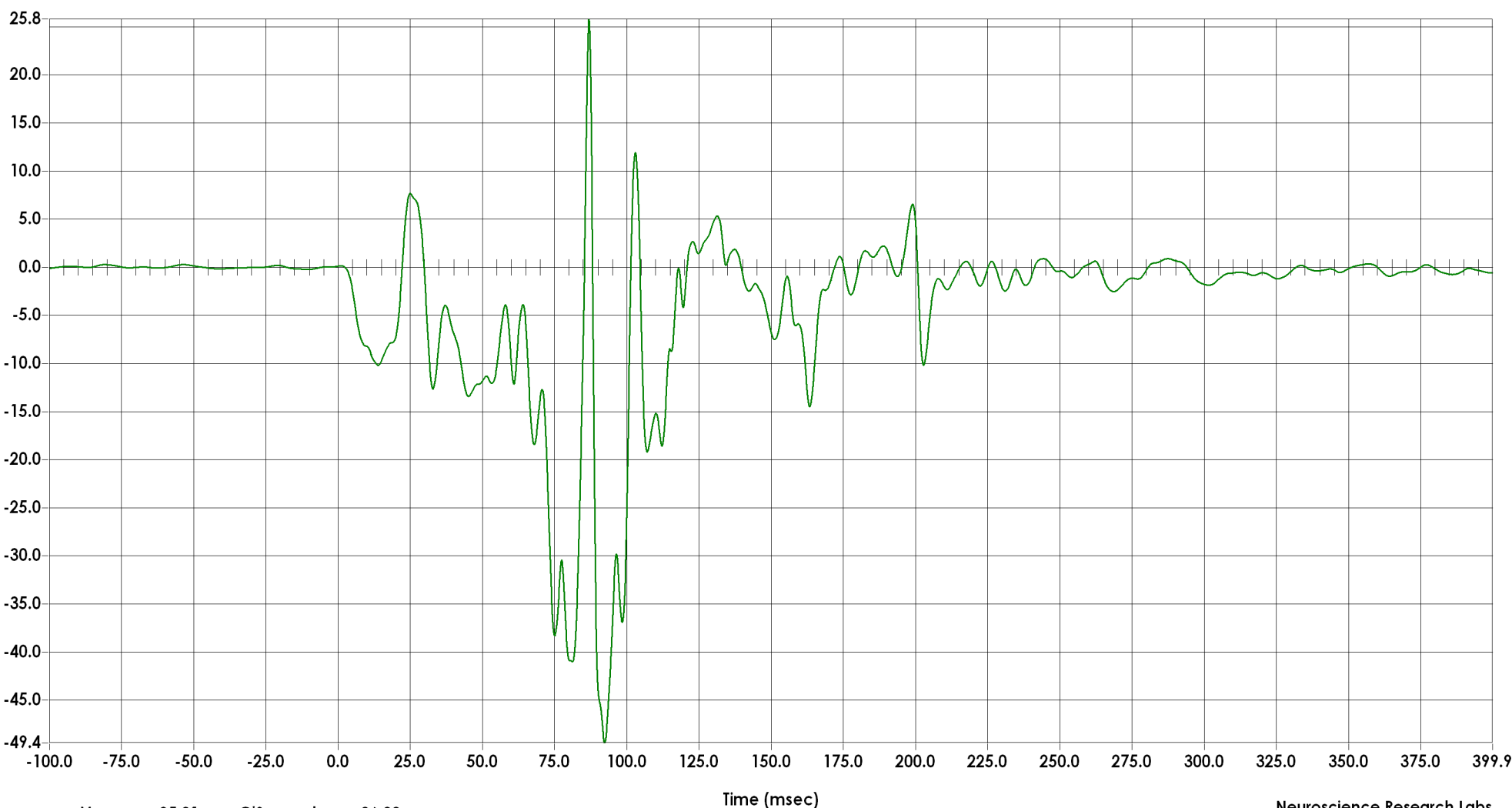
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location DASH
Sensor Info
Serial Number 98B98A26-D05



G'S Dashpanel linear acceleration I; XG



Max 25.81 G'S at 86.88 msec
Min -49.45 G'S at 92.32 msec

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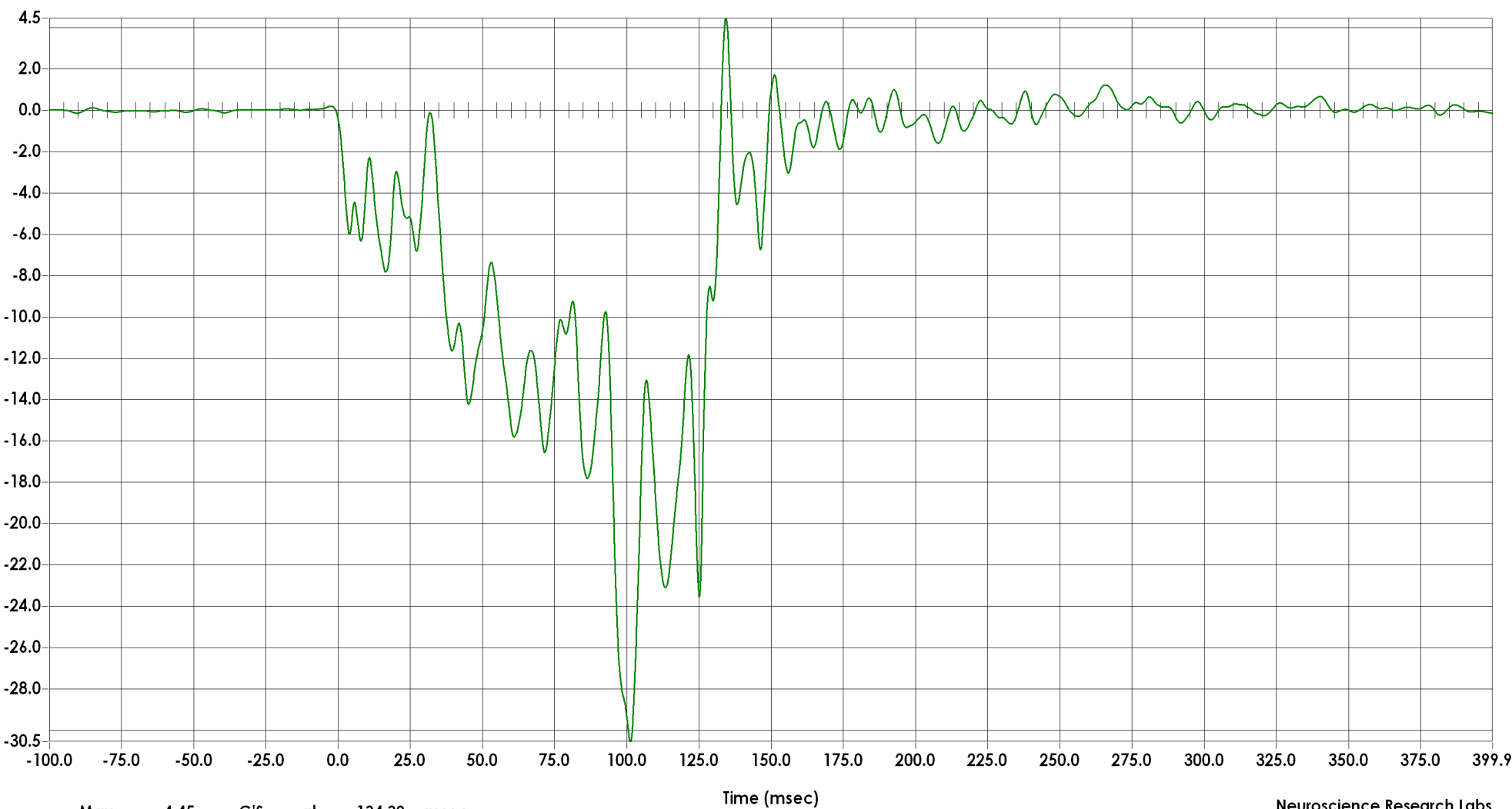
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
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 4.45 G's at 134.32 msec
Min -30.55 G's at 101.28 msec

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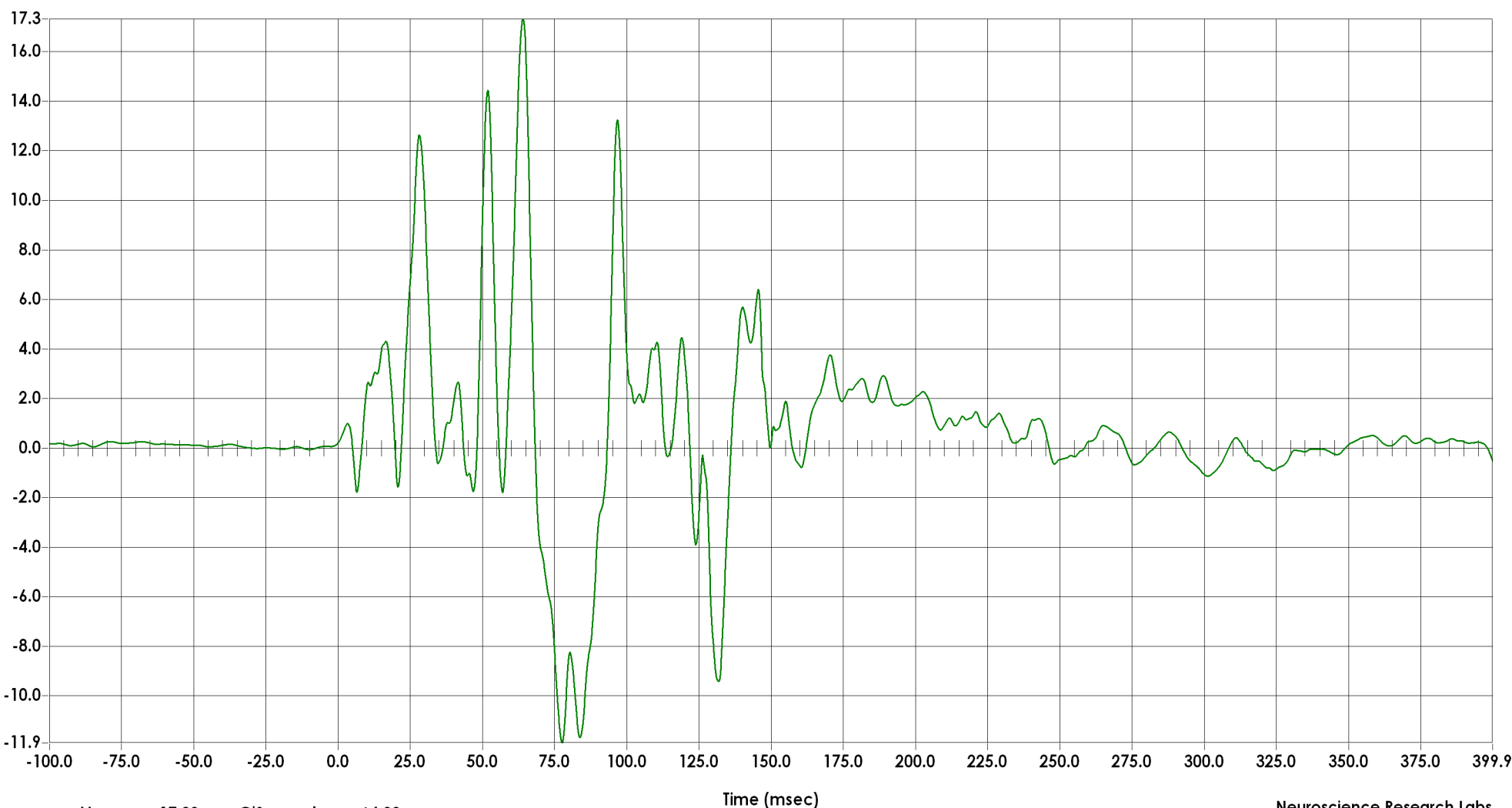
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Vehicle center of gravity YG



Max 17.32 G's at 64.00 msec
Min -11.90 G's at 77.60 msec

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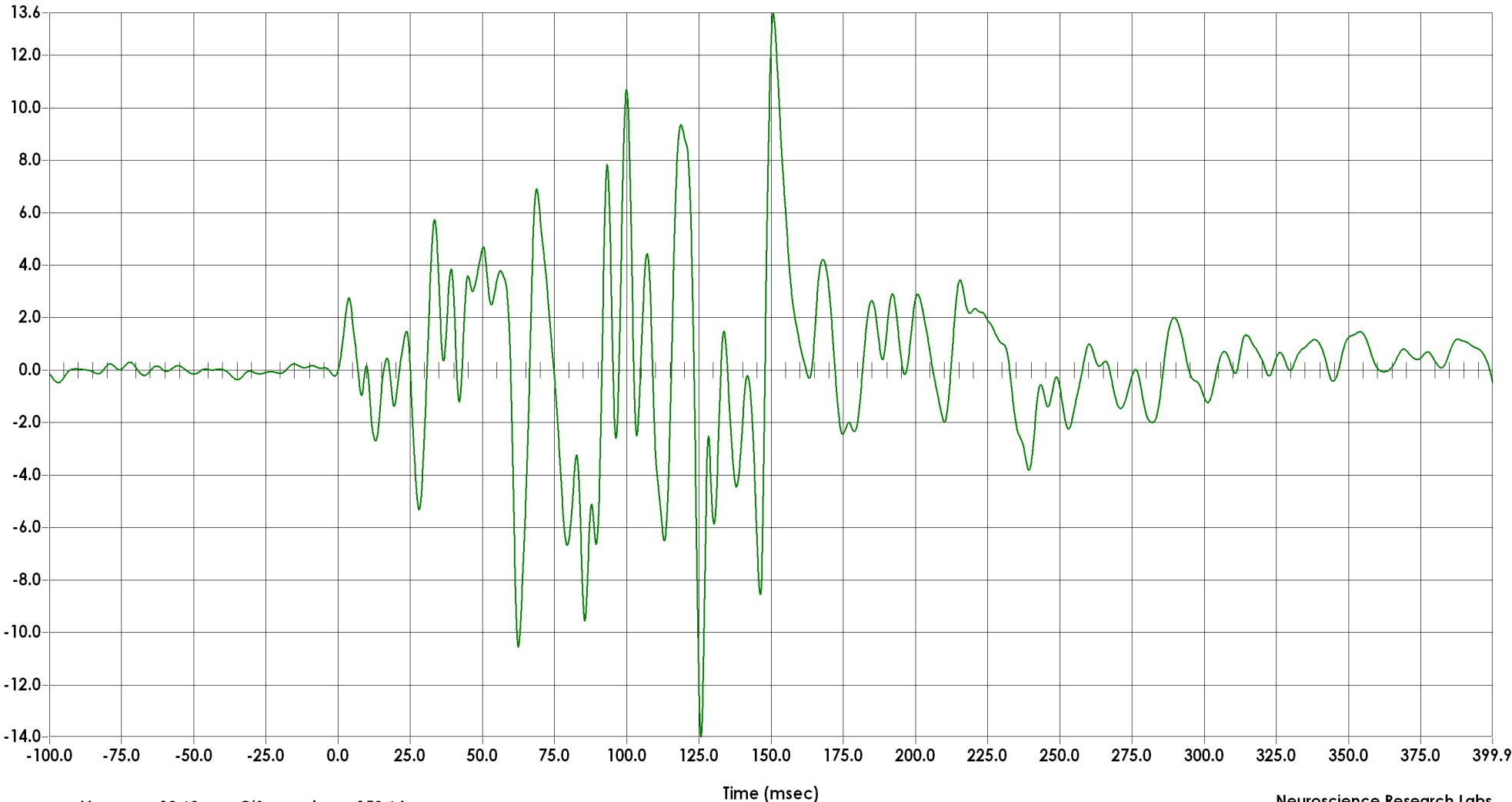
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
 ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
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 13.62 G'S at 150.64 msec
Min -13.98 G'S at 125.68 msec

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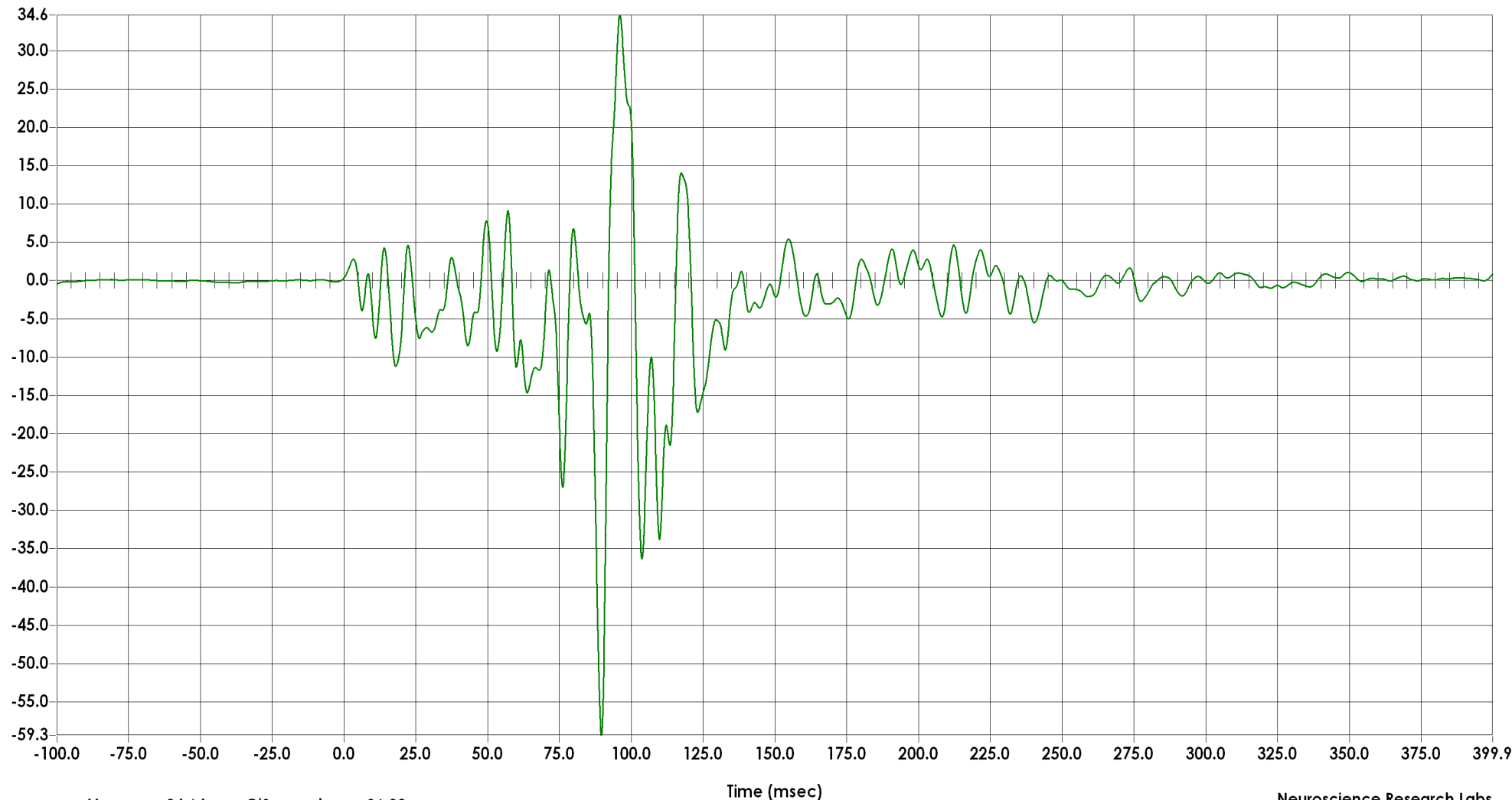
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Accelerator pedal XG



Max 34.64 G'S at 96.00 msec
Min -59.35 G'S at 89.60 msec

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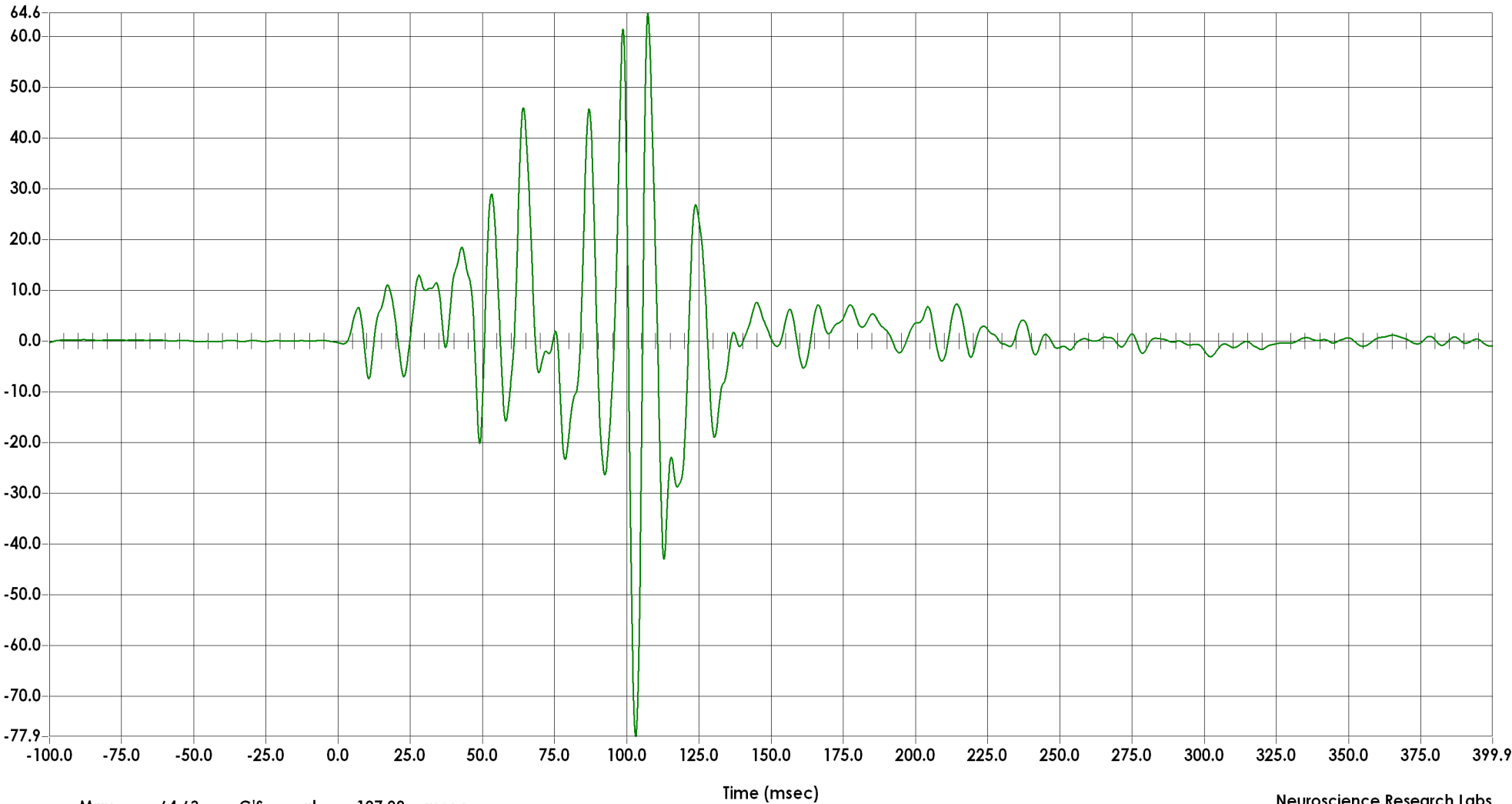
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Accelerator pedal YG



Max 64.63 G'S at 107.28 msec
Min -77.95 G'S at 103.12 msec

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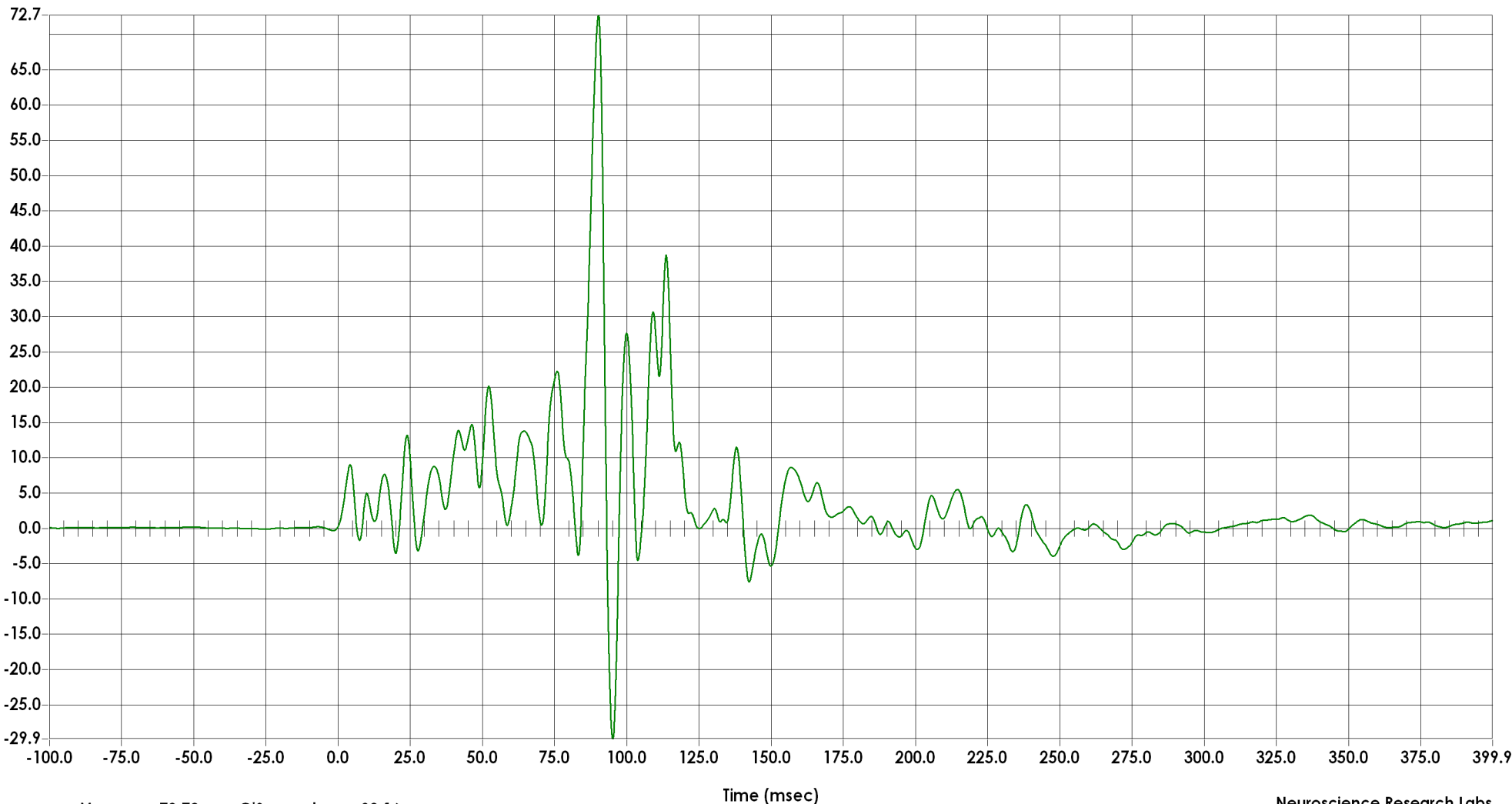
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Accelerator pedal ZG



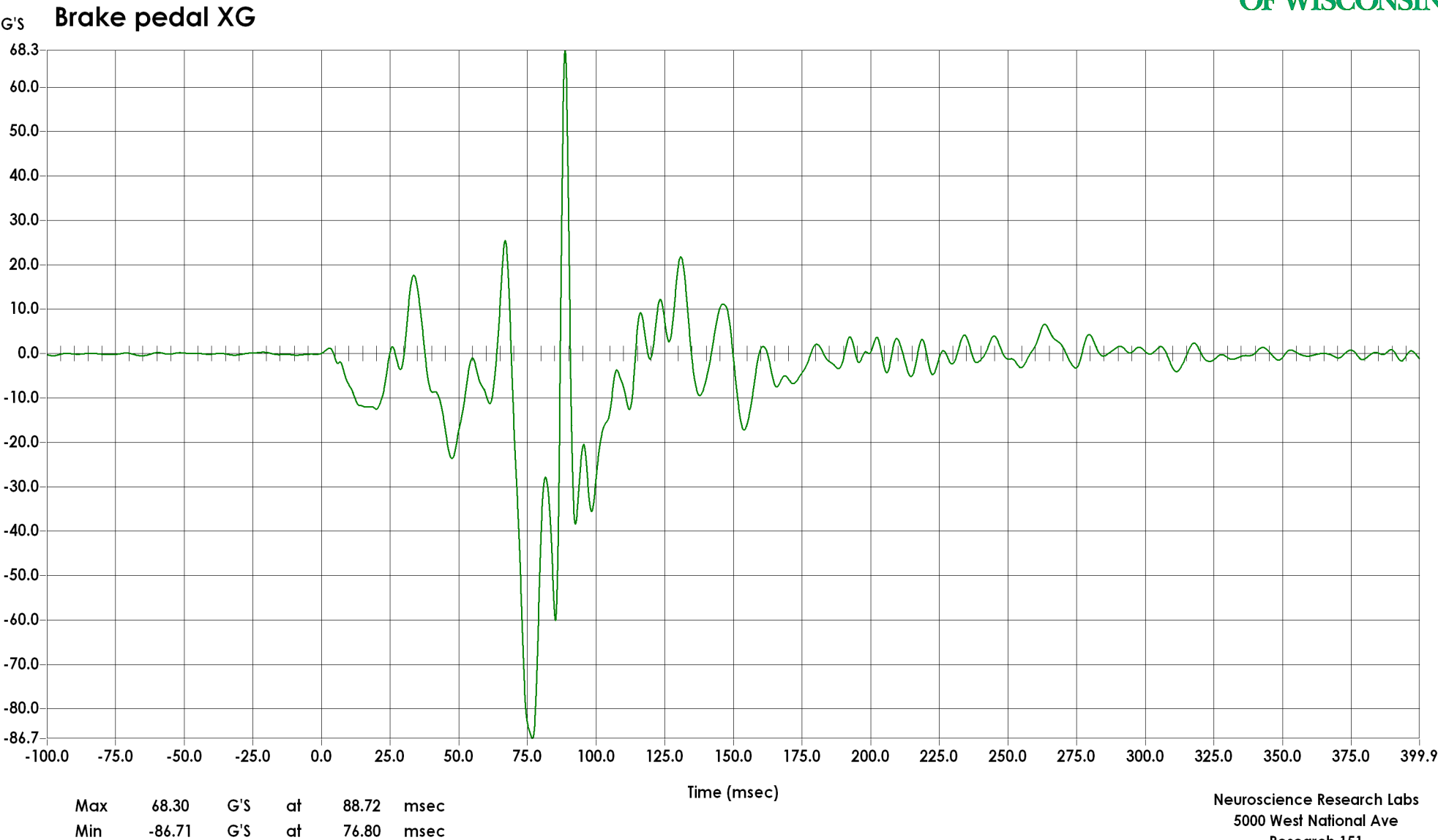
Max 72.73 G'S at 90.16 msec
Min -29.85 G'S at 95.12 msec

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Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



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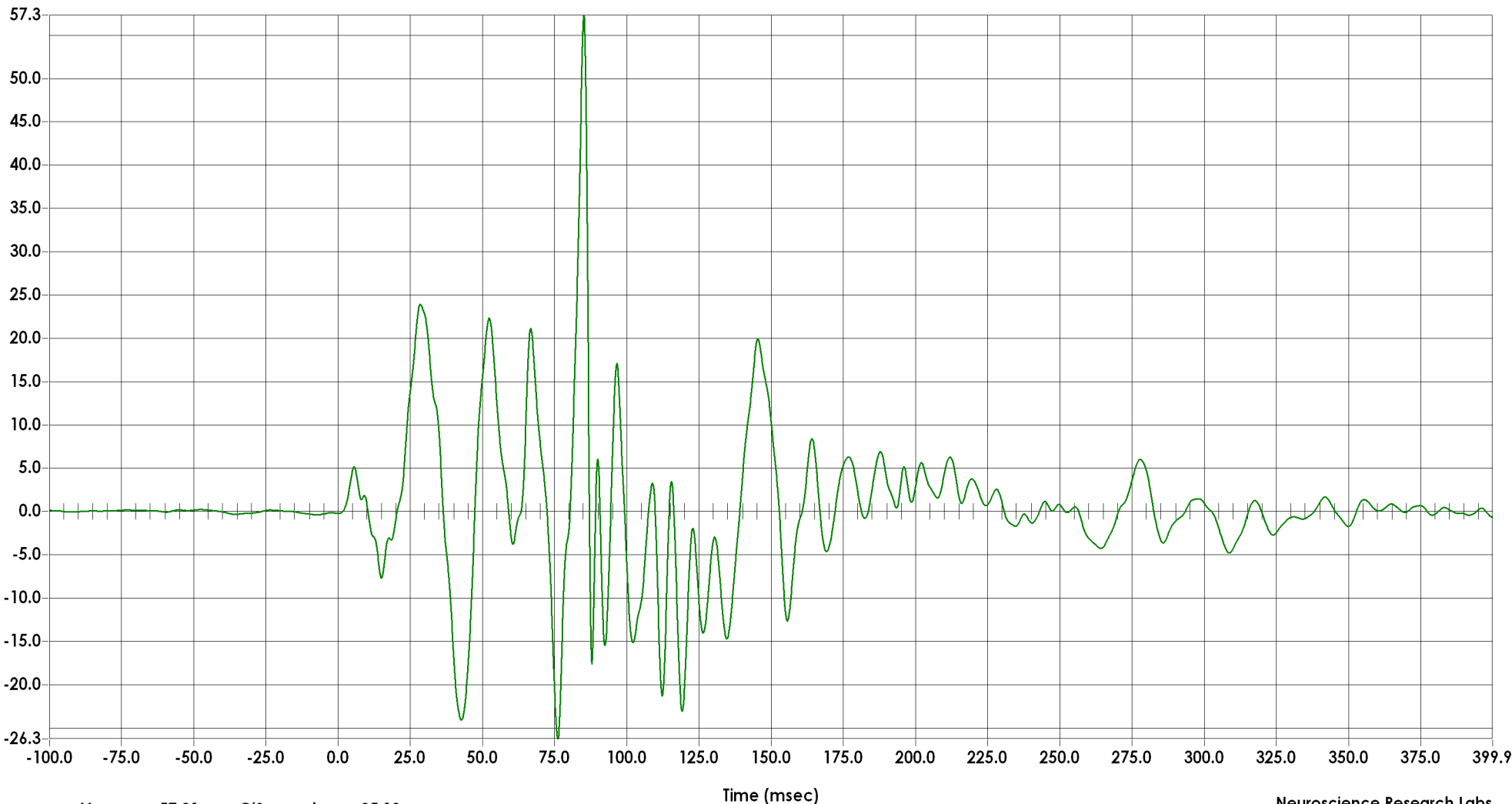
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Brake pedal YG



Max 57.31 G'S at 85.12 msec
Min -26.27 G'S at 76.16 msec

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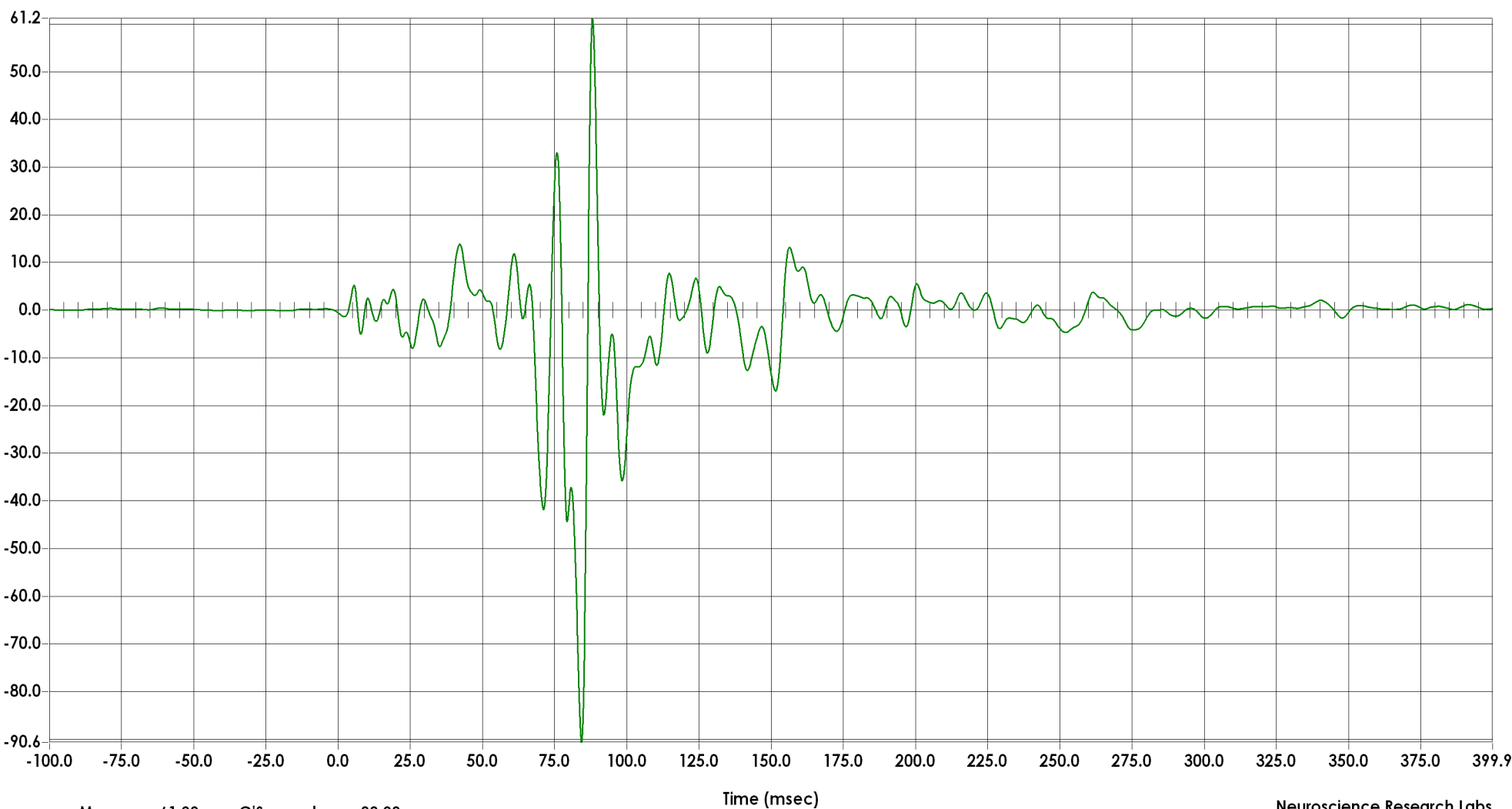
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Brake pedal ZG



Max 61.22 G'S at 88.08 msec
Min -90.65 G'S at 84.32 msec

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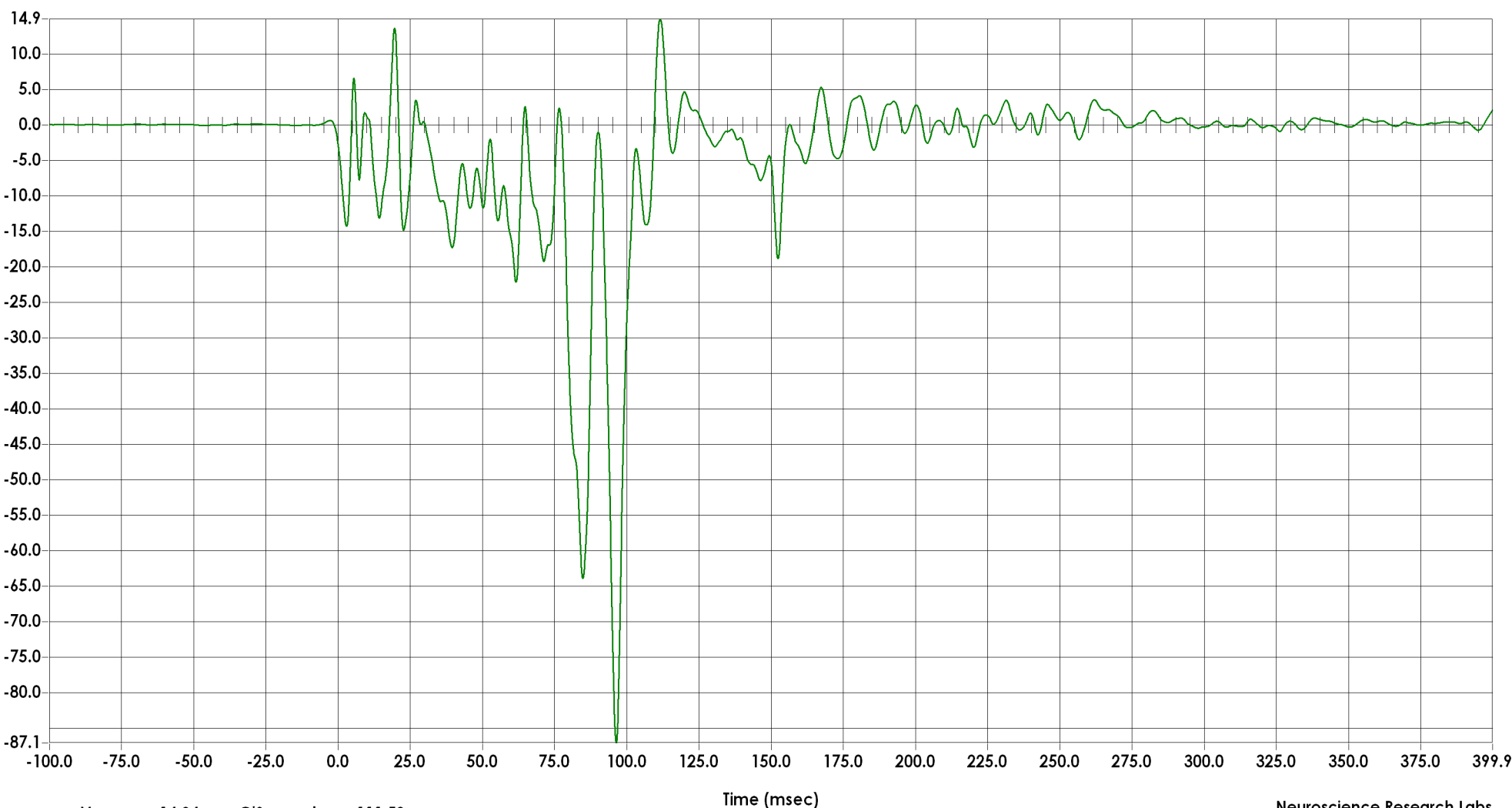
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Foot rest XG



Max 14.94 G'S at 111.52 msec
Min -87.06 G'S at 96.32 msec

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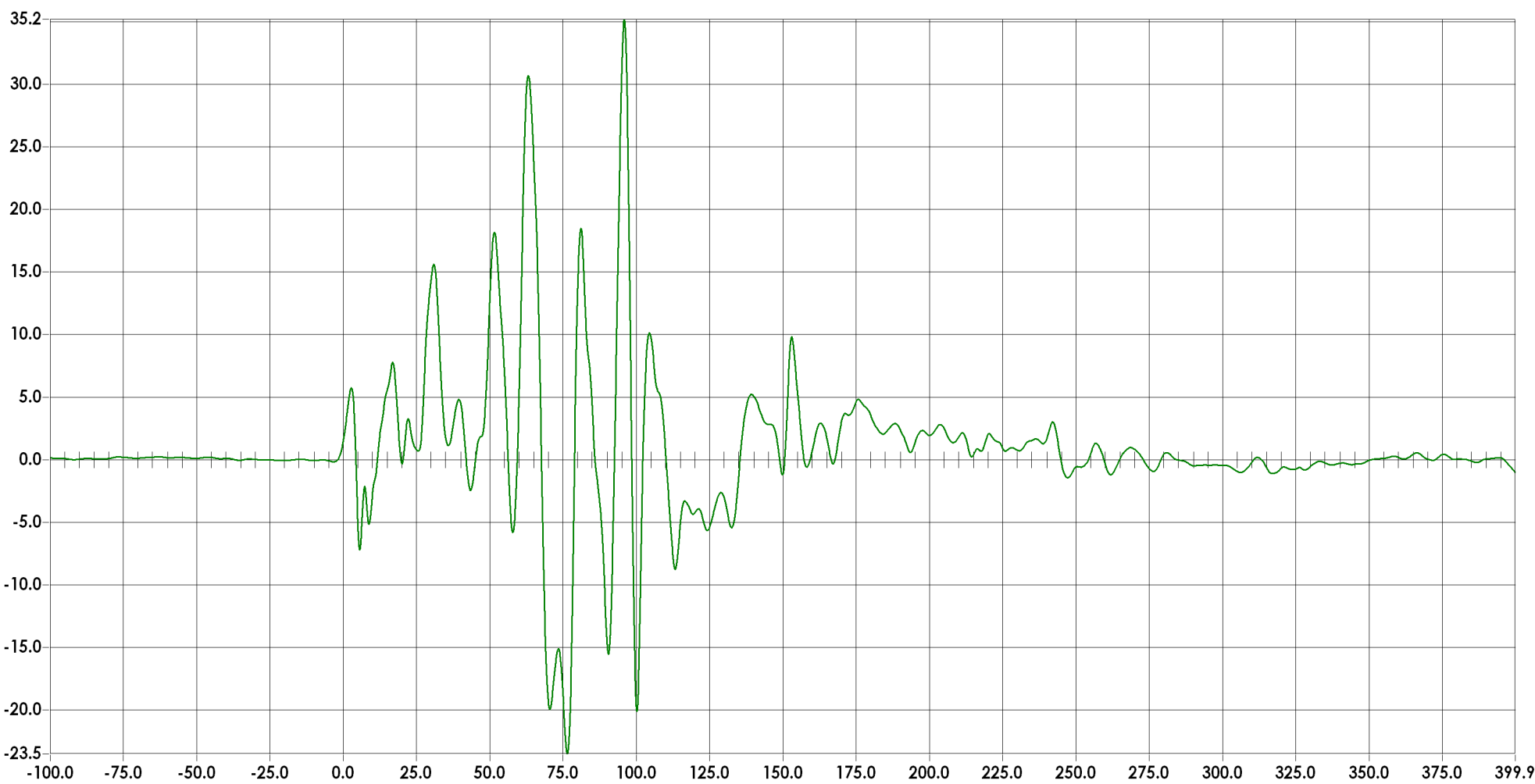
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Foot rest YG



Max 35.19 G'S at 95.92 msec
Min -23.51 G'S at 76.48 msec

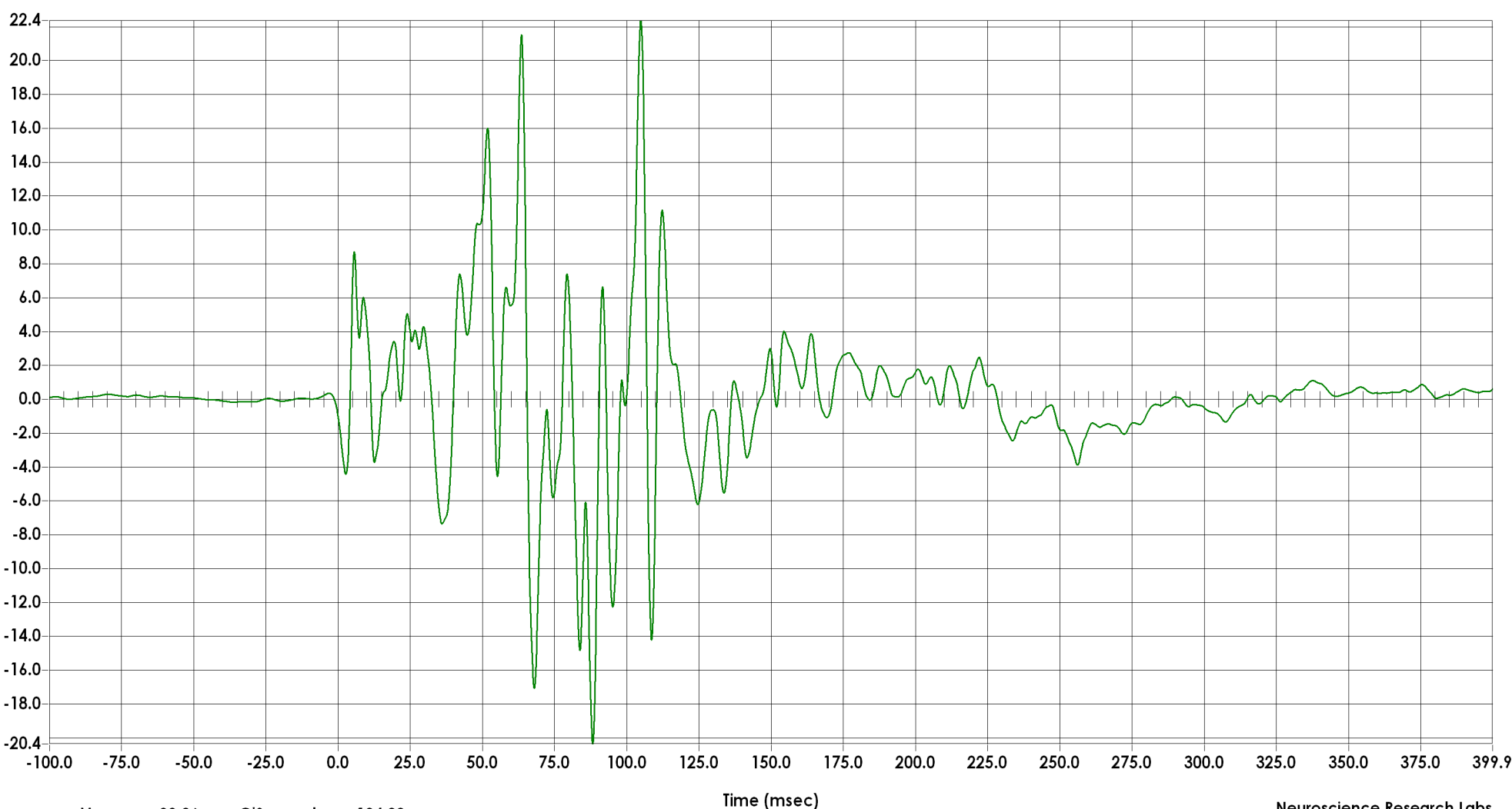
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

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



G'S Foot rest ZG



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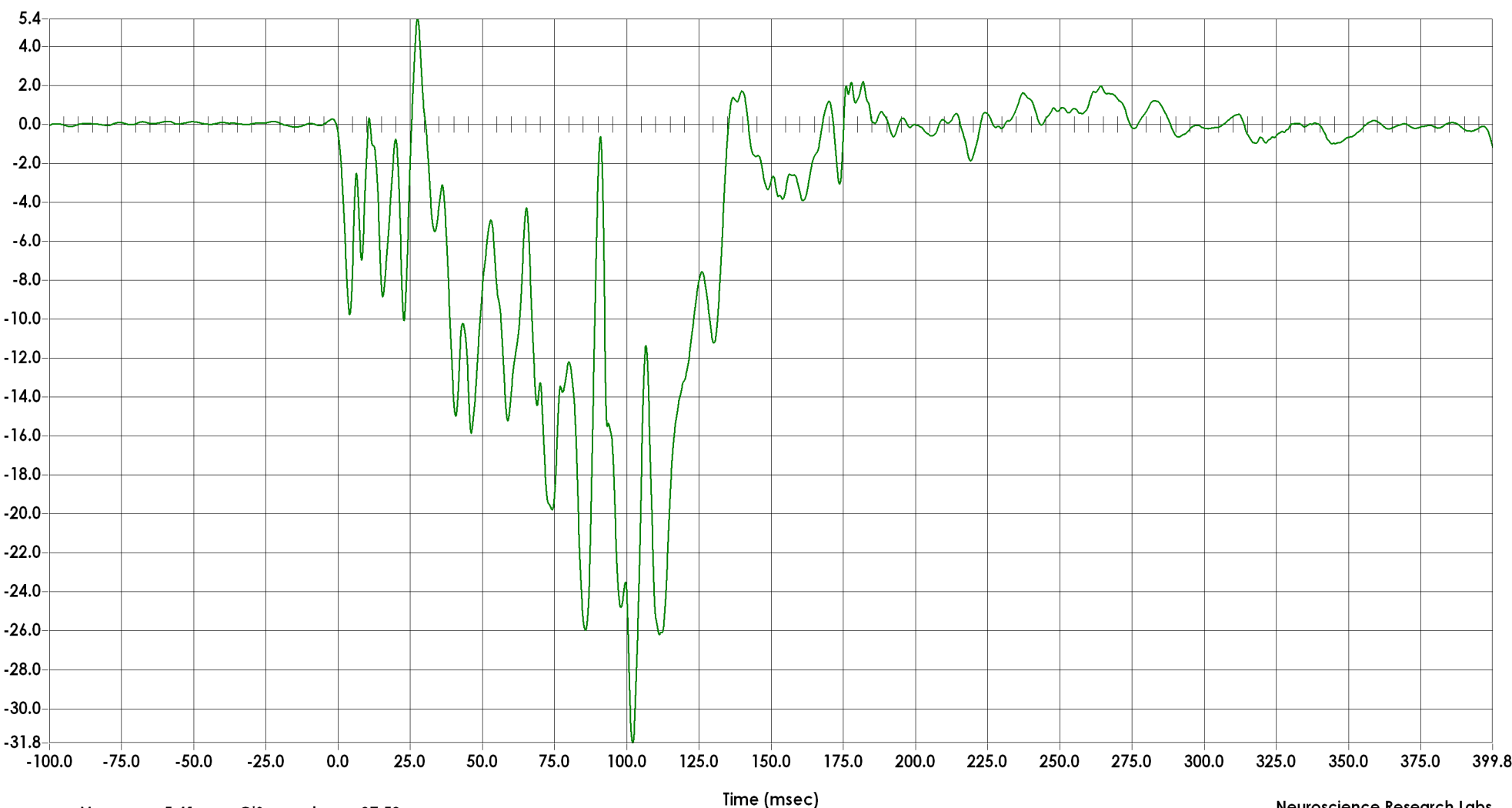
Test ID SOI001
Date 01-21-2010
Description small overlap into pole test; 2009 Honda Civic w/
ACE structure

Filter CFC60
Sampling Rate (Hz) 12500
Number of Points 6250
Pretrigger Points 1250

Sensor Location SENATT
Sensor Info MANUF_MODEL
Serial Number A011649



G'S Driver side mid seat track XG



Max 5.41 G'S at 27.52 msec
Min -31.76 G'S at 102.08 msec

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