

REPORT NUMBER: SPNCAP-MCW-14-004

**NEW CAR ASSESSMENT PROGRAM (SPNCAP)
SIDE IMPACT POLE TEST**

**CHRYSLER GROUP, LLC
2014 JEEP COMPASS 5-DOOR MPV
NHTSA NUMBER: M20140305**

**PREPARED BY:
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TEST DATE: 21 NOVEMBER 2013

REPORT DATE: 03 FEBRUARY 2014

FINAL REPORT

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Test Vehicle: 2014 Jeep Compass 5-Door MPV
Test Program: SPNCAP

NHTSA Number: M20140305
Test Date: November 21, 2013

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Date: 3/19/14

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Reviewed by: _____

Date: March 18, 2014

FINAL REPORT ACCEPTANCE BY OCWS:

Division Chief, New Car Assessment Program
NHTSA, Office of Crashworthiness Standards

Date: _____

COTR, New Car Assessment Program
NHTSA, Office of Crashworthiness Standards

Date: _____

Technical Report Documentation Page

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16. Abstract A 32.20 km/h (20 mph), 75° oblique Side NCAP Test was conducted on the subject 2014 Jeep Compass 5-Door MPV in accordance with the specifications of the Office of Crashworthiness Standards Side NCAP Pole Laboratory Test Procedure for the generation of consumer information on vehicle side pole crash protection. The test was conducted at the Medical College of Wisconsin (MCW) in Milwaukee, Wisconsin on 21 November 2013. The impact velocity was 31.93 km/h, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 20 °C. The test vehicle's post-test maximum static crush was 460 mm at level 3. The test vehicle's occupant performance is as follows: <table border="1"> <thead> <tr> <th></th> <th>Units</th> <th>Driver ATD (SID-IIs) Threshold</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC₃₆)</td> <td>N/a</td> <td>1000</td> <td>303</td> </tr> <tr> <td>Resultant Lower Spine Acceleration</td> <td>G's</td> <td>82</td> <td>50</td> </tr> <tr> <td>Total Pelvic Force (Acetabular & Pelvic)</td> <td>NWT</td> <td>5525</td> <td>3296</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td>mm</td> <td>38</td> <td>32</td> </tr> <tr> <td>Maximum Abdomen Rib Deflection</td> <td>mm</td> <td>45</td> <td>32</td> </tr> </tbody> </table> The two doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during the side impact event.							Units	Driver ATD (SID-IIs) Threshold	Result	Head Injury Criteria (HIC ₃₆)	N/a	1000	303	Resultant Lower Spine Acceleration	G's	82	50	Total Pelvic Force (Acetabular & Pelvic)	NWT	5525	3296	Maximum Thoracic Rib Deflection	mm	38	32	Maximum Abdomen Rib Deflection	mm	45	32
	Units	Driver ATD (SID-IIs) Threshold	Result																										
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Maximum Abdomen Rib Deflection	mm	45	32																										
17. Key Words New Car Assessment Program (NCAP) Side impact Pole Part 572V SID-IIs			18. Distribution Statement Copies of this report are available from: National Highway Traffic Safety Administration Technical Information Services Division, NPO-411 1200 New Jersey Ave, SE Washington, D.C. 20590 e-mail: tis@nhtsa.dot.gov FAX: 202-493-2833																										
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Test Vehicle: 2014 Jeep Compass 5-Door MPV
Test Program: SPNCAP

NHTSA Number: M20140305
Test Date: November 21, 2013

SECTION 1

TEST PURPOSE AND PROCEDURE

This side impact test is part of the MY 2014 New Car Assessment Program Side Impact Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under Contract No. DTNH22-09-D-00123. The purpose of this test is to generate comparative side impact performance in a 2014 Jeep Compass 5-Door MPV. The side impact test was conducted in accordance with the Office of Crashworthiness Standard's Side NCAP Pole Laboratory Test Procedure, dated September 2012.

SECTION 2

SUMMARY OF TEST RESULTS

A rigid pole side impact test was conducted on a 2014 Jeep Compass 5-Door MPV. The subject vehicle was towed into the rigid pole at an angle of 75° and a velocity of 31.93 km/h. The test was conducted at the Medical College of Wisconsin, in Milwaukee, Wisconsin, on 21 November 2013. Pre-test and post-test photographs of the test vehicle and side impact dummy (SID-IIs) are included in APPENDIX A of this report.

One (1) Part 572V (SID-IIs) dummy was placed in the driver designated seating position according to instructions specified in the OCWS Side NCAP Pole Laboratory Test Procedure, dated September 2012. Camera locations and other pertinent camera information are included in this report.

The Part 572V (SID-IIs) Dummy was instrumented accordingly:

- Primary and Redundant Head CG Triaxial Accelerometers
- Thorax Upper, Middle, and Lower Rib Displacement Potentiometers
- Abdomen Upper and Lower Rib Displacement Potentiometers
- Lower Spine (T₁₂) Triaxial Accelerometers
- Iliac Load Cell
- Acetabulum Load Cell

APPENDIX B contains the vehicle and dummy response data. Dummy configuration and performance verification data can be found in APPENDIX C of this report. APPENDIX D contains the test equipment and instrumentation calibration data.

Injury readings for the SID-IIs dummy were recorded as follows:

OCCUPANT SUMMARY			
Head Injury Criteria (HIC ₃₆)	Driver ATD (SID-IIs)		
	Units	IARV	Result
Head Injury Criteria (HIC ₃₆)	N/a	1000	303
Lower Spine Acceleration	G	82	50
Total Pelvic Force (Sum of Acetabular and Iliac Forces)	N	5525	3296
Maximum Thoracic Rib Deflection	mm	38*	32
Maximum Abdominal Rib Deflection	mm	45*	32

Head Injury Criterion (HIC) is the standardized calculation using resultant head acceleration to assess head injury. Generally, a higher HIC represents an increase in the likelihood of a serious head injury. HIC₃₆ specifies a time 'window' of 36 milliseconds over which the integral is calculated. T1 and T2 represent the time of the lower and upper bounds of the window in which the HIC is calculated.

The resultant lower spine acceleration is the single equivalent of the X, Y, and Z accelerations.

The sum of the pelvic forces is used to assess the likelihood of injury to the pelvis during a side impact crash. Higher pelvic forces correspond to an increase in the likelihood of sustaining a severe pelvis injury.

*Proposed IARV

Supplemental restraint information is given below:

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION		
Restraint Type	Left Front (Driver) Occupant Location 01	
	Mounted	Deployed
Frontal Airbag	Yes	No
Knee Airbag	No	N/a
Side Curtain Airbag	Yes	Yes
Side Torso Airbag	Yes	Yes
Seat Belt Pretensioner	Yes	Yes
Seat Belt Load Limiter	Yes	N/a
Other	No	N/a

These test data and report can be found in detail on the NHTSA website at www.nhtsa.dot.gov.

A brief summary of the crash test can be located at www.safercar.gov

TEST NOTES

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

VEHICLE INFORMATION	
NHTSA No.	M20140305
Model Year	2014
Make	Jeep
Model	Compass
Body Style	MPV
VIN	1C4NJCBA0ED620731
Body Color	Deep Cherry Red
Odometer Reading (km/mi)	2 mi.
Engine Displacement (L)	2.0
Type/No. of Cylinders	DOHC 16-Valve
Engine Placement	Lateral
Transmission Type	Manual
Transmission Speeds	5
Overdrive	Yes
Final Drive	FWD
Roof Rack	Yes
Sunroof/T-Top	No
Running Boards	No
Tilt Steering Wheel	Yes
Power Seats	No
Anti-Lock Brakes (ABS)	Yes

VEHICLE OPTIONS	
Traction Control System (TCS)	Yes
Auto-Leveling System	No
Automatic Door Locks (ADL)	No
Power Window Auto-Reverse	No
Other Optional Features	Yes
Driver Front Airbag	Yes
Driver Curtain Airbag	Yes
Driver Head/Torso Airbag	No
Driver Torso Airbag	Yes
Driver Torso/Pelvis Airbag	No
Driver Pelvis Airbag	No
Driver Knee Airbag	No
Rear Pass. Curtain Airbag	Yes
Rear Pass. Head/Torso Airbag	No
Rear Pass. Torso Airbag	No
Rear Pass. Torso/Pelvis Airbag	No
Rear Pass. Pelvis Airbag	No
Driver Seat Belt Pretensioner	Yes
Rear Pass. Seat Belt Pretensioner	No
Driver Load Limiter	Yes
Rear Pass. Load Limiter	No
Other Safety Restraint	Yes

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

No

DATA FROM CERTIFICATION LABEL			
Manufactured By	Chrysler Group, LLC	GVWR (kg)	2012
Date of Manufacture	October 2013	GAWR Front(kg)	1080
Vehicle Type	MPV	GAWR Rear (kg)	1044

VEHICLE SEATING AND WEIGHT CAPACITY DATA				
	Front	Rear	Third	Total
Designated Seating Capacity (DSC)	3	3	0	5
Capacity Weight (VCW) kg				419.6
DSC X 68.04 kg				340.2
Rated Cargo Weight (RCLW)				79.4

(A)

(B)

(A-B)

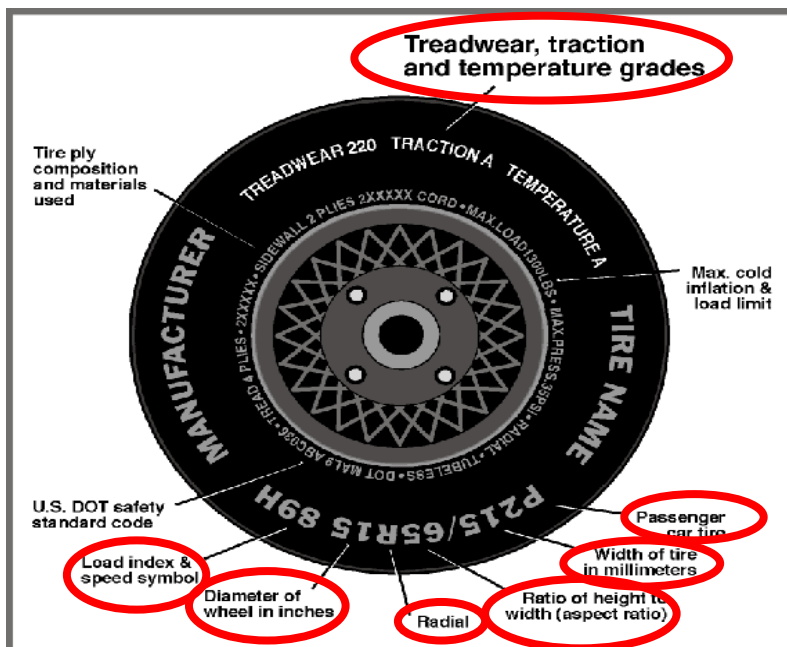
Test Vehicle: 2014 Jeep Compass 5-Door MPV
 Test Program: SPNCAP

NHTSA Number: M20140305
 Test Date: November 21, 2013

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

VEHICLE SEAT TYPE							
Seating Location	Type of Seat Pan				Type of Seat Back		
	Bucket	Bench	Split Bench	Contoured	Fixed	Adjustable	
						W/ Lever	W/ Knob
Front Seat	X					X	
Rear or Second Row Seat			X	X	X	N/a	
Third Row Seat							

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



VEHICLE TIRE INFORMATION		
Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	300	300
Cold Pressure (kPa)	241.3	241.3
Recommended Tire Size	P205/70R16	P205/70R16
Tire Size on Vehicle	P205/70R16	P205/70R16
Tire Manufacturer	Goodyear	Goodyear
Tire Model	Eagle LS2	Eagle LS2
Treadwear	400	400
Traction	A	A
Temperature Grades	B	B
Tire Plies Sidewall	2	2
Tire Plies Body	4	4
Load Index/Speed Symbol	96T	96T
Tire Material	Steel & Polyester	Steel & Polyester
DOT Safety Code Left	M60W CUER 2413	M60W CUER 2413
DOT Safety Code Right	M60W CUER 2413	M60W CUER 2413

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

TIRE PRESSURES					
	Units	LF	RF	LR	RR
As Delivered	kpa	241.3	241.3	241.3	241.3
Tire Placard	kpa	241.3	241.3	241.3	241.3
Owner's Manual	kpa	241.3	241.3	241.3	241.3
As Tested	kpa	241.3	241.3	241.3	241.3

TEST VEHICLE AXLE WEIGHTS										
	Units	As Delivered (UVW)			As Tested (ATW)			Fully Loaded		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
Left	kg	408.9	302.1		427.9	352.2		422.6	364.2	
Right	kg	415.9	284.9		408.9	338.6		423.5	324.7	
Ratio	%	58.4	41.6		54.8	45.2		55.1	44.9	
Totals	kg	824.8	587.0	1411.8	836.8	690.8	1527.6	846.1	688.9	1535.0

TARGET TEST WEIGHT CALCULATION			
	Units		
Total Delivered Weight (UVW)	kg	1411.8	(A)
Actual Weight of 1 P572 ATDs (SID-IIs) Used	kg	44.1	(B)
Rated Cargo/Luggage Weight (RCLW)	kg	79.4	(C)
Calculated Target Vehicle Test Weight (TVTW)	kg	1535.0	(A + B + C)

Does the measured As Tested Vehicle Weight lie within the required weight range (i.e. Calculated Test Vehicle Target Weight – 4.5 kg to 9 kg)?

Yes

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

TEST VEHICLE ATTITUDES AND CG					
	Units	As Delivered	As Tested	Fully Loaded	Meets Requirement
Driver Door Sill Angle (Front to Rear)*	Deg.	-0.3	-0.2	-0.1	Yes
Front Pass. Door Sill Angle (Front to Rear)*	Deg.	-0.4	-0.2	-0.1	Yes
Front Bumper Angle (Left to Right)	Deg.	0	-0.3	-0.3	Yes
Rear Bumper Angle (Left to Right)	Deg.	-0.4	-0.3	-0.3	Yes
Vehicle CG (Aft of Front Axle)	mm	1096	1192	1183	
Vehicle CG Left (+) / Right (-) from Long. Centerline)	mm	6.38	18.8	22.2	

WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW	
Ballast	Weight (kg)
Spare tire including floor cover, jack, and passenger side glass	28.8

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

SCRL ANGLE RANGE			
	SCRL (°)		
	Max	Min	Mid
Driver Seat**	0.0°	0.0°	0.0°
Front Passenger Seat**	0.0°	0.0°	0.0°
Front Center Seat			
Struck Side Rear Seat	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed
Rear Center Seat			

**Seat pan non-adjustable

SCRL ANGLE RANGE						
Seat	As Tested SCRL Angle (Mid) (°)	As Tested SCR Height (mm)	SCR Height Position	SCR Height (mm)		
				Rearmost	Mid-Fore/Aft	Forward- Most
Driver's Seat	N/a	N/a	Max	N/a	N/a	N/a
	0.0	18	Mid	33	23	13
	N/a	N/a	Min	N/a	N/a	N/a
Front Passenger Seat	N/a	Fixed	Max	N/a	N/a	N/a
	0.0	21	Mid	31	21	10
	N/a	Fixed	Min	N/a	N/a	N/a
Front Center Seat*			Max			
			Mid			
			Min			
Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
	Fixed	Fixed	Mid	Fixed	Fixed	Fixed
	Fixed	Fixed	Min	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
	Fixed	Fixed	Mid	Fixed	Fixed	Fixed
	Fixed	Fixed	Min	Fixed	Fixed	Fixed
Rear Center Seat*			Max			
			Mid			
			Min			

*If applicable

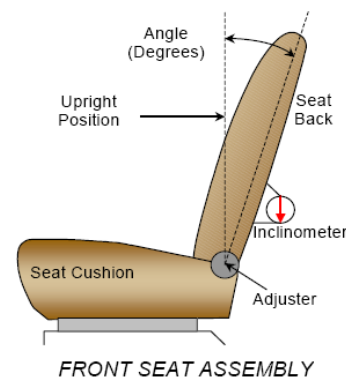
DATA SHEET NO. 2
SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA (CONTINUED)

SEAT FORE/AFT TRAVEL				
Seat	Total Fore/Aft Travel		Test Position from Forward-most Position	
	mm	Detents*	mm	Detents*
Driver Seat	260	39	5	0 (w/ Full Forward = 0)
Front Passenger Seat	260	39	5	0 (w/ Full Forward = 0)
Front Center Seat*				
Struck Side Rear Seat	Fixed	N/a	N/a	N/a
Non-Struck Side Rear Seat	Fixed	N/a	N/a	N/a
Rear Center Seat*				

*If applicable

Seat Back Angle Adjustment

The driver's seat back is positioned such that the dummy's head is level. The front center and front passenger's seat backs are positioned in a similar manner as the driver's seat back. The struck-side rear passenger seat back is positioned in accordance with the information provided by the manufacturer on Form No. 1 for the 5th percentile female dummy in a Side NCAP MDB test. The rear center and non-struck side rear passenger's seat back is set to match the struck-side rear seat back.



SEAT BACK ANGLE ADJUSTMENT				
Seat	Total Seat Back Angle Range		Test Position from Most Upright	
	Degrees	Detents*	Degrees	Detents*
Driver Seat w/ Seated Dummy	60°	41	4.2°***	2
Front Passenger Seat	60°	39	4.0°***	2
Front Center Seat*				
Struck Side Rear Seat	Fixed	N/a	Fixed	N/a
Non-Struck Side Rear Seat	Fixed	N/a	Fixed	N/a
Rear Center Seat*				

*If applicable

***Measure at the head-rest post

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

Seat Belt Anchorage Adjustment

Seat belt anchorages are adjusted in accordance with the information provided by the manufacturer on Form No. 1.

SEAT BELT ANCHORAGE ADJUSTMENT (D-RING)		
	Total No. of Positions	Placement
Driver Seat	4	H

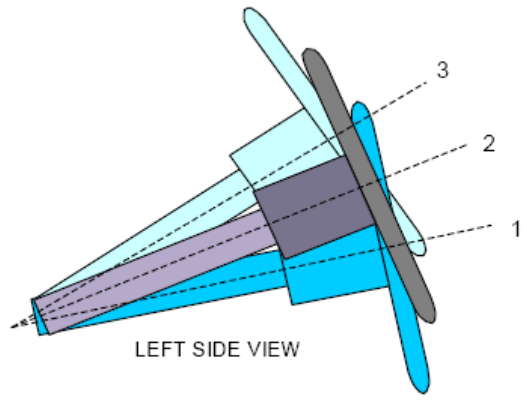
Head Restraint Adjustment

Head restraints are adjusted to the lowest and most full forward in-use position.

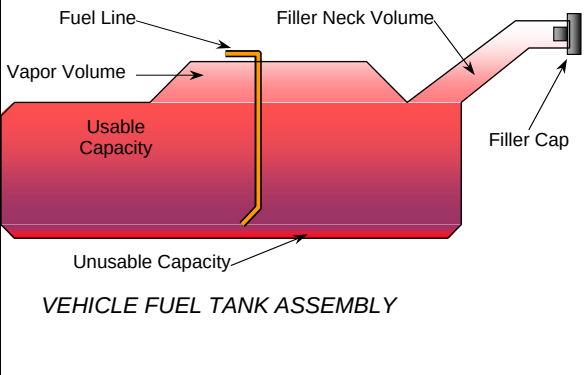
HEAD RESTRAINT ADJUSTMENT		
	Total No. of Positions	Placement
Driver Seat	5	Lowest Position

Steering Column Adjustment

Steering wheel and column adjustments are made so that the steering wheel hub is at the center of its geometric locus it describes when it moves through its full range of motion.

STEERING COLUMN ADJUSTMENT			
	Degrees	Fore/Aft Position (mm)	 LEFT SIDE VIEW STEERING COLUMN ASSEMBLY
Lowermost, Pos. No. 1	62.6°	N/a	
Geometric Center, Pos. No. 2	65.6°	N/a	
Uppermost, Pos. No. 3	68.6°	N/a	
Telescoping Steering Wheel Travel	Non-telescoping	N/a	
Test Position	65.6°	N/a	

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

FUEL TANK CAPACITY DATA			
Description	Units	Value	
Usable Capacity of Standard Equipment Fuel Tank	L	51.5	
Usable Capacity of Optional Equipment Fuel Tank	L	51.1	
Usable Capacity of Standard Tank as Specified in Owner's Manual	L	51.5	
Usable Capacity of Optional Tank as Specified in Owner's Manual	L	51.1	
Amount of Stoddard Added for Test	L	47.9	
% Usable Capacity (92%-94%)	%	47.9	
1/3 of Usable Capacity	17.2		

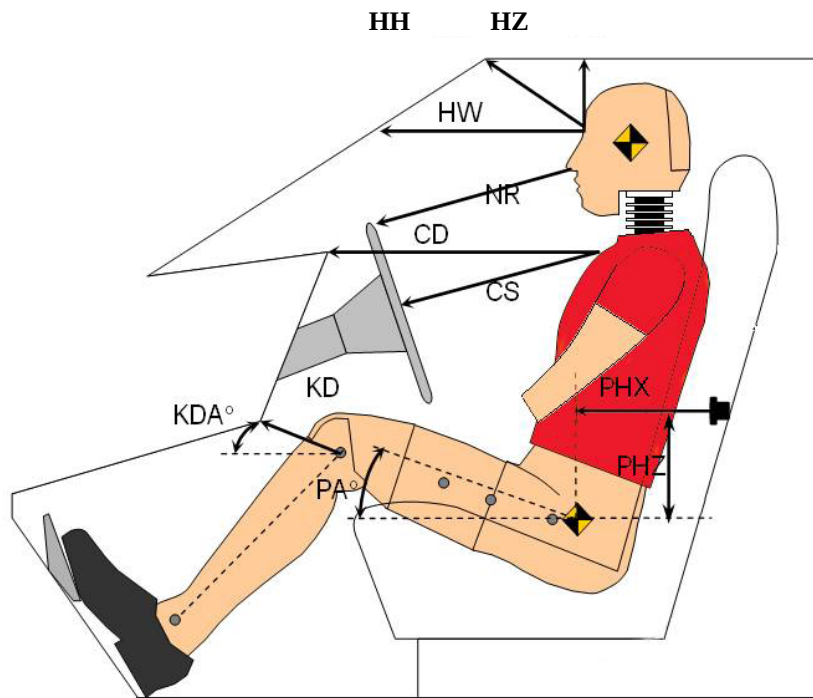
Fuel Pump

The vehicle is equipped with an electronic fuel pump. Key is "ON" position. The fuel pump is on the left side.

Is the Actual Amount of Solvent Used in the test equal to 93% +/- 1% of the Usable Capacity stated in on Form No. 1?

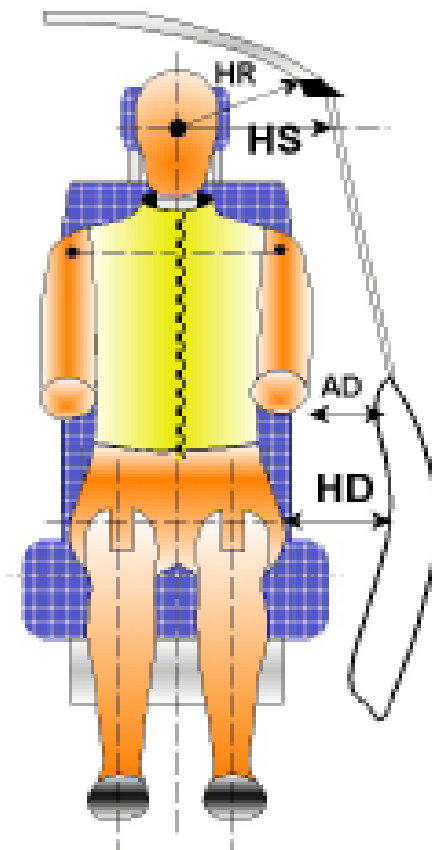
Yes

DATA SHEET NO. 3
DUMMY LONGITUDINAL CLEARANCE DIMENSIONS



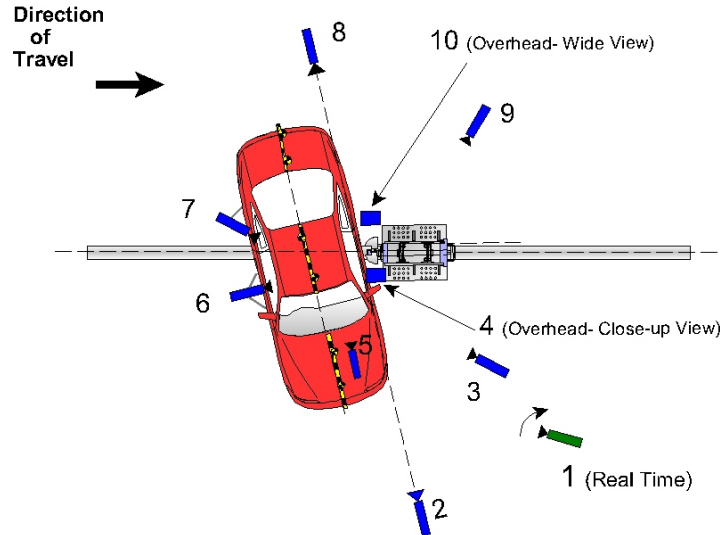
Code	Measurement Description	Driver	
		Length (mm)	Angle (°)
HH	Head to Header	302	
HW	Head to Windshield	696	
HZ	Head to Roof Liner	228	
NR	Nose to Rim	291	
CD	Chest to Dashboard	444	
CS	Chest to Steering Wheel	191	
KDL	Left Knee to Dash	134	
KDAL	Left Knee to Dash		27.1°
KDR	Right Knee to Dash	136	
KDAR	Right Knee to Dash		29.3°
PAX	Pelvic Tilt Angle (X-Axis)		0.0°
PAY	Pelvic Tilt Angle (Y-Axis)		18.4°
PHX	H-Point to Striker (X-Axis)	307.3	
PHZ	H-Point to Striker (Z-Axis)	117.4	

DATA SHEET NO. 4
DUMMY LATERAL CLEARANCE DIMENSIONS



DUMMY LATERAL CLEARANCE DIMENSIONS		
Code	Measurement Description	Length (mm)
HR	Head to Side Header	259
HS	Head to Side Window	399
AD	Arm to Door	212
HD	Hip Point to Door	149

DATA SHEET NO. 5
CAMERA AND INSTRUMENTATION DATA
Camera Locations



	View	Coordinates †			Lens Length mm	Operating Frame Rate fps
		X	Y	Z		
		mm	mm	mm		
1	Rear Time (24 – 30 fps) Pan View of Impact				N/a	30
2	Front ground Level – Impact View	7286	-828	-1302	50	1000
3	Impact Side 45° - Forward View of Pole	5727	-3601	-1436	25	1000
4	Overhead Close – Up View of Impact	2217	19	-5976	25	1000
5	Onboard – Dummy Front View				12.5	1000
6	Onboard – Dummy Side View				12.5	1000
7	Onboard – Dummy Rear Oblique View				12.5	1000
8	Rear Ground Level – Impact View	-6614	-884	-1465	35	1000
9	Impact Side 45° - Rearward Pole View	-4735	-3382	-1287	35	1000
10	Overhead Wide – View Impact	2132	62	-5952	12.5	1000
11	Real – Time (24 – 30 fps) Dummy Front View				N/a	30

Origin

X

Y

Z

Impact Point

Impact Point

Ground

Orientation

X

Y

Z

+(X) Forward

+(Y) Right

+(Z) Down

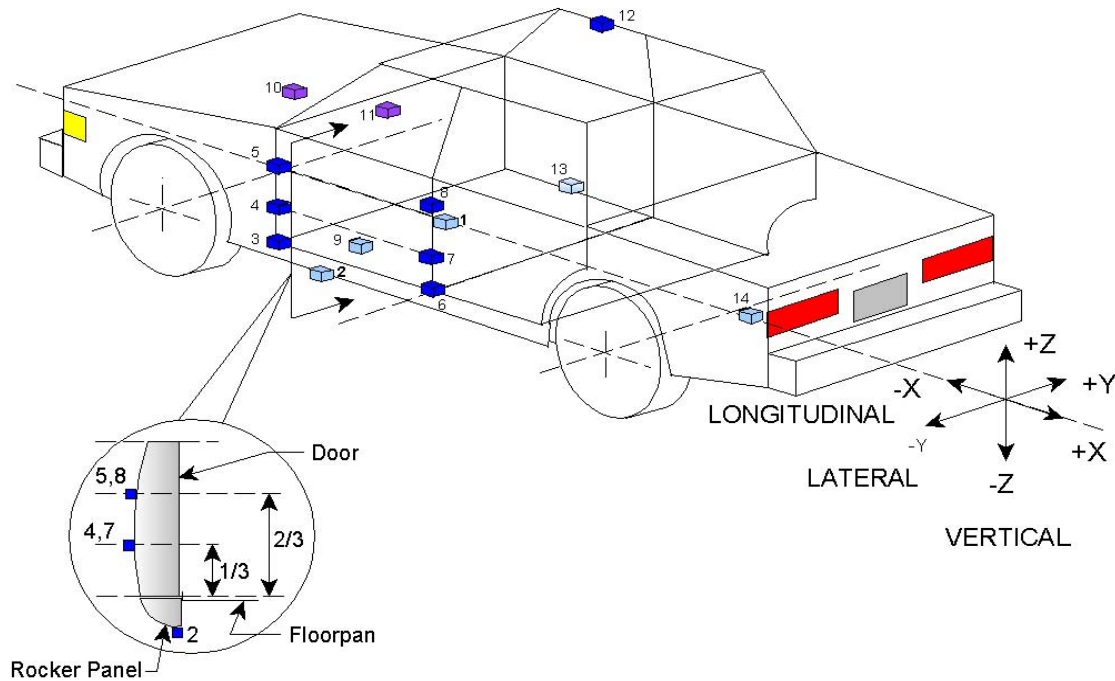
**All measurements accurate to +/- 6 mm*

Note: Vehicle was at a 15° angle to the rigid pole

DATA SHEET NO. 5
CAMERA AND INSTRUMENTATION DATA (CONTINUED)

INSTRUMENTATION	
	Number of channels
Driver Dummy	16
Vehicle Structure	18
Pole Load Cells	8
Total No. of Data Channels	42

DATA SHEET NO. 6 **VEHICLE ACCELEROMETER LOCATIONS**



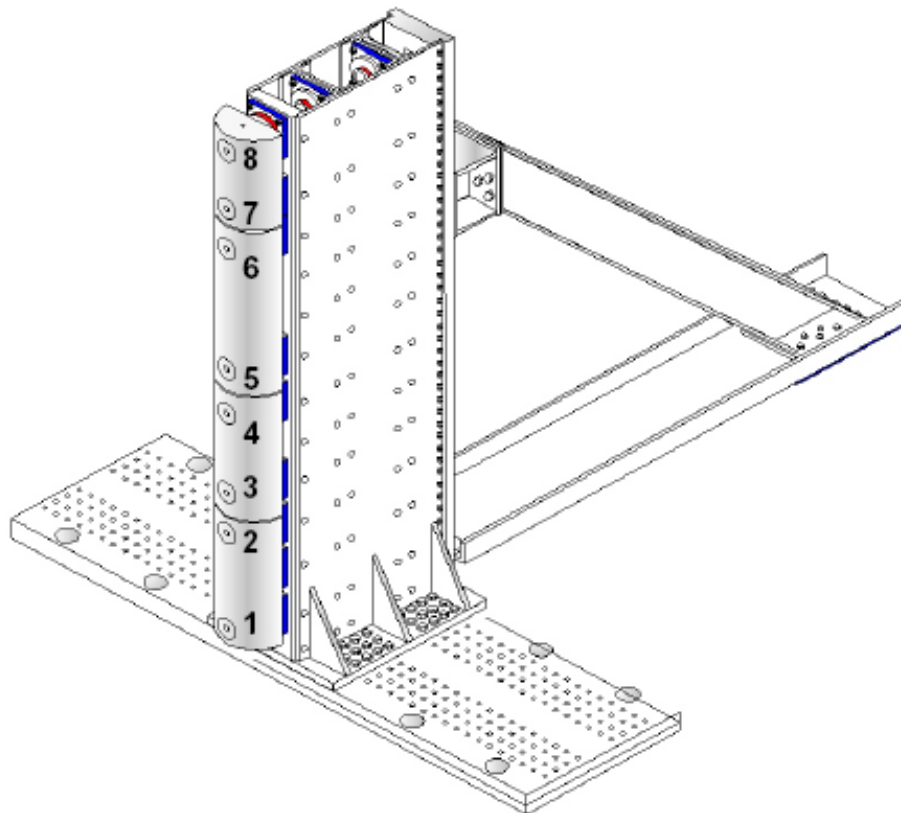
ACCELEROMETER/SENSOR LOCATION				
Loc. no.	ID	Coordinates (mm)		
		X	Y	Z
1	Vehicle CG	2638.5	76.5	178.4
2	Left Floor Sill	2757.5	-715.4	418.6
3	A-Pillar Sill	2998.1	-716.3	423.0
4	A-Pillar Low	2985.9	-781.6	73.5
5	A-Pillar Mid	2987.9	-775.3	-174.8
6	B-Pillar Sill	1906.0	-709.3	419.5
7	B-Pillar Low	1973.3	-790.7	2.50
8	B-Pillar Mid	1971.8	-787.8	-225.5
9	Driver Seat Track	2299.5	-542.7	199.7
10	Engine Top	3725.4	152.2	-187.3
11	Firewall	3291.0	23.4	-91.2
12	Right Roof	2019.0	623.5	-908.8
13	Right Floor Sill	2055.6	714.0	417.1
14	Rear Floorpan	966.2	5.26	101.2

Origin
X Test Vehicle Rear Bumper
Y Test Vehicle Centerline
Z Ground Plane

Orientation
X + Forward
Y + Right
Z + Down

DATA SHEET NO. 7
RIGID POLE LOAD CELL DATA

FOIL 300K RIGID POLE



LOAD CELL LOCATIONS	
ID	Height From Ground (mm)
1	77
2	477
3	632
4	969
5	1167
6	1638
7	1808
8	2030

*Measured From Top of Platform

**DATA SHEET NO. 8
 POST TEST OBSERVATIONS**

TEST DUMMY INFORMATION AND CONTACT POINTS	
Dummy Body Part	Driver SID-II's Dummy
Face	To Side Curtain Airbag
Top of Head	To Side Curtain Airbag
Left Side of Head	To Side Curtain Airbag
Back of Head	To Side Curtain Airbag
Left Shoulder	To Side Torso Airbag
Upper Torso	To Side Torso Airbag
Lower Torso	To Side Torso Airbag
Left Hip	Along Seat Back To Interior Door Panel
Left Knee	To Interior Door Panel

POST TEST DOOR PERFORMANCE					
Description	Struck Side		Non-Struck Side		Rear Hatch/ Other Door
	Front	Rear	Front	Rear	
Remained Closed and Operational	No	No	Yes	Yes	Yes
Total Separation from Vehicle at Hinges or Latches	No	No	No	No	No
Latch or Hinge Systems Pulled Out of Their Anchorages	No	No	No	No	No
Disengaged from Latched Position	No	No	No	No	No
Latch Separated from Striker	No	No	No	No	No
Jammed Shut	Yes	Yes	No	No	No
If Door Opened at Striker, Record Width of Opening at Striker (mm)	N/a	N/a	N/a	N/a	N/a

POST TEST SEAT PERFORMANCE				
Description	Struck Side		Non-Struck Side	
	Front	Rear	Front	Rear
Seat Movement Along Seat Track	No	No	No	No
Seat Disengagement from Floor Pan	No	No	No	No
Seat Back Movement from Initial Position	No	No	No	No
Seat Back Collapse	No	No	No	No

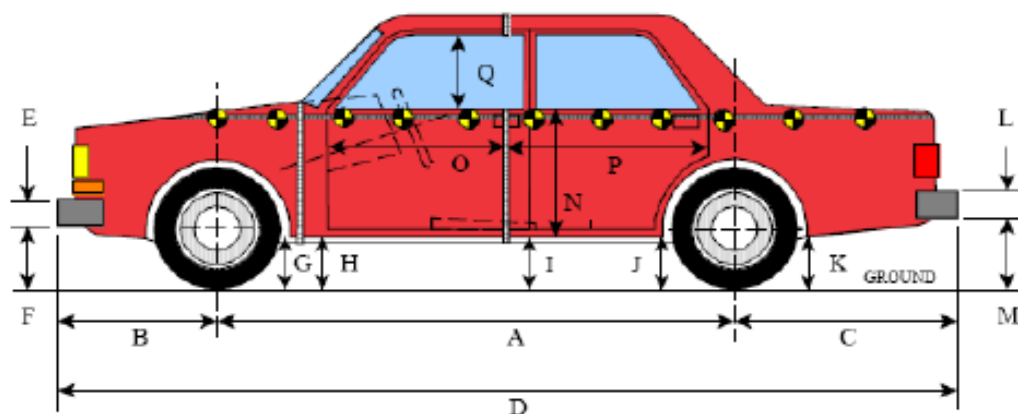
**DATA SHEET NO. 8
 POST TEST OBSERVATIONS (CONTINUED)**

POST TEST STRUCTURAL OBSERVATIONS	
Critical Areas of Performance	Observations/Conclusions
Pillar Performance	No Separation
Sill Separation	No Separation
Windshield Damage	Cracking Along Entire Windshield; Heaviest Concentration along Upper Impacted Side
Window Damage	Front Window Shattered at Impact
Other Notable Effects	None Noted

SUPPLEMENTAL RESTRAINT INFORMATION				
Restraint Type	Struck Side Driver		Struck Side Rear Passenger	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes	No		
Knee Airbag	No	N/a		
Side Curtain Airbag	Yes	Yes	Yes	Yes
Side Torso Airbag	Yes	Yes	No	N/a
Seat Belt Pretensioner	Yes	Yes	No	N/a
Seat Belt Load Limiter	Yes	N/a	No	N/a
Other	No	N/a	No	N/a

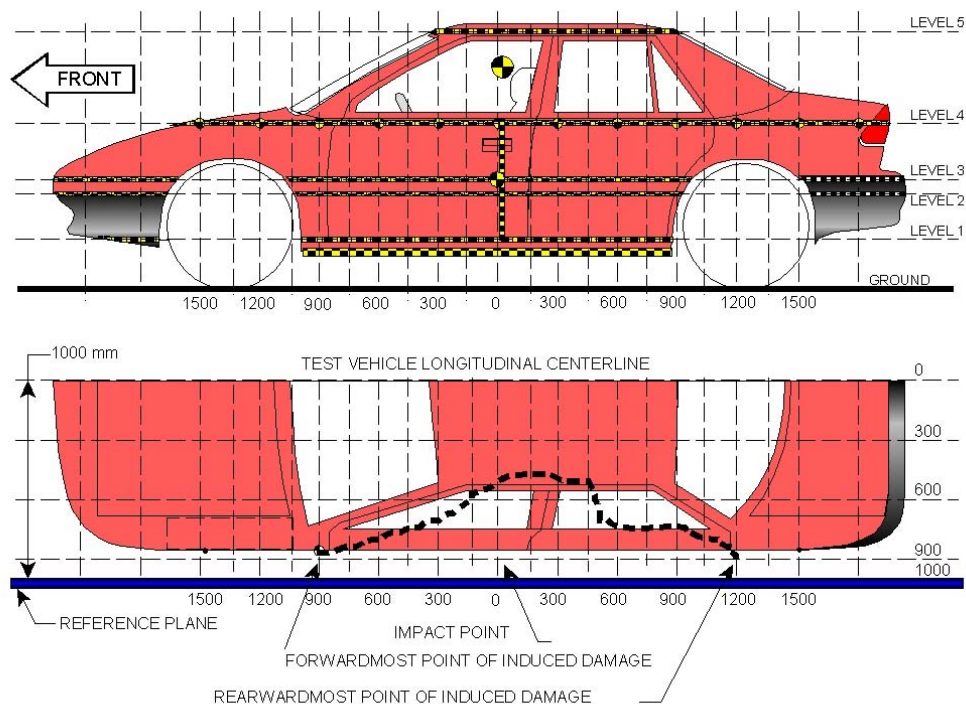
IMPACT SPEED			
Measured Parameter	Units	Tolerance	Value
Vertical Impact Reference Line (Aft of Front Axle) (Intended Impact Point)	mm		1082
Actual Impact Point (Aft of Front Axle)	mm		1085
Horizontal Offset (+ forward / - rear)	mm	+/- 38 of Intended Impact Point	-3
Angle Between Vehicle's Longitudinal Centerline and Line of Forward Motion	degrees	75 +/- 3	75.0
Trap No. 1 Velocity (Primary)	km/h	31.4 to 33.0	31.93
Trap No. 2 Velocity (Redundant)	km/h	31.4 to 33.0	31.87

DATA SHEET NO. 9
VEHICLE PROFILE MEASUREMENTS



VEHICLE PRE- AND POST- TEST MEASUREMENT INFORMATION				
Code	Description	Pre Test	Post Test	Difference
		mm	mm	mm
A	Wheelbase	2635	2532	-103
B	Front Axle to FSOV	645	629	-16
C	Rear Axle to RSOV	662	662	0
D	Total Length at Centerline	4446	4409	-37
E	Front Bumper Thickness	196	196	0
F	Front Bumper Bottom to Ground	328	354	26
G	Sill Height at Front Wheel Well	296	284	-12
H	Sill Height at Front Door Leading Edge	293	285	-8
I	Sill Height at B-Pillar	302	300	-2
J1	Sill Height at Rear Wheel Well	265	257	-8
J2	Pinch Weld Height at Rear Wheel Well	306	317	11
K	Sill Height Aft of Rear Wheel Well	434	426	-8
L	Rear Bumper Thickness	190	190	0
M	Rear Bumper Bottom to Ground	505	484	-21
N	Sill Height to Window Bottom Sill	753	751	-2
O	Front Door Leading Edge to Impact C/L	1038	790	-248
P	Rear Door Trailing Edge to Impact C/L	895	897	2
Q	Front Window Opening	435	417	-18
R	Right Side Length	3942	3956	14
S	Left Side Length	3942	3823	-119
T	Vehicle Width at B-Pillar	1765	1612	-153

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH MEASUREMENTS



NOTE: All measurements are in millimeters (mm)

MAXIMUM EXTERIOR CRUSH MEASUREMENTS				
Level	Measurement Description	Height Above Ground (mm)	Maximum Exterior Static Crush (mm)	Distance from Impact (mm)
1	Sill Top	325	402	150
2	Occupant Hip Point	670	459	150
3	Mid-Door	709	460	150
4	Window Sill	1046	431	150
5	Window Top	1546	335	0

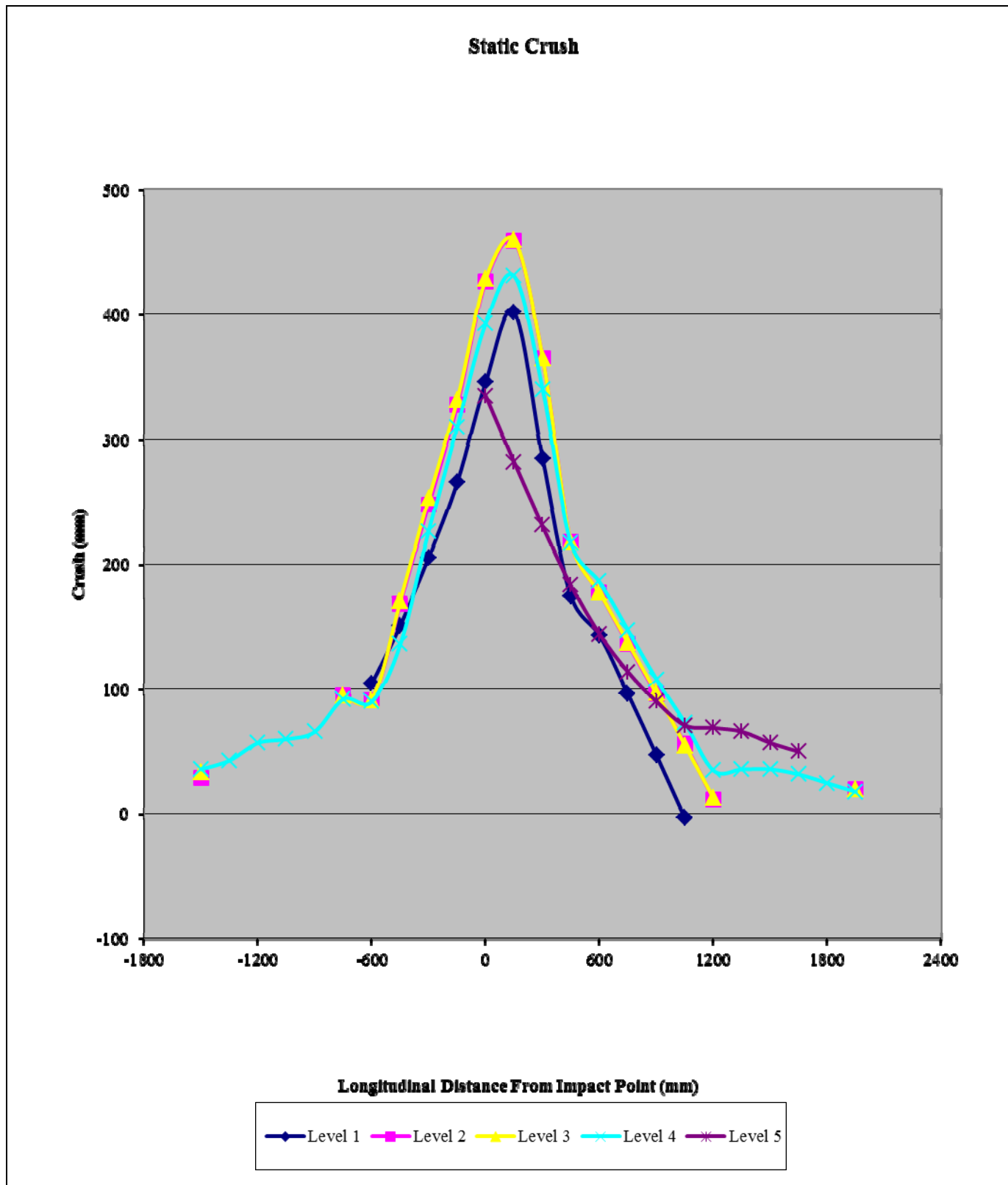
Note: All vehicle measurements taken at the vertical impact reference line.

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH MEASUREMENTS
(CONTINUED)

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

TEST VEHICLE STATIC CRUSH																
Level	1			2			3			4			5			
	325			670			709			1046			1546			
	Pre	Post	Crush	Pre	Post	Crush	Pre	Post	Crush	Pre	Post	Crush	Pre	Post	Crush	
DISTANCE IN MILLIMETERS (mm) FROM IMPACT POINT	-1800															
	-1650															
	-1500			313	342	29	314	348	34	487	523	36				
	-1350									461	504	43				
	-1200									428	485	57				
	-1050									413	473	60				
	-900									395	461	66				
	-750			273	368	95	270	365	95	383	475	92				
	-600	337	442	105	282	373	91	280	371	91	373	463	90			
	-450	335	486	151	289	457	168	288	458	170	366	502	136			
	-300	332	537	205	287	535	248	286	539	253	355	581	226			
	-150	332	598	266	286	614	328	284	616	332	346	656	310			
	0	331	677	346	284	711	427	283	712	429	340	733	393	530	865	335
	150	331	733	402	284	743	459	282	742	460	329	760	431	527	809	282
	300	331	616	285	283	648	365	281	646	365	325	665	340	527	758	231
	450	332	506	174	283	501	218	282	500	218	328	545	217	528	711	183
	600	333	476	143	284	461	177	282	459	177	317	503	186	530	674	144
	750	334	430	96	285	421	136	283	420	137	316	463	147	531	645	114
	900	335	382	47	285	381	96	282	379	97	316	424	108	532	622	90
	1050	337	334	-3	273	329	56	269	324	55	304	377	73	531	602	71
	1200				272	284	12	265	278	13	297	332	35	532	601	69
	1350										298	334	36	533	599	66
	1500										297	333	36	540	597	57
	1650										299	331	32	548	598	50
	1800										307	332	25			
	1950				289	309	20	288	308	20	319	337	18			
	2100															
	2250															
	2400															
	2550															
	2700															
	2850															
	3000															

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH MEASUREMENTS
(CONTINUED)

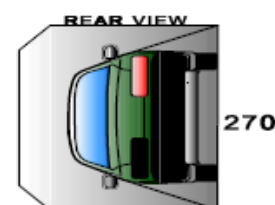
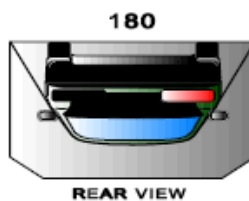
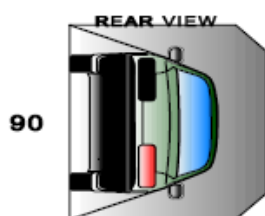


DATA SHEET NO. 11
FMVSS 301 STATIC ROLLOVER RESULTS

Temperature at Time of Impact: 20° C Test Time: 2:00 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
D				

FMVSS 301 STATIC ROLLOVER DATA



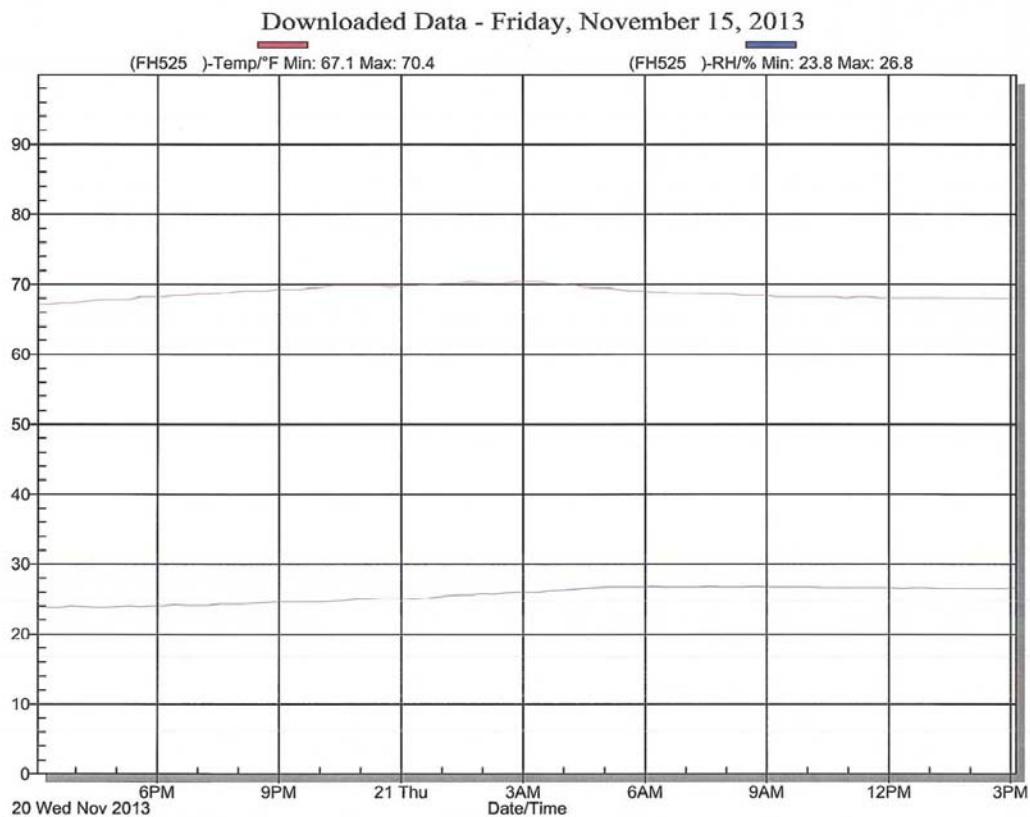
ROLLOVER SOLVENT COLLECTION TIME TABLE			
Test phase	Rotation Time (sec.)	Hold Time (sec.)	Total Time (sec.)
0° to 90°	65	300	365
90° to 180°	66	300	366
180° to 270°	64	300	364
270° to 360°	65	300	365

DATA SHEET NO. 11
FMVSS 301 STATIC ROLLOVER RESULTS (CONTINUED)

FMVSS No. 301 Rollover Spillage Table				
	First Five Minutes (oz)	Sixth Minute (oz)	Seventh Minute (oz)	Eighth Minute (oz)
0° to 90°	0	0	0	N/a
90° to 180°	0	0	0	N/a
180° to 270°	0	0	0	N/a
270° to 360°	0	0	0	N/a

Spillage Location	
0° to 90°	N/a
90° to 180°	N/a
180° to 270°	N/a
270° to 360°	N/a

DATA SHEET NO. 12
DUMMY/VEHICLE TEMPERATURE STABILIZATION DATA



Test Vehicle: 2014 Jeep Compass 5-Door MPV
Test Program: SPNCAP

NHTSA Number: M20140305
Test Date: November 21, 2013

APPENDIX A PHOTOGRAPHS

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023	Pre-Test Left Side View of Dummy Showing Belt and Chalking	A-15
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028	Pre-Test Frontal View of Seat Pan Prior to Dummy Positioning	A-17
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Figure 001: As Delivered Right Front 3-4 View of Test Vehicle



Figure 002: As Delivered Left Rear 3-4 View of Test Vehicle



Figure 003: Pre-Test Frontal View of Test Vehicle

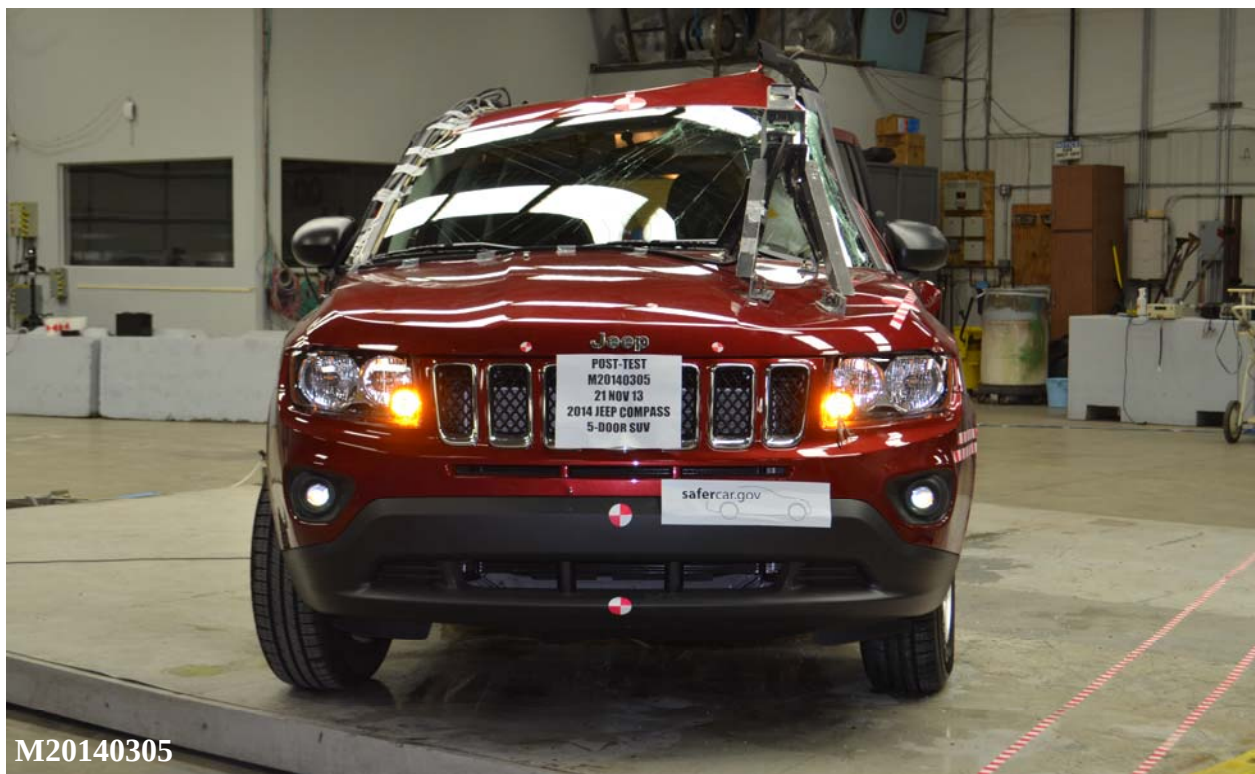


Figure 004: Post-Test Frontal View of Test Vehicle



Figure 005: Pre-Test Left Front 3-4 View of Test Vehicle



Figure 006: Post-Test Left Front 3-4 View of Test Vehicle



Figure 007: Pre-Test Left Side View of Test Vehicle



Figure 008: Post-Test Left Side View of Test Vehicle



Figure 009: Pre-Test Left Rear 3-4 View of Test Vehicle



Figure 010: Post-Test Left Rear 3-4 View of Test Vehicle



Figure 011: Pre-Test Rear View of Test Vehicle



Figure 012: Post-Test Rear View of Test Vehicle



Figure 013: Pre-Test Right Side View of Test Vehicle

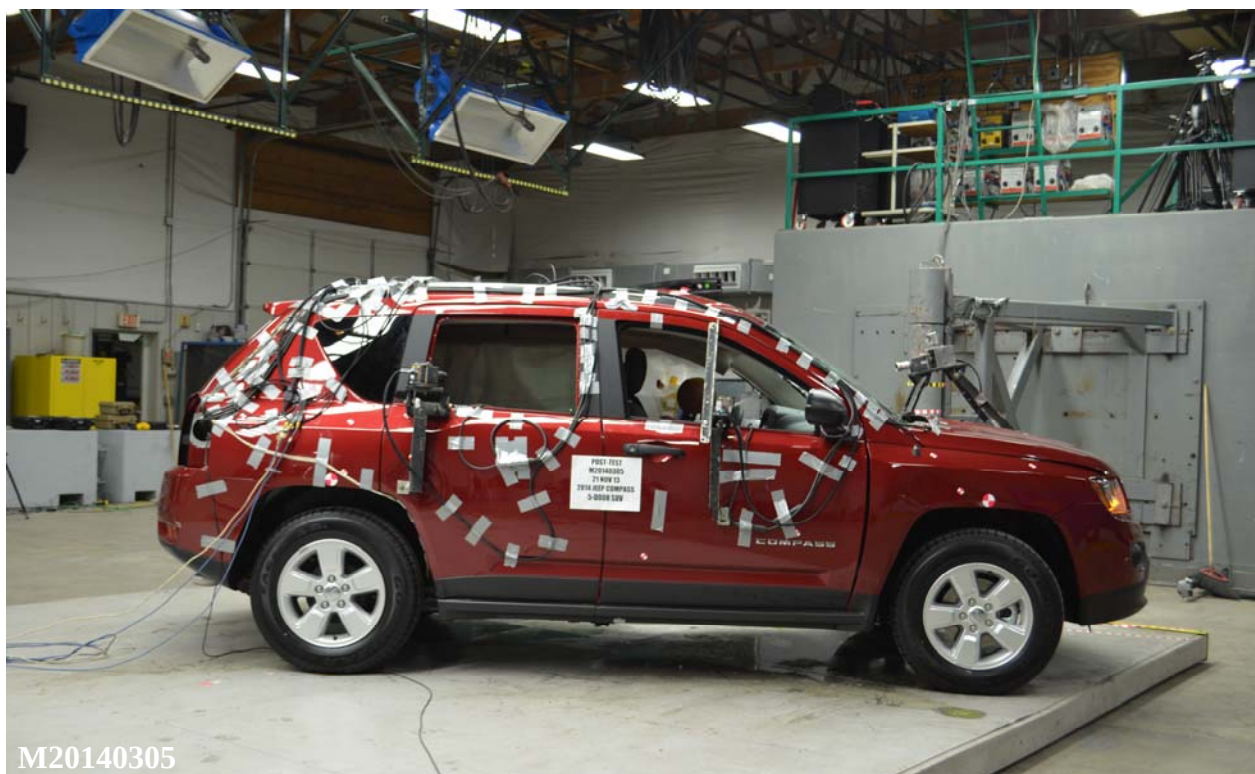


Figure 014: Post-Test Right Side View of Test Vehicle



Figure 015: Pre-Test Overhead View of Test Area



Figure 016: Post-Test Overhead View of Test Area



Figure 017: Pre-Test Left Side View of Pole Positioned Against Side of Vehicle



Figure 018: Pre-Test Right Side View of Pole Positioned Against Side of Vehicle

Not Taken

M20140305

Figure 019: Pre-Test Close-Up View of Impact Point Target



Figure 020: Post-Test Close-Up View of Impact Point Target Showing Impact Location



Figure 021: Pre-Test Front Close-Up View of Dummy Head and Chest



Figure 022: Post-Test Front Close-Up View of Dummy



Figure 023: Pre-Test Left Side View of Dummy Showing Belt and Chalking

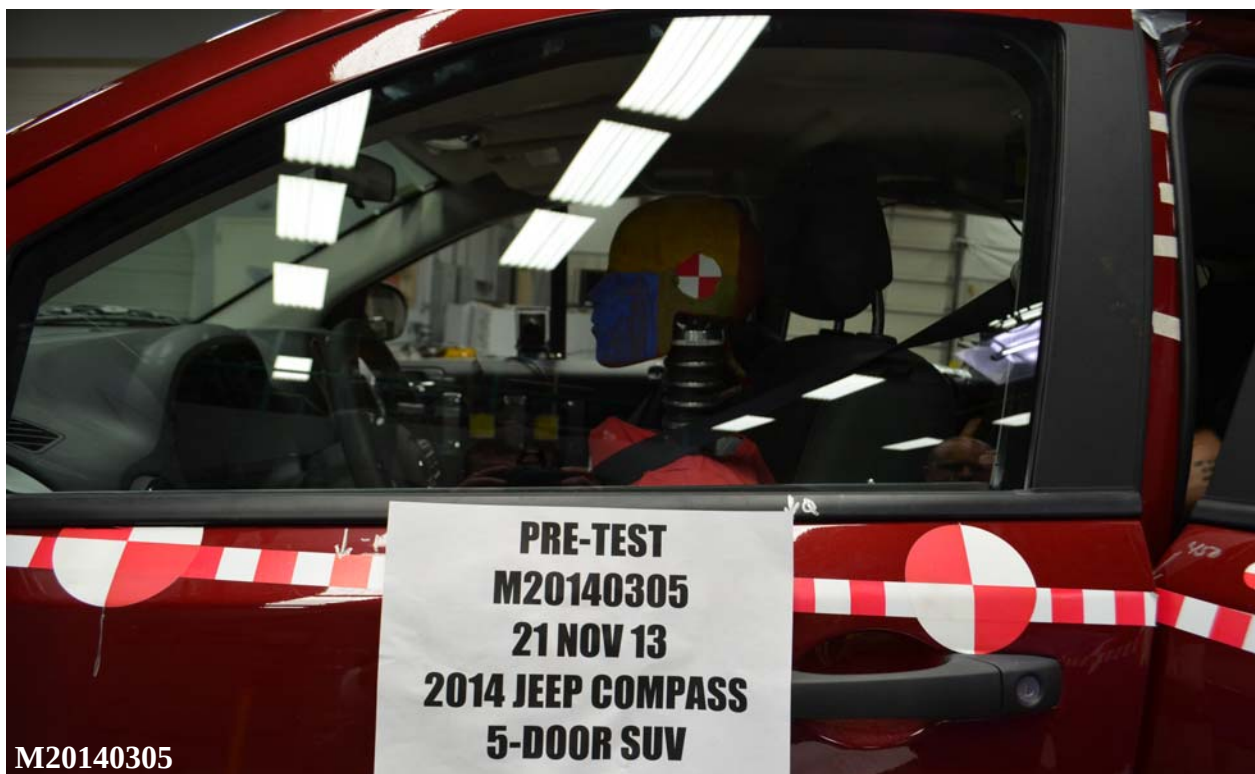


Figure 024: Pre-Test Left Side View of Dummy Shoulder and Door Top View



Figure 025: Post-Test Left Side View of Dummy Shoulder and Door Top View



Figure 026: Pre-Test Frontal View of Seat Back Prior to Dummy Positioning



Figure 027: Pre-Test Frontal Close-Up View of Dummy Head and Shoulders in Relation to Head Restraint



Figure 028: Pre-Test Frontal View of Seat Pan Prior to Dummy Positioning



Figure 029: Pre-Test Overhead View of Dummy Thighs on Seat Pan



Figure 030: Pre-Test Left Side View of Dummy's Neck Showing Position of Adjustable Neck Bracket



Figure 031: Pre-Test Left Side View of Dummy's Head Showing Dummy's Head is Level



Figure 032: Pre-Test Placement of Dummy's Feet



Figure 033: Pre-Test View of Belt Anchorage for Dummy



Figure 034: Pre-Test Left Side View of Steering Wheel



Figure 035: Pre-Test View of Disengaged Parking Brake



Figure 036: Pre-Test View of Parking Brake



Figure 037: Pre-Test Close-Up Left Side View of Drive Seat Track



Figure 038: Pre-Test Close-Up Left Side View of Driver Seat Back



Figure 039: Pre-Test Close-Up View of Driver Seat Back or Head Restraint



Figure 040: Pre-Test Dummy and Door Clearance View



Figure 041: Post-Test Dummy and Door Clearance View

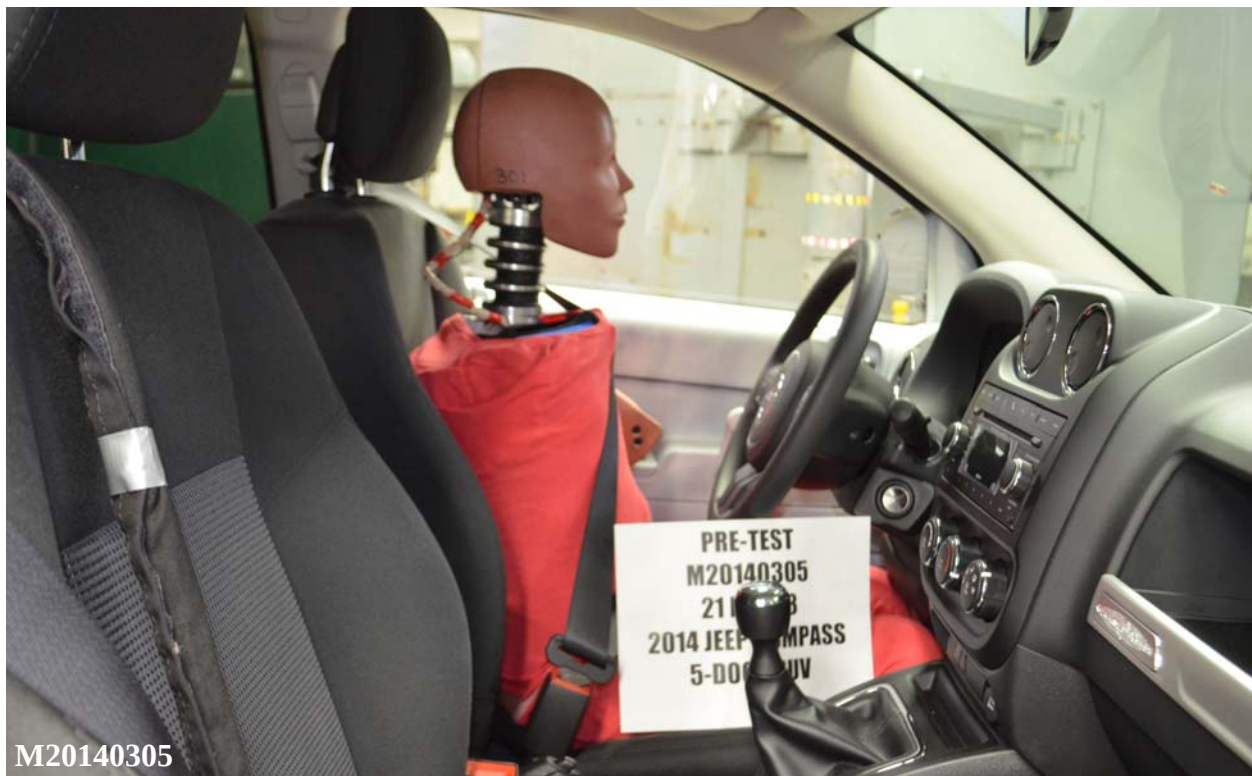


Figure 042: Pre-Test Right Side View of Dummy and Front Seat of Occupant Compartment



Figure 043: Post-Test Right Side View of Dummy and Front Seat of Occupant Compartment



Figure 044: Pre-Test Inner Door Panel View



Figure 045: Post-Test Inner Door Panel View Showing Dummy Contact Locations

Not Applicable

M20140305

Figure 046 Post-Test Dummy Close-Up Head Contact with Vehicle Interior View



Figure 047: Post-Test Dummy Close-Up Head Contact with Side Air bag View



Figure 048: Post-Test Dummy Close-Up Torso Contact with Vehicle Interior View



Figure 049: Post-Test Dummy Close-Up Torso Contact with Side Air bag View



Figure 050: Post-Test Dummy Close-Up Pelvis Contact with Vehicle Interior View

Not Applicable

M20140305

Figure 051: Post-Test Dummy Close-Up Pelvis Contact with Side Air bag View



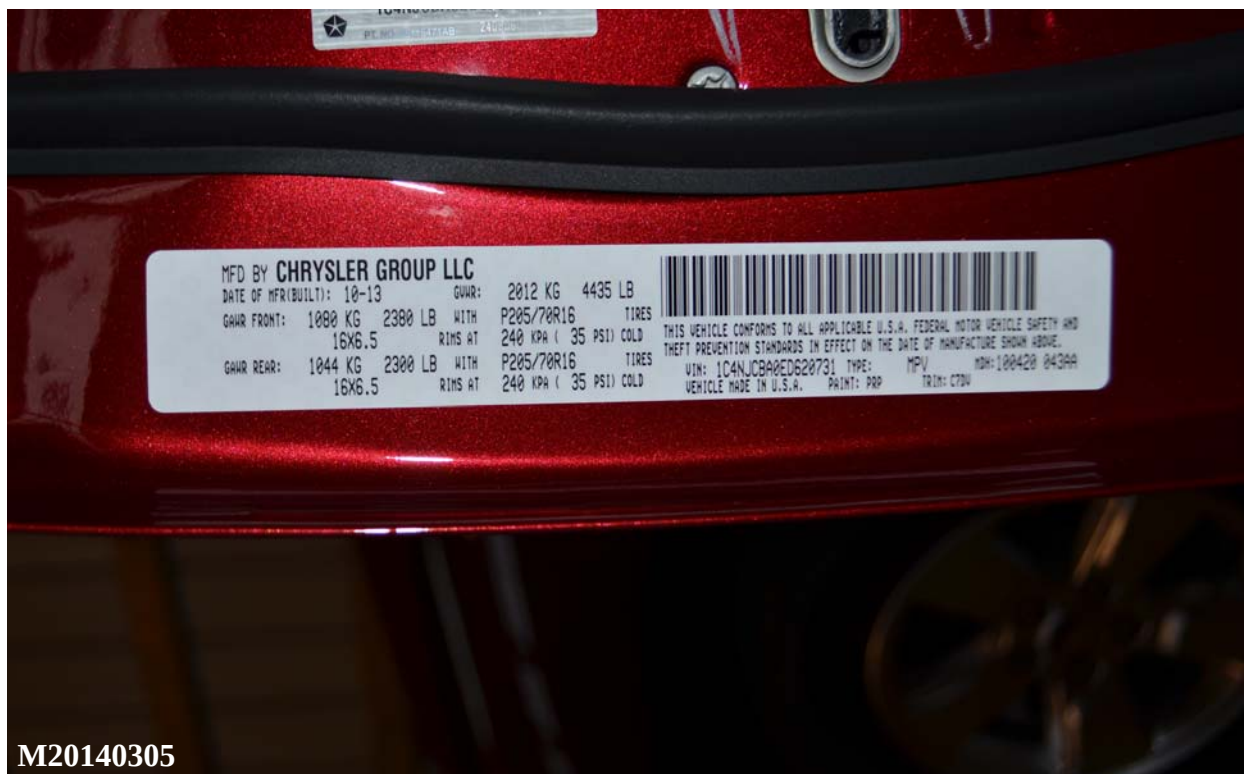
Figure 052: Post-Test Dummy Close-Up Contact with Vehicle Interior View



Figure 053: Pre-Test View of Fuel Filler Cap or Fuel Filler Neck

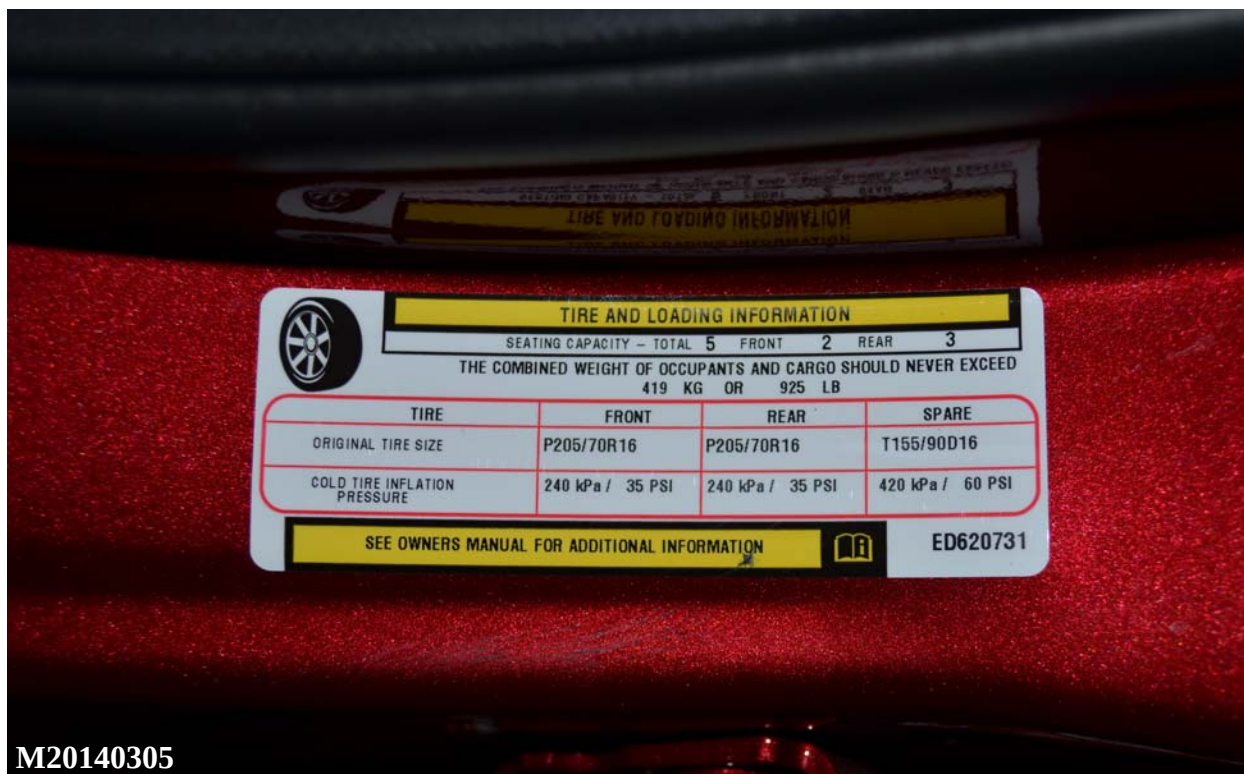


Figure 054: Post-Test View of Fuel Filler Cap or Fuel Filler Neck



M20140305

Figure 055: Close-Up View of Vehicle's Certification Label



M20140305

Figure 056: Close-Up View of Vehicle's Tire Information Placard or Label



Figure 057: Pre-Test Pole Barrier Front View



Figure 058: Post-Test Pole Barrier Front View



Figure 059: Pre-Test Pole Barrier Side View



Figure 060: Post-Test Pole Barrier Side View



Figure 061: Pre-Test Ballast View



Figure 062: Post-Test Primary and Redundant Speed Trap Read-Out

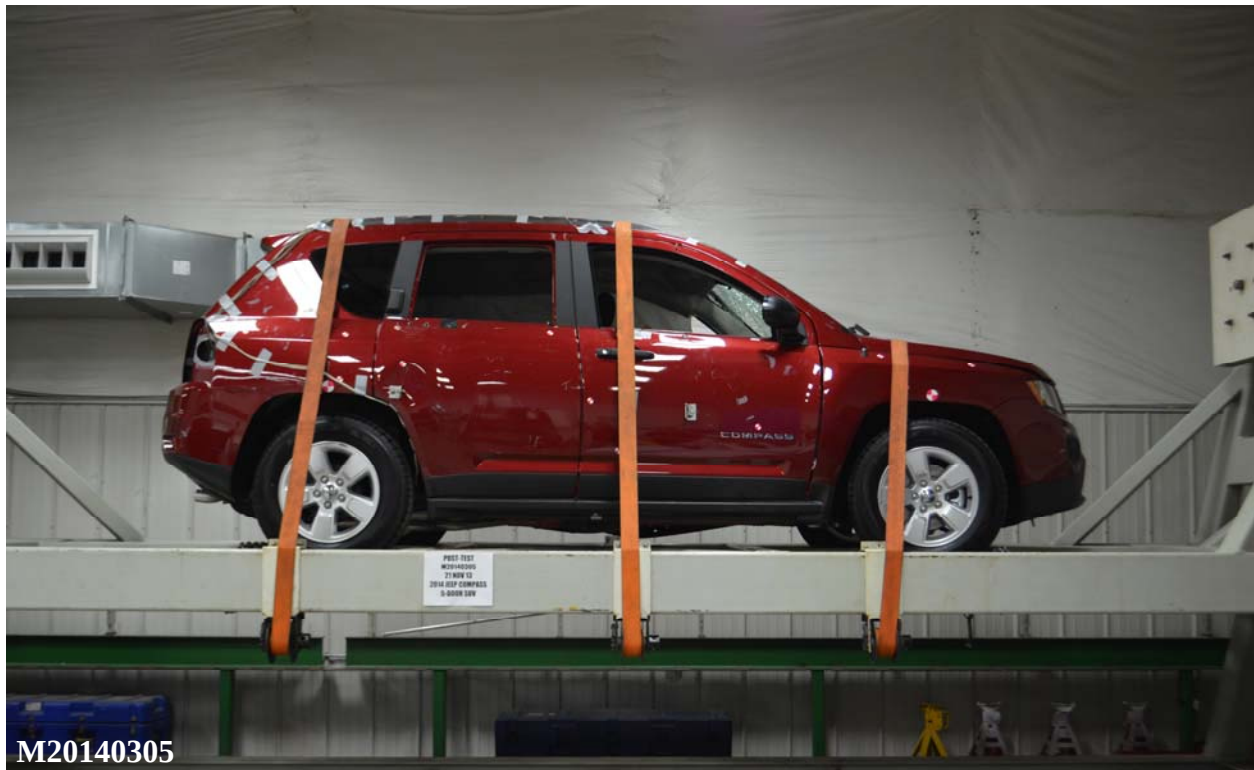


Figure 063: FMVSS No. 301 Static Rollover 0 Degrees

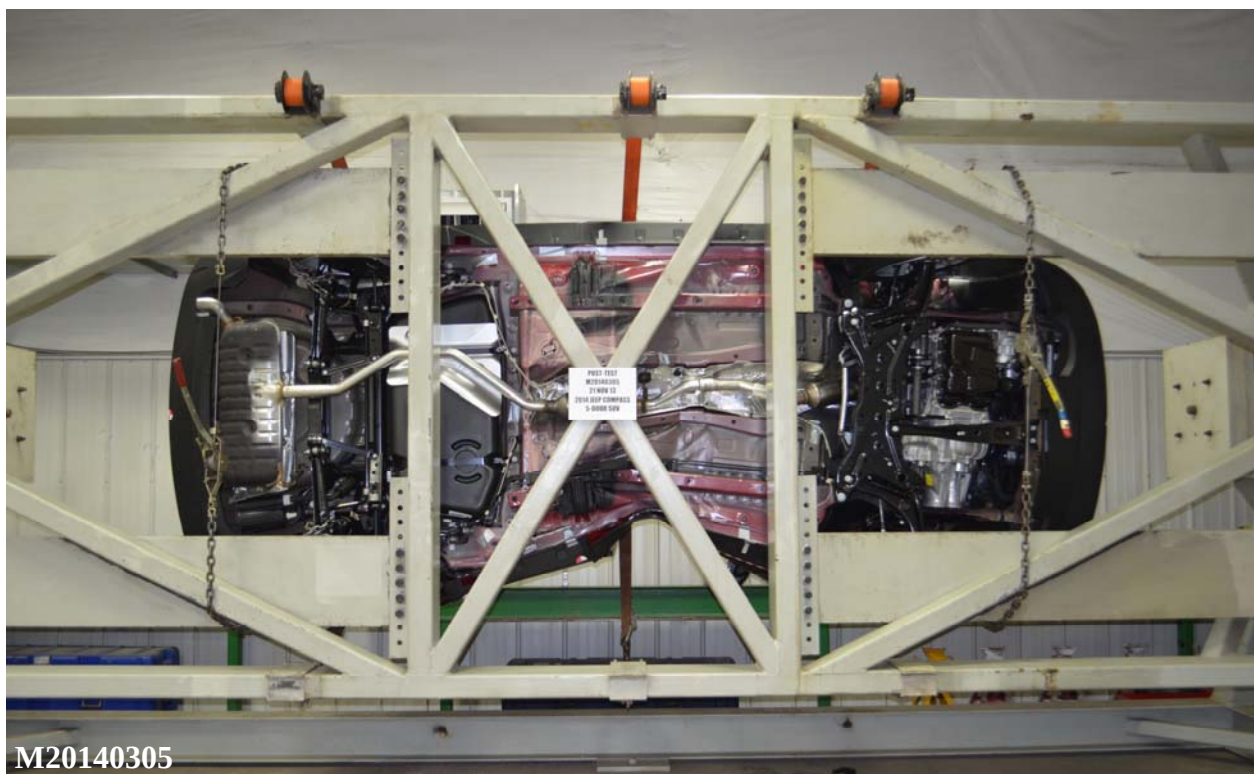


Figure 064: FMVSS No. 301 Static Rollover 90 Degrees



Figure 065: FMVSS No. 301 Static Rollover 180 Degrees



Figure 066: FMVSS No. 301 Static Rollover 270 Degrees



Figure 067: FMVSS No. 301 Static Rollover 360 Degrees



Figure 068: Impact Event

**2014 MODEL YEAR
COMPASS SPORT FWD**

For more information visit: www.jeep.com
or call 1-877-IAM-JEEP

Chrysler Group LLC

THIS VEHICLE IS MANUFACTURED TO MEET SPECIFIC UNITED STATES REQUIREMENTS. THIS VEHICLE IS NOT MANUFACTURED FOR SALE OR REGISTRATION OUTSIDE OF THE UNITED STATES.

MANUFACTURER'S SUGGESTED RETAIL PRICE OF THIS MODEL INCLUDING DEALER PREPARATION

Base Price: \$18,495

JEOP COMPASS SPORT FWD
Exterior Color: Deep Cherry Red Crystal Pearl Coat Exterior Paint
Interior Color: Dark Slate Gray Trim and Seat Color
Interior: Premium Cloth Bucket Seats
Engine: 2.0-Liter I4 DOHC 16-Valve Dual VVT Engine
Transmission: 5-Speed Manual Transmission

STANDARD EQUIPMENT (UNLESS REPLACED BY OPTIONAL EQUIPMENT)

FUNCTIONAL SAFETY FEATURES
Advanced Multistage Front Airbags
Supplemental Side-Curtain Front and Rear Airbags
Supplemental Front Seat-Mounted Side Airbags
Active Head Restraints
Front Passenger Seat Belt Alert
Electronic Stability Control
Electronic Roll Mitigation
Speed Control
Anti-Lock Front Disc / Rear Drum Brakes
Brake Assist
Hill Start Assist
Steering Key/Throttle Disconnect System
Rear Window Defogger
Rear Window Wiper / Washer
Compact Spare Tire

INTERIOR FEATURES
Air Conditioning
Rear 60 / 40 Folding Seat
Outside Temperature Display in Cluster
Removable Day / Night Mirror
Uconnect® 3 130 AMP/1400 MP3
Audio Jack Input for Mobile Devices
4 Speakers
12-Volt Auxiliary Power Outlet
Map / Dome Reading Lamps
Removable Cup Holders
Tire Pressure Monitor with Warning Lamp
Tilt Steering Column
Passenger Assist Handles
Interior Removable / Rechargeable Lamp
Luxury Front and Rear Floor Mats

OPTIONAL EQUIPMENT
Customer Preferred Package 28A
Uconnect® 3 250 600 DVD MP3 \$425

DESTINATION CHARGE \$395

TOTAL PRICE: * \$19,915

WARRANTY COVERAGE
5-year or 100,000-mile Powertrain Limited Warranty.
3-year or 50,000-mile Basic Limited Warranty.
5-year or 100,000-mile Roadside Assistance; certain restrictions apply.
Ask Dealer for a copy of the limited warranties or see your owner's manual for details.

**5 YEAR / 100,000 MILE
POWERTRAIN WARRANTY**

Assembly Plant: Belvidere, Illinois, U.S.A.
VIN: 1C4JNCBAED-620731

EPA DOT Fuel Economy and Environment

Fuel Economy

26 MPG
combined city/hwy

23 city
30 highway

3.8 gallons per 100 miles

You Save \$1,500
in fuel costs over 5 years compared to the average new vehicle.

Annual fuel cost \$2,000

Fuel Economy & Greenhouse Gas Rating (tailpipe only)

Smog Rating (tailpipe only)

fuel economy.gov
Calculate personalized estimates and compare vehicles

GOVERNMENT 5-STAR SAFETY RATINGS

Overall Vehicle Score Not Rated
Based on the combined ratings of frontal, side, and rollover. Should ONLY be compared to other vehicles of similar size and weight.

Frontal Crash Driver ★★★ Passenger ★★★
Based on the risk of injury in a frontal impact. Should ONLY be compared to other vehicles of similar size and weight.

Side Crash Front seat Not Rated Rear seat Not Rated
Based on the risk of injury in a side impact.

Rollover ★★★
Based on the risk of rollover in a single-vehicle crash.

Star ratings range from 1 to 5 stars (★★★★★) with 5 being the highest.
Source: National Highway Traffic Safety Administration (NHTSA)
www.safercar.gov or 1-888-327-4236

PARTS CONTENT INFORMATION
FOR VEHICLES IN THIS CARLINE:
U.S./CANADIAN PARTS CONTENT: 67 %
NOTE: PARTS CONTENT DOES NOT INCLUDE FINAL ASSEMBLY, DISTRIBUTION, OR OTHER NON-PARTS COSTS.
FOR THIS VEHICLE:
FINAL ASSEMBLY POINT:
BELVIDERE, ILLINOIS, U.S.A.
COUNTRY OF ORIGIN:
ENGINE: UNITED STATES
TRANSMISSION: UNITED STATES

Figure 069: Monroney Label

030907490

Push Button

022607494

Active Head Restraint (Normal Position)

For comfort the Active Head Restraints can be tilted forward and backward. To tilt the head restraint closer to the back of your head, pull forward on the bottom of the head restraint. Push rearward on the bottom of the head restraint to move the head restraint away from your head.

M20140305

Figure 070: Head Restraint Use and Adjustment Information from Vehicle Owner's Manual

Test Vehicle: 2014 Jeep Compass 5-Door MPV
Test Program: SPNCAP

NHTSA Number: M20140305
Test Date: November 21, 2013

APPENDIX B
ATD AND VEHICLE RESPONSE DATA

The following plots are provided in the test report

Data Plot	Description	Page
1	Driver Head Acceleration (X) Redundant vs. Time	B-4
2	Driver Head Acceleration (Y) Primary vs. Time	B-5
3	Driver Head Acceleration (Z) Primary vs. Time	B-6
4	Driver Head Resultant Acceleration Primary vs. Time	B-7
5	Driver Lower Spine T ₁₂ Acceleration (X) vs. Time	B-8
6	Driver Lower Spine T ₁₂ Acceleration (Y) vs. Time	B-9
7	Driver Lower Spine T ₁₂ Acceleration (Z) vs. Time	B-10
8	Driver Lower Spine T ₁₂ Resultant Acceleration vs. Time	B-11
9	Driver Illiac Wing Force (Y) on Impact Side vs. Time	B-12
10	Driver Acetabulum Force (Y) on Impact Side vs. Time	B-13
11	Driver Total Pelvis Force (Y) on Impact Side vs. Time	B-14

The following additional data for this test can be obtained from the Research and Development section of the NHTSA website. The website can be found at www.NHTSA.dot.gov.

Additional Driver Dummy Instrumentation Data

Driver Head Acceleration (X) Primary
Driver Head Acceleration (Y) Redundant
Driver Head Acceleration (Z) Redundant
Driver Upper Thorax Rib Deflection (Y)
Driver Middle Thorax Rib Deflection (Y)
Driver Lower Thorax Rib Deflection (Y)
Driver Upper abdomen rib deflection (Y)
Driver Lower abdomen rib deflection (Y)
Driver Shoulder Contact Switch
Driver Pelvis Contact Switch

Vehicle Instrumentation Data

Vehicle Center of Gravity Acceleration (X)
Vehicle Center of Gravity Acceleration (Y)
Vehicle Center of Gravity Acceleration (Z)
Vehicle Center of Gravity Angular Rate About X (Roll)
Vehicle Center of Gravity Angular Rate About Y (Pitch)
Vehicle Center of Gravity Angular Rate About Z (Yaw)
Left Floor Sill Acceleration (Y)
Left A-Pillar Sill Acceleration (Y)
Left Lower A-Pillar Acceleration (Y)
Left Middle A-Pillar Acceleration (Y)
Left B-Pillar Sill Acceleration (Y)
Left Lower B-Pillar Acceleration (Y)
Left Middle B-Pillar Acceleration (Y)
Driver Seat Track at Dummy H-Point Acceleration (Y)
Engine Top Acceleration (X)
Engine Top Acceleration (Y)
Firewall Center Acceleration (Y)
Right Roof at Vertical Impact Reference Line Acceleration (Y)
Right Sill at Vertical Impact Reference Line Acceleration (Y)
Rear Floorpan Behind Rear Axle at Centerline Acceleration (X)
Rear Floorpan Behind Rear Axle at Centerline Acceleration (Y)

Pole Instrumentation Data

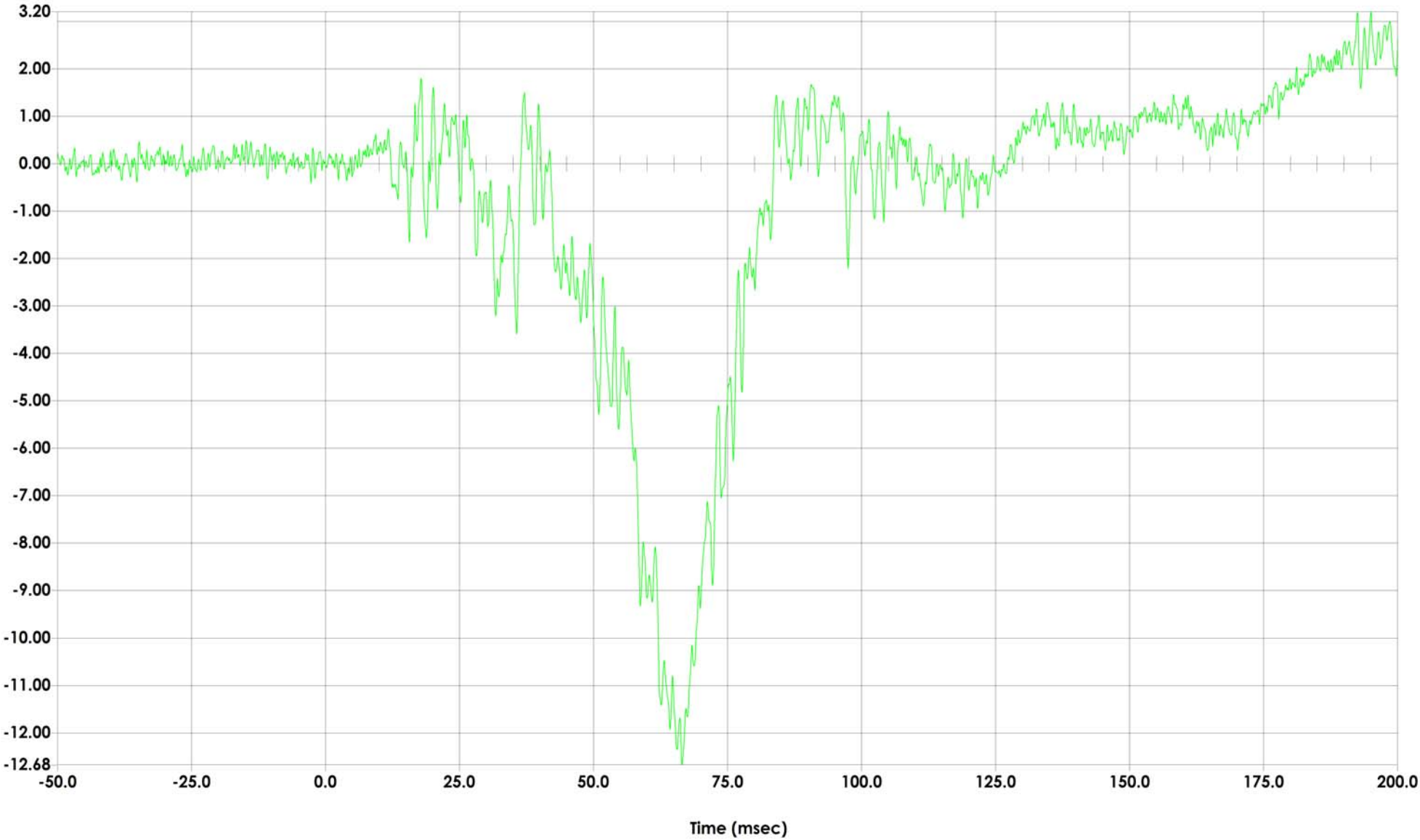
Load Cell Pole Barrier #1 Force (Y)
Load Cell Pole Barrier #2 Force (Y)
Load Cell Pole Barrier #3 Force (Y)
Load Cell Pole Barrier #4 Force (Y)
Load Cell Pole Barrier #5 Force (Y)
Load Cell Pole Barrier #6 Force (Y)
Load Cell Pole Barrier #7 Force (Y)
Load Cell Pole Barrier #8 Force (Y)

Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC1000
Plot number	001
Units	G'S

Max	3.20	G'S
	195.04	msec
Min	-12.68	G'S
	66.48	msec



Head Acceleration (X) Primary vs. Time

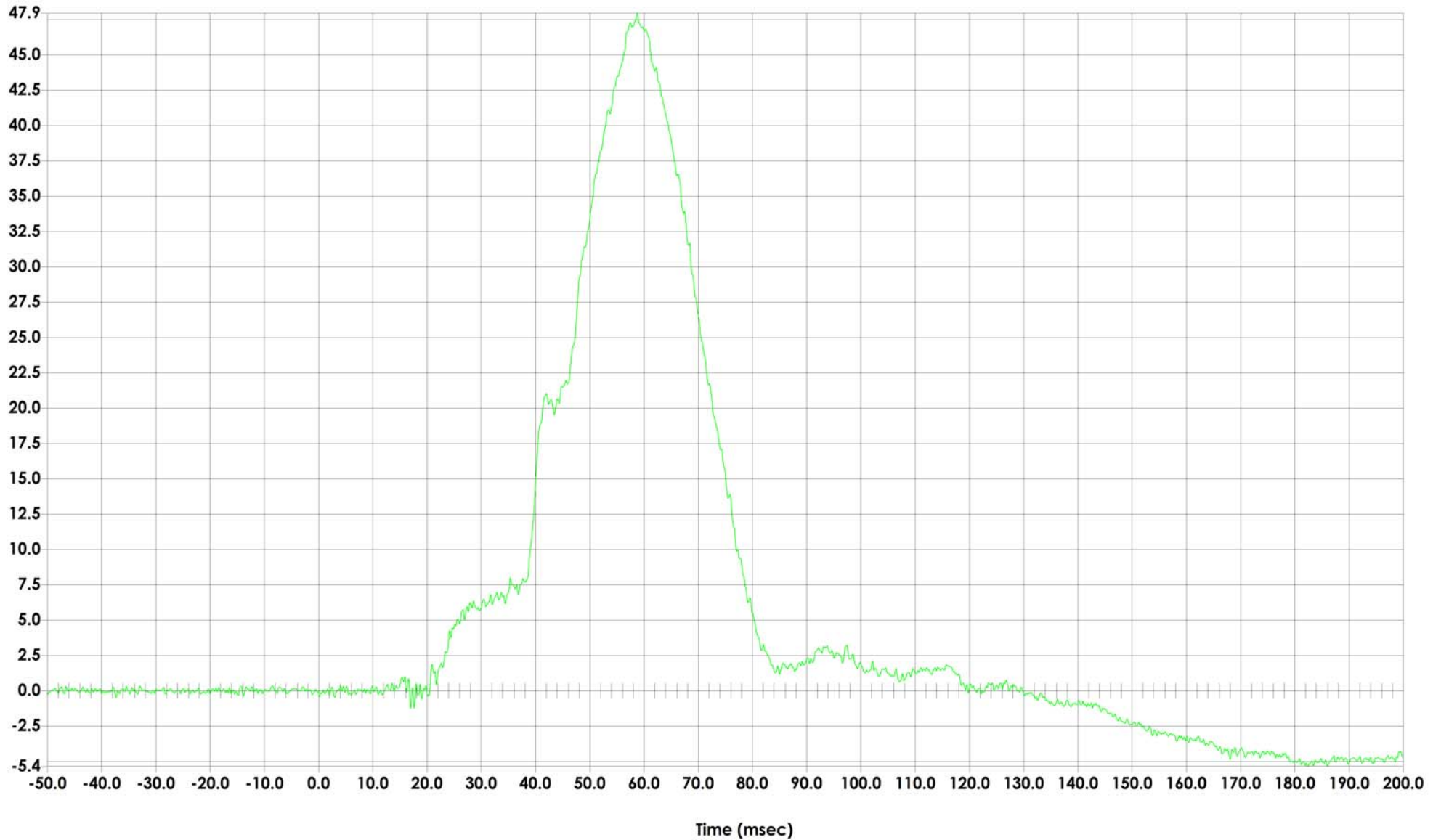


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC1000
Plot number	002
Units	G'S

Max	47.94	G'S
	58.72	msec
Min	-5.37	G'S
	186.00	msec



Head Acceleration (Y) Primary vs. Time

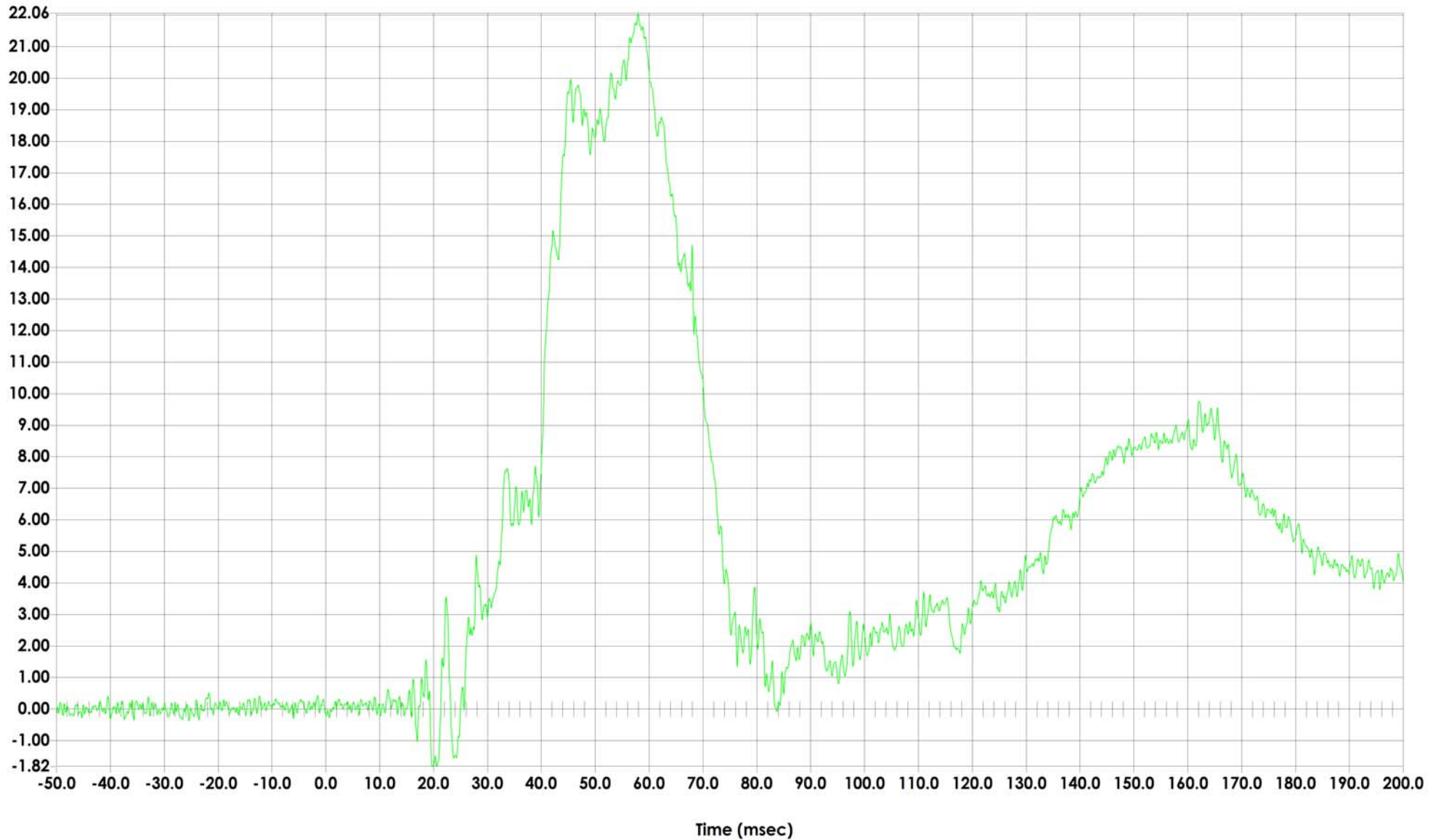


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC1000
Plot number	003
Units	G'S

Max	22.06	G'S
	57.92	msec
Min	-1.82	G'S
	19.76	msec



Head Acceleration (Z) Primary vs. Time

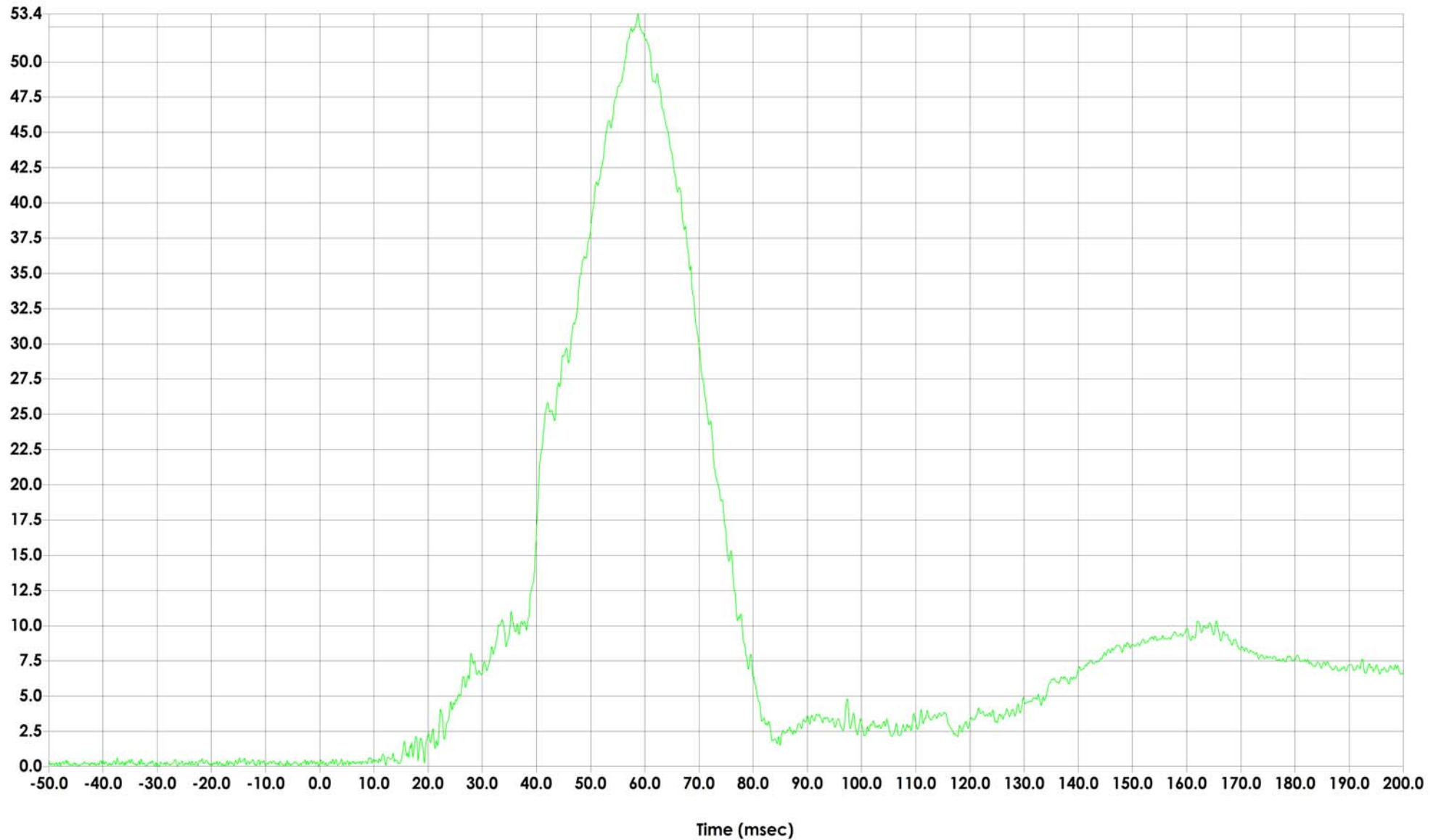


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC1000
Plot number	035
Units	G'S

Max	53.40	G'S
	58.72	msec
Min	0.01	G'S
	-0.24	msec



Driver Head Resultant Acceleration Primary vs. Time

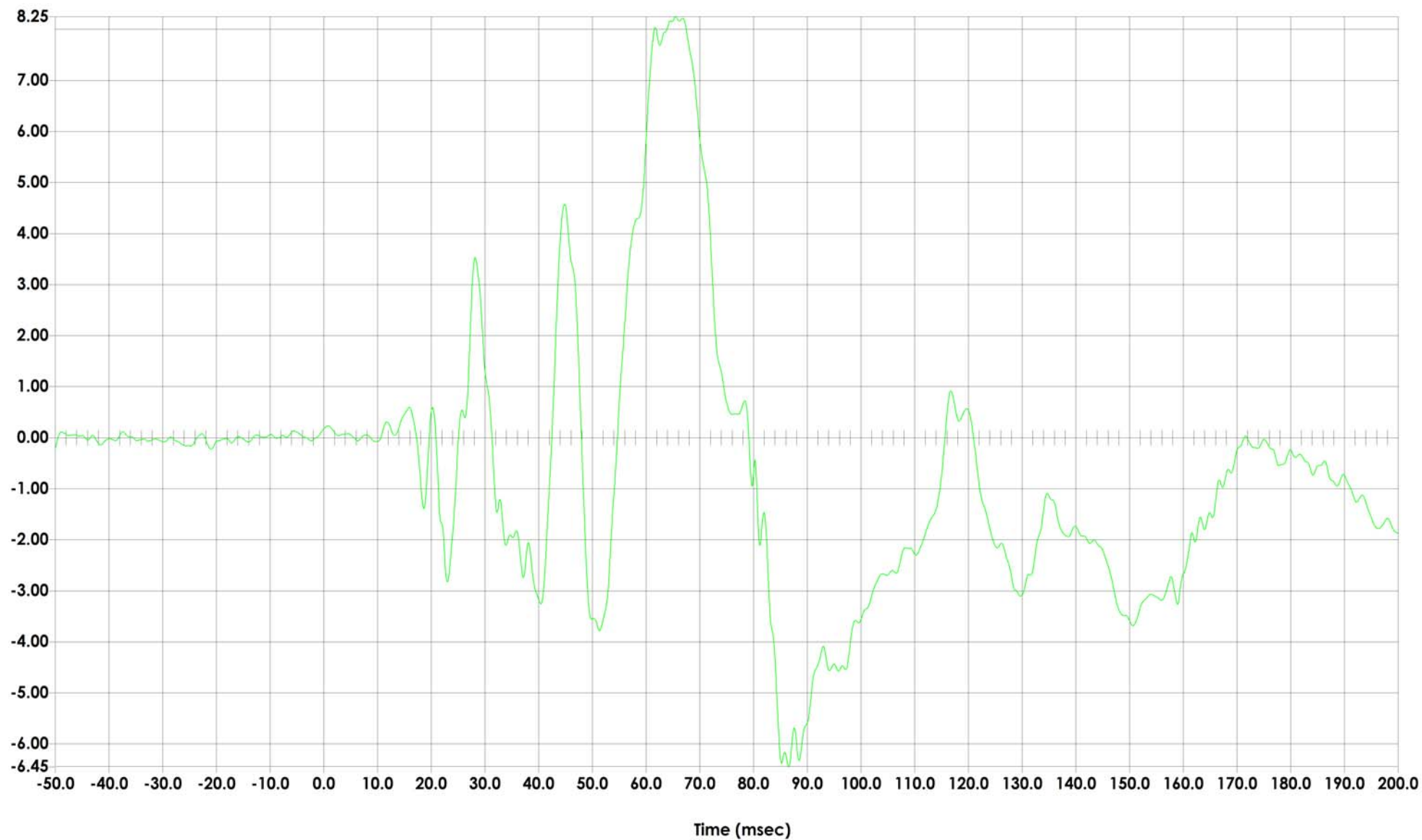


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC180
Plot number	012
Units	G'S

Max	8.25	G'S
	65.44	msec
Min	-6.45	G'S
	86.56	msec



Lower Spine T12 Acceleration (X) vs. Time

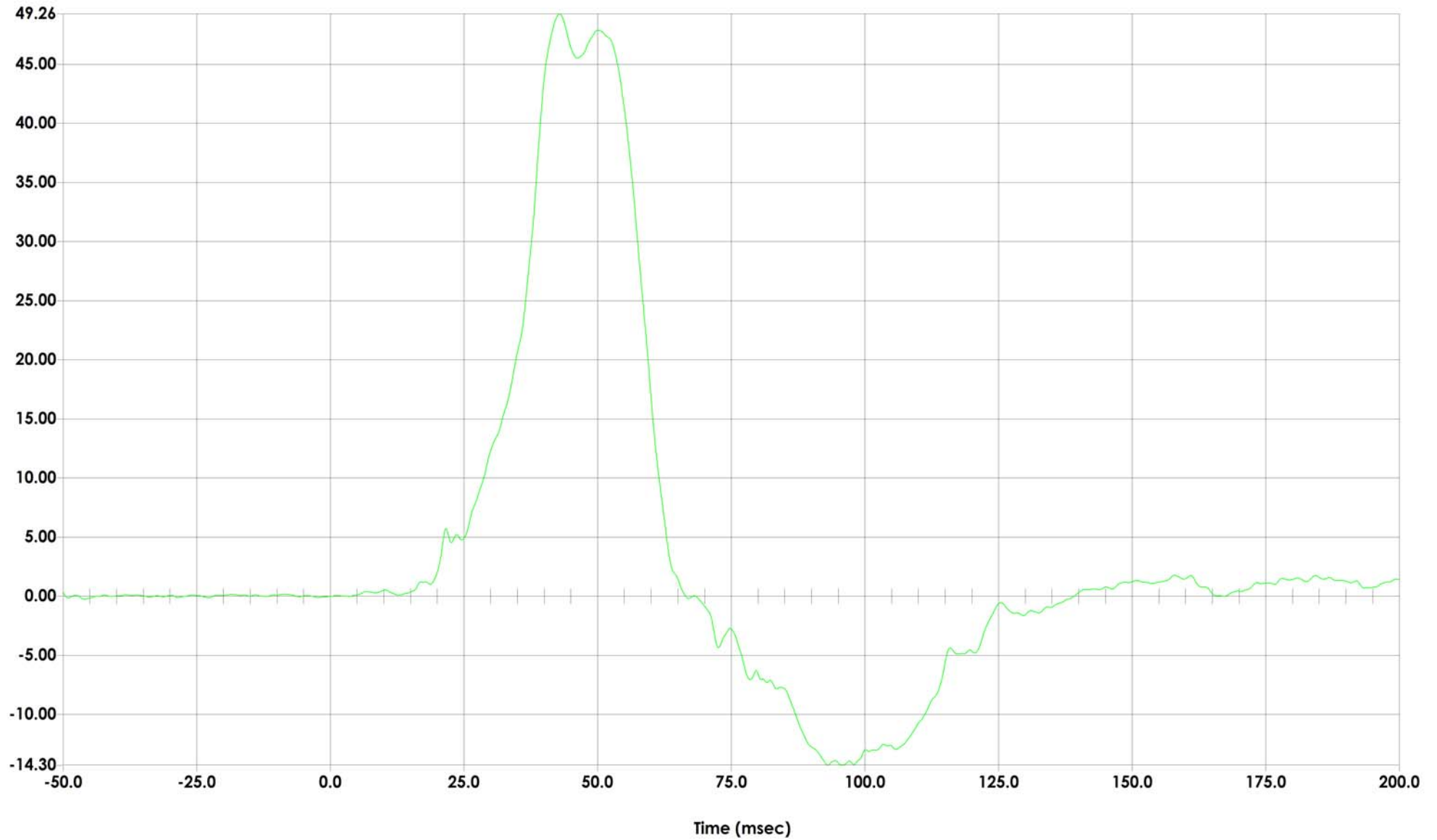


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC180
Plot number	013
Units	G'S

Max	49.26	G'S
	42.88	msec
Min	-14.30	G'S
	93.04	msec



Lower Spine T12 Acceleration (Y) vs. Time

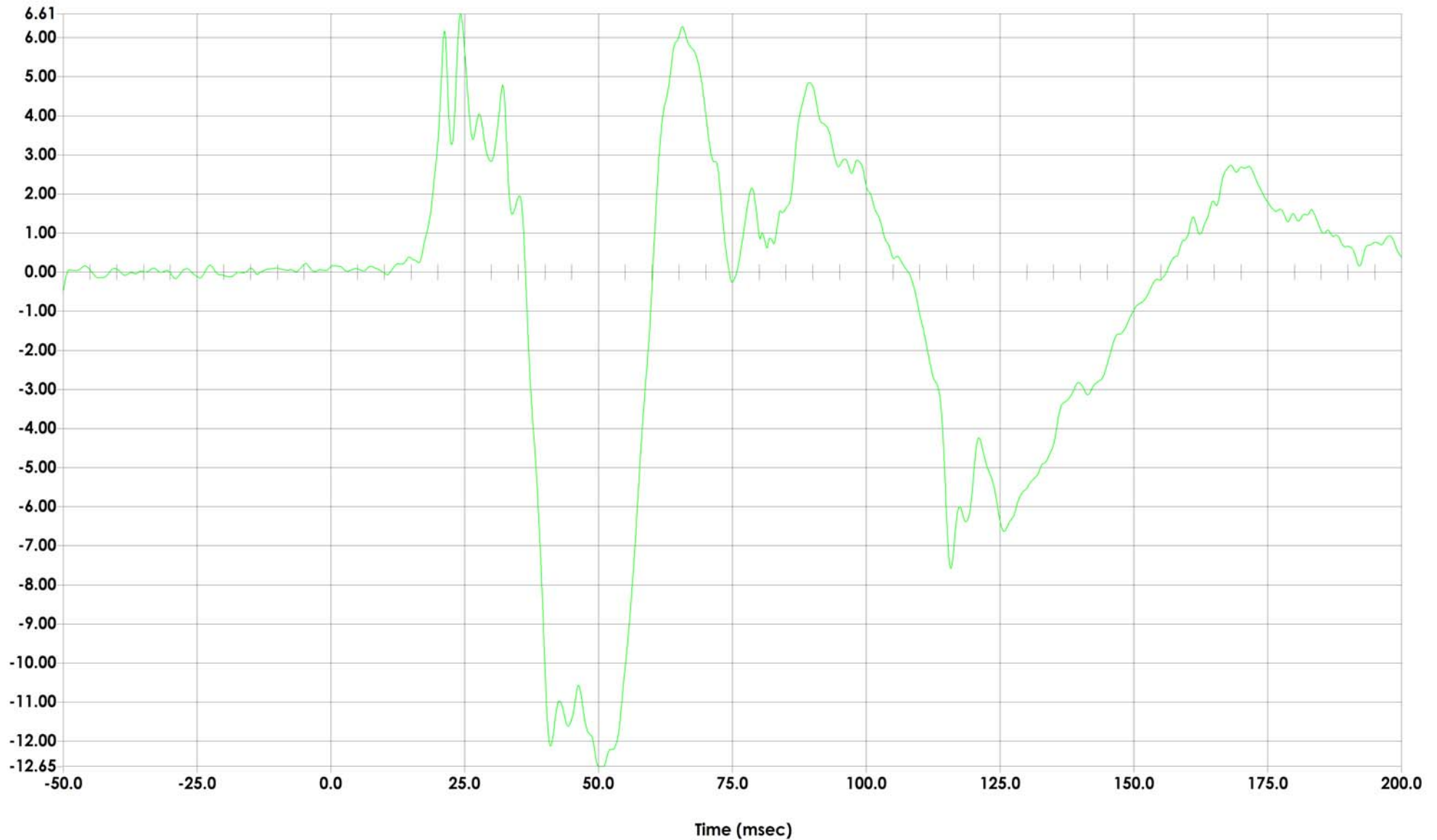


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC180
Plot number	014
Units	G'S

Max	6.61	G'S
	24.24	msec
Min	-12.65	G'S
	50.48	msec



Lower Spine T12 Acceleration (Z) vs. Time

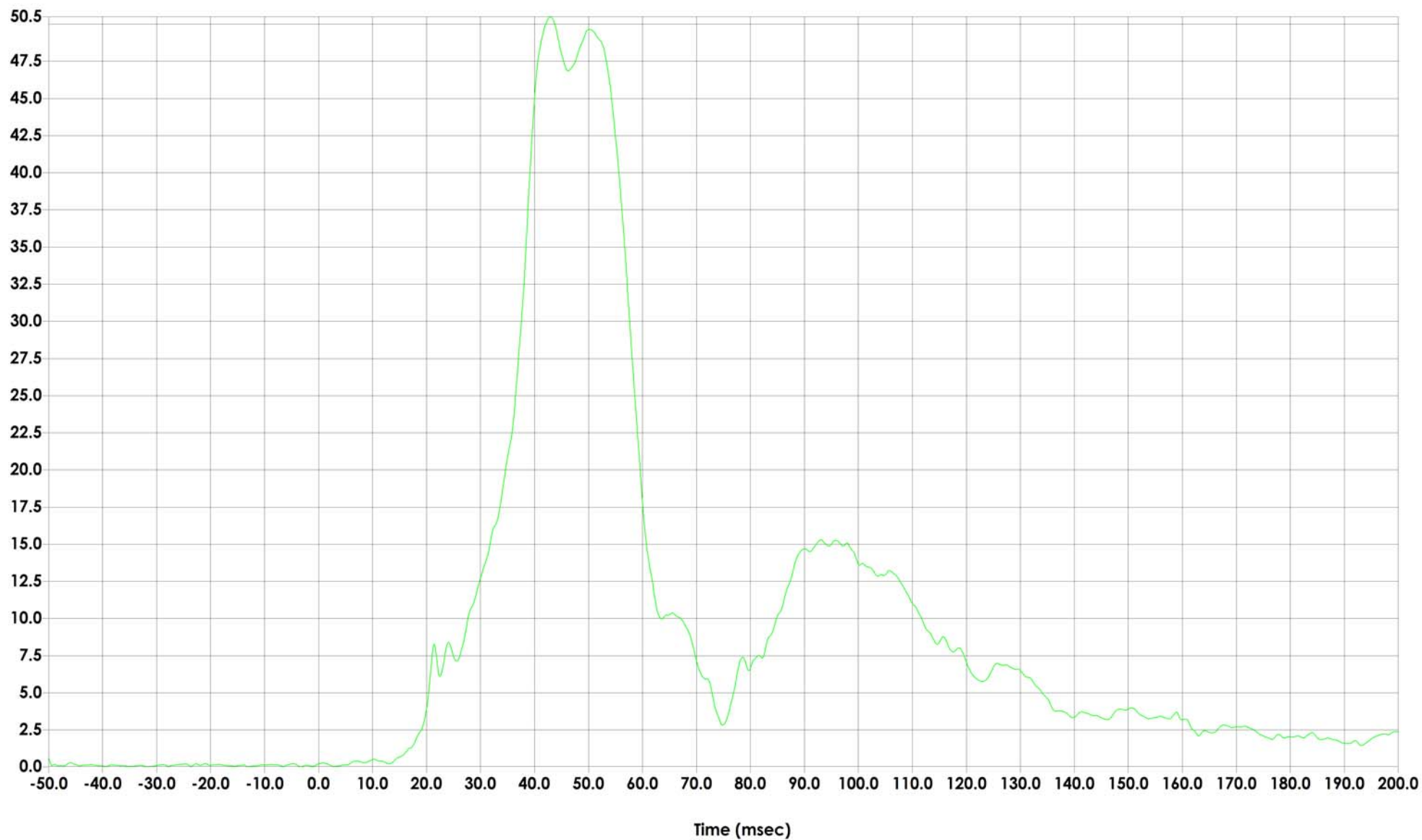


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC180
Plot number	036
Units	G'S

Max	50.49	G'S
	42.96	msec
Min	0.03	G'S
	-13.20	msec



Driver Lower Spine T12 Resultant Acceleration vs. Time

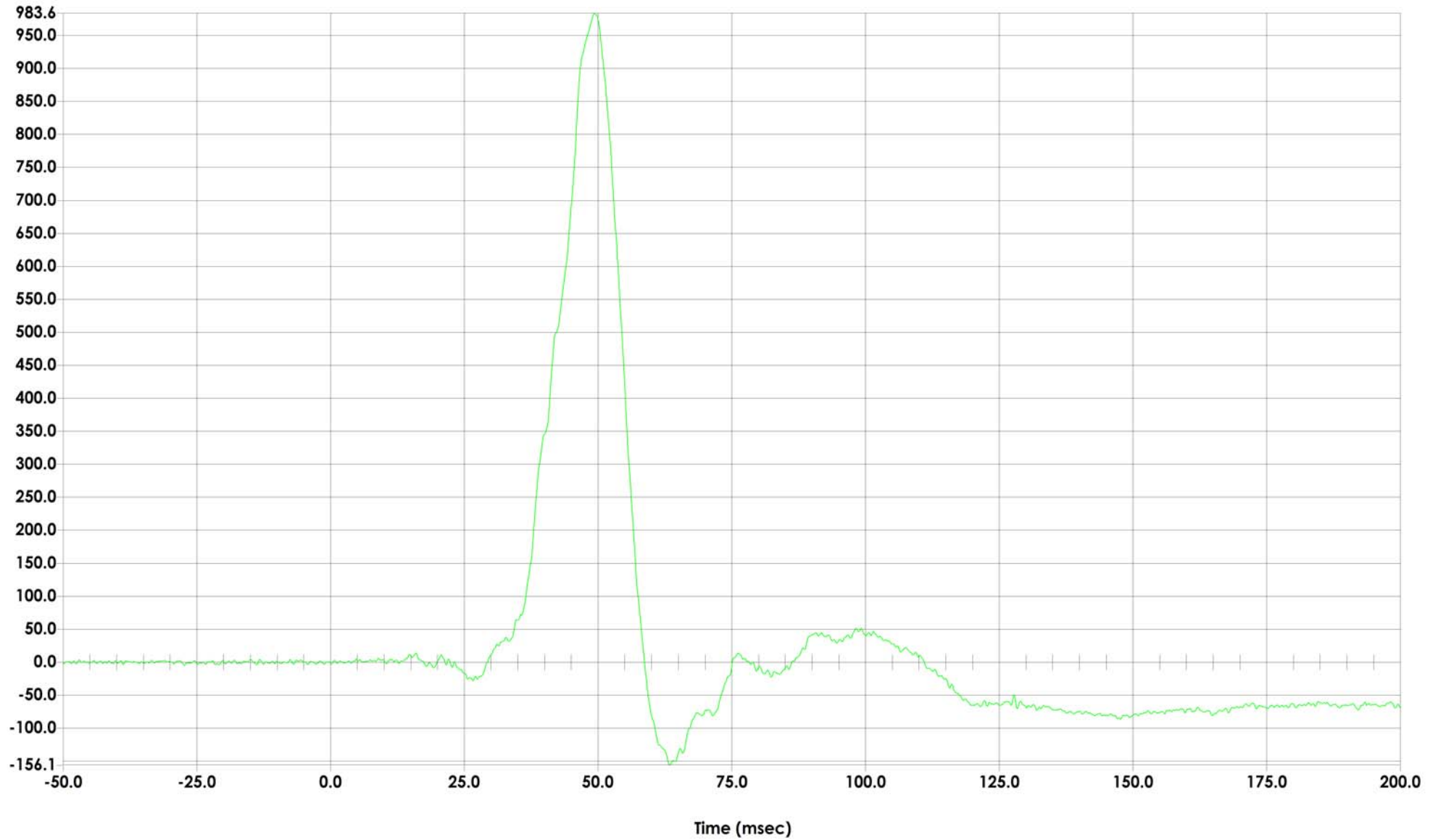


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC600
Plot number	015
Units	NWT

Max	983.65	NWT
	49.28	msec
Min	-156.12	NWT
	63.36	msec



Iliac Wing Force on Impact Side (Y) vs. Time

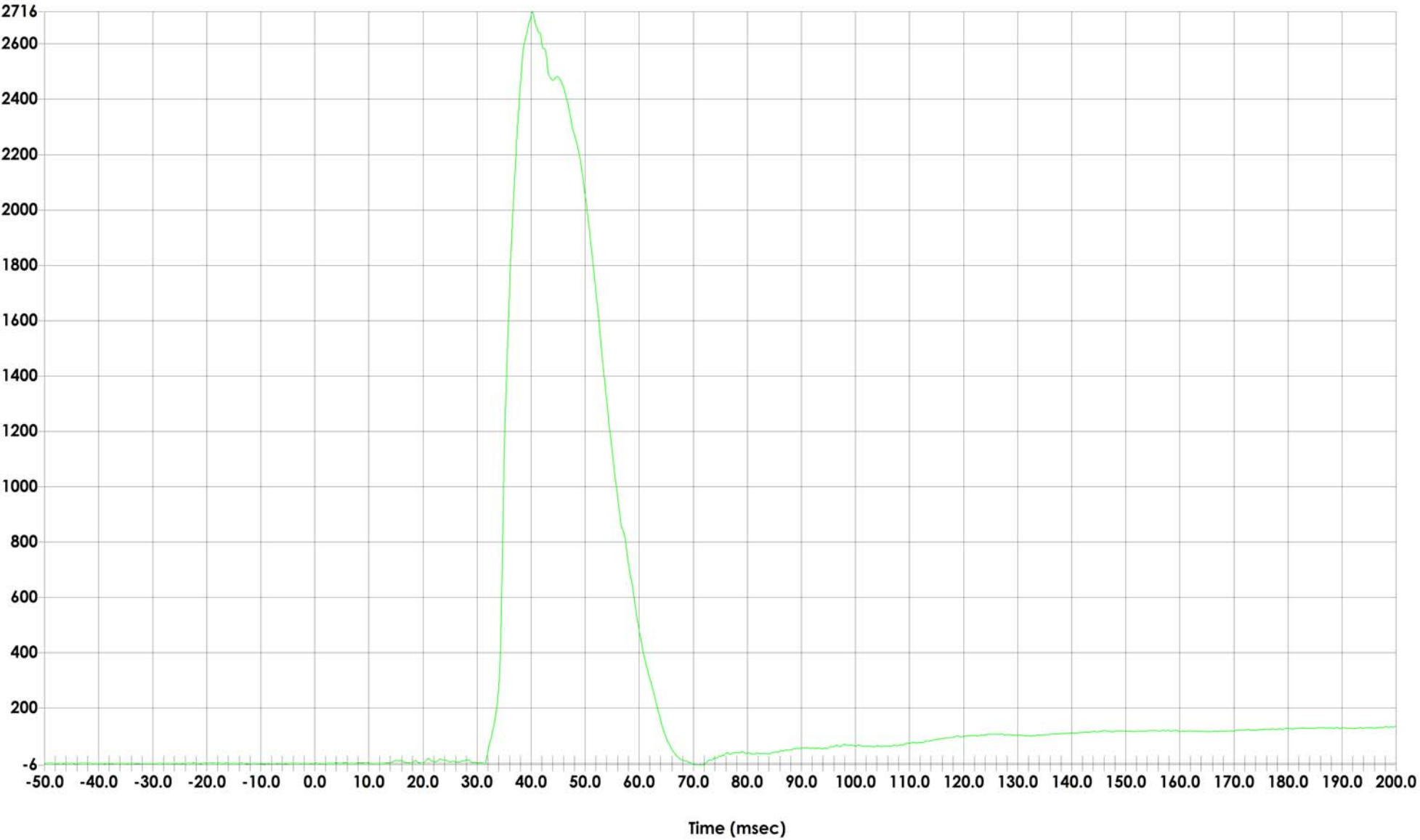


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC600
Plot number	016
Units	NWT

Max	2716.10	NWT
	40.24	msec
Min	-5.59	NWT
	70.64	msec



Acetabulum Force on Impact Side (Y) vs. Time

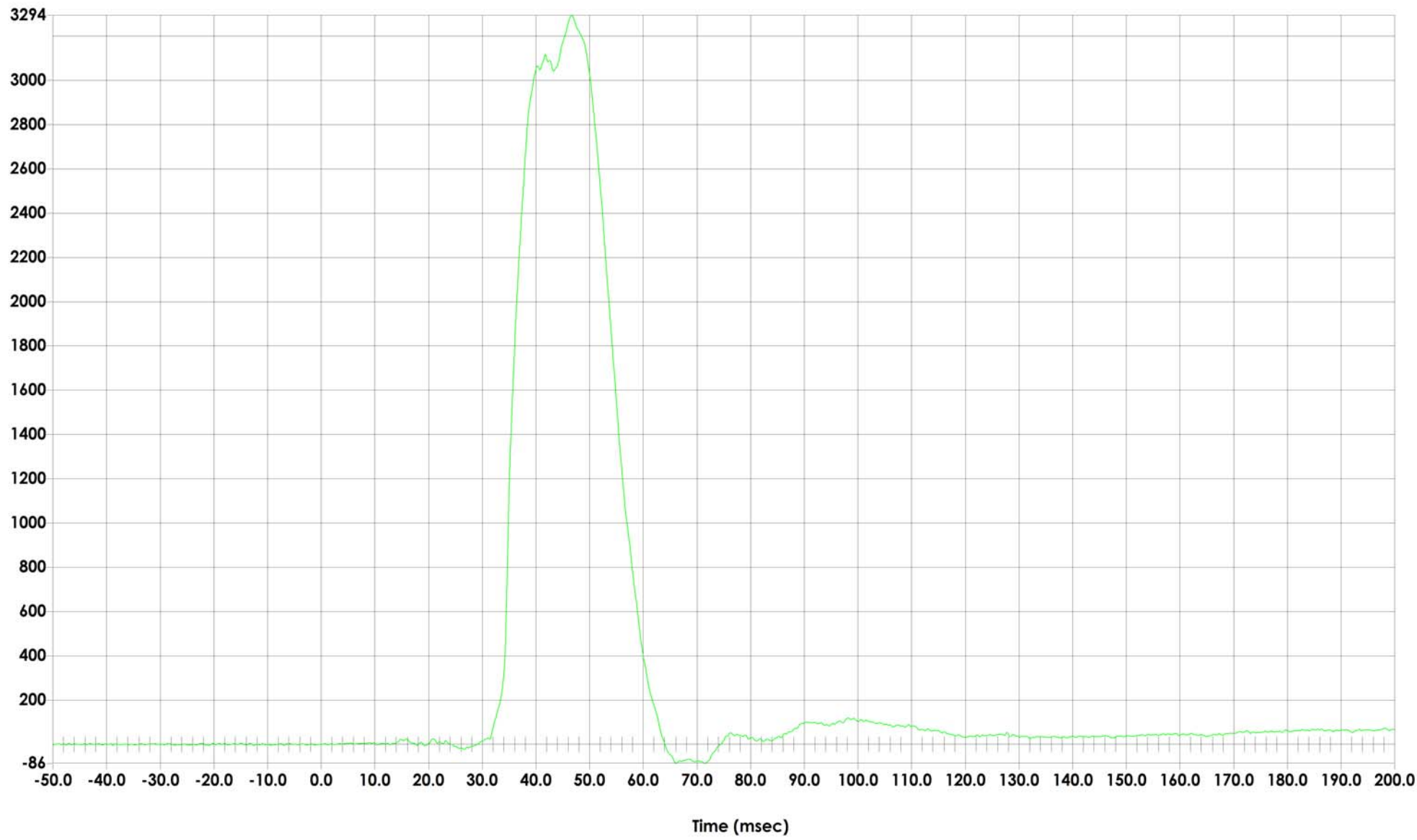


Test ID	M20140305
Sampling Rate (Hz)	12500
Filter	CFC600
Plot number	037
Units	NWT

Max	3294.08	NWT
	46.72	msec
Min	-86.28	NWT
	71.44	msec



Driver Total Pelvis Force on Impact Side (Y) vs. Time



APPENDIX C
DUMMY CONFIGURATION AND PERFORMANCE DATA

TABLE 1
EXTERNAL MEASUREMENTS

SIDIIs Serial Number	301	Test Sequences		2 & 3	
TEST PARAMETER	SPEC.	PRE		POST	
Date	-	11-19-13		11-27-13	
Sequential Test Number	-	2		3	
		Result	Pass/Fail	Result	Pass/Fail
Temperature (°C)	20.6-22.2	20.9	Pass	21.0	Pass
Relative Humidity (%)	10-70	29.8	Pass	19.5	Pass
Sitting Height	772 – 788	773	Pass	775	Pass
Shoulder Pivot Height	437 – 453	450	Pass	445	Pass
H-Point Height	79 – 89	85	Pass	87	Pass
H-Point from Seat Back	141 – 151	148	Pass	150	Pass
Shoulder Pivot from Backline	97 – 107	101	Pass	100	Pass
Thigh Clearance	119 – 135	124	Pass	125	Pass
Head Breadth	140 – 148	142	Pass	142	Pass
Head Back from Backline	40 – 46	42	Pass	43	Pass
Head Depth	178 – 188	184	Pass	182	Pass
Head Circumference	541 – 551	543	Pass	542	Pass
Buttock to Knee Length	514 – 540	520	Pass	523	Pass
Popliteal Height	343 – 369	353	Pass	352	Pass
Knee Pivot to Floor Height	392 – 409	405	Pass	405	Pass
Buttock Popliteal Length	416 – 442	431	Pass	430	Pass
Chest Depth w/o Jacket	195 – 211	208	Pass	208	Pass
Foot Length	216 – 232	226	Pass	226	Pass
Hip Breadth	313 – 323	320	Pass	321	Pass
Arm Length	249 – 259	251	Pass	255	Pass
Knee Joint to Seat Back	477 – 493	490	Pass	490	Pass
Shoulder Width	341 – 357	348	Pass	347	Pass
Foot Width	78 – 94	88	Pass	88	Pass
Chest Circumference w/Jacket	851 – 881	860	Pass	861	Pass
Waist Circumference	761 – 791	770	Pass	772	Pass

TABLE 2
HEAD DROP TEST

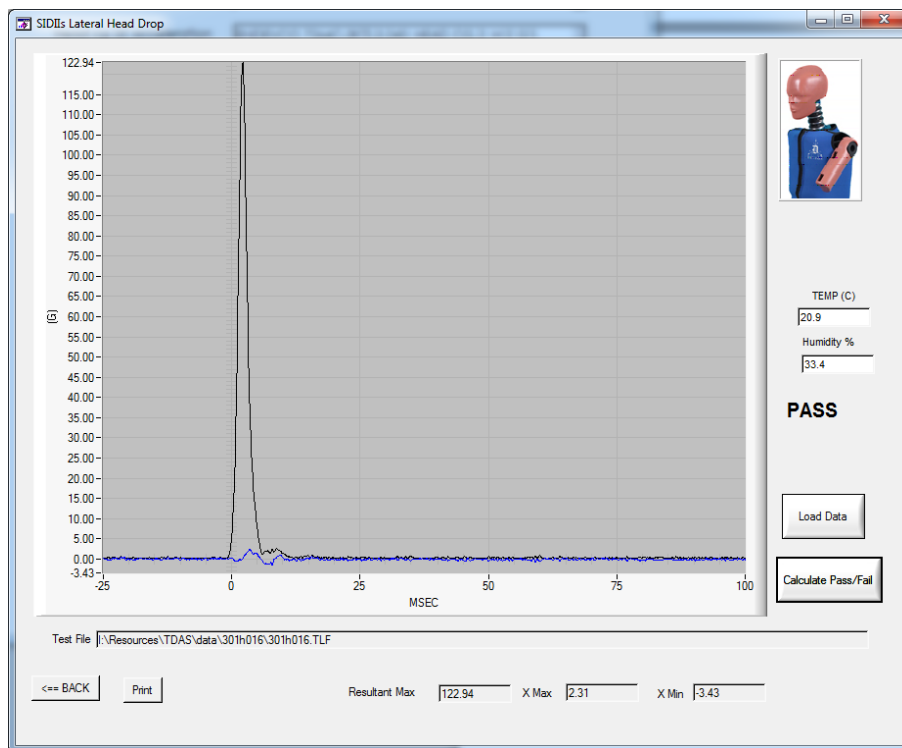
SIDIIs Serial Number 301

Test Sequences 2 & 3

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	11-16-13		11-26-13	
Sequential Test Number		-	2		3	
			Result	Pass/Fail	Result	Pass/Fail
Head Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	20.9	Pass	21.8	Pass
	Min		20.6	Pass	20.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	33.4	Pass	23.1	Pass
	Min		30.5	Pass	22.3	Pass
Temperature – During Test (°C)		20.6-22.2	20.9	Pass	21.8	Pass
Humidity – During Test (%)		10-70	33.4	Pass	23.1	Pass
Peak Head Resultant Acceleration (G)		115-137	123.0	Pass	119.3	Pass
Peak Head X Acceleration (G)		<15	2.3	Pass	2.9	Pass
Unimodal (Oscillation) (Yes/No)		<15%	-	Yes	-	Yes

TABLE 2
HEAD DROP TEST (CONTINUED)

PRE-TEST



POST-TEST

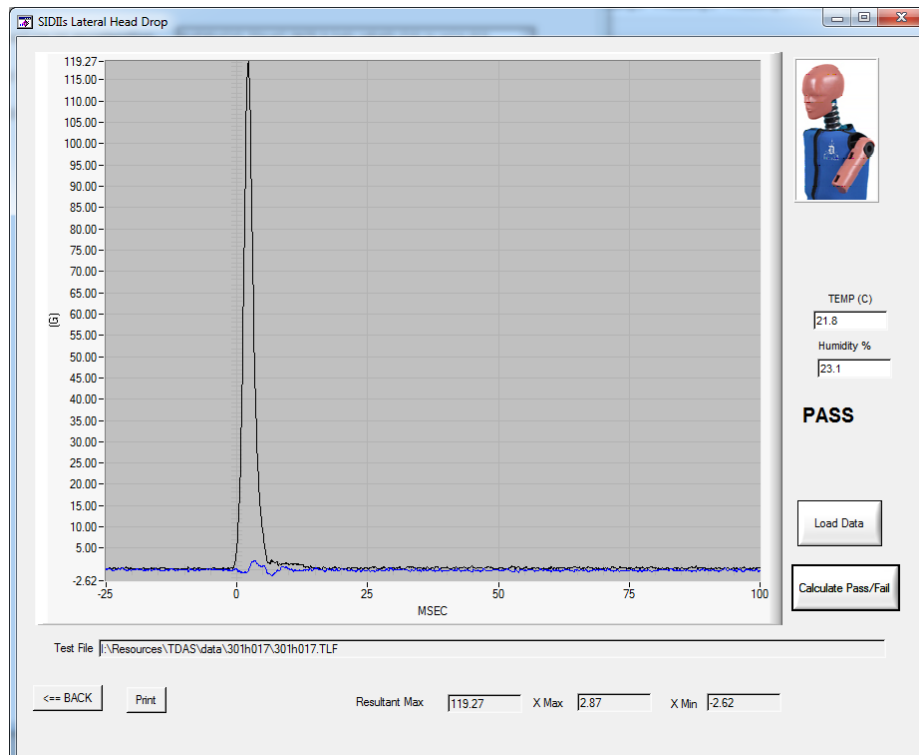


TABLE 3
LATERAL NECK PENDULUM TEST

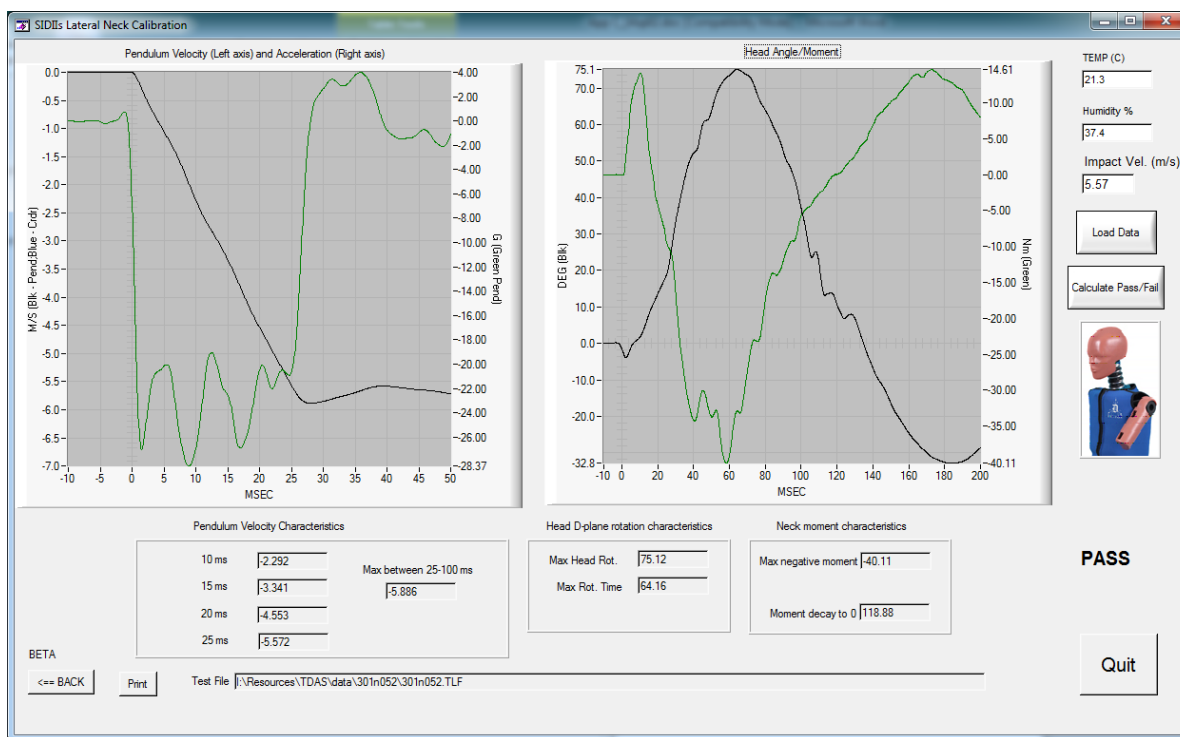
SIDIIs Serial Number 301

Test Sequences 2 & 3

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	11-18-13		11-26-13	
Sequential Test Number		-	2		3	
			Result	Pass/Fail	Result	Pass/Fail
Neck Assembly Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	20.8	Pass	21.7	Pass
	Min		20.6	Pass	20.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	34.8	Pass	23.7	Pass
	Min		29.1	Pass	22.3	Pass
Temperature – During Test (°C)		20.6-22.2	20.8	Pass	21.7	Pass
Humidity – During Test (%)		10-70	34.8	Pass	23.7	Pass
Pendulum Velocity (m/s)		5.51-5.63	5.58	Pass	5.58	Pass
Pendulum Deceleration (G)	10 ms	2.20-2.80	2.3	Pass	2.3	Pass
	15 ms	3.30-4.10	3.3	Pass	3.3	Pass
	20 ms	4.40-5.40	4.6	Pass	4.5	Pass
	25 ms	5.40-6.10	5.6	Pass	5.5	Pass
	25-100 ms	5.50-6.20	5.9	Pass	5.9	Pass
Maximum D-Plane rotation (deg)		71-81	75.1	Pass	76.0	Pass
Time of Maximum D-Plane Rotation (ms)		50-70	64.2	Pass	65.6	Pass
Peak Occ. Condyle Moment (Nm)		36-44	40.1	Pass	39.2	Pass
Time of Moment Decay (ms)		102-126	118.9	Pass	117.8	Pass

TABLE 3
LATERAL NECK PENDULUM TEST (CONTINUED)

PRE-TEST



POST-TEST

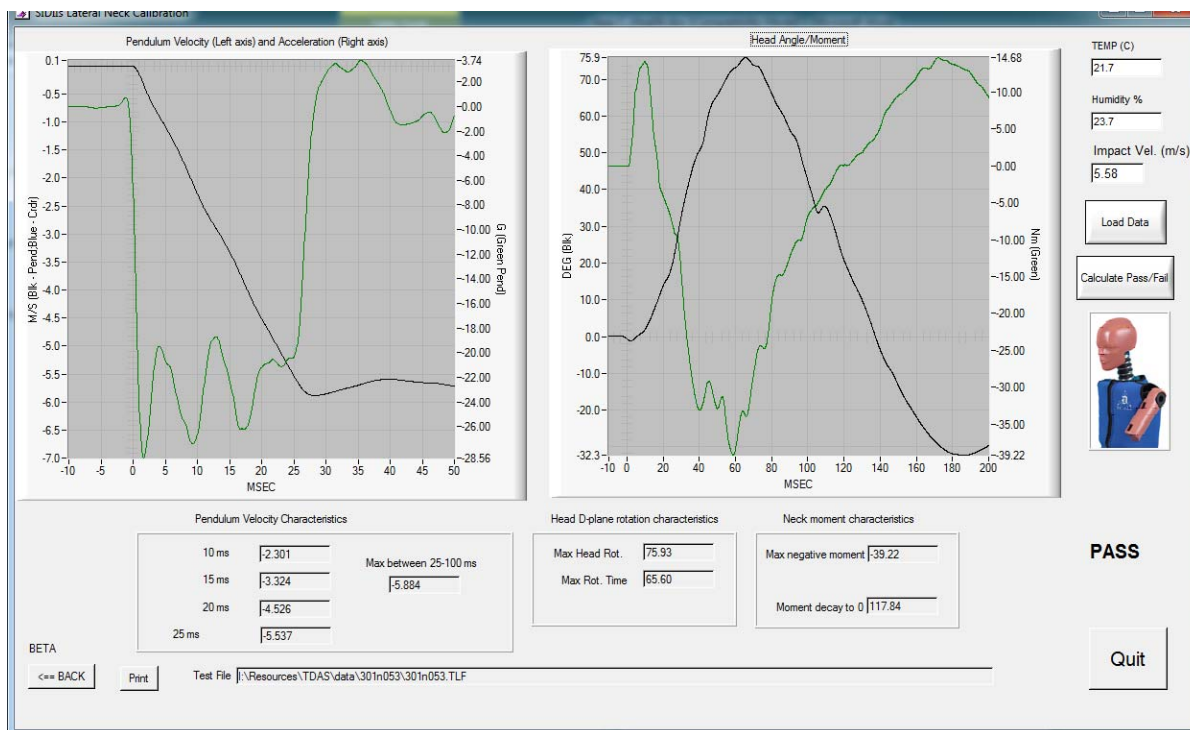


TABLE 4
SHOULDER IMPACT TEST

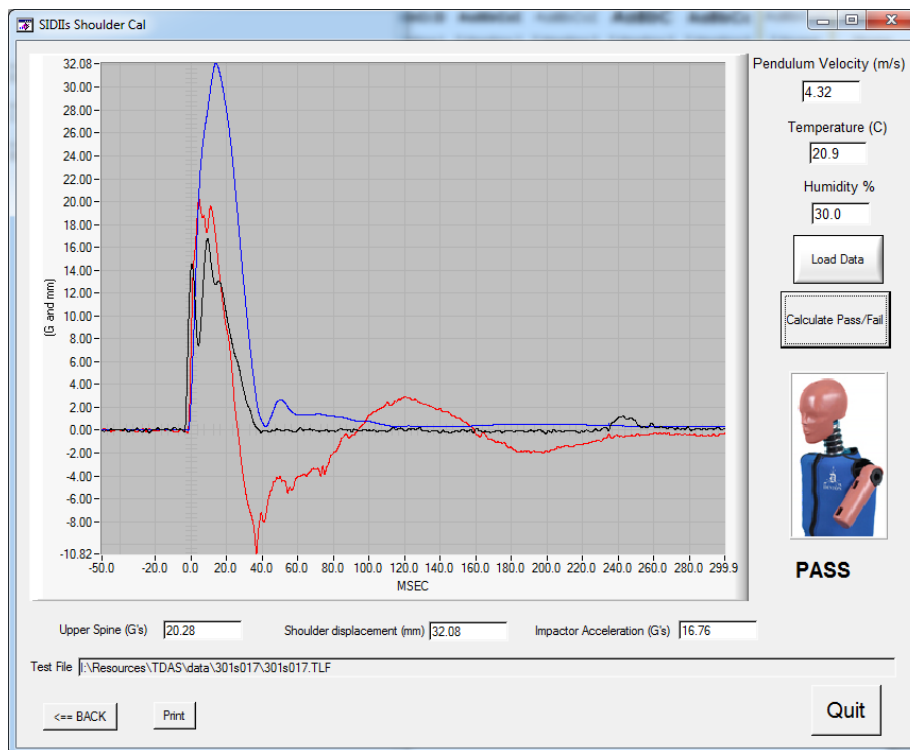
SIDIIs Serial Number 301

Test Sequences 2 & 3

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	11-19-13		11-26-13	
Sequential Test Number		-	2		3	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	20.9	Pass	21.5	Pass
	Min		20.6	Pass	20.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	30.0	Pass	23.2	Pass
	Min		28.6	Pass	22.3	Pass
Temperature – During Test (°C)		20.6-22.2	20.9	Pass	21.5	Pass
Relative Humidity – During Test (%)		10-70	30.0	Pass	23.2	Pass
Impactor Velocity (m/s)		4.2-4.4	4.32	Pass	4.32	Pass
Peak Shoulder Deflection (mm)		28-37	32.1	Pass	30.6	Pass
Peak Lateral Spine (T1) Acceleration Y (G)		17-22	20.3	Pass	19.9	Pass
Peak Impactor Acceleration (G)		13-18	16.8	Pass	15.3	Pass

TABLE 4
SHOULDER IMPACT TEST (CONTINUED)

PRE-TEST



POST-TEST

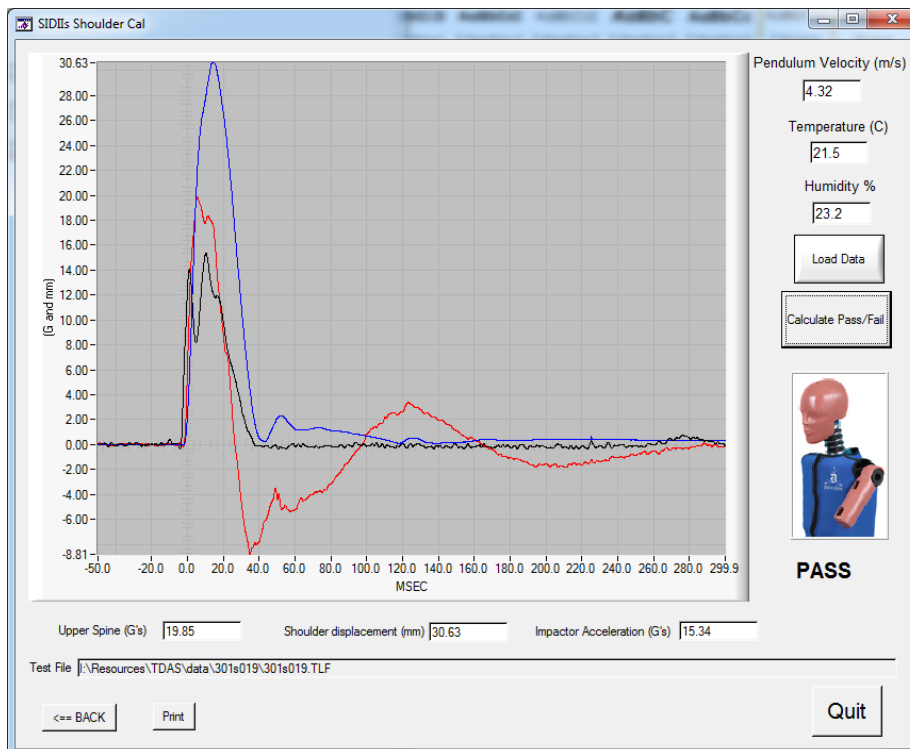


TABLE 5
THORAX (WITH ARM) IMPACT TEST

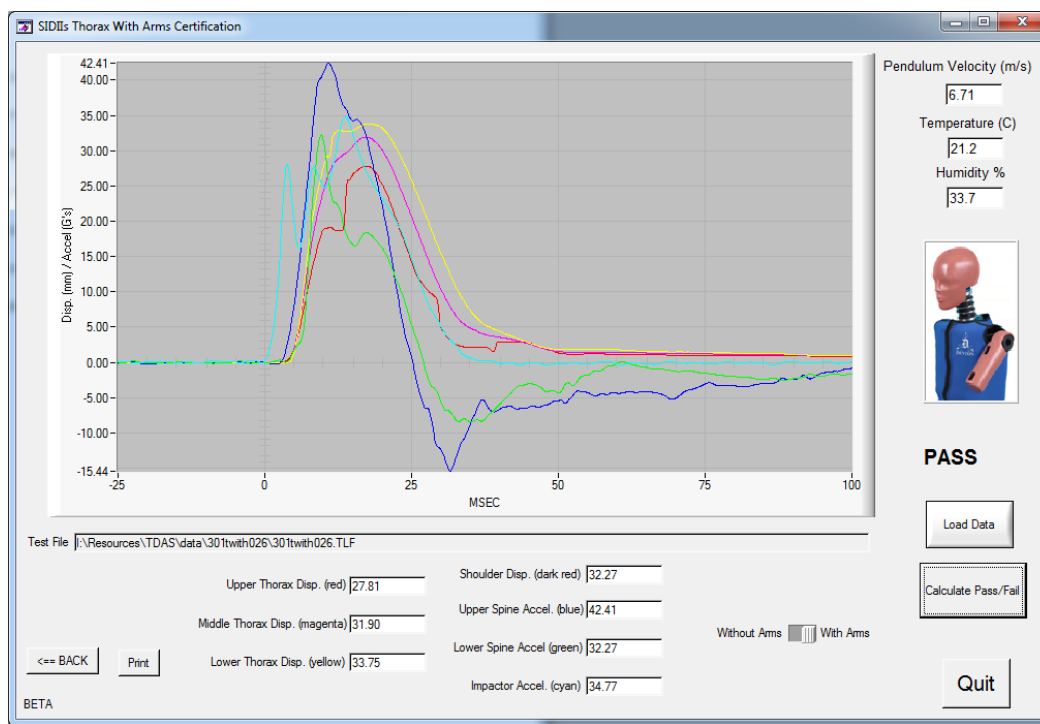
SIDIIs Serial Number 301

Test Sequences 2 & 3

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	11-19-13		11-26-13	
Sequential Test Number		-	2		3	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	21.2	Pass	21.7	Pass
	Min		20.8	Pass	20.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	33.7	Pass	23.1	Pass
	Min		30.5	Pass	22.3	Pass
Temperature – During Test (°C)		20.6-22.2	21.2	Pass	21.7	Pass
Relative Humidity – During Test (%)		10-70	33.7	Pass	23.1	Pass
Impactor Velocity (m/s)		6.6-6.8	6.7	Pass	6.75	Pass
Peak Shoulder Deflection (mm)		31-40	32.3	Pass	33.5	Pass
Peak Upper Rib Deflection (mm)		25-32	27.8	Pass	28.9	Pass
Peak Middle Rib Deflection (mm)		30-36	31.9	Pass	32.7	Pass
Peak Lower Rib Deflection (mm)		32-38	33.8	Pass	34.4	Pass
Peak Upper Spine (T1) Acceleration Y (G)		34-43	42.4	Pass	39.0	Pass
Peak Lower Spine (T12) Acceleration Y (G)		29-37	32.3	Pass	33.5	Pass
Peak Impactor Acceleration (G)		30-36	34.8	Pass	33.3	Pass

TABLE 5
THORAX (WITH ARM) IMPACT TEST (CONTINUED)

PRE-TEST



POST-TEST

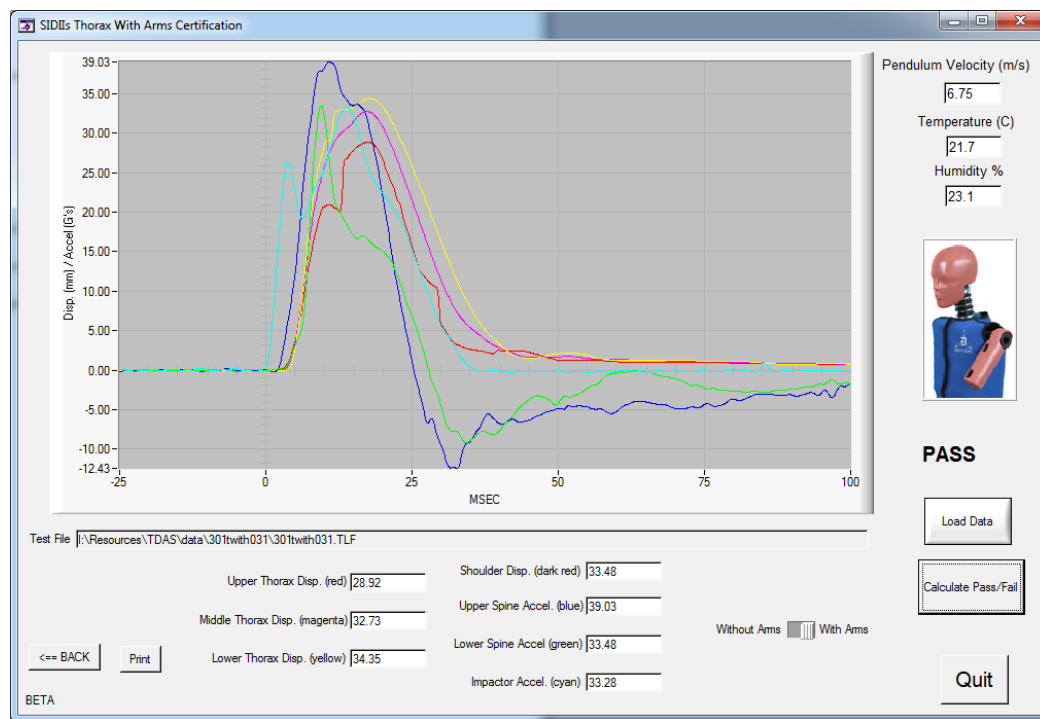


TABLE 6
THORAX (WITHOUT ARM) IMPACT TEST

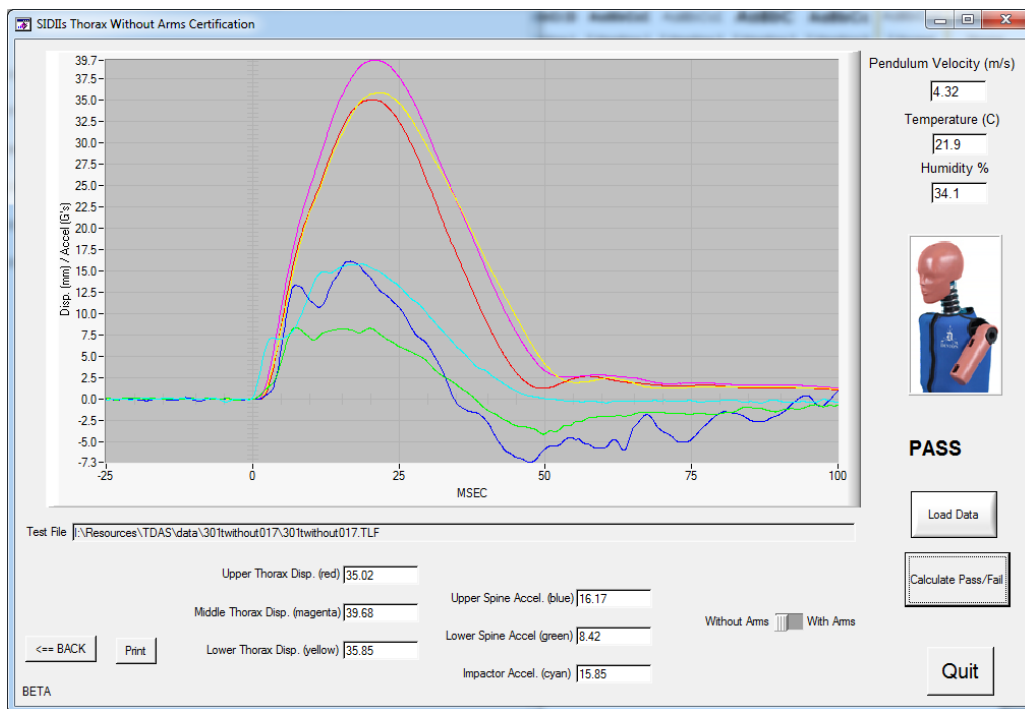
SIDIIs Serial Number 301

Test Sequences 2 & 3

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	11-19-13		11-26-13	
Sequential Test Number		-	2		3	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	22.0	Pass	21.5	Pass
	Min		21.2	Pass	20.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	33.6	Pass	23.2	Pass
	Min		31.2	Pass	22.3	Pass
Temperature – During Test (°C)		20.6-22.2	22.0	Pass	21.5	Pass
Relative Humidity – During Test (%)		10-70	33.6	Pass	23.2	Pass
Impactor Velocity (m/s)		4.2-4.4	4.32	Pass	4.32	Pass
Peak Upper Rib Deflection (mm)		32-40	35.0	Pass	34.6	Pass
Peak Middle Rib Deflection (mm)		39-45	39.7	Pass	41.1	Pass
Peak Lower Rib Deflection (mm)		35-43	35.9	Pass	39.9	Pass
Peak Upper Spine (T1) Acceleration Y (G)		13-17	16.2	Pass	15.3	Pass
Peak Lower Spine (T12) Acceleration Y (G)		7-11	8.4	Pass	9.6	Pass
Peak Impactor Acceleration (G)		14-18	15.9	Pass	15.9	Pass

TABLE 6
THORAX (WITHOUT ARM) IMPACT TEST (CONTINUED)

PRE-TEST



POST-TEST

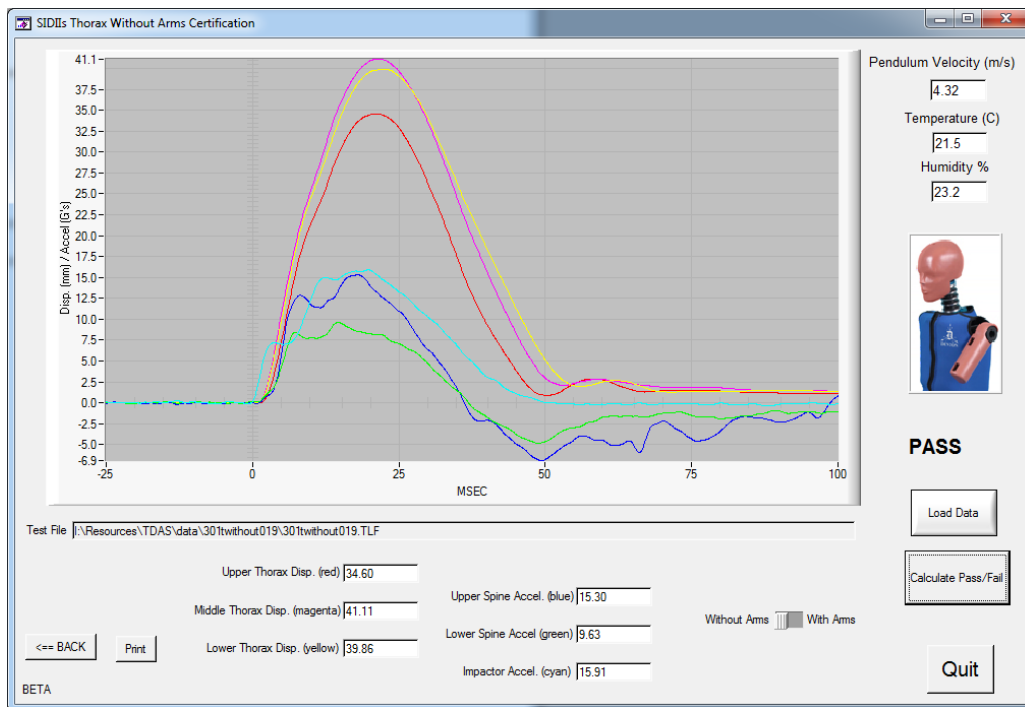


TABLE 7
ABDOMEN IMPACT TEST

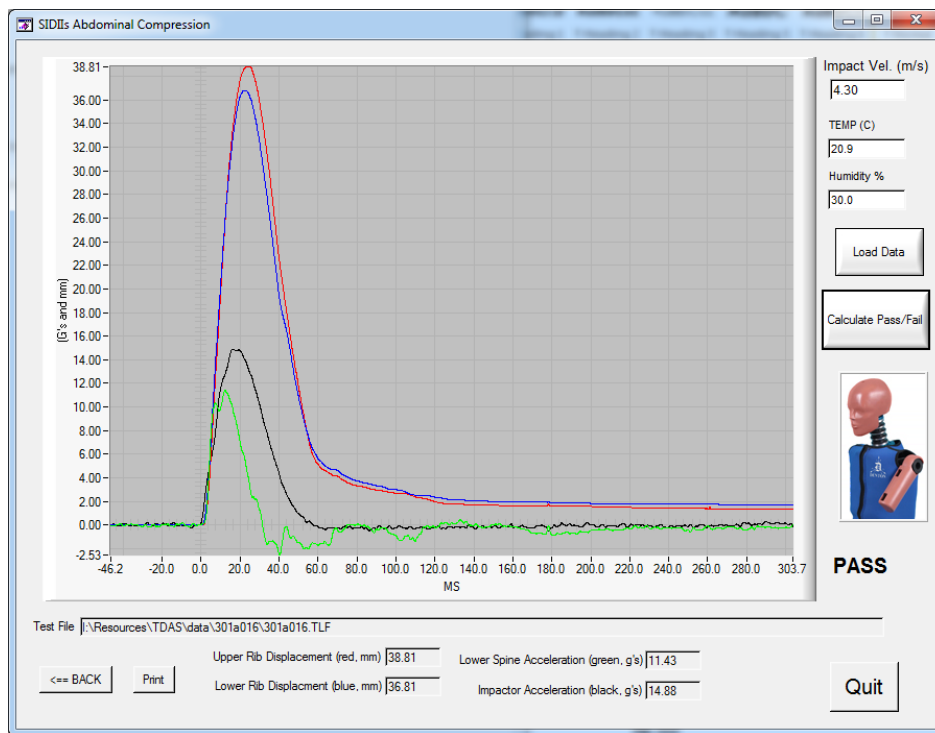
SIDIIs Serial Number 301

Test Sequences 2 & 3

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	11-19-13		11-26-13	
Sequential Test Number		-	2		3	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	20.9	Pass	21.5	Pass
	Min		20.6	Pass	20.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	30.0	Pass	23.2	Pass
	Min		29.1	Pass	22.3	Pass
Temperature – During Test (°C)		20.6-22.2	20.9	Pass	21.5	Pass
Relative Humidity – During Test (%)		10-70	30.0	Pass	23.2	Pass
Impactor Velocity (m/s)		4.2-4.4	4.3	Pass	4.3	Pass
Peak Upper Abdominal Rib Deflection (mm)		36-47	38.8	Pass	37.8	Pass
Peak Lower Abdominal Rib Deflection (mm)		33-44	36.8	Pass	37.6	Pass
Peak Lower Spine (T12) Acceleration Y (G)		9-14	11.4	Pass	11.2	Pass
Peak Impactor Acceleration (G)		12-16	14.9	Pass	14.3	Pass

TABLE 7
ABDOMEN IMPACT TEST (CONTINUED)

PRE-TEST



POST-TEST

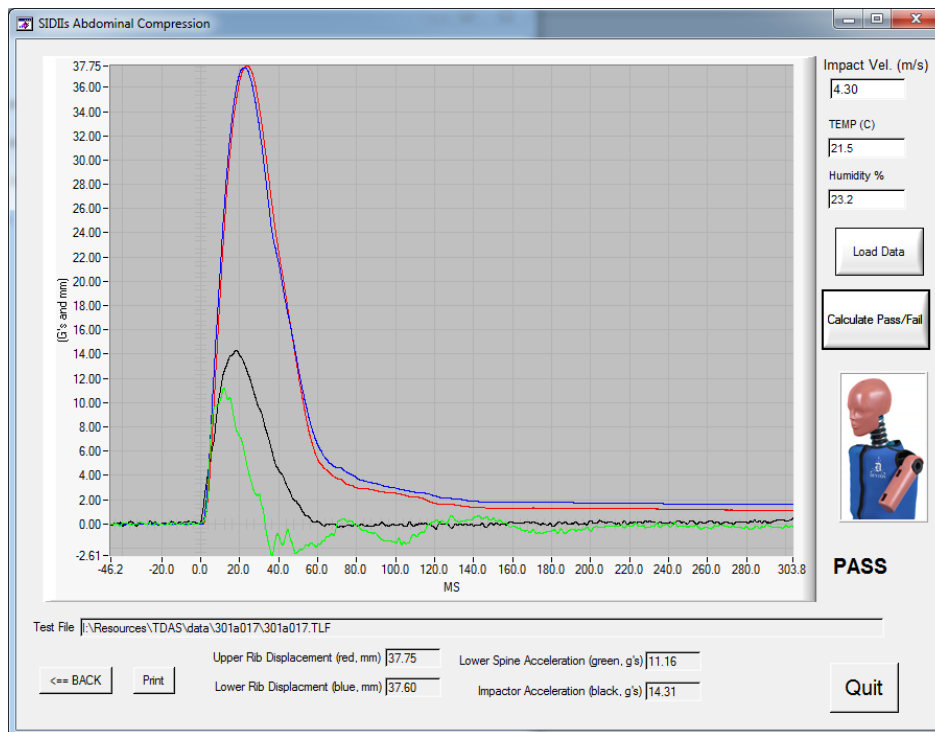
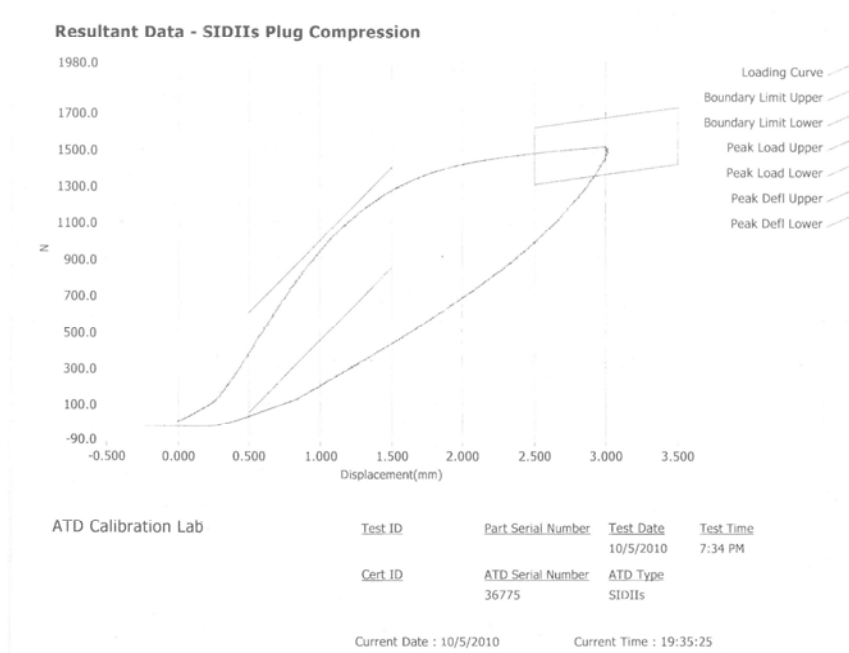


TABLE 8
PELVIS PLUG QUASI-STATIC TEST
PRE-TEST



POST-TEST

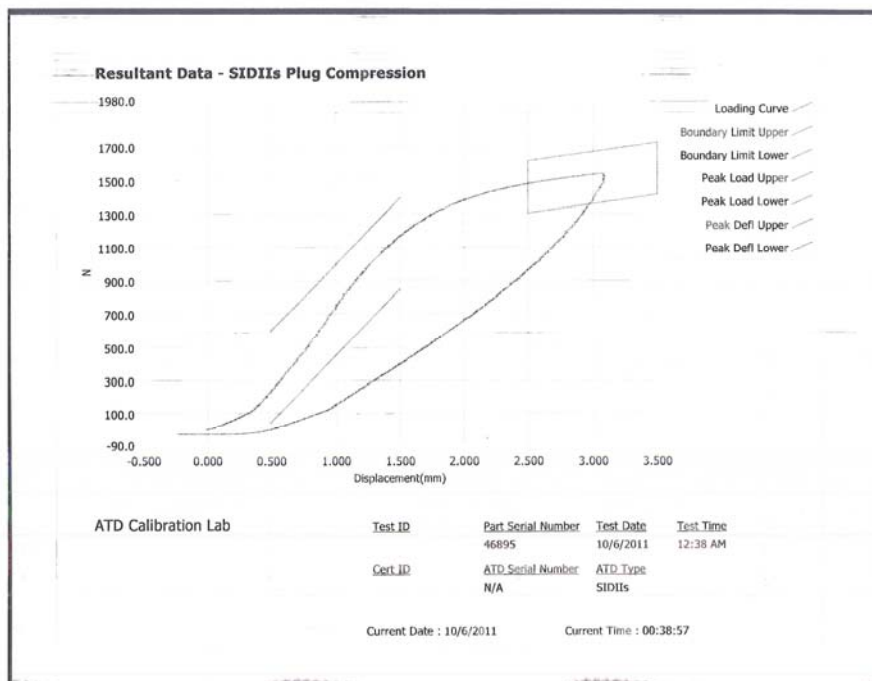


TABLE 9
PELVIS ACETABULUM IMPACT TEST

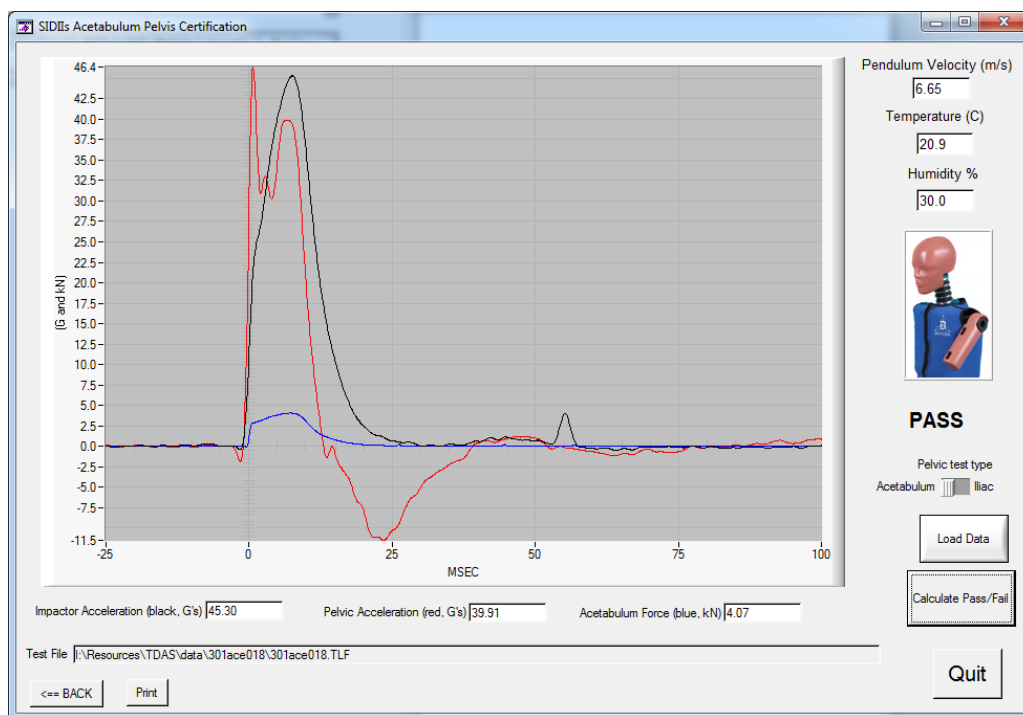
SiDIIs Serial Number 301

Test Sequences 2 & 3

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	11-19-13		11-26-13	
Sequential Test Number		-	2		3	
			Result	Pass/Fail	Results	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	20.9	Pass	21.5	Pass
	Min		20.6	Pass	20.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	30.0	Pass	23.2	Pass
	Min		28.4	Pass	22.3	Pass
Temperature – During Test (°C)		20.6-22.2	20.9	Pass	21.5	Pass
Humidity – During Test (%)		10-70	30.0	Pass	23.2	Pass
Impactor Velocity (m/s)		6.6-6.8	6.65	Pass	6.65	Pass
Peak Impactor Acceleration (G)		38-47	45.3	Pass	44.0	Pass
Pelvis Acceleration Y after 6ms (G)		34-42	40.0	Pass	40.4	Pass
Peak Acetabulum Force (kN)		3.60-4.30	4.1	Pass	4.0	Pass
Pelvis Plug Serial No. 36775 (Pre) No. 46895 (Post)						

TABLE 9
PELVIS ACETABULUM IMPACT TEST (CONTINUED)

PRE-TEST



POST-TEST

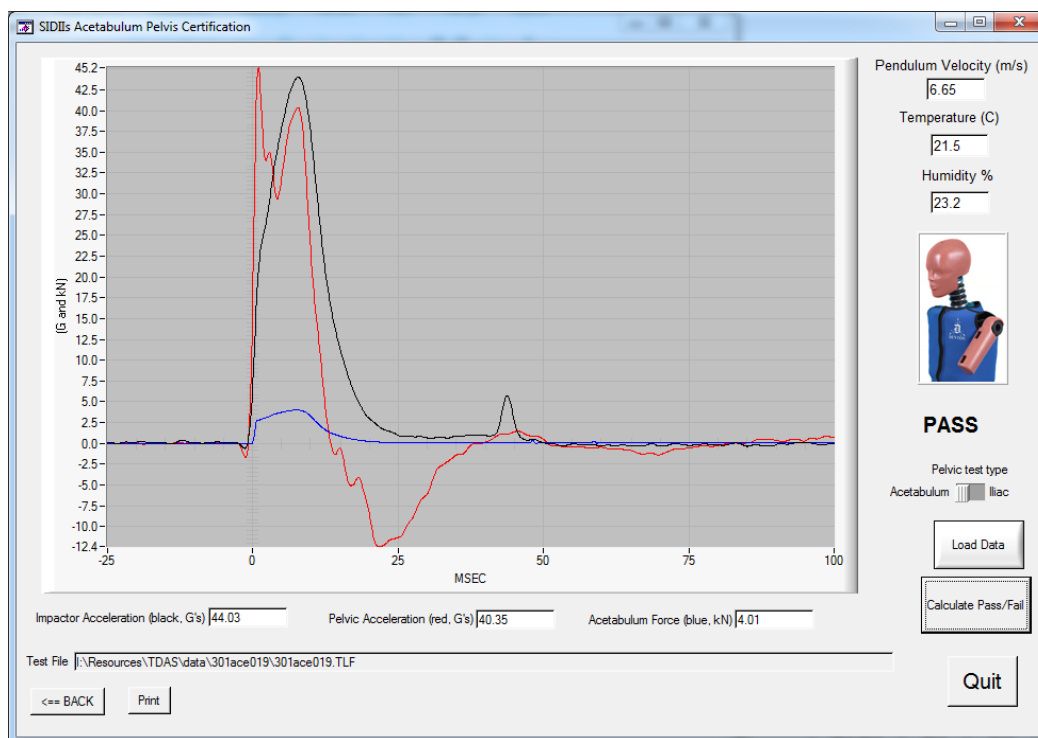


TABLE 10
PELVIS ILIAC IMPACT TEST

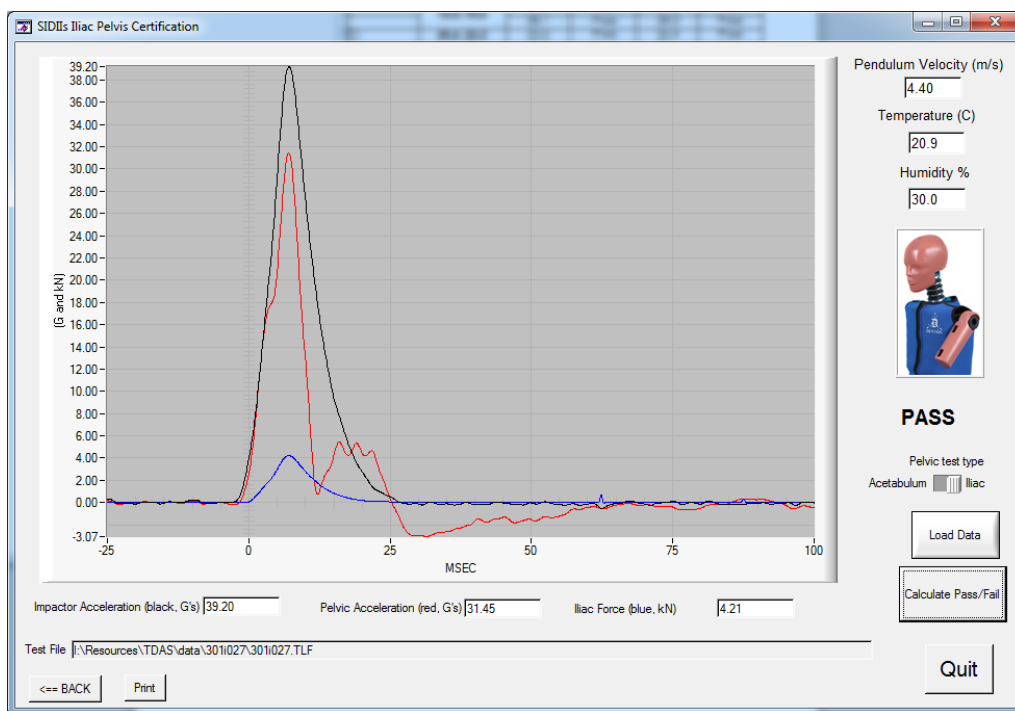
SIDIIs Serial Number 301

Test Sequences 2 & 3

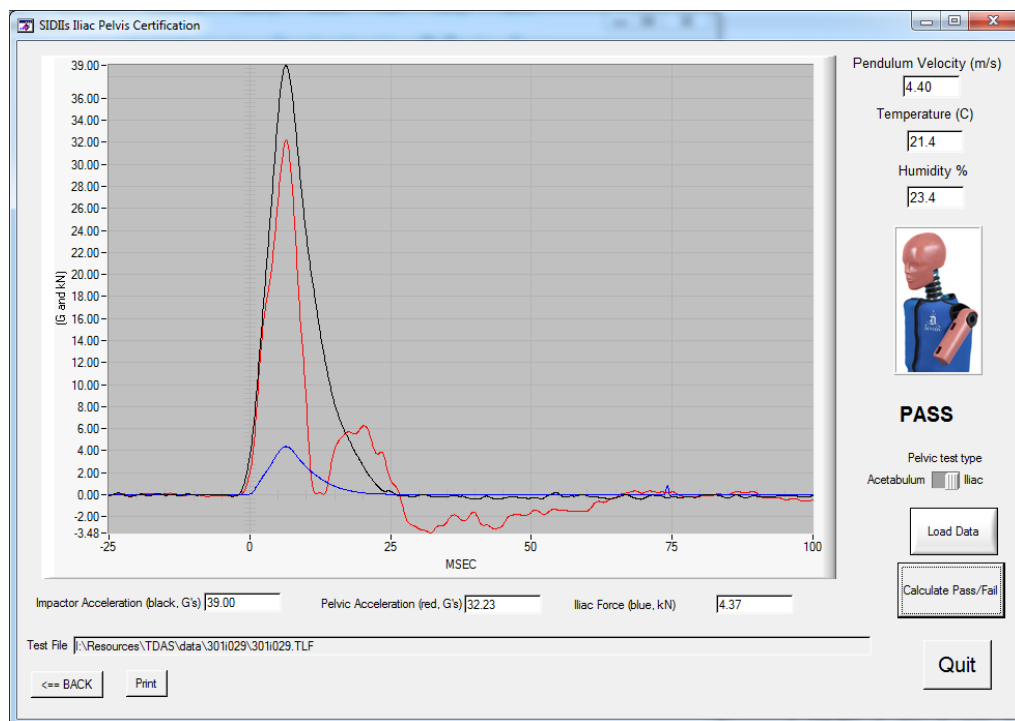
TEST PARAMETER		SPEC.	PRE		POST	
Date		-	11-19-13		11-26-13	
Sequential Test Number		-	2		3	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	20.9	Pass	21.4	Pass
	Min		20.7	Pass	20.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	30.0	Pass	23.4	Pass
	Min		28.3	Pass	22.3	Pass
Temperature – During Test (°C)		20.6-22.2	20.9	Pass	21.4	Pass
Humidity – During Test (%)		10-70	30.0	Pass	23.4	Pass
Pendulum Velocity (m/s)		4.2-4.4	4.4	Pass	4.4	Pass
Peak Impactor Acceleration (G)		36-46	39.2	Pass	39.0	Pass
Pelvis Acceleration Y (G)		29-39	31.5	Pass	32.2	Pass
Peak Iliac Force Y (N)		4.00-5.20	4.2	Pass	4.4	Pass
Pelvis Plug Serial No. 36775 (Pre) No. 46895 (Post)						

TABLE 10
PELVIS ILIAC IMPACT TEST (CONTINUED)

PRE-TEST



POST-TEST



Test Vehicle: 2014 Jeep Compass 5-Door MPV
Test Program: SPNCAP

NHTSA Number: M20140305
Test Date: November 21, 2013

APPENDIX D
TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION DATA

TABLE 1 - DUMMY INSTRUMENTATION						
				SID-IIs S/N: 301		
				Serial Number	Manufacturer	Calibration Date
Head Accelerometers			X	P24562	Endevco	25/APR/2013
			Y	P59121	Endevco	25/APR/2013
			Z	P21151	Endevco	25/APR/2013
			X _R	12095	Endevco	15/JUNE/2013
			Y _R	12116	Endevco	15/JUNE/2013
			Z _R	12100	Endevco	06/AUG/2013
Displacement Potentiometers	Thoracic Rib	Upper	Y	1142	FTSS	24/MAY/2013
		Middle	Y	014	Servo	24/MAY/2013
		Lower	Y	1155	FTSS	24/MAY/2013
	Abdominal Rib	Upper	Y	1205	FTSS	24/MAY/2013
		Lower	Y	1237	FTSS	03/MAY/2013
Lower Spine Accelerometers (T ₁₂)			X	P22230	Endevco	15/OCT/2013
			Y	P22315	Endevco	15/ OCT /2013
			Z	P14233	Endevco	15/ OCT /2013
Acetabulum Load Cell			Y	IF-520_DI4284	FTSS	07/MAY/2013
Iliac Wing Load Cell			Y	IF-507_115	FTSS	07/MAY/2013
Pelvis Plug (Struck-Side)				36518	FTSS	23/SEP/2013
Pelvis Plug (Non-Struck-Side)				36403	FTSS	23/SEP/2013

TABLE 2 - VEHICLE INSTRUMENTATION

		Serial Number	Manufacturer	Calibration Date
Vehicle Center of Gravity	X	P22993	Endevco	15/OCT/2013
Vehicle Center of Gravity	Y	P23020	Endevco	15/OCT/2013
Vehicle Center of Gravity	Z	P22965	Endevco	15/OCT/2013
Left Floor Sill	Y	A119075	MSI	05/ NOV/2013
A-Pillar Sill	Y	A119393	MSI	05/ NOV/2013
A-Pillar Low	Y	A119077	MSI	15/ NOV/2013
A-Pillar Mid	Y	A011644	MSI	15/ NOV/2013
B-Pillar Sill	Y	A119079	MSI	15/ NOV/2013
B-Pillar Low	Y	A086989	MSI	30/NOV/2013
B-Pillar Mid	Y	98H14-F53	Endevco	13/MAR /2013
Driver Seat	Y	04A04A07-J13	Endevco	15/OCT/2013
Engine Top	X	P12746	Endevco	15/OCT/2013
Engine Top	Y	P13835	Endevco	15/OCT/2013
Firewall	Y	A007227	MSI	15/OCT/2013
Right Roof	Y	J44021	Endevco	28/MAY/2013
Right Floor Sill	Y	A119076	MSI	05/ NOV/2013
Rear Floorpan	X	12111	Endevco	15/OCT/2013
Rear Floorpan	Y	12096	Endevco	15/OCT/2013

TABLE 3 - POLE INSTRUMENTATION

		Serial Number	Manufacturer	Calibration Date
Load Cell 1	Y	332420	Interface	03/SEPT/2013
Load Cell 2	Y	332407	Interface	03/SEPT/2013
Load Cell 3	Y	332400	Interface	03/SEPT/2013
Load Cell 4	Y	352865	Interface	03/SEPT/2013
Load Cell 5	Y	332403	Interface	03/SEPT/2013
Load Cell 6	Y	330824	Interface	03/SEPT/2013
Load Cell 7	Y	334238	Interface	03/SEPT/2013
Load Cell 8	Y	330834	Interface	03/SEPT/2013