

REPORT NUMBER: SideNCAPMDB-MGA-26-002

**NEW CAR ASSESSMENT PROGRAM (NCAP)
Moving Deformable Barrier Side Impact Test**

**HONDA DEVELOPMENT & MANUFACTURING OF AMERICA, LLC
2026 Honda Passport RTL AWD 5-Door SUV
NHTSA No.: O20265300**

**MGA RESEARCH CORPORATION
5000 Warren Road
Burlington, WI 53105**



Test Date: October 17, 2025

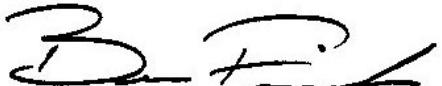
Final Report Date: July 23, 2026

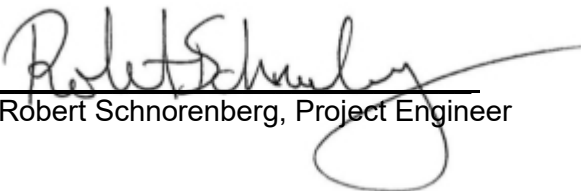
FINAL REPORT

**U.S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Office of Crashworthiness Standards
Mail Code: NRM-100
1200 New Jersey Ave, SE
Washington, DC 20590**

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Approval Date: July 23, 2026

FINAL REPORT ACCEPTANCE BY OCWS:

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

Date: _____

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

Date: _____

TECHNICAL REPORT DOCUMENTATION PAGE

1. Report No. SideNCAPMDB-MGA-26-002	2. Government Accession No.	3. Recipient's Catalog No.																																																					
4. Title and Subtitle Final Report of New Car Assessment Program Side Impact MDB Testing of 2026 Honda Passport RTL AWD 5-Door SUV, NHTSA No.: O20265300		5. Report Date July 23, 2026																																																					
		6. Performing Organization Code MGA																																																					
7. Author(s) Ben Fischer, Program Manager		8. Performing Organization Report No. SideNCAPMDB-MGA-26-002																																																					
9. Performing Organization Name and Address MGA Research Corporation 5000 Warren Road Burlington, WI 53105		10. Work Unit No.																																																					
		11. Contract or Grant No. 693JJ920D000017																																																					
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Office of Crashworthiness Standards (NRM-100) 1200 New Jersey Ave, SE Washington, D.C. 20590		13. Type of Report and Period Covered: Final Test Report October 17, 2025 to July 23, 2026																																																					
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15. Supplementary Notes																																																							
16. Abstract A 55/28 km/h 90° Moving Deformable Barrier NCAP Side Impact Test was conducted on the subject 2026 Honda Passport RTL AWD 5-Door SUV in accordance with the specifications of the Office of Crashworthiness Standards Side NCAP MDB Test Procedure for the generation of consumer information on vehicle side crash protection. The test was conducted at the MGA Research Corporation facility in Burlington, Wisconsin on October 17, 2025. The impact velocity of the Moving Deformable Barrier (MDB) was 62.19 km/h, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 22.1°C. The target vehicle post-test maximum crush was 165 mm at level 3. The test vehicle's performance was as follows: <table border="1"> <thead> <tr> <th rowspan="2">Measurement Description</th> <th rowspan="2">Units</th> <th colspan="2">Driver ATD (ES-2re)</th> </tr> <tr> <th>Threshold</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC₃₆)</td> <td></td> <td>1000</td> <td>30.858</td> </tr> <tr> <td>Maximum Thorax Rib Deflection</td> <td>mm</td> <td>44</td> <td>14.655</td> </tr> <tr> <td>Total Abdominal Force</td> <td>N</td> <td>2500</td> <td>281.166</td> </tr> <tr> <td>Pubic Symphysis Force</td> <td>N</td> <td>6000</td> <td>1189.776</td> </tr> <tr> <td>Resultant Lower Spine Acceleration</td> <td>g</td> <td>82*</td> <td>14.134</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Measurement Description</th> <th rowspan="2">Units</th> <th colspan="2">Passenger ATD (SID-IIs)</th> </tr> <tr> <th>Threshold</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC₃₆)</td> <td></td> <td>1000</td> <td>94.759</td> </tr> <tr> <td>Resultant Lower Spine Acceleration</td> <td>g</td> <td>82</td> <td>40.903</td> </tr> <tr> <td>Total Pelvic Force (sum of acetabular and iliac forces)</td> <td>N</td> <td>5525</td> <td>2067.007</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td>mm</td> <td>38*</td> <td>13.259</td> </tr> <tr> <td>Maximum Abdomen Rib Deflection</td> <td>mm</td> <td>45*</td> <td>8.157</td> </tr> </tbody> </table> *Proposed IARV The left rear passenger door separated from the body at the door latch. The gap was measured to be 70 mm post-test. The opposite door(s) did not open during the side impact event.				Measurement Description	Units	Driver ATD (ES-2re)		Threshold	Result	Head Injury Criteria (HIC ₃₆)		1000	30.858	Maximum Thorax Rib Deflection	mm	44	14.655	Total Abdominal Force	N	2500	281.166	Pubic Symphysis Force	N	6000	1189.776	Resultant Lower Spine Acceleration	g	82*	14.134	Measurement Description	Units	Passenger ATD (SID-IIs)		Threshold	Result	Head Injury Criteria (HIC ₃₆)		1000	94.759	Resultant Lower Spine Acceleration	g	82	40.903	Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	2067.007	Maximum Thoracic Rib Deflection	mm	38*	13.259	Maximum Abdomen Rib Deflection	mm	45*	8.157
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19. Security Classification of Report Unclassified	20. Security Classification of Page Unclassified	21. No. of Pages 209	22. Price																																																				

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SECTION 1

PURPOSE AND SUMMARY OF TEST

PURPOSE

This moving deformable barrier side impact test is part of the MY 2026 New Car Assessment Program Side Impact Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under Contract No. 693JJ920D000017. The purpose of this test is to generate comparative side impact performance in a 2026 Honda Passport RTL AWD 5-Door SUV. The side impact test was conducted in accordance with the Office of Crashworthiness Standard's Side NCAP Laboratory Test Procedure dated March 2020.

SUMMARY

A 2026 Honda Passport RTL AWD 5-Door SUV was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 62.19 km/h. The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by MGA Research Corporation in Burlington, Wisconsin on October 17, 2025. Pre-test and post-test photographs of the test vehicle, the MDB, and the dummies (ES-2re and SID-IIs) are included in this report.

Dummies were placed in the driver and left rear designated seating positions according to instructions specified in the OCWS NCAP Side Laboratory Test Procedure dated March 2020. The side impact event was documented by eleven (11) cameras. Camera locations are included in this report.

The dummies were instrumented in the following manner:

DRIVER ATD (ES-2re)

- Primary and Redundant Head CG Triaxial Accelerometers
- Chest Upper Rib, Middle Rib, and Lower Rib Y-Axis Displacement Potentiometers
- Abdomen Forward, Middle, and Rear Y-Axis Load Cells
- Lower Spine (T12) Triaxial Accelerometers
- Pubic Symphysis Y-Axis Load Cell

PASSENGER ATD (SID-IIs)

- Primary and Redundant Head CG Triaxial Accelerometers
- Head Triaxial Angular Rate Sensors
- Chest Upper Rib, Middle Rib, and Lower Rib Y-Axis Displacement Potentiometers
- Abdomen Upper Rib and Lower Rib Y-Axis Displacement Potentiometers
- Lower Spine (T12) Triaxial Accelerometers
- Acetabulum and Iliac Wing Y-Axis Load Cells

Appendix B contains the 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.

Dummy Injury readings were recorded as follows:

DUMMY INJURY VALUES

Measurement Description	Units	Driver ATD (ES-2re)	
		Threshold	Result
Head Injury Criteria (HIC ₃₆)		1000	30.858
Maximum Thorax Rib Deflection	mm	44	14.655
Total Abdominal Force	N	2500	281.166
Pubic Symphysis Force	N	6000	1189.776
Resultant Lower Spine Acceleration	g	82*	14.134

Measurement Description	Units	Passenger ATD (SID-IIs)	
		Threshold	Result
Head Injury Criteria (HIC ₃₆)		1000	94.759
Resultant Lower Spine Acceleration	g	82	40.903
Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	2067.007
Maximum Thoracic Rib Deflection	mm	38*	13.259
Maximum Abdomen Rib Deflection	mm	45*	8.157

*Proposed IARV

Supplemental restraint information is given below:

Restraint Type	Left Front (Driver) Occupant Location 1		Left Rear (Passenger) Occupant Location 4	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes	No		
Knee Airbag	Yes	No		
Side Curtain Airbag	Yes	Yes	Yes	Yes
Side Torso/Pelvis Airbag	Yes	Yes	No	
Side Airbag (Other)				
Seat Belt Pretensioner	Yes	Yes	Yes	Yes
Seat Belt Load Limiter	Yes		Yes	
Other				

The test data can be found on the NHTSA website at www.nhtsa.gov

GENERAL COMMENTS

The left rear passenger door separated from the body at the door latch during the impact event. The post-test gap measured at the latch was 70 mm.

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

SECTION 2
OCCUPANT AND VEHICLE INFORMATION / DATA SHEETS

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025

TEST VEHICLE INFORMATION AND OPTIONS

NHTSA No.	O20265300	Traction Control System (TCS)	Yes
Model Year	2026	Auto-Leveling System	No
Make	Honda	Automatic Door Locks (ADL)	Yes
Model	Passport RTL AWD	Power Window Auto-Reverse	Yes
Body Style	5-Door SUV	Other Optional Feature	No
VIN	5FNYF9H30TB035583	Driver Front Airbag	Yes
Body Color	Crystal Black Pearl	Driver Curtain Airbag	Yes
Odometer Reading (km/mi)	8 km / 5 mi	Driver Head/Torso Airbag	No
Engine Displacement (L)	3.5	Driver Torso Airbag	No
Type/No. Cylinders	V6	Driver Torso/Pelvis Airbag	Yes
Engine Placement	Lateral	Driver Pelvis Airbag	No
Transmission Type	Automatic	Driver Knee Airbag	Yes
Transmission Speeds	10	Rear Pass. Curtain Airbag	Yes
Overdrive	Yes	Rear Pass. Head/Torso Airbag	No
Final Drive	AWD	Rear Pass. Torso Airbag	No
Roof Rack	No	Rear Pass. Torso/Pelvis Airbag	No
Sunroof/T-Top	No	Rear Pass. Pelvis Airbag	No
Running Boards	No	Driver Seat Belt Pretensioner	Yes
Tilt Steering Wheel	Yes	Rear Pass. Seat Belt Pretensioner	Yes
Power Seats	Driver	Driver Load Limiter	Yes
Anti-Lock Brakes (ABS)	Yes	Rear Pass. Load Limiter	Yes
		Other Safety Restraint	N/A

Does owner's manual provide instruction to turn off automatic door locks?	Yes
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DATA FROM CERTIFICATION LABEL

Manufactured By	HONDA DEVELOPMENT & MANUFACTURING OF AMERICA, LLC	GVWR (kg)	2640
Date of Manufacture	08/'25	GAWR Front (kg)	1390
Vehicle Type	MPV	GAWR Rear (kg)	1485

VEHICLE SEATING AND WEIGHT CAPACITY DATA

Measured Parameter	Front	Rear	Third	Total	
Designated Seating Capacity (DSC)	2	3		5	
Capacity Weight (VCW) (kg)				430	(A)
DSC x 68 kg				340	(B)
Rated Cargo and Luggage Weight (RCLW) (kg)				90	(A-B)

VEHICLE SEAT TYPE

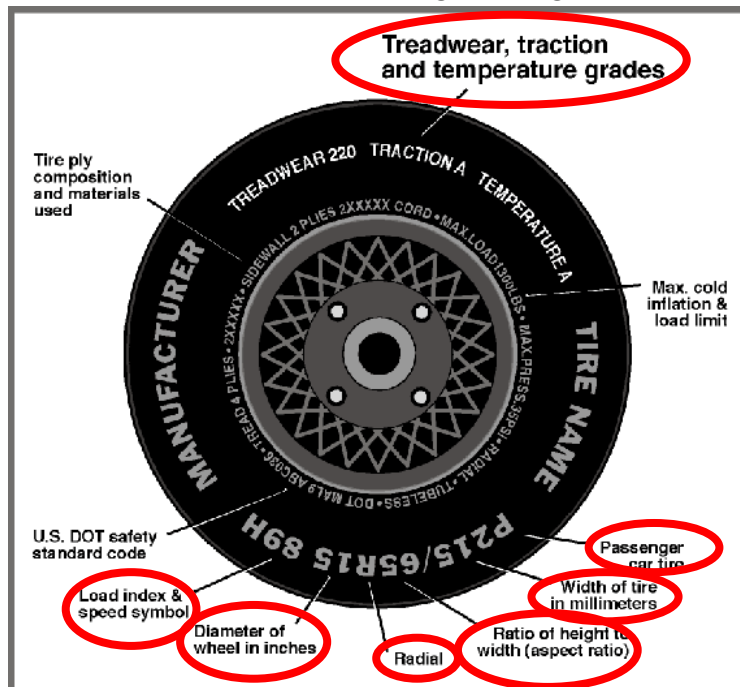
Seating Location	Type of Seat Pan				Type of Seat Back		
	Bucket	Bench	Split Bench	Contoured	Fixed	Adjustable	
						w/ Lever	w/ Knob
Front Seat	X					X	
Rear or Second Row			X		X		
Third Row Seat							

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

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025

VEHICLE TIRE INFORMATION



Measured Parameter	Front	Rear
Max. Tire Pressure (kPa)	350	350
Cold Pressure (kPa)	240	240
Recommended Tire Size	265/60R18	265/60R18
Tire Size on Vehicle	265/60R18	265/60R18
Tire Manufacturer	Hankook	Hankook
Tire Model	DynaPro HP2	DynaPro HP2
Treadwear	540	540
Traction	A	A
Temperature Grade	A	A
Tire Plies Sidewall	2 Polyester	2 Polyester
Tire Plies Body	2 Steel, 2 Polyester, 1 Polyamide	2 Steel, 2 Polyester, 1 Polyamide
Load Index/Speed Symbol	110H	110H
Tire Material	Rubber	Rubber
DOT Safety Code Left	OOTFA BUHA 2925	OOTFA BUHA 2925
DOT Safety Code Right	OOTFA BUHA 2925	OOTFA BUHA 2925

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

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

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 Test Date: 10/17/2025

TEST VEHICLE TIRE PRESSURES

	Units	LF	RF	LR	RR
As Delivered	kPa	235	235	235	235
Tire Placard	kPa	240	240	240	240
Owner's Manual	kPa	240	240	240	240
As Tested	kPa	240	240	240	240

MDB TIRE SPECIFICATIONS

	Requirement	Units	LF	RF	LR	RR
Tire Size	P205/75R15	N/A	P205/75R15	P205/75R15	P205/75R15	P205/75R15
Tire Pressure	200 ± 21	kPa	200	200	200	200

TEST VEHICLE AXLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)			Fully Loaded		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
Left	kg	618.0	425.5		653.5	520.5		657.0	530.0	
Right	kg	554.0	450.0		561.0	524.5		549.0	530.5	
Ratio	%	57.2%	42.8%		53.8%	46.2%		53.2%	46.8%	
Totals	kg	1172.0	875.5	2047.5	1214.5	1045.0	2259.5	1206.0	1060.5	2266.5

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value	
Total Delivered Weight (UVW)	kg	2047.5	(A)
Sum of Actual Weight of 2 P572 ATDs Used	kg	129	(B)
Rated Cargo/Luggage Weight (RCLW)	kg	90	(C)
Calculated Test Vehicle Target Weight (TVTW)	kg	2266.5	(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**

TEST VEHICLE ATTITUDES AND CG

	Units	Fully Loaded	As Tested	Meets Requirement*
Left Front	mm	868	861	Yes
Right Front	mm	875	865	Yes
Right Rear	mm	857	865	Yes
Left Rear	mm	848	843	Yes
Vehicle CG (Aft of Front Axle)	mm	1355	1340	
Vehicle CG (Left (+) / Right (-) from Longitudinal Centerline)	mm	41	34	

* ND=Nose Down (-), NU=Nose Up (+) ** LD=Left Down (-), LU=Left Up (+)

*** The "As Tested" vehicle attitude measurements must be equal to or within ± 10 mm of the "Fully Loaded" vehicle attitude measurements at each wheel well.

Test height adjustable suspension setting, if applicable:	Not Applicable
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DATA SHEET NO. 1 (CONTINUED)
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

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WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW

Component Description	Units	Weight
Weight of Ballast Added	kg	59
Components Removed: none	kg	

TEST SURFACE MARKINGS

	Units	Distance from 63° Impact Angle Line
Fore 25 mm Target	mm	1005
Aft 25 mm Target	mm	1017
Pre-Impact Angle Line	mm	100

Parallel Track Target	Units	X Location	Y Location
A	mm	0	0
B	mm	1520	3085
C	mm		
D	mm	3500	0

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

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
Test Date: 10/17/2025

SEAT POSITIONING

The driver's seat, front center seat (if applicable), and right front passenger's seat should be set to the mid-track, lowest, mid-angle position. The struck-side rear passenger's seat, rear center seat, and non-struck side rear passenger's seats should be set to the rear-most, lowest, mid-angle position.

SCRL ANGLE RANGE

Seat	SCRL (°)		
	Max	Min	Mid
Driver Seat	25.8	14.4	20.1
Front Passenger Seat	Fixed	Fixed	Fixed
Front Center Seat			
Struck Side Rear Seat	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Fixed

SEAT HEIGHT AND ANGLE

Seat	As-Tested SCRL Angle (Mid) (°)	As-Tested SCR Height (mm)	SCR Height Position	SCR Height (mm)		
				Rear-Most	Mid	Forward- Most
Driver Seat	20.1	0	Max	48	48	48
			Mid	24	24	24
			Min	0	0	0
Front Passenger Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Front Center Seat			Max			
			Mid			
			Min			
Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed

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

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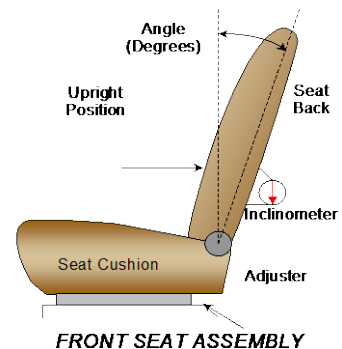
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SEAT FORE/AFT POSITIONS

Seat	Total Fore/Aft Travel		Test Position from Forward-Most Position	
	mm	Detents (1 st as 1)	mm	Detent (1 st as 0)
Driver Seat	240		120	
Front Passenger Seat	210		105	
Front Center Seat				
Struck Side Rear Seat	Fixed		Fixed	
Non-Struck Side Rear Seat	Fixed		Fixed	
Rear Center Seat	Fixed		Fixed	

SEAT BACK ANGLE ADJUSTMENT

The driver's seat back is positioned to the manufacturer's designated design angle. 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 seat back is positioned such that the dummy's head is level. The rear center and non-struck side rear outboard seat backs are positioned in a similar manner as the struck-side rear seat back.



Seat	Total Seat Back Angle Range		Test Position from Vertical	
	Degrees	Detents (1 st as 1)	Degrees	Detent (1 st as 0)
Driver Seat	73.9		2.1	
Front Passenger Seat	79.3		2.0	
Front Center Seat				
Struck Side Rear Seat	Fixed		12.2	
Non-Struck Side Rear Seat	Fixed		12.2	
Rear Center Seat	Fixed		12.2	

Seat back angles measured on outboard headrest post.

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

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NHTSA No.: O20265300
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SEAT BELT ANCHORAGE ADJUSTMENT

Seat belt anchorages are adjusted in accordance with the information provided by the manufacturer on S1 - Vehicle Setup Information.

	Total # of Positions	Placed in Position #
Driver Seat	4	0 (Uppermost as 0)
Rear Seat	Fixed	

HEAD RESTRAINT ADJUSTMENT

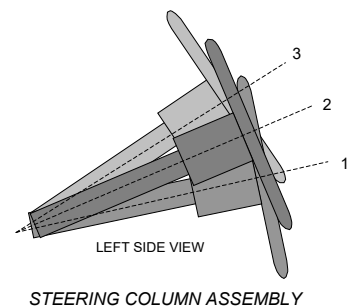
The driver's head restraint is adjusted to the highest and most full forward in-use position. The struck-side rear passenger's head restraint is adjusted to the lowest and most full forward in-use position.

	Total # of Positions	Placed in Position #
Driver Seat	5	4 (Lowest as 0) / Fixed Fore-Aft
Rear Seat	3	0 (Lowest as 0) / Fixed Fore-Aft

STEERING COLUMN ADJUSTMENT

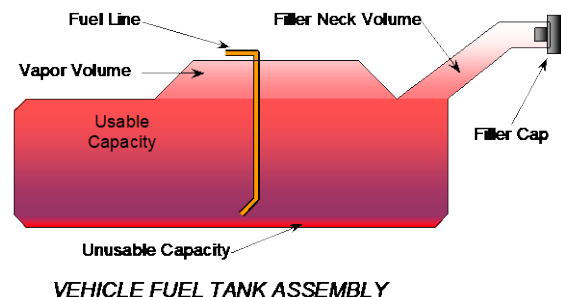
Steering wheel and column adjustments are made so that the steering wheel hub is at the center of its geometric locus it describes when it moves through its full range of motion.

	Wheel Angle (°)	Fore/Aft Position (mm)
Lowermost, Position 1	68.2	
Geometric Center, Position 2	65.4	
Uppermost, Position 3	62.5	
Telescoping Steering Wheel Travel		64
Test Position	65.4	32



FUEL PUMP

The vehicle is equipped with an electronic fuel pump. The fuel pump will run when the engine is running. The pump will also briefly run when the ignition key is turned to the "on" position. The filler neck is located on the driver's side.



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

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
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FUEL TANK CAPACITY DATA

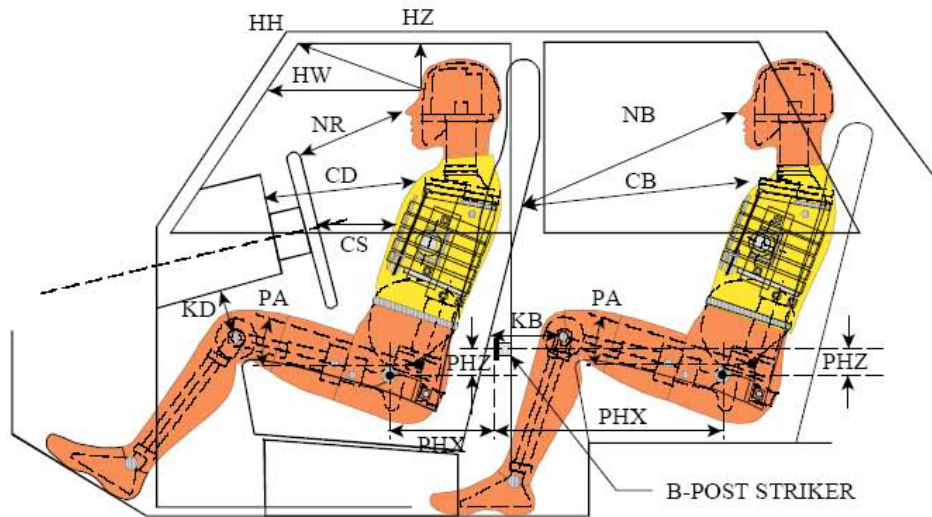
	Liters
Usable Capacity of Standard Tank (see S1 - Vehicle Setup Information)	70.0
Usable Capacity of Optional Tank (see S1 - Vehicle Setup Information)	
Usable Capacity of Standard Tank as Specified in Owner's Manual	70.0
Usable Capacity of Optional Tank as Specified in Owner's Manual	
93% of Usable Capacity	65.1
Actual Amount of Solvent Used	65.1
1/3 of Usable Capacity	23.3

Is the actual amount of solvent used in the test equal to $93\% \pm 1\%$
 of the Usable Capacity stated in S1 - Vehicle Setup Information? **YES**

DATA SHEET NO. 3 DUMMY LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
Test Date: 10/17/2025



LEFT SIDE VIEW

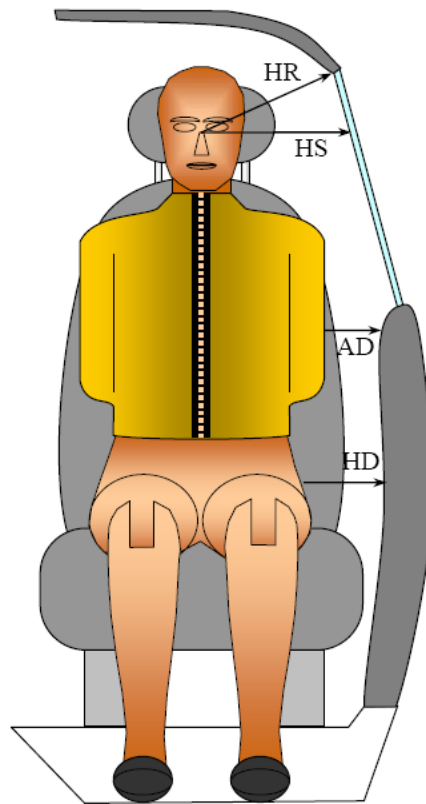
NOTE: 2-DOOR VEHICLE SHOWN.
REAR DUMMY PHX & PHZ
MEASUREMENTS FOR A 4-DOOR
VEHICLE WOULD USE THE C-POST
STRIKER AS A REFERENCE POINT

Driver Code	Pass. Code	Measurement Description	Driver		Passenger	
			Length (mm)	Angle (°)	Length (mm)	Angle (°)
HH		Head to Header	493	15.5		
HW		Head to Windshield	737	0		
HZ	HZ	Head to Roof Liner	207	90	335	90
NR	NB	Nose to Rim/Seat Back	461	13.3	622	6.4
CD	CB	Chest to Dashboard/Seat Back	616	7.2	602	5.0
CS		Chest to Steering Wheel	384	10.4		
KDL	KBL	Left Knee to Dash/Seat Back	217	46.8	287	18.9
KDR	KBR	Right Knee to Dash/Seat Back	187	46.8	285	20.7
PAX	PAX	Pelvic Tilt Angle X		24.5		29.5
PAY	PAY	Pelvic Tilt Angle Y		-1.7		-0.7
PHX	PHX	Hip Point to Striker (X-Axis)	180		305	
PHZ	PHZ	Hip Point to Striker (Z-Axis)	183		185	

DATA SHEET NO. 4
DUMMY LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025

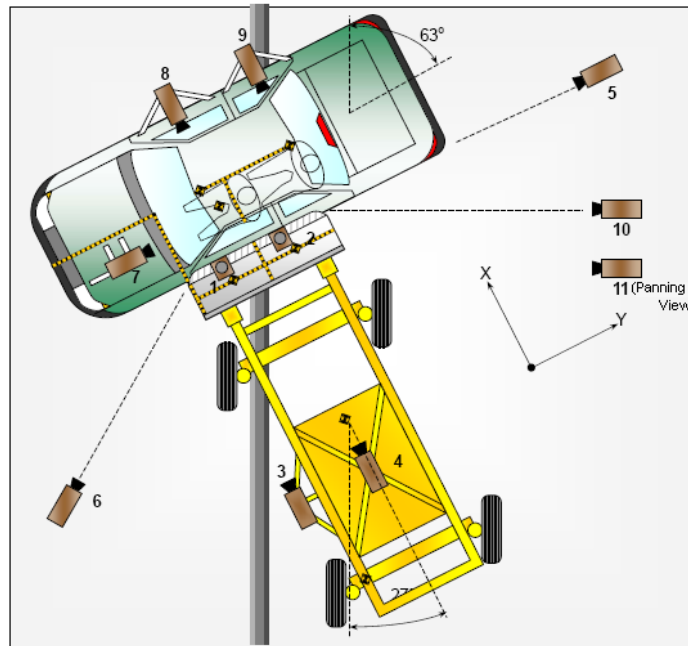


Code	Measurement Description	Driver	Passenger
		Length (mm)	
HR	Head to Side Header	230	320
HS	Head to Side Window	359	421
AD	Arm to Door	103	178
HD	Hip Point to Door	152	180

DATA SHEET NO. 5 CAMERA AND INSTRUMENTATION DATA

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
Test Date: 10/17/2025



CAMERA LOCATIONS AND DATA

No.	Camera View	Coordinates* (mm)			Lens (mm)	Frame Rate (fps)
		X	Y	Z		
1	Overhead Overall	600	485	-4995	8.5	1000
2	Overhead Close-Up	0	0	-4895	20	1000
3	Left Impact Point (MDB)				50	1000
4	Side Overall (MDB)				16	1000
5	Rear	-40	7605	-1550	24	1000
6	Left Front	-1430	-4720	-1525	24	1000
7	Driver Front (OB)				16	1000
8	Driver Side (OB)				8	1000
9	Passenger Side (OB)				8	1000
10	Real Time Left Rear					30
11	Real Time Inrun					30

Reference: Impact Point projected to Ground; +X = To Front of MDB, +Y = To Right of MDB, +Z = Down

*All measurements accurate to ± 6 mm

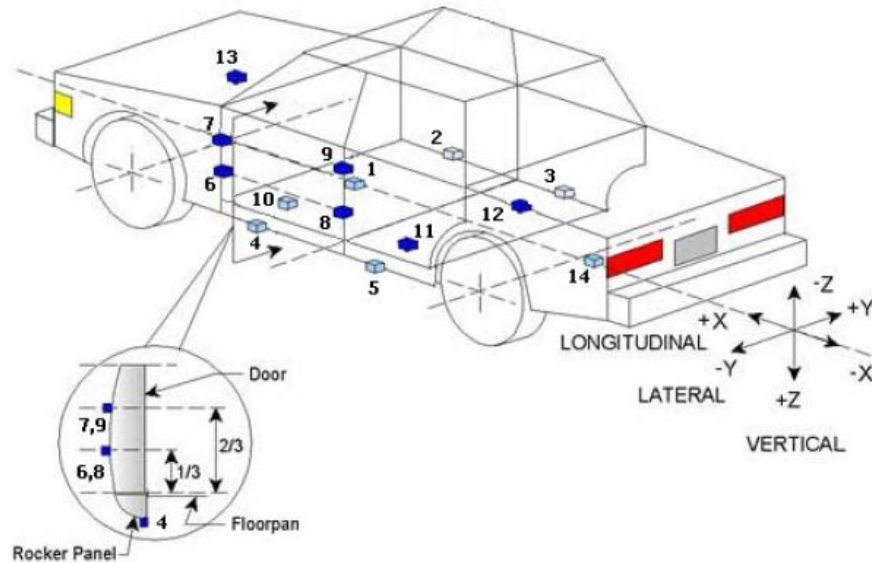
INSTRUMENTATION

	Number of Channels
Driver Dummy	16
Passenger Dummy	19
Vehicle Structure	23
MDB Accelerometers	5
Total	63

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

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
Test Date: 10/17/2025



TEST VEHICLE ACCELEROMETER LOCATIONS

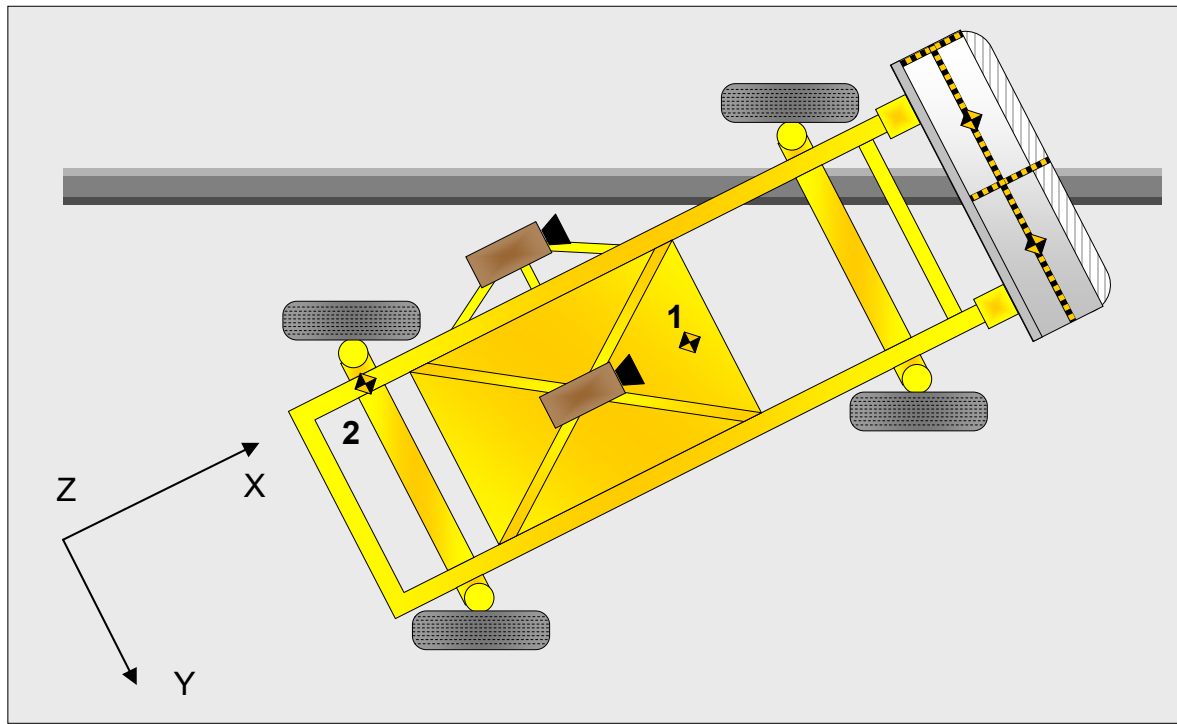
No.	ID	Coordinates (mm)		
		X	Y	Z
1	Vehicle CG	2592	-7	-403
2	Right Sill at Front Seat	2882	780	-303
3	Right Sill at Rear Seat	1897	783	-302
4	Left Sill at Front Door	2880	-786	-292
5	Left Sill at Rear Door	1919	-786	-293
6	Left Lower A-Post	3336	-904	-603
7	Left Middle A-Post	3329	-894	-833
8	Left Lower B-Post	2233	-778	-658
9	Left Middle B-Post	2221	-779	-895
10	Front Seat Track	2398	-428	-438
11	Rear Seat Structure	2010	-354	-489
12	Rt. Rear Occ. Compartment	2012	397	-477
13	Engine Block	4108	18	-1070
14	Rear Above Axle	1116	-5	-716

Reference: X – Rear Surface of Vehicle (+ forward)
Y – Vehicle Centerline (+ to right)
Z – Ground Plane (+ down)

DATA SHEET NO. 7
MDB ACCELEROMETER LOCATIONS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025



MDB ACCELEROMETER LOCATIONS

No.	Accelerometer Location	Coordinates (mm)		
		X	Y	Z
1	MDB CG	-1105	0	-330
2	MDB Rear	-2580	-650	-625

Reference: X – MDB Face (+ forward)
 Y – MDB Centerline (+ to right)
 Z – Ground Plane (+ down)

Width between left and right MDB contact switches	mm	1381
---	----	------

DATA SHEET NO. 8
POST-TEST OBSERVATIONS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
Test Date: 10/17/2025

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Front Seat Dummy (ES-2re)	Rear Seat Dummy (SID-IIs)
Face	Curtain Airbag	None
Top of Head	Headliner	Curtain Airbag
Left Side of Head	Curtain Airbag, Headliner	Curtain Airbag
Back of Head	Curtain Airbag, Headrest	Curtain Airbag, Headrest, Seatback
Left Shoulder	None	Curtain Airbag, Door Panel
Upper Torso	Side Torso/Pelvis Airbag, Seatback	None
Lower Torso	Side Torso/Pelvis Airbag, Seatback	Door Panel
Left Hip	Side Torso/Pelvis Airbag, Seat Cushion	Seat Cushion, Door Panel
Left Knee	None	None

POST-TEST DOOR PERFORMANCE

Description	Struck Side		Non-Struck Side		Rear Hatch
	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	Yes	No	No	No
Latch Separated from Striker	No	Yes	No	No	No
Jammed Shut	Yes	Yes	No	No	No
If Door Opened at Striker, Record Width of Opening at Striker (mm)		70			

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

POST-TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	No
Sill Separation	No
Windshield Damage	No
Side Window Damage	None
Other Notable Effects	None

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

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
Test Date: 10/17/2025

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

Restraint Type	Struck Side		Struck Side	
	Driver		Left Rear Passenger	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes	No		
Knee Airbag	Yes	No		
Side Curtain Airbag	Yes	Yes	Yes	Yes
Side Torso/Pelvis Airbag	Yes	Yes	No	
Side Airbag (Other)				
Seat Belt Pretensioner	Yes	Yes	Yes	Yes
Seat Belt Load Limiter	Yes		Yes	
Other				

IMPACT POINT LOCATION DATA

Measured Parameter	Units	Tolerance	Value
Vehicle Wheelbase	mm		2897
Vertical Impact Reference Line (Aft of Front Axle) (Intended Impact Point)	mm		508
Actual Impact Point (Aft of Front Axle)	mm		506
Horizontal Offset (+forward / -rearward)	mm	+/- 50 of intended impact point	2
Vertical Offset (+down / -up)	mm	+/- 20 of intended impact point	-2

DATA SHEET NO. 9
MDB SUMMARY OF RESULTS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
Test Date: 10/17/2025

MDB SPECIFICATIONS

Measurement Description	Length (mm)
Overall Width of Framework Carriage	1250
Overall Length Including Honeycomb Face	4119
Wheelbase of Framework Carriage	2588
CG Location aft of Front Axle	1125

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	393.4	297.1	
Right	kg	378.0	295.8	
Ratio	%	56.5	43.5	
Totals	kg	771.4	592.9	1364.4

Note: Total MDB weight does not equal the sum of the Front Axle and Rear Axle weights due to rounding of individual values.

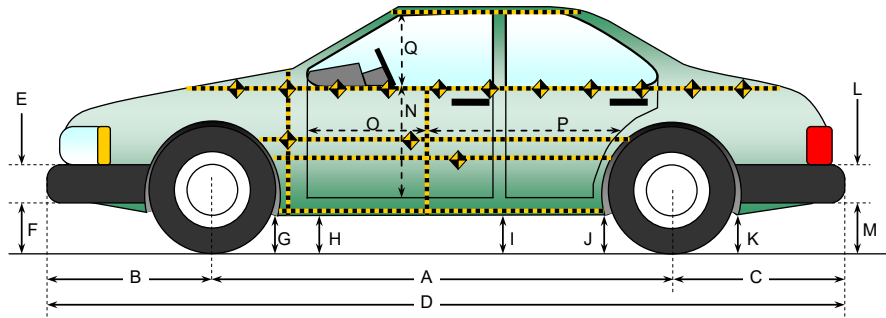
SPEED AND ANGLE AT IMPACT DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	62.19
Trap No. 2 Velocity (Redundant)	km/h	61.1 to 62.7	62.14
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	90.0
MDB Forward Line of Motion to Target Vehicle CL	degrees	62.5 to 63.5	62.8
MDB Crabbed Angle to MDB Forward Line of Motion	degrees	26 to 28	27.0

DATA SHEET NO. 10
TEST VEHICLE PROFILE MEASUREMENTS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
Test Date: 10/17/2025



All measurements in (mm) with tolerance of ± 3 mm

LEFT SIDE VIEW

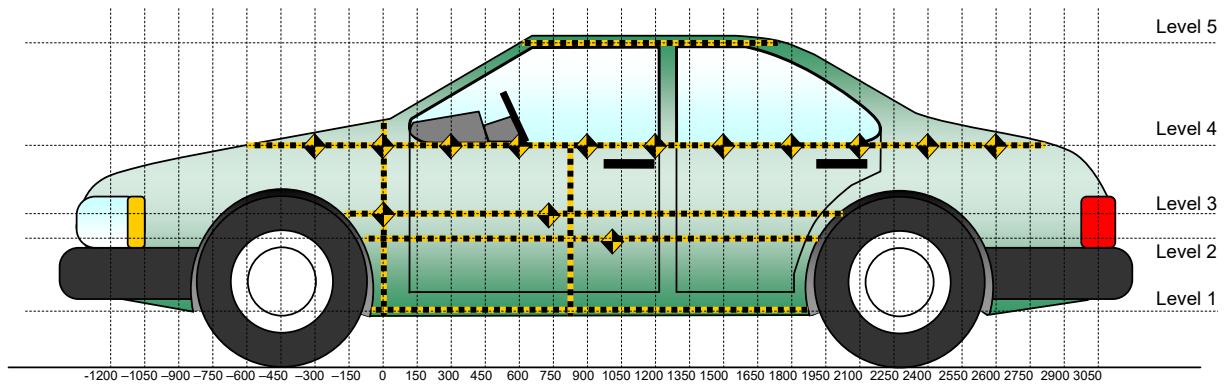
VEHICLE PRE- AND POST-TEST MEASUREMENT INFORMATION

Code	Measurement Description	Pre-Test	Post-Test	Change
A	Wheelbase	2897	2896	-1
B	Front Axle to FSOV	947	947	0
C	Rear Axle to RSOV	1010	1014	4
D	Total Length at Centerline	4853	4857	4
E	Front Bumper Thickness	160	161	1
F	Front Bumper Bottom to Ground	477	500	23
G	Sill Height at Front Wheel Well	294	300	6
H	Sill Height at Front Door Leading Edge	276	296	20
I	Sill Height at B Pillar	284	289	5
J1	Sill Height at Rear Wheel Well	287	292	5
J2	Pinch Weld Height at Rear Wheel Well	270	273	3
K	Sill Height Aft of Rear Wheel Well	322	323	1
L	Rear Bumper Thickness	90	89	-1
M	Rear Bumper Bottom to Ground	506	515	9
N	Sill Height to Window Bottom Sill	740	720	-20
O	Front Door Leading Edge to Impact CL	835	809	-26
P	Rear Door Trailing Edge to Impact CL	1156	1136	-20
Q	Front Window Opening	474	476	2
R	Right Side Length	4247	4249	2
S	Left Side Length	4247	4247	0
T	Vehicle Width at B Post	1976	1873	-103
U	Front Wheel Track Width	1713		
V	Rear Wheel Track Width	1720		

DATA SHEET NO. 11 **TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS**

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025



All Measurements Shown in mm

LEFT SIDE VIEW

MAXIMUM EXTERIOR CRUSH MEASUREMENTS

Level	Measurement Description	Height Above Ground	Maximum Exterior Static Crush	Distance from Impact
1	Sill Top	451	86	750
2	Occupant H-Point	747	163	750
3	Mid Door	774	162	750
4	Window Sill	1142	8	-300
5	Window Top	1683	3	1200

Note: The measurements are taken along the vertical impact reference line. Vehicle measurements forward of the vertical impact reference line are negative.

DATA SHEET NO. 11 (CONTINUED)
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025

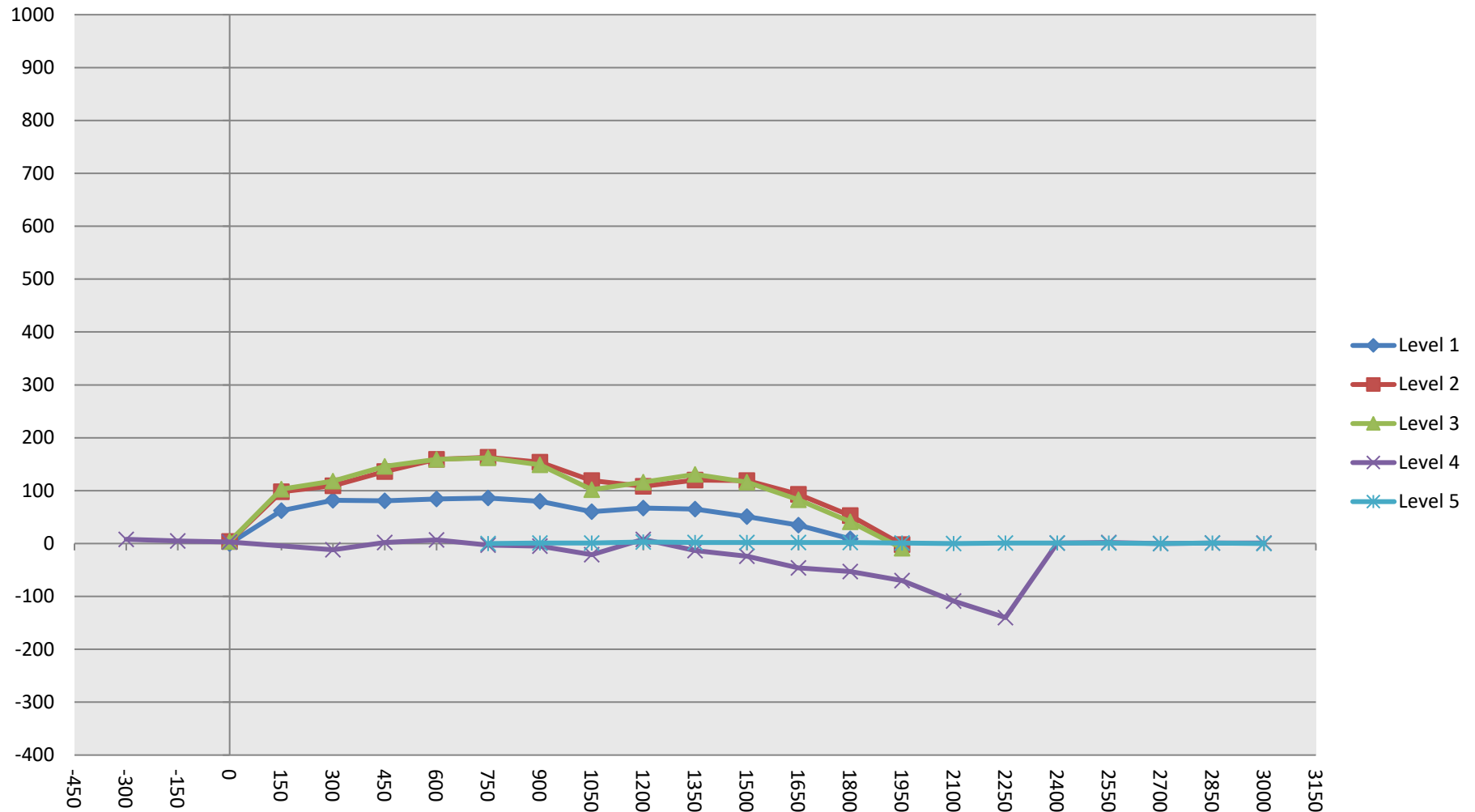
	Pre-Test					Post-Test					Exterior Crush				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-2100															
-1950															
-1800															
-1650															
-1500															
-1350															
-1200															
-1050															
-900															
-750															
-600															
-450															
-300				896					888					8	
-150				901					896					5	
0	969	993	995	910		969	989	991	907		0	4	4	3	
150	959	989	990			897	891	887			62	98	103		
300	948	986	987	925		866	877	869	937		82	109	118	-12	
450	946	985	987	929		865	849	841	927		81	136	146	2	
600	947	985	987	934		863	826	828	927		84	159	159	7	
750	948	985	987	934	697	862	822	825	937	697	86	163	162	-3	0
900	948	985	987	935	705	868	831	838	940	704	80	154	149	-5	1
1050	947	986	988	935	710	887	867	886	956	709	60	119	102	-21	1
1200	948	986	988	934	711	881	878	872	926	708	67	108	116	8	3
1350	946	987	989	934	711	881	867	858	947	709	65	120	131	-13	2
1500	944	987	989	934	711	893	868	873	958	709	51	119	116	-24	2
1650	942	988	989	933	711	907	895	906	979	709	35	93	83	-46	2
1800	960	990	992	935	710	951	937	951	988	708	9	53	41	-53	2
1950		992	994	933	707		994	1003	1003	706		-2	-9	-70	1
2100				933	703				1042	703				-109	0
2250				934	696				1074	695				-140	1
2400				929	685				928	684				1	1
2550				925	677				923	676				2	1
2700				918	665				918	665				0	0
2850				911	654				910	653				1	1
3000				902	639				901	639				1	0
3150															
3300															
3450															
3600															
3750															
3900															

NOTE: Pre-test measurements are taken when the vehicle is in the "As Tested" weight condition. Vehicle measurements forward of the vertical impact reference line are negative. The crush profile grid is established prior to the test based on an estimated impact point.

DATA SHEET NO. 11 (CONTINUED)
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
Test Program: NCAP Side MDB Impact Test

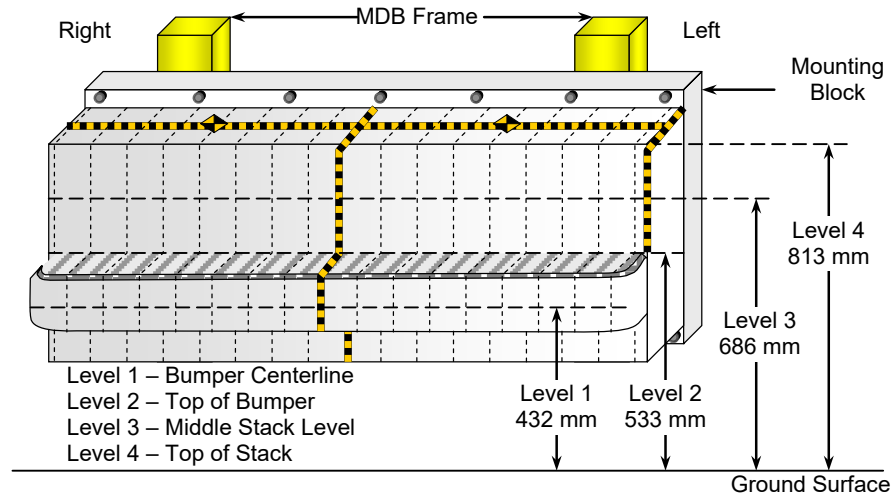
NHTSA No.: O20265300
Test Date: 10/17/2025



DATA SHEET NO. 12
MDB EXTERIOR STATIC CRUSH MEASUREMENTS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025



FRONT VIEW

MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE

Vertical Location			From Centerline		Maximum Crush (mm)
Row	Description	Height (mm)	Distance (mm)	Direction	
A	Center of Bumper	432	800	Right	281
B	Top of Bumper	533	800	Right	197
C	Mid-Level	686	200	Right	161
D	Top of Stack	813	800	Right	176

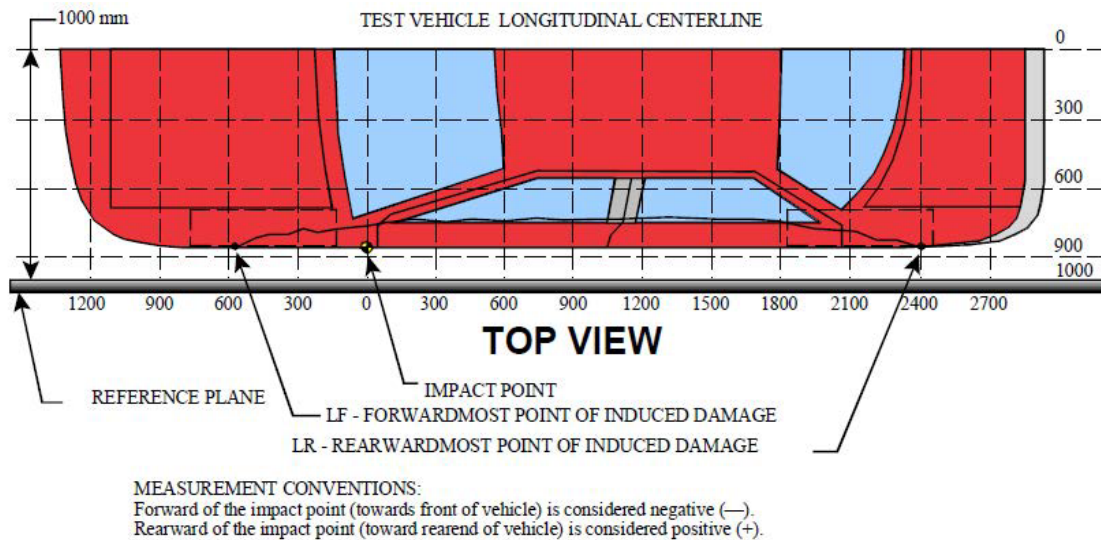
DEFORMABLE BARRIER STATIC CRUSH

Stack Level	Distance Right of Center (mm)								C _L	Distance Left of Center (mm)							
	800	700	600	500	400	300	200	100		100	200	300	400	500	600	700	800
4	176	146	122	106	101	121	136	151	159	122	102	99	101	104	119	146	172
3	136	123	122	113	100	119	161	140	123	84	74	73	79	87	97	111	133
2	197	190	188	186	173	166	171	160	146	156	159	161	155	153	153	151	150
1	281	275	269	270	267	266	265	263	256	252	249	248	245	243	242	243	240

DATA SHEET NO. 13
VEHICLE AND MDB DAMAGE PROFILE DISTANCES

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025



VEHICLE DAMAGE PROFILE DISTANCES

DPD	Distance from Impact Point (mm)	Level	Post-Test (mm)	Pre-Test (mm)	Max. Static Crush (mm)
1	1950	3	-3	6	-9
2	1537	3	120	11	109
3	1153	3	138	12	126
4	777	3	178	13	165
5	385	3	139	13	126
6	0	3	9	5	4

MDB DAMAGE PROFILE DISTANCES

DPD	Distance from Impact Point (mm)	Level	Post-Test (mm)	Pre-Test (mm)	Max. Static Crush (mm)
1	800 mm right of center	1	757	476	281
2	480 mm right of center	1	735	463	272
3	160 mm right of center	1	724	463	261
4	160 mm left of center	1	711	463	248
5	480 mm left of center	1	710	463	247
6	800 mm left of center	1	716	476	240

DATA SHEET NO. 14
FMVSS NO. 301 STATIC ROLLOVER RESULTS

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

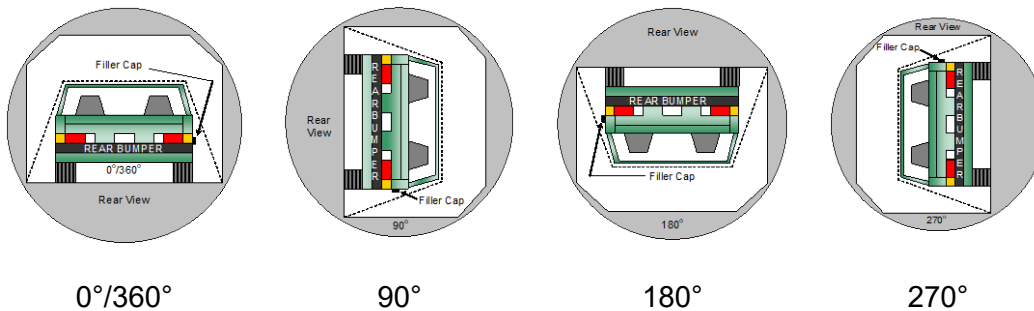
NHTSA No.: O20265300
 Test Date: 10/17/2025

Test Time: 11:34 am

Temperature: 22.1°C

- A. From impact until vehicle motion ceases: (Maximum Allowable = 1 ounce) 0.0 oz.
 B. For the 5 minute period after motion ceases: (Maximum Allowable = 5 ounces) 0.0 oz.
 C. For the following 25 minutes: (Maximum Allowable = 1 ounce / minute) None
 D. Spillage Details: None

FMVSS 301 STATIC ROLLOVER DATA



ROLLOVER SOLVENT COLLECTION TIME TABLE IN SECONDS

Test Phase	Rotation Time	Hold Time	Total Time
0° to 90°	91	300	391
90° to 180°	91	300	391
180° to 270°	81	300	381
270° to 360°	84	300	384

FMVSS 301 ROLLOVER SPILLAGE TABLE (UNITS IN OUNCES)

Test Phase	First 5 Minutes	Sixth Minute	Seventh Minute	Eighth Minute
0° to 90°	0.0	0.0	0.0	
90° to 180°	0.0	0.0	0.0	
180° to 270°	0.0	0.0	0.0	
270° to 360°	0.0	0.0	0.0	

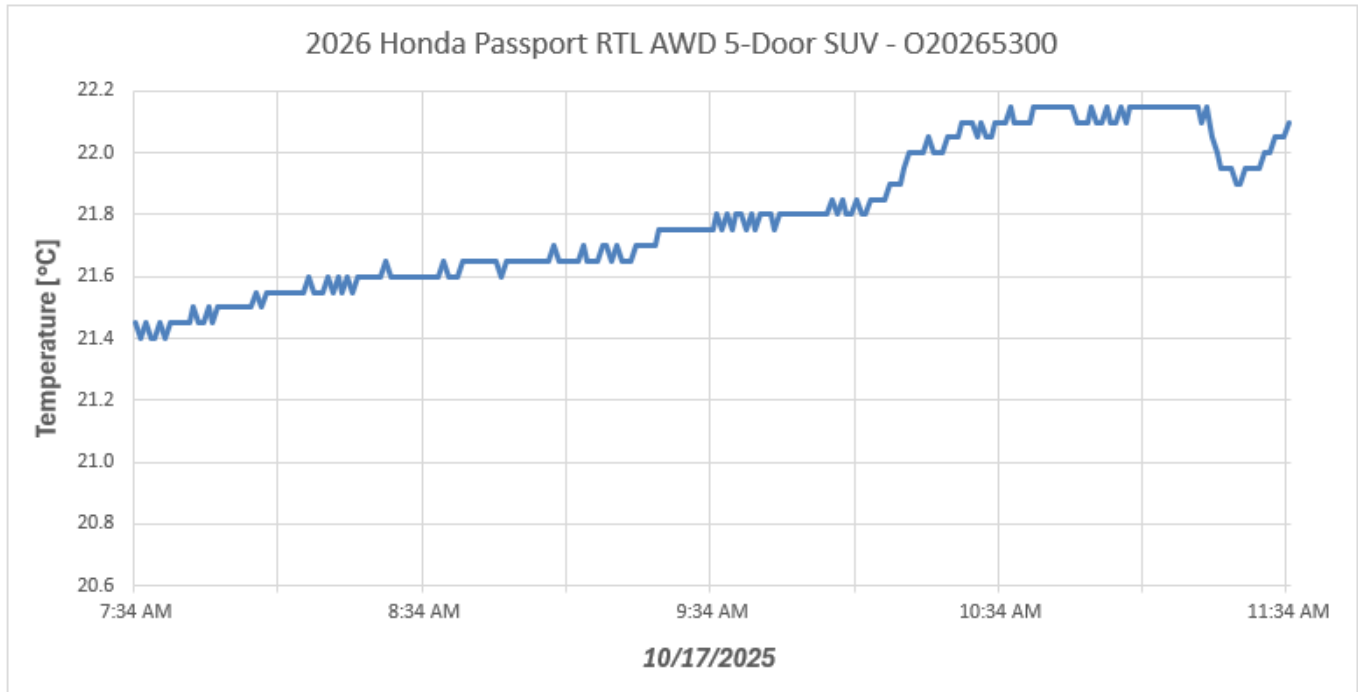
ROLLOVER SOLVENT SPILLAGE LOCATION TABLE

Test Phase	Spillage Location
0° to 90°	
90° to 180°	
180° to 270°	
270° to 360°	

DATA SHEET NO. 15
DUMMY/VEHICLE TEMPERATURE AND HUMIDITY STABILIZATION DATA

Test Vehicle: 2026 Honda Passport RTL AWD 5-Door SUV
 Test Program: NCAP Side MDB Impact Test

NHTSA No.: O20265300
 Test Date: 10/17/2025



Serial #	Description	Maximum	Average	Minimum	Units
W1443497	VSC North Hall - Temp (3016)	22.15	21.80	21.40	°C

**APPENDIX A
PHOTOGRAPHS**

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Photo No. 001 - As Delivered Right Front Three-Quarter View of Test Vehicle



Photo No. 002 - As Delivered Left Rear Three-Quarter View of Test Vehicle

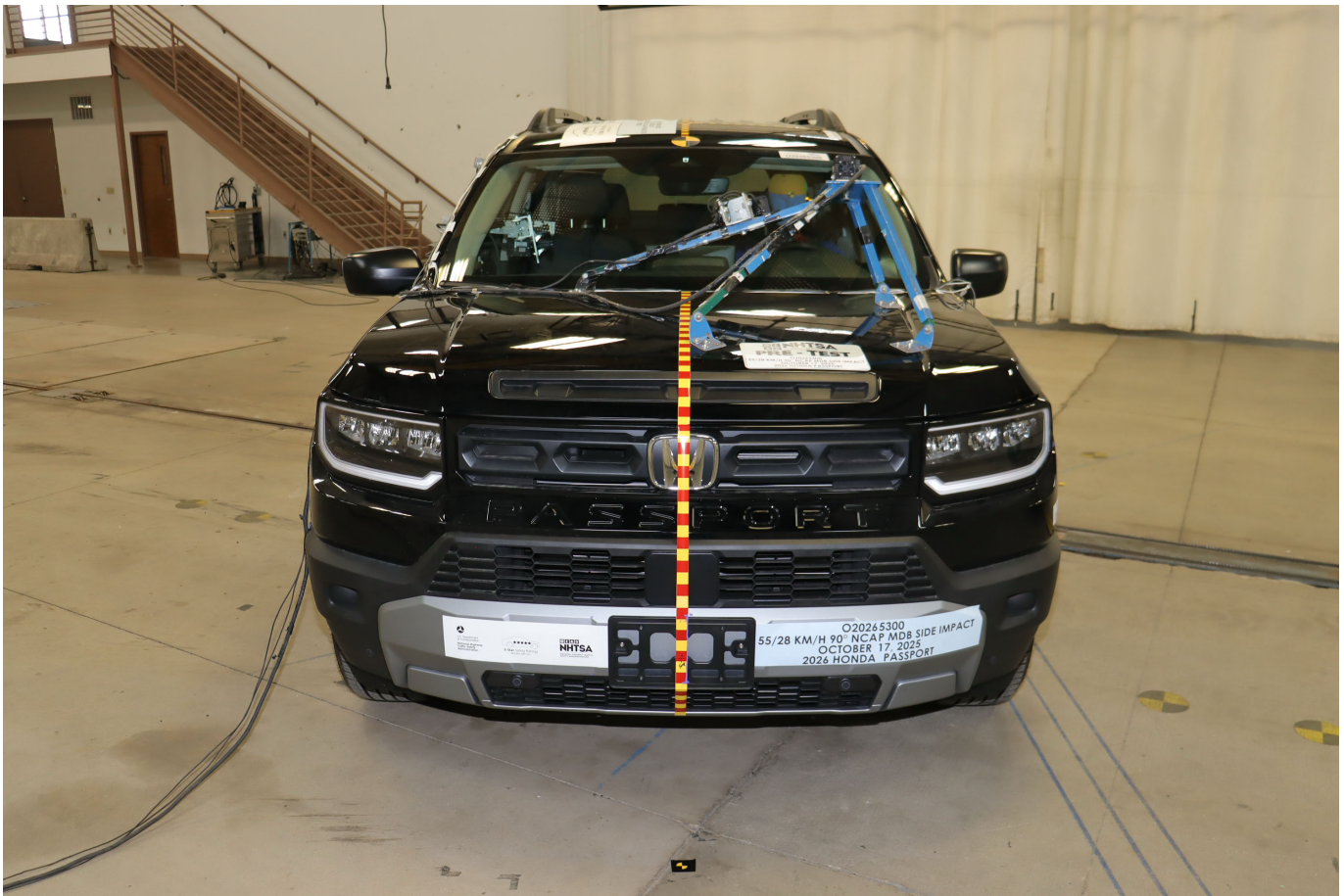


Photo No. 003 - Pre-Test Frontal View of Test Vehicle



Photo No. 004 - Post-Test Frontal View of Test Vehicle



Photo No. 005 - Pre-Test Left Front Three-Quarter View of Test Vehicle



Photo No. 006 - Post-Test Left Front Three-Quarter View of Test Vehicle



Photo No. 007 - Pre-Test Left Side View of Test Vehicle



Photo No. 008 - Post-Test Left Side View of Test Vehicle



Photo No. 009 - Pre-Test Left Three-Quarter Rear View of Test Vehicle



Photo No. 010 - Post-Test Left Three-Quarter Rear View of Test Vehicle

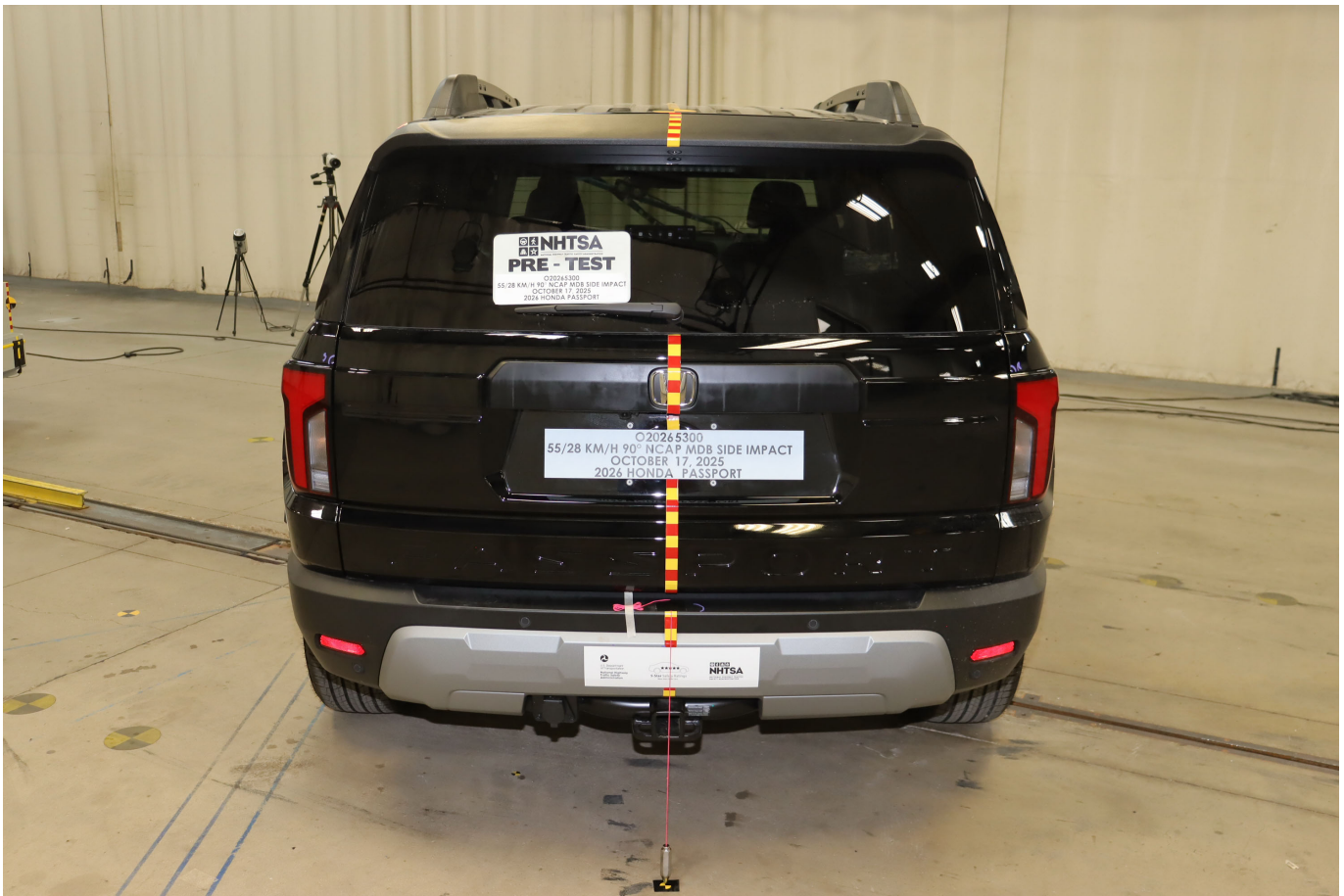


Photo No. 011 - Pre-Test Rear View of Test Vehicle



Photo No. 012 - Post-Test Rear View of Test Vehicle



Photo No. 013 - Pre-Test Right Side View of Test Vehicle



Photo No. 014 - Post-Test Right Side View of Test Vehicle



Photo No. 015 - Pre-Test Overhead View of Test Area



Photo No. 016 - Post-Test Overhead View of Test Area



Photo No. 017 - Pre-Test Left Side View of MDB Positioned Against Side of Test Vehicle



Photo No. 018 - Pre-Test Right Side View of MDB Positioned Against Side of Test Vehicle



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Photo No. 021 - Pre-Test Left Front Door Latch Close-Up



Photo No. 022 - Post-Test Left Front Door Latch Close-Up



Photo No. 023 - Pre-Test Left Rear Door Latch Close-Up



Photo No. 024 - Post-Test Left Rear Door Latch Close-Up



Photo No. 025 - Pre-Test Front Close-Up View of Driver Dummy



Photo No. 026 - Post-Test Front Close-Up View of Driver Dummy



Photo No. 027 - Pre-Test Left Side View of Driver Dummy Showing Belt and Chalking



Photo No. 028 - Pre-Test Left Side View of Driver Dummy Shoulder and Door Top View



Photo No. 029 - Post-Test Left Side View of Driver Dummy Shoulder and Door Top View



Photo No. 030 - Pre-Test Frontal View of Driver Seat Back Prior to Dummy Positioning



Photo No. 031 - Pre-Test Frontal View of Driver Dummy Head and Shoulders in Relation to Head Restraint



Photo No. 032 - Pre-Test Frontal View of Driver Seat Pan Prior to Dummy Positioning



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Photo No. 043 - Post-Test Driver Dummy and Door Clearance View



Photo No. 044 - Pre-Test Right Side View of Driver Dummy and Front Seat of Occupant Compartment



Photo No. 045 - Post-Test Right Side View of Driver Dummy and Front Seat of Occupant Compartment



Photo No. 046 - Pre-Test Driver Inner Door Panel View



Photo No. 047 - Post-Test Driver Inner Door Panel View



Photo No. 048 - Post-Test Driver Dummy Close-Up Head Contact with Vehicle Interior View



Photo No. 049 - Post-Test Driver Dummy Close-Up Head Contact with Side Airbag View



Photo No. 050 - Post-Test Driver Dummy Close-Up Torso Contact with Vehicle Interior View



Photo No. 051 - Post-Test Driver Dummy Close-Up Torso Contact with Side Airbag View



Photo No. 052 - Post-Test Driver Dummy Close-Up Pelvis Contact with Vehicle Interior View



Photo No. 053 - Post-Test Driver Dummy Close-Up Pelvis Contact with Side Airbag View

PHOTOGRAPH NOT APPLICABLE

Photo No. 054 - Post-Test Driver Dummy Close-Up Knee Contact View



Photo No. 055 - Pre-Test Left Side View of Rear Passenger Dummy Showing Belt and Chalking



Photo No. 056 - Pre-Test Left Side View of Rear Passenger Dummy Shoulder and Door Top View



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Photo No. 068 - Pre-Test Close-Up View of Rear Passenger Seat Back or Head Restraint



Photo No. 069 - Pre-Test Rear Passenger Dummy and Door Clearance View



Photo No. 070 - Post-Test Rear Passenger Dummy and Door Clearance View



Photo No. 071 - Pre-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



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Photo No. 073 - Pre-Test Rear Passenger Inner Door Panel View



Photo No. 074 - Post-Test Rear Passenger Inner Door Panel View



Photo No. 075 - Post-Test Rear Passenger Dummy Close-Up Head Contact with Vehicle Interior View



Photo No. 076 - Post-Test Rear Passenger Dummy Close-Up Head Contact with Side Airbag View



Photo No. 077 - Post-Test Rear Passenger Dummy Close-Up Torso Contact with Vehicle Interior View

PHOTOGRAPH NOT APPLICABLE

Photo No. 078 - Post-Test Rear Passenger Dummy Close-Up Torso Contact with Side Airbag View



Photo No. 079 - Post-Test Rear Passenger Dummy Close-Up Pelvis Contact with Vehicle Interior View

PHOTOGRAPH NOT APPLICABLE

Photo No. 080 - Post-Test Rear Passenger Dummy Close-Up Pelvis Contact with Side Airbag View

PHOTOGRAPH NOT APPLICABLE

Photo No. 081 - Post-Test Rear Passenger Dummy Close-Up Knee Contact View



Photo No. 082 - Pre-Test View of Fuel Filler Cap or Fuel Filler Neck



Photo No. 083 - Post-Test View of Fuel Filler Cap or Fuel Filler Neck



Photo No. 084 - Pre-Test Front View of MDB Impactor Face



Photo No. 085 - Post-Test Front View of MDB Impactor Face



Photo No. 086 - Pre-Test Top View of MDB Impactor Face



Photo No. 087 - Post-Test Top View of MDB Impactor Face



Photo No. 088 - Pre-Test Left Side View of MDB Impactor Face



Photo No. 089 - Post-Test Left Side View of MDB Impactor Face



Photo No. 090 - Pre-Test Right Side View of MDB Impactor Face



Photo No. 091 - Post-Test Right Side View of MDB Impactor Face



Photo No. 092 - Close-Up View of Vehicle's Certification Label



Photo No. 093 - Close-Up View of Vehicle's Tire Information Placard or Label



Photo No. 094 - Pre-Test Ballast View



Photo No. 095 - Post-Test Primary and Redundant Speed Trap Read-Out



Photo No. 096 - FMVSS Photo No. 301 Static Rollover 0 Degrees



Photo No. 097 - FMVSS Photo No. 301 Static Rollover 90 Degrees



Photo No. 098 - FMVSS Photo No. 301 Static Rollover 180 Degrees

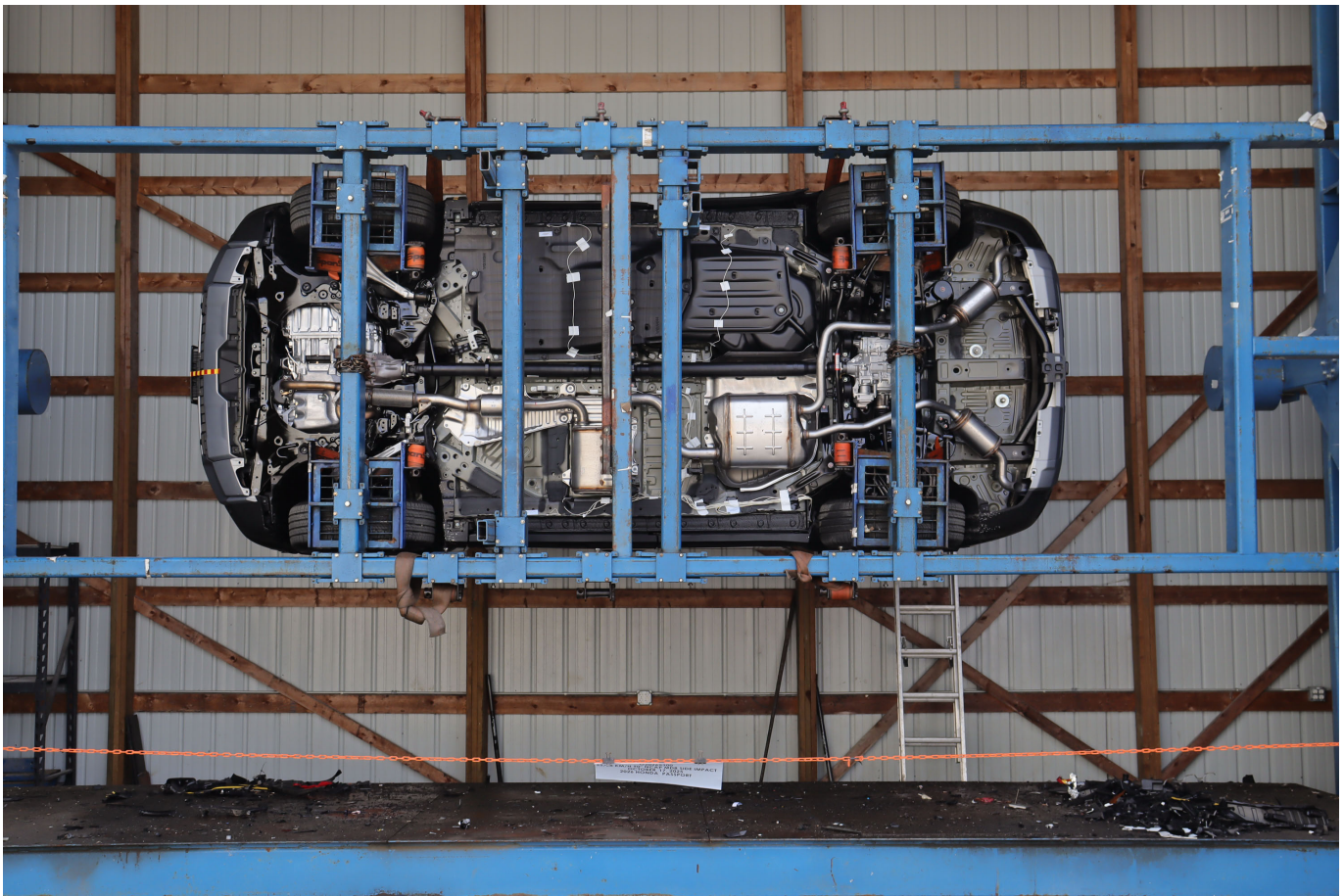


Photo No. 099 - FMVSS Photo No. 301 Static Rollover 270 Degrees



Photo No. 100 - FMVSS Photo No. 301 Static Rollover 360 Degrees



Photo No. 101 - Impact Event



HONDA

2026 PASSPORT RTL U

EXT: CRYSTAL BLACK P ENGINE NUMBER: J35Y8-2438811
INT: BLACK

STANDARD EQUIPMENT AT NO EXTRA COST

* TECHNICAL FEATURES *

- 285hp 3.5-Liter V6 Engine with Variable Cylinder Management (VCM)
- 10-Speed Automatic Transmission
- VTM4 All Wheel Drive System
- Integrated Drive Modes (Normal / Econ / Sport / Snow / Tow / Trail / Sand)
- Hill Start Assist

* SAFETY FEATURES *

- Driver's and Front Passenger's Airbags
- Driver's and Front Passenger's Side Airbags
- Side Curtain Airbags with Rollover Sensor
- Driver's and Front Passenger's Knee Airbags
- Anti-Lock Braking System (ABS)
- Electronic Brake Distribution (EBD)
- Vehicle Stability Assist (VSA)
- ACE Body Structure
- Tire Pressure Monitoring System
- LED Daytime Running Lights
- LATCH System for Child Seats

* INTERIOR FEATURES *

- Leather-Trimmed Interior
- Leather-Wrapped Steering Wheel
- Audio System with 9 Speakers
- 12.3-Inch Color Touchscreen with Multi-View Rear Camera
- 10.2" Digital Instrument Cluster
- Blind Spot Information (BSI) w/ Rear Cross Traffic Monitor
- Google built-in
- Wireless Apple CarPlay/Android Auto Integration
- Wireless Phone Charger
- Push Button Shifter

* EXTERIOR FEATURES *

- Front and Rear Parking Sensors
- Power Tailgate
- 18" Alloy Wheels
- 265/60 R18 All-Season Tires
- Auto High-Beam
- Heated Power Door Mirrors
- Smart Entry System with Security System
- Remote Engine Start
- Walk-Away Auto Lock
- Roof Rails

* HONDA SENSING *

- Adaptive Cruise Control (ACC)
- Collision Mitigation Braking System (CMBS)
- Lane Keeping Assist System (LKAS)
- Road Departure Mitigation (RDM)
- Traffic Jam Assist

Manufacturer's Suggested Retail Price

\$45,450.00

Full Tank of Fuel

No Charge

-Honda Roadside Assistance
3YR/36K Mile Warranty Term
Google built-in Includes:
3-Years Data for In-Vehicle Apps

FACTORY INSTALLED ACCESSORIES

U: TOWING PKG
Trailer Hitch w/ Harness,
Bumper Skid Garnish

Destination and Handling

1,495.00

TOTAL VEHICLE PRICE
(includes Pre-Delivery Service)

\$46,945.00

License and title fees, state and local taxes and dealer options and accessories are not included in the manufacturer's suggested retail price.

SPORT HONDA
3201 AUTOMOBILE BLVD.
SILVER SPRING, MD 20904

VIN: 5FN9YFH30TB035583



PORT OF ENTRY: ALABAMA
DELIVERY POINT: WINDSOR LOCK
SHIP: 751-027
ROWSPACE: E62 TALLADEGA
TRANS.METHOD: L40 ANNAPOLIS JCT

ORIG. DLR: 206772
REF. NO: 43159
HN CODE: HN-0552
EMISSION: 50 STATE
CONTROL NO: 889217
DEALER: 206772



EPA DOT Fuel Economy and Environment

Gasoline Vehicle

Fuel Economy

21 MPG
combined city/hwy

19 city 25 highway

4.8 gallons per 100 miles

Small SUVs range from 14 to 125 MPG. The best vehicle rates 146 MPG.

You spend \$3,250 in fuel costs over 5 years compared to the average new vehicle.

Annual fuel cost

\$2,350

Fuel Economy & Greenhouse Gas Rating (tailpipe only)

1 4 10 Best

This vehicle emits 424 grams CO₂ per mile. The best emits 0 grams per mile (tailpipe only). Producing and distributing fuel also create emissions. Learn more at fuelconomy.gov.

Smog Rating (tailpipe only)

1 4 10 Best

This vehicle emits 424 grams CO₂ per mile. The best emits 0 grams per mile (tailpipe only). Producing and distributing fuel also create emissions. Learn more at fuelconomy.gov.

Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle gets 29 MPG and costs \$8,500 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at \$3.39 per gallon. MPG is miles per gasoline gallon equivalent. Vehicle emissions are a significant cause of climate change and smog.

fuelconomy.gov
Calculate personalized estimates and compare vehicles

Smartphone QR Code



PARTS CONTENT INFORMATION

FOR VEHICLES IN THIS CARLINE
U.S./Canadian Parts Content: **65 %**

NOTE: Parts content does not include final assembly, distribution or other non-parts costs.

FOR THIS VEHICLE
Final Assembly Point:
LINCOLN, ALABAMA USA
Country of Origin: Engine:
U.S.A.
Transmission:
U.S.A.

GOVERNMENT 5-STAR SAFETY RATING

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	Not Rated
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 Rear seat	Not Rated
Based on the risk of injury in a side impact.		
Rollover		Not Rated
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

Photo No. 102 - Monroney Label

⚠ WARNING

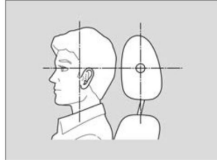
Reclining the seat-back too far can result in serious injury or death in a crash.
Adjust the seat-back to an upright position, and sit well back in the seat.

⚠ WARNING

Sitting improperly or out of position can result in serious injury or death in a crash.
Always sit upright, well back in the seat, with your feet on the floor.

Head Restraints

Your vehicle is equipped with head restraints in all seating positions.

■ Adjusting the front and rear outer seat head restraint positions

Head restraints are most effective for protection against whiplash and other rear-impact crash injuries when the center of the back of the occupant's head rests against the center of the restraint. The tops of the occupant's ears should be level with the center height of the restraint.

Position head in the center of the head restraint.

In order for the head restraint system to work properly:

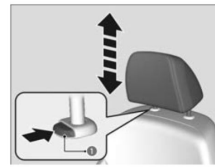
- Do not hang any items on the head restraints, or from the restraint legs.
- Do not place any objects between an occupant and the seat-back.
- Install each restraint in its proper location.

⚠ WARNING

Improperly positioning head restraints reduces their effectiveness and increases the likelihood of serious injury in a crash.
Make sure head restraints are in place and positioned properly before driving.

⚠ WARNING

Failure to reinstall or correctly reinstall, the head restraints can result in severe injury during a crash.
Always replace the head restraints before driving.

Adjusting the Front Seat Positions**■ Adjusting the front power seat(s)****1 Release Button****To raise the head restraint:**

Pull it upward.

To lower the head restraint:

Push it down while pressing the release button.

To remove the head restraint:

Pull the restraint up as far as it will go. Then, push the release button and pull the restraint up and out.

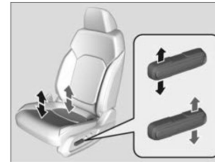
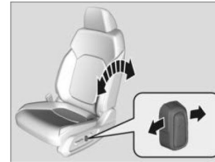
To reinstall a head restraint:

Insert the legs back in place, then adjust the head restraint to an appropriate height while pressing the release button.

» Pull up on the restraint to make sure it is locked in position.

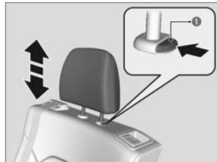
Seat-back Angle Adjustment:

Push forward or pull backward the switch to change the angle.

**Height Adjustment (Driver's seat only) :**

Pull up or push down the switch to raise or lower the seat.

Photo No. 103 - Driver Head Restraint Use and Adjustment Information from Vehicle Owner's Manual

Adjusting the Rear Outer and Center Seat Positions**1 Release Button****▼ Rear outer seat head restraints****To raise the head restraint:**

Pull it upward.

To lower the head restraint:

Push it down while pressing the release button.

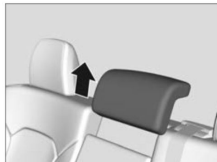
To remove a head restraint:

Pull the restraint up as far as it will go. Then, push the release button and pull the restraint up and out.

To reinstall a head restraint:

Insert the legs back in place, then adjust the head restraint to an appropriate height while pressing the release button.

» Pull up on the restraint to make sure it is locked in position.

**▼ Rear center seat head restraint**

A passenger sitting in the rear seat should adjust the height of their head restraint to an appropriate position before the vehicle begins moving.

To raise the head restraint:

Pull it upward.

To lower the head restraint:

Push it down while pressing the left release button.

To remove a head restraint:

Pull the restraint up as far as it will go. Then push the release buttons which are located on both legs at the same time, and pull the restraint up and out.

To reinstall a head restraint:

Insert the legs back in place, then adjust the head restraint to an appropriate height while pressing the left release button.

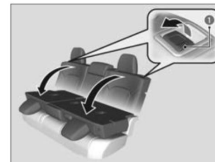
» Pull up on the restraint to make sure it is locked in position.

1 Release Button**■ Using the rear seat armrest**

Pull down the armrest in the center backrest.

■ Folding down the rear seats

The rear seats can be folded down separately to allow for additional storage space.

**1 Release Lever**

The rear seat-back(s) can be folded down to accommodate bulkier items in the cargo area.

Make sure that the folded seat-back does not press against the front passenger seat, as this can cause the weight sensors in the front passenger seat to work improperly.

Q Passenger Airbag Off Indicator ▶ P.43

The front seat(s) must be far enough forward so they do not interfere with the rear seats as they fold down.

Make sure the seat-back, head restraints and seat cushion are securely latched back into place before driving. Also, make sure all rear shoulder belts are positioned in front of the seat-back.

To lock a seat-back upright, push it backwards until it locks, so that the red tabs in the release lever go down.

When returning the seat-back to its original position, push it firmly back.

- 1** Make sure all items in the cargo area or items extending to the rear seats are properly secured. Loose items can fly forward if you have to brake hard.

Photo No. 104 - Left Rear Passenger Head Restraint Use and Adjustment Information from Vehicle Owner's Manual

APPENDIX B
DUMMY RESPONSE DATA PLOTS

TABLE OF DATA PLOTS
Driver Dummy Instrumentation Plots

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Figure No. 13.	Driver Pubic Symphysis Force (Y) vs. Time	B-4
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Figure No. 16.	Passenger Head Acceleration (Z) Primary vs. Time	B-5
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Figure No. 24.	Passenger Total Pelvic Force on Impact Side (Y) vs. Time	B-7

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.gov

Additional Driver & Passenger Dummy Instrumentation Data

Passenger Head Angular Velocity (X)
Passenger Head Angular Velocity (Y)
Passenger Head Angular Velocity (Z)
Driver Lower Spine T12 Acceleration (X)
Driver Lower Spine T12 Acceleration (Y)
Driver Lower Spine T12 Acceleration (Z)
Passenger Upper Thorax Rib Deflection (Y)
Passenger Middle Thorax Rib Deflection (Y)
Passenger Lower Thorax Rib Deflection (Y)
Passenger Upper Abdomen Rib Deflection (Y)
Passenger Lower Abdomen Rib Deflection (Y)
Driver Head Acceleration Redundant (X)
Driver Head Acceleration Redundant (Y)
Driver Head Acceleration Redundant (Z)
Passenger Head Acceleration Redundant (X)
Passenger Head Acceleration Redundant (Y)
Passenger Head Acceleration Redundant (Z)

Vehicle Instrumentation Data

Vehicle Center of Gravity Acceleration (X)
Vehicle Center of Gravity Acceleration (Y)
Vehicle Center of Gravity Acceleration (Z)
Right Side Sill at Front Seat Acceleration (X)
Right Side Sill at Front Seat Acceleration (Y)
Right Side Sill at Front Seat Acceleration (Z)
Right Side Sill at Rear Seat Acceleration (X)
Right Side Sill at Rear Seat Acceleration (Y)
Right Side Sill at Rear Seat Acceleration (Z)
Left Side Sill at Front Seat Acceleration (Y)
Left Side Sill at Rear Seat Acceleration (Y)
Lower A-Post Acceleration (Y)
Middle A-Post Acceleration (Y)
Lower B-Post Acceleration (Y)
Middle B-Post Acceleration (Y)
Front Seat Track Acceleration (Y)
Rear Seat Track Acceleration (Y)
Right Rear Occupant Compartment Acceleration (Y)
Engine Block (X)
Engine Block (Y)
Rear Floorpan Above Axle Acceleration (X)
Rear Floorpan Above Axle Acceleration (Y)
Rear Floorpan Above Axle Acceleration (Z)

MDB Instrumentation Data

MDB Center of Gravity Acceleration (X)

MDB Center of Gravity Acceleration (Y)

MDB Center of Gravity Acceleration (Z)

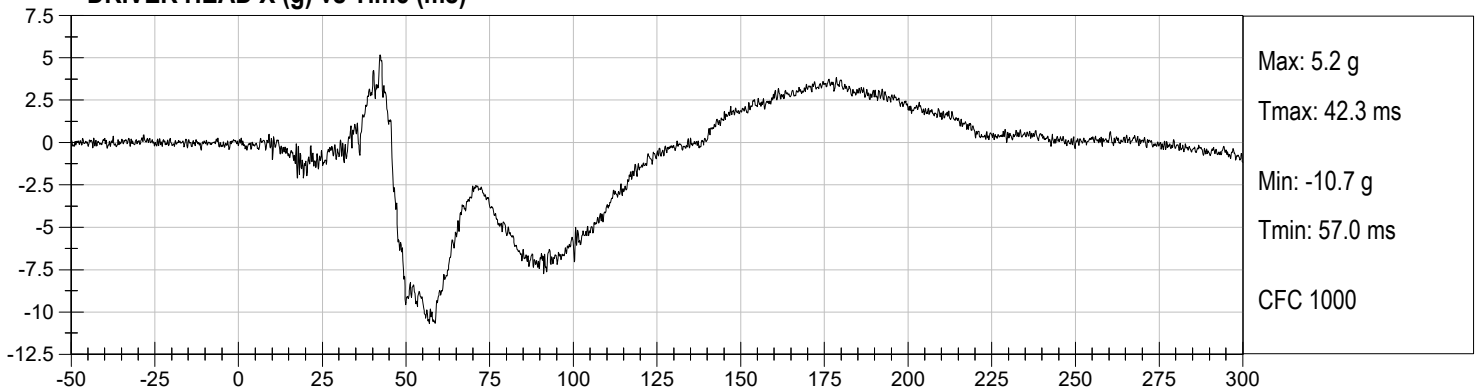
MDB Rear Acceleration (X)

MDB Rear Acceleration (Y)

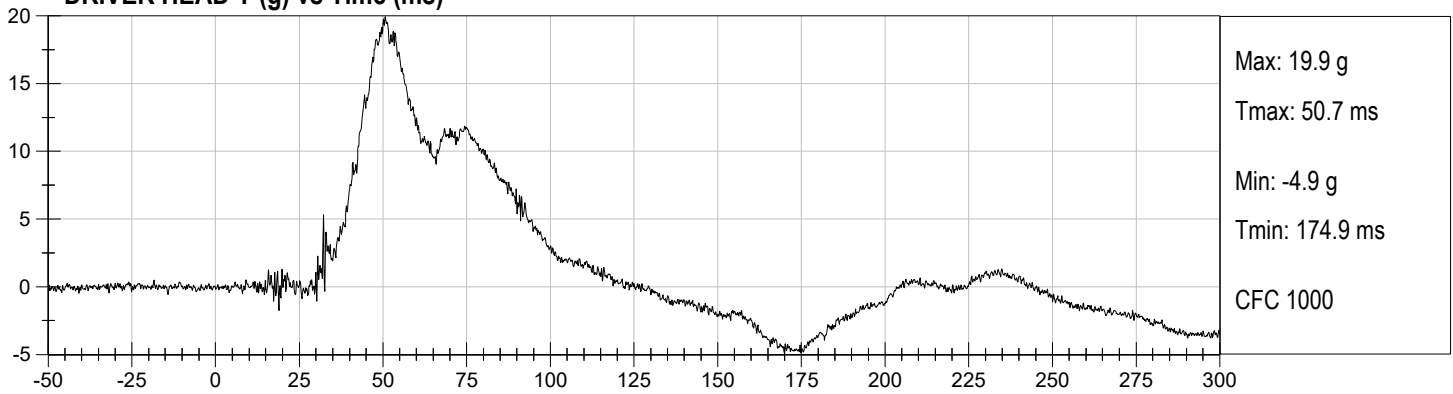
Left MDB Contact Switch

Right MDB Contact Switch

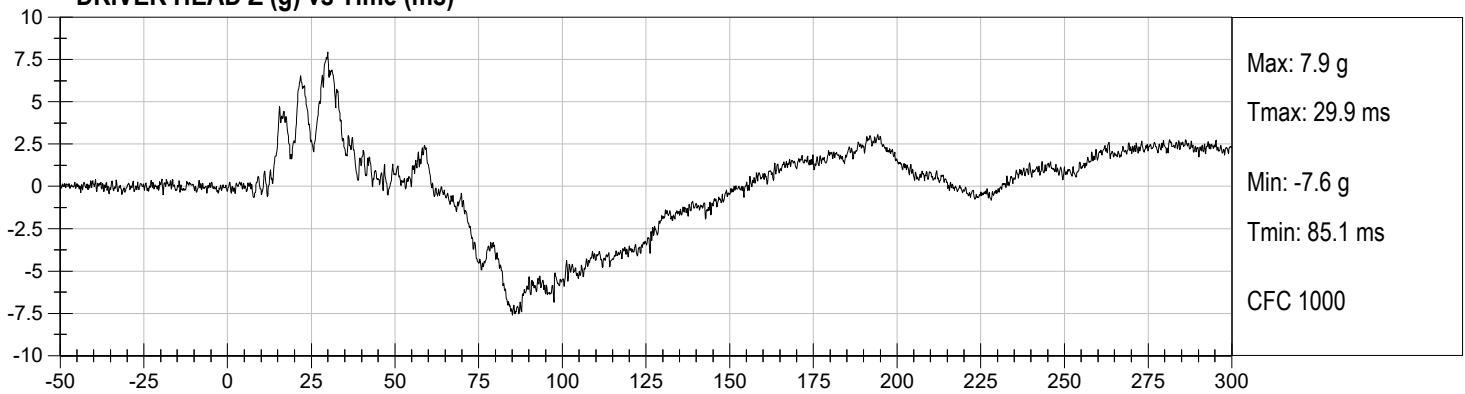
DRIVER HEAD X (g) vs Time (ms)



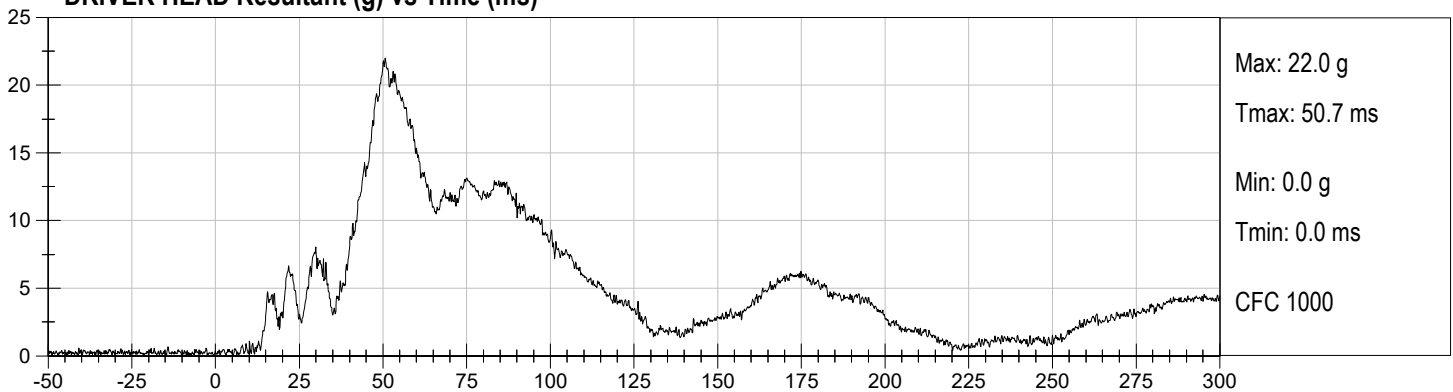
DRIVER HEAD Y (g) vs Time (ms)



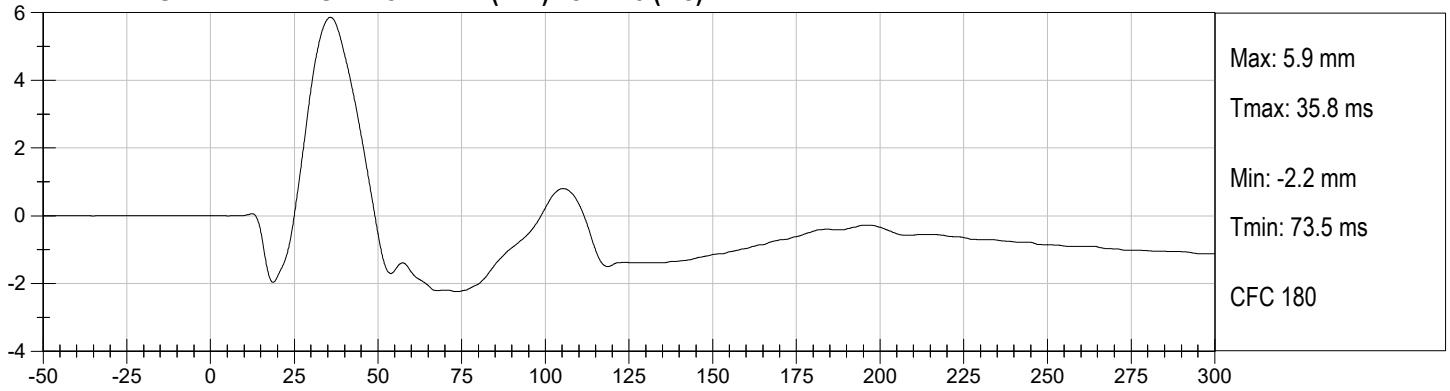
DRIVER HEAD Z (g) vs Time (ms)



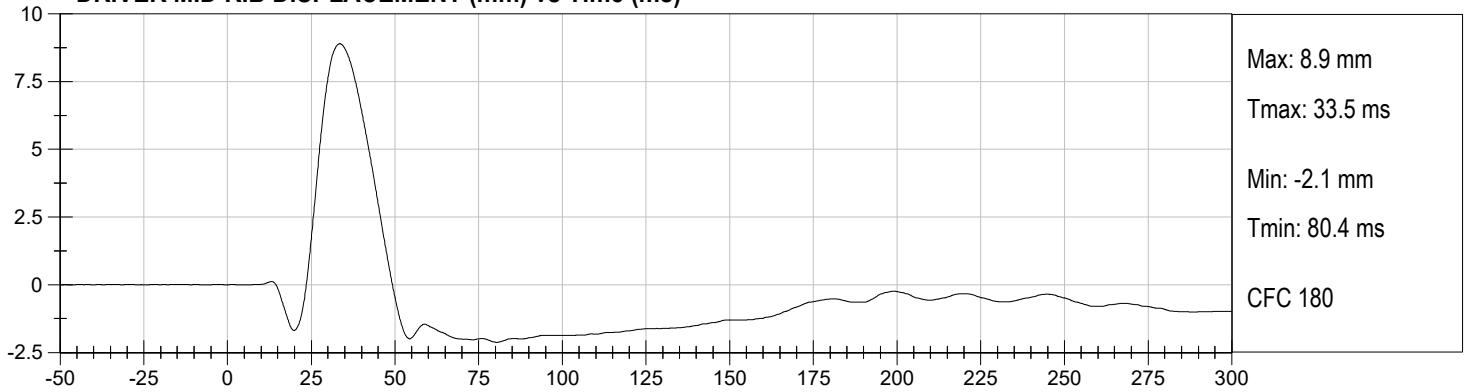
DRIVER HEAD Resultant (g) vs Time (ms)



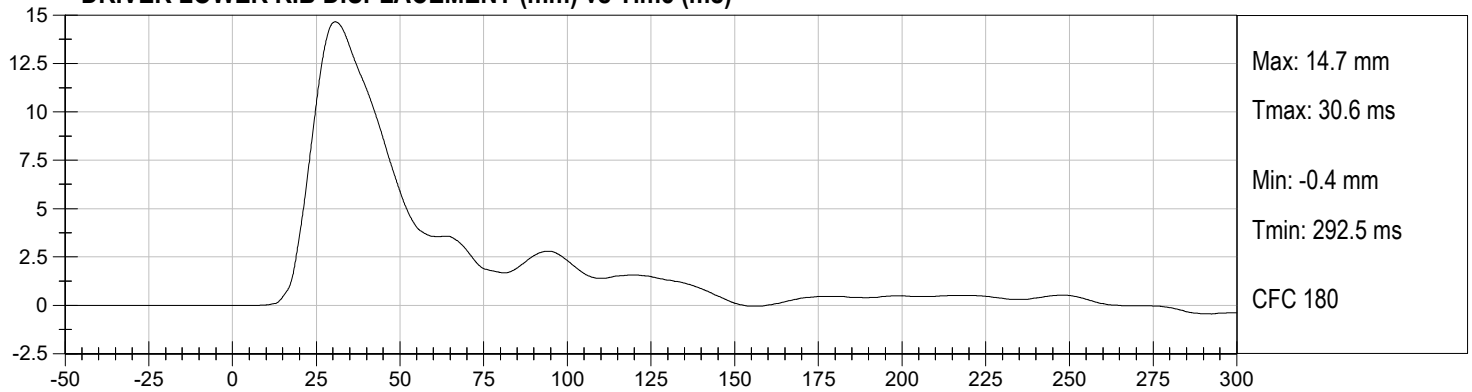
DRIVER UPPER RIB DISPLACEMENT (mm) vs Time (ms)



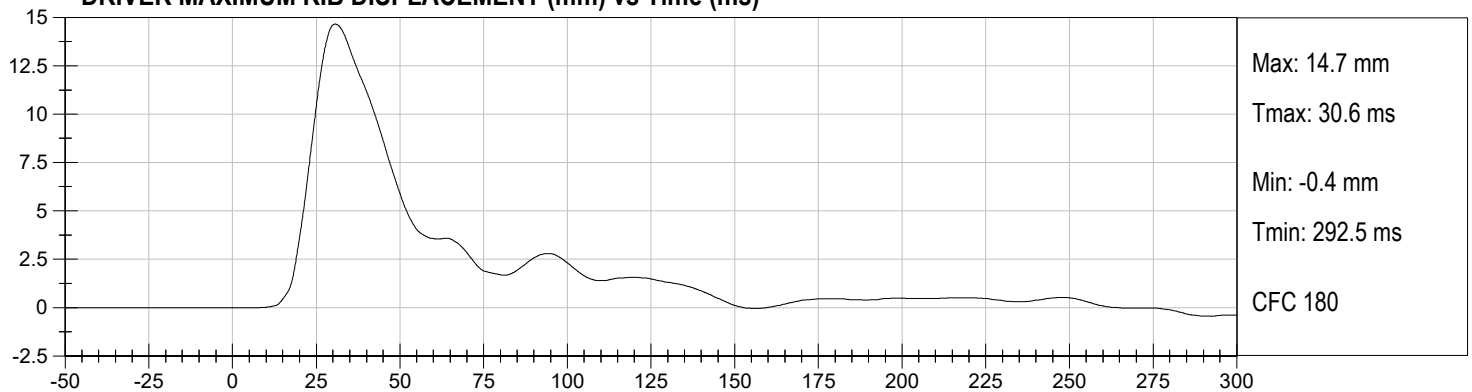
DRIVER MID RIB DISPLACEMENT (mm) vs Time (ms)



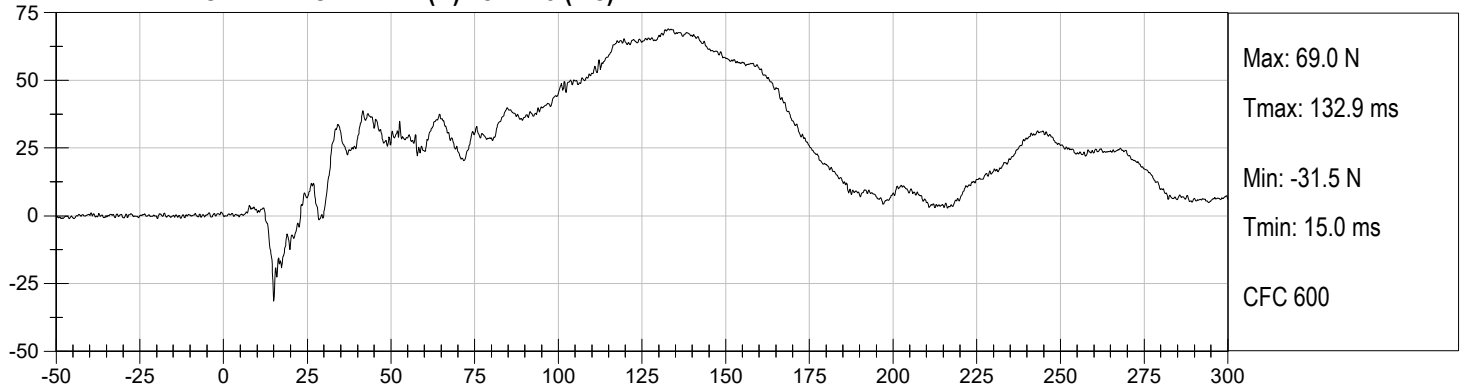
DRIVER LOWER RIB DISPLACEMENT (mm) vs Time (ms)



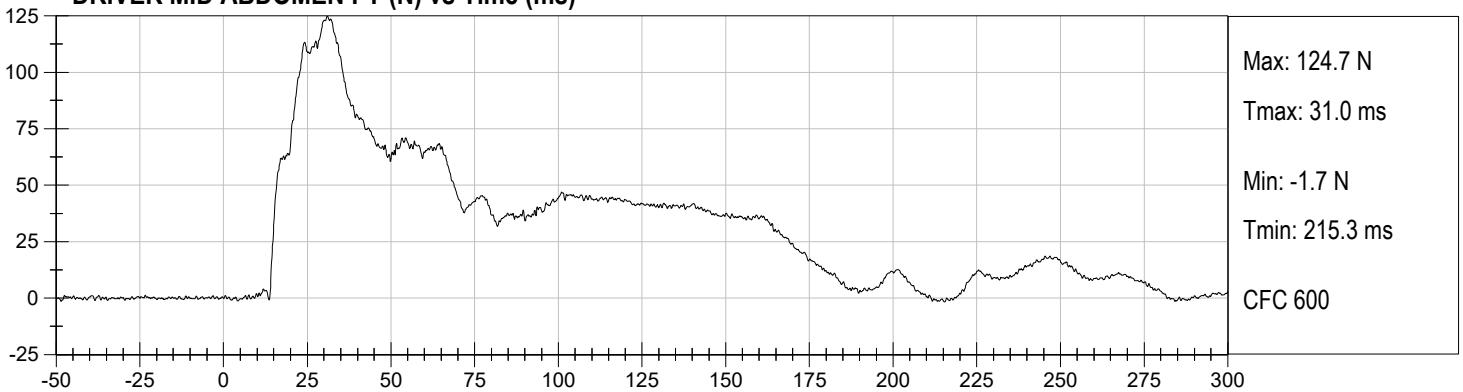
DRIVER MAXIMUM RIB DISPLACEMENT (mm) vs Time (ms)



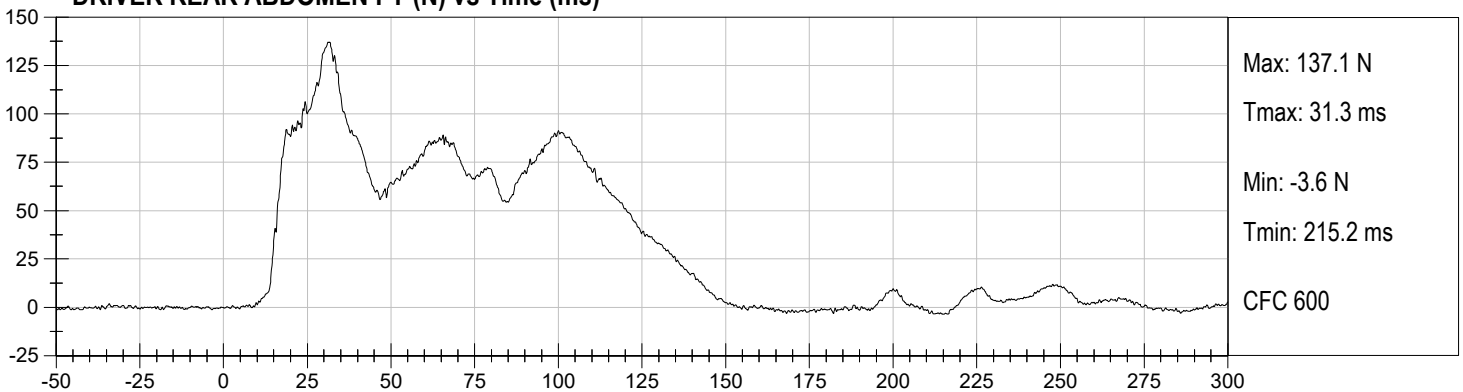
DRIVER FRONT ABDOMEN FY (N) vs Time (ms)



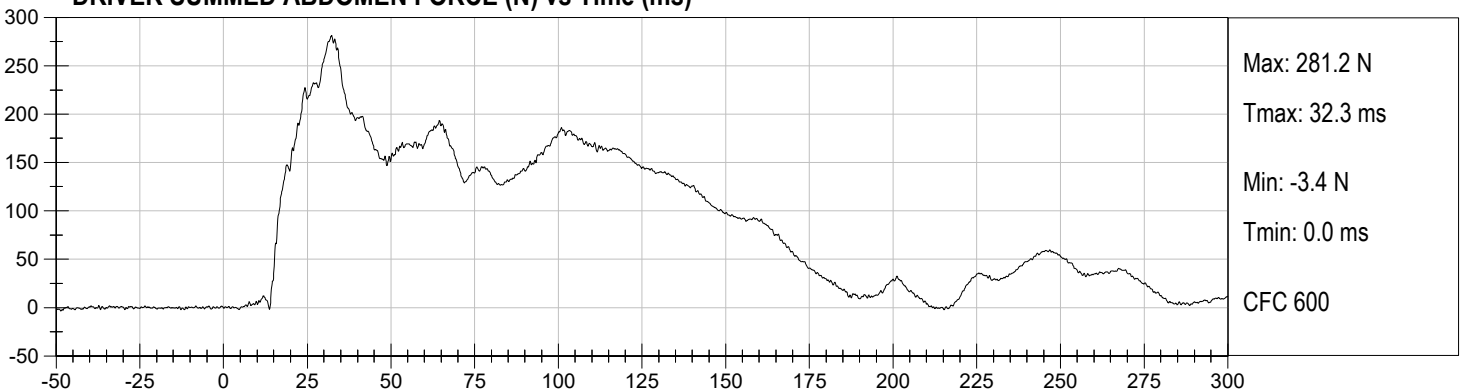
DRIVER MID ABDOMEN FY (N) vs Time (ms)

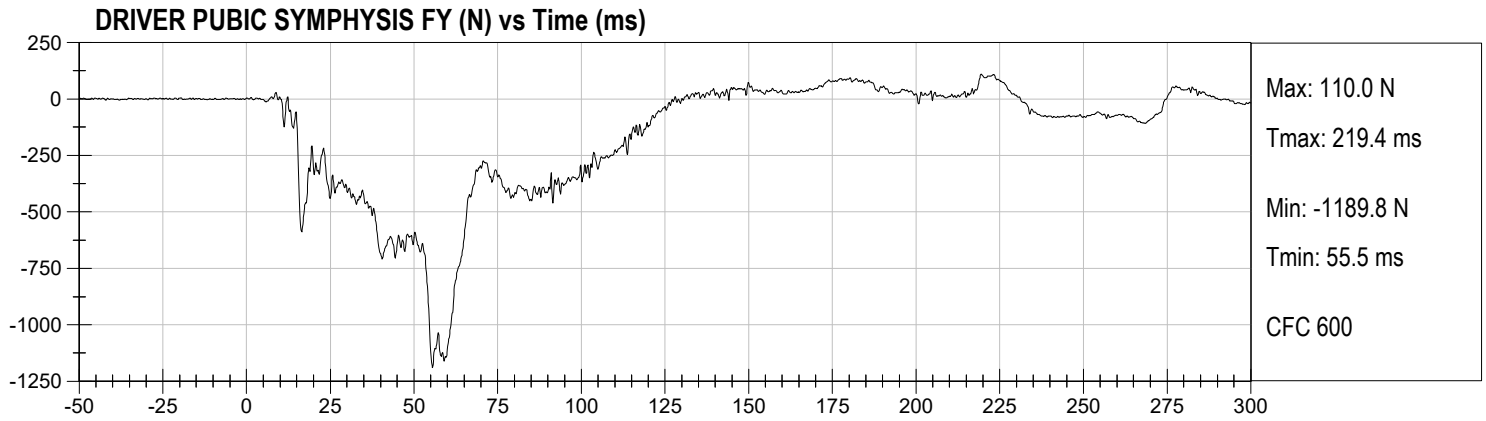


DRIVER REAR ABDOMEN FY (N) vs Time (ms)

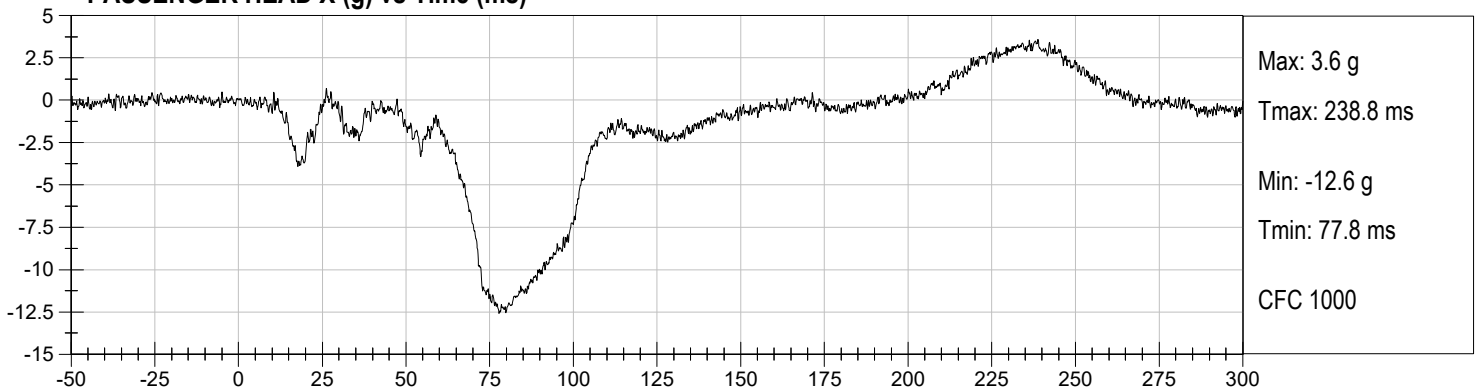


DRIVER SUMMED ABDOMEN FORCE (N) vs Time (ms)

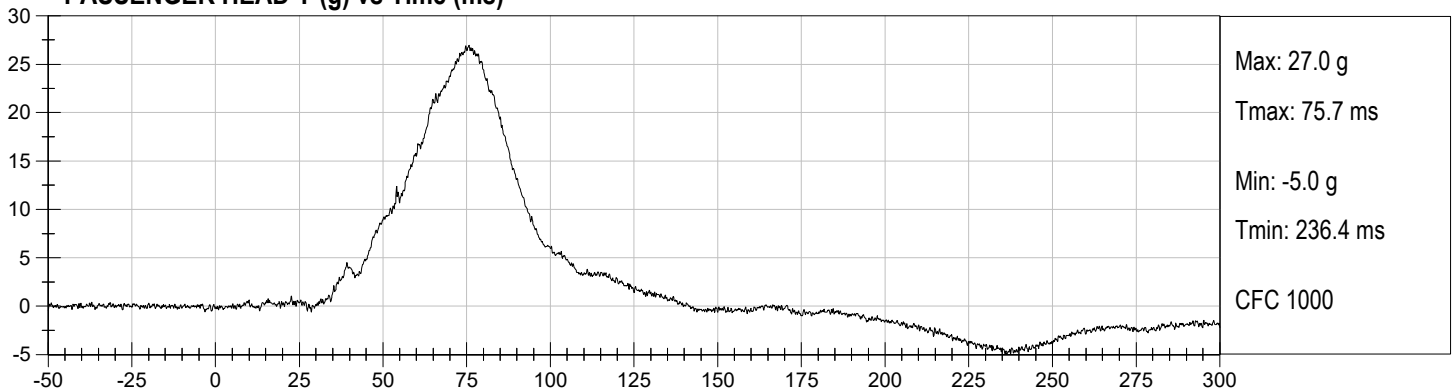




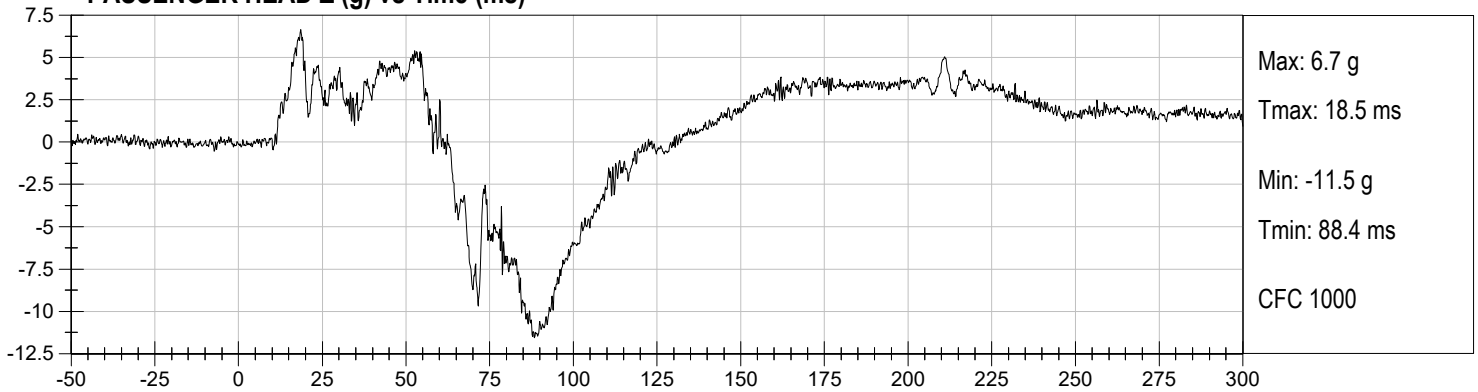
PASSENGER HEAD X (g) vs Time (ms)



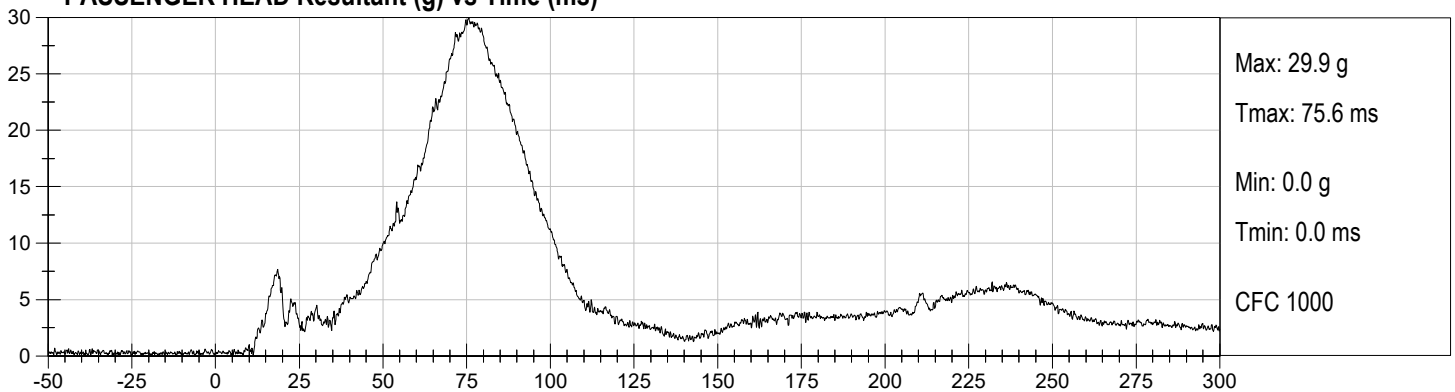
PASSENGER HEAD Y (g) vs Time (ms)



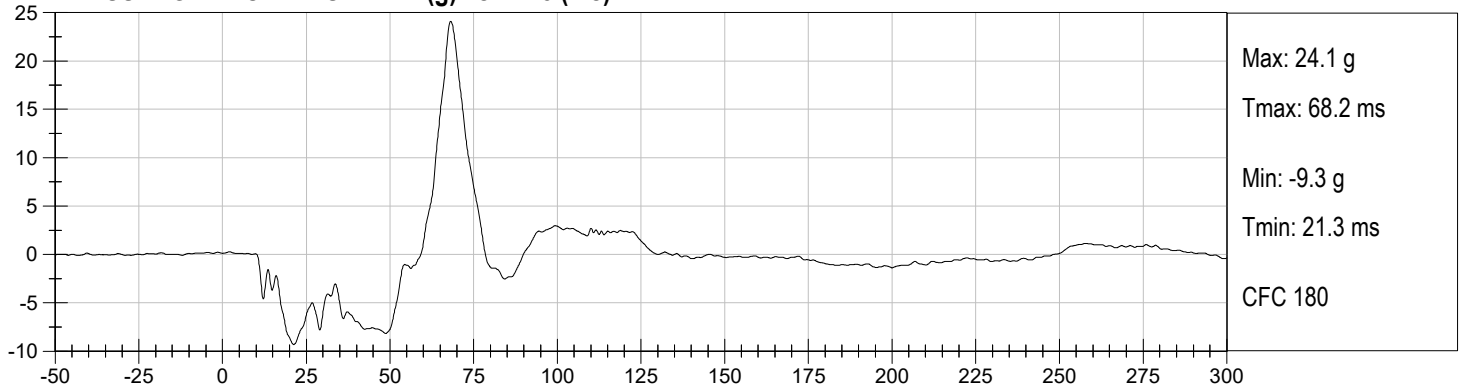
PASSENGER HEAD Z (g) vs Time (ms)



PASSENGER HEAD Resultant (g) vs Time (ms)



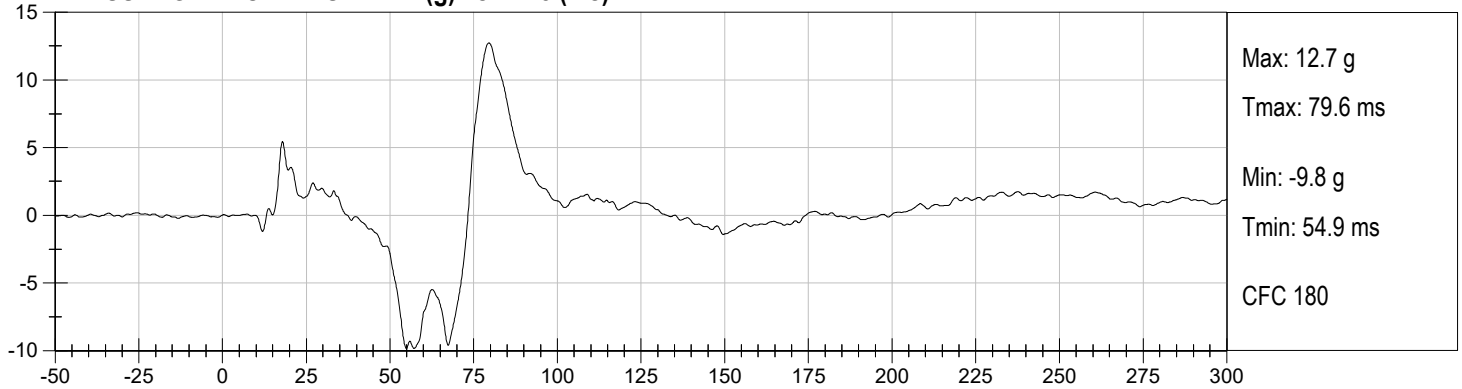
PASSENGER LOWER SPINE X (g) vs Time (ms)



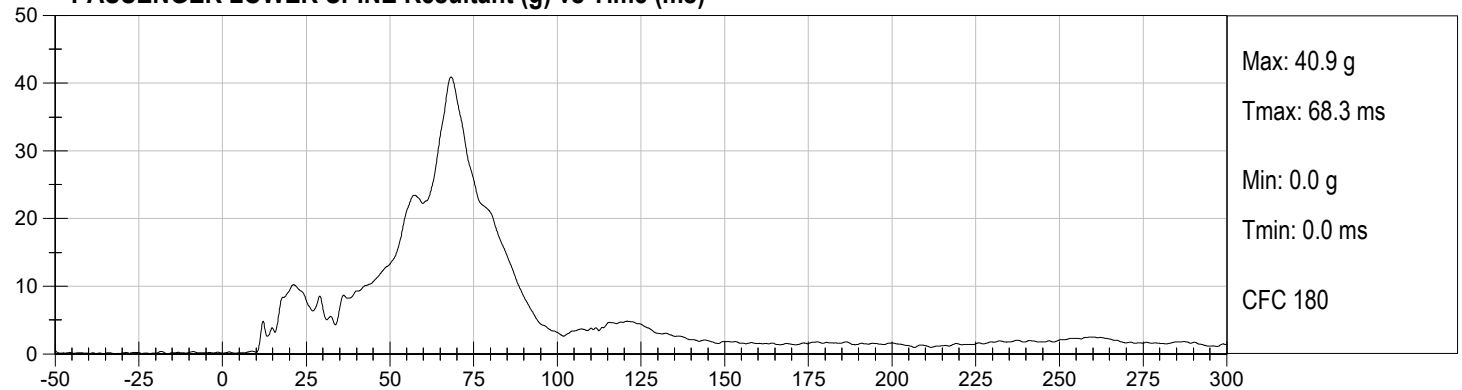
PASSENGER LOWER SPINE Y (g) vs Time (ms)



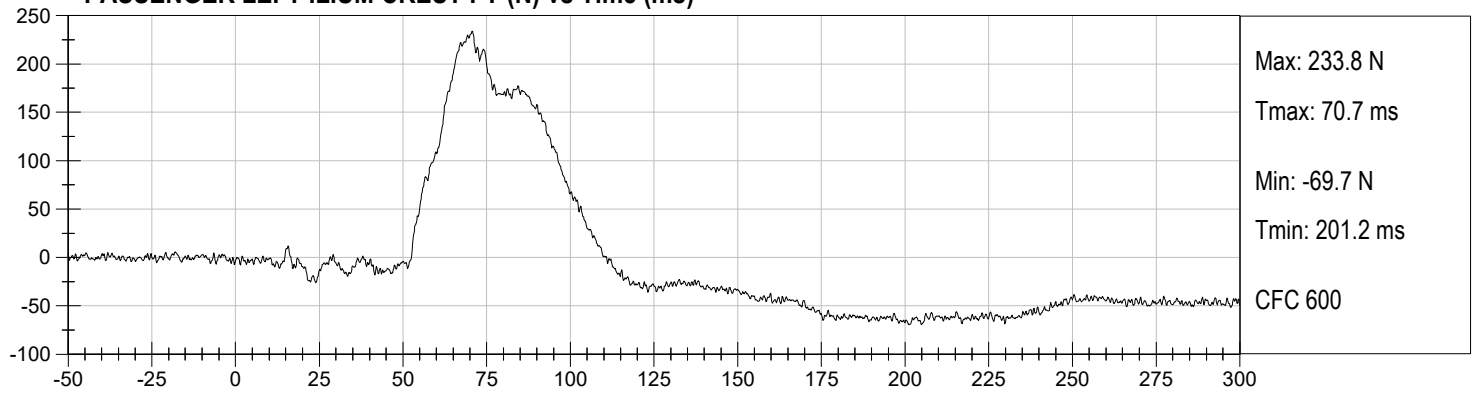
PASSENGER LOWER SPINE Z (g) vs Time (ms)



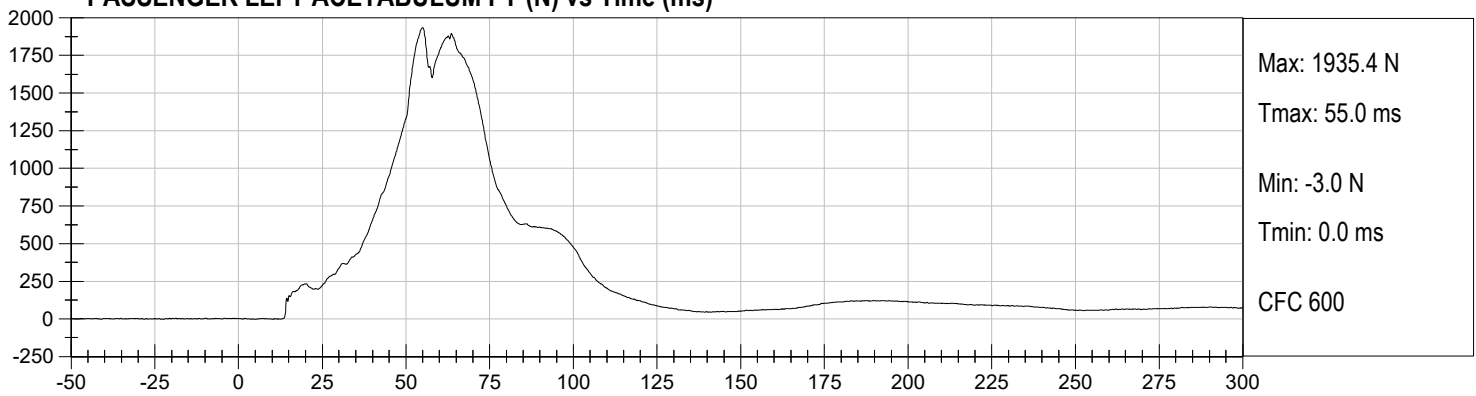
PASSENGER LOWER SPINE Resultant (g) vs Time (ms)



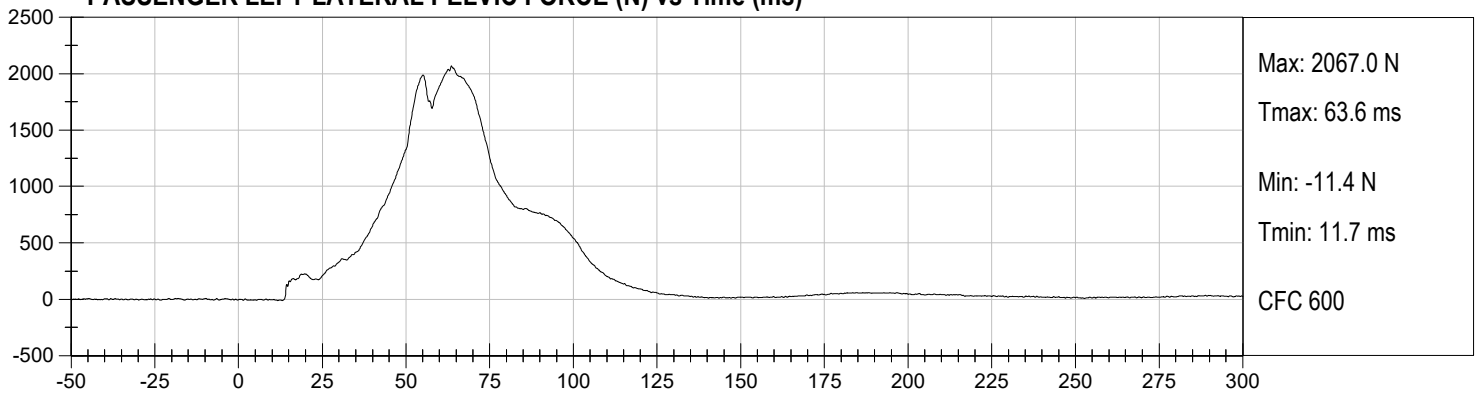
PASSENGER LEFT ILIUM CREST FY (N) vs Time (ms)



PASSENGER LEFT ACETABULUM FY (N) vs Time (ms)



PASSENGER LEFT LATERAL PELVIC FORCE (N) vs Time (ms)



APPENDIX C
DUMMY QUALIFICATION AND PERFORMANCE VERIFICATION

QUALIFICATION TEST RESULTS

PRE-TEST

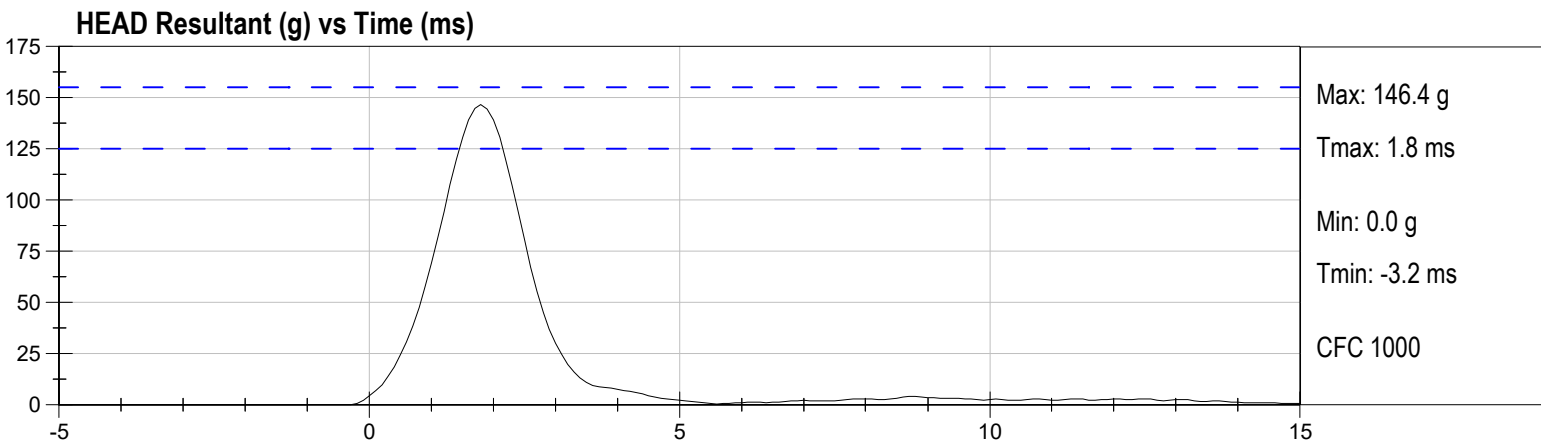
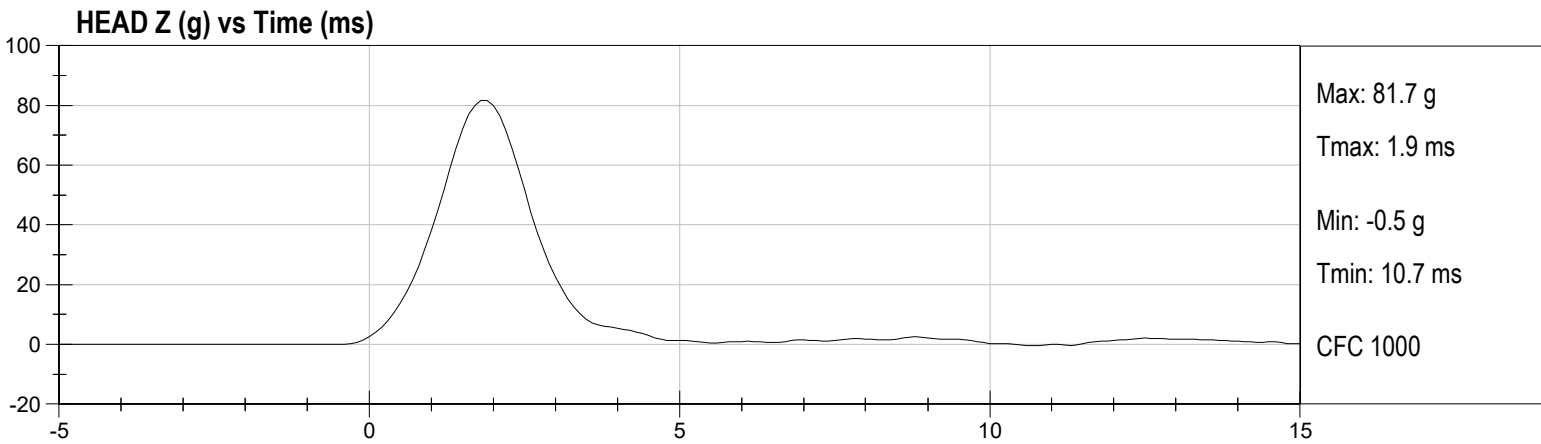
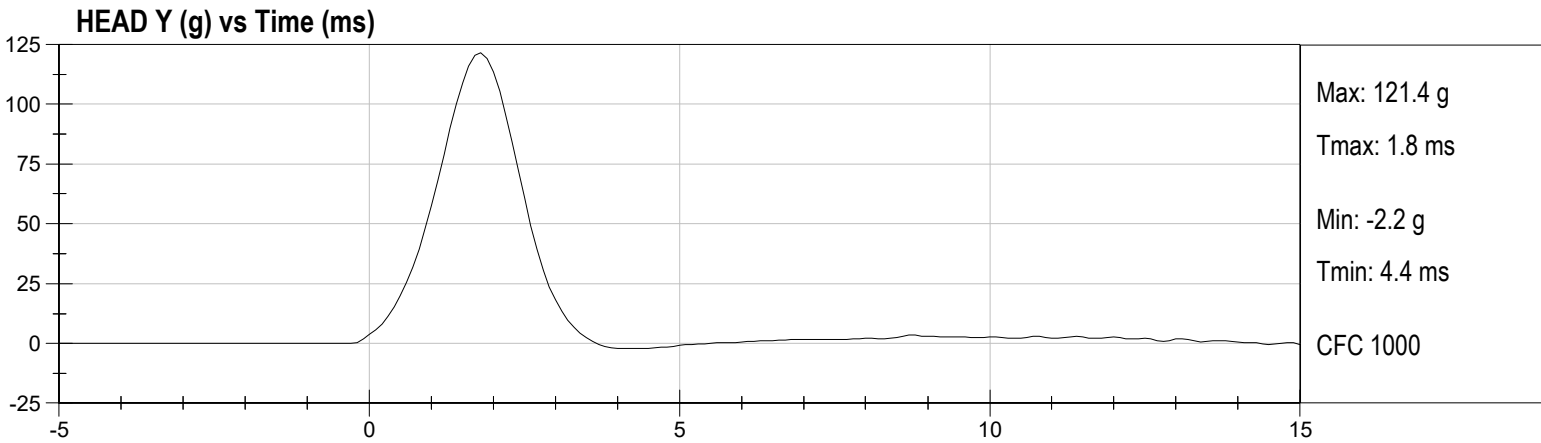
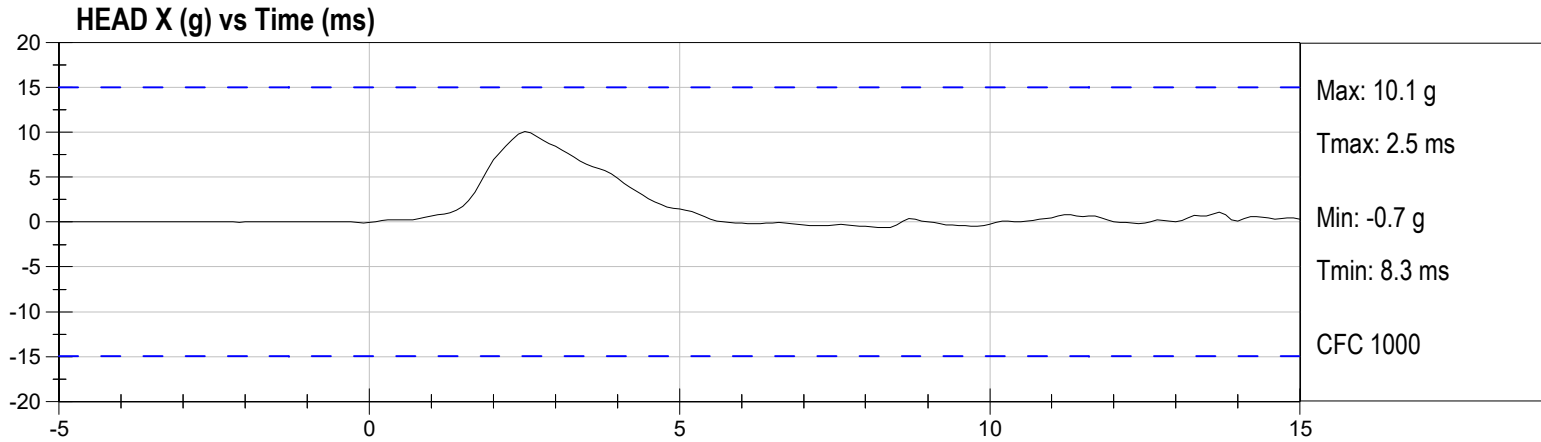
EUROSID 2 (ES-2RE) MALE – DRIVER ATD

ES-2re External Measurements
SN: F032

No.	Name	Spec. (mm)	Result	Pass/Fail
1	Sitting Height	900 - 918	915	Pass
2	Seat to Shoulder Joint	558 - 572	568	Pass
3	Seat to Lower Face of Thoracic Spine Box	346 - 356	355	Pass
4	Seat to Hip Joint (center of bolt)	97 - 103	98	Pass
5	Sole to Seat, Sitting	333 - 451	440	Pass
6	Head Width	152 - 158	157	Pass
7	Shoulder/Arm Width	461 - 479	464	Pass
8	Thorax Width	322 - 332	323	Pass
9	Abdomen Width	273 - 287	281	Pass
10	Pelvis Lap Width	359 - 373	370	Pass
11	Head Depth	196 - 206	203	Pass
12	Thorax Depth	262 - 272	264	Pass
13	Abdomen Depth	194 - 204	196	Pass
14	Pelvis Depth	235 - 245	236	Pass
15	Back of Buttocks to Hip Joint (center of bolt)	150 - 160	151	Pass
16	Back of Buttocks to Front Knee	597 - 615	607	Pass

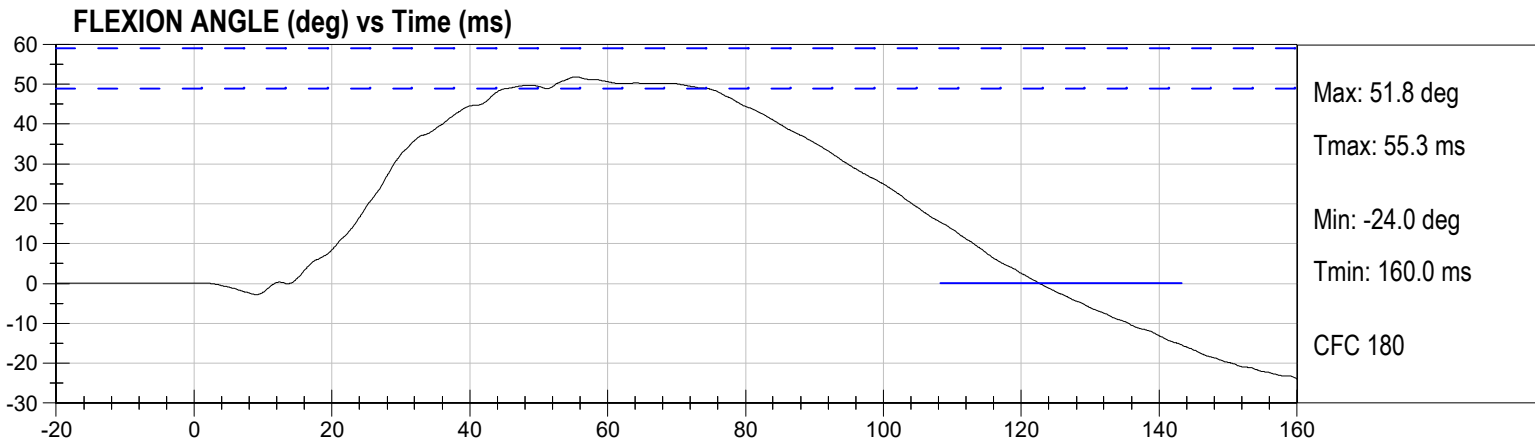
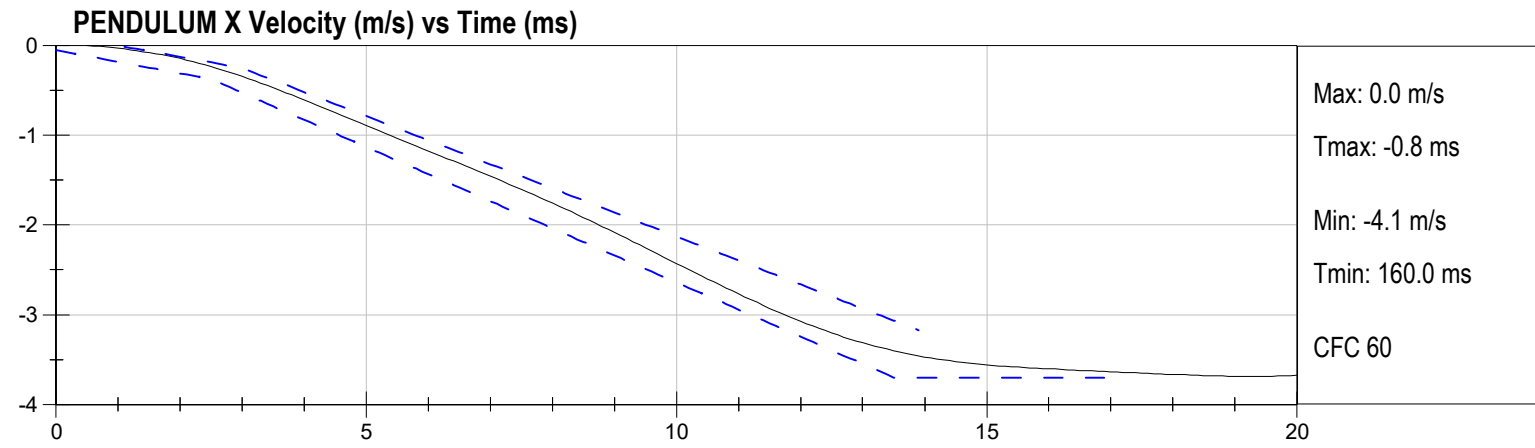
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	40	Pass
Peak Resultant Acceleration	g	125 to 155	146	Pass
Peak Longitudinal Acceleration	g	-15 to 15	10.1	Pass
Unimodal	%	within 15% of peak	3	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
HEAD X	Endevco	P78728	08/14/2025	2/13/2026
HEAD Y	Endevco	P78732	08/14/2025	2/13/2026
HEAD Z	Endevco	P78739	08/14/2025	2/13/2026

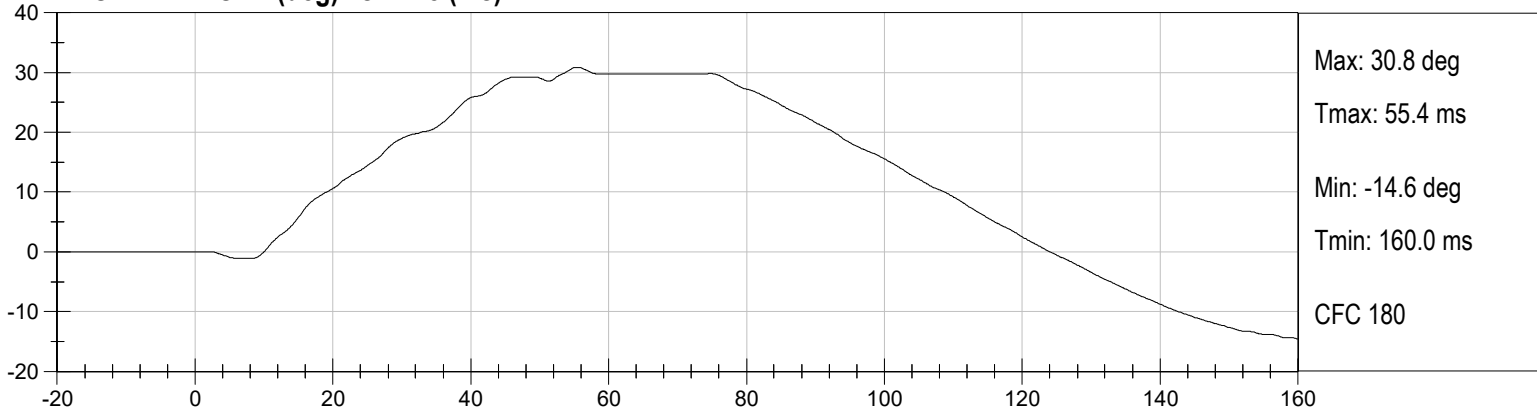


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	40	Pass
Impact Velocity	m/s	3.30 to 3.50	3.36	Pass
Pendulum Velocity Within Corridor	m/s	Within	Yes	Pass
Maximum Flexion Angle	deg	49 to 59	51.8	Pass
Time of Maximum Flexion Angle	ms	54 to 66	55.3	Pass
Decay Time to Zero Crossing	ms	53 to 88	67.5	Pass

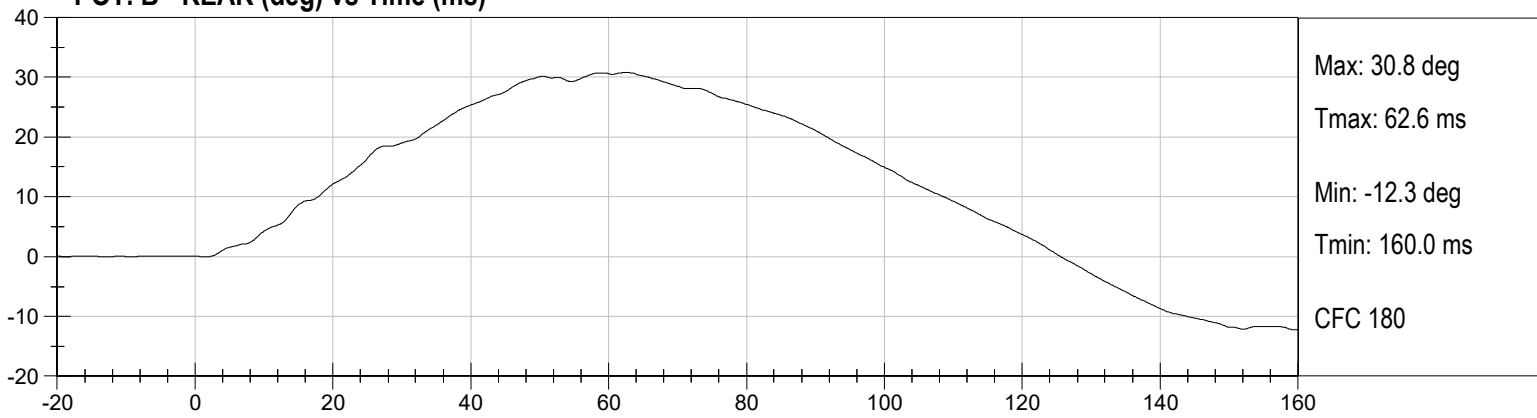
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PEND. ACCEL.	Endevco	AH5P1	07/09/2025	1/8/2026
POT. B - REAR	Spectrol	025_es2	07/15/2025	1/14/2026
POT. A - FRONT	Spectrol	027_es2	07/15/2025	1/14/2026
POT. C - HEADFORM	Spectrol	028_es2	07/15/2025	1/14/2026



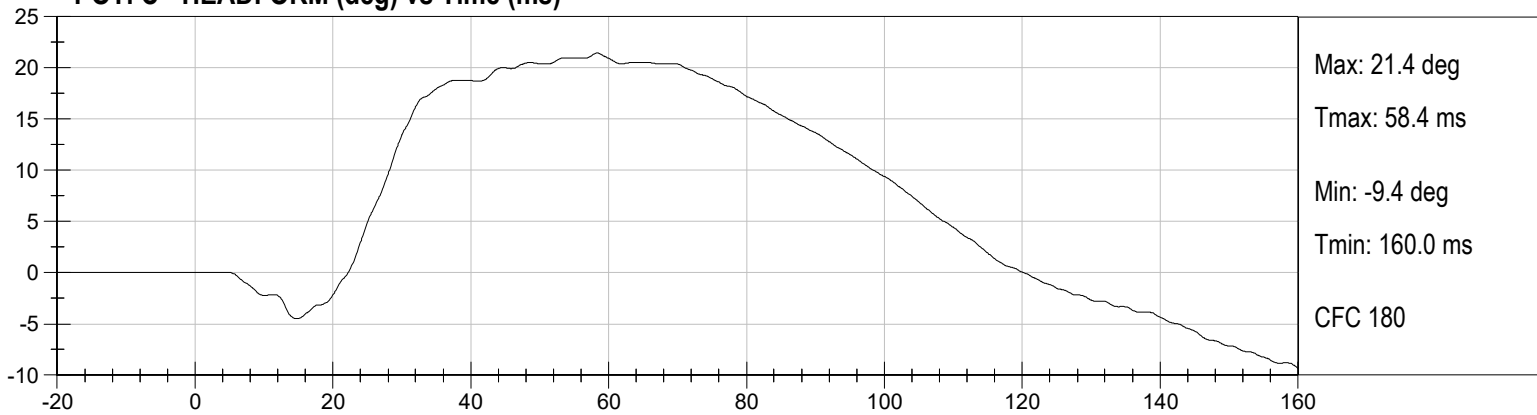
POT. A - FRONT (deg) vs Time (ms)



POT. B - REAR (deg) vs Time (ms)



POT. C - HEADFORM (deg) vs Time (ms)



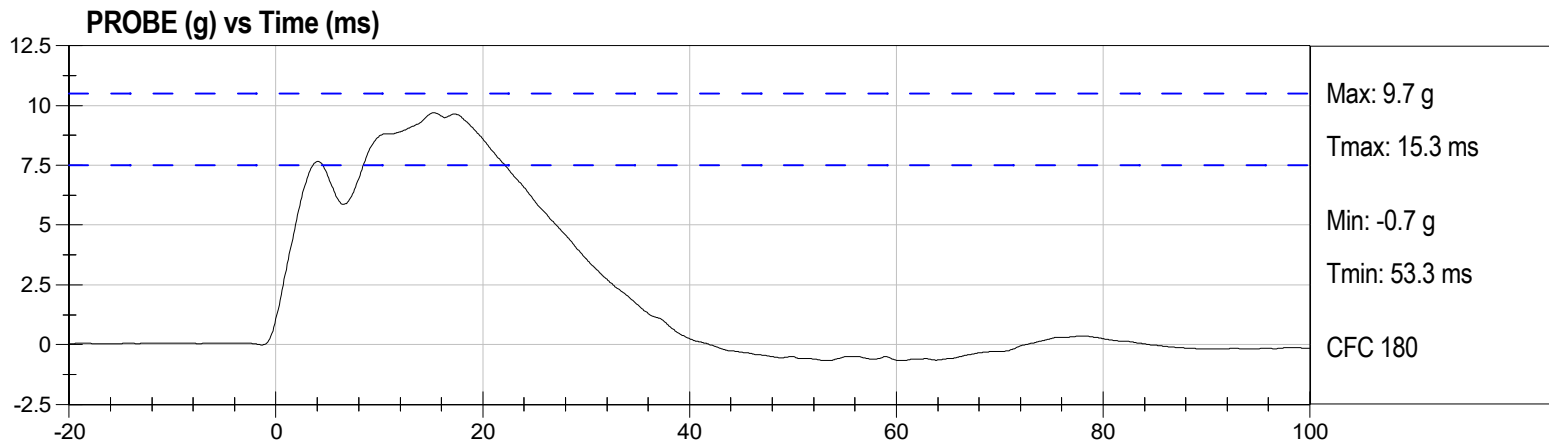


Shoulder Impact Test
ES2re
ATD Serial No: F032

Test Date: 09/04/2025
Test ID: D252543
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.0	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.3	Pass
Peak Probe Acceleration	G's	7.5 to 10.5	9.7	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025



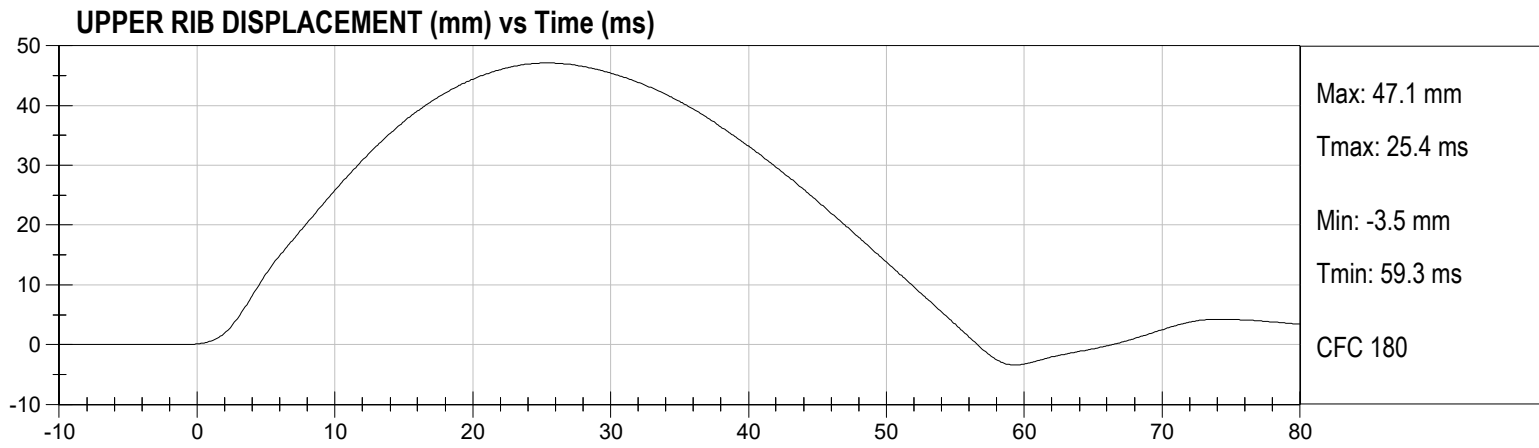


Upper Rib Drop Test - 815mm
ES2re
ATD Serial No: F032

Test Date: 09/04/2025
Test ID: D252544H
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Rib Deflection at 815 mm	mm	46 to 51	47.1	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
UPPER RIB DISPLACEMENT	Honeywell	G236	05/15/2025	11/14/2025



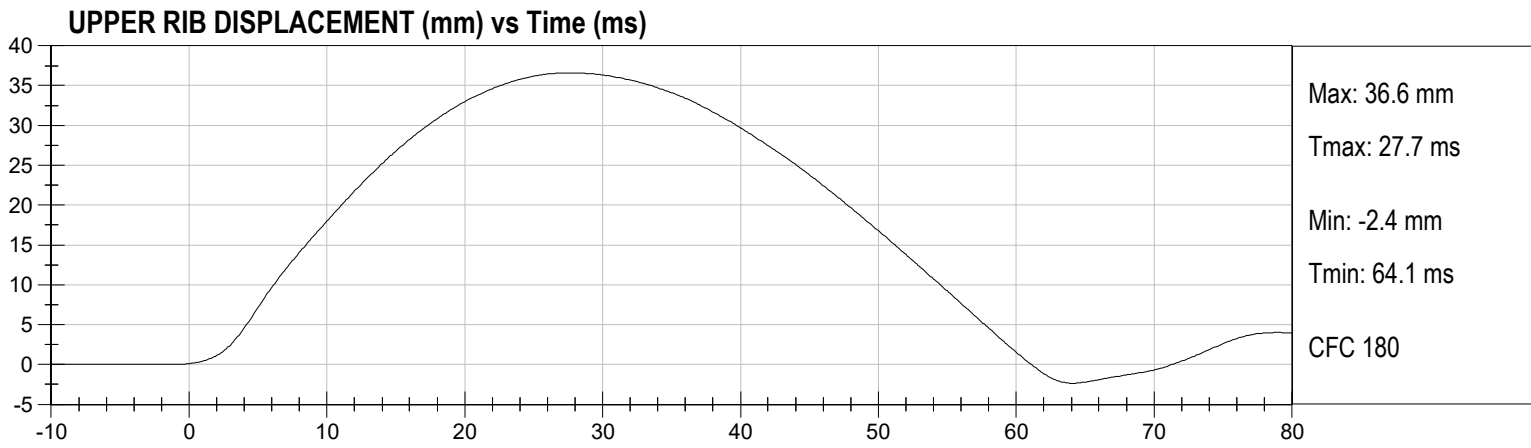


Upper Rib Drop Test - 459mm
ES2re
ATD Serial No: F032

Test Date: 09/04/2025
Test ID: D252544L
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Rib Deflection at 459 mm	mm	36 to 40	36.6	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
UPPER RIB DISPLACEMENT	Honeywell	G236	05/15/2025	11/14/2025



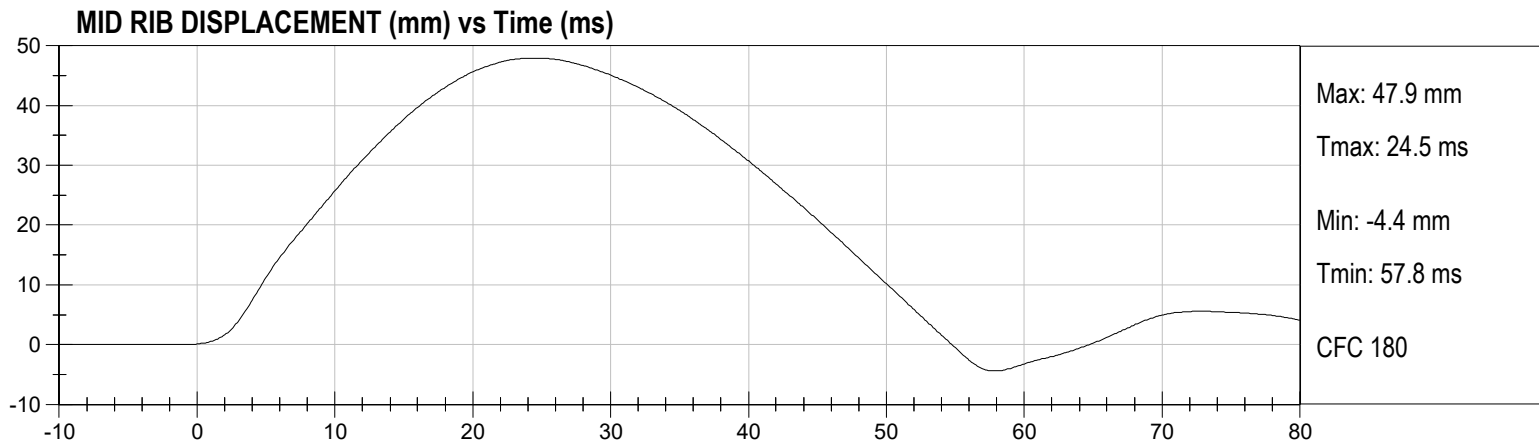


Middle Rib Drop Test - 815mm
ES2re
ATD Serial No: F032

Test Date: 09/04/2025
Test ID: D252545H
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Rib Deflection at 815 mm	mm	46 to 51	47.9	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
MID RIB DISPLACEMENT	Honeywell	G368	05/15/2025	11/14/2025



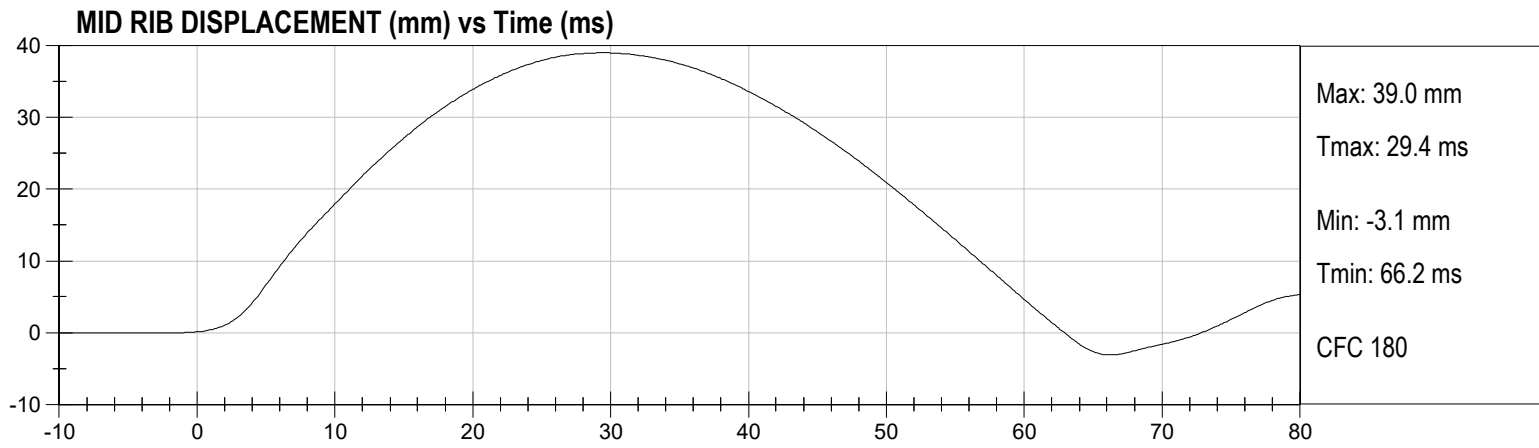


Middle Rib Drop Test - 459mm
ES2re
ATD Serial No: F032

Test Date: 09/04/2025
Test ID: D252545L
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Rib Deflection at 459 mm	mm	36 to 40	39.0	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
MID RIB DISPLACEMENT	Honeywell	G368	05/15/2025	11/14/2025



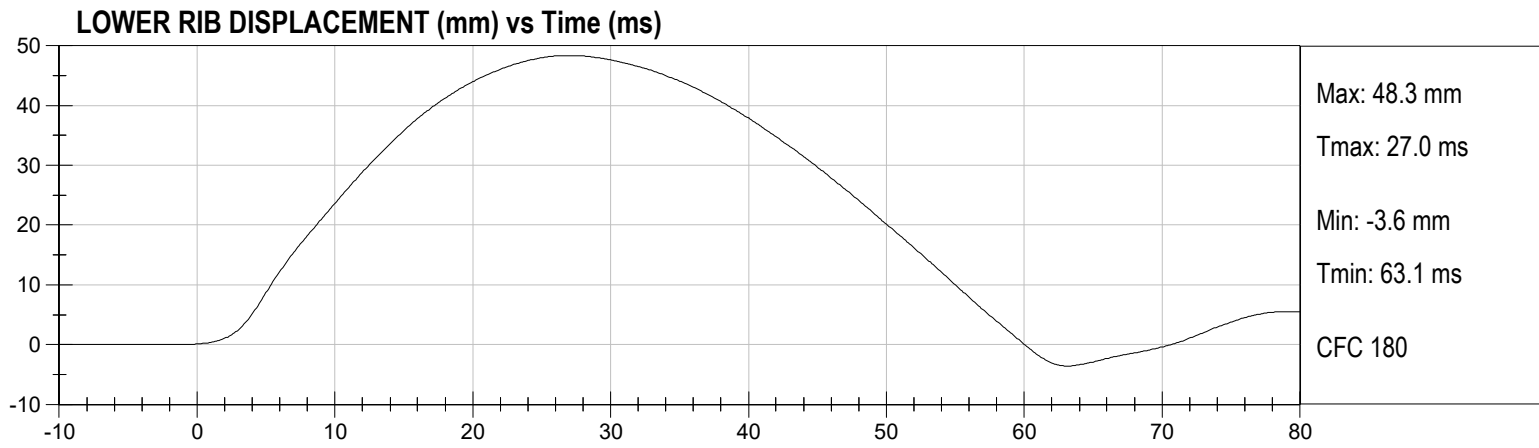


Lower Rib Drop Test - 815mm
ES2re
ATD Serial No: F032

Test Date: 09/04/2025
Test ID: D252546H
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Rib Deflection at 815 mm	mm	46 to 51	48.3	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
LOWER RIB DISPLACEMENT	Honeywell	G164	05/15/2025	11/14/2025



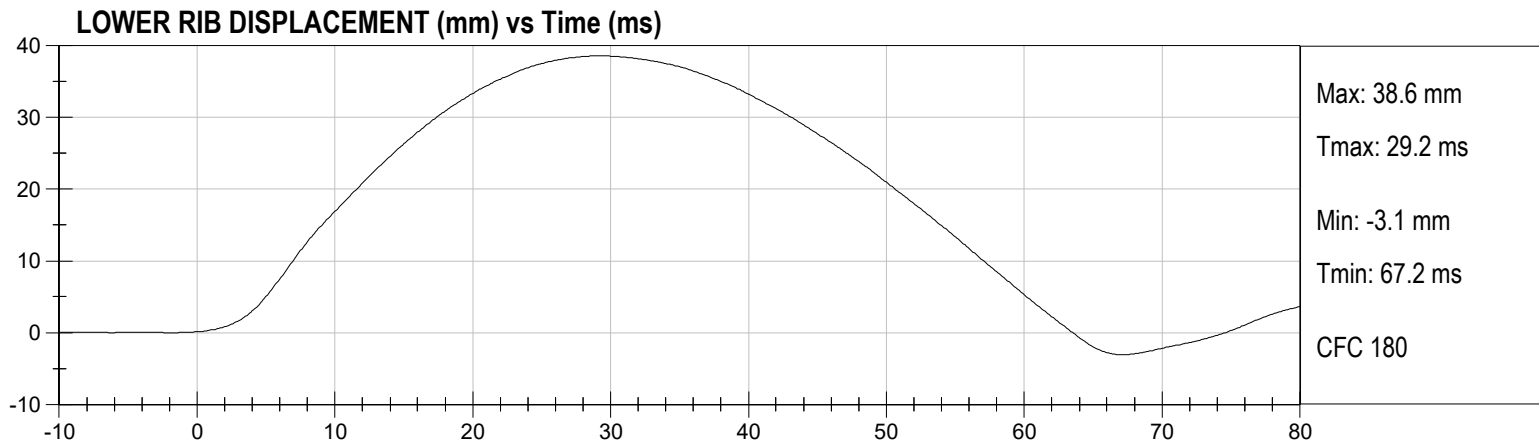


Lower Rib Drop Test - 459mm
ES2re
ATD Serial No: F032

Test Date: 09/04/2025
Test ID: D252546L
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Rib Deflection at 459 mm	mm	36 to 40	38.6	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
LOWER RIB DISPLACEMENT	Honeywell	G164	05/15/2025	11/14/2025



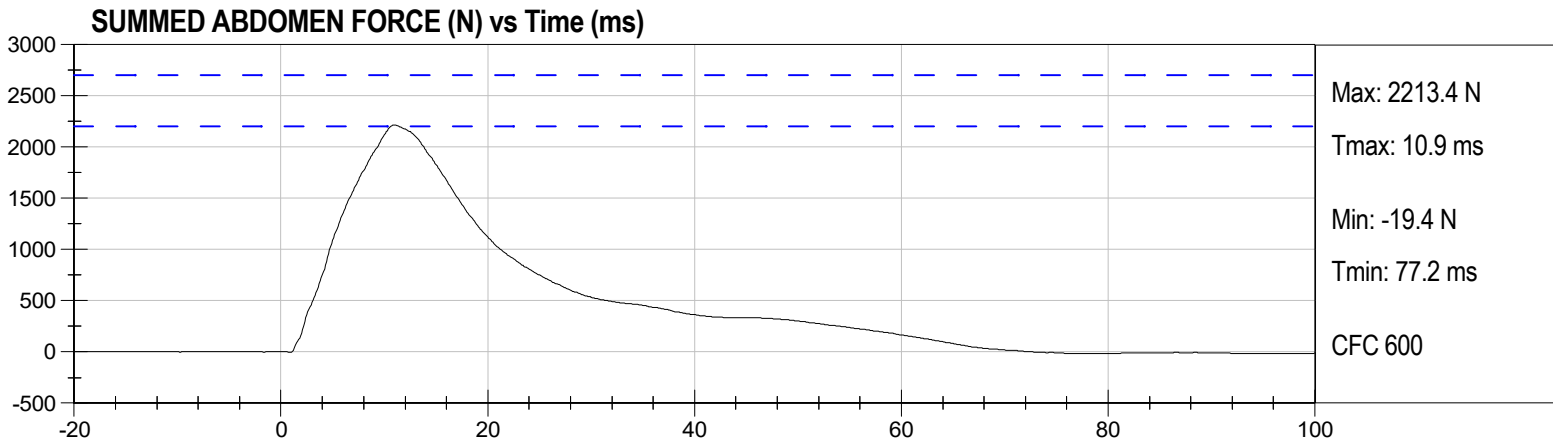
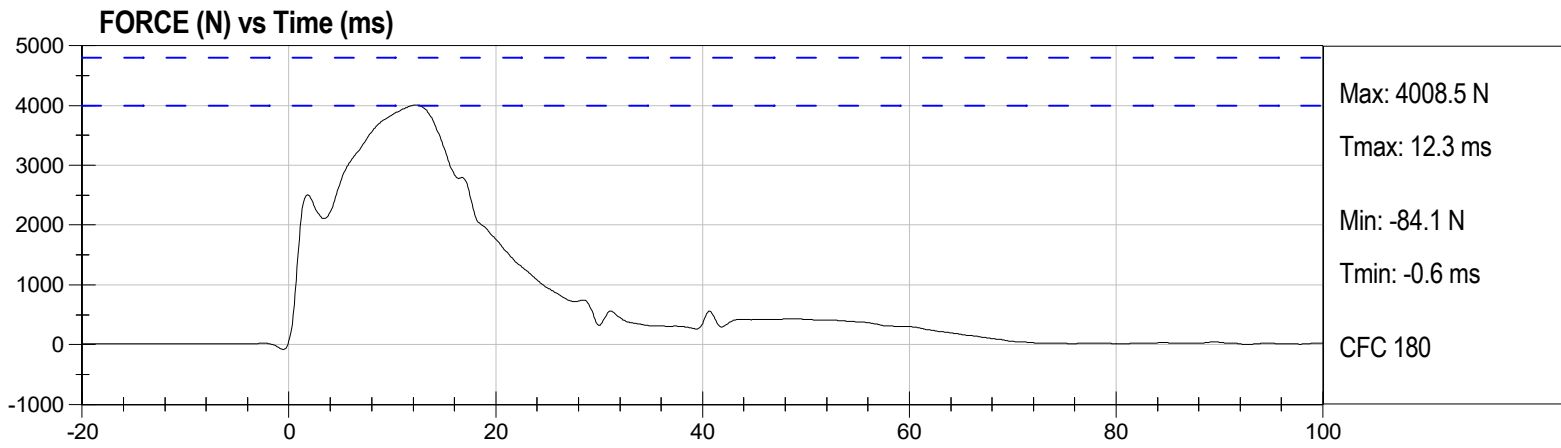


Abdomen Impact Test
ES2re
ATD Serial No: F032

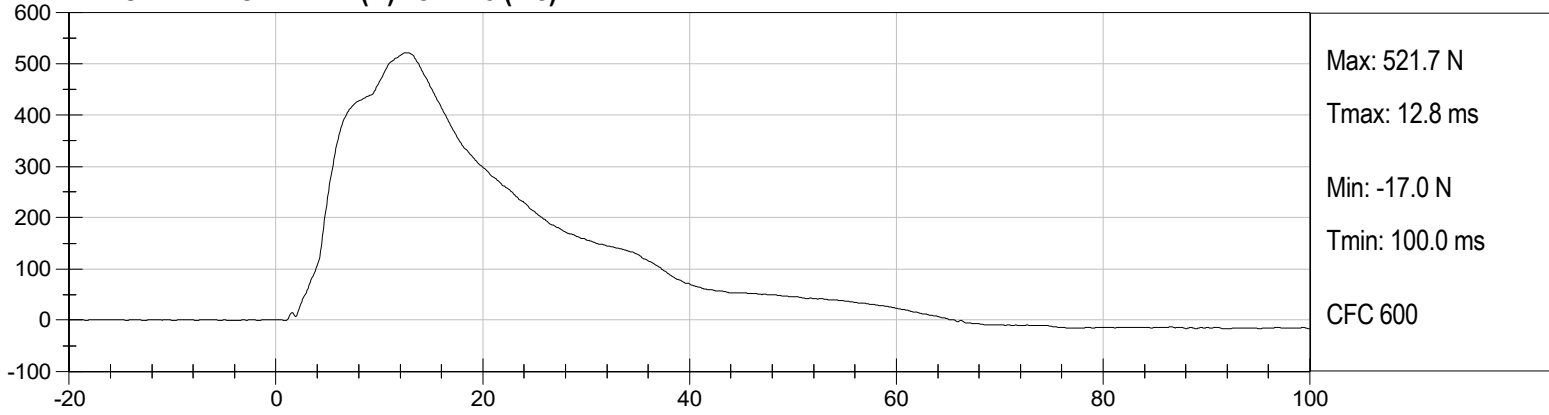
Test Date: 09/04/2025
Test ID: D252547
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	3.9 to 4.1	4.0	Pass
Peak Probe Force	N	4000 to 4800	4009	Pass
Time of Peak Probe Force	ms	10.6 to 13.0	12.3	Pass
Peak Abdomen Force	N	2200 to 2700	2213	Pass
Time of Peak Abdomen Force	ms	10.0 to 12.3	10.9	Pass

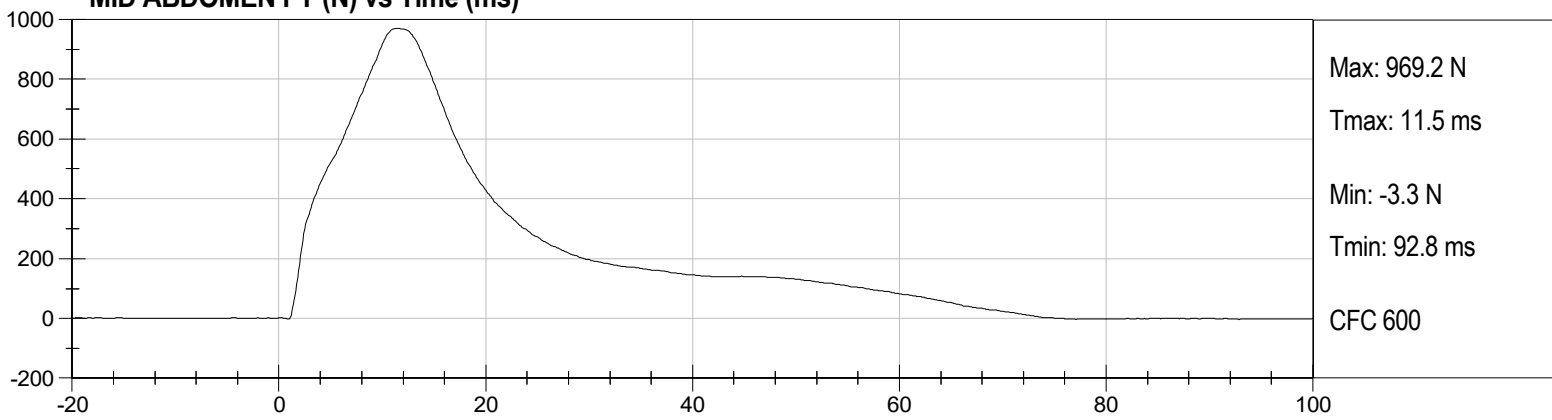
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
FRONT ABDOMEN FY	Denton	ABG1532FY	01/20/2025	1/20/2026
MID ABDOMEN FY	Denton	ABG1534FY	01/20/2025	1/20/2026
REAR ABDOMEN FY	Denton	ABG1535FY	01/20/2025	1/20/2026



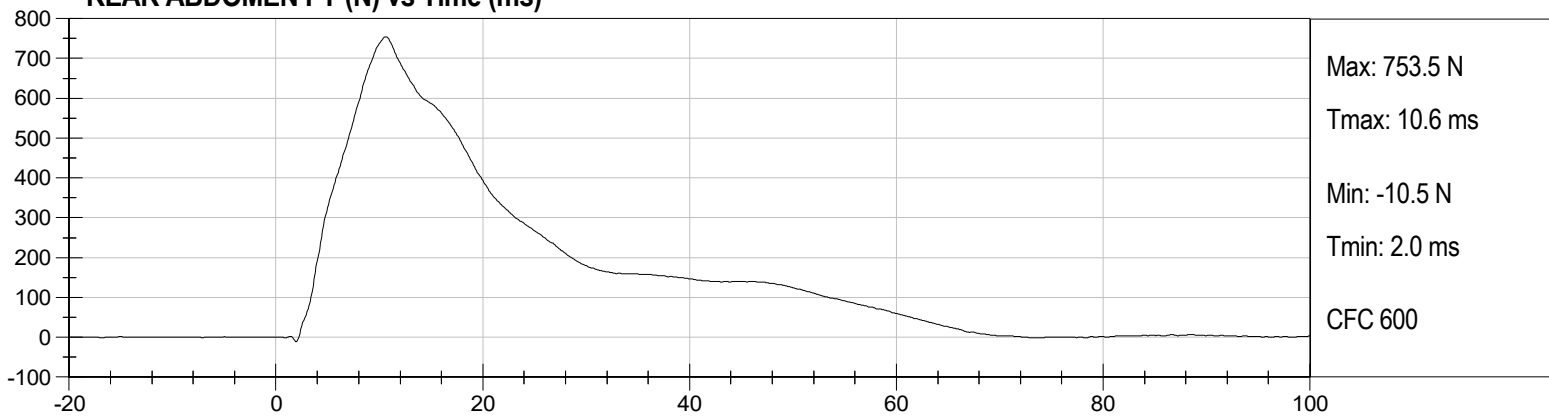
FRONT ABDOMEN FY (N) vs Time (ms)



MID ABDOMEN FY (N) vs Time (ms)

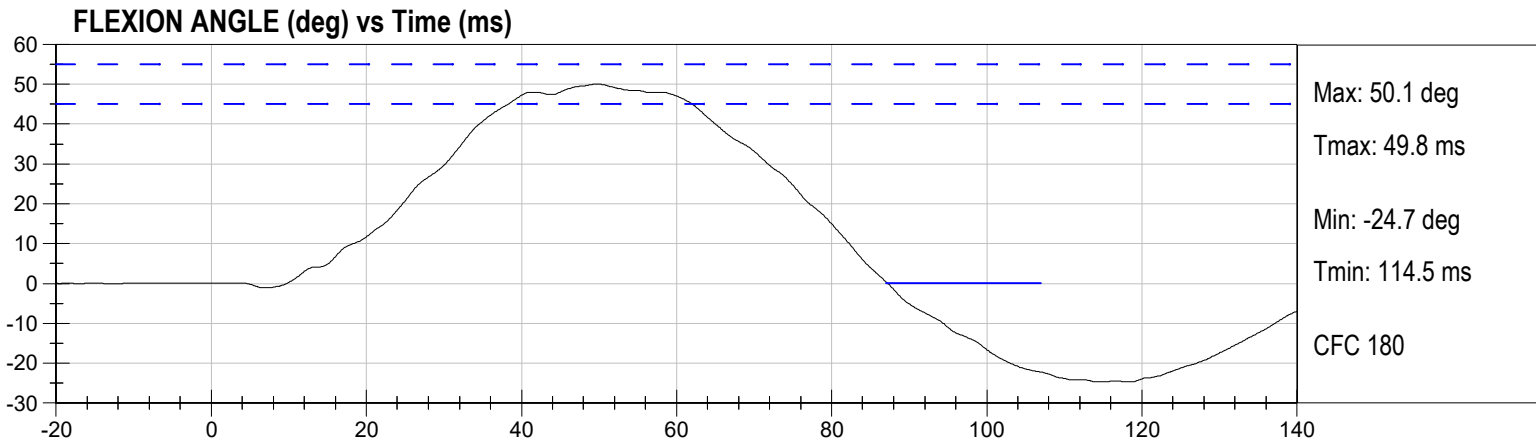
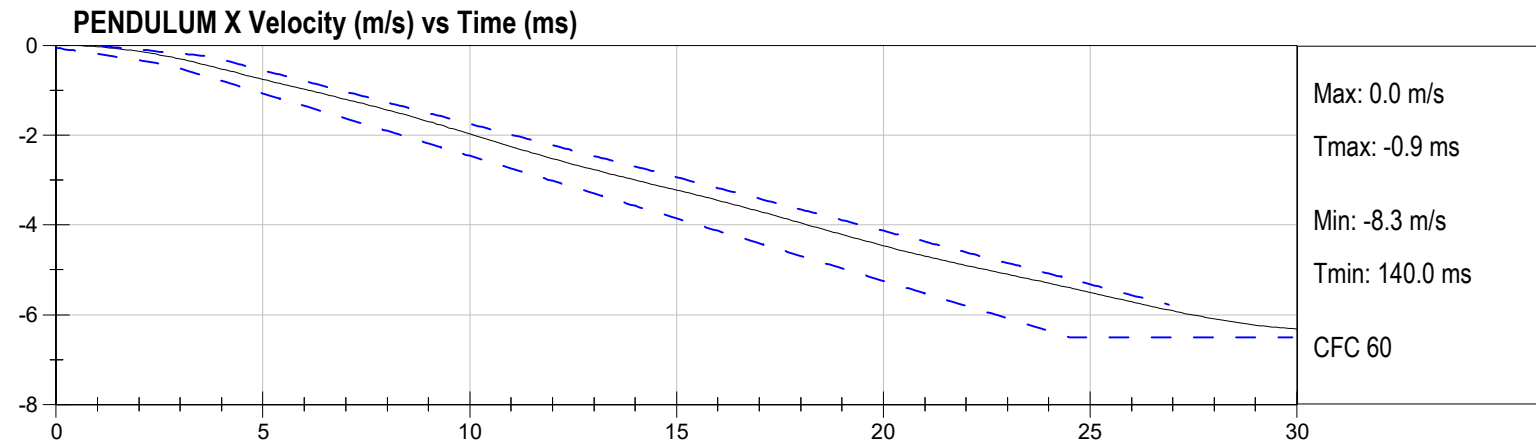


REAR ABDOMEN FY (N) vs Time (ms)

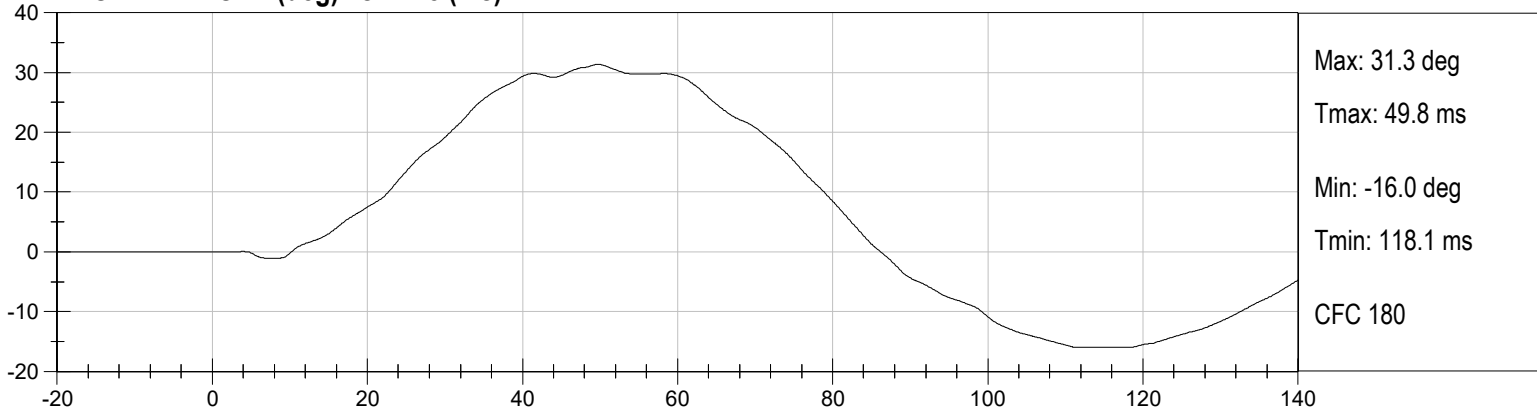


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	5.95 to 6.15	5.98	Pass
Pendulum Velocity Within Corridor	m/s	Within	Yes	Pass
Maximum Flexion Angle	deg	45 to 55	50	Pass
Time of Maximum Flexion Angle	ms	39 to 53	50	Pass
Decay Time to Zero Crossing from Peak	ms	37 to 57	37	Pass

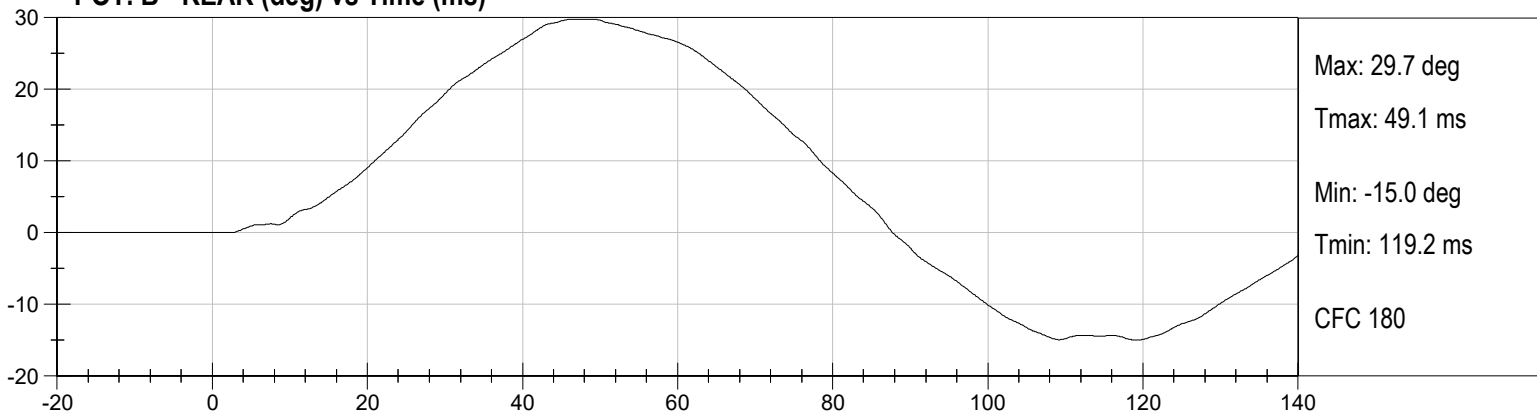
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PEND. ACCEL.	Endevco	AH5P1	07/09/2025	1/8/2026
POT. B - REAR	Spectrol	025_es2	07/15/2025	1/14/2026
POT. A - FRONT	Spectrol	027_es2	07/15/2025	1/14/2026
POT. C - HEADFORM	Spectrol	028_es2	07/15/2025	1/14/2026



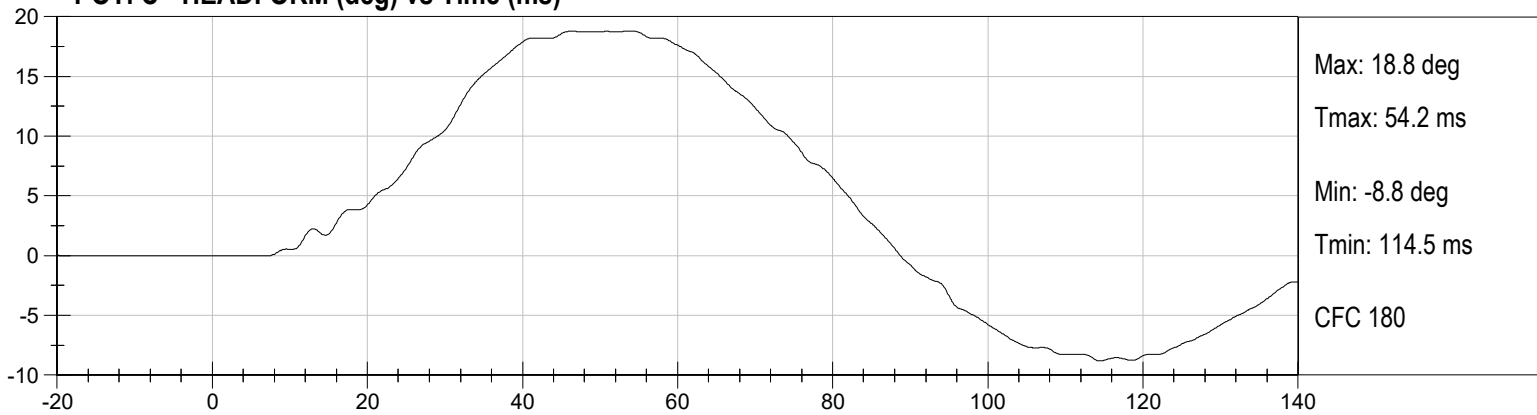
POT. A - FRONT (deg) vs Time (ms)



POT. B - REAR (deg) vs Time (ms)

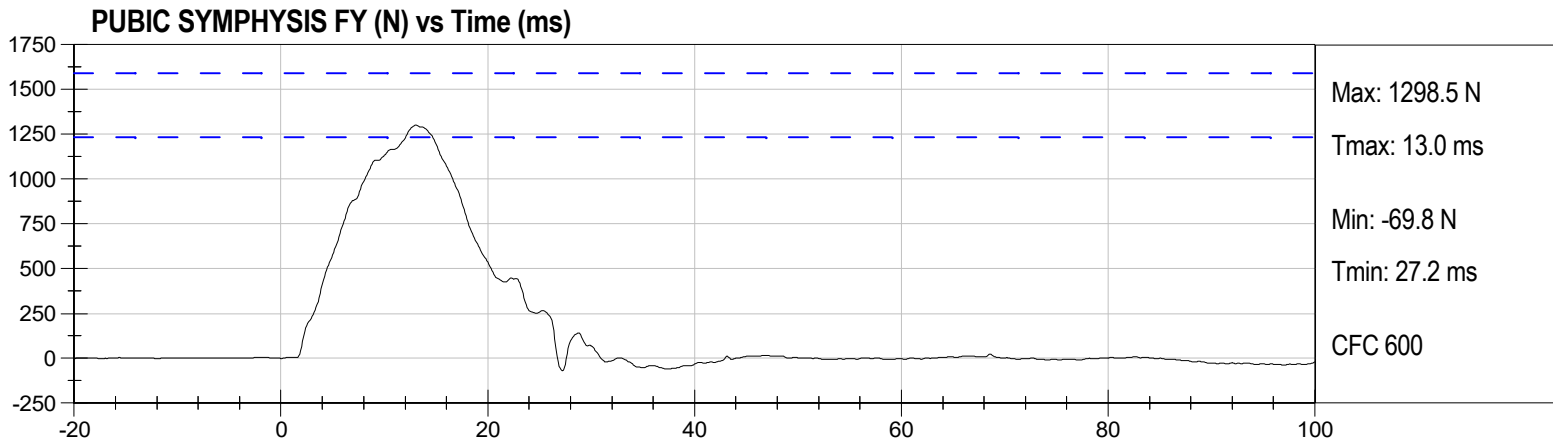
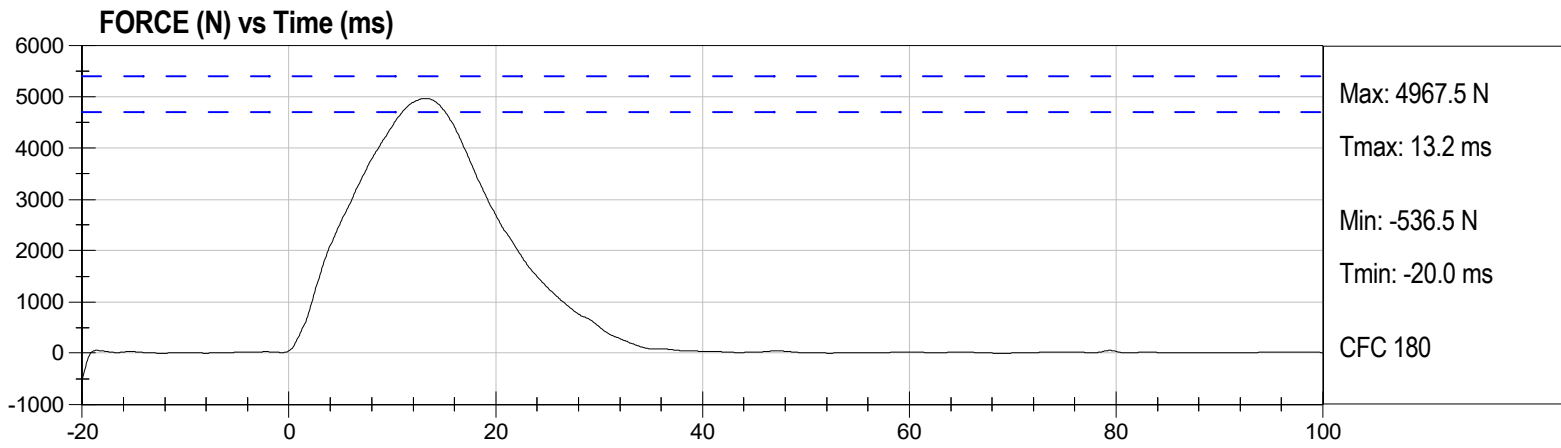


POT. C - HEADFORM (deg) vs Time (ms)



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.34	Pass
Peak Probe Force	N	4700 to 5400	4967	Pass
Time of Peak Probe Force	ms	11.8 to 16.1	13.2	Pass
Peak Pubic Force	N	1230 to 1590	1298	Pass
Time of Peak Pubic Force	ms	12.2 to 17.0	13.0	Pass

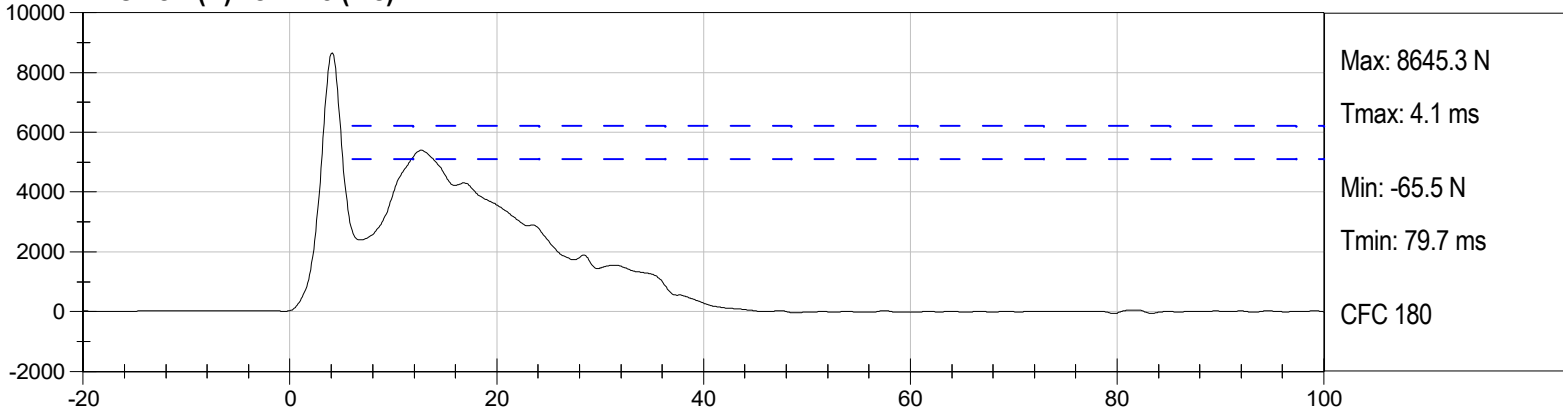
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
PUBIC SYMPHYSIS FY	Denton	PG461FY	01/20/2025	1/20/2026



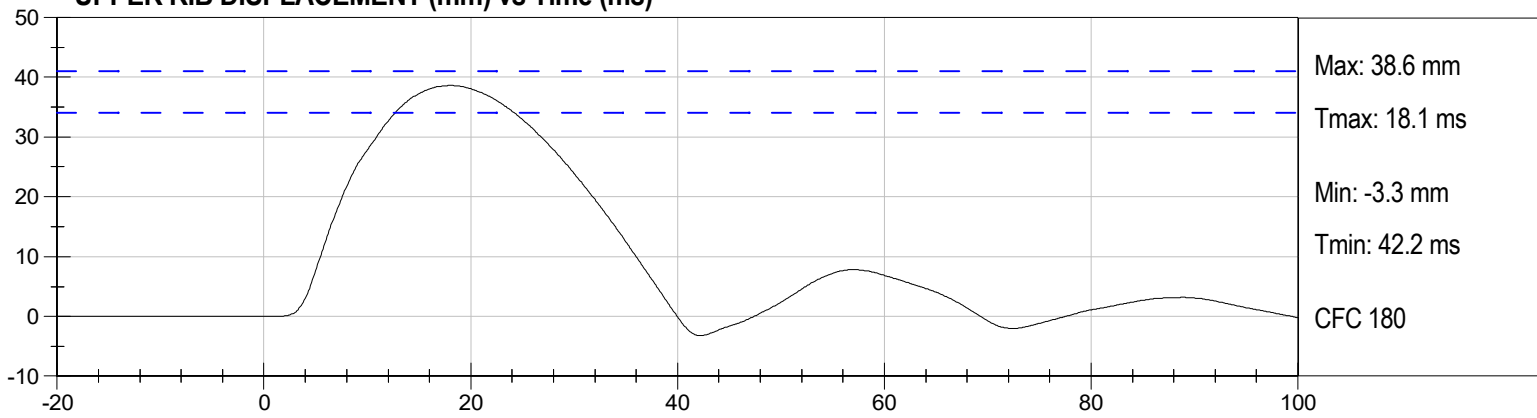
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	5.4 to 5.6	5.46	Pass
Peak Probe Force after 6 ms	N	5100 to 6200	5401	Pass
Maximum Upper Thorax Rib Displacement	mm	34 to 41	38.6	Pass
Maximum Middle Thorax Rib Displacement	mm	37 to 45	40.2	Pass
Maximum Lower Thorax Rib Displacement	mm	37 to 44	39.2	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER RIB DISPLACEMENT	Honeywell	G236	05/15/2025	11/14/2025
MID RIB DISPLACEMENT	Honeywell	G368	05/15/2025	11/14/2025
LOWER RIB DISPLACEMENT	Honeywell	G164	05/15/2025	11/14/2025

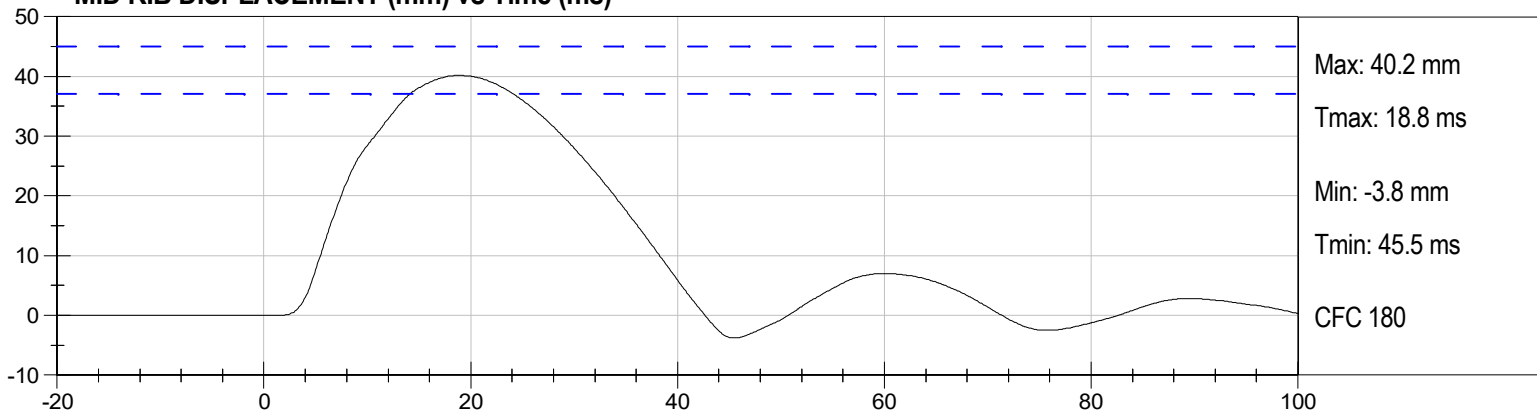
FORCE (N) vs Time (ms)



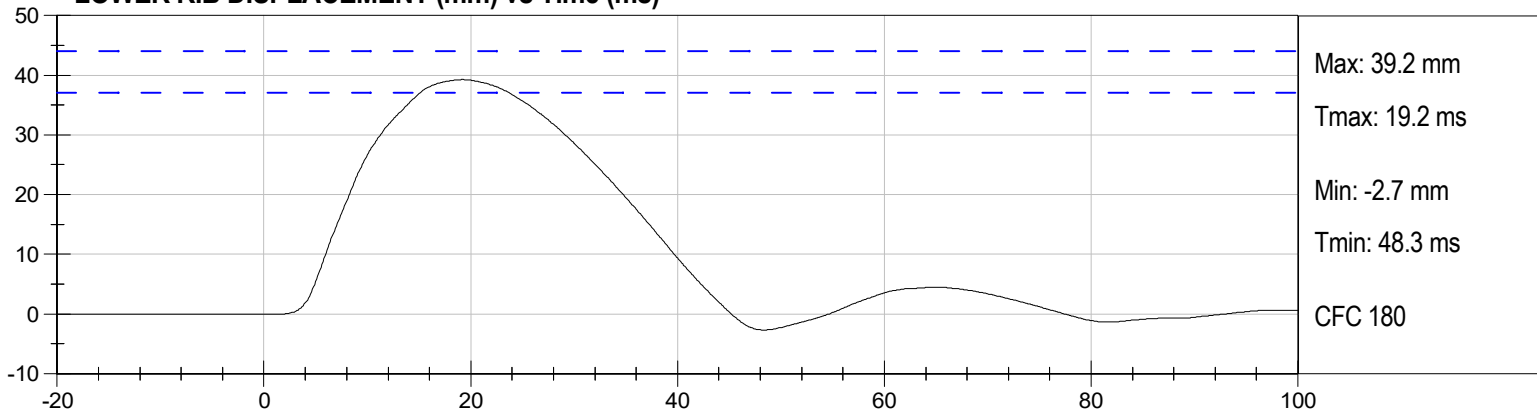
UPPER RIB DISPLACEMENT (mm) vs Time (ms)



MID RIB DISPLACEMENT (mm) vs Time (ms)



LOWER RIB DISPLACEMENT (mm) vs Time (ms)



QUALIFICATION TEST RESULTS

POST-TEST

EUROSID 2 (ES-2RE) MALE – DRIVER ATD

ES-2re External Measurements
SN: F032

No.	Name	Spec. (mm)	Result	Pass/Fail
1	Sitting Height	900 - 918	915	Pass
2	Seat to Shoulder Joint	558 - 572	568	Pass
3	Seat to Lower Face of Thoracic Spine Box	346 - 356	355	Pass
4	Seat to Hip Joint (center of bolt)	97 - 103	98	Pass
5	Sole to Seat, Sitting	333 - 451	440	Pass
6	Head Width	152 - 158	157	Pass
7	Shoulder/Arm Width	461 - 479	464	Pass
8	Thorax Width	322 - 332	323	Pass
9	Abdomen Width	273 - 287	281	Pass
10	Pelvis Lap Width	359 - 373	370	Pass
11	Head Depth	196 - 206	203	Pass
12	Thorax Depth	262 - 272	264	Pass
13	Abdomen Depth	194 - 204	196	Pass
14	Pelvis Depth	235 - 245	236	Pass
15	Back of Buttocks to Hip Joint (center of bolt)	150 - 160	151	Pass
16	Back of Buttocks to Front Knee	597 - 615	607	Pass

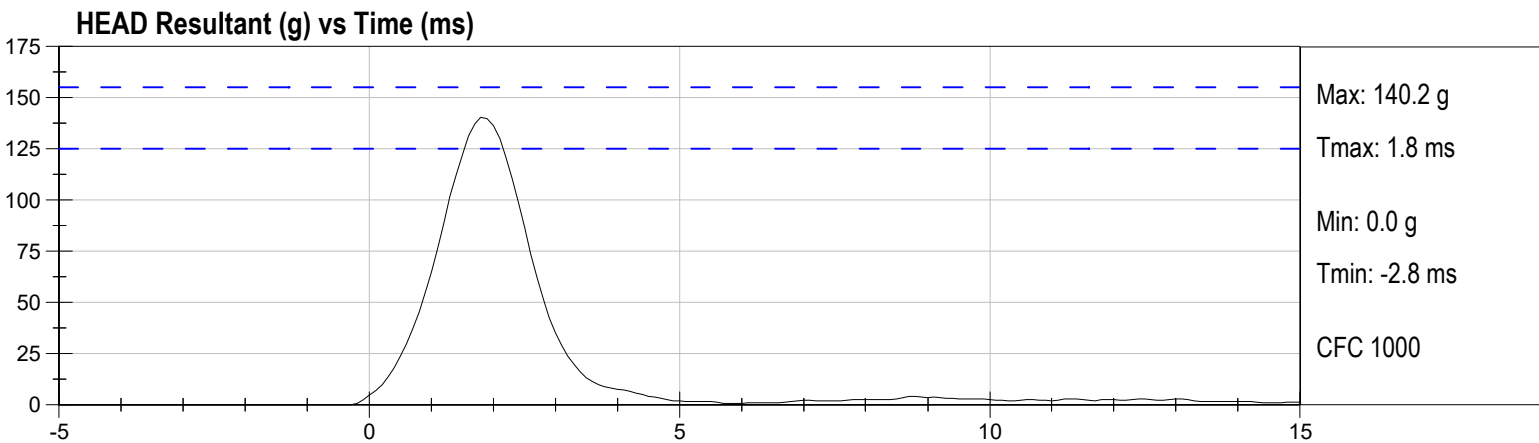
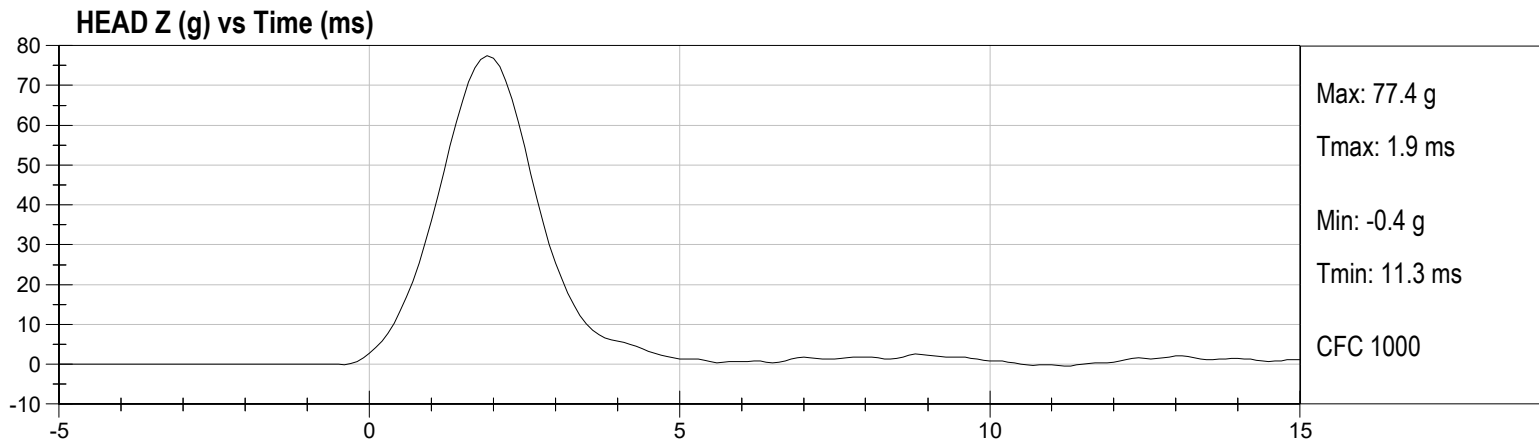
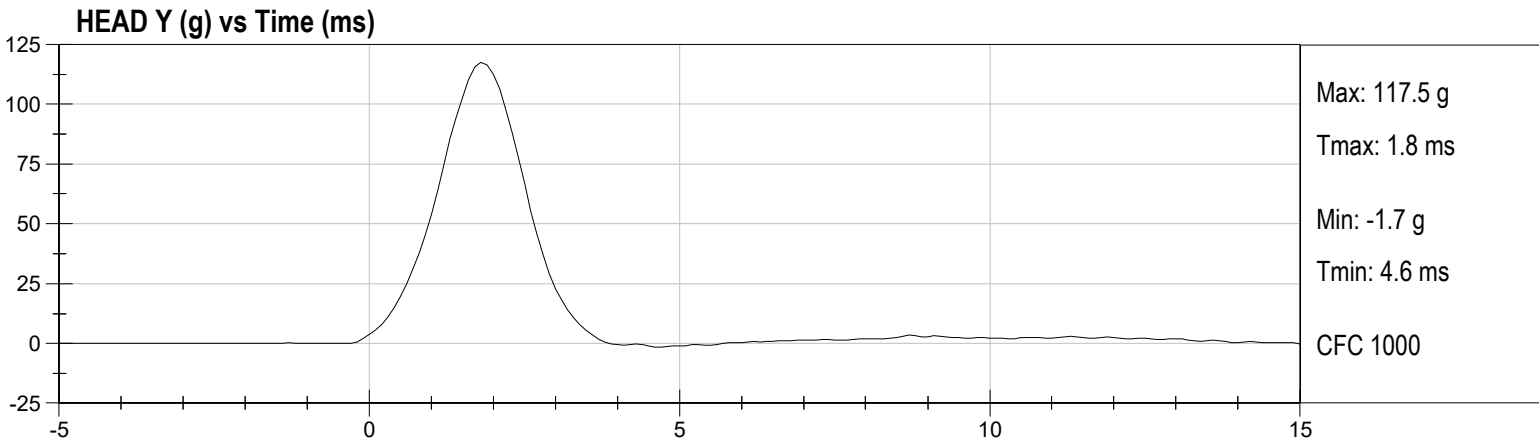
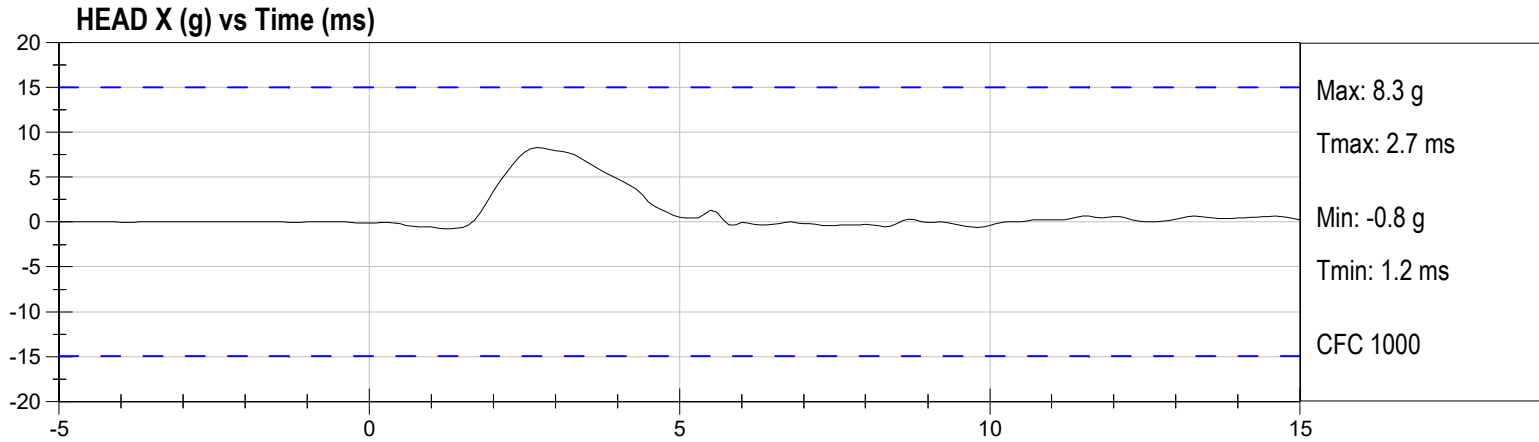


Lateral Head Drop Test
ES2re
ATD Serial No: F032

Test Date: 10/20/2025
Test ID: D253031
Test Technician: Brian Lucas

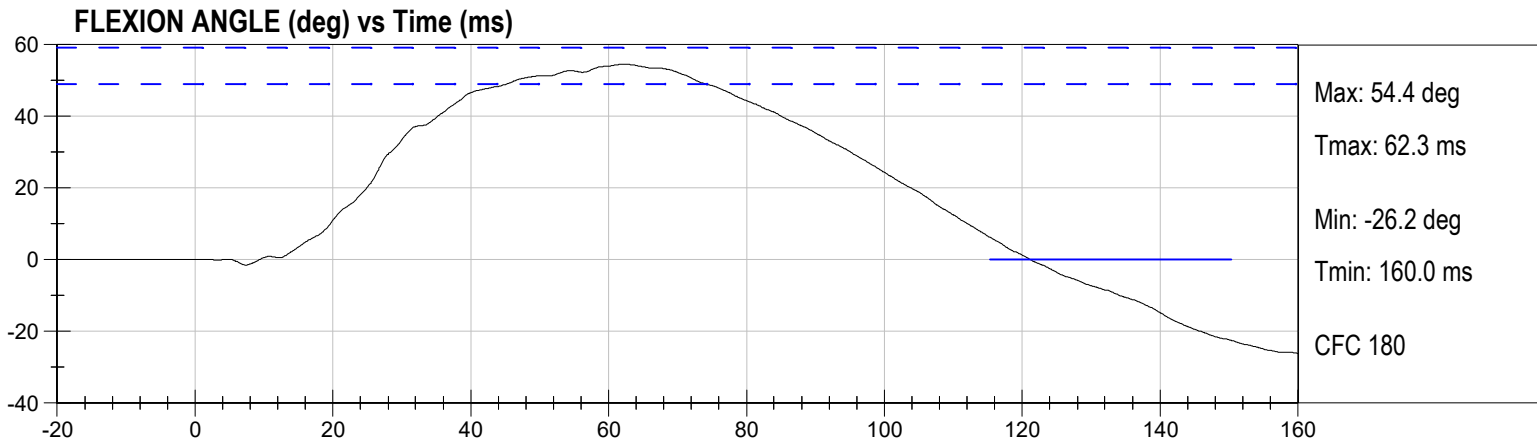
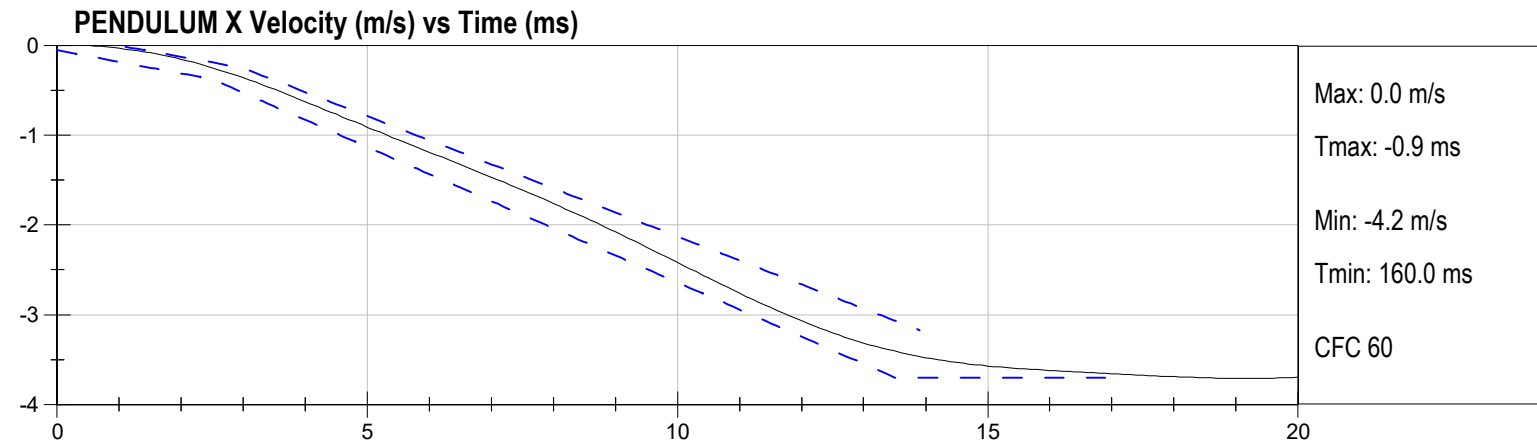
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Peak Resultant Acceleration	g	125 to 155	140	Pass
Peak Longitudinal Acceleration	g	-15 to 15	8.3	Pass
Unimodal	%	within 15% of peak	3	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
HEAD X	Endevco	P78728	08/14/2025	2/13/2026
HEAD Y	Endevco	P78732	08/14/2025	2/13/2026
HEAD Z	Endevco	P78739	08/14/2025	2/13/2026

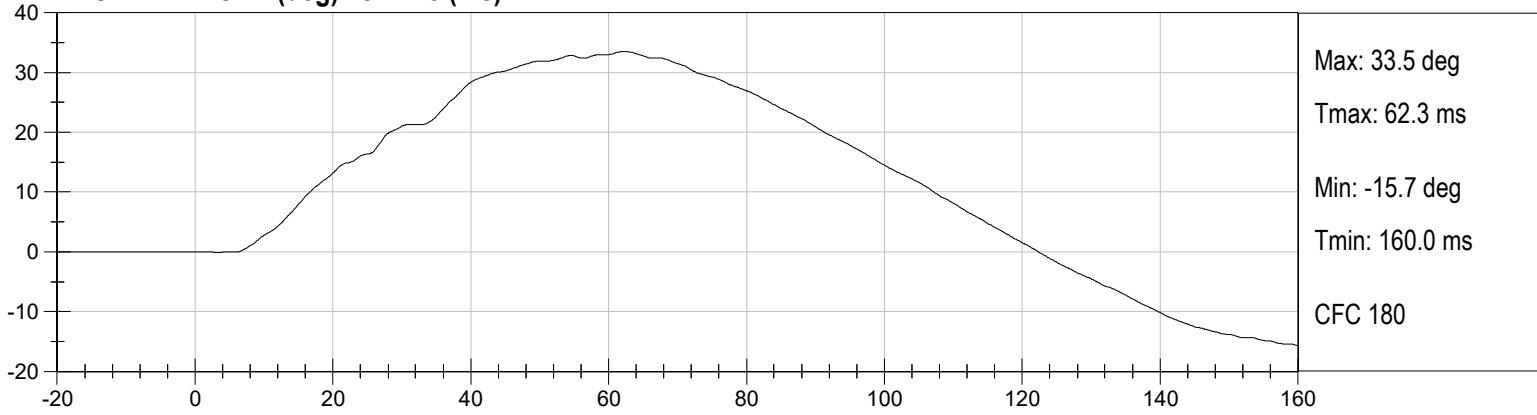


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	3.30 to 3.50	3.36	Pass
Pendulum Velocity Within Corridor	m/s	Within	Yes	Pass
Maximum Flexion Angle	deg	49 to 59	54.4	Pass
Time of Maximum Flexion Angle	ms	54 to 66	62.3	Pass
Decay Time to Zero Crossing	ms	53 to 88	59.1	Pass

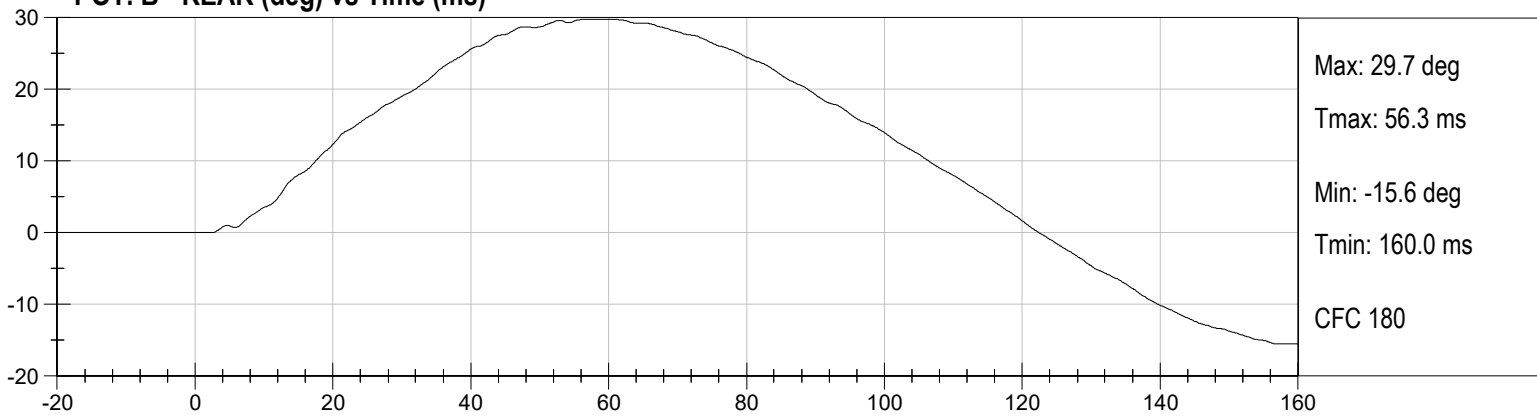
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PEND. ACCEL.	Endevco	AH5P1	07/09/2025	1/8/2026
POT. B - REAR	Spectrol	025_es2	07/15/2025	1/14/2026
POT. A - FRONT	Spectrol	027_es2	07/15/2025	1/14/2026
POT. C - HEADFORM	Spectrol	028_es2	07/15/2025	1/14/2026



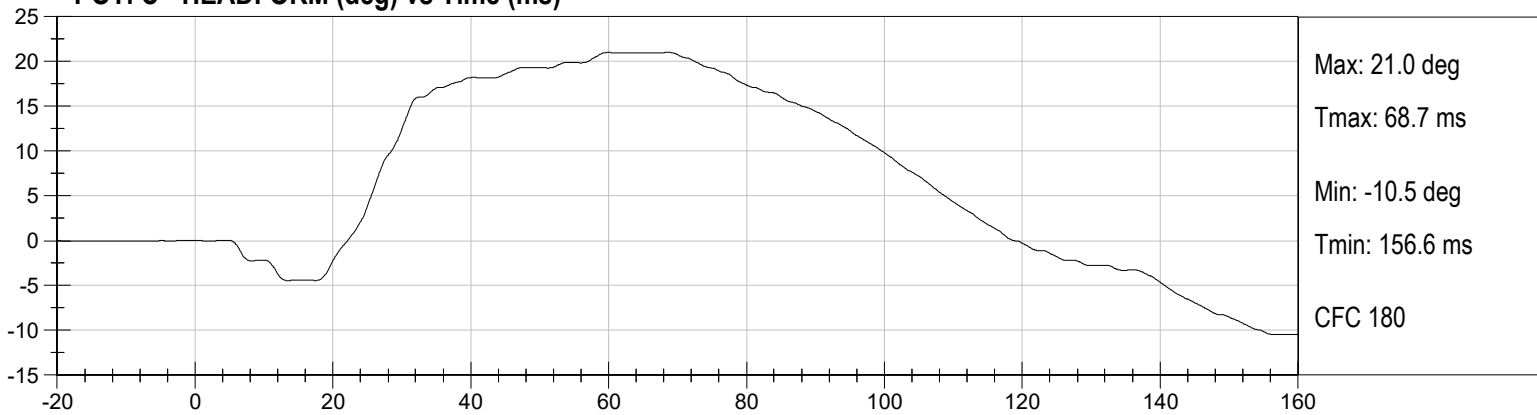
POT. A - FRONT (deg) vs Time (ms)



POT. B - REAR (deg) vs Time (ms)



POT. C - HEADFORM (deg) vs Time (ms)



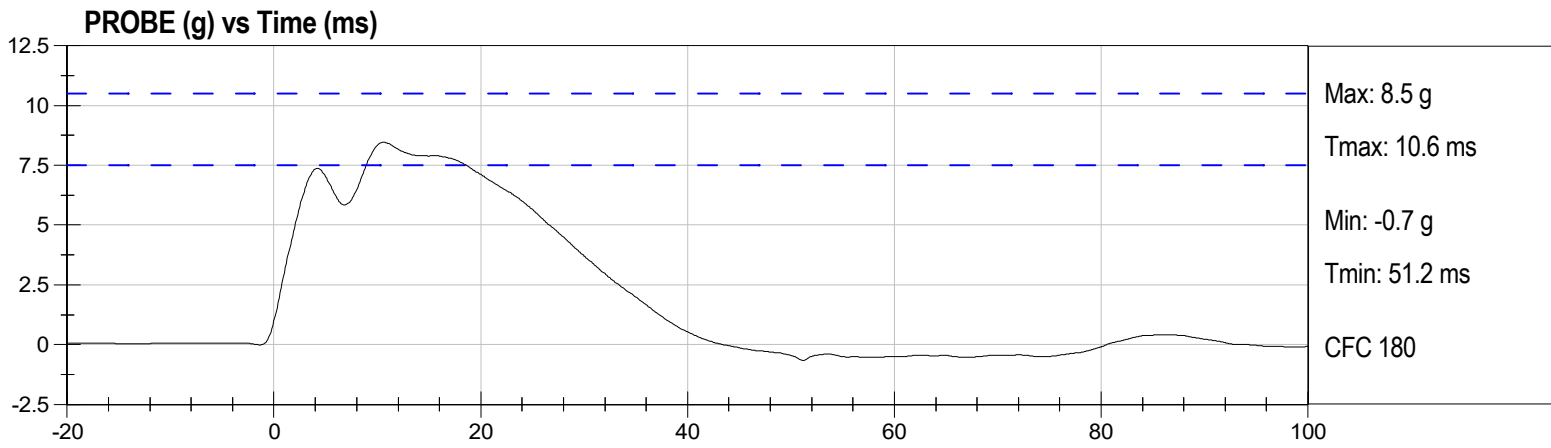


Shoulder Impact Test
ES2re
ATD Serial No: F032

Test Date: 10/21/2025
Test ID: D253033
Test Technician: Brian Lucas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.3	Pass
Peak Probe Acceleration	G's	7.5 to 10.5	8.5	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026



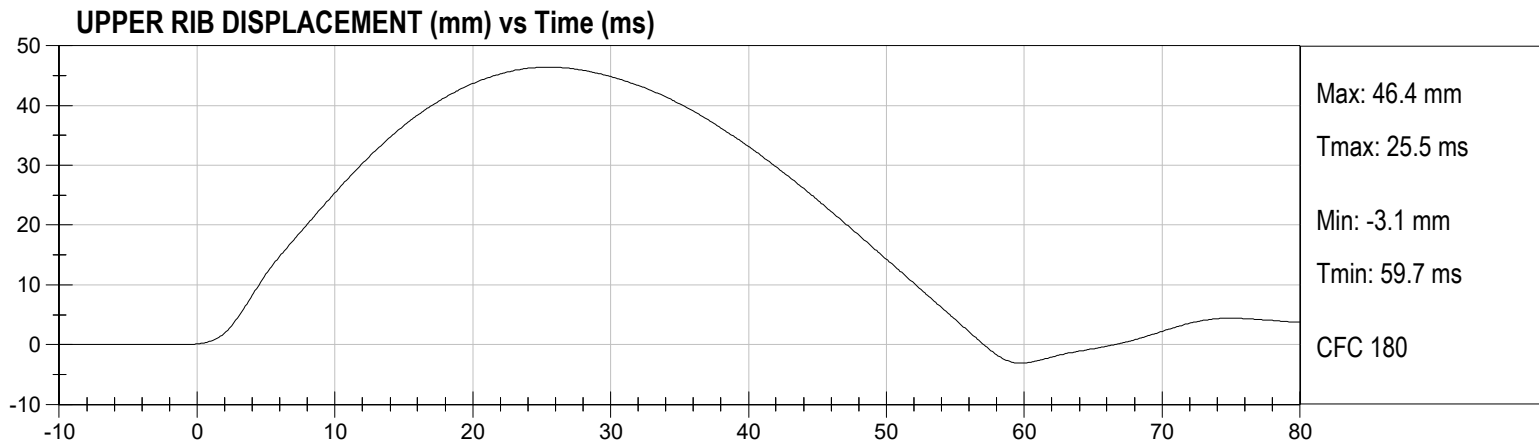


Upper Rib Drop Test - 815mm
ES2re
ATD Serial No: F032

Test Date: 10/20/2025
Test ID: D253034H
Test Technician: Brian Lucas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Rib Deflection at 815 mm	mm	46 to 51	46.4	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
UPPER RIB DISPLACEMENT	Honeywell	G236	05/15/2025	11/14/2025



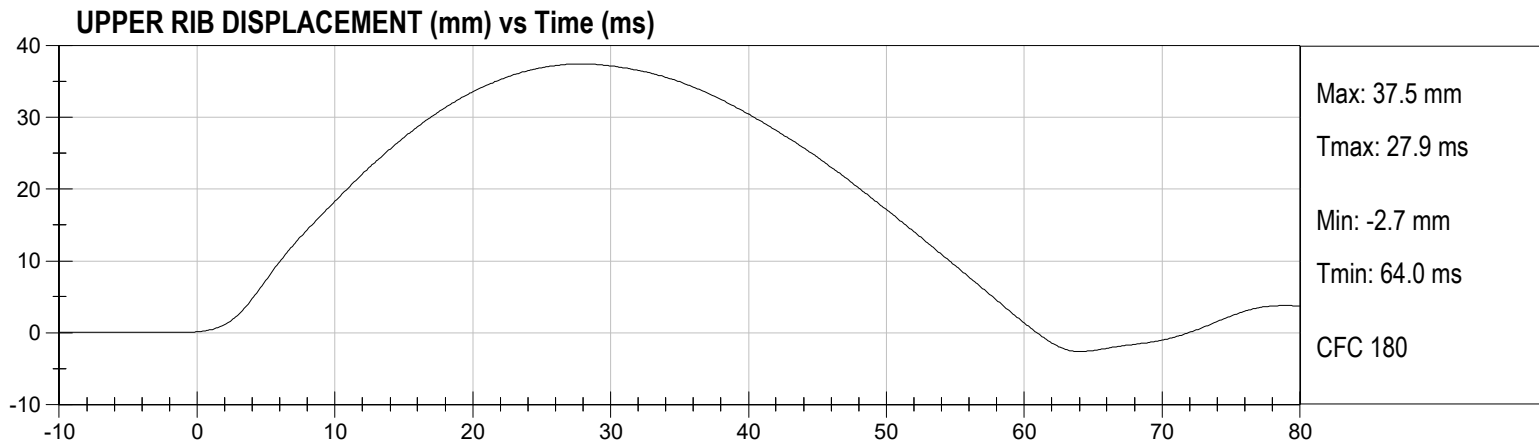


Upper Rib Drop Test - 459mm
ES2re
ATD Serial No: F032

Test Date: 10/21/2025
Test ID: D253034L
Test Technician: Brian Lucas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	37	Pass
Rib Deflection at 459 mm	mm	36 to 40	37.5	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
UPPER RIB DISPLACEMENT	Honeywell	G236	05/15/2025	11/14/2025



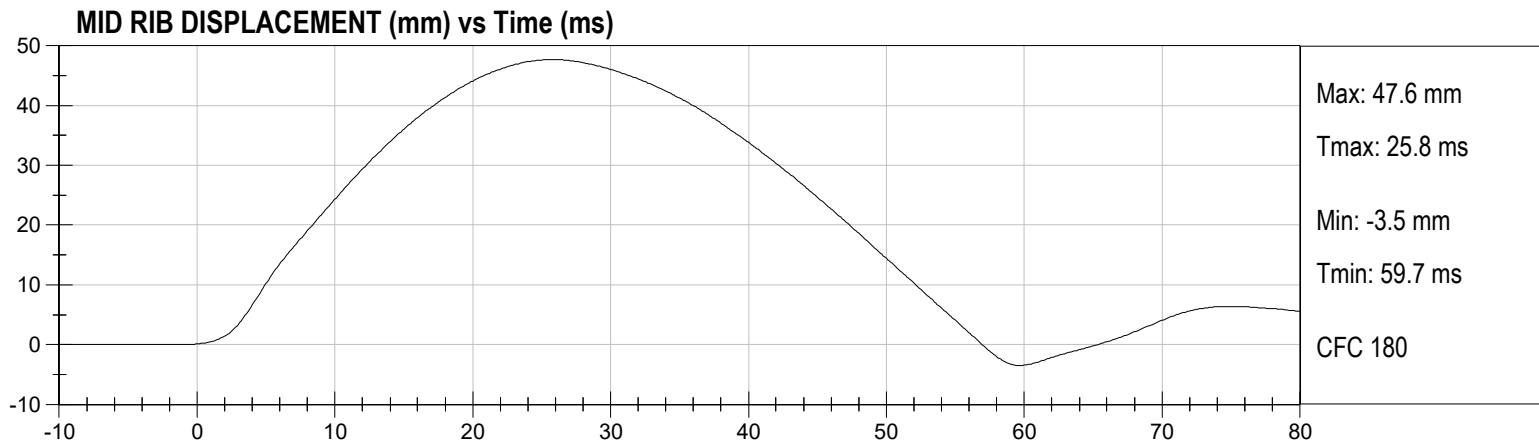


Middle Rib Drop Test - 815mm
ES2re
ATD Serial No: F032

Test Date: 10/20/2025
Test ID: D253035H
Test Technician: Brian Lucas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Rib Deflection at 815 mm	mm	46 to 51	47.6	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
MID RIB DISPLACEMENT	Honeywell	G368	05/15/2025	11/14/2025



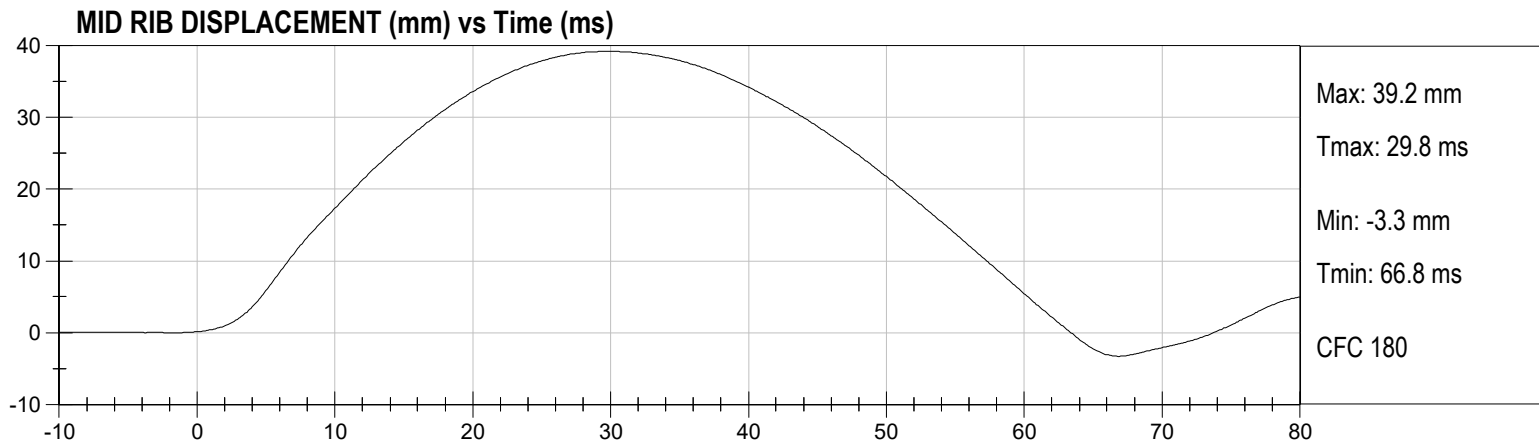


Middle Rib Drop Test - 459mm
ES2re
ATD Serial No: F032

Test Date: 10/21/2025
Test ID: D253035L
Test Technician: Brian Lucas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	37	Pass
Rib Deflection at 459 mm	mm	36 to 40	39.2	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
MID RIB DISPLACEMENT	Honeywell	G368	05/15/2025	11/14/2025



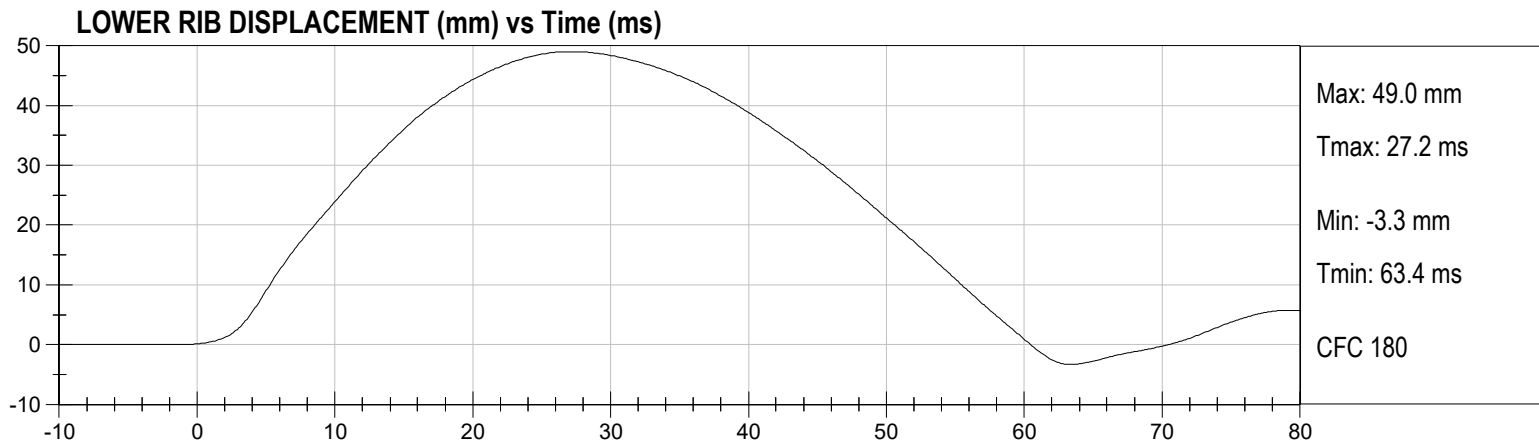


Lower Rib Drop Test - 815mm
ES2re
ATD Serial No: F032

Test Date: 10/20/2025
Test ID: D253036H
Test Technician: Brian Lucas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Rib Deflection at 815 mm	mm	46 to 51	49.0	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
LOWER RIB DISPLACEMENT	Honeywell	G164	05/15/2025	11/14/2025



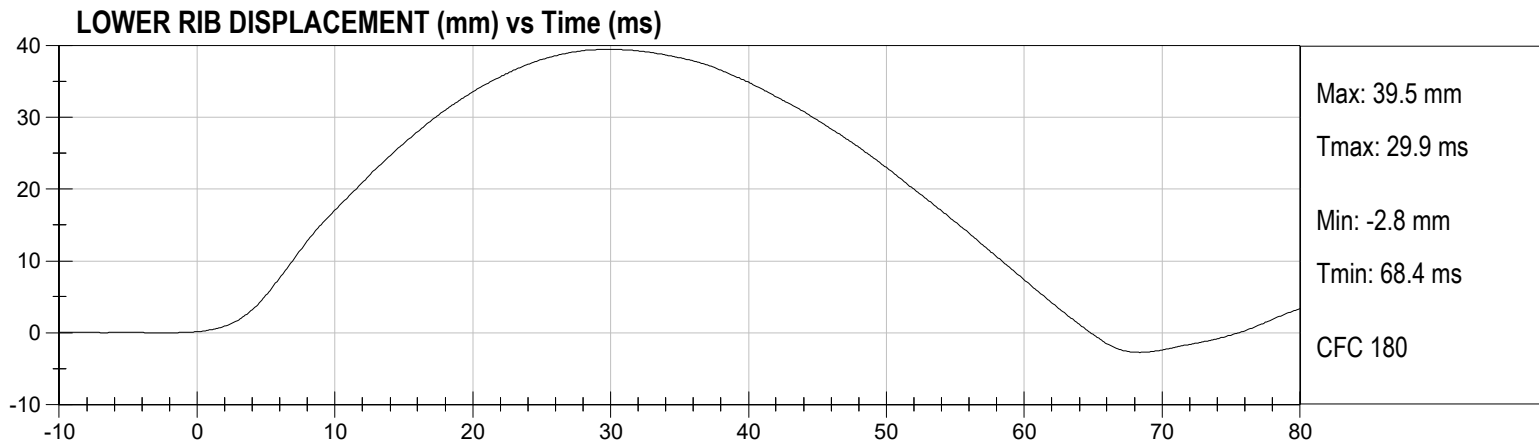


Lower Rib Drop Test - 459mm
ES2re
ATD Serial No: F032

Test Date: 10/21/2025
Test ID: D253036L
Test Technician: Brian Lucas

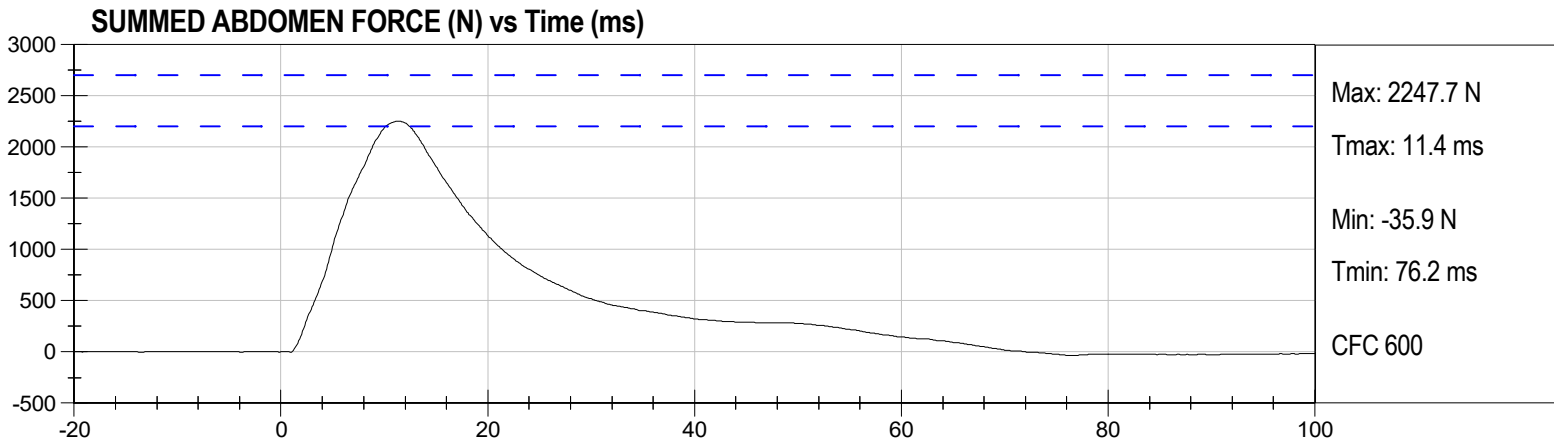
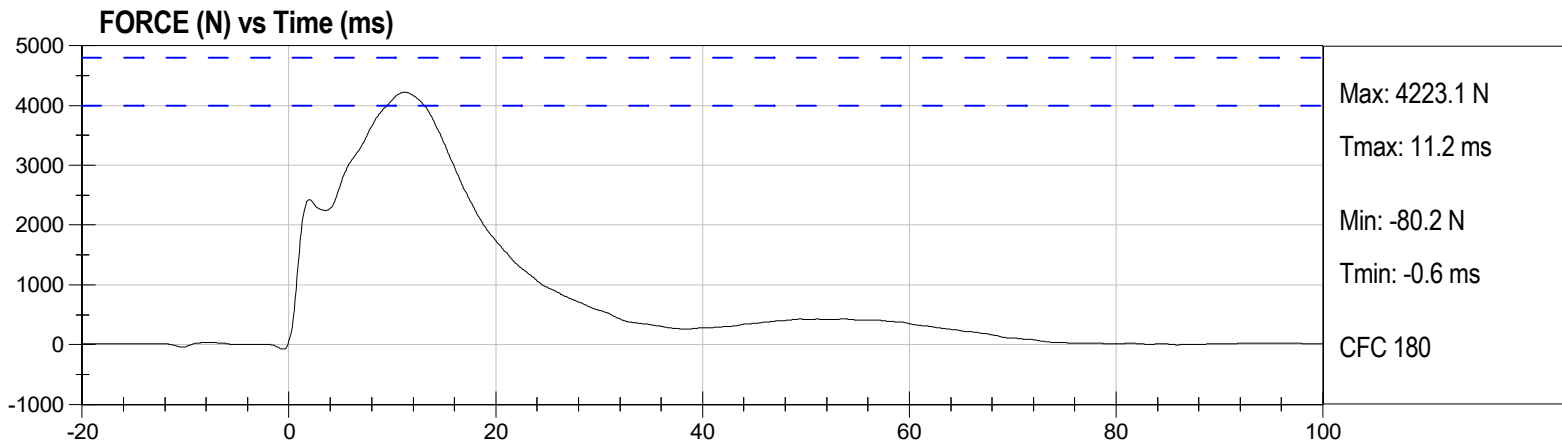
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	37	Pass
Rib Deflection at 459 mm	mm	36 to 40	39.5	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
LOWER RIB DISPLACEMENT	Honeywell	G164	05/15/2025	11/14/2025

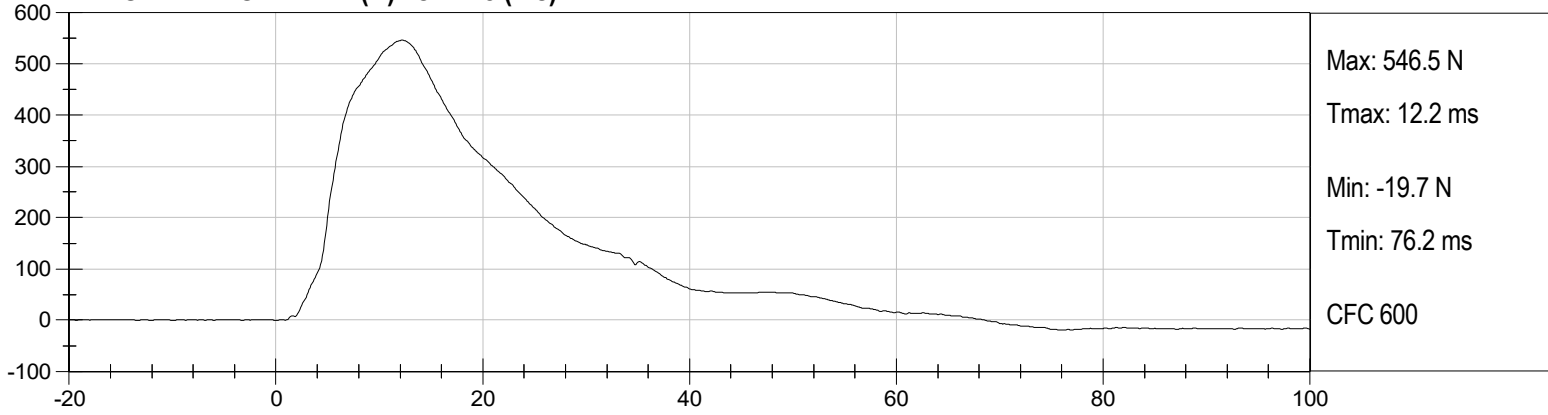


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.6	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	3.9 to 4.1	4.0	Pass
Peak Probe Force	N	4000 to 4800	4223	Pass
Time of Peak Probe Force	ms	10.6 to 13.0	11.2	Pass
Peak Abdomen Force	N	2200 to 2700	2248	Pass
Time of Peak Abdomen Force	ms	10.0 to 12.3	11.4	Pass

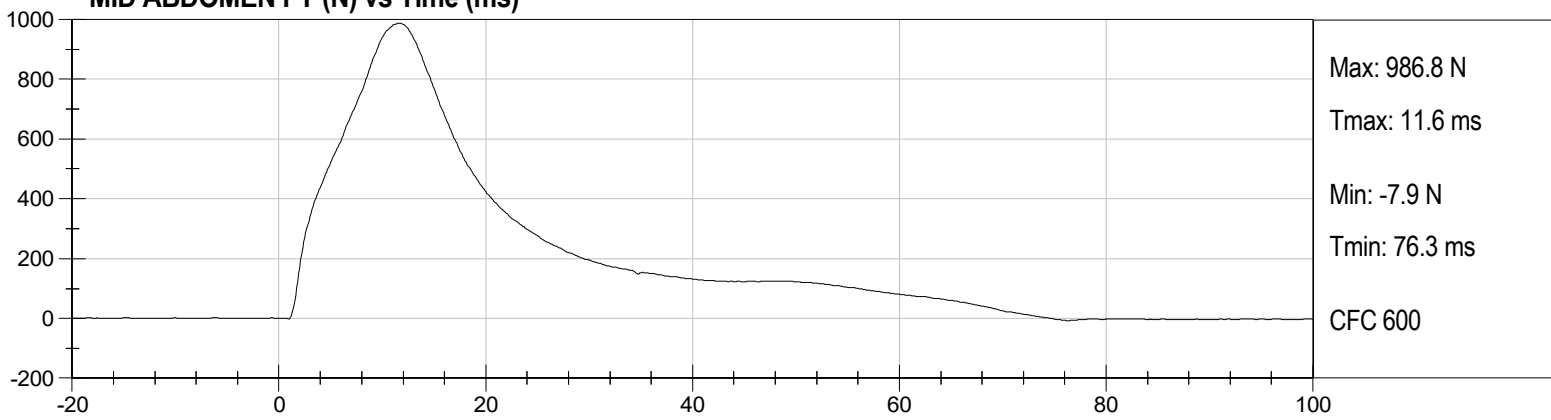
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
FRONT ABDOMEN FY	Denton	ABG1532FY	01/20/2025	1/20/2026
MID ABDOMEN FY	Denton	ABG1534FY	01/20/2025	1/20/2026
REAR ABDOMEN FY	Denton	ABG1535FY	01/20/2025	1/20/2026



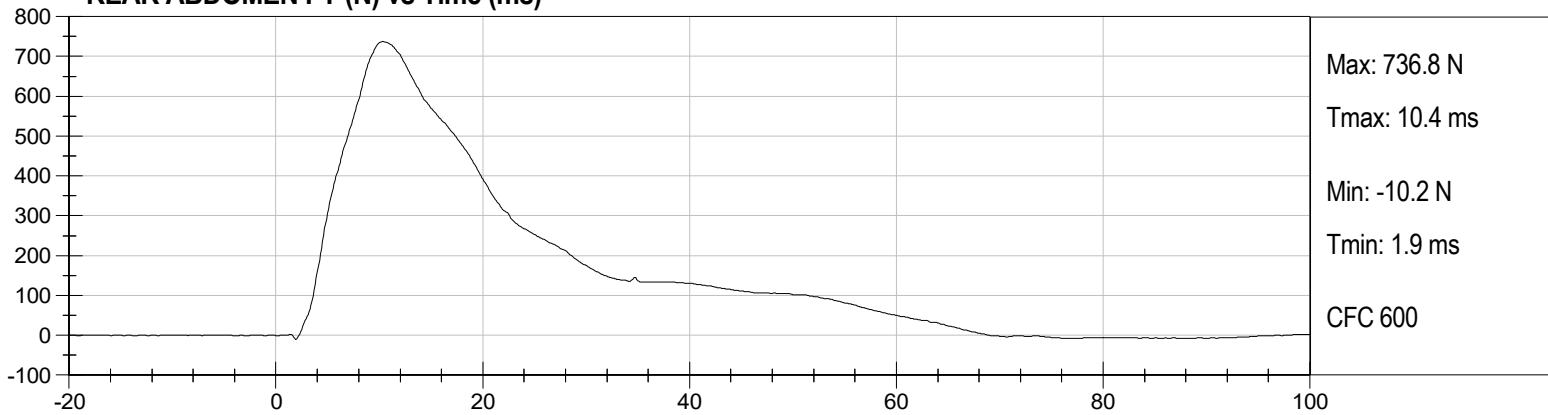
FRONT ABDOMEN FY (N) vs Time (ms)



MID ABDOMEN FY (N) vs Time (ms)

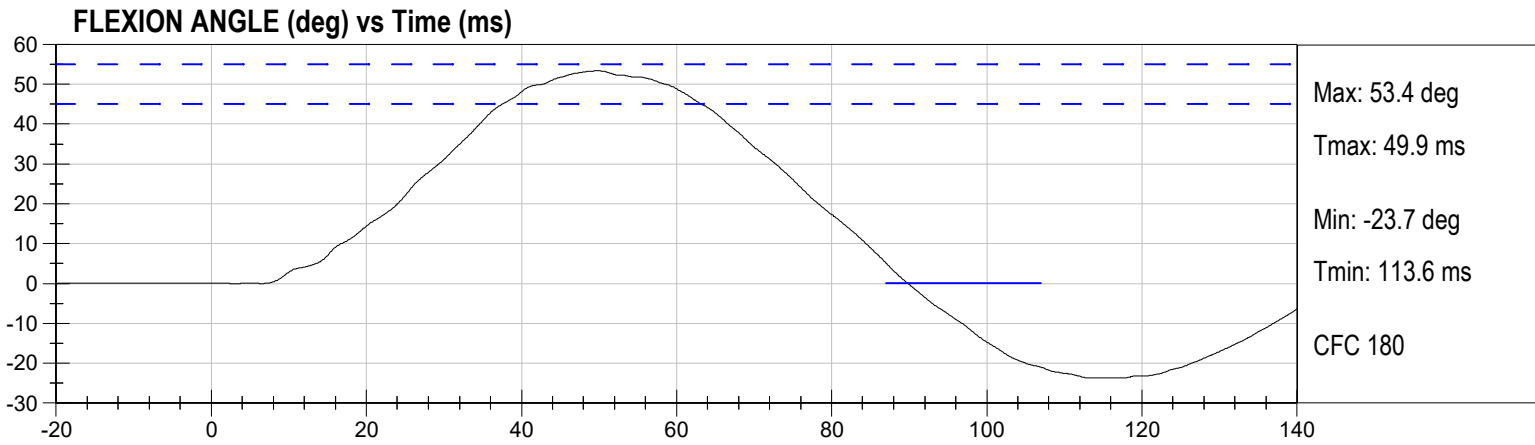
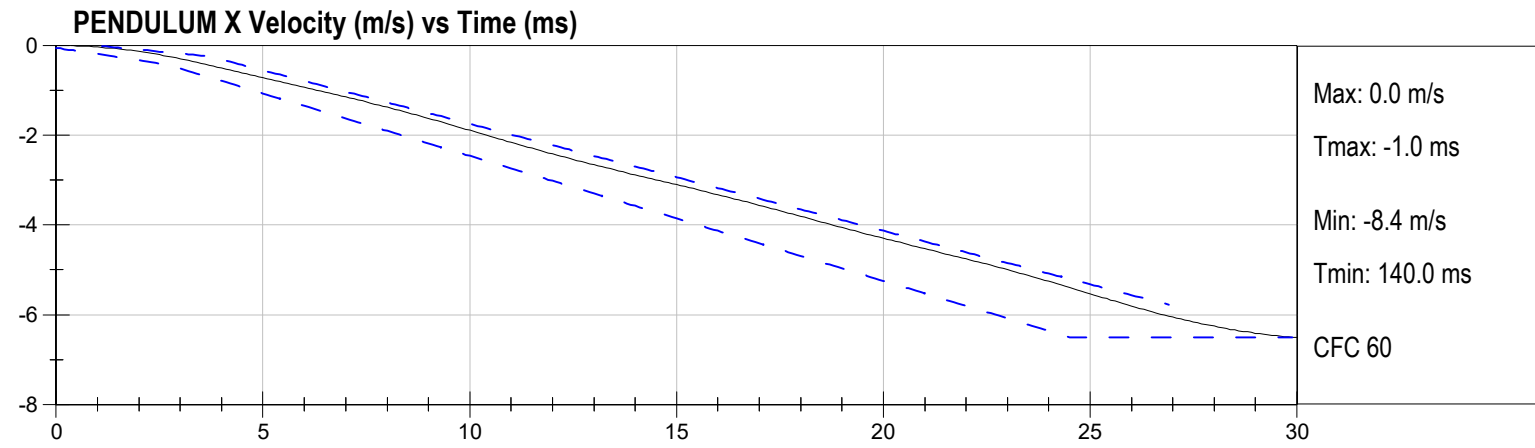


REAR ABDOMEN FY (N) vs Time (ms)

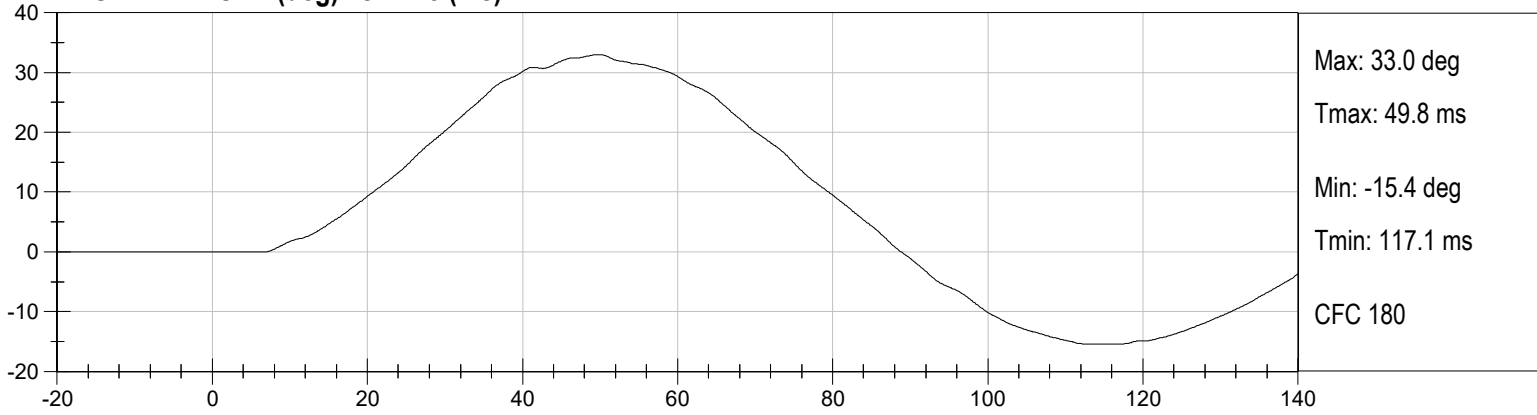


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	5.95 to 6.15	6.05	Pass
Pendulum Velocity Within Corridor	m/s	Within	Yes	Pass
Maximum Flexion Angle	deg	45 to 55	53	Pass
Time of Maximum Flexion Angle	ms	39 to 53	50	Pass
Decay Time to Zero Crossing from Peak	ms	37 to 57	40	Pass

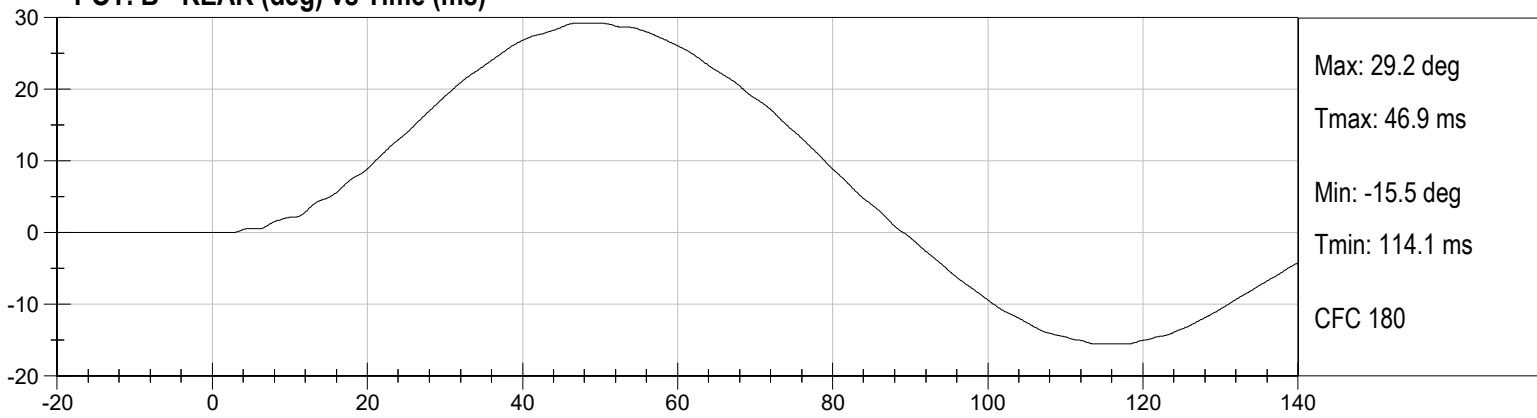
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PEND. ACCEL.	Endevco	AH5P1	07/09/2025	1/8/2026
POT. B - REAR	Spectrol	025_es2	07/15/2025	1/14/2026
POT. A - FRONT	Spectrol	027_es2	07/15/2025	1/14/2026
POT. C - HEADFORM	Spectrol	028_es2	07/15/2025	1/14/2026



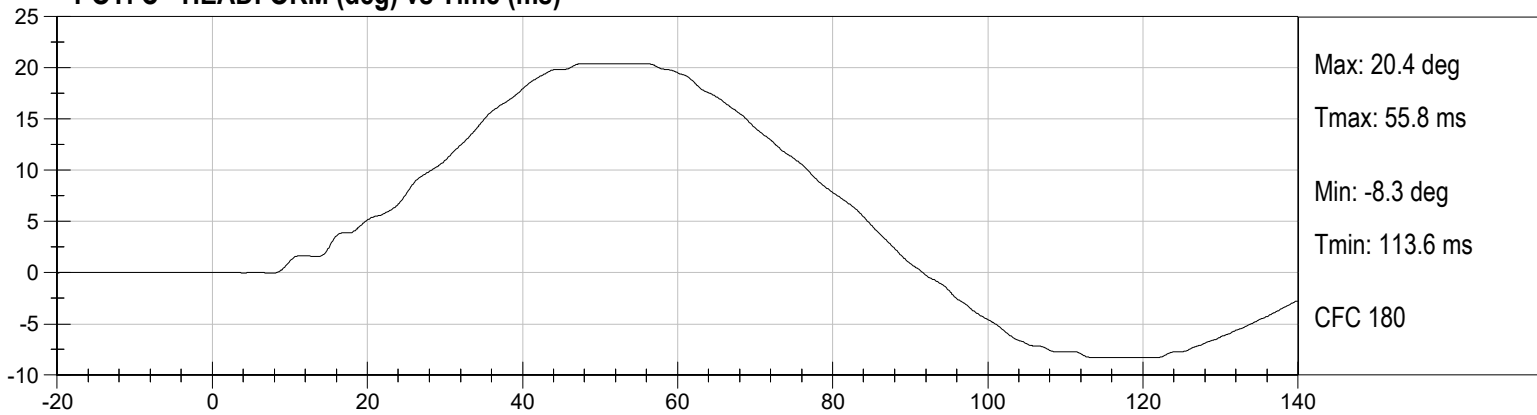
POT. A - FRONT (deg) vs Time (ms)



POT. B - REAR (deg) vs Time (ms)

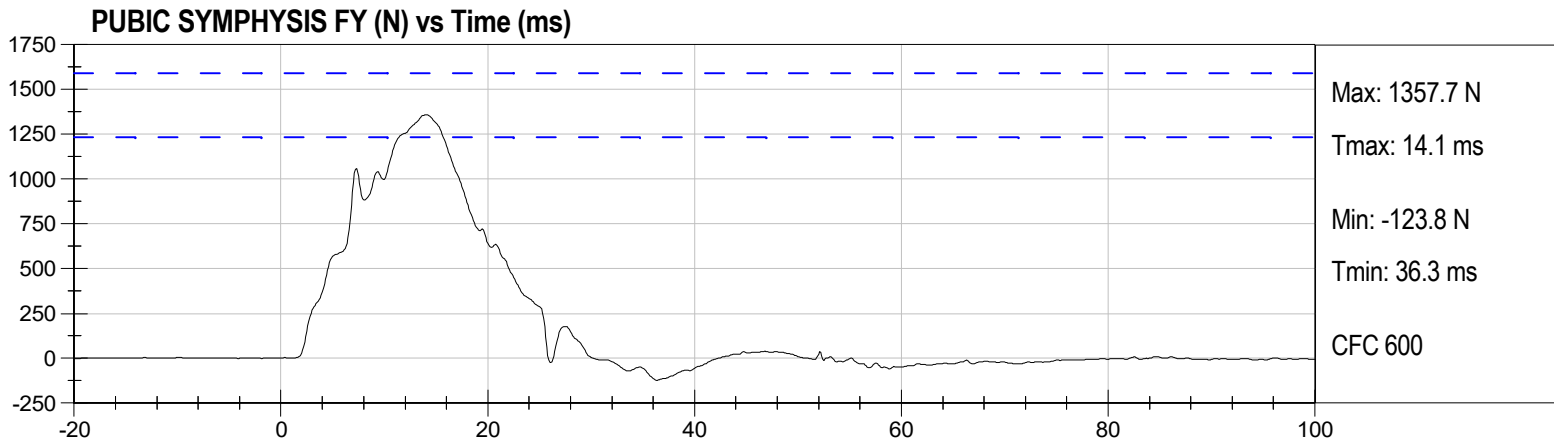
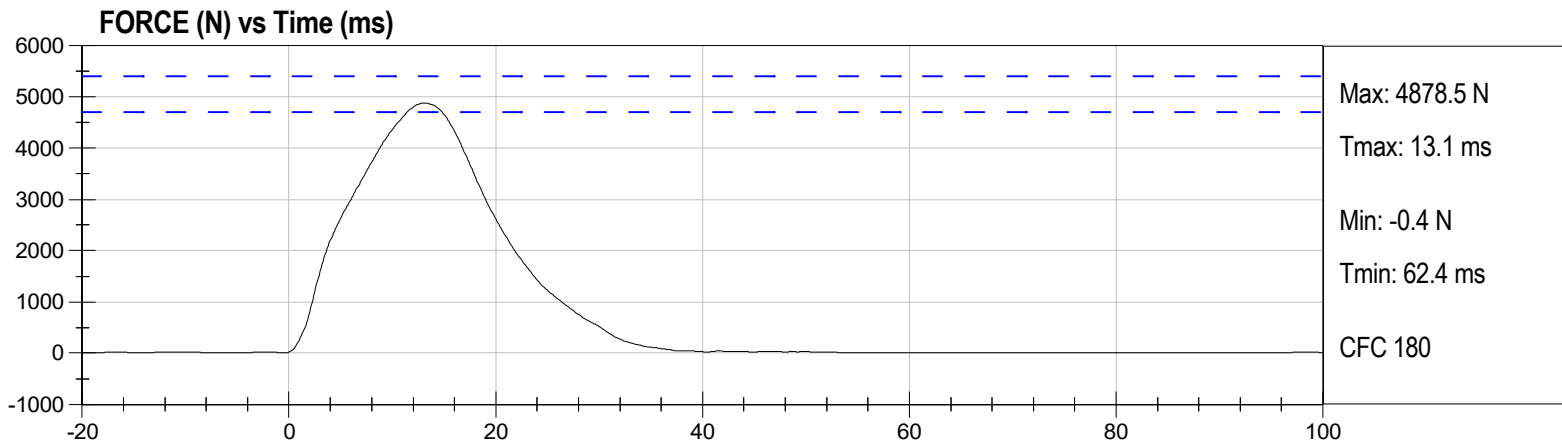


POT. C - HEADFORM (deg) vs Time (ms)



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.6	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	4.2 to 4.4	4.31	Pass
Peak Probe Force	N	4700 to 5400	4879	Pass
Time of Peak Probe Force	ms	11.8 to 16.1	13.1	Pass
Peak Pubic Force	N	1230 to 1590	1358	Pass
Time of Peak Pubic Force	ms	12.2 to 17.0	14.1	Pass

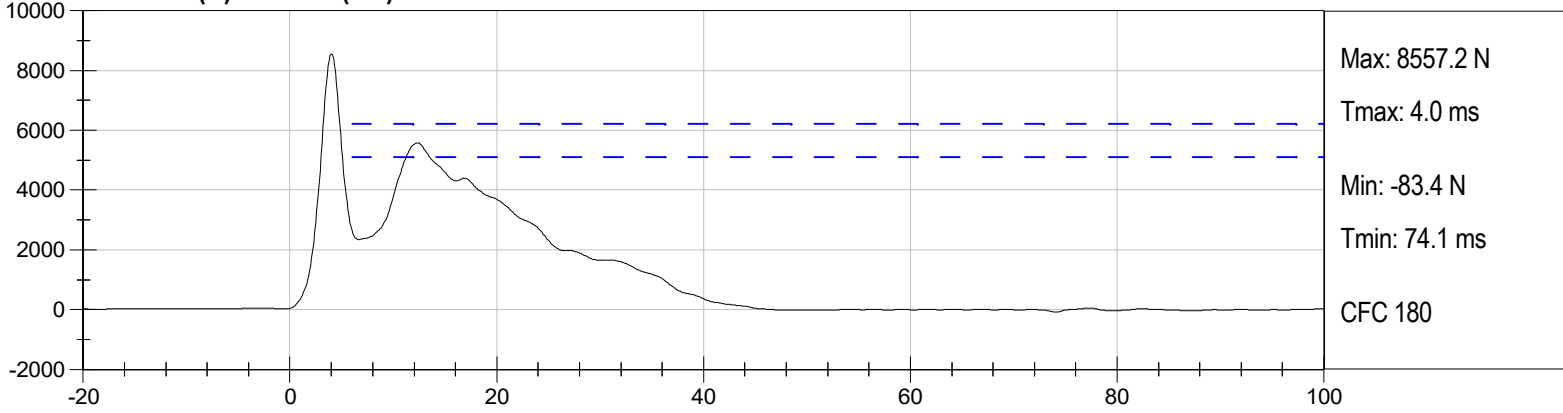
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
PUBIC SYMPHYSIS FY	Denton	PG461FY	01/20/2025	1/20/2026



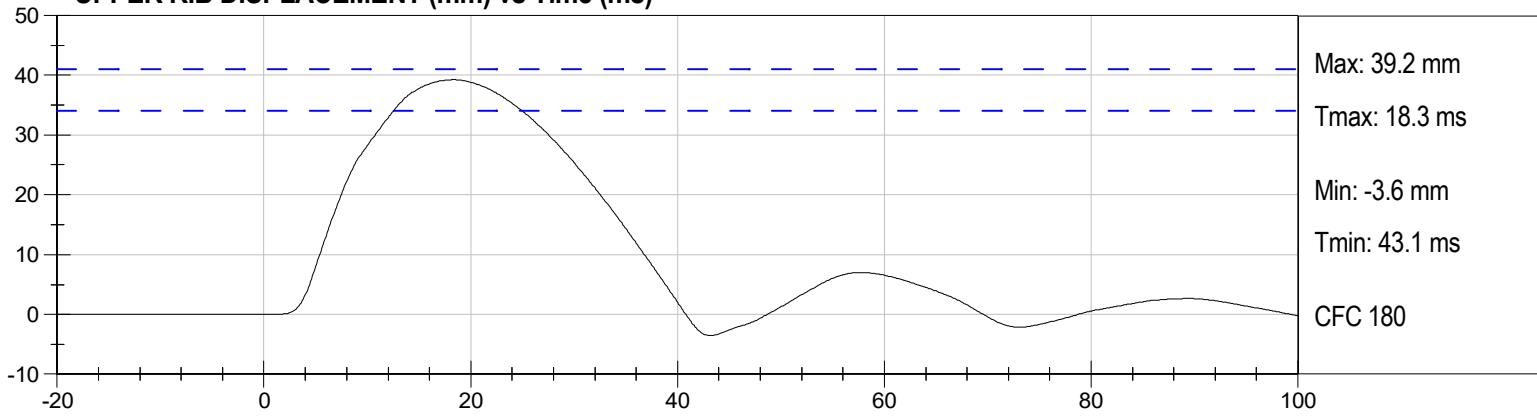
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.6	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	5.4 to 5.6	5.46	Pass
Peak Probe Force after 6 ms	N	5100 to 6200	5576	Pass
Maximum Upper Thorax Rib Displacement	mm	34 to 41	39.2	Pass
Maximum Middle Thorax Rib Displacement	mm	37 to 45	40.5	Pass
Maximum Lower Thorax Rib Displacement	mm	37 to 44	39.0	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
UPPER RIB DISPLACEMENT	Honeywell	G236	05/15/2025	11/14/2025
MID RIB DISPLACEMENT	Honeywell	G368	05/15/2025	11/14/2025
LOWER RIB DISPLACEMENT	Honeywell	G164	05/15/2025	11/14/2025

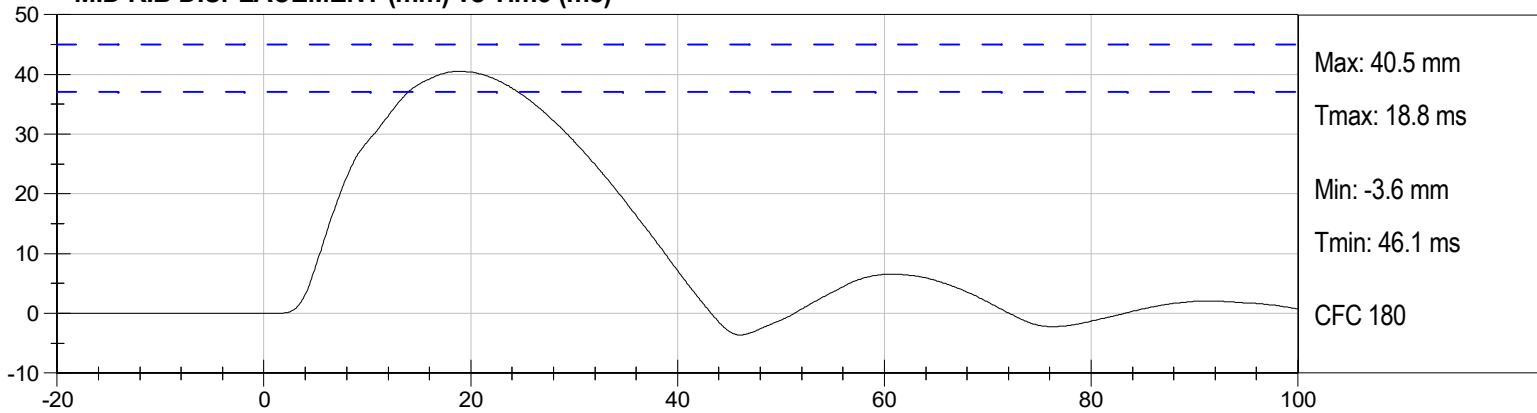
FORCE (N) vs Time (ms)



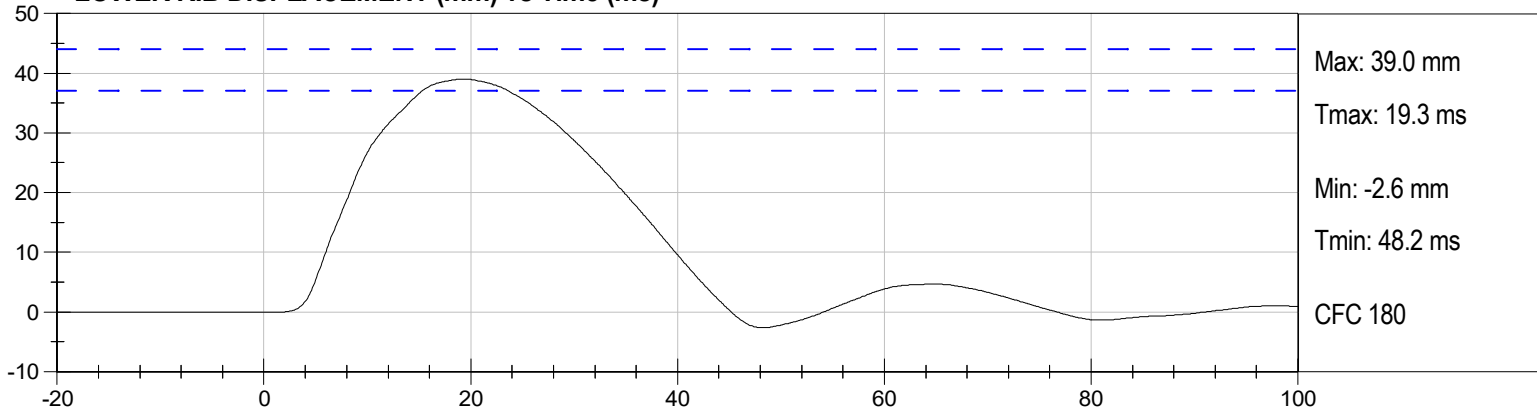
UPPER RIB DISPLACEMENT (mm) vs Time (ms)



MID RIB DISPLACEMENT (mm) vs Time (ms)



LOWER RIB DISPLACEMENT (mm) vs Time (ms)



QUALIFICATION TEST RESULTS

PRE-TEST

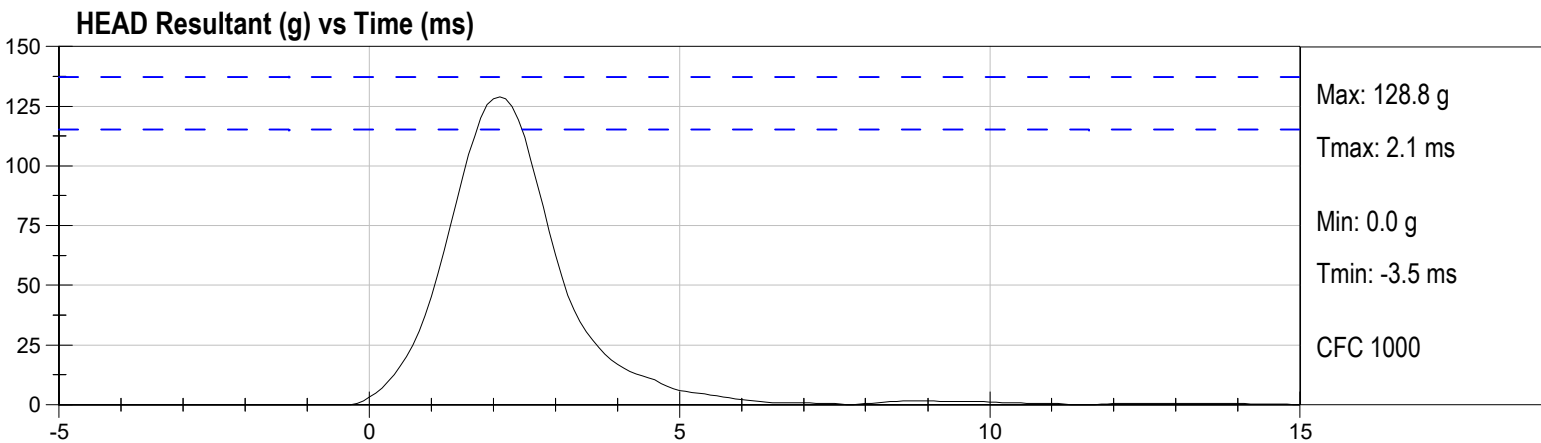
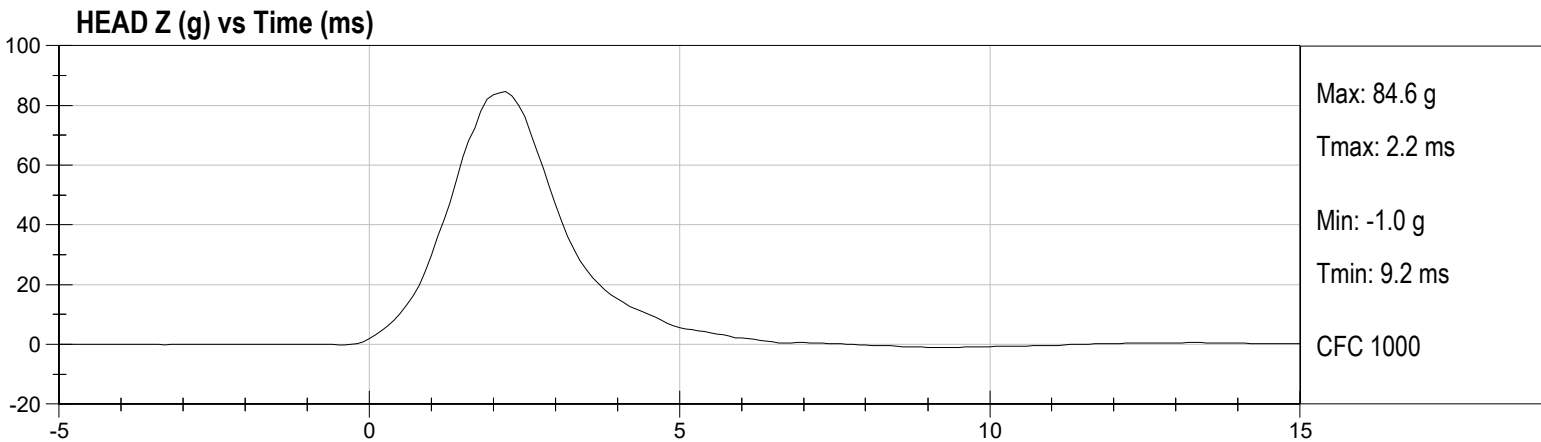
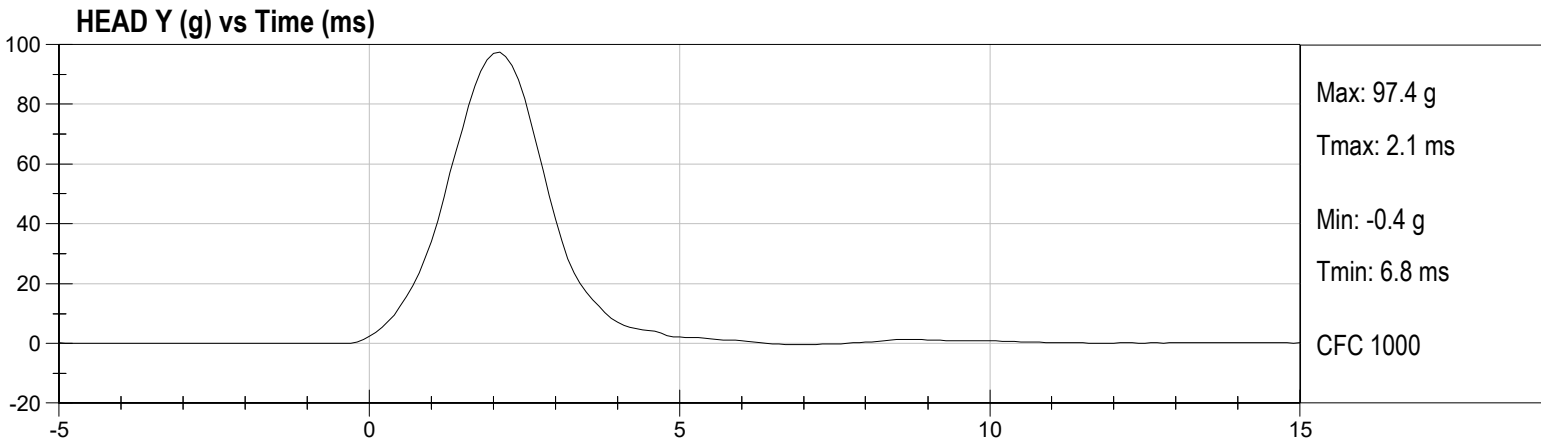
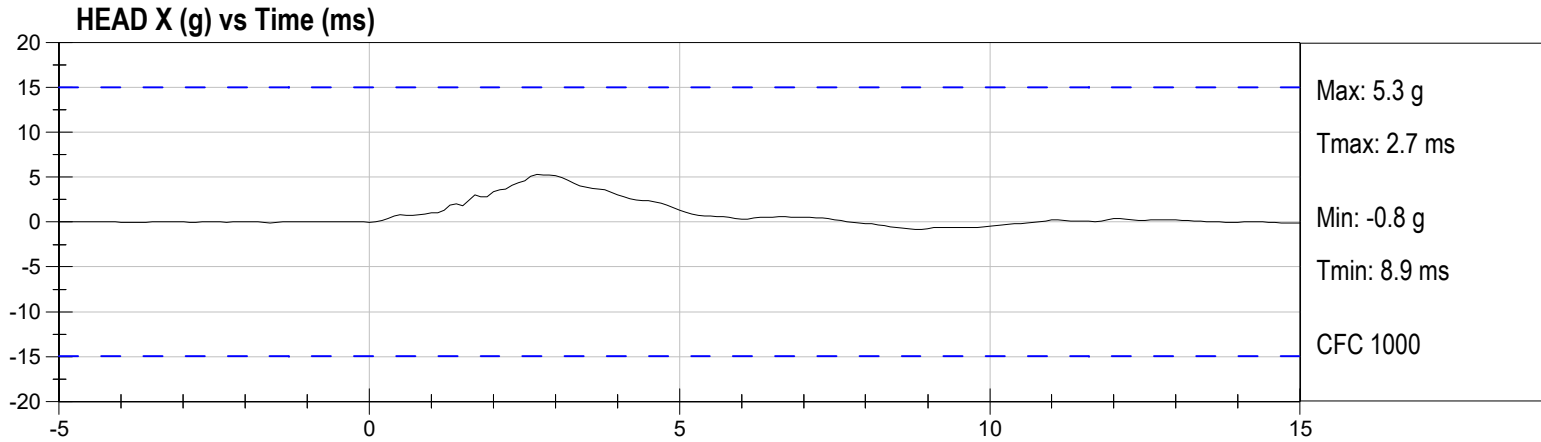
SID-IIS 5TH PERCENTILE FEMALE - PASSENGER ATD

SID-IIsD External Measurements
SN: 306

No.	Name	Spec. (mm)	Result	Pass/Fail
A	Sitting Height	772 - 788	785	Pass
B	Shoulder Pivot Height	437 - 453	449	Pass
C	H-point Height	79 - 89	86	Pass
D	H-point from Seatback	141 - 151	147	Pass
E	Shoulder Pivot from Backline	97 - 107	99	Pass
F	Thigh Clearance	119 -135	120	Pass
G	Head Breadth	140 - 148	141	Pass
H	Head Back from Backline	40 - 46	45	Pass
I	Head Depth	178 - 188	182	Pass
J	Head Circumference	541 - 551	550	Pass
K	Buttock to Knee Length	514 - 540	538	Pass
L	Popliteal Height	343 - 369	349	Pass
M	Knee Pivot to Floor Height	392 - 409	394	Pass
N	Buttock Popliteal Length	416 - 442	435	Pass
O	Chest Depth w/o Jacket	195 - 211	198	Pass
P	Foot Length	216 - 232	222	Pass
Q	Hip Breadth (w/ pelvic plugs)	313 - 323	317	Pass
R	Arm Length	249 - 259	250	Pass
S	Knee Joint to Seatback	477 - 493	483	Pass
V	Shoulder Width	341 - 357	351	Pass
W	Foot Width	78 - 94	82	Pass
Y	Chest Circumference w/ jacket	851 - 881	863	Pass
Z	Waist Circumference	761 - 791	782	Pass

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Peak Resultant Acceleration	g	115 to 137	129	Pass
Peak Longitudinal Acceleration	g	-15.0 to 15.0	5.3	Pass
Unimodal	%	within 15% of peak	1	Pass

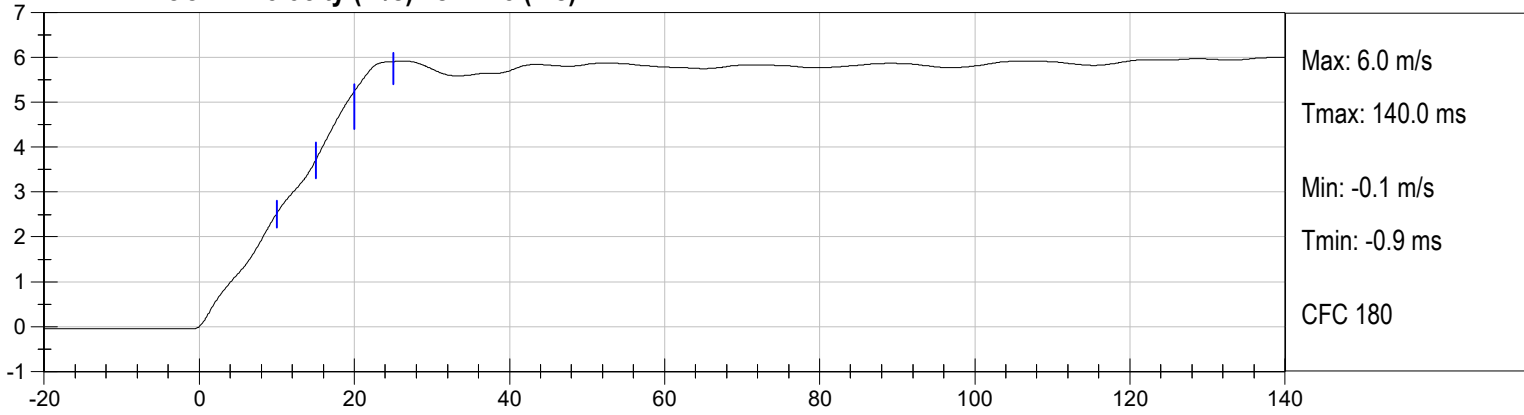
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
HEAD Y	Endevco	T30974	05/27/2025	11/26/2025
HEAD X	Endevco	T30975	05/27/2025	11/26/2025
HEAD Z	Endevco	T30976	05/27/2025	11/26/2025



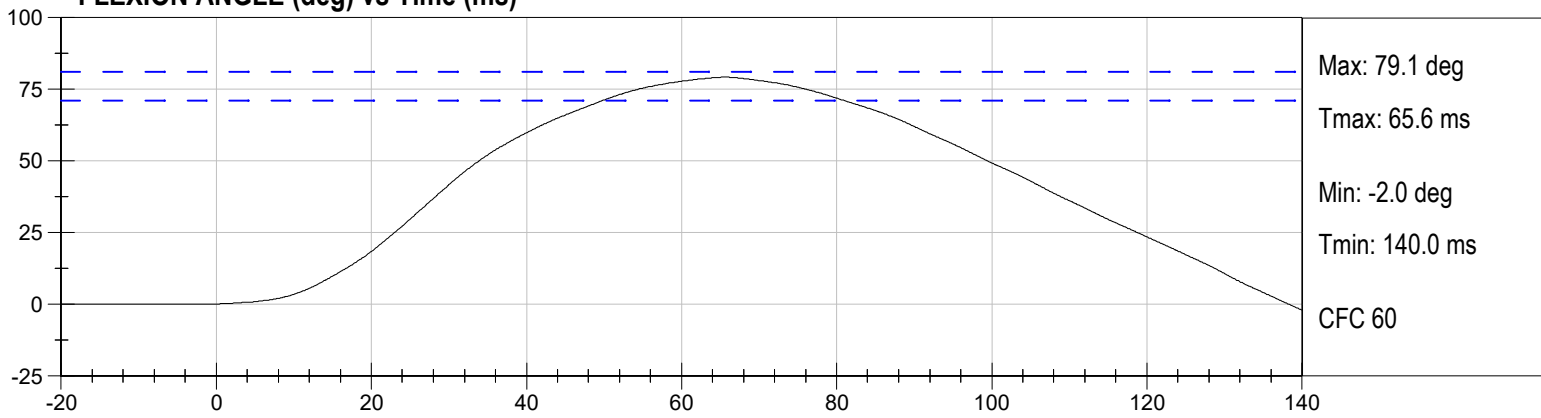
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	5.51 to 5.63	5.52	Pass
Pendulum Velocity at 10 ms	m/s	2.20 to 2.80	2.50	Pass
Pendulum Velocity at 15 ms	m/s	3.30 to 4.10	3.68	Pass
Pendulum Velocity at 20 ms	m/s	4.40 to 5.40	5.22	Pass
Pendulum Velocity at 25 ms	m/s	5.40 to 6.10	5.91	Pass
Peak Pendulum Velocity from 25 to 100 ms	m/s	5.50 to 6.20	5.92	Pass
Maximum "D" Plane Rotation	deg	71 to 81	79	Pass
Time of Maximum "D" Plane Rotation	ms	50 to 70	66	Pass
Maximum Moment About Occipital Condyle	Nm	-44 to -36	-36	Pass
Time of Moment Decay Time To 0 Nm	ms	102 to 126	122	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PEND. ACCEL.	Endevco	AH5P1	07/09/2025	1/8/2026
NECK FORCE Y	Denton	N1021FY	02/19/2025	2/19/2026
NECK MOMENT X	Denton	N1021MX	02/19/2025	2/19/2026
POT. A - FRONT	Servo	2732	07/16/2025	1/15/2026
POT. C - HEADFORM	Servo	2204	07/16/2025	1/15/2026

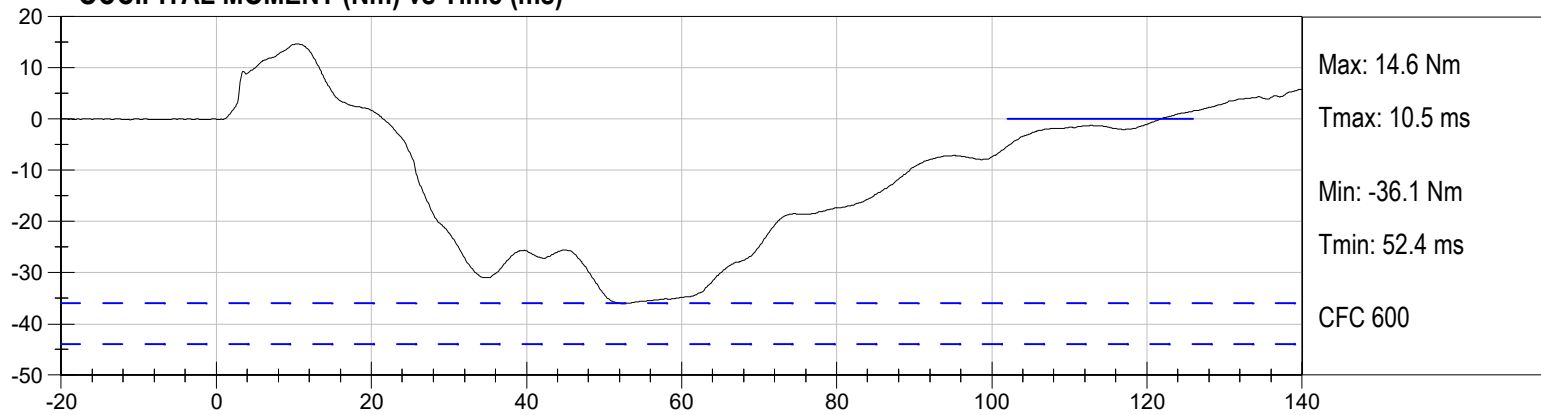
PEND. ACCEL. Velocity (m/s) vs Time (ms)



FLEXION ANGLE (deg) vs Time (ms)

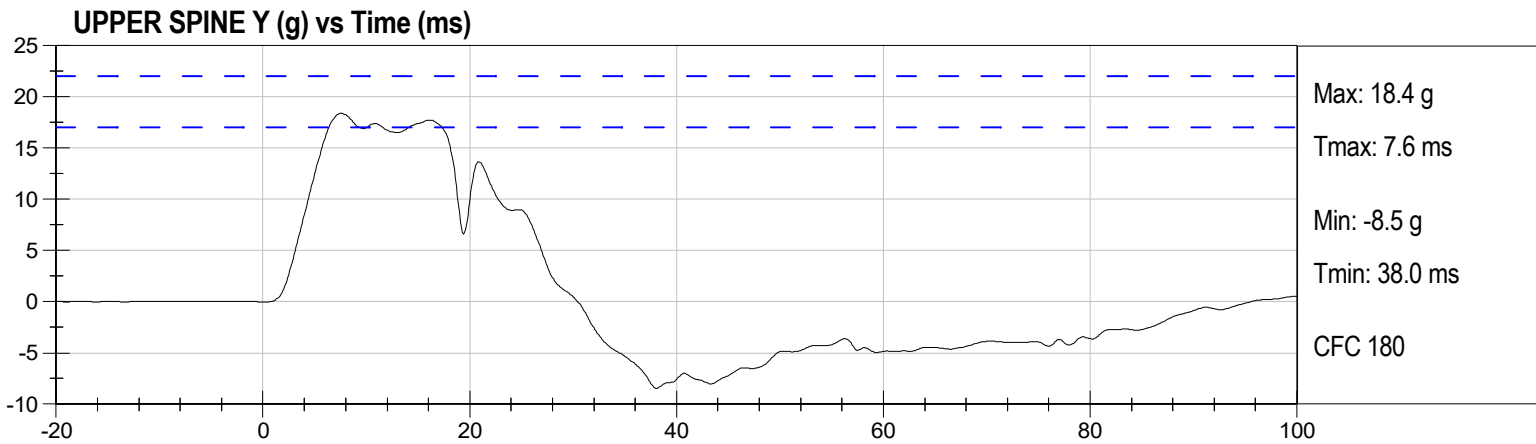
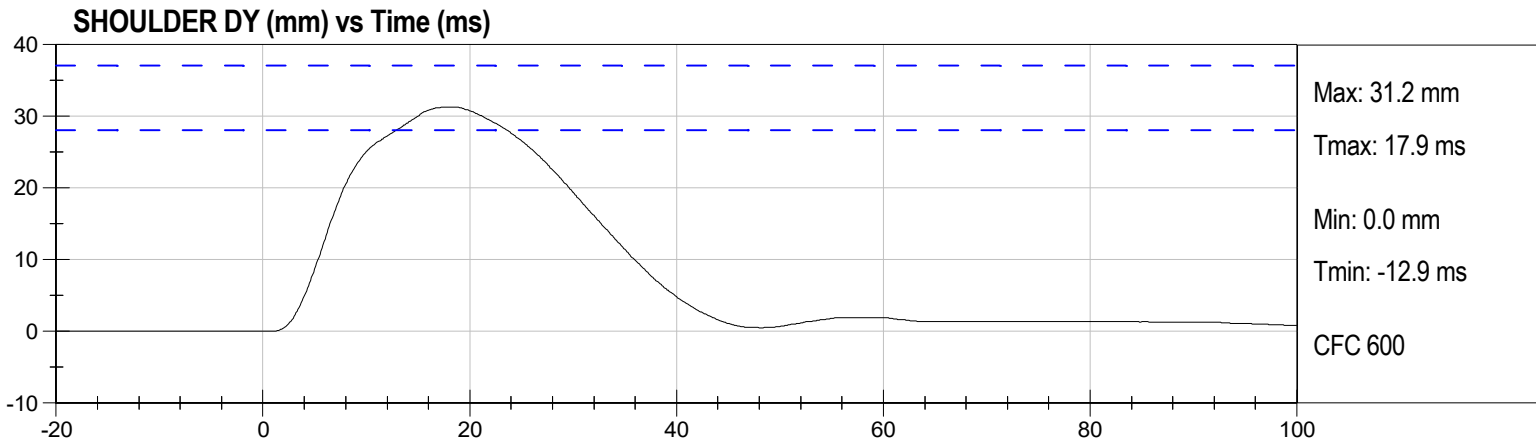
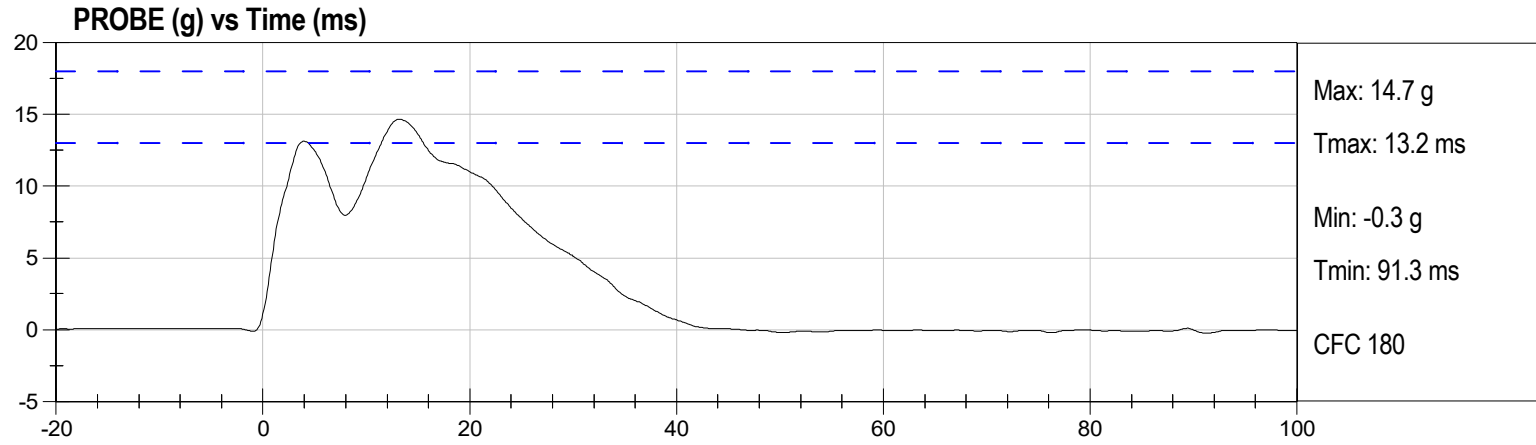


OCCIPITAL MOMENT (Nm) vs Time (ms)



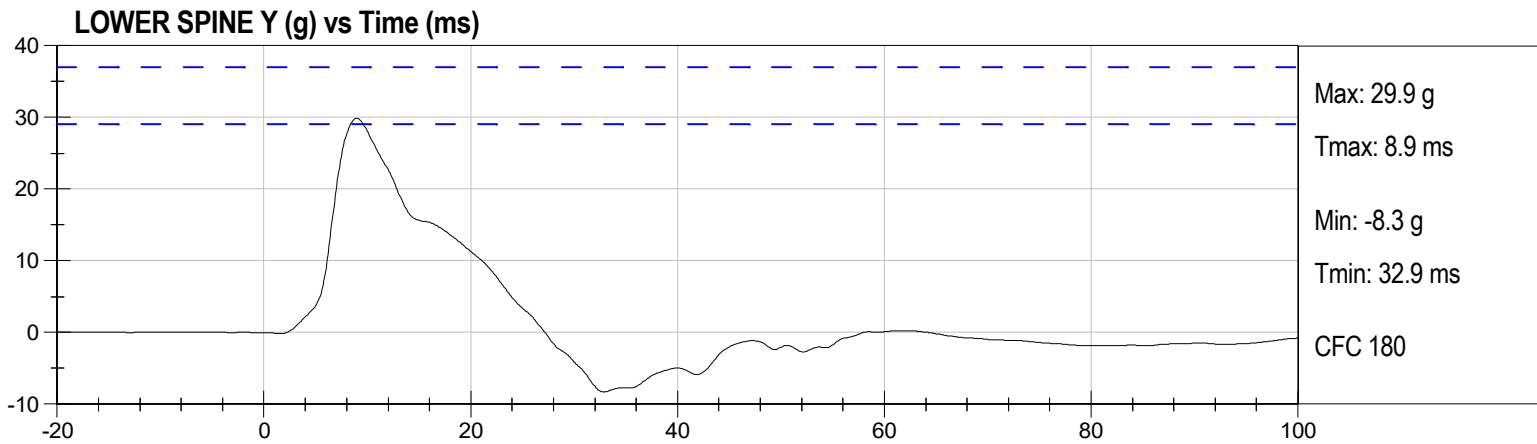
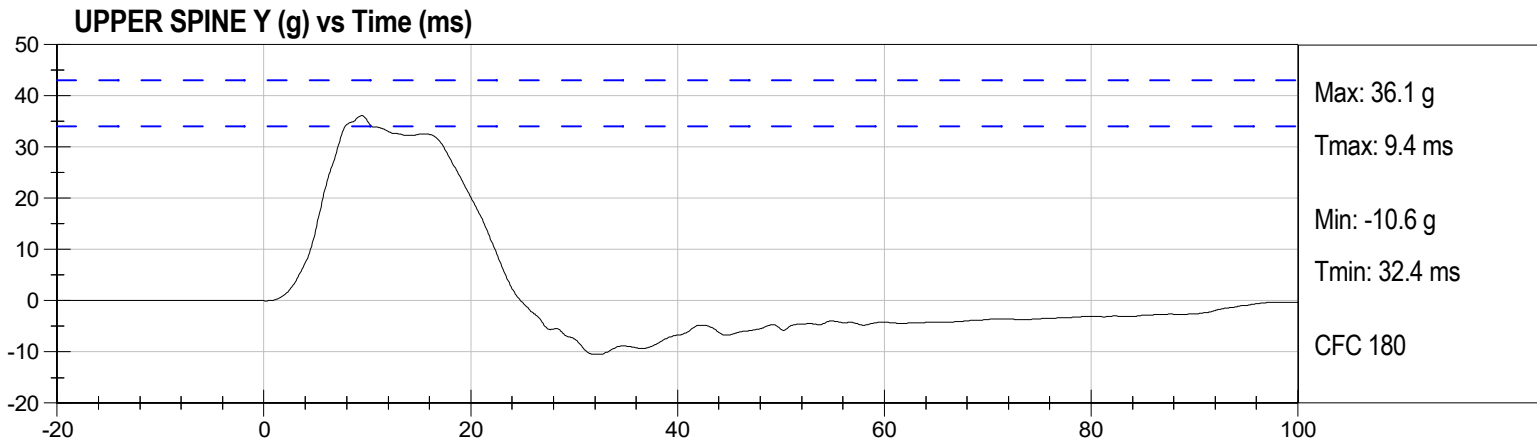
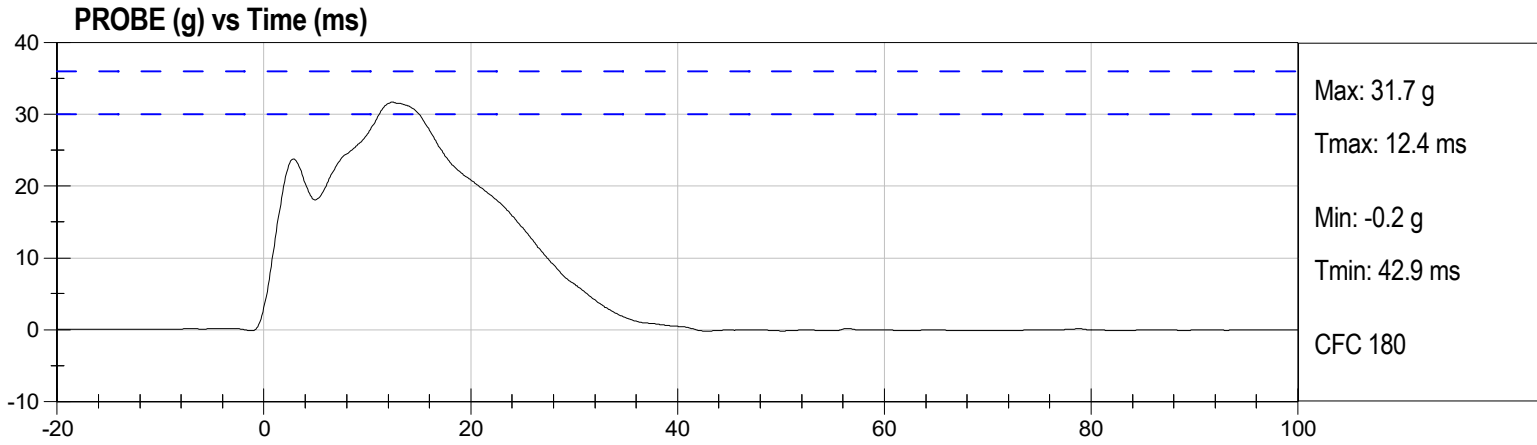
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.21	Pass
Peak Probe Acceleration	g	13 to 18	15	Pass
Shoulder Displacement	mm	28 to 37	31	Pass
Upper Spine (T1) Y Acceleration	g	17 to 22	18	Pass

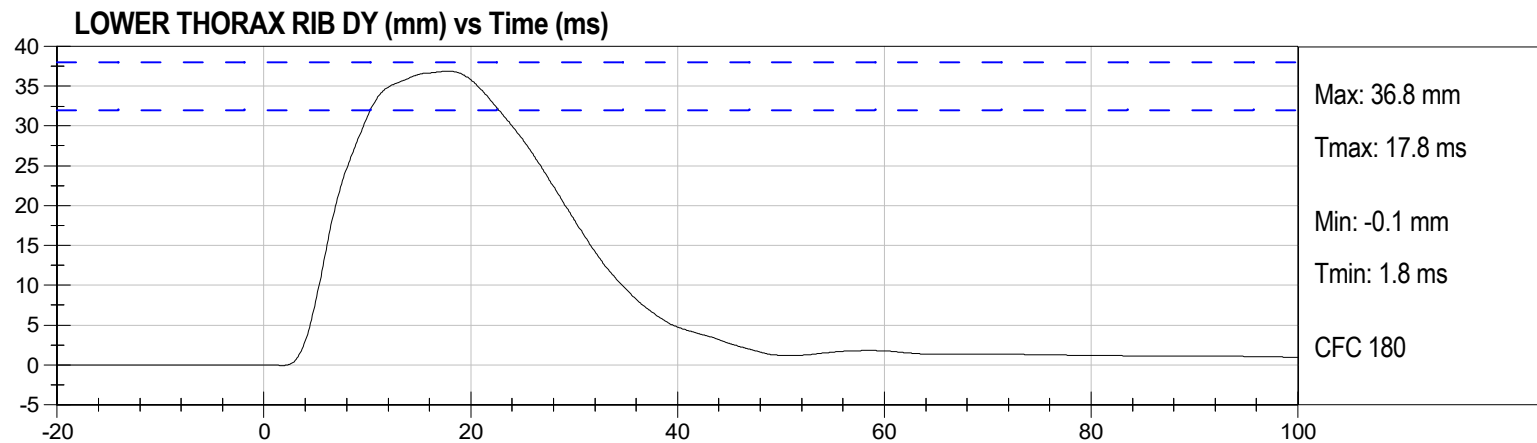
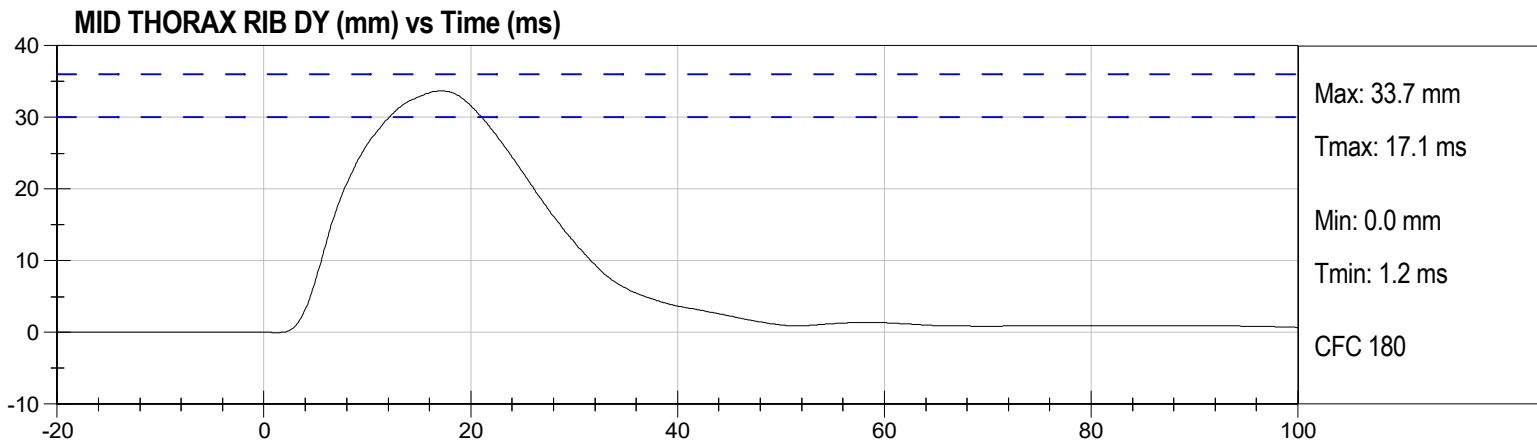
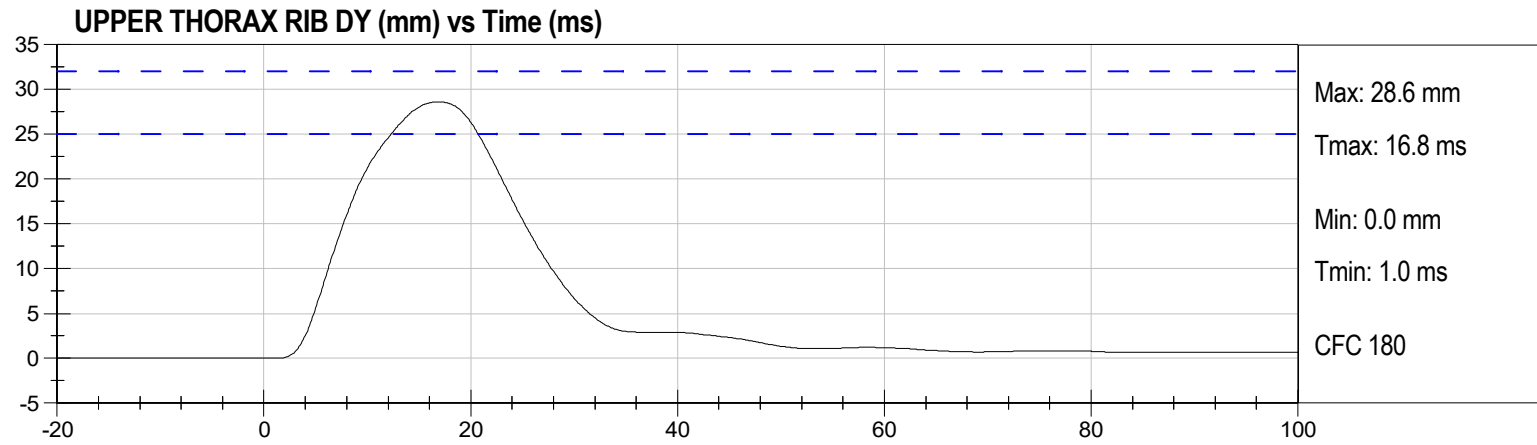
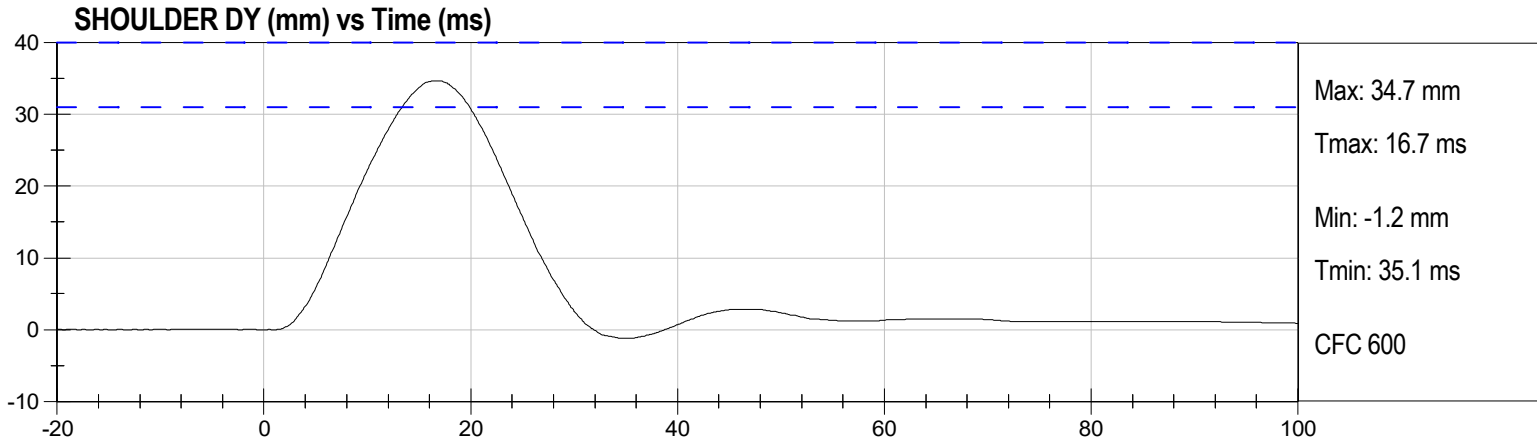
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P82319	05/27/2025	11/26/2025
SHOULDER DY	FTSS	G050	05/28/2025	11/27/2025



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	6.6 to 6.8	6.77	Pass
Peak Probe Acceleration after 5 ms	g	30 to 36	32	Pass
Upper Spine (T1) Y Acceleration	g	34 to 43	36	Pass
Lower Spine (T12) Y Acceleration	g	29 to 37	30	Pass
Shoulder Displacement	mm	31 to 40	35	Pass
Upper Thorax Rib Displacement	mm	25 to 32	29	Pass
Middle Thorax Rib Displacement	mm	30 to 36	34	Pass
Lower Thorax Rib Displacement	mm	32 to 38	37	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P82319	05/27/2025	11/26/2025
LOWER SPINE Y	Endevco	P96335	05/27/2025	11/26/2025
SHOULDER DY	FTSS	G050	05/28/2025	11/27/2025
UPPER THORAX RIB DY	FTSS	G033	05/28/2025	11/27/2025
MID THORAX RIB DY	Servo	G2403	05/28/2025	11/27/2025
LOWER THORAX RIB DY	FTSS	G1270	05/28/2025	11/27/2025

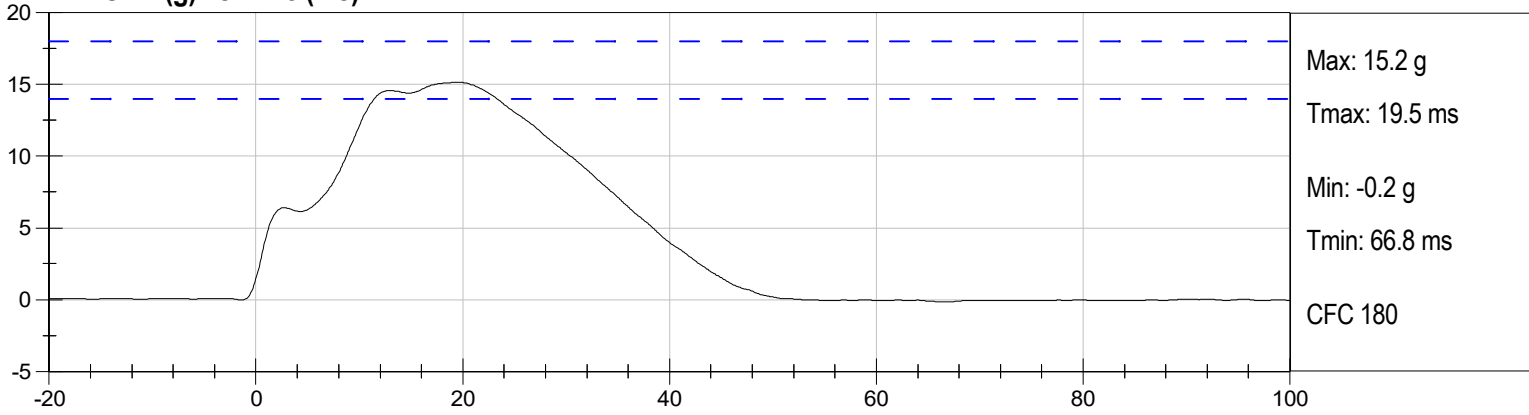




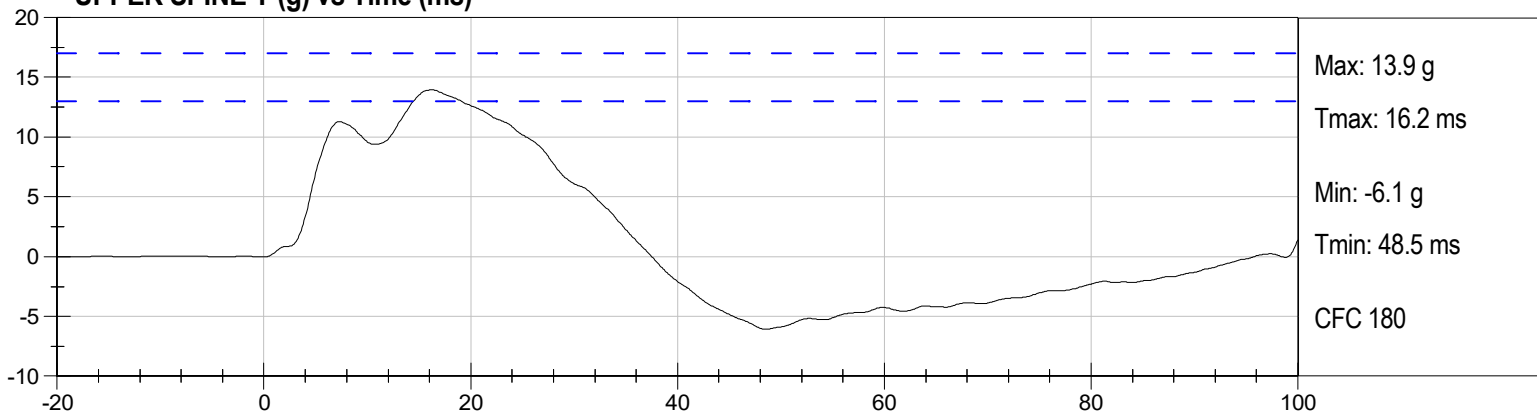
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.22	Pass
Peak Probe Acceleration	g	14 to 18	15	Pass
Upper Spine (T1) Y Acceleration	g	13 to 17	14	Pass
Lower Spine (T12) Y Acceleration	g	7 to 11	9	Pass
Upper Thorax Rib Displacement	mm	32 to 40	35	Pass
Middle Thorax Rib Displacement	mm	39 to 45	42	Pass
Lower Thorax Rib Displacement	mm	35 to 43	41	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P82319	05/27/2025	11/26/2025
LOWER SPINE Y	Endevco	P96335	05/27/2025	11/26/2025
UPPER THORAX RIB DY	FTSS	G033	05/28/2025	11/27/2025
MID THORAX RIB DY	Servo	G2403	05/28/2025	11/27/2025
LOWER THORAX RIB DY	FTSS	G1270	05/28/2025	11/27/2025

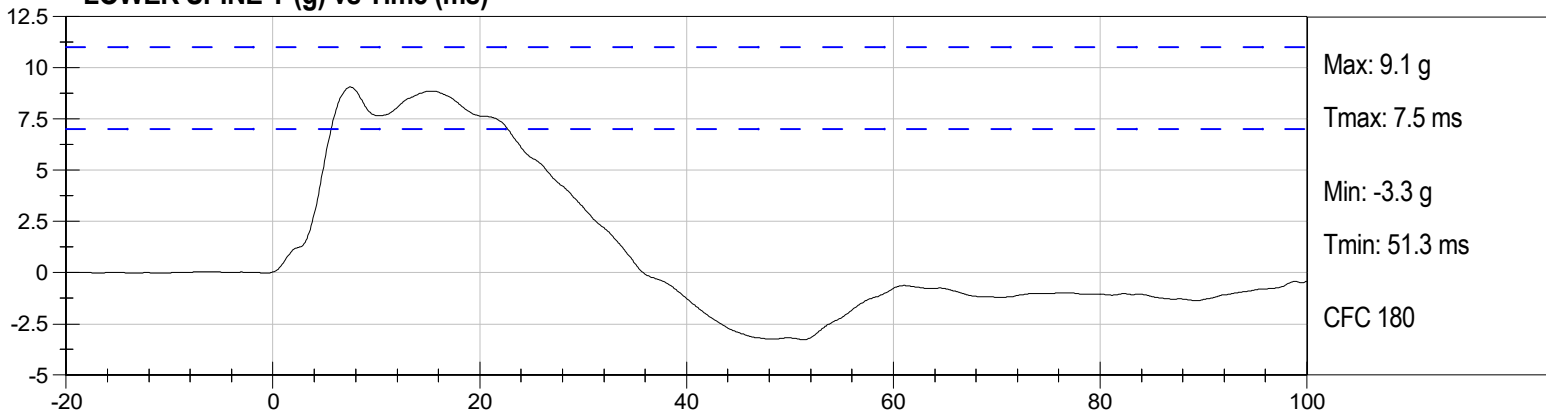
PROBE (g) vs Time (ms)



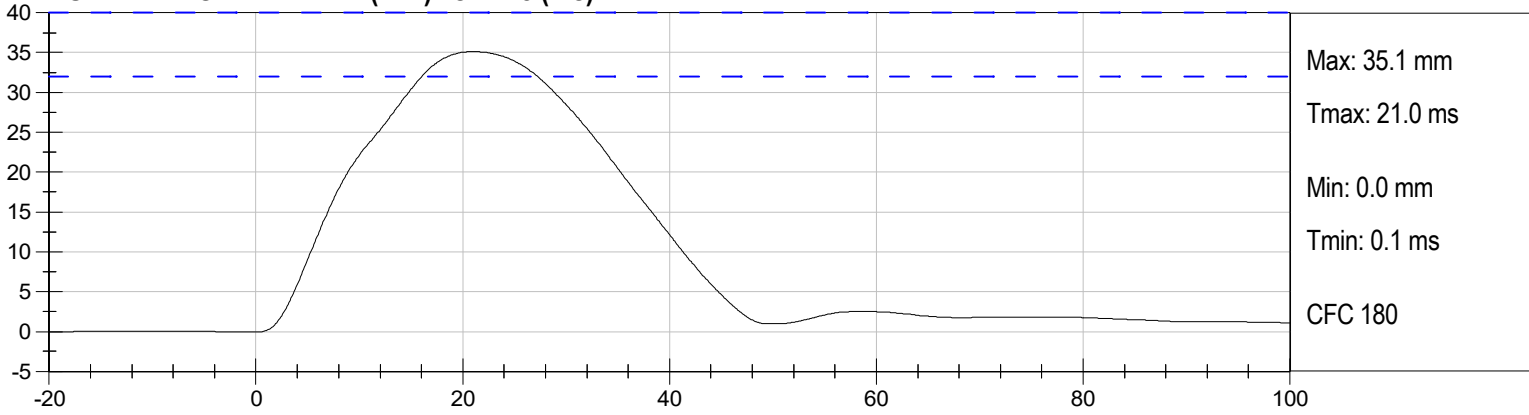
UPPER SPINE Y (g) vs Time (ms)



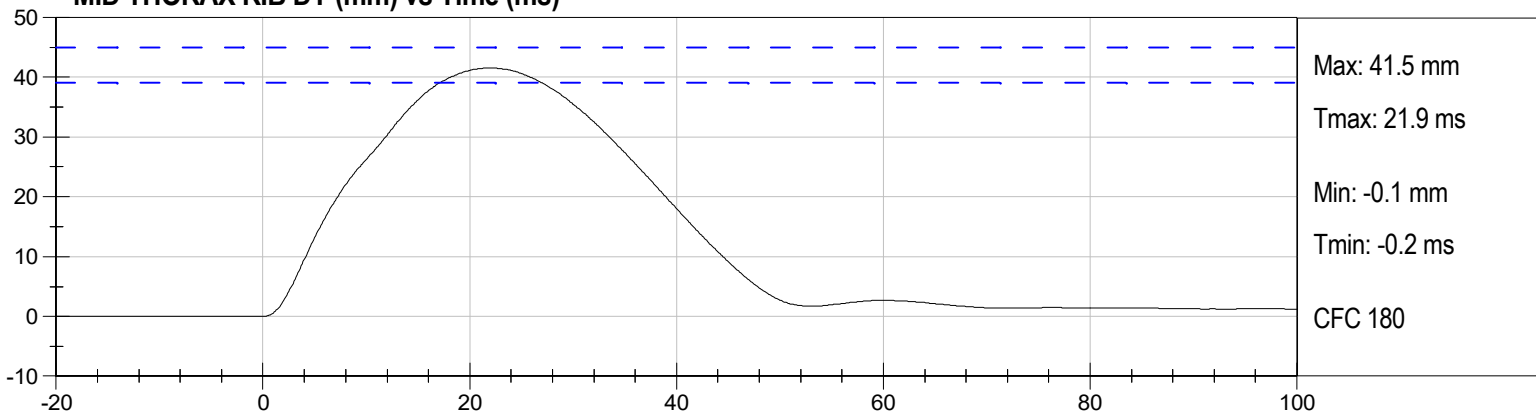
LOWER SPINE Y (g) vs Time (ms)



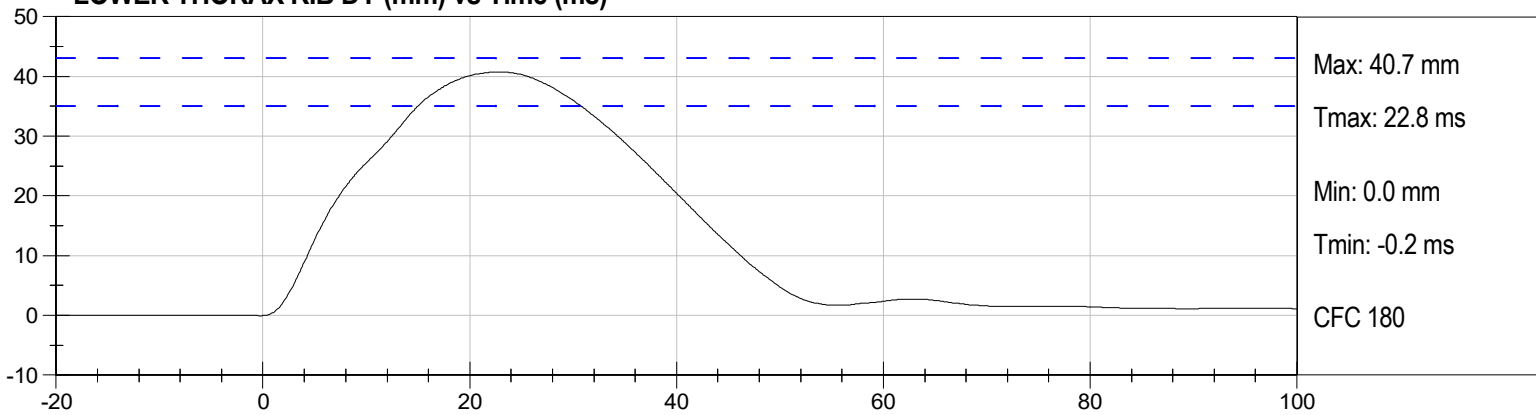
UPPER THORAX RIB DY (mm) vs Time (ms)



MID THORAX RIB DY (mm) vs Time (ms)



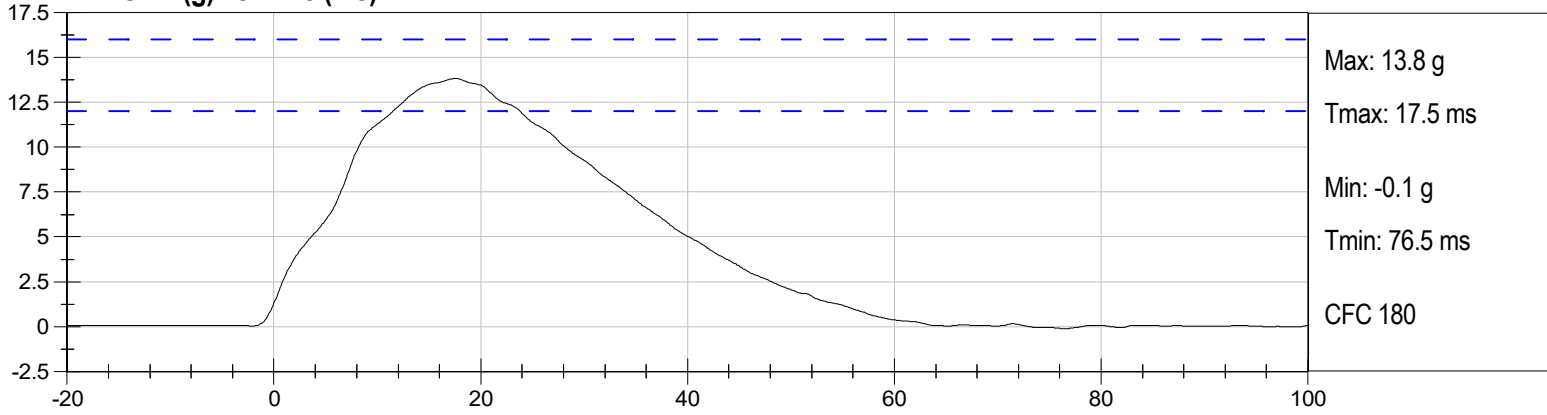
LOWER THORAX RIB DY (mm) vs Time (ms)



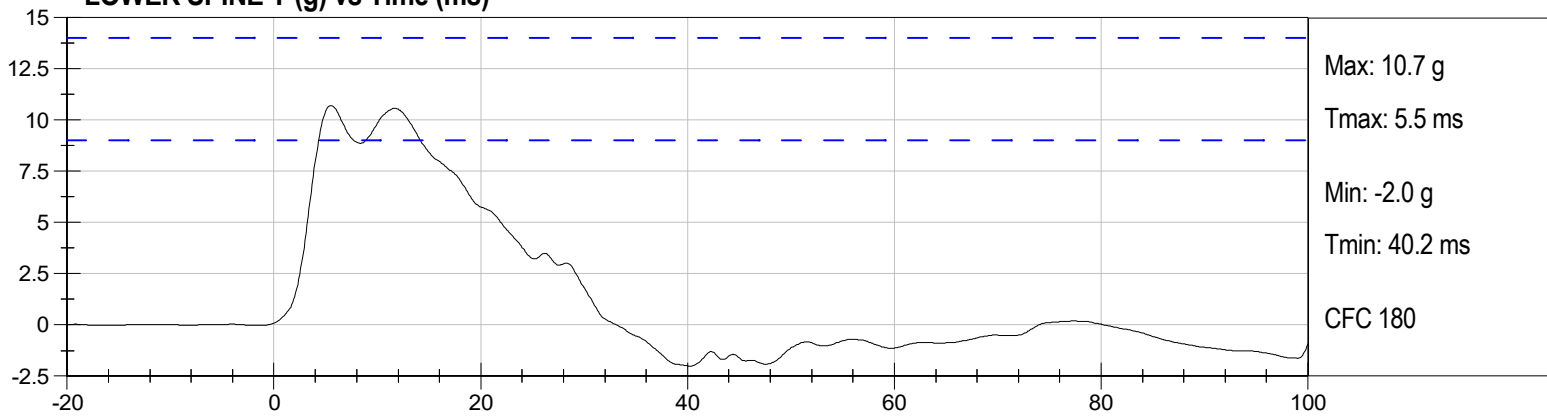
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	4.2 to 4.4	4.27	Pass
Peak Probe Acceleration	g	12 to 16	14	Pass
Lower Spine (T12) Y Acceleration	g	9 to 14	11	Pass
Upper Abdomen Rib Displacement	mm	36 to 47	43	Pass
Lower Abdomen Rib Displacement	mm	33 to 44	42	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
LOWER SPINE Y	Endevco	P96335	05/27/2025	11/26/2025
UPPER ABDOMINAL RIB DY	FTSS	G032	05/28/2025	11/27/2025
LOWER ABDOMINAL RIB DY	Medius	MJ5171	05/28/2025	11/27/2025

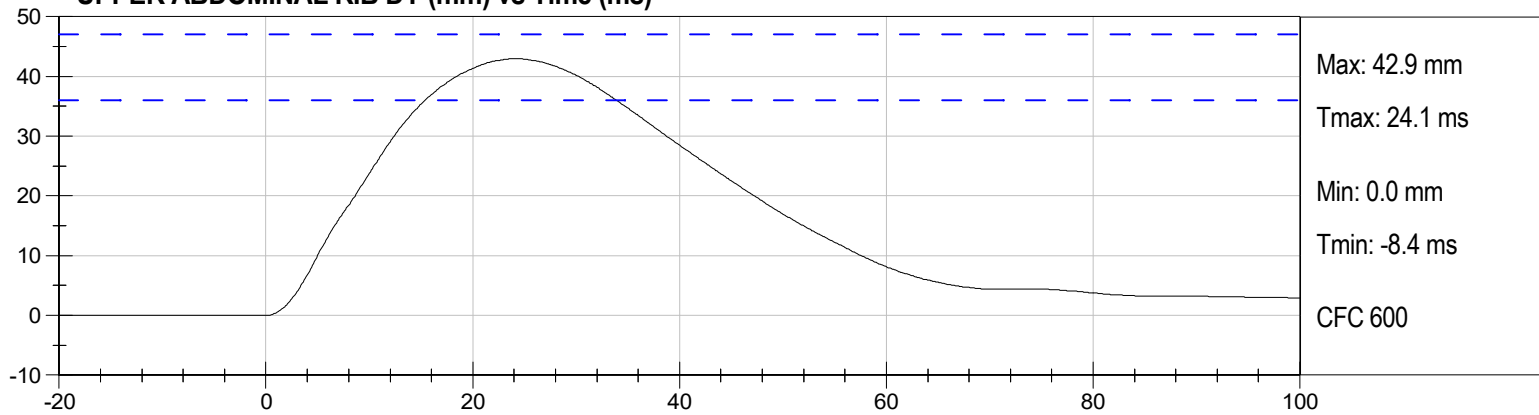
PROBE (g) vs Time (ms)



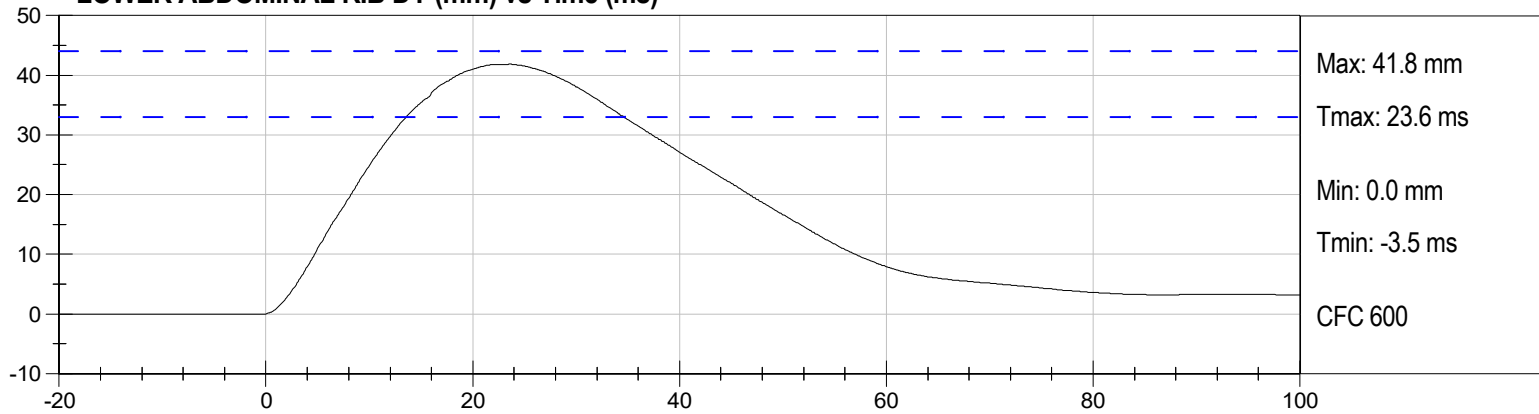
LOWER SPINE Y (g) vs Time (ms)



UPPER ABDOMINAL RIB DY (mm) vs Time (ms)



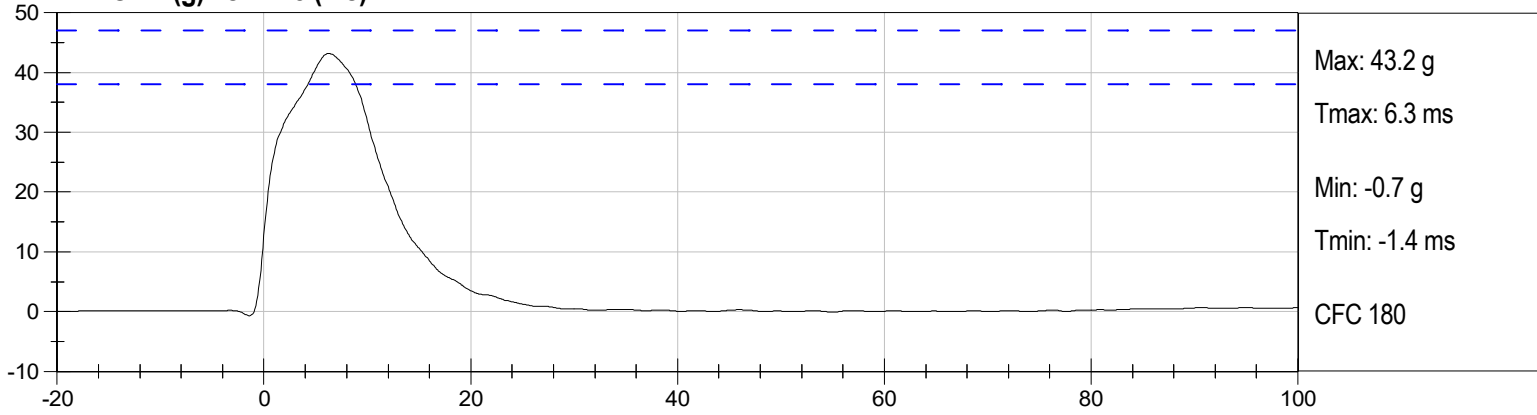
LOWER ABDOMINAL RIB DY (mm) vs Time (ms)



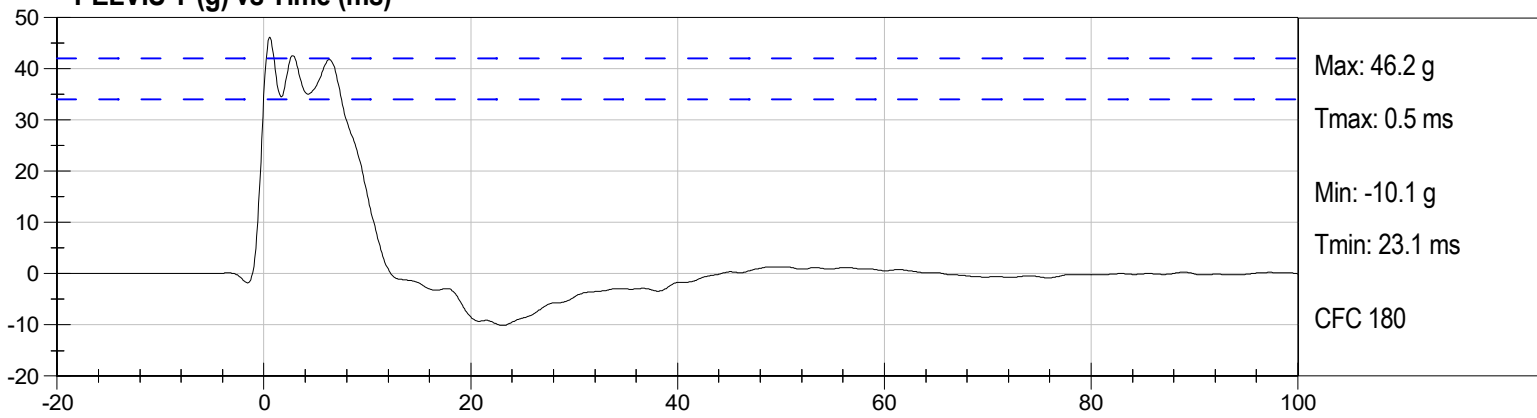
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	6.6 to 6.8	6.77	Pass
Peak Probe Acceleration	g	38 to 47	43	Pass
Peak Pelvis Y Acceleration after 6 ms	g	34 to 42	41.8	Pass
Acetabulum Force	N	3600 to 4300	4013	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
PELVIS Y	Endevco	P82673	05/27/2025	11/26/2025
ACETABULUM FY	FTSS	ACG4285FY	05/28/2025	5/28/2026

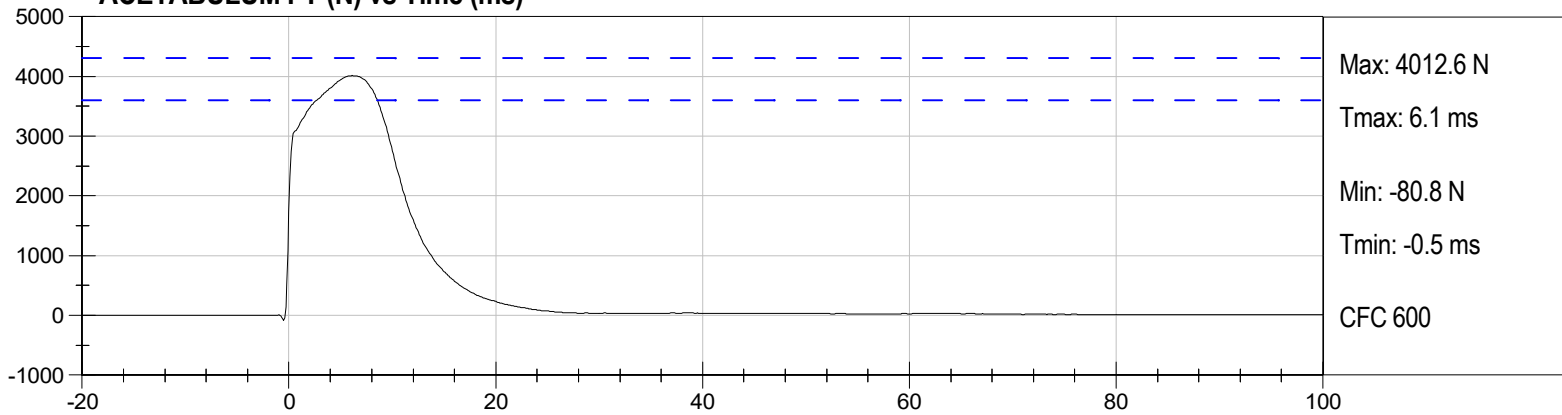
PROBE (g) vs Time (ms)



PELVIS Y (g) vs Time (ms)



ACETABULUM FY (N) vs Time (ms)





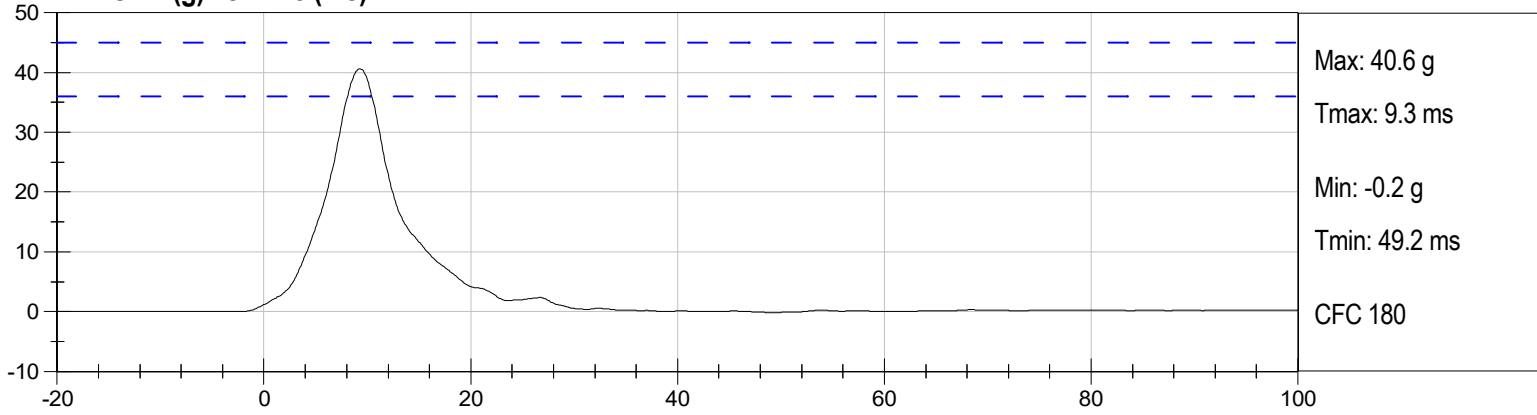
Iliac Impact Test
SID IIs
ATD Serial No: 306

Test Date: 09/04/2025
Test ID: D252538
Test Technician: Maggie LaRose

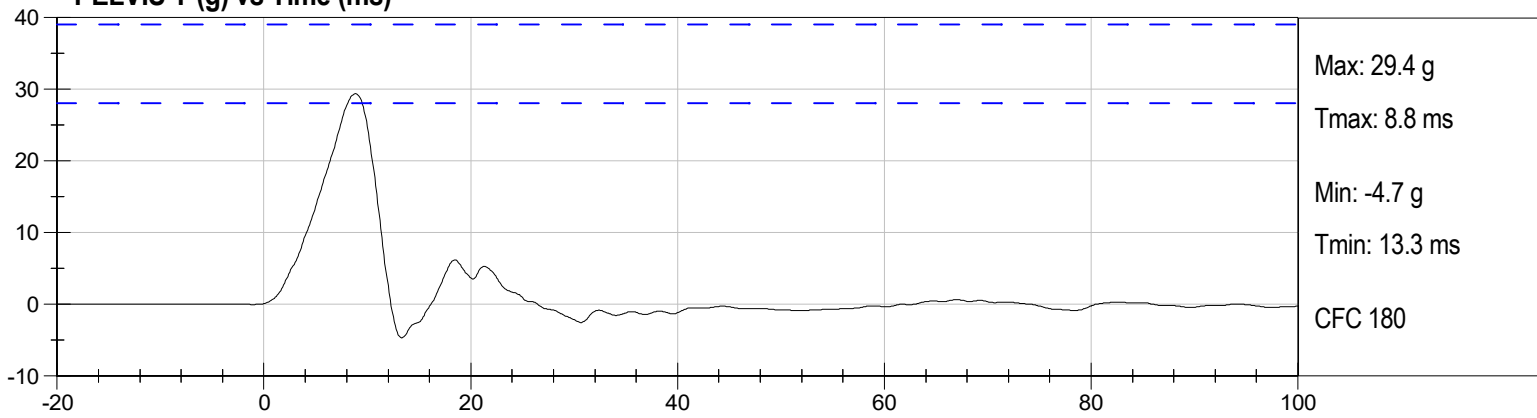
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	4.2 to 4.4	4.21	Pass
Peak Probe Acceleration	g	36 to 45	41	Pass
Peak Pelvis Y Acceleration	g	28 to 39	29	Pass
Iliac Force	N	4100 to 5100	4699	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
PELVIS Y	Endevco	P82673	05/27/2025	11/26/2025
ILIUM CREST FY	FTSS	IWG3023FY	05/28/2025	5/28/2026

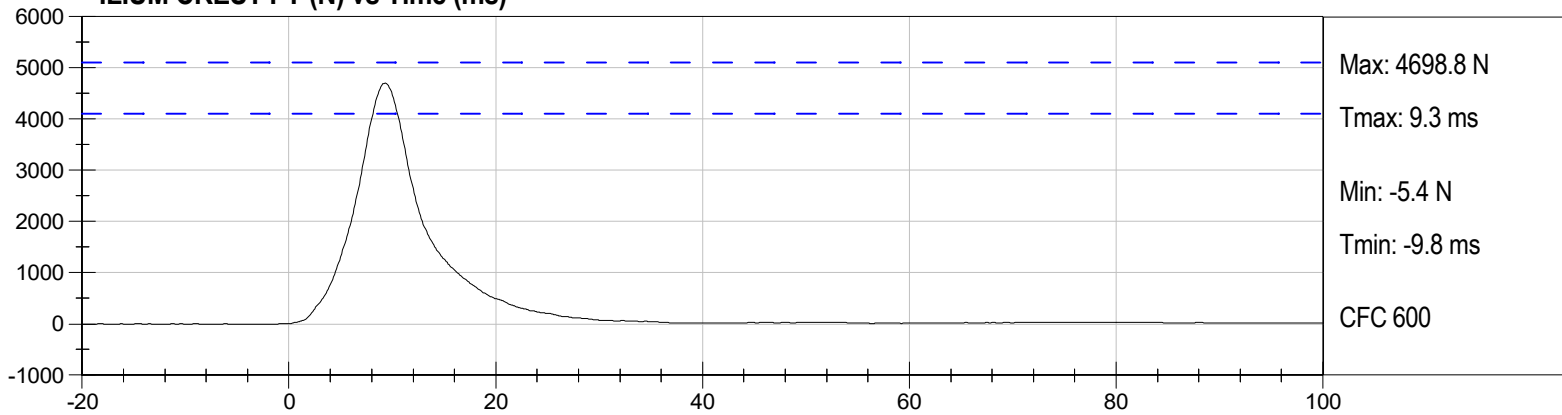
PROBE (g) vs Time (ms)



PELVIS Y (g) vs Time (ms)



ILIUM CREST FY (N) vs Time (ms)



QUALIFICATION TEST RESULTS

POST-TEST

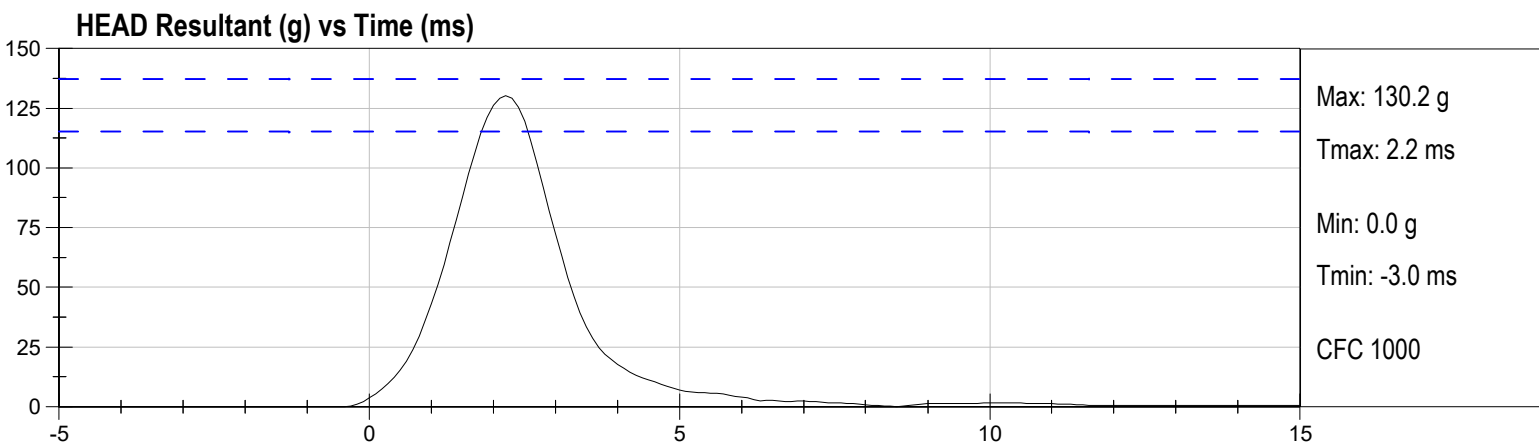
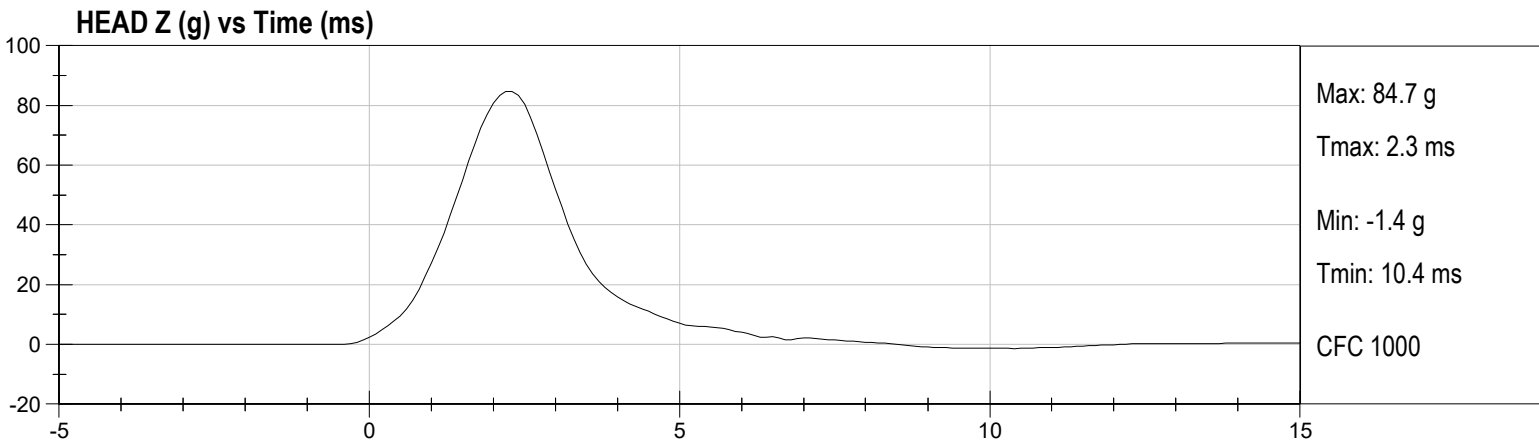
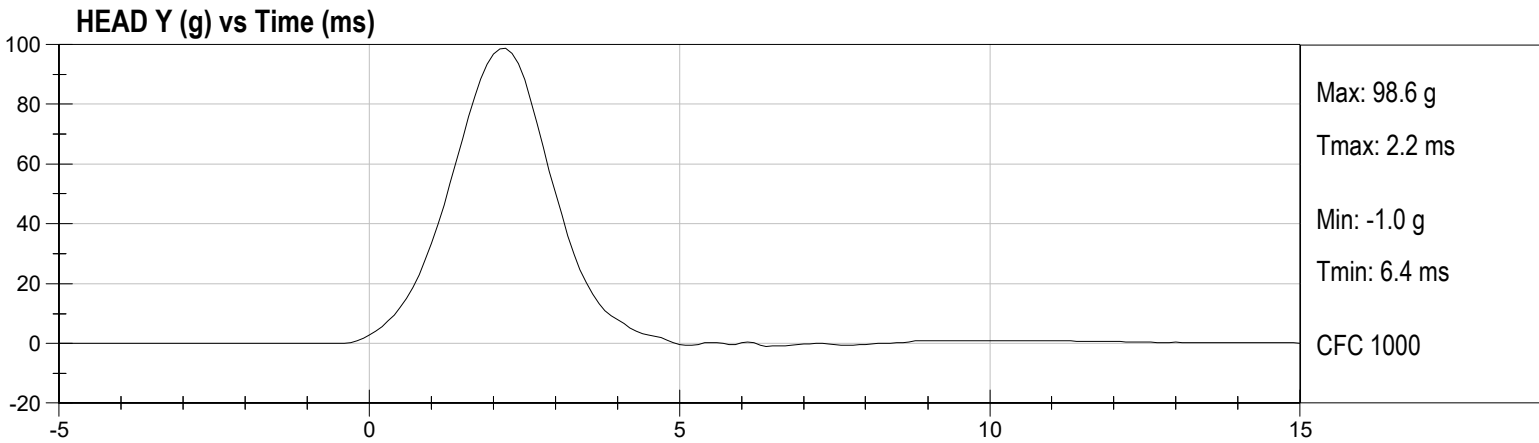
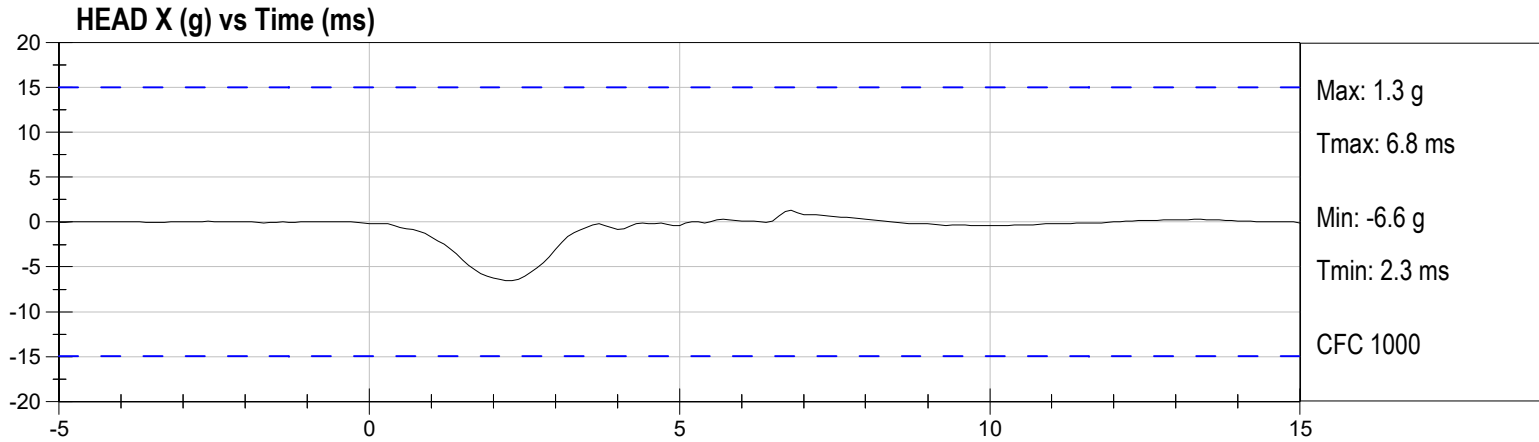
SID-IIS 5TH PERCENTILE FEMALE - PASSENGER ATD

SID-IIsD External Measurements
SN: 306

No.	Name	Spec. (mm)	Result	Pass/Fail
A	Sitting Height	772 - 788	785	Pass
B	Shoulder Pivot Height	437 - 453	449	Pass
C	H-point Height	79 - 89	86	Pass
D	H-point from Seatback	141 - 151	147	Pass
E	Shoulder Pivot from Backline	97 - 107	99	Pass
F	Thigh Clearance	119 -135	120	Pass
G	Head Breadth	140 - 148	141	Pass
H	Head Back from Backline	40 - 46	45	Pass
I	Head Depth	178 - 188	182	Pass
J	Head Circumference	541 - 551	550	Pass
K	Buttock to Knee Length	514 - 540	538	Pass
L	Popliteal Height	343 - 369	349	Pass
M	Knee Pivot to Floor Height	392 - 409	394	Pass
N	Buttock Popliteal Length	416 - 442	435	Pass
O	Chest Depth w/o Jacket	195 - 211	198	Pass
P	Foot Length	216 - 232	222	Pass
Q	Hip Breadth (w/ pelvic plugs)	313 - 323	317	Pass
R	Arm Length	249 - 259	250	Pass
S	Knee Joint to Seatback	477 - 493	483	Pass
V	Shoulder Width	341 - 357	351	Pass
W	Foot Width	78 - 94	82	Pass
Y	Chest Circumference w/ jacket	851 - 881	863	Pass
Z	Waist Circumference	761 - 791	782	Pass

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Peak Resultant Acceleration	g	115 to 137	130	Pass
Peak Longitudinal Acceleration	g	-15.0 to 15.0	-6.6	Pass
Unimodal	%	within 15% of peak	2	Pass

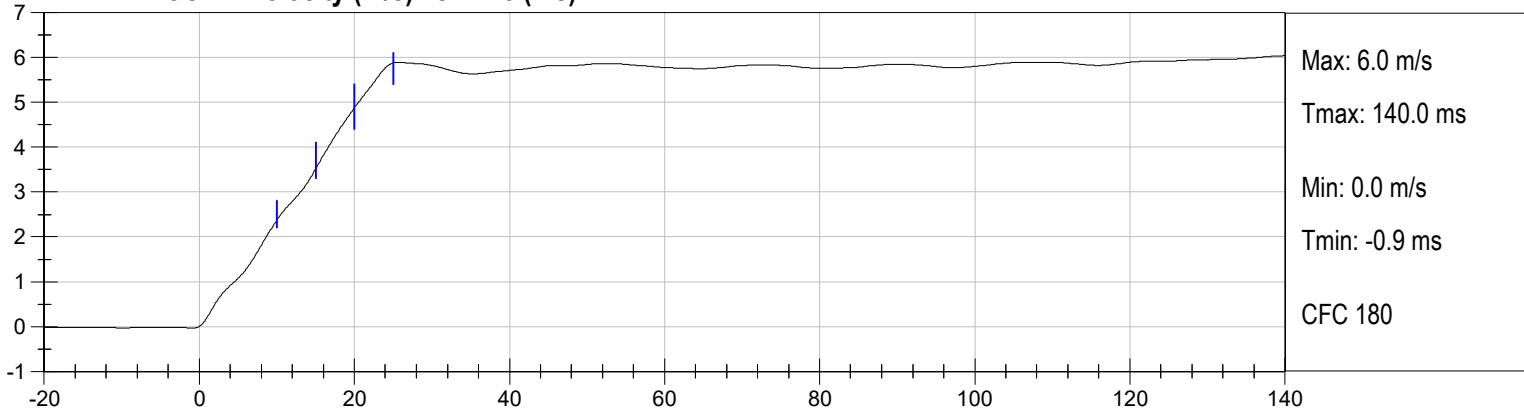
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
HEAD Y	Endevco	T30974	05/27/2025	11/26/2025
HEAD X	Endevco	T30975	05/27/2025	11/26/2025
HEAD Z	Endevco	T30976	05/27/2025	11/26/2025



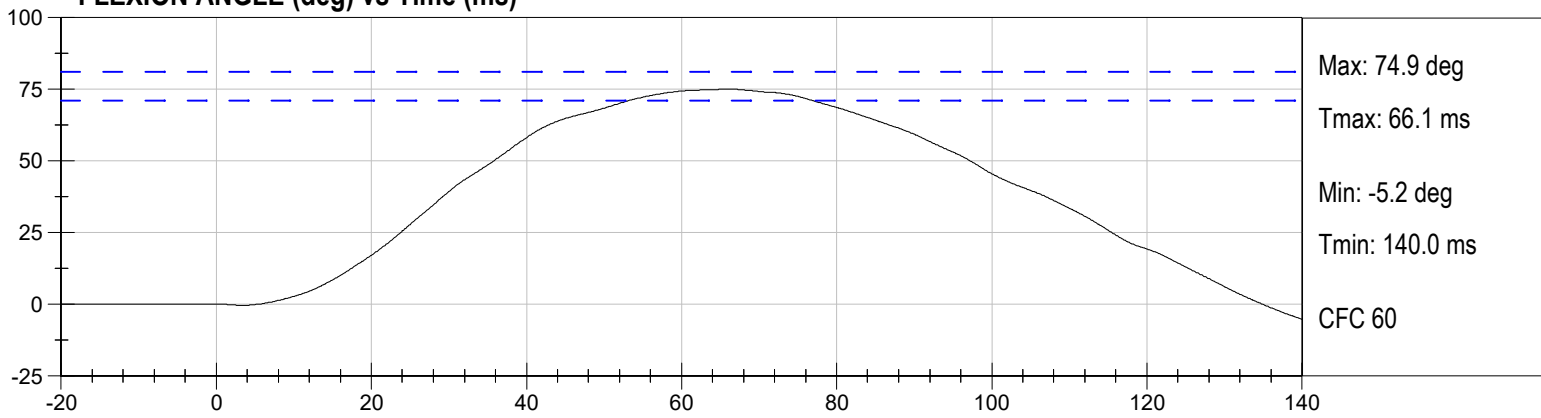
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	5.51 to 5.63	5.52	Pass
Pendulum Velocity at 10 ms	m/s	2.20 to 2.80	2.35	Pass
Pendulum Velocity at 15 ms	m/s	3.30 to 4.10	3.49	Pass
Pendulum Velocity at 20 ms	m/s	4.40 to 5.40	4.86	Pass
Pendulum Velocity at 25 ms	m/s	5.40 to 6.10	5.87	Pass
Peak Pendulum Velocity from 25 to 100 ms	m/s	5.50 to 6.20	5.89	Pass
Maximum "D" Plane Rotation	deg	71 to 81	75	Pass
Time of Maximum "D" Plane Rotation	ms	50 to 70	66	Pass
Maximum Moment About Occipital Condyle	Nm	-44 to -36	-38	Pass
Time of Moment Decay Time To 0 Nm	ms	102 to 126	121	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PEND. ACCEL.	Endevco	AH5P1	07/09/2025	1/8/2026
NECK FORCE Y	Denton	N1021FY	02/19/2025	2/19/2026
NECK MOMENT X	Denton	N1021MX	02/19/2025	2/19/2026
POT. A - FRONT	Servo	2732	07/16/2025	1/15/2026
POT. C - HEADFORM	Servo	2204	07/16/2025	1/15/2026

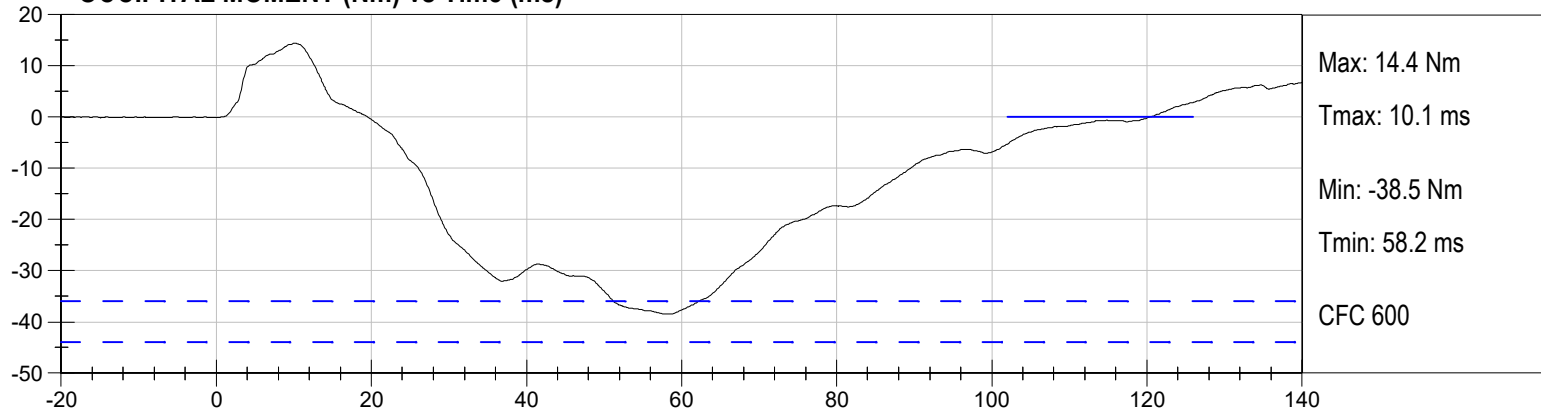
PEND. ACCEL. Velocity (m/s) vs Time (ms)



FLEXION ANGLE (deg) vs Time (ms)

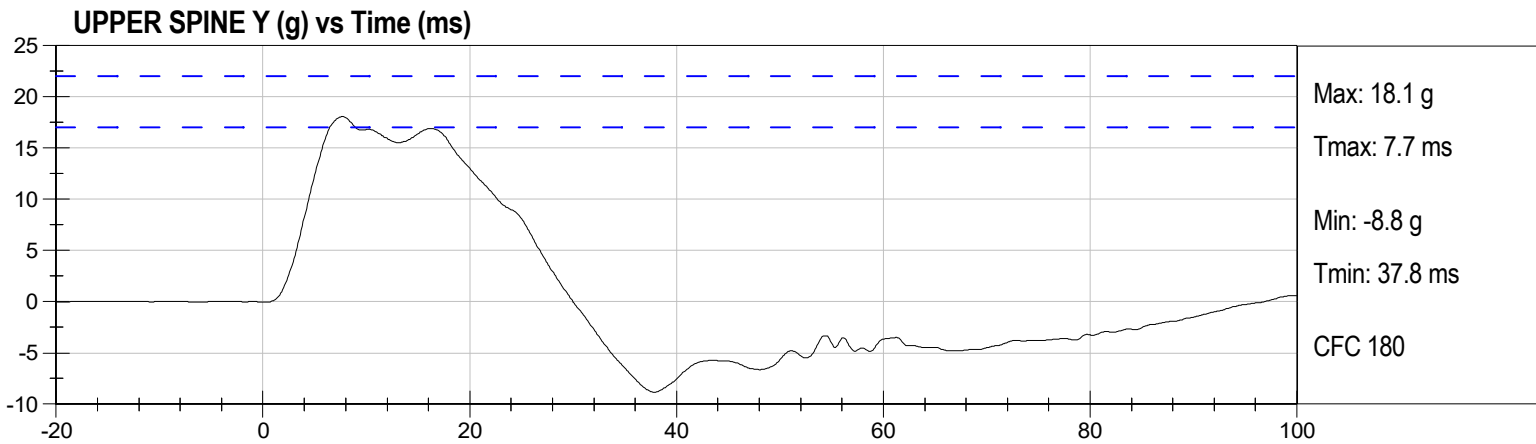
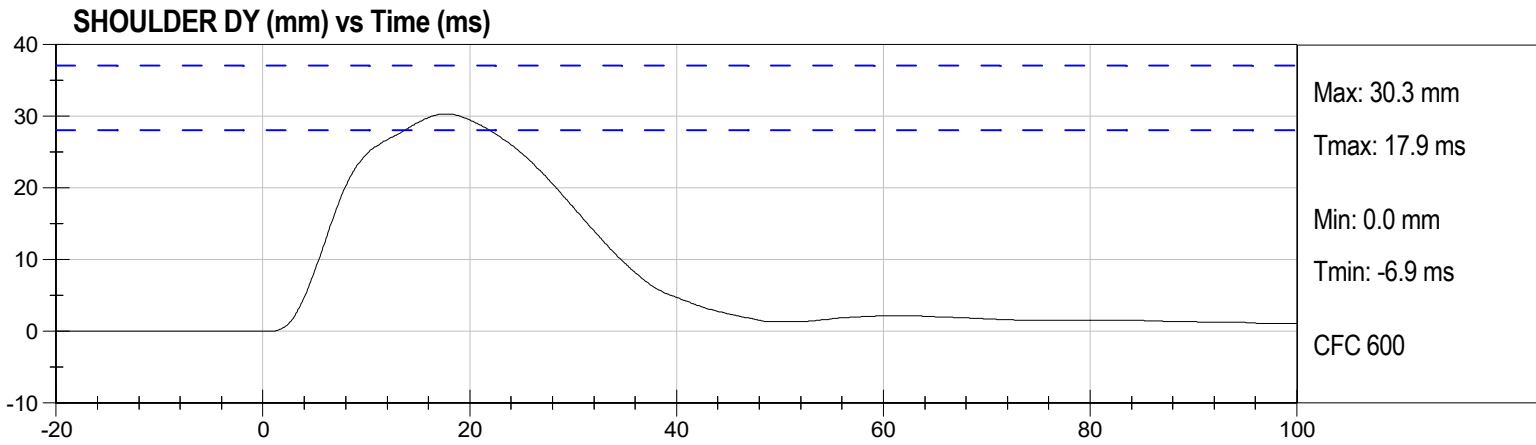
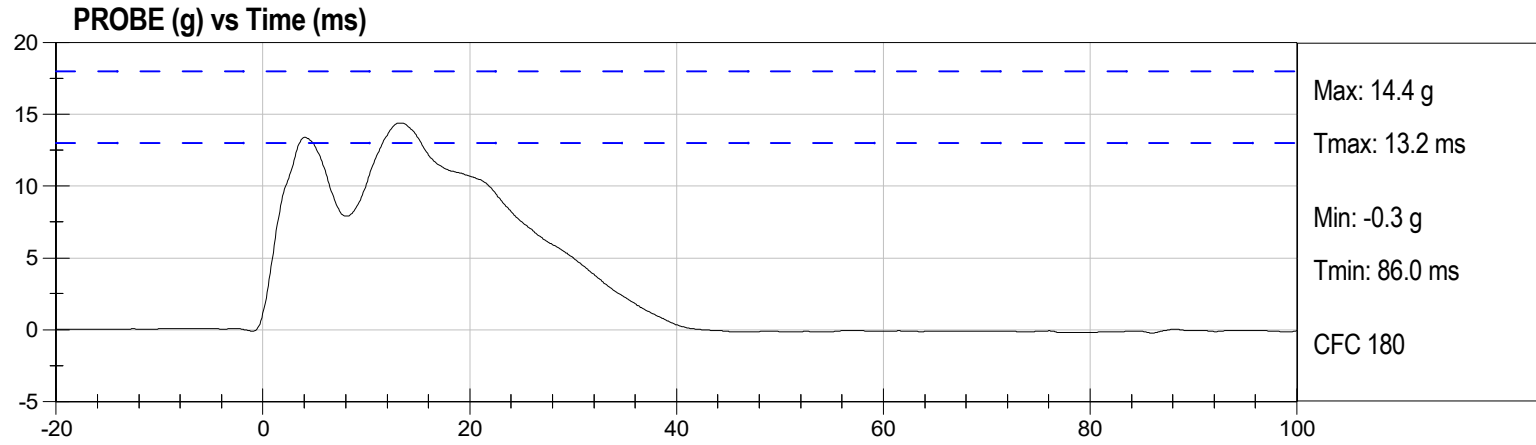


OCCIPITAL MOMENT (Nm) vs Time (ms)



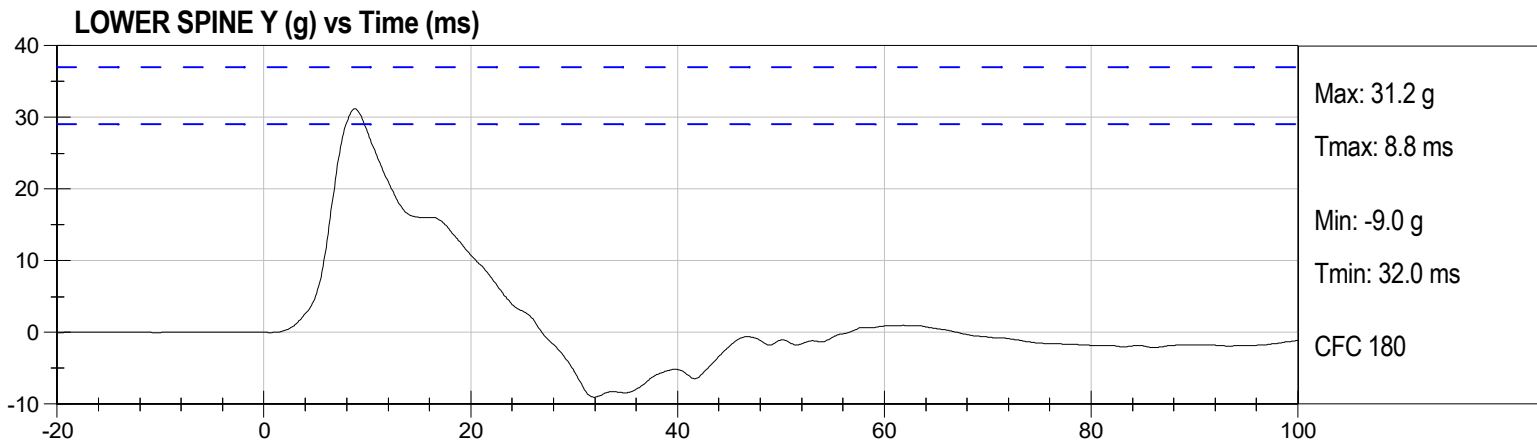
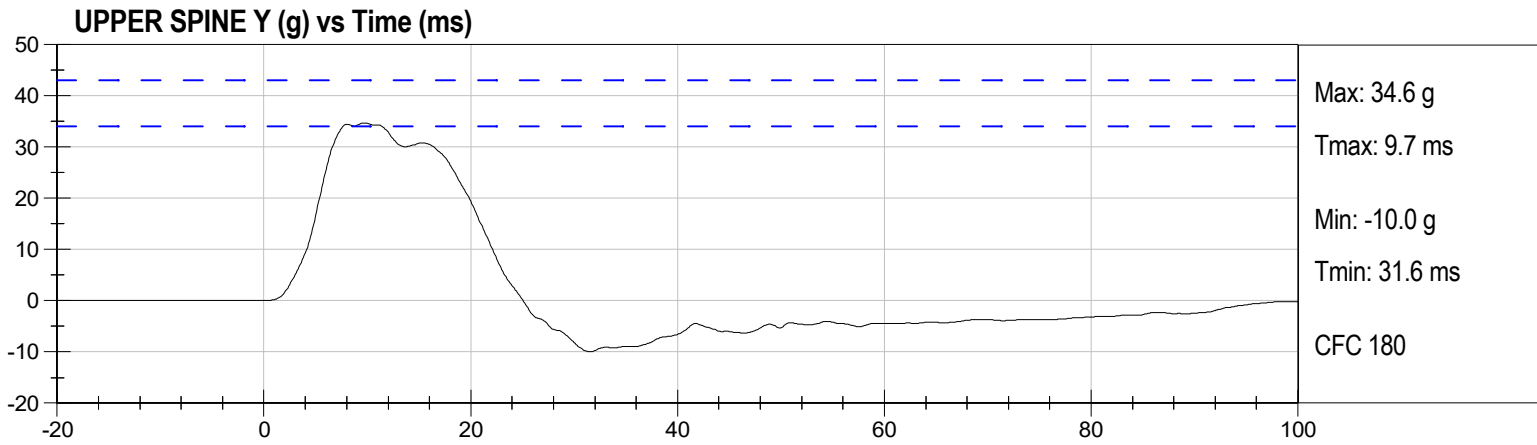
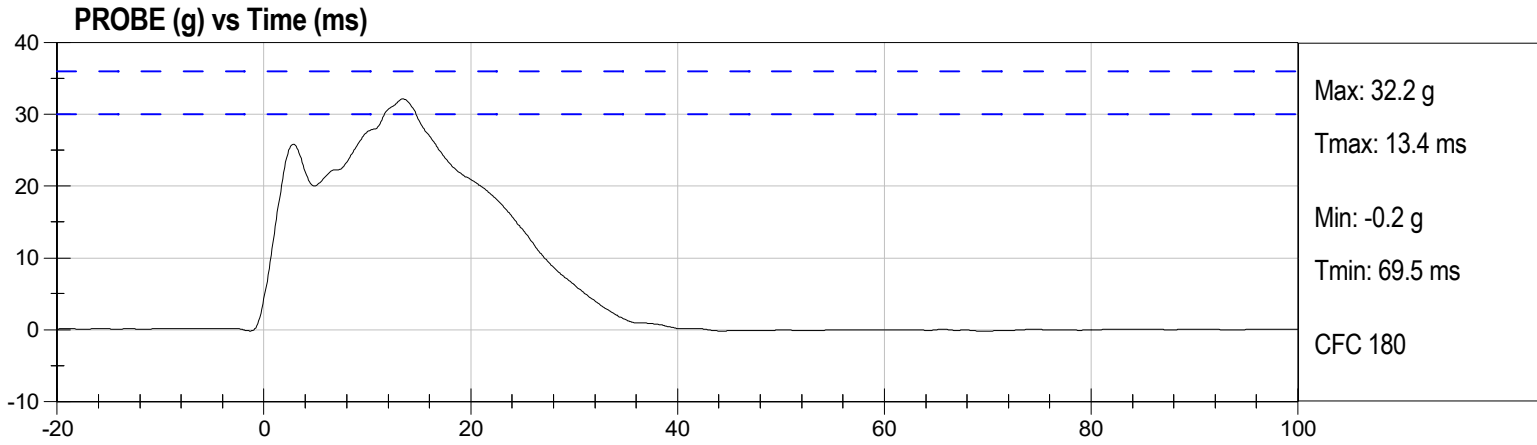
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.34	Pass
Peak Probe Acceleration	g	13 to 18	14	Pass
Shoulder Displacement	mm	28 to 37	30	Pass
Upper Spine (T1) Y Acceleration	g	17 to 22	18	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
UPPER SPINE Y	Endevco	P82319	05/27/2025	11/26/2025
SHOULDER DY	FTSS	G050	05/28/2025	11/27/2025

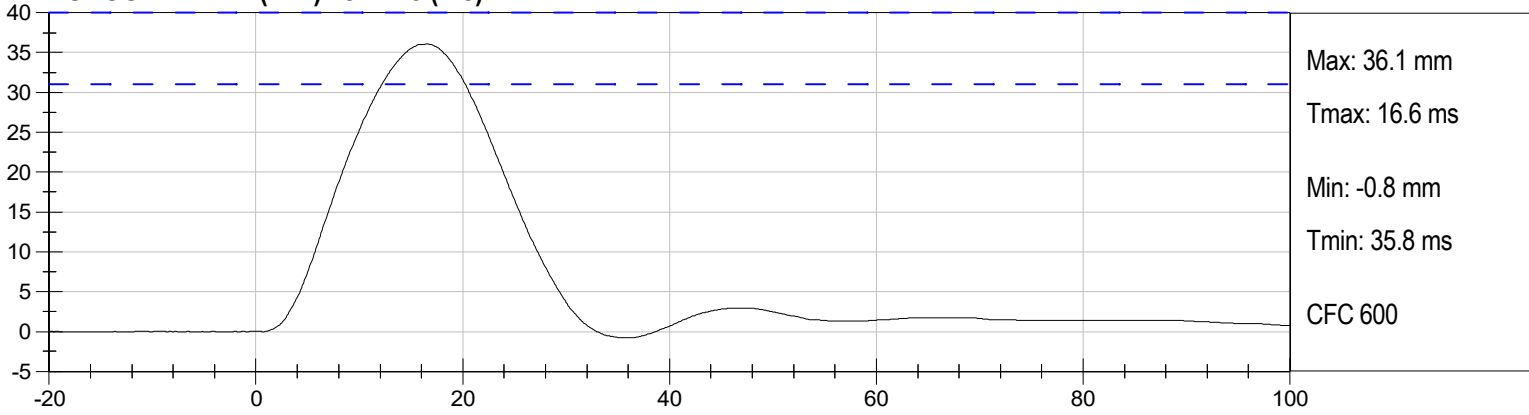


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.7	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	6.6 to 6.8	6.77	Pass
Peak Probe Acceleration after 5 ms	g	30 to 36	32	Pass
Upper Spine (T1) Y Acceleration	g	34 to 43	35	Pass
Lower Spine (T12) Y Acceleration	g	29 to 37	31	Pass
Shoulder Displacement	mm	31 to 40	36	Pass
Upper Thorax Rib Displacement	mm	25 to 32	29	Pass
Middle Thorax Rib Displacement	mm	30 to 36	34	Pass
Lower Thorax Rib Displacement	mm	32 to 38	37	Pass

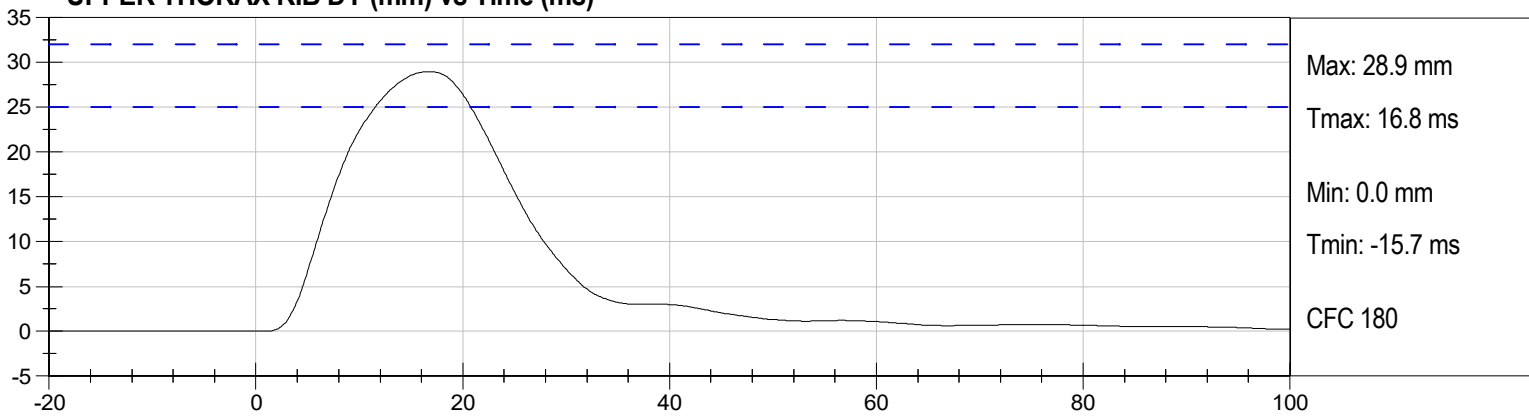
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
UPPER SPINE Y	Endevco	P82319	05/27/2025	11/26/2025
LOWER SPINE Y	Endevco	P96335	05/27/2025	11/26/2025
SHOULDER DY	FTSS	G050	05/28/2025	11/27/2025
UPPER THORAX RIB DY	FTSS	G033	05/28/2025	11/27/2025
MID THORAX RIB DY	Servo	G2403	05/28/2025	11/27/2025
LOWER THORAX RIB DY	FTSS	G1270	05/28/2025	11/27/2025



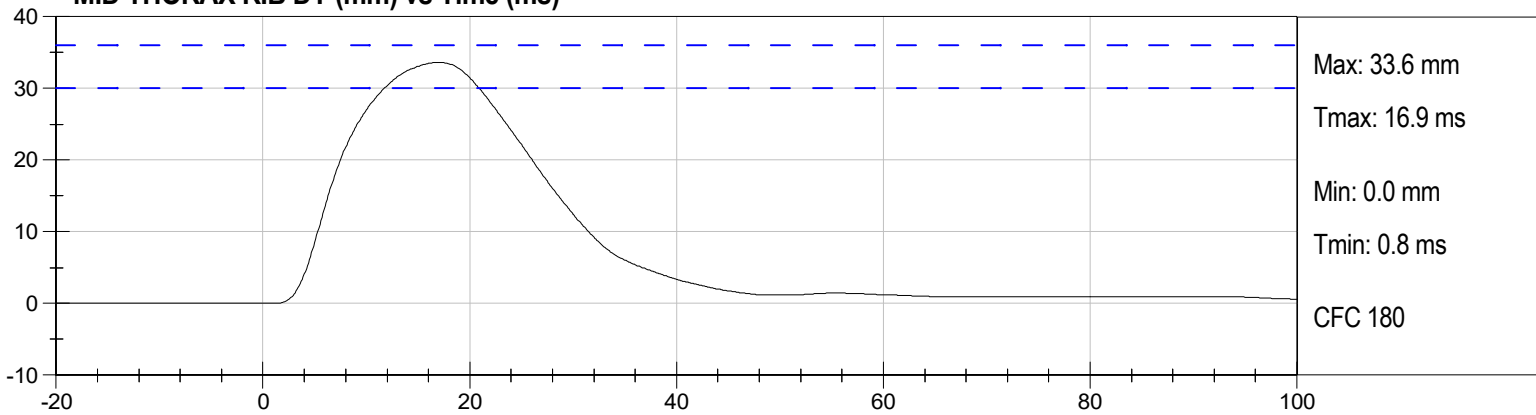
SHOULDER DY (mm) vs Time (ms)



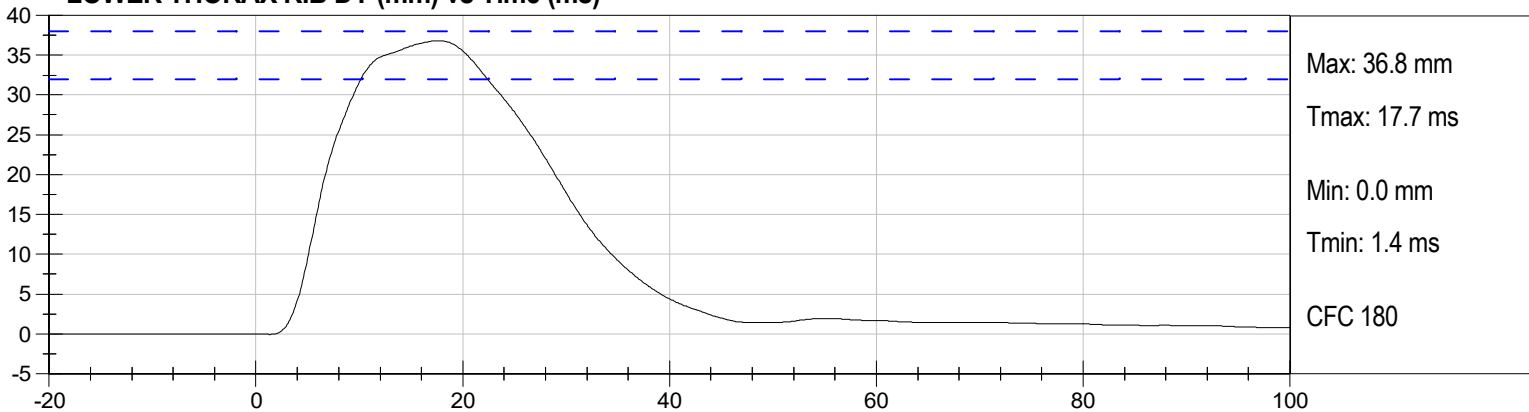
UPPER THORAX RIB DY (mm) vs Time (ms)



MID THORAX RIB DY (mm) vs Time (ms)



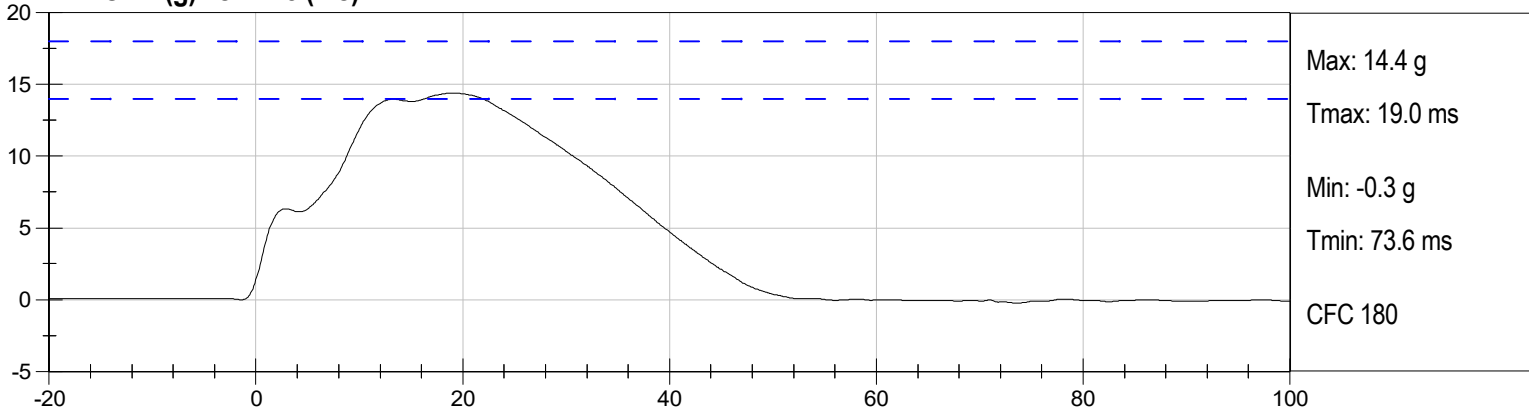
LOWER THORAX RIB DY (mm) vs Time (ms)



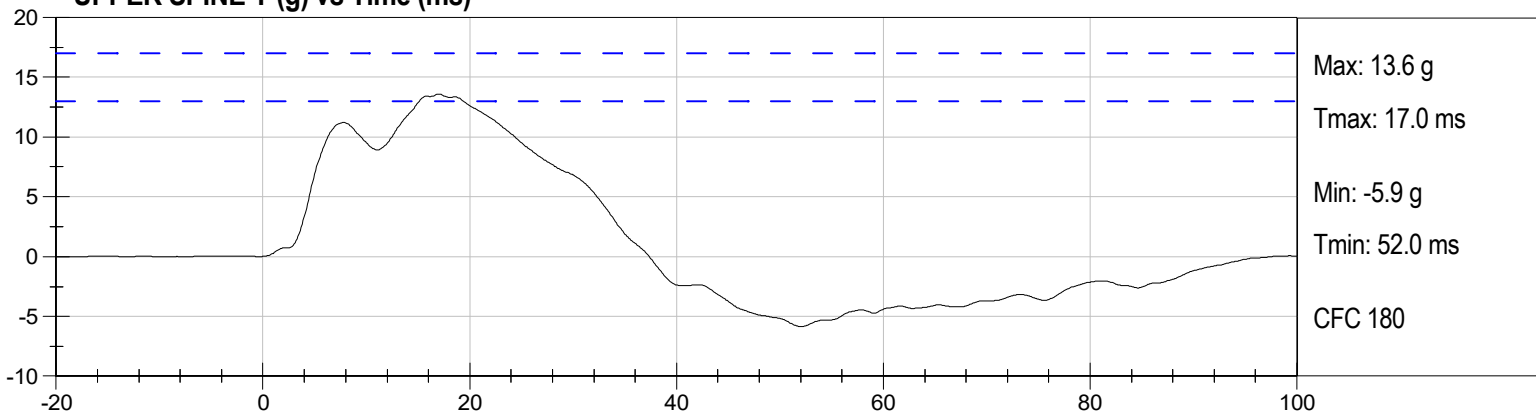
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.20	Pass
Peak Probe Acceleration	g	14 to 18	14	Pass
Upper Spine (T1) Y Acceleration	g	13 to 17	14	Pass
Lower Spine (T12) Y Acceleration	g	7 to 11	8	Pass
Upper Thorax Rib Displacement	mm	32 to 40	36	Pass
Middle Thorax Rib Displacement	mm	39 to 45	41	Pass
Lower Thorax Rib Displacement	mm	35 to 43	40	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
UPPER SPINE Y	Endevco	P82319	05/27/2025	11/26/2025
LOWER SPINE Y	Endevco	P96335	05/27/2025	11/26/2025
UPPER THORAX RIB DY	FTSS	G033	05/28/2025	11/27/2025
MID THORAX RIB DY	Servo	G2403	05/28/2025	11/27/2025
LOWER THORAX RIB DY	FTSS	G1270	05/28/2025	11/27/2025

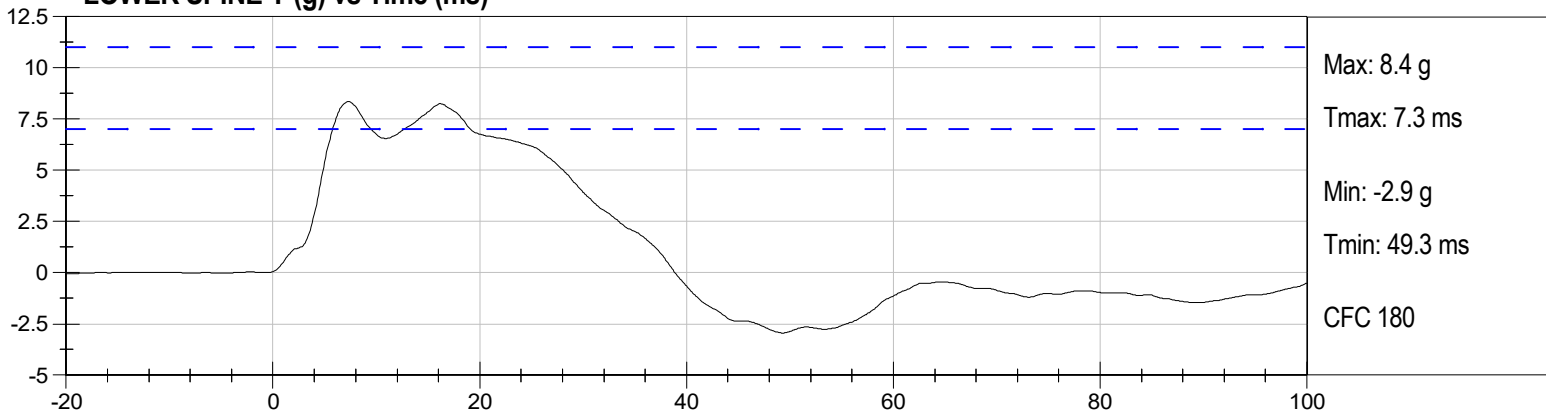
PROBE (g) vs Time (ms)



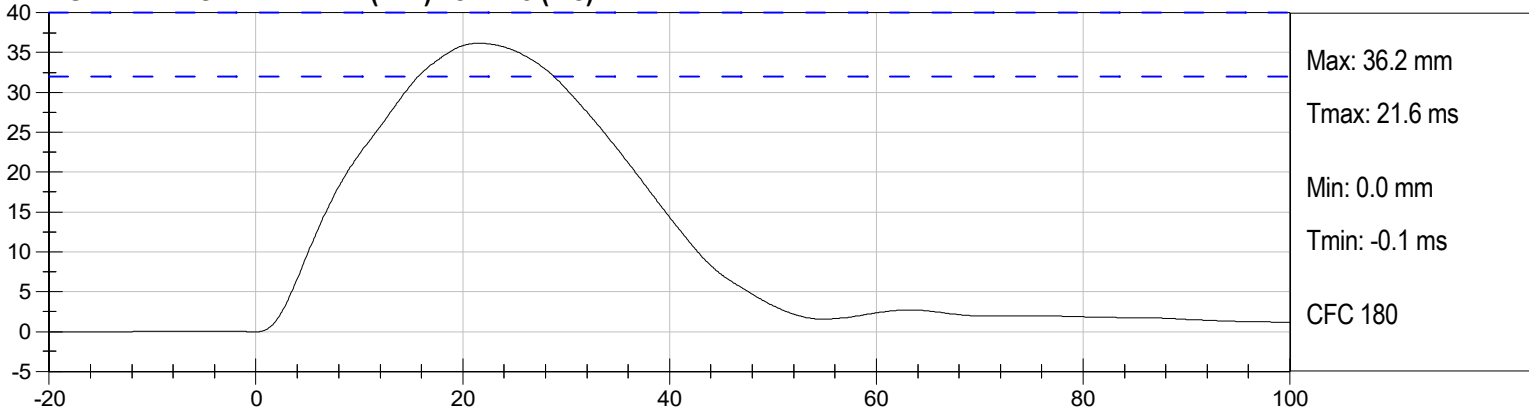
UPPER SPINE Y (g) vs Time (ms)



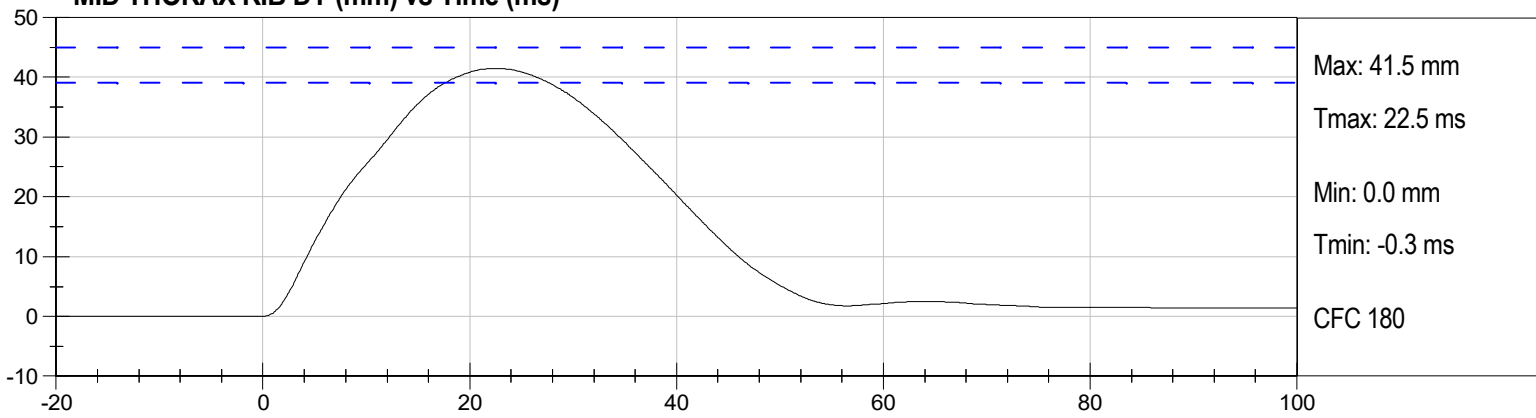
LOWER SPINE Y (g) vs Time (ms)



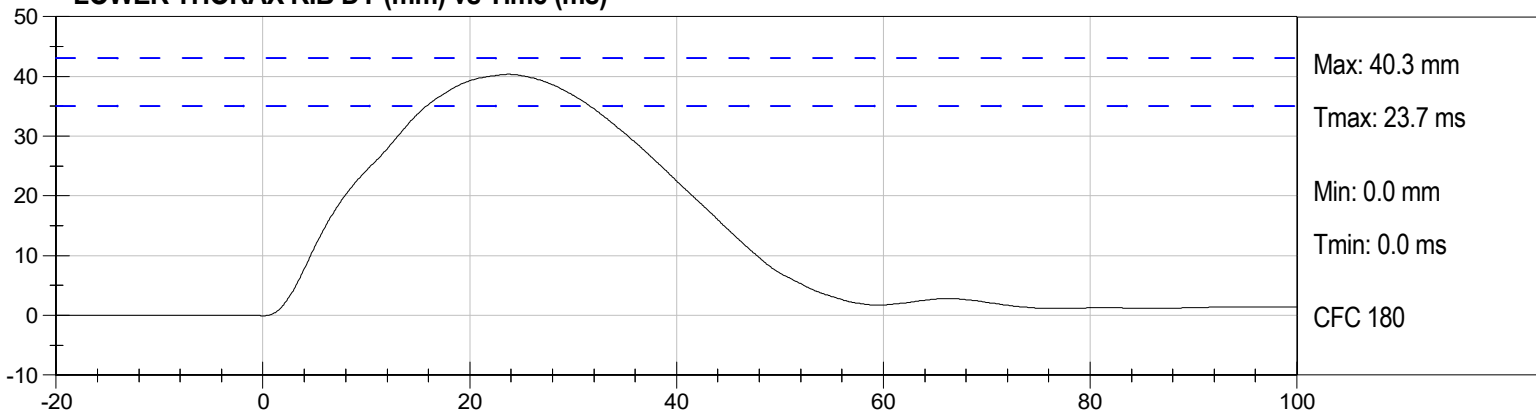
UPPER THORAX RIB DY (mm) vs Time (ms)



MID THORAX RIB DY (mm) vs Time (ms)



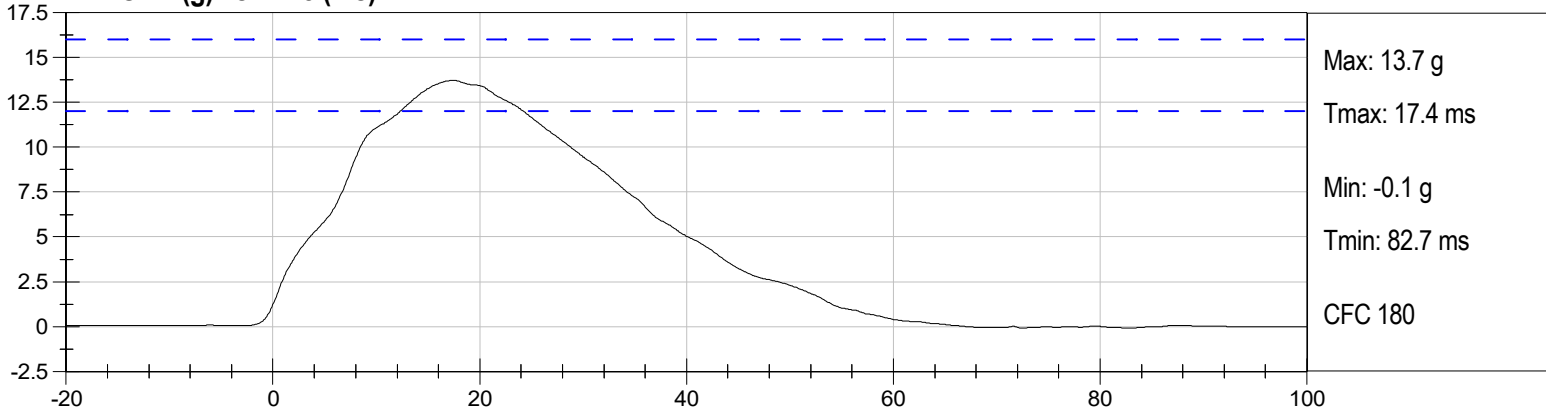
LOWER THORAX RIB DY (mm) vs Time (ms)



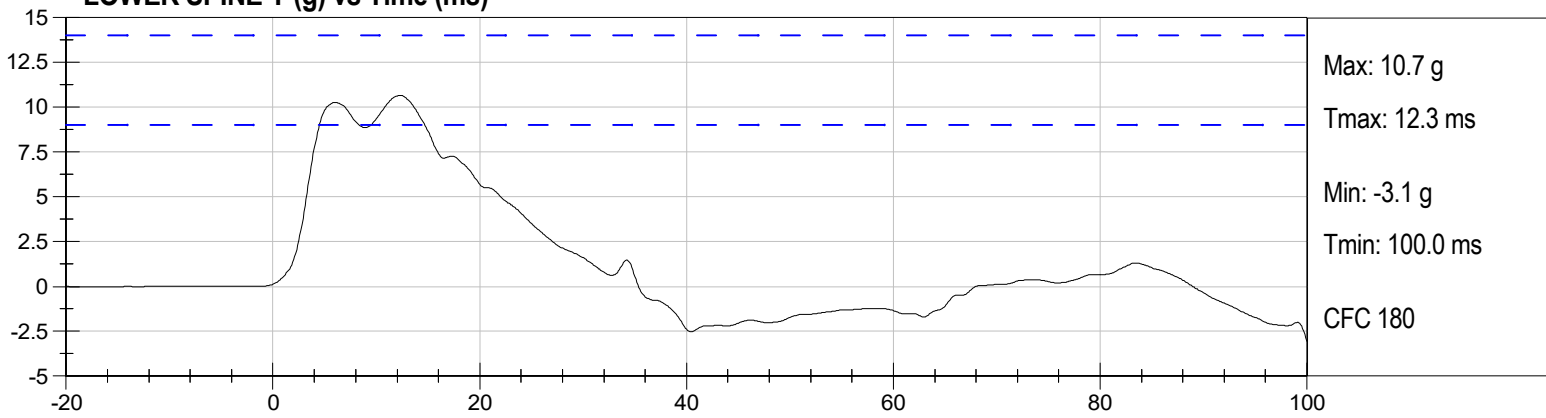
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.27	Pass
Peak Probe Acceleration	g	12 to 16	14	Pass
Lower Spine (T12) Y Acceleration	g	9 to 14	11	Pass
Upper Abdomen Rib Displacement	mm	36 to 47	45	Pass
Lower Abdomen Rib Displacement	mm	33 to 44	42	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
LOWER SPINE Y	Endevco	P96335	05/27/2025	11/26/2025
UPPER ABDOMINAL RIB DY	FTSS	G032	05/28/2025	11/27/2025
LOWER ABDOMINAL RIB DY	Medius	MJ5171	05/28/2025	11/27/2025

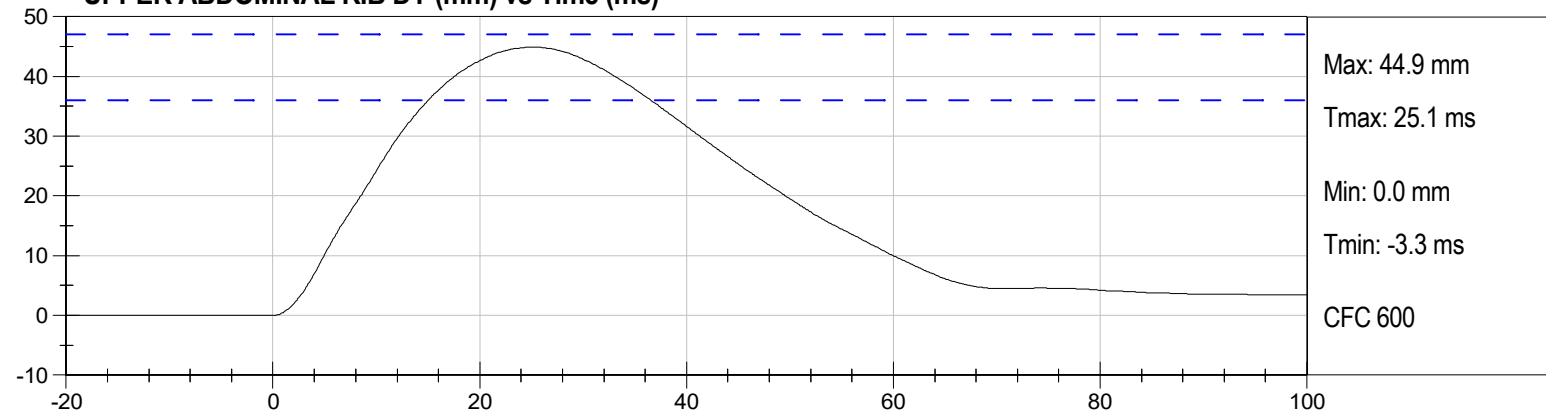
PROBE (g) vs Time (ms)



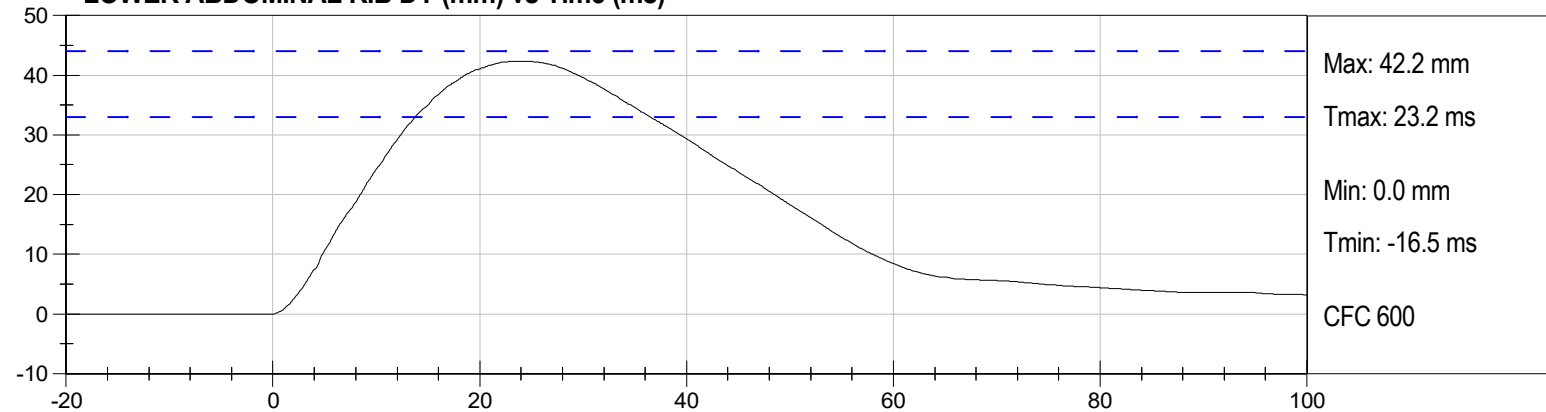
LOWER SPINE Y (g) vs Time (ms)



UPPER ABDOMINAL RIB DY (mm) vs Time (ms)



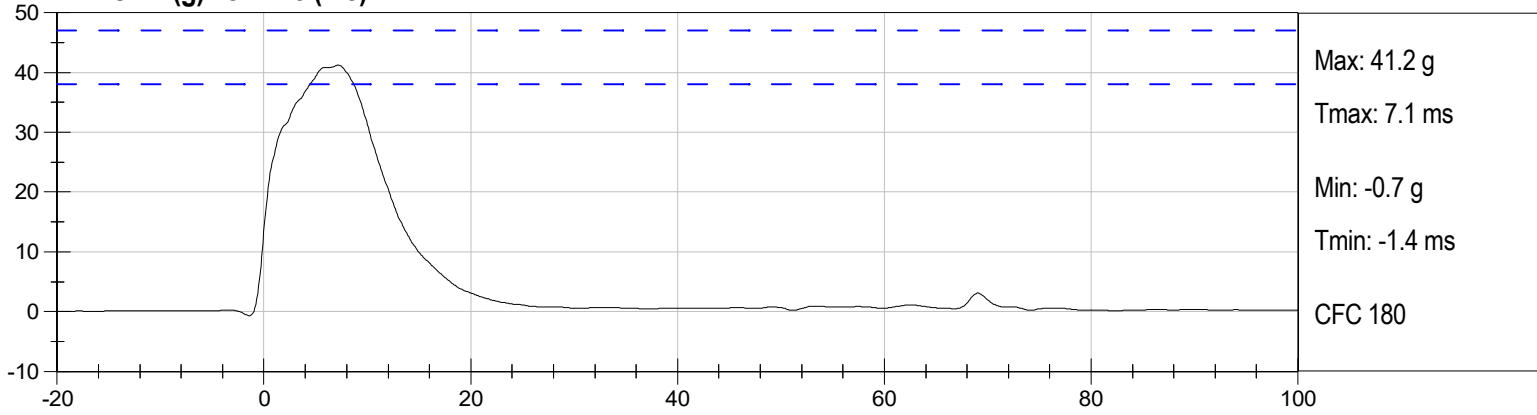
LOWER ABDOMINAL RIB DY (mm) vs Time (ms)



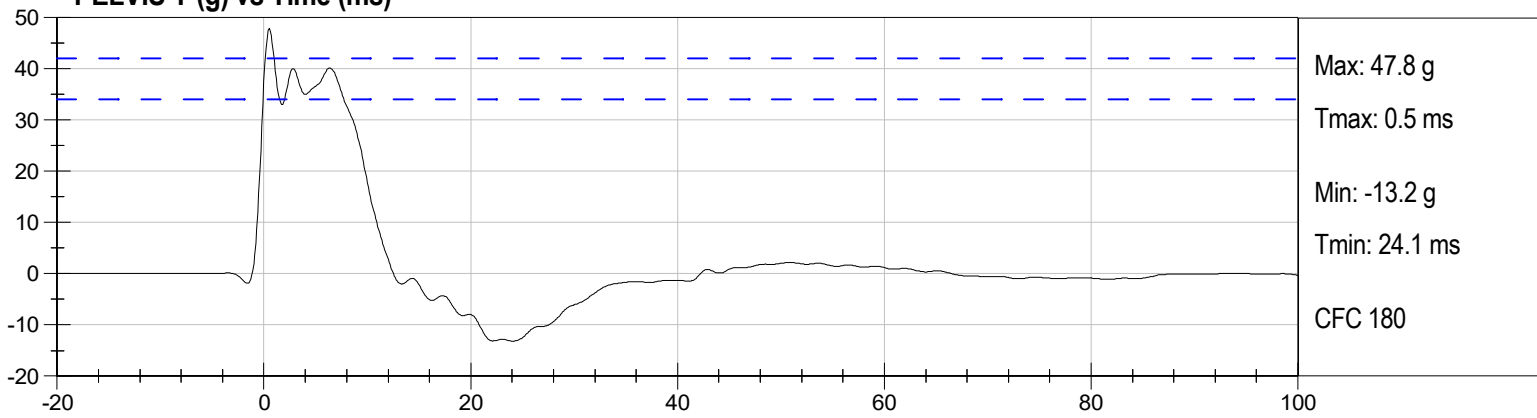
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.0	Pass
Laboratory Relative Humidity	%	10 to 70	37	Pass
Impact Velocity	m/s	6.6 to 6.8	6.60	Pass
Peak Probe Acceleration	g	38 to 47	41	Pass
Peak Pelvis Y Acceleration after 6 ms	g	34 to 42	40.1	Pass
Acetabulum Force	N	3600 to 4300	3958	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
PELVIS Y	Endevco	P82673	05/27/2025	11/26/2025
ACETABULUM FY	FTSS	ACG4285FY	05/28/2025	5/28/2026

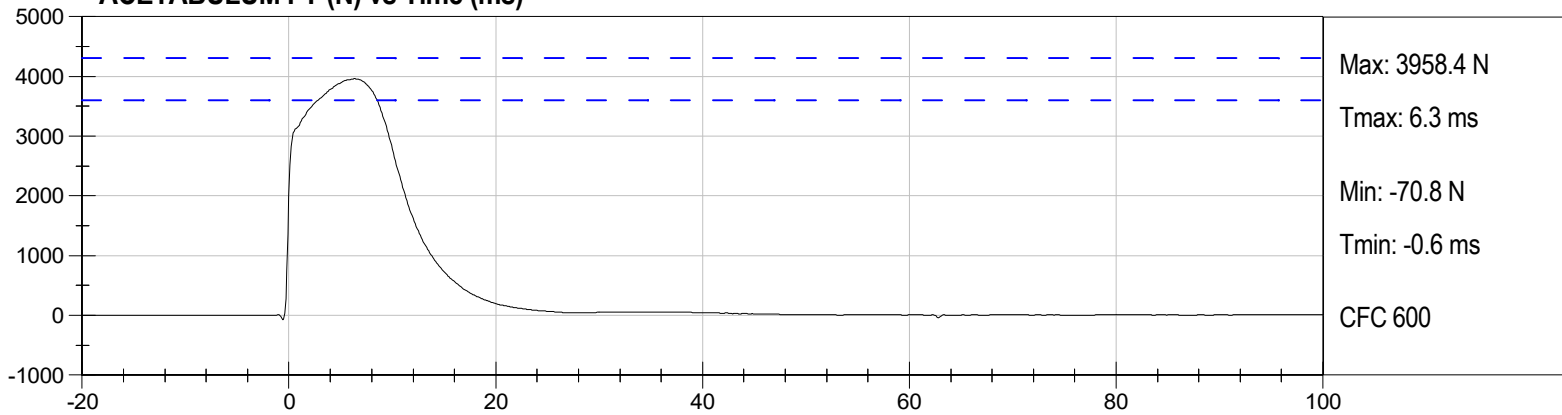
PROBE (g) vs Time (ms)



PELVIS Y (g) vs Time (ms)



ACETABULUM FY (N) vs Time (ms)





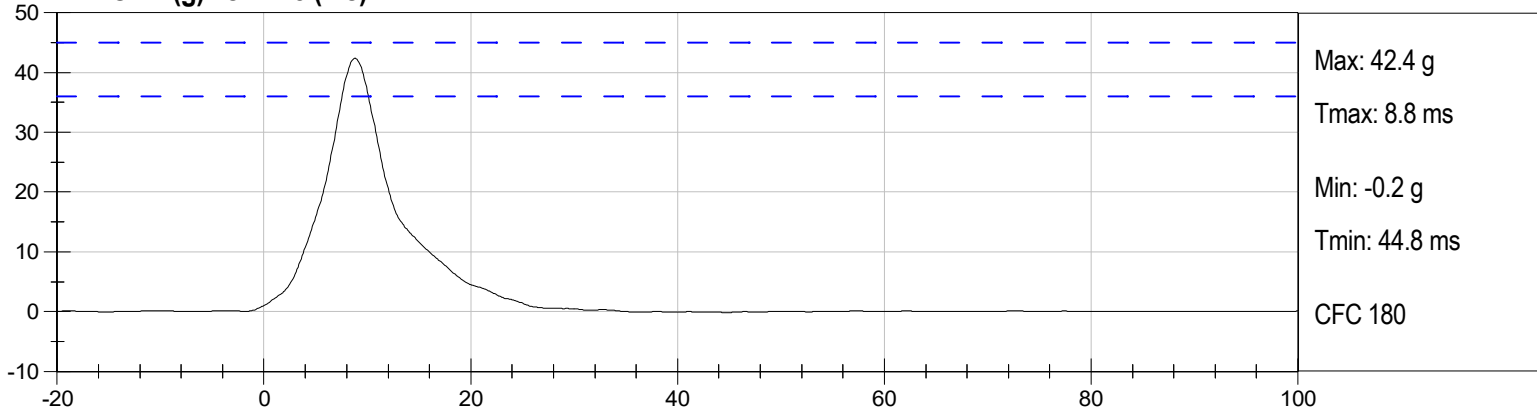
Iliac Impact Test
SID IIs
ATD Serial No: 306

Test Date: 10/21/2025
Test ID: D253028
Test Technician: Brian Lucas

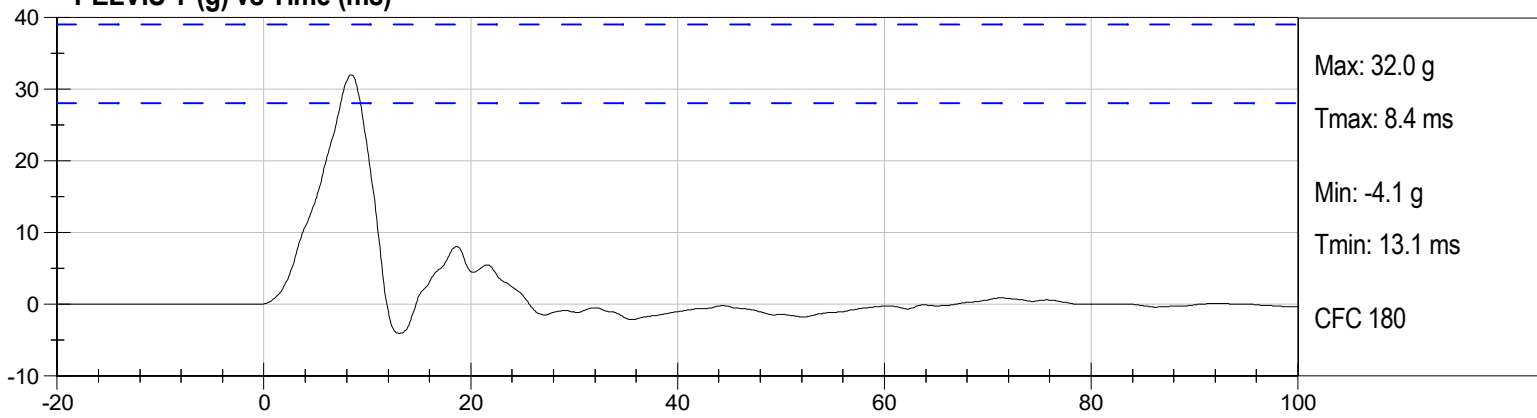
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	4.2 to 4.4	4.20	Pass
Peak Probe Acceleration	g	36 to 45	42	Pass
Peak Pelvis Y Acceleration	g	28 to 39	32	Pass
Iliac Force	N	4100 to 5100	4814	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	09/23/2025	3/25/2026
PELVIS Y	Endevco	P82673	05/27/2025	11/26/2025
ILIUM CREST FY	FTSS	IWG3023FY	05/28/2025	5/28/2026

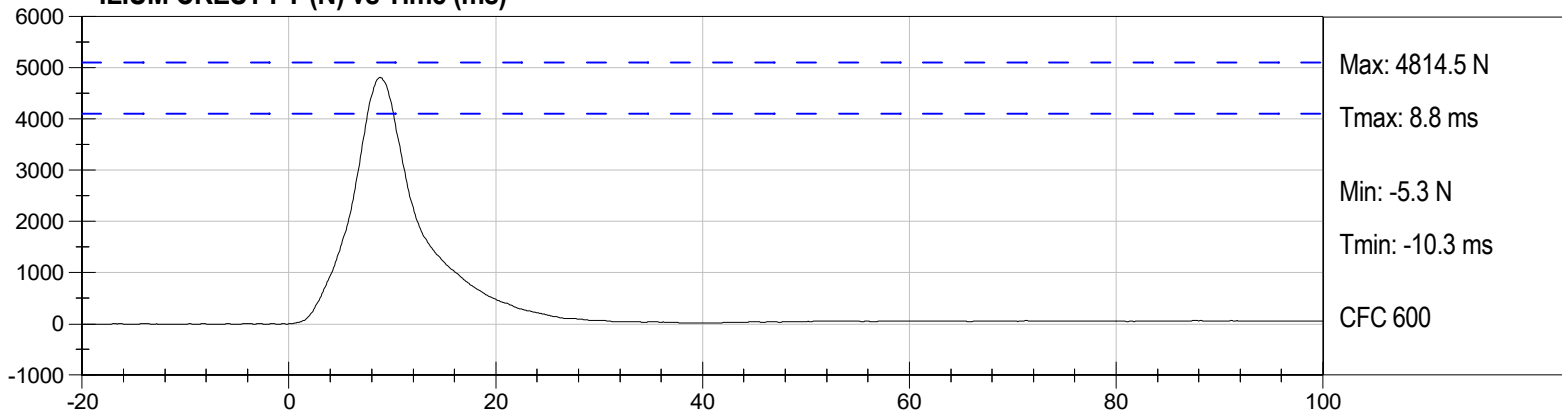
PROBE (g) vs Time (ms)



PELVIS Y (g) vs Time (ms)



ILIUM CREST FY (N) vs Time (ms)





SID-IIs Pelvis Plug Certification Test

Plug S/N 16328

Test Number 22894

Report Number 22951

Test Date 5/20/2022 11:29:46 AM

	Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	299	50	600
Force @ 1.5 mm (N)	1,202	850	1,400
Force @ 2.5 mm (N)	1,502	1,306	1,618
Force @ 3.0 mm (N)	1,560	1,361	1,673

Testing Machine STM-20 5965542

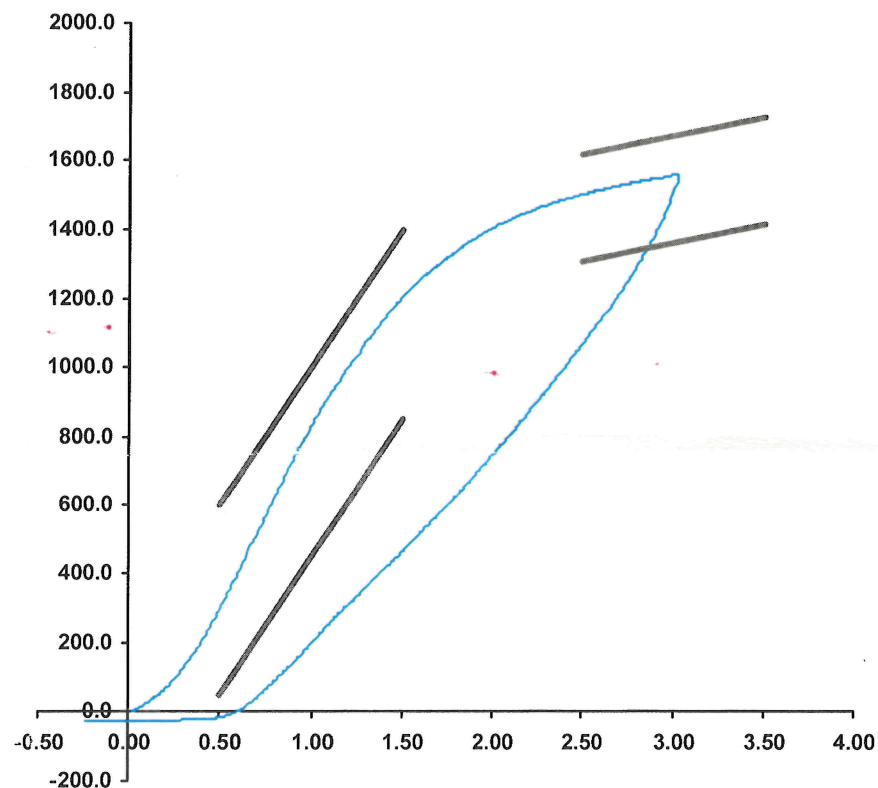
Load Cell S/N (FI360947), Units (LBS) 1000

Crosshead Speed (mm / min) or Rate 12.7

Extension or Position Measured by XHD_100 (XHD100)

Notes:

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107

20-May-22

SACO Research

By : DC

Date : 5/20/2022



SID-IIs Pelvis Plug Certification Test

Plug S/N 16445

Test Number 23014

Report Number 23072

Test Date 5/23/2022 11:49:17 AM

	Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	339	50	600
Force @ 1.5 mm (N)	1,169	850	1,400
Force @ 2.5 mm (N)	1,419	1,306	1,618
Force @ 3.0 mm (N)	1,471	1,361	1,673

Testing Machine STM-20 5965542

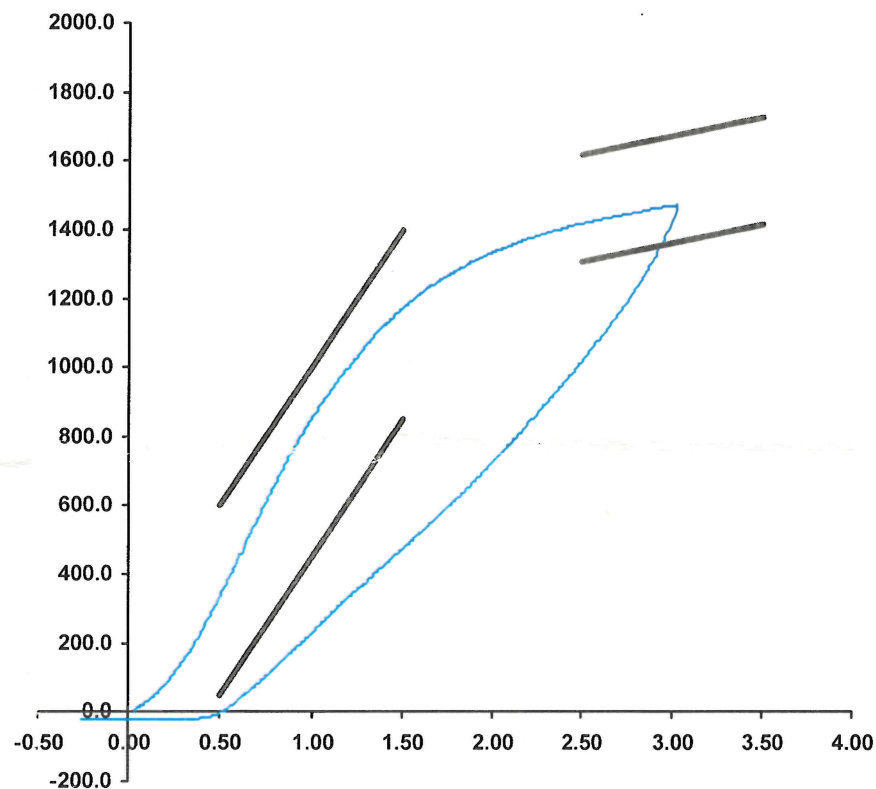
Load Cell S/N (FI360947), Units (LBS) 1000

Crosshead Speed (mm / min) or Rate 12.7

Extension or Position Measured by XHD_100 (XHD100)

Notes:

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107

23-May-22

SACO Research

By : _____ Date : _____

SACO Research 41735 Elm St, #401 Murrieta, CA 92562 Tel 310-694-2082 FAX

C-104

APPENDIX D
TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION

Table 1 – Dummy Instrumentation (ES-2re)

			ES-2re S/N F032		
			Serial Number	Manufacturer	Calibration Date
Head CG Accelerometers		X	P79568	Endevco	05/16/2025
		Y	P79569	Endevco	05/16/2025
		Z	T30941	Endevco	05/16/2025
		Xr	P86797	Endevco	05/16/2025
		Yr	P94957	Endevco	05/16/2025
		Zr	P97381	Endevco	05/16/2025
Thorax Rib Displacement Potentiometers	Upper	Y	G236	Honeywell	05/15/2025
	Middle	Y	G368	Honeywell	05/15/2025
	Lower	Y	G164	Honeywell	05/15/2025
Abdomen Load Cells	Forward	Y	ABG1532	Denton	01/20/2025
	Middle	Y	ABG1534	Denton	01/20/2025
	Rear	Y	ABG1535	Denton	01/20/2025
Lower Spine Accelerometers (T12)		X	P79574	Endevco	05/16/2025
		Y	T14094	Endevco	05/16/2025
		Z	P82603	Endevco	05/16/2025
Public Symphysis Load Cell		Y	PG461	Denton	01/20/2025

Table 2 – Dummy Instrumentation (SID-IIs)

			SID-IIs S/N 306			
			Serial Number	Manufacturer	Calibration Date	
Head CG Accelerometers			X	P79003	Endevco	05/27/2025
			Y	P79445	Endevco	05/27/2025
			Z	P79724	Endevco	05/27/2025
			Xr	P84999	Endevco	05/27/2025
			Yr	P85000	Endevco	05/27/2025
			Zr	P85001	Endevco	05/27/2025
Head Angular Rate Sensors			X	ARS7442	DTS	07/15/2025
			Y	ARS7475	DTS	07/15/2025
			Z	ARS7516	DTS	07/15/2025
Displacement Potentiometers	Thoracic Rib	Upper	Y	G033	FTSS	05/28/2025
		Middle	Y	G2403	Servo	05/28/2025
		Lower	Y	G1270	FTSS	05/28/2025
	Abdominal Rib	Upper	Y	G032	FTSS	05/28/2025
		Lower	Y	MJ5171	Medius	05/28/2025
Lower Spine Accelerometers (T12)			X	P96332	Endevco	05/27/2025
			Y	P96335	Endevco	05/27/2025
			Z	P96341	Endevco	05/27/2025
Acetabulum Load Cell			Y	ACG4285	FTSS	05/28/2025
Iliac Wing Load Cell			Y	IWG3023	FTSS	05/28/2025
Pelvis Plug (struck side)				16328	SACO	05/20/2022
Pelvis Plug (non-struck side)				16445	SACO	05/23/2022

Table 3 – Vehicle Instrumentation

			Serial Number	Manufacturer	Calibration Date
1	Vehicle Center of Gravity	X	T43758	Endevco	08/22/2025
	Vehicle Center of Gravity	Y	T43731	Endevco	07/15/2025
	Vehicle Center of Gravity	Z	A619006	MSI	09/12/2025
2	Right Sill at Front Seat	X	T43954	Endevco	10/08/2025
	Right Sill at Front Seat	Y	A416955	MSI	06/13/2025
	Right Sill at Front Seat	Z	A383118	MSI	06/25/2025
3	Right Sill at Rear Seat	X	T43471	Endevco	08/21/2025
	Right Sill at Rear Seat	Y	A416912	MSI	06/13/2025
	Right Sill at Rear Seat	Z	T45078	Endevco	08/21/2025
4	Left Sill at Front Door	Y	T47134	Endevco	10/02/2025
5	Left Sill at Rear Door	Y	T47091	Endevco	10/03/2025
6	Left A-Post Lower	Y	T43484	Endevco	10/14/2025
7	Left A-Post Middle	Y	T44005	Endevco	10/14/2025
8	Left B-Post Lower	Y	A391110	MSI	06/13/2025
9	Left B-Post Middle	Y	T42662	Endevco	06/12/2025
10	Front Seat Track	Y	T43997	Endevco	10/14/2025
11	Rear Seat Track or Structure	Y	T44162	Endevco	10/13/2025
12	Right Rear Occ. Compartment	Y	A618966	MSI	09/16/2025
13	Engine Block	X	T43499	Endevco	09/05/2025
	Engine Block	Y	A360976	MSI	09/05/2025
14	Rear Floorpan Above Axle	X	T42767	Endevco	06/19/2025
	Rear Floorpan Above Axle	Y	A618991	MSI	09/12/2025
	Rear Floorpan Above Axle	Z	A618994	MSI	09/15/2025

Table 4 – MDB Instrumentation

		Serial Number	Manufacturer	Calibration Date
MDB Center of Gravity	X	PCB1183D	PCB	09/22/2025
MDB Center of Gravity	Y	PCB1917D	PCB	09/22/2025
MDB Center of Gravity	Z	PCB1822D	PCB	09/22/2025
Left Frame at Rear Axle Centerline	X	PCB1438D	PCB	09/22/2025
Left Frame at Rear Axle Centerline	Y	PCB1653D	PCB	09/22/2025