

# **SAFETY COMPLIANCE TESTING FOR FMVSS No. 218 MOTORCYCLE HELMETS**

Brand: BELL  
Model: SCOUT AIR  
Size: S (55-56 cm)

Prepared By

**ACT Lab LLC**  
**3280 East 59th Street,**  
**Long Beach CA 90805**  
**[www.act-lab.com](http://www.act-lab.com)**



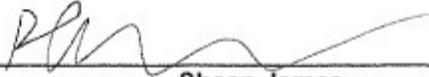
**23 May 2025**

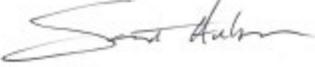
**Final Report 218-2501495-TEST**

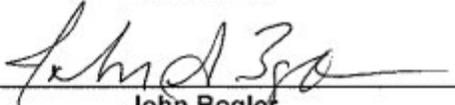
Prepared For

**U.S. Department of Transportation**  
National Highway Traffic Safety Administration  
Office of Vehicle Safety Compliance (NEF-220)  
1200 New Jersey Ave., S.E.  
Washington, DC 20590

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Technician:   
Shaan James

Project Manager:   
Scott Huber

Approved By:   
John Bogler

Approval Date: 05 June 2025

**FINAL REPORT ACCEPTANCE BY OVSC**

Accepted By: \_\_\_\_\_

Acceptance Date: \_\_\_\_\_

**TECHNICAL REPORT STANDARD TITLE PAGE**

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<b>4. Title and Sub-Title</b> FINAL REPORT OF FMVSS NO. 218 COMPLIANCE TESTING OF BELL, MODEL SCOUT AIR, SIZE S (55-56 cm) MOTORCYCLE HELMET				<b>5. Report Date</b> 05 June 2025	
				<b>6. Performing Organization Code</b> ACT	
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<b>9. Performing Organization Name and Address</b> ACT Lab LLC 3280 East 59th Street, Long Beach CA 90805				<b>10. Work Unit No.</b>	
				<b>11. Contract or Grant No.</b> 693JJ918D000022	
<b>12. Sponsoring Agency Name and Address</b> U.S. Department of Transportation National Highway Traffic Safety Administration Office of Vehicle Safety Compliance (NEF-220) 1200 New Jersey Avenue, S.E. Washington, D.C. 20590				<b>13. Type of Report and Period Covered</b> Final Test Report	
				<b>14. Sponsoring Agency Code</b> NEF-220	
<b>16. Abstract</b> Compliance tests were conducted on the subject model motorcycle helmet in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-218-07. Test failures identified were as follows: S5.1 Impact Attenuation. Accelerations in excess of 200g exceeded 2.0 ms on the low temperature sample. S5.2 Penetration. The striker contacted the surface of the test headform on the low temperature and high temperature samples. S5.6.1 Labeling. The discrete size label does not appear to be permanent.					
<b>17. Key Words</b> Helmet Compliance Testing Safety Engineering FMVSS No. 218			<b>18. Distribution Statement</b> Copies of this report are available from: National Highway Traffic Safety Administration Technical Information Services Division (NPO-120) 1200 New Jersey Avenue, S.E. Washington, D.C. 20590		
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SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/FMVSS No.218

Technician: Rashaan James

Test Date: 23 May 2025

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# PURPOSE OF COMPLIANCE TEST

## 1. PURPOSE OF COMPLIANCE TEST

This testing was conducted as part of the Department of Transportation, National Highway Traffic Safety Administration's Federal Motor Vehicle Safety Standard (FMVSS) No. 218, "Motorcycle Helmets"<sup>1</sup> Compliance Program. The purpose of the test was to determine if the production helmets supplied by the Office of Vehicle Safety Compliance satisfy the requirements of TP-218-07<sup>2</sup>, as governed by the contract.

## 2. TEST PROCEDURE

The ACT Lab Helmet Testing TP 304 – Motorcycle Helmets<sup>3</sup> submitted to the Office of Vehicle Safety Compliance, National Highway Traffic Safety Administration, contains the specific procedures used to conduct this test. The ACT Lab Helmet Testing TP 304 – Motorcycle Helmets as modified by Project-Specific notations is in accordance with TP-218-07.

The test procedure shall not be in conflict with any portion of FMVSS No. 218 nor amendments in effect as noted in the applicable contract.

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<sup>1</sup> NHTSA, FMVSS No. 218, Motorcycle Helmets, 49 CFR Chapter V Section 571.218, August 20, 1973 as last amended FR 28132 Vol. 76, No. 93, May 13, 2011.

<sup>2</sup> NHTSA, TP-218-07, Laboratory Test Procedure for FMVSS 218, Motorcycle Helmets, 13 May 2011.

<sup>3</sup> ACT Lab Helmet Testing TP 304, Version 2 – Motorcycle Helmets in accordance with FMVSS No. 218, 05 September 2023.

## HELMET DATA

HELMET BRAND NAME: BELL

HELMET MODEL DESIGNATION: SCOUT AIR

HELMET MANUFACTURER: BELL HELMETS

HELMET SIZE: S (55-56 cm)

HELMET COVERAGE: Partial: \_\_\_\_\_ Full: X Complete: \_\_\_\_\_

HELMET POSITIONING INDEX: 50 mm

SHELL MATERIAL: Composite Material

LINER MATERIAL: EPS

BUCKLE DESCRIPTION: Double D-Rings

HELMET	A Ambient	B Low Temp	C High Temp	D Water Immersed	E Spare
SHELL COLOR/PATTERN	Black	Black	Black	Black	Black
WEIGHT (grams)	710	720	716	741	710
MONTH & YEAR OF MANUFACTURE	11/22	11/22	11/22	11/22	11/22

### COMMENTS:

1. All helmets were received in undamaged condition and were appropriate for testing.
2. Weights listed above for helmets A-D are as tested with removable peak attached.
3. Weight for helmet E is complete with all components in place.
4. NHTSA provided the HPI based on information obtained from the manufacturer.

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Technician: Rashaan James

Test Date: 23 May 2025

## SUMMARY OF TEST RESULTS

INDICATE Pass or Fail

HELMET	A	B	C	D
TEST	AMBIENT	LOW TEMP	HIGH TEMP	WATER IMMERSED
IMPACT	Pass	Fail	Pass	Pass
PENETRATION	Pass	Fail	Fail	Pass
RETENTION	Pass	Pass	Pass	Pass

INDICATE Pass or Fail

TEST	PASS/FAIL
PERIPHERAL VISION	Pass
LABELING	Fail

### COMMENTS:

1. S5.1 Impact Attenuation. (b) Accelerations in excess of 200g exceeded a cumulative duration of 2.0 ms:  
Low temperature sample, right location, flat anvil, 2<sup>nd</sup> impact, 2.2ms.
2. S5.2 Penetration. The striker contacted the surface of the test headform at the rear right location on the low temperature and high temperature samples.
3. S5.6.1 Labeling. The discrete size label does not appear to be permanent.

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## SELECTION OF APPROPRIATE HEADFORM

Paragraph S6.1 - If the helmet size designation falls into more than one of three size ranges, it shall be tested on each appropriate headform.

HELMET SIZE DESIGNATION	HEADFORM SIZE
Less than or equal to 6-3/4 (European Size 54)	SMALL
Greater than 6-3/4, but less than or equal to 7-1/2 (European Size 60)	MEDIUM
Greater than 7-1/2 (European 60)	LARGE

**COMMENTS:**

The manufacturer marked the helmet with its corresponding discrete size: S (55-56 cm), Headform Size: DOT MEDIUM.

**CONDITIONING FOR TESTING — Paragraph S6.4 —** The protective headgear shall be conditioned for not less than 4 hours and no more than 24 hours, in the specified environmental condition shown below, prior to test.

Ambient Conditions	16°C to 26°C (61°F to 79°F); 30% to 70% Relative Humidity
Low Temperature	-15°C to -5°C (5°F to 23°F)
High Temperature	45°C to 55°C (113°F to 131°F)
Water Immersion	16°C to 26°C (61°F to 79°F)

The maximum time during which the protective headgear may be out of the conditioning environment shall not exceed 4 minutes. It must then be returned to the conditioned environment for a minimum of 3 minutes for each minute or portion of a minute in excess of 4 minutes out of the conditioning environment or 12 hours, whichever is less, prior to resumption of testing.

AVERAGE LAB TEMPERATURE : 19.9 °C ; AVERAGE LAB HUMIDITY : 59.6 %

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## IMPACT ATTENUATION

SYSTEMS CHECK	TRIAL DROP	DROP (meters)	VEL. (m/s)	PEAK (g)	DWELL TIME (ms)		TEST RECORD	HEADFORM POSITION
					150 g	200 g		
PRETEST	1	1.3	4.85	404.0	2.3	2.0	Pre 1	Crown
	2	1.3	4.83	398.0	2.3	2.0	Pre 2	Crown
	3	1.3	4.86	408.0	2.3	2.0	Pre 3	Crown
PRETEST AVERAGE		XXXX	XXXX	403.3	XXX	XXX	XXXX	XXXX
POSTTEST	1	1.3	4.83	405.0	2.3	2.0	Post 1	Crown
	2	1.3	4.83	406.0	2.3	2.0	Post 2	Crown
	3	1.3	4.81	406.0	2.3	2.0	Post 3	Crown
POSTTEST AVERAGE		XXXX	XXXX	405.7	XXX	XXX	XXXX	XXXX
DIFFERENCE BETWEEN PRE-TEST AND POST-TEST AVERAGES				-2.3	DIFFERENCE NOT TO EXCEED 15 g			

Helmet Designation	Helmet Condition	Impact Location	Front		Left		Right		Rear	
			1	2	1	2	1	2	1	2
A	Ambient	Impact Number	1	2	3	4	5	6	7	8
		Anvil	Hemi		Hemi		Flat		Flat	
		Test Record No.	1	2	3	4	5	6	7	8
		Peak g	89	128	109	154	193	227	166	208
		ms @ 150	0.0	0.0	0.0	0.6	2.6	3.0	2.0	3.0
		ms @ 200	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.7
B	Low Temperature	Velocity m/s	5.30	5.24	5.24	5.22	6.06	6.06	6.07	6.08
		Anvil	Hemi		Hemi		Flat		Flat	
		Test Record No.	9	10	11	12	13	14	15	16
		Peak g	102	124	114	162	209	250	162	210
		ms @ 150	0.0	0.0	0.0	1.7	2.8	2.9	1.3	3.0
		ms @ 200	0.0	0.0	0.0	0.0	1.0	2.2	0.0	1.2
C	High Temperature	Velocity m/s	5.25	5.25	5.20	5.25	6.08	6.07	6.03	6.08
		Anvil	Hemi		Hemi		Flat		Flat	
		Test Record No.	17	18	19	20	21	22	23	24
		Peak g	95	118	107	191	190	222	149	188
		ms @ 150	0.0	0.0	0.0	1.6	2.5	2.9	0.0	2.7
		ms @ 200	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0
D	Water Immersed	Velocity m/s	5.22	5.24	5.23	5.25	6.05	6.06	6.08	6.07
		Anvil	Hemi		Hemi		Flat		Flat	
		Test Record No.	25	26	27	28	29	30	31	32
		Peak g	95	104	104	177	163	199	162	202
		ms @ 150	0.0	0.0	0.0	1.6	0.8	2.9	1.8	2.9
		ms @ 200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4

COMMENTS: 1. The actual drop heights were: flat anvil 200 cm, hemi anvil 150 cm.  
 2. Values reported in the above tables are rounded.

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## PENETRATION

Paragraph S5.2 and S7.2

**WEIGHT OF STRIKER:** 2.95 to 3.06 kg (6 pounds, 8 ounces to 6 pounds, 12 ounces)

**POINT OF STRIKER:** Radius =  $0.5 \pm 0.1$  mm ( $0.02 \pm 0.004$  in.), included angle of  $60^\circ \pm 0.5^\circ$ , hardness minimum of 60 Rockwell "C" Scale and a cone height of not less than  $3.8 \pm 0.038$  cm ( $1.5 \pm 0.015$  in.).

**HEIGHT OF FALL:**  $300 \text{ cm} \pm 1.5 \text{ cm}$ , measured from the tip of the striker point to the outer surface of the mounted protective headgear.

**FAILURE CRITERION:** When tested, the protective headgear shall be failed if the penetrator has made an indentation in the headform.

TEST	HELMET	TEST LOCATION	PASS	FAIL	CONDITIONS
1	A	Crown	X		AMBIENT
2	A	Rear Right	X		AMBIENT
3	B	Crown	X		LOW TEMPERATURE
4	B	Rear Right		X	LOW TEMPERATURE
5	C	Crown	X		HIGH TEMPERATURE
6	C	Rear Right		X	HIGH TEMPERATURE
7	D	Crown	X		WATER IMMERSED
8	D	Rear Right	X		WATER IMMERSED

COMMENT: Photographs of penetration test locations are found in Appendix C.

## RETENTION SYSTEM

Paragraph S5.3 and S7.3

REQUIREMENTS:

READING	APPLIED LOAD
INITIAL	22.68 kg, + 4.54 kg, - 0 kg (50.0 Lbs, + 10 Lbs, - 0 Lbs)
FINAL	136 kg, + 0 kg, - 2.3 kg (300.0 Lbs, + 0 Lbs, - 5 Lbs)

ELONGATION NOT TO EXCEED 2.5 cm (1.0 INCH) AFTER LOAD INCREASE

HELMET	CONDITIONS	ELONGATION (cm)
A	AMBIENT	1.55
B	LOW TEMPERATURE	1.07
C	HIGH TEMPERATURE	1.05
D	WATER IMMERSED	1.24

CONFIGURATION - Paragraph S5.4 - Helmet shall provide a minimum peripheral vision of 105° to each side of the midsagittal plane. The brow opening shall be at least 2.54 cm (1 inch) above all points in the basic plane that are within the angles of peripheral vision.

	REQUIREMENTS	TEST RESULTS
PERIPHERAL VISION	> 105°	Pass
BROW OPENING	> 2.5 cm (1 inch)	Pass

COMMENT: Values in the above tables are rounded.

## LABELING

S5.6.1 *Labeling* - Each helmet shall be permanently and legibly labeled, in a manner such that the label(s) can be easily read without removing padding or any other permanent part, with the following:

Required Information	Content/Format	Permanent
Manufacturer's name	Pass	Pass
Discrete size	Pass	Fail
Month and year of manufacture	Pass	Pass
Instructions to the purchaser as follows:	-----	-----
“Shell and liner constructed of (identify type(s) of materials).”	Pass	Pass
“Helmet can be seriously damaged by some common substances without damage being visible to the user.”	Pass	Pass
“Apply only the following: (Recommended cleaning agents, paints, adhesives, etc., as appropriate.”	Pass	Pass
“Make no modifications.”	Pass	Pass
“Fasten helmet securely.”	Pass	Pass
“If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it.”	Pass	Pass

**COMMENT:**

1. The discrete size label does not appear to be permanent since it can be removed intact from the helmet leaving no trace on the helmet.

## LABELING

S5.6.2 Certification. Each helmet shall be labeled permanently and legibly with a label, constituting the manufacturer’s certification that the helmet conforms to the applicable Federal motor vehicle safety standards, that is separate from the label(s) used to comply with S5.6.1, and complies with paragraphs (a) through (c) of this section.(a) Content, format, and appearance. The label required by paragraph S5.6.2 shall have the following content, format, and appearance:

Required Certification Information	Content/ Format	Permanent
The symbol “DOT,” horizontally centered on the label, in letters not less than 0.38 inch (1.0 cm) high.	Pass	Pass
The term “FMVSS No. 218,” horizontally centered beneath the symbol DOT, in letters not less than 0.09 inches (0.23 cm) high.	Pass	
The word “CERTIFIED,” horizontally centered beneath the term “FMVSS No. 218,” in letters not less than 0.09 inches (0.23 cm) high.	Pass	
The precise model designation horizontally centered above the symbol DOT, in letters and/or numerals not less than 0.09 inch (0.23 cm) high.	Pass	
The manufacturer’s name and/or brand, horizontally centered above the model designation, in letters and/or numerals not less than 0.09 inch (0.23 cm) high.	Pass	
All symbols, letters and numerals shall be in a color that contrasts with the background of the label.	Pass	
No information, other than the information specified in subparagraph (a), shall appear on the label.	Pass	
The label shall appear on the outer surface of the helmet and be placed so that it is centered laterally with the horizontal centerline of the DOT symbol located a minimum of 1 inch (2.5 cm) and a maximum of 3 inches (7.6 cm) from the bottom edge of the posterior portion of the helmet.	Pass	

**COMMENT:**

1. Labels were determined to be both easily read and permanent based on the TP-218-07, Section 12.5.4.

## TEST DATA

Contract File No.: 52.1602

Test File: 001

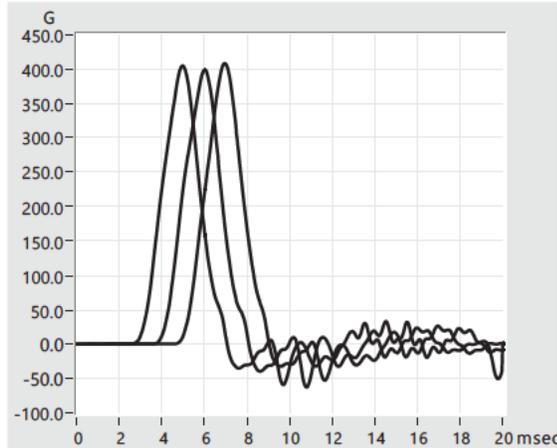
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SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/FMVSS No.218

Technician: Rashaan James

Test Date: 23 May 2025

# Uni-Axial System-Check

Helmet Manufacturer :  
Address :



Testing Laboratory : ACT LAB USA  
Address : 3280 E 59th Street  
Long Beach, CA  
90805

Laboratory Technician name : Rashaan

M.E.P. Pad Model : H0242

Laboratory Temperature : 21 deg C

Laboratory Humidity : 50 %

Selected Filter Frequency : CFC1000 # 1650 Hz

Acc. sensitivity (axis Z) : 10.67 mV/G

Acc. sensitivity (axis X) : 10.00 mV/G

Acc. sensitivity (axis Y) : 10.00 mV/G

Drop Device : D.O.T Size C (Uni-Axial) 24

Drop mass assembly : 4.997 kg Time gate flag height : 25.58 mm

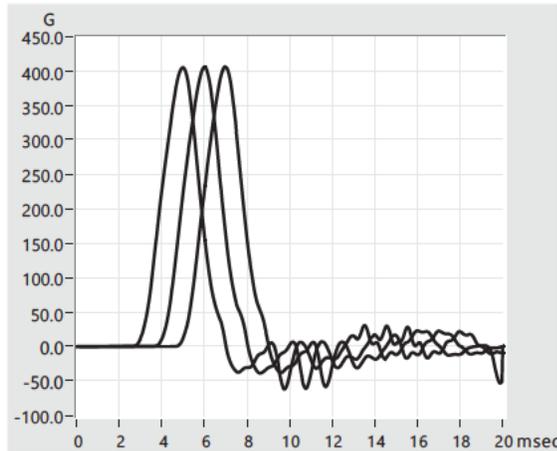
Calibration peak : 400.0 G +/- 20.00 G

Impact #	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
1	128.0	58.7	3.20	5.28	4.85	400	2.3	2.0	3570.3	3979.9	09:51:18	2025-05-23	Pass
2	128.0	58.3	3.60	5.29	4.83	399	2.3	2.0	3573.7	3992.3	09:51:28	2025-05-23	Pass
3	128.0	58.6	3.40	5.28	4.84	401	2.3	2.0	3668.0	4097.1	09:56:53	2025-05-23	Pass
4	128.0	58.9	3.20	5.27	4.85	404	2.3	2.0	3694.0	4131.0	09:57:09	2025-05-23	Pass
5	128.0	58.2	3.60	5.30	4.83	398	2.3	2.0	3583.2	3987.7	09:57:17	2025-05-23	Pass
6	128.0	59.0	3.00	5.26	4.86	408	2.3	2.0	3706.1	4171.0	09:57:26	2025-05-23	Pass
Last 3#	128.00	58.70	3.27	5.28	4.85	403.33	2.30	2.00	3661.10	4096.57	9.00	2025.00	0.00

Curve impact #2 : shift of 1msec ; Curve impact #3 : shift of 2msec

# Uni-Axial System-Check

Helmet Manufacturer :  
Address :



Testing Laboratory : ACT LAB USA  
Address : 3280 E 59th Street  
Long Beach, CA  
90805

Laboratory Technician name : Rashaan

M.E.P. Pad Model : H0242

Laboratory Temperature : 21 deg C

Laboratory Humidity : 50 %

Selected Filter Frequency : CFC1000 # 1650 Hz

Acc. sensitivity (axis Z) : 10.67 mV/G

Acc. sensitivity (axis X) : 10.00 mV/G

Acc. sensitivity (axis Y) : 10.00 mV/G

Drop Device : D.O.T Size C (Uni-Axial) 24

Drop mass assembly : 4.997 kg Time gate flag height : 25.58 mm

Calibration peak : 400.0 G +/- 20.00 G

Impact #	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
1	128.0	58.8	3.20	5.27	4.85	409	2.3	2.0	3786.6	4227.1	13:55:26	2025-05-23	Pass
2	128.0	58.4	3.60	5.29	4.83	400	2.3	2.0	3781.1	4194.3	13:55:35	2025-05-23	Pass
3	128.0	58.4	3.60	5.29	4.83	403	2.3	2.0	3801.3	4217.5	13:55:44	2025-05-23	Pass
4	128.0	58.4	3.60	5.29	4.83	405	2.3	2.0	3801.5	4231.7	13:55:52	2025-05-23	Pass
5	128.0	58.3	3.60	5.29	4.83	406	2.3	2.0	3787.1	4213.9	13:55:59	2025-05-23	Pass
6	128.0	57.9	4.00	5.31	4.81	406	2.3	2.0	3793.6	4228.3	13:56:07	2025-05-23	Pass
Last 3#	128.00	58.20	3.73	5.30	4.82	405.67	2.30	2.00	3794.07	4224.63	13.00	2025.00	0.00

15 of 41 Curve impact #2 : shift of 1msec ; Curve impact #3 : shift of 2msec

Laboratory Technician name :

Helmet Manufacturer :

**Environmental Conditions**

Laboratory Temperature [°C] :

Laboratory Humidity [%] :

**SAMPLE IDENTIFICATION**

Model :

Color :

Size :

Weight [g] :

Manufacturing Date :

Standard Request :

Identification Code :

Headform Model :

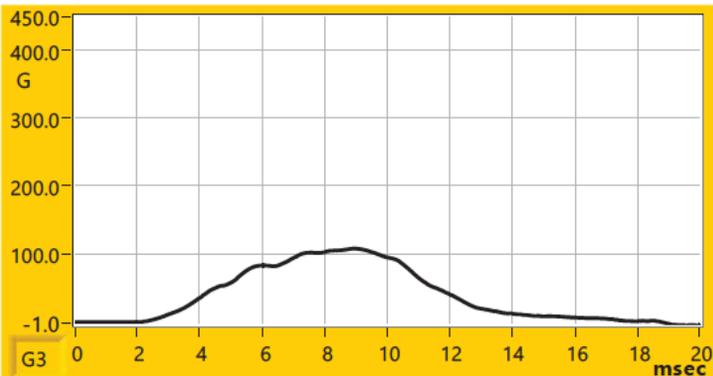
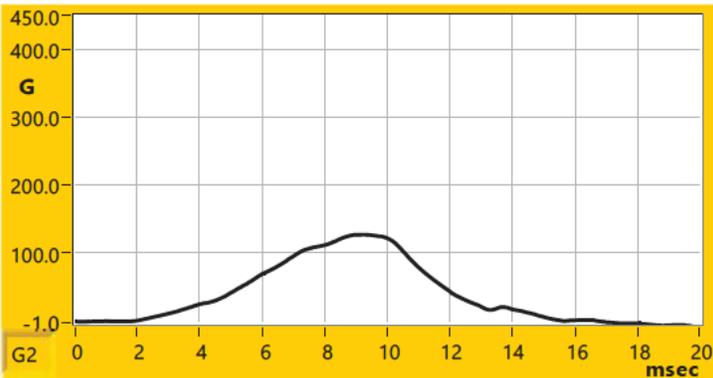
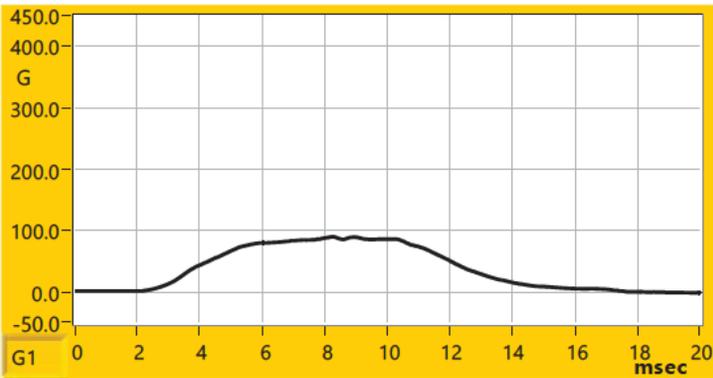
Headform Size :

Conditioning :

Drop mass assembly :  kg

Impact #	Position	Anvil type	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
1	Front	Hemi	150.0	70.2	2.29	4.83	5.30	89	0.0	0.0	402.5	433.4	11:18:30	2025-05-23	Pass
2	Front	Hemi	150.0	68.6	3.39	4.88	5.24	128	0.0	0.0	619.8	703.1	11:18:48	2025-05-23	Pass
3	Left	Hemi	150.0	68.7	3.39	4.88	5.24	109	0.0	0.0	501.3	558.2	11:49:13	2025-05-23	Pass
4	Left	Hemi	150.0	68.0	3.76	4.90	5.22	154	0.6	0.0	766.5	870.2	11:49:25	2025-05-23	Pass
5	Right	Flat	200.0	91.8	3.24	4.22	6.06	193	2.6	0.0	1387.0	1506.8	12:15:09	2025-05-23	Pass

### IMPACT TEST RESULTS

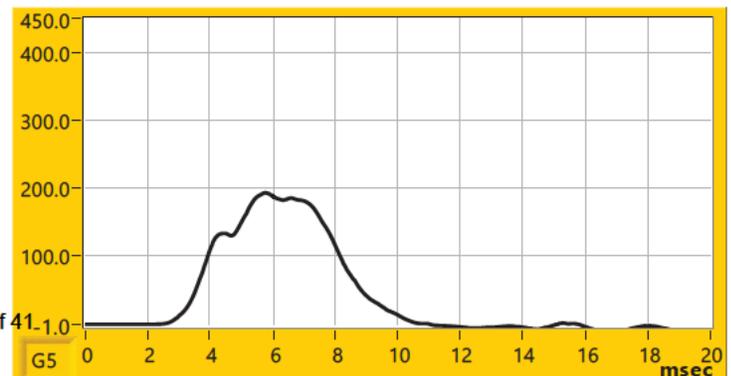
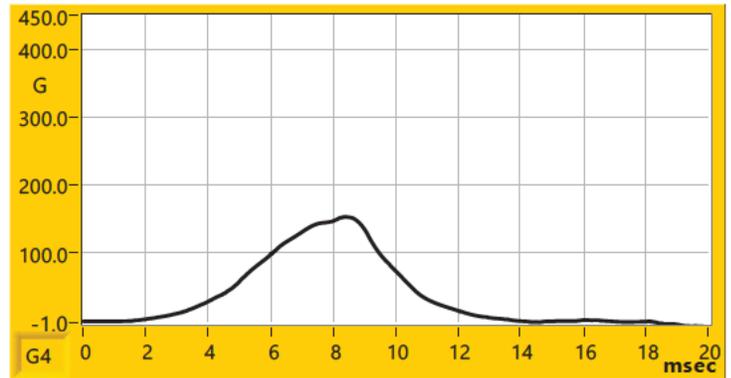


### PASS / FAIL CRITERIA

Maximum Peak G's authorized :

Maximum Peak m/s<sup>2</sup> authorized :

Type of test	ACC [g]	HIC
Std LiLinear Impact Std	= < 275	2400
Linear Extra Point	= < 275	2400
Linear Hi Energy	= < 275	2880
Linear Low Energy	= < 180	1200



Laboratory Technician name :

Helmet Manufacturer :

**Environmental Conditions**

Laboratory Temperature [°C] :

Laboratory Humidity [%] :

**SAMPLE IDENTIFICATION**

Model :

Color :

Size :

Weight [g] :

Manufacturing Date :

Standard Request :

Identification Code :

Headform Model :

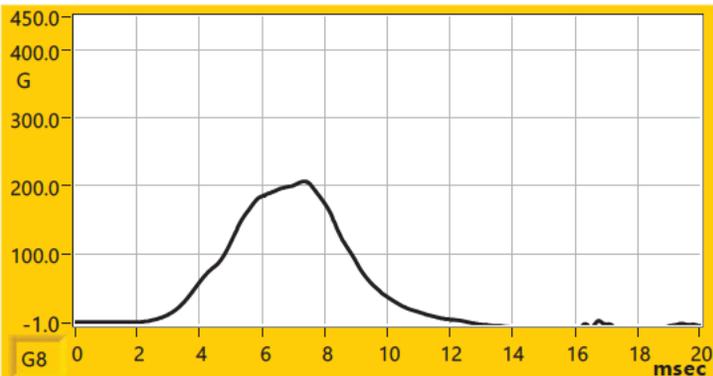
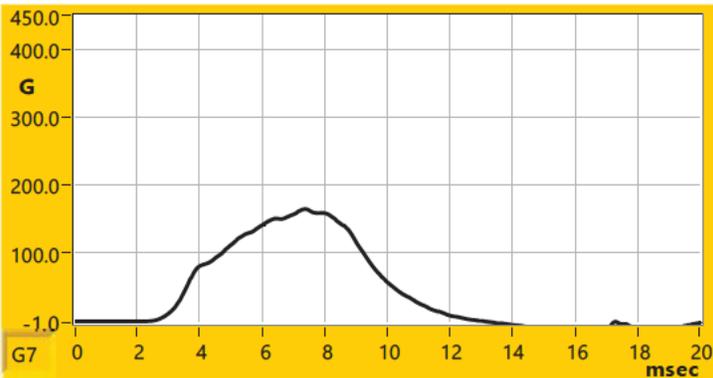
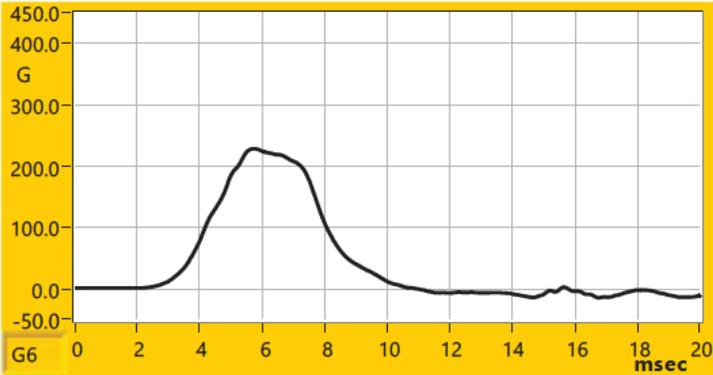
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Conditioning :

Drop mass assembly :

Impact #	Position	Anvil type	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
6	Right	Flat	200.0	91.8	3.24	4.22	6.06	227	3.0	2.0	1850.8	2028.1	12:15:24	2025-05-23	Pass
7	Rear	Flat	200.0	92.2	3.08	4.21	6.07	166	2.0	0.0	1120.2	1241.4	12:26:12	2025-05-23	Pass
8	Rear	Flat	200.0	92.4	2.92	4.21	6.08	208	3.0	0.7	1547.5	1730.5	12:26:24	2025-05-23	Pass

### IMPACT TEST RESULTS

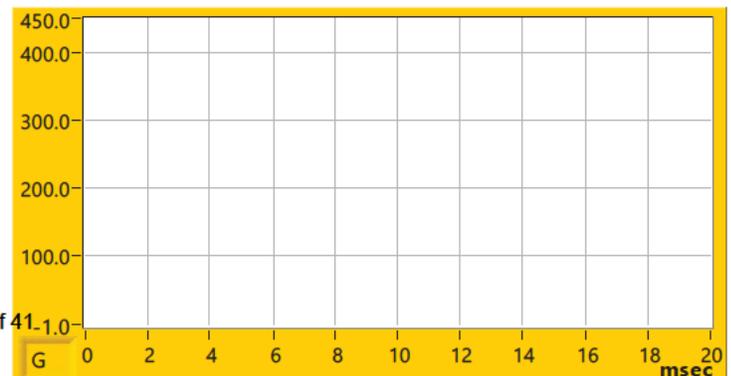
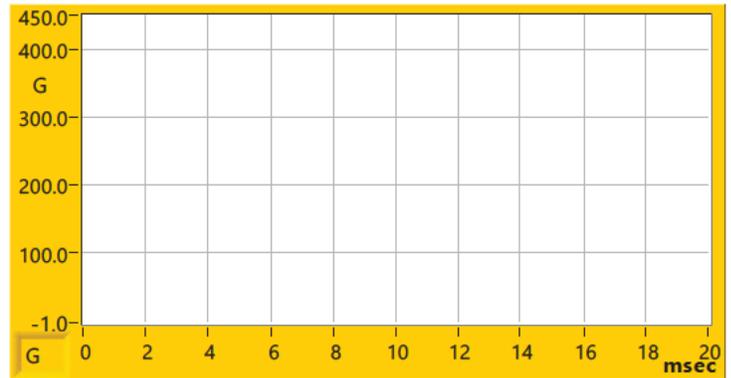


### PASS / FAIL CRITERIA

Maximum Peak G's authorized :

Maximum Peak m/s<sup>2</sup> authorized :

Type of test	ACC [g]	HIC
Std LiLinear Impact Std	= < 275	2400
Linear Extra Point	= < 275	2400
Linear Hi Energy	= < 275	2880
Linear Low Energy	= < 180	1200



Laboratory Technician name :

Helmet Manufacturer :

**Environmental Conditions**

Laboratory Temperature [°C] :

Laboratory Humidity [%] :

**SAMPLE IDENTIFICATION**

Model :

Color :

Size :

Weight [g] :

Manufacturing Date :

Standard Request :

Identification Code :

Headform Model :

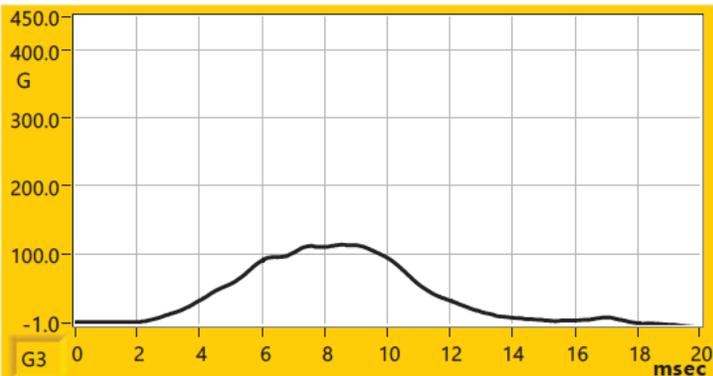
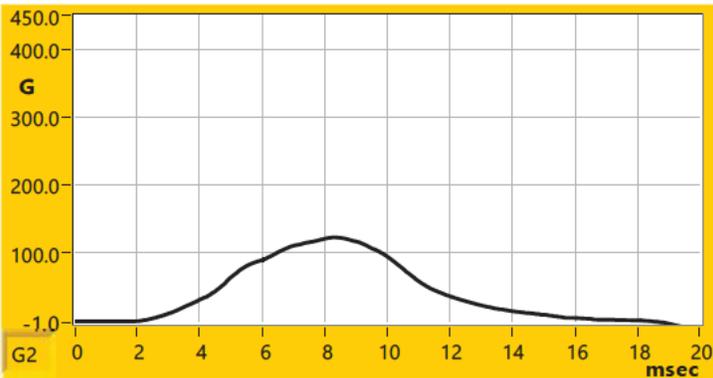
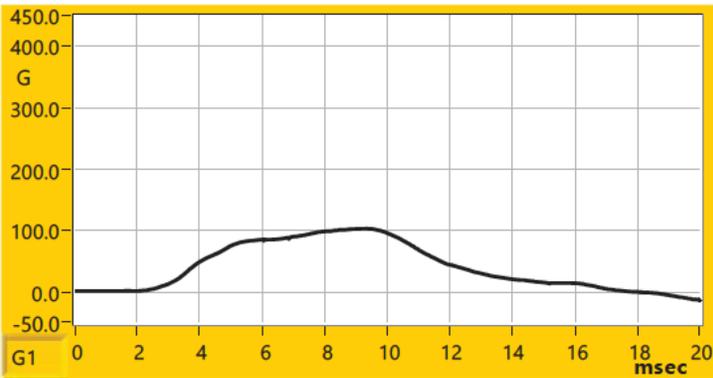
Headform Size :

Conditioning :

Drop mass assembly :

Impact #	Position	Anvil type	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
1	Front	Hemi	150.0	68.9	3.21	4.87	5.25	102	0.0	0.0	492.1	541.3	11:21:10	2025-05-23	Pass
2	Front	Hemi	150.0	68.8	3.21	4.87	5.25	124	0.0	0.0	620.0	692.5	11:21:21	2025-05-23	Pass
3	Left	Hemi	150.0	67.7	4.13	4.91	5.20	114	0.0	0.0	543.9	603.3	11:52:18	2025-05-23	Pass
4	Left	Hemi	150.0	68.9	3.21	4.87	5.25	162	1.7	0.0	906.0	1005.7	11:52:30	2025-05-23	Pass
5	Right	Flat	200.0	92.3	2.92	4.21	6.08	209	2.8	1.0	1576.6	1731.6	12:18:24	2025-05-23	Pass

### IMPACT TEST RESULTS

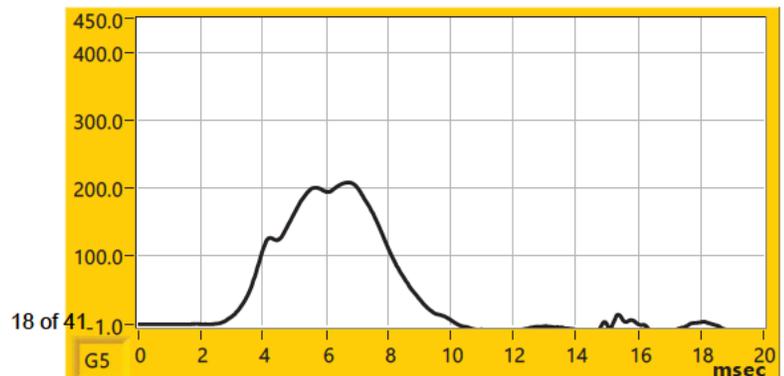
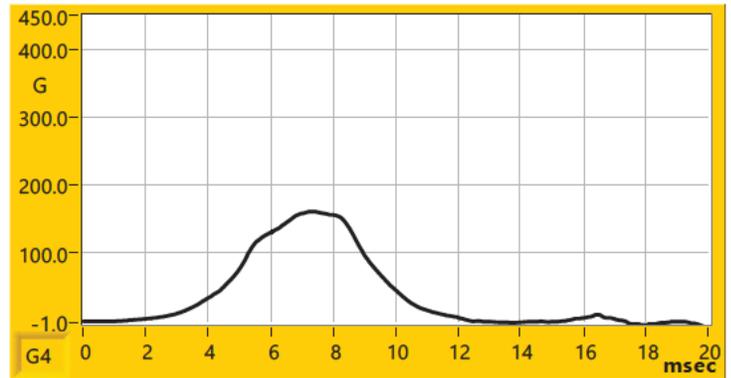


### PASS / FAIL CRITERIA

Maximum Peak G's authorized :

Maximum Peak m/s<sup>2</sup> authorized :

Type of test	ACC [g]	HIC
Std LiLinear Impact Std	= < 275	2400
Linear Extra Point	= < 275	2400
Linear Hi Energy	= < 275	2880
Linear Low Energy	= < 180	1200



Laboratory Technician name :

Helmet Manufacturer :

**Environmental Conditions**

Laboratory Temperature [°C] :

Laboratory Humidity [%] :

**SAMPLE IDENTIFICATION**

Model :

Color :

Size :

Weight [g] :

Manufacturing Date :

Standard Request :

Identification Code :

Headform Model :

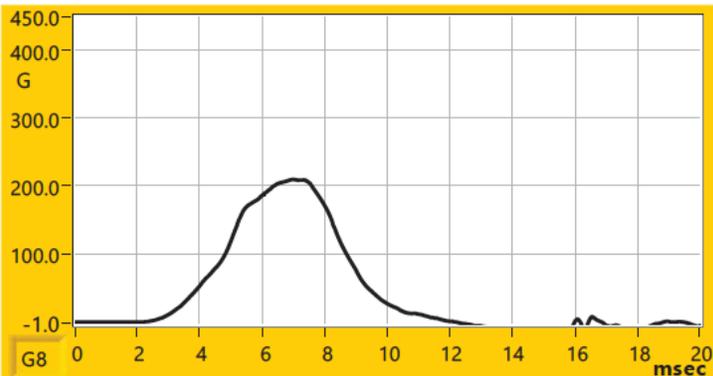
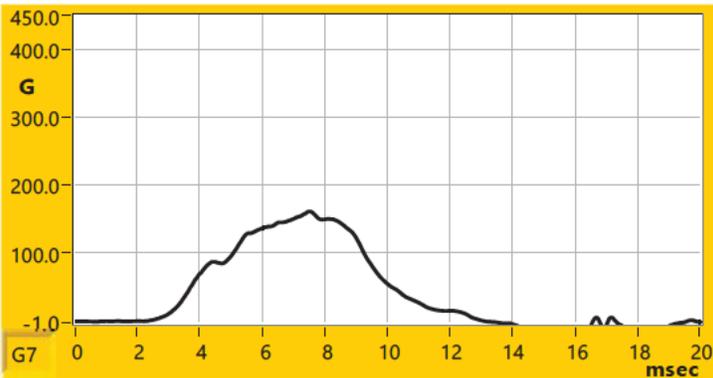
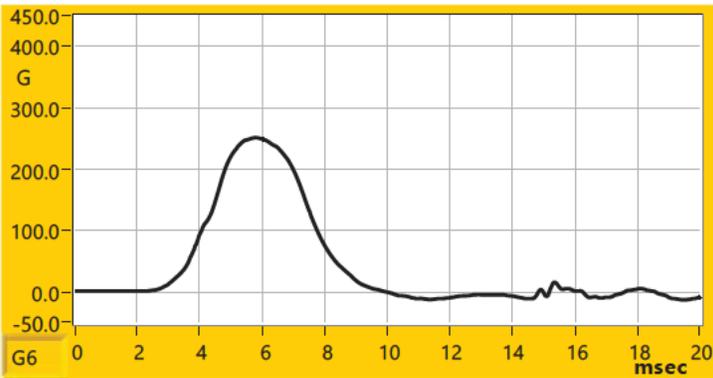
Headform Size :

Conditioning :

Drop mass assembly :

Impact #	Position	Anvil type	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
6	Right	Flat	200.0	92.1	3.08	4.21	6.07	250	2.9	2.2	2106.1	2318.7	12:18:36	2025-05-23	Fail
7	Rear	Flat	200.0	91.0	3.72	4.24	6.03	162	1.3	0.0	1019.0	1131.9	12:41:52	2025-05-23	Pass
8	Rear	Flat	200.0	92.3	2.92	4.21	6.08	210	3.0	1.2	1592.3	1764.1	12:42:03	2025-05-23	Pass

### IMPACT TEST RESULTS

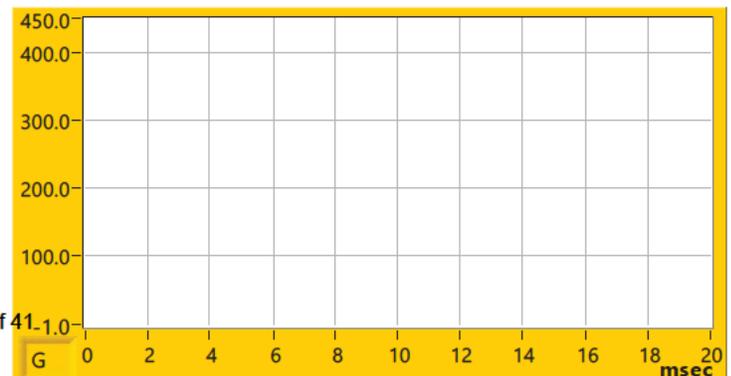
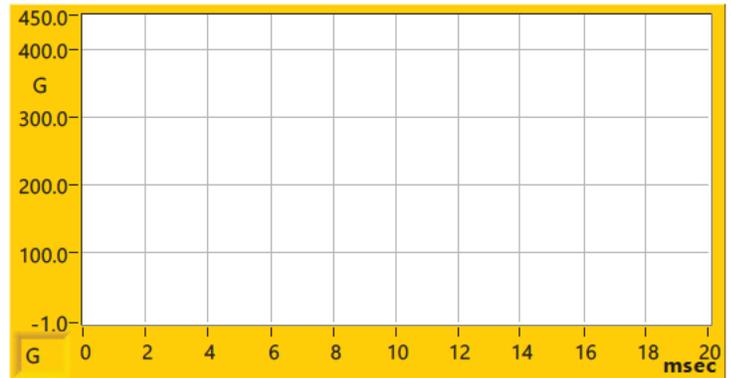


### PASS / FAIL CRITERIA

Maximum Peak G's authorized :

Maximum Peak m/s<sup>2</sup> authorized :

Type of test	ACC [g]	HIC
Std LiLinear Impact Std	= < 275	2400
Linear Extra Point	= < 275	2400
Linear Hi Energy	= < 275	2880
Linear Low Energy	= < 180	1200



Laboratory Technician name :

Helmet Manufacturer :

**Environmental Conditions**

Laboratory Temperature [°C] :

Laboratory Humidity [%] :

**SAMPLE IDENTIFICATION**

Model :

Color :

Size :

Weight [g] :

Manufacturing Date :

Standard Request :

Identification Code :

Headform Model :

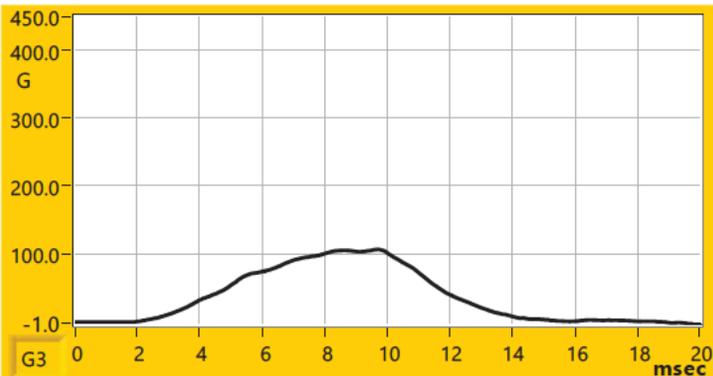
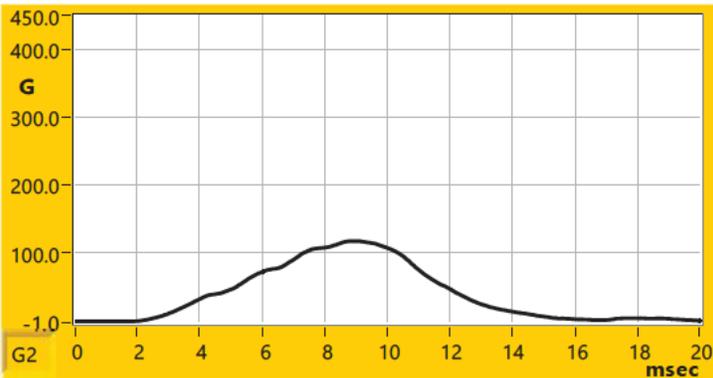
Headform Size :

Conditioning :

Drop mass assembly :

Impact #	Position	Anvil type	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
1	Front	Hemi	150.0	68.1	3.76	4.90	5.22	95	0.0	0.0	427.6	468.5	11:23:50	2025-05-23	Pass
2	Front	Hemi	150.0	68.6	3.39	4.88	5.24	118	0.0	0.0	543.8	619.5	11:24:02	2025-05-23	Pass
3	Left	Hemi	150.0	68.4	3.58	4.89	5.23	107	0.0	0.0	485.2	537.4	11:54:32	2025-05-23	Pass
4	Left	Hemi	150.0	68.9	3.21	4.87	5.25	191	1.6	0.0	907.4	1077.5	11:54:43	2025-05-23	Pass
5	Right	Flat	200.0	91.5	3.40	4.23	6.05	190	2.5	0.0	1344.5	1482.3	12:19:35	2025-05-23	Pass

### IMPACT TEST RESULTS

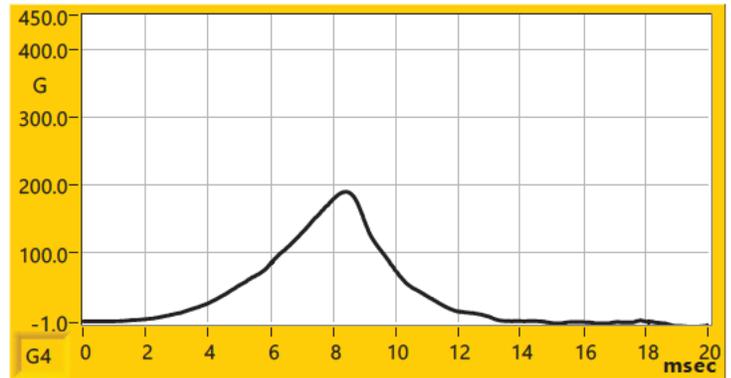


### PASS / FAIL CRITERIA

Maximum Peak G's authorized :

Maximum Peak m/s<sup>2</sup> authorized :

Type of test	ACC [g]	HIC
Std LiLinear Impact Std	= < 275	2400
Linear Extra Point	= < 275	2400
Linear Hi Energy	= < 275	2880
Linear Low Energy	= < 180	1200



Laboratory Technician name :

Helmet Manufacturer :

**Environmental Conditions**

Laboratory Temperature [°C] :

Laboratory Humidity [%] :

**SAMPLE IDENTIFICATION**

Model :

Color :

Size :

Weight [g] :

Manufacturing Date :

Standard Request :

Identification Code :

Headform Model :

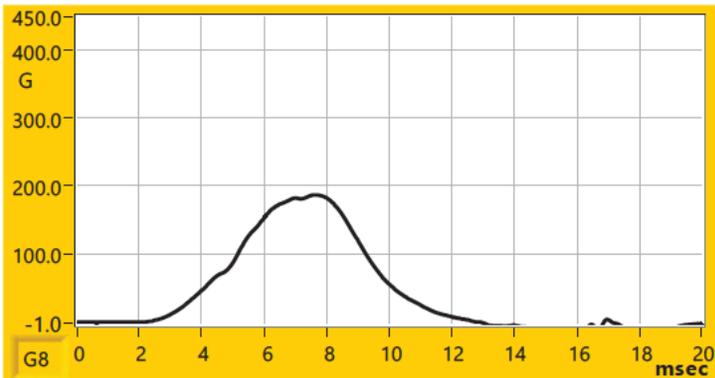
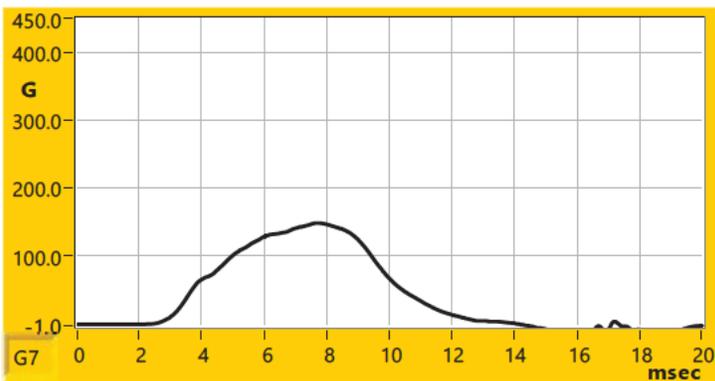
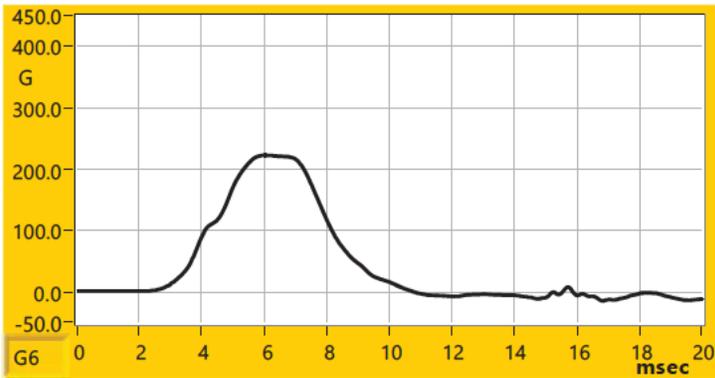
Headform Size :

Conditioning :

Drop mass assembly :  kg

Impact #	Position	Anvil type	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
6	Right	Flat	200.0	91.7	3.24	4.22	6.06	222	2.9	1.9	1774.1	1985.0	12:19:58	2025-05-23	Pass
7	Rear	Flat	200.0	92.3	2.92	4.21	6.08	149	0.0	0.0	940.6	1040.3	12:45:02	2025-05-23	Pass
8	Rear	Flat	200.0	92.1	3.08	4.21	6.07	188	2.7	0.0	1318.4	1475.8	12:45:13	2025-05-23	Pass

### IMPACT TEST RESULTS

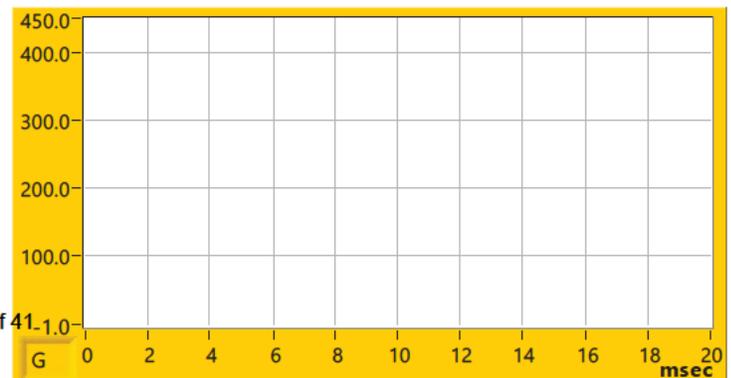
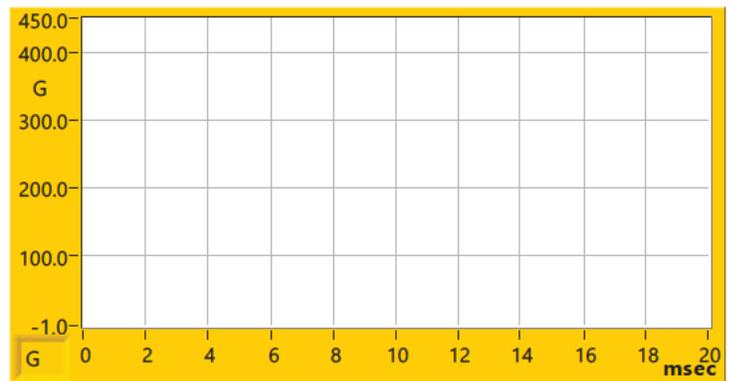


### PASS / FAIL CRITERIA

Maximum Peak G's authorized :

Maximum Peak m/s<sup>2</sup> authorized :

Type of test	ACC [g]	HIC
Std LiLinear Impact Std	= < 275	2400
Linear Extra Point	= < 275	2400
Linear Hi Energy	= < 275	2880
Linear Low Energy	= < 180	1200



Laboratory Technician name :

Helmet Manufacturer :

**Environmental Conditions**

Laboratory Temperature [°C] :

Laboratory Humidity [%] :

**SAMPLE IDENTIFICATION**

Model :

Color :

Size :

Weight [g] :

Manufacturing Date :

Standard Request :

Identification Code :

Headform Model :

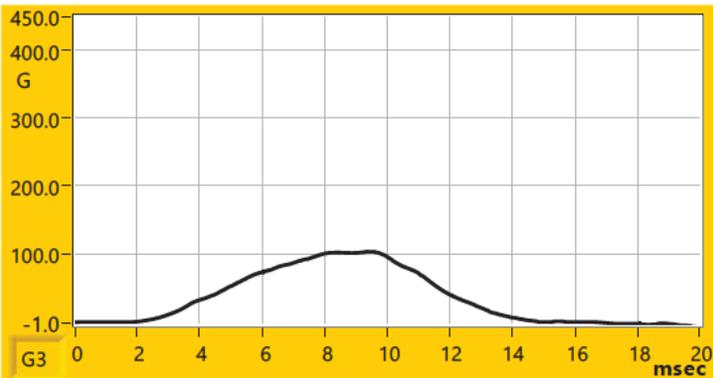
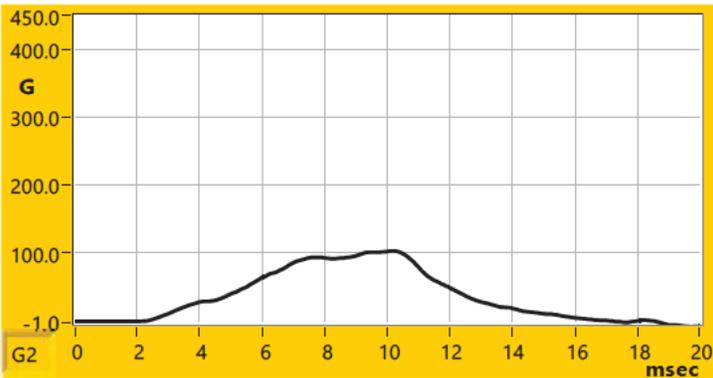
Headform Size :

Conditioning :

Drop mass assembly :  kg

Impact #	Position	Anvil type	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
1	Front	Hemi	150.0	68.3	3.58	4.89	5.23	95	0.0	0.0	395.8	433.0	11:27:08	2025-05-23	Pass
2	Front	Hemi	150.0	68.5	3.58	4.89	5.23	104	0.0	0.0	431.7	486.3	11:27:25	2025-05-23	Pass
3	Left	Hemi	150.0	67.9	3.95	4.91	5.21	104	0.0	0.0	451.1	501.6	11:57:45	2025-05-23	Pass
4	Left	Hemi	150.0	67.8	3.95	4.91	5.21	177	1.6	0.0	919.1	1046.0	11:57:57	2025-05-23	Pass
5	Right	Flat	200.0	92.6	2.76	4.20	6.09	163	0.8	0.0	942.6	1021.3	12:21:43	2025-05-23	Pass

### IMPACT TEST RESULTS

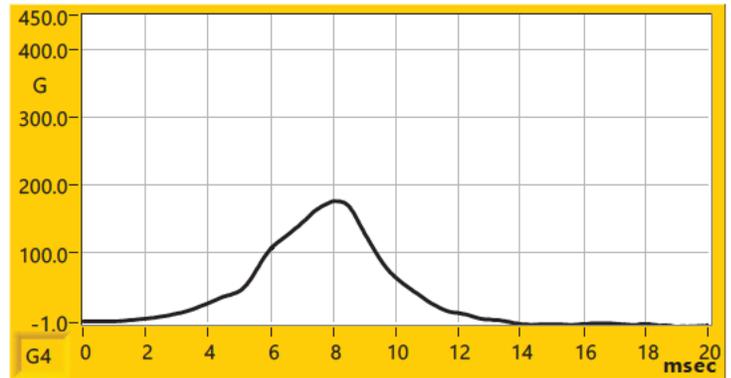


### PASS / FAIL CRITERIA

Maximum Peak G's authorized :

Maximum Peak m/s<sup>2</sup> authorized :

Type of test	ACC [g]	HIC
Std LiLinear Impact Std	= < 275	2400
Linear Extra Point	= < 275	2400
Linear Hi Energy	= < 275	2880
Linear Low Energy	= < 180	1200



Laboratory Technician name :

Helmet Manufacturer :

**Environmental Conditions**

Laboratory Temperature [°C] :

Laboratory Humidity [%] :

**SAMPLE IDENTIFICATION**

Model :

Color :

Size :

Weight [g] :

Manufacturing Date :

Standard Request :

Identification Code :

Headform Model :

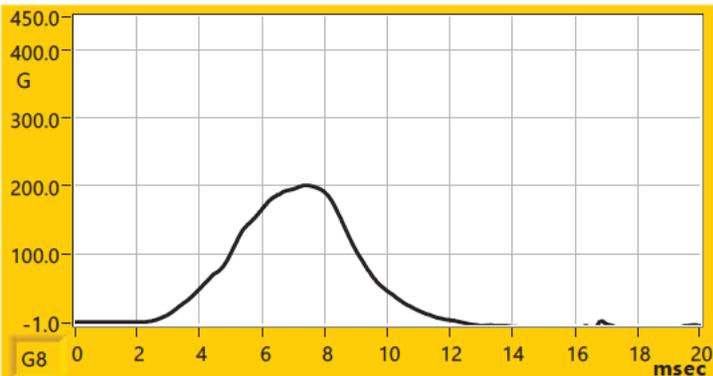
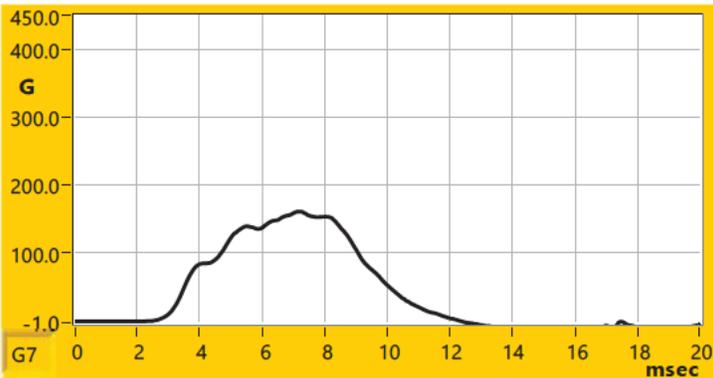
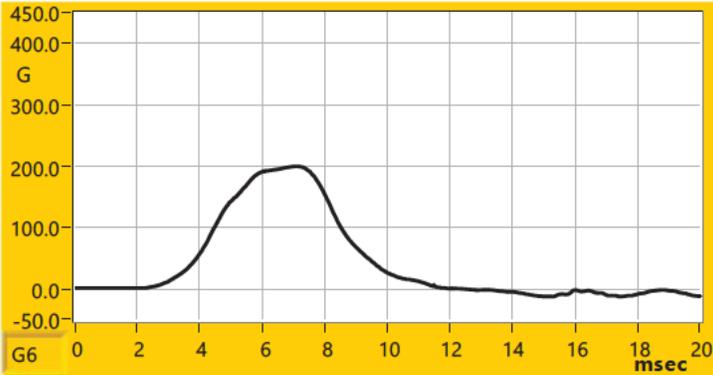
Headform Size :

Conditioning :

Drop mass assembly :

Impact #	Position	Anvil type	Drop Height (cm)	Energy (Joules)	Friction (%)	Time Gate (msec)	Velocity IN (m/sec)	Peak Acc.(G)	Delta T 150G (msec)	Delta T 200G (msec)	HIC	SI	Test Time	Test Date	PASS or FAIL
6	Right	Flat	200.0	92.1	3.08	4.21	6.07	199	2.9	0.0	1484.6	1632.3	12:21:56	2025-05-23	Pass
7	Rear	Flat	200.0	92.4	2.92	4.21	6.08	162	1.8	0.0	1091.0	1207.6	12:39:14	2025-05-23	Pass
8	Rear	Flat	200.0	93.0	2.60	4.19	6.10	202	2.9	0.4	1502.4	1675.3	12:39:25	2025-05-23	Pass

### IMPACT TEST RESULTS

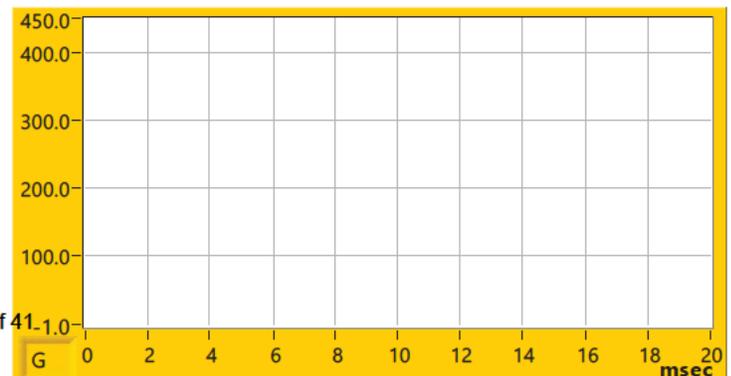
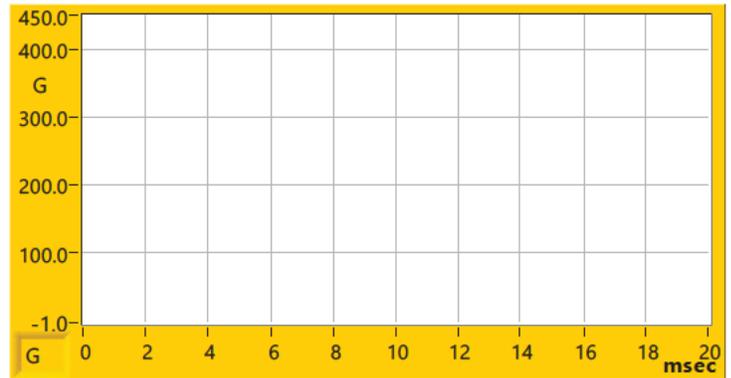


### PASS / FAIL CRITERIA

Maximum Peak G's authorized :

Maximum Peak m/s<sup>2</sup> authorized :

Type of test	ACC [g]	HIC
Std LiLinear Impact Std	= < 275	2400
Linear Extra Point	= < 275	2400
Linear Hi Energy	= < 275	2880
Linear Low Energy	= < 180	1200

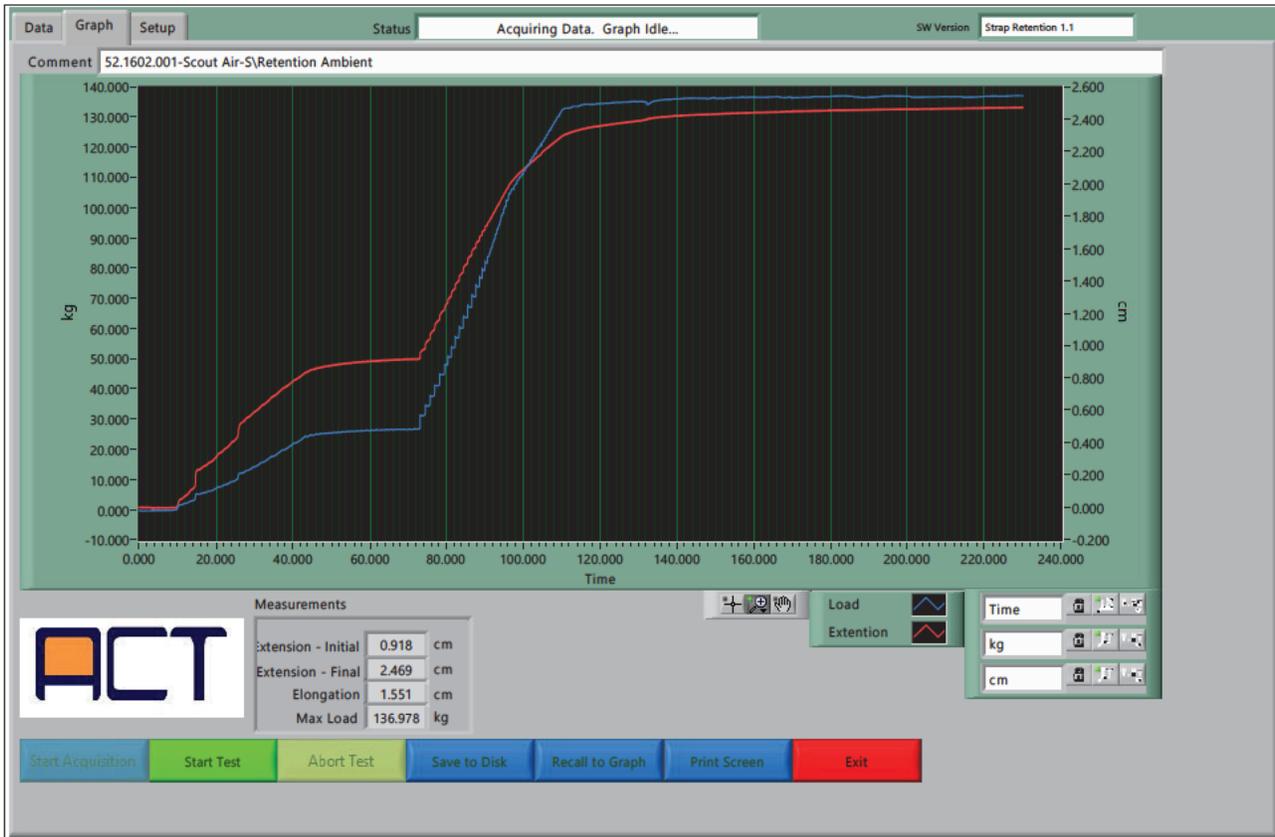


ACT DOT Strap Retention Acquisition

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Printed on 5/23/2025 at 2:16 PM

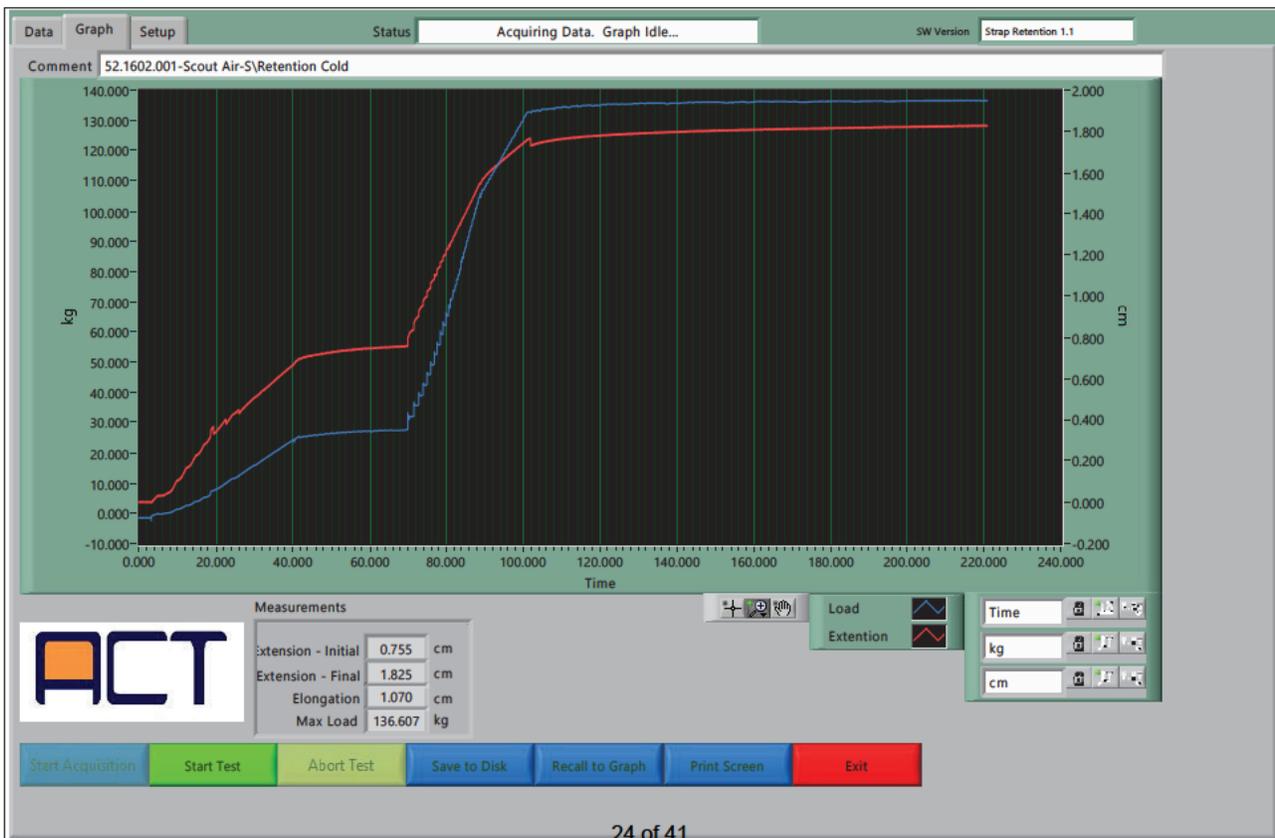


ACT DOT Strap Retention Acquisition

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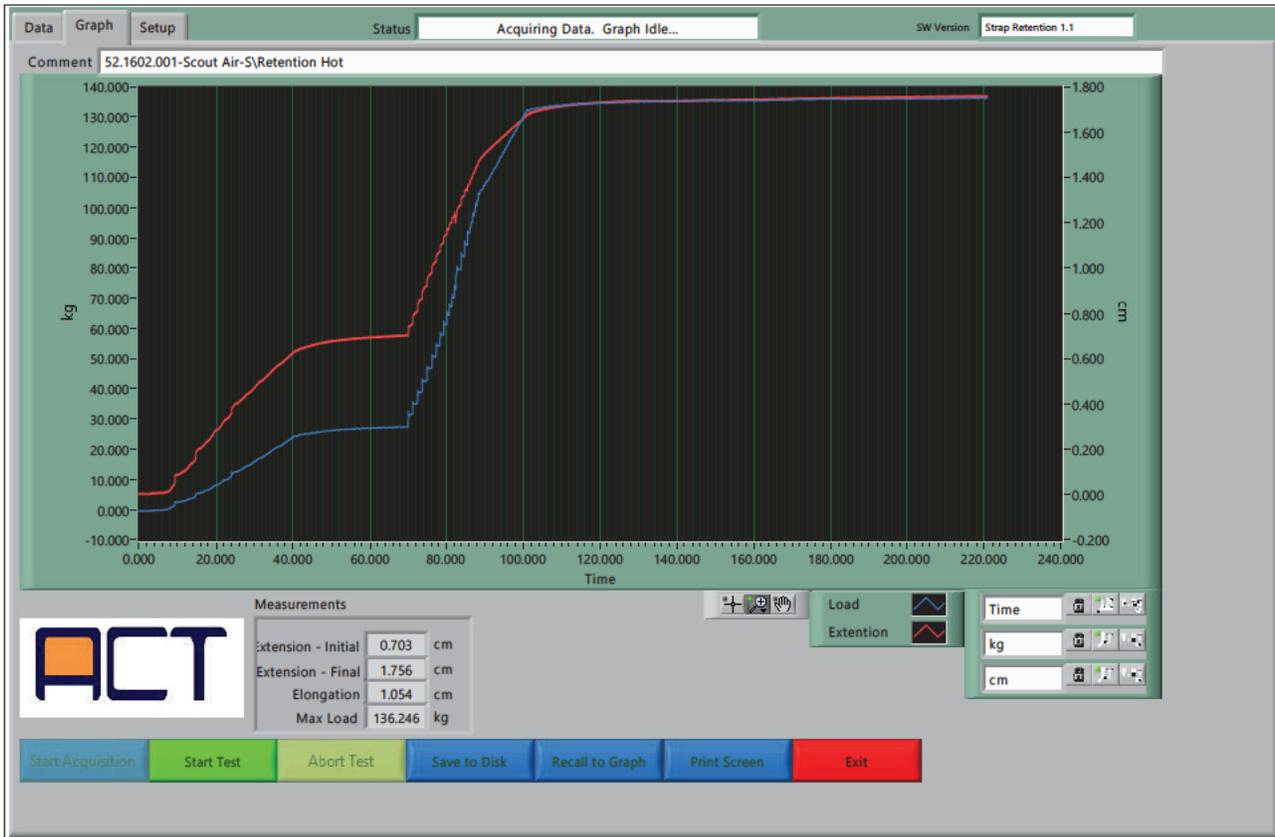


ACT DOT Strap Retention Acquisition

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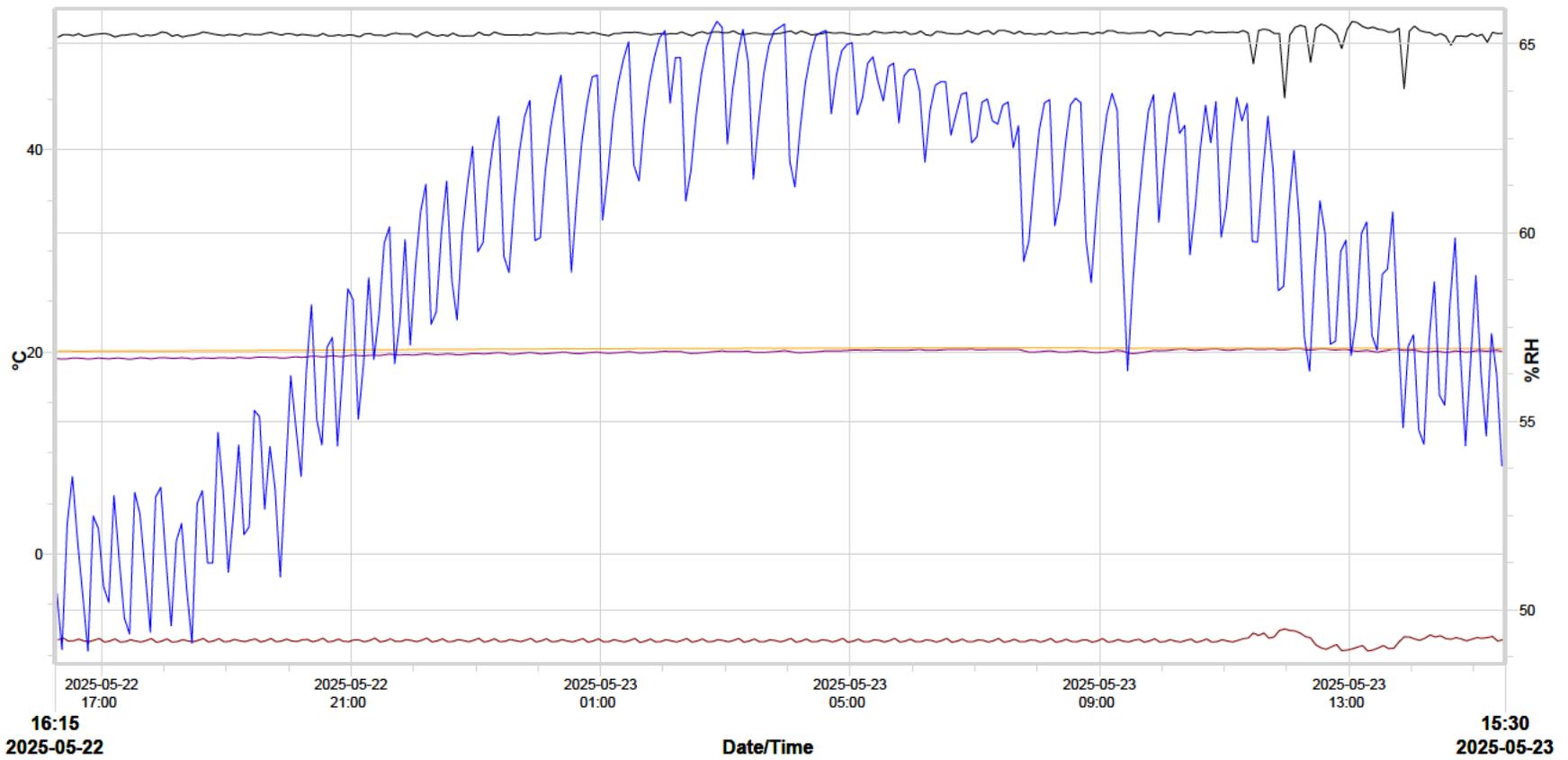
ACT DOT Strap Retention Acquisition

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Last modified on 10/1/2017 at 4:36 PM

Printed on 5/23/2025 at 2:54 PM





Report Summary Statistics										
#	Location	Zone	Color	Units	Avg	Min	Max	STD	MKT	Samples
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2	H0177 Lab Temp (1049)	viewLinc/Helmet Lab (1047)	Purple	°C	19.91	19.26	20.33	0.30	19.91	279
3	H0178 Oven Temp (1051)	viewLinc/Helmet Lab (1047)	Black	°C	51.44	45.12	52.69	0.61	51.46	279
4	H0178 Water Temp (1050)	viewLinc/Helmet Lab (1047)	Orange	°C	20.29	20.06	20.41	0.10	20.29	279
5	H0179 Freezer Temp (1052)	viewLinc/Helmet Lab (1047)	Red	°C	-8.58	-9.62	-7.42	0.27	-8.57	279

## **APPENDIX A**

### **INTERPRETATIONS OR DEVIATIONS FROM FMVSS No. 218**

Excess water on the water immersed sample was allowed to drip off before testing to prevent water damage to test equipment.

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Technician: Rashaan James

Test Date: 23 May 2025

## **APPENDIX B**

Contract File No.: 52.1602

Test File: 001

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## EQUIPMENT LIST AND CALIBRATION SCHEDULES

EQUIPMENT LIST					
Asset Tag	Description of part	Model Number	Serial Number	Last Verified On	Next Verification
H0028	Anvil	Hemispherical	C070911-01	12/13/2024	12/13/2025
H0029	Anvil	Flat	C310811-02	12/13/2024	12/13/2025
H0030	Anvil	Curbstone	NA	12/13/2024	12/13/2025
H0032	Anvil	Triangular Hazard	NA	12/13/2024	12/13/2025
H0034	Anvil	Cylindrical Small	NA	12/13/2024	12/13/2025
H0036	Anvil	Equestrian	NA	12/13/2024	12/13/2025
H0037	Anvil	Cylinder	NA	12/13/2024	12/13/2025
H0038	Anvil	Edge	NA	12/13/2024	12/13/2025
H0039	Anvil	Skate Blade	NA	12/13/2024	12/13/2025
H0093	Ballast Mass	Pre load Ballast (DOT)	NA	12/13/2024	12/13/2025
H0094	Ballast Mass	Pre load Ballast (CPSC)	NA	12/13/2024	12/13/2025
H0040	Clamp	Cadex	NA	12/13/2024	12/13/2025
H0051	Clamp	Cadex	NA	12/13/2024	12/13/2025
H0055	Clamp	Cadex	NA	12/13/2024	12/13/2025
H0144	Clamp	Cadex	NA	12/13/2024	12/13/2025
H0146	Clamp	Cadex	NA	12/13/2024	12/13/2025
H0183	Clamp	Cadex	NA	12/13/2024	12/13/2025
H0058	Drop Mass	Steel Ball Arm	NA	12/13/2024	12/13/2025
H0060	Drop Mass	Spherical Impactor	NA	12/13/2024	12/13/2025
H0062	Drop Mass	Chin Bar Impactor	NA	12/13/2024	12/13/2025
H0064	Drop Mass	Penetration Tip	NA	12/13/2024	12/13/2025
H0065	Drop Mass	Penetration Tip	NA	12/13/2024	12/13/2025
H0068	Drop Mass	GM Impactor	NA	12/13/2024	12/13/2025
H0173	Drop Mass	Drop Carriage	NA	12/13/2024	12/13/2025
H0164	Drop Mass	Face Shield Projectile	NA	12/13/2024	12/13/2025
H0172	Drop Mass	Aluminum Ball Arm	NA	12/13/2024	12/13/2025
H0204	Drop Mass	GM Shaft	NA	12/13/2024	12/13/2025
H0205	Drop Mass	Magnesium Ball Arm	NA	12/13/2024	12/13/2025
H0092	Environmental Chamber	Immersion Bucket	NA	NA	NA
H0268	Environmental Chamber	Freezer – CH40-20	2223579	NA	NA
H0174	Environmental Chamber	Oven Heratherm OSG 750 (51029339)	42394580	NA	NA
H0077	Fixture	Roll Bar Anvil	NA	12/13/2024	12/13/2025
H0079	Fixture	Mono Rail Tower	NA	12/13/2024	12/13/2025
H0080	Fixture	Penetration Tube	NA	12/13/2024	12/13/2025
H0081	Fixture	Positional Stability	NA	12/13/2024	12/13/2025
H0082	Fixture	Retention	NA	12/13/2024	12/13/2025
H0223	Fixture	Dynamic Retention (CPSC)	NA	12/13/2024	12/13/2025
H0084	Fixture	Chin Bar	NA	NA	NA
H0088	Fixture	Penetration Height Stick (DOT)	NA	NA	NA
H0089	Fixture	Peripheral Vision	NA	NA	NA
H0095	Fixture	Positional Stability Drop App (CPSC)	NA	12/13/2024	12/13/2025
H0096	Fixture	Positional Stability Drop App (DOT)	NA	12/13/2024	12/13/2025
H0111	Fixture	Precision Brow Block	NA	12/13/2024	12/13/2025
H0120	Fixture	Penetration Headform Mount	NA	NA	NA
H0136	Fixture	Projectile Tube (SFI)	NA	NA	NA
H0166	Fixture	Peripheral Vision Go-No-Go	NA	12/13/2024	12/13/2025
H0009	Headform	ISO/EN960 A (Full Impact)	4051	12/13/2024	12/13/2025
H0010	Headform	ISO/EN960 E (Full Impact)	4023	12/13/2024	12/13/2025
H0011	Headform	ISO/EN960 J (Full Impact)	7642	12/13/2024	12/13/2025
H0012	Headform	ISO/EN960 M (Full Impact)	4048	12/13/2024	12/13/2025
H0013	Headform	EN960 C (Partial Impact)	6937	12/13/2024	12/13/2025
H0016	Headform	ISO/EN960 M (Partial Impact)	4147	12/13/2024	12/13/2025
H0017	Headform	ISO/EN960 O (Partial Impact)	132	12/13/2024	12/13/2025
H0018	Headform	ISO/EN960 A (Full Reference)	NA	12/13/2024	12/13/2025
H0019	Headform	ISO/EN960 E (Full Reference)	NA	12/13/2024	12/13/2025
H0020	Headform	ISO/EN960 J (Full Reference)	NA	12/13/2024	12/13/2025
H0021	Headform	ISO/EN960 C (Full Reference)	NA	12/13/2024	12/13/2025
H0024	Headform	ISO/EN960 O (Full Reference)	6755	12/13/2024	12/13/2025
H0117	Headform	Penetration (SM DOT)	7293	12/13/2024	12/13/2025
H0118	Headform	Penetration (MD DOT)	7294	12/13/2024	12/13/2025
H0119	Headform	Penetration (LG DOT)	7296	12/13/2024	12/13/2025
H0138	Headform	DOT Small (impact)	C04574 - 7567	12/13/2024	12/13/2025
H0139	Headform	DOT Medium (impact)	C04575 - 7571	12/13/2024	12/13/2025
H0140	Headform	DOT Large (impact)	C04576 - 7573	12/13/2024	12/13/2025
H0272	Fixture	Cadex Impact Tower	091222-05	12/13/2024	12/13/2025
H0242	Anvil	MEP	11070601	12/13/2024	12/13/2025
H0273	Fixture	Static Retention Machine	051324	12/13/2024	12/13/2025

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Technician: Rashaan James

Test Date: 23 May 2025

## CALIBRATED MEASUREMENT EQUIPMENT

Asset Tag	Location	Description of part	Model Number	Measuring Range	Accuracy	Serial Number	Last Calibrated On	Calibration Due On
H0278	Helmet Room	Instrument	iGaging 35-630	12in/300mm	0.002"/0.04 mm	NA	3/20/2025	3/20/2026
H0114	Helmet Room	Instrument	Peripheral Vision Protractor	0-180°	±1°	NA	11/7/2024	11/7/2025
H0124	Helmet Room	Instrument	Digital Tape Measure - ADIRPro	16 ft/192 in	0.1 cm	NA	11/7/2024	11/7/2025
H0130	Helmet Room	Instrument	Traceable Digital Timer - 5017	99hrs/59min/59sec	0.01%	181009252	11/7/2024	11/7/2025
H0151	Helmet Room	Instrument	LVDT HR2000 (CPSC Retention)	2 inch	0.1 mm	J115479 (lvdt) / JL1506 (amp)	12/5/2024	12/5/2025
H0176	Helmet Room	Instrument	Digital Protractor - Pro 360	360°	±0.1°	19051186	11/7/2024	11/7/2025
H0177	Helmet Room	Instrument	Data Logger - SP-2000-20R (2-ch T/H)	Ch1 = -35 to 85°C Ch2 = 0 to 100%RH	± 0.10°C/ ±2%RH	19382001	10/10/2024	10/10/2025
H0178	Helmet Room	Instrument	Data Logger - SP-1016-22V (2-ch T/T)	-95 to 70°C	± 0.35°C	19381048	10/15/2024	10/15/2025
H0179	Helmet Room	Instrument	Data Logger - SP-1016-22V (1-ch T/T)	-95 to 70°C	± 0.35°C	19381045	10/15/2024	10/15/2025
H0180	Helmet Room	Instrument	Ohaus Scale - V11P6 (Valor1000)	0 to 6000g	± 0.002lb (1 g)	90921684	11/7/2024	11/7/2025
H0181	Helmet Room	Instrument	Digital Caliper	0-100 mm/0-4 in	0.01mm/ 0.0005 in	B19221219	11/18/2024	11/18/2025
H0201	Helmet Room	Instrument	Tape Measure	16 ft/5 m	± 1/32"	PHV1035CMEN	11/7/2024	11/7/2025
H0216	Helmet Room	Instrument	Accelerometer - PCB 353B14	± 1000 g	≤ 1%	234831	8/15/2024	8/15/2025
H0189	Helmet Room	Instrument	Velocimeter HVTG Short	0-7.5 m/s	0.0001 m/s	CC120200129-1	1/20/2025	1/20/2026
H0193	Helmet Room	Instrument	Velocimeter HVTG Short	0-7.5 m/s	0.0001 m/s	HVTG120200129-1	1/20/2025	1/20/2026
H0255	Helmet Room	Instrument	Data Acquisition Box (Coupler) PC-4400	±500g	±0.1%	CCS120221123-1	11/14/2024	11/14/2025
H0256	Helmet Room	Instrument	Velocimeter HVTG Short	0-7.5 m/s	0.0001 m/s	TG20080425-001	11/14/2024	11/14/2025
H0253	Helmet Room	Lab Test Computer	Dell Optiplex 7040 Software V8.65	NA	NA	NA	NA	NA
H0254	Helmet Room	Lab Test Computer	Dell Optiplex 7040 Software V8.5	NA	NA	NA	NA	NA
H0258	Helmet Room	Instrument	Accelerometer - PCB 353B18	± 500 g	≤ 1%	108564	11/26/2024	11/26/2025
H0259	Helmet Room	Instrument	Digital Tape Measure	16ft/196in	0.1 cm	NA	12/2/2024	12/2/2025

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**APPENDIX C**  
**PHOTOGRAPHS**

Contract File No.: 52.1602

Test File: 001

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Technician: Rashaan James

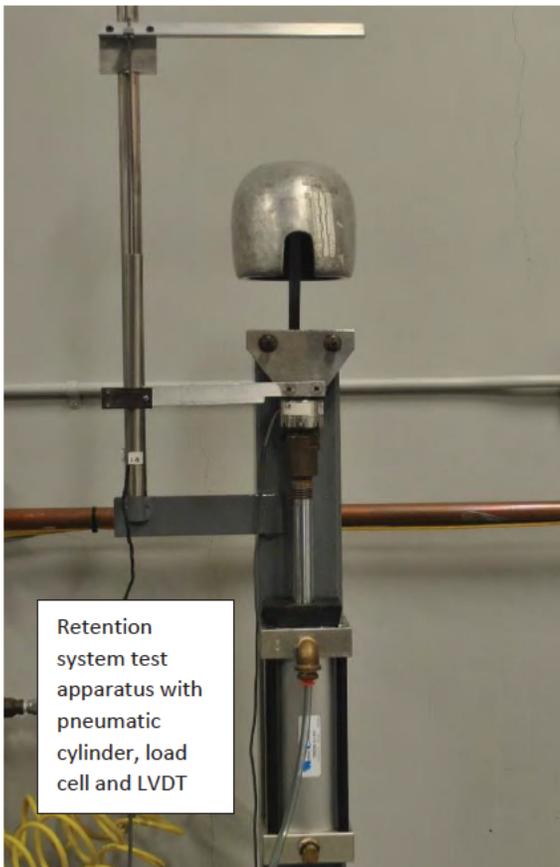
Test Date: 23 May 2025



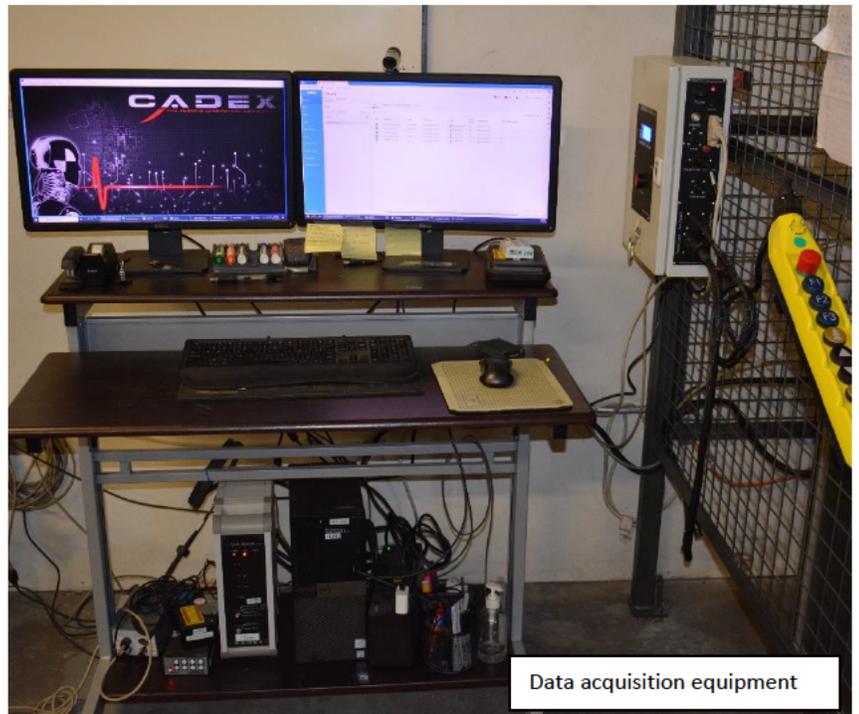
Impact attenuation test apparatus with three headforms (S, M, L) and flat, hemi and MEP anvils



Penetration test apparatus with adjustable base



Retention system test apparatus with pneumatic cylinder, load cell and LVDT



Data acquisition equipment



Low temperature conditioning cabinet

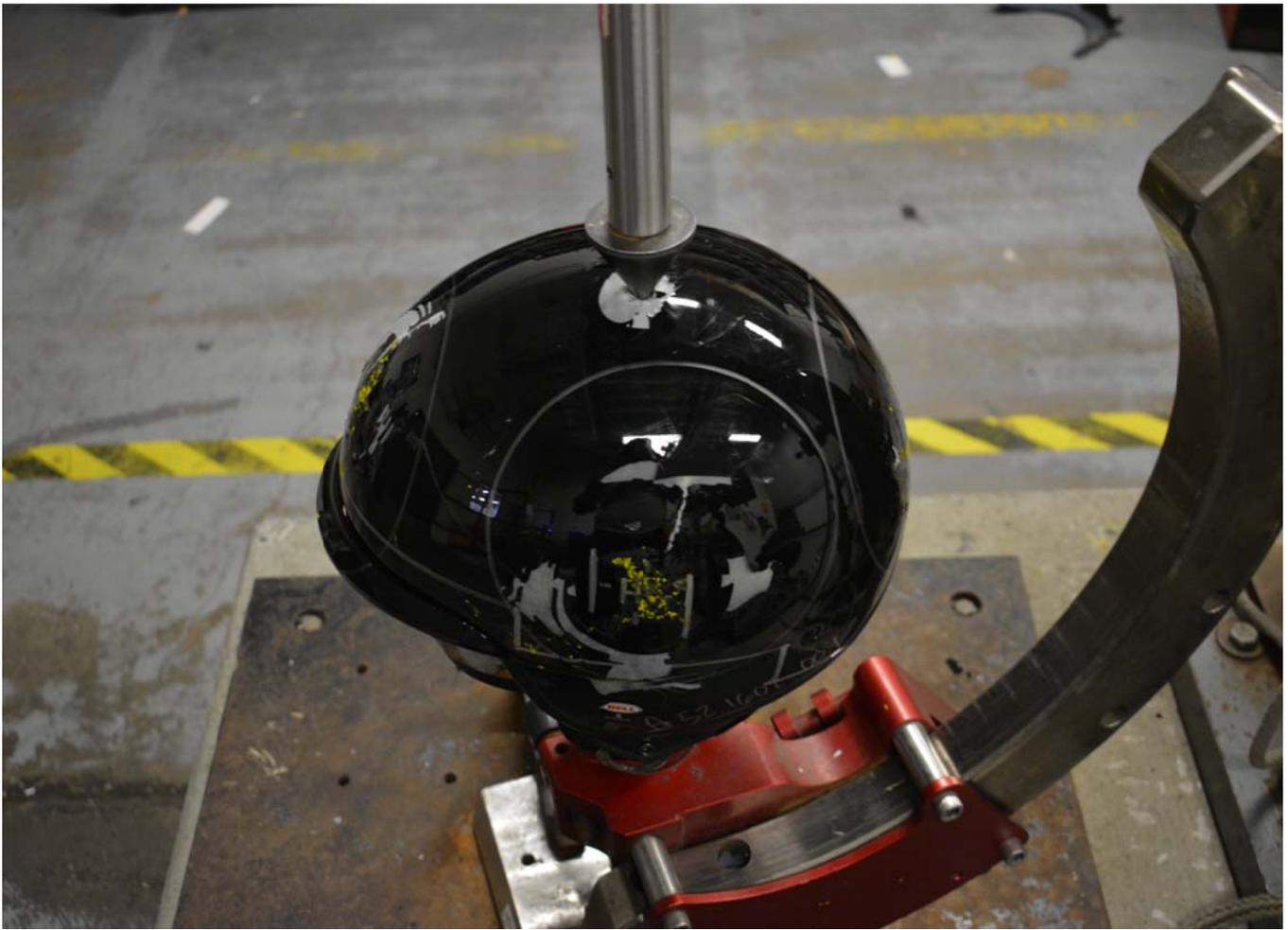


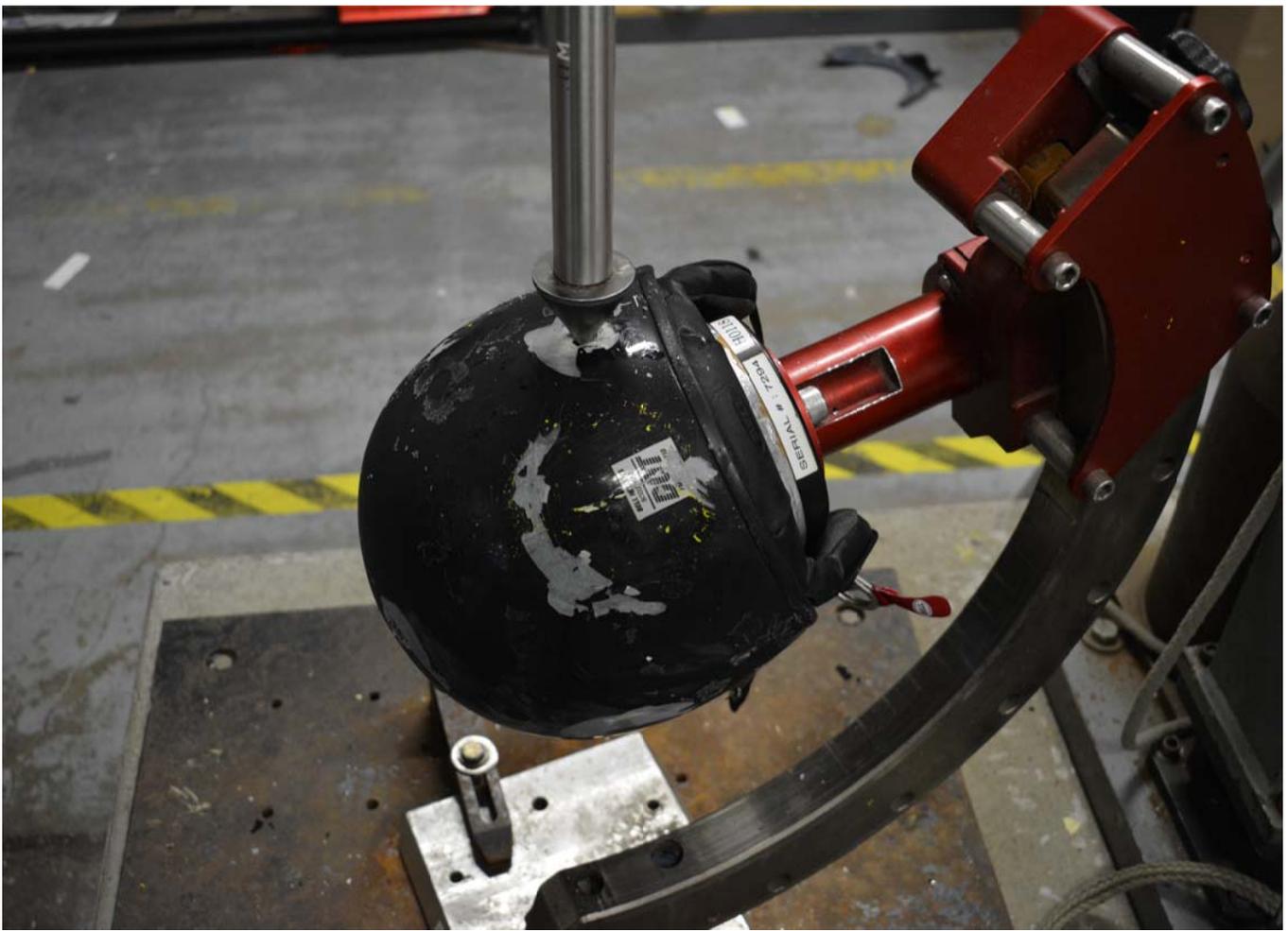
High temperature conditioning cabinet and water immersion equipment











**WARNING!**

**No helmet can protect the wearer against all possible or foreseeable impacts.**

Model:P421

For adequate protection, this helmet must fit closely and be securely attached. Any helmet that has sustained a violent impact should be replaced. This helmet is constructed so that the energy of an impact may be absorbed through its partial destruction, though damage may not be visible. 'Warning' - Do not apply paint, stickers, petrol, or other solvents to this helmet. Apply only the following: non-abrasive cleaners to the shell, only mild soap and water to fit pads and liner. Read owner's manual. To get a replacement manual call Bell at 800-456-BELL.

**BELL HELMETS. Made in China.**

**AVERTISSEMENT !**

**Aucun casque ne peut protéger le porteur contre tous les impacts possibles ou prévisibles.**

Pour une protection adéquate, ce casque doit être bien ajusté et solidement fixé. Tout casque qui a subi un impact violent doit être remplacé. Ce casque est construit de manière à ce que l'énergie d'un impact puisse être absorbée par sa destruction partielle, bien que les dommages puissent ne pas être visibles. AVERTISSEMENT - N'appliquez pas de peinture, d'autocollant, d'essence ou d'autres solvants sur ce casque. Appliquez uniquement les produits suivants : des nettoyants non abrasifs sur la coque, uniquement du savon doux et de l'eau pour conforter le rembourrage et la doublure. Lire le manuel du propriétaire. Pour obtenir un manuel de remplacement, appelez Bell au 800-456-BELL.

**BELL HELMETS. Fabriqués en Chine.**

PS10073770

**WARNING! Read owner's manual.**

Model:P421 Size: S

No helmet can protect the wearer against all possible impacts. For adequate protection this helmet must fit closely and be securely attached. If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it. Shell constructed of composite material and liner of EPS foam. Helmet can be seriously damaged by some common substances without damage being visible to the user. Apply only the following: mild soap and water. Make no modifications. Made in China.

PS101462

Manufactured: 11/22

**BELL HELMETS**



**BELL HELMETS  
SCOUT AIR**

**DOT**

**FMVSS NO. 218  
CERTIFIED**

52.1602.001  
rear right  
cold



52.1602.001  
rear right  
Hot

