

# REPORT No 11896

*Date of issue: June 17, 2026*

*Status: FINAL REPORT*

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## ISO 17706

### FOOTWEAR - UPPERS

### TENSILE STRENGTH AND ELONGATION

### Program: SQ-1056

\*\*\*\*\*

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|                                                |                                            |                                                       |
|------------------------------------------------|--------------------------------------------|-------------------------------------------------------|
| Prepared by:                                   | Reviewed by:                               | Approved by:                                          |
| <b>Berenice Ferrel</b><br>Assistant Technician | <b>Lic. Esther Casas</b><br>Physics expert | <b>Eng. Emiliano Medina</b><br>Quality Assurance Lead |

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## 1. FOREWORD

This report summarizes the results of the **SQ-1056** proficiency testing program on the determination of the force required to break test specimens from uppers. This program is conducted in a bilateral format, following the “split-sample” design described in clause A.4.2 of ISO/IEC 17043: 2023 (Alternative interlaboratory comparisons).

**South Quality** conducted the testing program in May 2026 with the aim of assessing the laboratory's ability to competently perform the designated tests.

## 2. ORGANIZATION

Program Coordinator: Lic. Esther Casas  
Assistant Technician: Berenice Ferrel  
Statistics: Lic. Manuel Tozaki  
Supervision: Eng. Emiliano Medina

## 3. OBJECTIVE

The objective of this proficiency testing program is to determine tensile properties at break, using the following standard:

| Standard        |
|-----------------|
| ISO 17706: 2003 |

To verify this, batches of samples of leather and fabrics have been selected.

Participants in this program have not been previously informed about the expected behavior of the samples they receive.

## 4. PARTICIPANT

Company: **Bureau Veritas Laboratuvarları Ltd. Şti.**  
Laboratory: **Bureau Veritas Laboratuvarları Ltd. Şti.**  
Country: Turkey  
Client ID: E477  
Contact person: Aygül Duran  
Quality Process Leader  
[aygul.duran@bureauveritas.com](mailto:aygul.duran@bureauveritas.com)

## 5. HOMOGENEITY

Several batches were prepared identically by the staff at South Quality.

Subsequently, a homogeneity study was conducted with an ISO 17025 accredited laboratory.

The control process followed ISO 33405: 2024, clauses 7.4.1.1 / 7.4.1.2. Stratified random sampling was applied, and samples were selected using random number generation software.

The results of this test are presented below:

Size of each batch: **150 units**

Tested samples from each batch: **30 units**

| DETERMINATION      | HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES |               |               |
|--------------------|------------------------------------------------|---------------|---------------|
|                    | BATCH: LT2624                                  | BATCH: LT2625 | BATCH: LT2626 |
| BREAKING STRENGTH  | YES                                            | YES           | NO            |
| TENSILE ELONGATION | YES                                            | YES           | NO            |

Size of each batch: **150 units**

Tested samples from each batch: **30 units**

| DETERMINATION      | HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES |               |               |
|--------------------|------------------------------------------------|---------------|---------------|
|                    | BATCH: LT2784                                  | BATCH: LT2785 | BATCH: LT2786 |
| BREAKING STRENGTH  | YES                                            | NO            | NO            |
| TENSILE ELONGATION | YES                                            | NO            | NO            |

The samples for this program are taken from the selected batches identified as **LT2625**, and **LT2784**.

For the indicated batches, the values determined in the homogeneity study are utilized as the assigned values.

The analysis of the test data indicated that the selected samples exhibited sufficient homogeneity for the program. Therefore, the results of participants identified as outliers cannot be attributed to sample variability.

## 6. SAMPLE INFORMATION

The following samples were sent for testing:

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| Batch:           | LT2625                                                           |
| Sample ID:       | 08                                                               |
| Characteristics: | Red faux leather fabric - 200 x 65 mm - 6 units ( 3 MD + 3 CMD ) |

|                  |                                                                    |
|------------------|--------------------------------------------------------------------|
| Batch:           | LT2784                                                             |
| Sample ID:       | 06                                                                 |
| Characteristics: | Black faux leather fabric - 200 x 65 mm - 6 units ( 3 MD + 3 CMD ) |

## 7. IMAGES



## SAMPLES



## 8. ASSIGNED VALUES

| BATCH      | BREAKING STRENGTH |      | TENSILE ELONGATION |     |
|------------|-------------------|------|--------------------|-----|
|            | ( N/mm )          | SD   | ( % )              | SD  |
| LT2625 MD  | 18.86             | 0.28 | 41                 | 0.8 |
| LT2625 CMD | 5.75              | 0.05 | 195                | 5.2 |

| BATCH      | BREAKING STRENGTH |      | TENSILE ELONGATION |     |
|------------|-------------------|------|--------------------|-----|
|            | ( N/mm )          | SD   | ( % )              | SD  |
| LT2784 MD  | 14.54             | 0.29 | 43                 | 1.2 |
| LT2784 CMD | 8.91              | 0.35 | 140                | 4.5 |

## 9. PARTICIPANT RESULTS (SEE APPENDIX B)

| CODE          | BREAKING STRENGTH<br>( N/mm ) | TENSILE ELONGATION<br>( % ) |
|---------------|-------------------------------|-----------------------------|
| LT2625-08 MD  | 19.16                         | 41                          |
| LT2625-08 CMD | 5.73                          | 192                         |

| CODE          | BREAKING STRENGTH<br>( N/mm ) | TENSILE ELONGATION<br>( % ) |
|---------------|-------------------------------|-----------------------------|
| LT2784-06 MD  | 14.66                         | 44                          |
| LT2784-06 CMD | 8.76                          | 138                         |

## 10. STATISTICS

The results must be treated as quantitative.

According to B.4.1.3 of ISO 17043 the appropriate technique is to compare participant results with the assigned values. The results can be compared using ***z* score**.

$$z = \frac{x - X}{\hat{\sigma}}$$

$x$  is the participant's result

$X$  is the assigned value

$\hat{\sigma}$  is the standard deviation

The performance evaluation of each sample is carried out with the following criteria:

**$|z| \leq 2.0$**  indicates “satisfactory” performance and generates no signal;

**$2.0 < |z| < 3.0$**  indicates “questionable” performance and generates a warning signal;

**$|z| \geq 3.0$**  indicates “unsatisfactory” performance and generates an action signal;

## 11. EVALUATION OF PERFORMANCE

| BATCH      | BREAKING STRENGTH<br>( N/mm ) |                   | z score | PERFORMANCE<br>RESULT |
|------------|-------------------------------|-------------------|---------|-----------------------|
|            | PARTICIPANT<br>RESULT         | ASSIGNED<br>VALUE |         |                       |
| LT2625 MD  | 19.16                         | 18.86             | 1.07    | SATISFACTORY          |
| LT2625 CMD | 5.73                          | 5.75              | 0.40    | SATISFACTORY          |
| LT2784 MD  | 14.66                         | 14.54             | 0.41    | SATISFACTORY          |
| LT2784 CMD | 8.76                          | 8.91              | 0.43    | SATISFACTORY          |

| BATCH      | TENSILE ELONGATION<br>( % ) |                   | z score | PERFORMANCE<br>RESULT |
|------------|-----------------------------|-------------------|---------|-----------------------|
|            | PARTICIPANT<br>RESULT       | ASSIGNED<br>VALUE |         |                       |
| LT2625 MD  | 41                          | 41                | 0       | SATISFACTORY          |
| LT2625 CMD | 192                         | 195               | 0.58    | SATISFACTORY          |
| LT2784 MD  | 44                          | 43                | 0.83    | SATISFACTORY          |
| LT2784 CMD | 138                         | 140               | 0.44    | SATISFACTORY          |

## 12. CONCLUSIONS

The overall performance of this **SQ-1056** program from the participant laboratory **Bureau Veritas Laboratuvarları Ltd. Şti**, is **SUFFICIENT** based on expected results.

The criteria used for the evaluation of the overall performance is the following:

- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.



# APPENDIX A

## INSTRUCTIONS



# INSTRUCTIONS & RESULTS FORM

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| <b>PROGRAM:</b>     | Footwear - Uppers<br>Tensile strength and elongation                                              |
| <b>CODE:</b>        | SQ-1056                                                                                           |
| <b>VERSION:</b>     | -                                                                                                 |
| <b>STANDARD:</b>    | ISO 17706                                                                                         |
| <b>COORDINATOR:</b> | Lic. Esther Casas<br>( <a href="mailto:ecasas@ptsouthquality.com">ecasas@ptsouthquality.com</a> ) |

## 1 - General

This document serves as a guide for managing the results of the **SQ-1056** program.

Results must be typed, not handwritten.

## 2 - Standard

**ISO 17706: 2003**

## 3 - Tests involved

| TEST                                                                 |
|----------------------------------------------------------------------|
| Determination of force required to break a test specimen from uppers |

## 4 - Samples

| CODE      | SAMPLE                                  | QUANTITY |
|-----------|-----------------------------------------|----------|
| LT2625-08 | Red faux leather fabric - 200 x 65 mm   | 6        |
| LT2784-06 | Black faux leather fabric - 200 x 65 mm | 6        |

## 5 - Notes

- a) Being a bilateral program, there is no deadline for submitting results.
- b) The tables in this document may be modified by the participant, if desired, to include data or observations.
- c) The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to **ISO 17706**.
- d) Samples marked with the letters **T (Transverse)** and **L (Longitudinal)** are sent.
- e) Samples must be retained until the end of the program, which concludes with the submission of the final report.
- f) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.
- g) Once this document is completed, it must be converted into a PDF file and sent to the program coordinator.

## 6 - Test results

|            |                       |
|------------|-----------------------|
| Method:    | According to standard |
| Test date: |                       |

| DIMENSIONS (mm) |  |
|-----------------|--|
| LT2625:         |  |
| LT2784:         |  |

| CONDITIONING           |  | TESTING ENVIROMENT          |  |
|------------------------|--|-----------------------------|--|
| Temperature (°C):      |  | Max. temperature (°C):      |  |
| Relative humidity (%): |  | Min. temperature (°C):      |  |
| Time (h):              |  | Max. relative humidity (%): |  |
|                        |  | Min. relative humidity (%): |  |

| CODE          | SPECIMEN | BREAKING STRENGTH<br>(N/mm) | TENSILE ELONGATION<br>(%) |
|---------------|----------|-----------------------------|---------------------------|
| LT2625-08 (T) | 1        |                             |                           |
|               | 2        |                             |                           |
|               | 3        |                             |                           |
| AVG:          |          |                             |                           |

| CODE          | SPECIMEN | BREAKING STRENGTH<br>(N/mm) | TENSILE ELONGATION<br>(%) |
|---------------|----------|-----------------------------|---------------------------|
| LT2625-08 (L) | 1        |                             |                           |
|               | 2        |                             |                           |
|               | 3        |                             |                           |
| AVG:          |          |                             |                           |

| CODE          | SPECIMEN | BREAKING STRENGTH<br>(N/mm) | TENSILE ELONGATION<br>(%) |
|---------------|----------|-----------------------------|---------------------------|
| LT2784-06 (T) | 1        |                             |                           |
|               | 2        |                             |                           |
|               | 3        |                             |                           |
| AVG:          |          |                             |                           |

| CODE          | SPECIMEN | BREAKING STRENGTH<br>(N/mm) | TENSILE ELONGATION<br>(%) |
|---------------|----------|-----------------------------|---------------------------|
| LT2784-06 (L) | 1        |                             |                           |
|               | 2        |                             |                           |
|               | 3        |                             |                           |
| AVG:          |          |                             |                           |

| OBSERVATIONS |
|--------------|
|              |

**PHOTOGRAPHS**

DSQ-012 - REV 06 -

SQ-1056

4 de 4

# APPENDIX B

## PARTICIPANT RESULTS (TR #(7226)098-0352)

1 of 1

## (H) HARDLINE

## URGENT - NEXT THREE DAYS

Rev'd Dt : 08-Apr-2026 PM

Division : H

Complimentary Rush : N Internal Express : N

## HARDLINES

Due Date : 10 Apr 2026

Result Due : 10 Apr 2026

Report Due Date : 10 Apr 2026

Report No. : (7226)098-0352 04/08/2026 16:52:50



Sample# : 72260980352 H

Dept. Due Date : 10 Apr 26

Sample#s in series : (7226)098-0352

MCT Sample #s :

Description : CORRELATION

Content :

Submitter :

Client Contact :

Submitting For  
Program :

EU LOCAL-TURKEY

Buyer :

PO # :

Country of Origin :

Return Policy : NO RETURNS

Client Group : SAHIN, KUBRA

New Service : N/A

Sample Size :

Source Loc : TURKEY

Agent :

Additional PO #s :

Multi Ctry of Origin :

Pre-Test Program :

Online TRF # :

APPLY GCC : N

ReTest # :

Manufacturer :

Item # :

SKU :

Sub Category :

Tested Age Grade :

Use TG Test : N

Source # :

Invoice To :

Report To :

Product Type :

Sample Specific Info :

Submission Type : SUBMISSION

Actual Submission  
Type : SUBMISSION

Type Of Client :

Proforma Invoice : No

## Client Specific Data

Department Code :

VPPT Addendum Test Type :

## Test:

Tensile Strength Test : SASO ISO 17706 - 04/10

INV Comments :

Rpt Comments :

I/H Comments :

Care Method :

Fiber Count :

Age : Label :

Evaluate : No

At Request :

Appropriate :

Comp Login : OMUR SEFA OKSUZ

Manual Login : SO

Artan Numune  
QHSSE Bölümüne  
teslim edilmiştir.

22.04.26

Result : PASS/FAIL/DATA

Checked By : \_\_\_\_\_

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

ACC. Rep. : KUBRA SAHIN



## FOOTWEAR MASTER WORKSHEETS

(X) REGULAR ( ) EXPRESS ( ) EMERGENCY ( ) SAME DAY

|                           |                                    |            |       |
|---------------------------|------------------------------------|------------|-------|
| REPORT NO:                | 72260980352                        | DATE IN :  | 08.04 |
| GROUP:                    | CORRELATION                        | DUE DATE : | 10.04 |
| SAMPLE DESCRIPTION:       | ARTIFICIAL LEATHER SHINY RED PANEL |            |       |
| CONDITION (DATE & TIME) : |                                    |            |       |

|                 |                                        |            |  |
|-----------------|----------------------------------------|------------|--|
| Test Method     | Tensile Strength Test : SASO ISO 17706 |            |  |
| Test Conditions | Temperature :                          | Humidity : |  |

|              |                                                                                                                                                                                                                                                                                                                                                          |  |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Test Details | Sample Part: <input checked="" type="checkbox"/> Upper ; <input type="checkbox"/> Lining ; <input type="checkbox"/> Insock ; <input type="checkbox"/> Complete Upper Assy.<br>Sample Dimension: <input checked="" type="checkbox"/> 160mm x 25mm <input type="checkbox"/> 160mm x 35mm<br>Gauge Length: 100mm (+/-1)<br>Tensile testing speed: 100mm/min |  |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

|               |                                           |                                   |
|---------------|-------------------------------------------|-----------------------------------|
| Test Aparatus | Digital Caliper :<br>Steel Ruler : HL-166 | Tensile Testing Machine : CTL-847 |
|---------------|-------------------------------------------|-----------------------------------|

|                                             | 1     | 2     | 3    | Average | Req |
|---------------------------------------------|-------|-------|------|---------|-----|
| ALONG DIRECTION - BREAKING FORCE (N)        | 498   | 464   | 475  | 479*    | -   |
| ALONG DIRECTION - BREAKING STRENGTH (N/MM)  | 19.92 | 18.56 | 19   | 19.16   |     |
| ALONG DIRECTION - TENSILE ELONGATION (%)    | 41    | 40    | 41   | 41      |     |
| ACROSS DIRECTION - BREAKING FORCE (N)       | 142   | 145   | 143  | 144     | -   |
| ACROSS DIRECTION - BREAKING STRENGTH (N/MM) | 5.68  | 5.8   | 5.72 | 5.73    |     |
| ACROSS DIRECTION - TENSILE ELONGATION (%)   | 186   | 199   | 191  | 192     |     |

Test Prepared By: Date: Test Performed By: Date:

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Reporting Criteria | 1. Her ana yön için ortalama kopma mukavemeti (N/mm)<br>2. Her ana yön için ortalama uzama (%) |
|--------------------|------------------------------------------------------------------------------------------------|

|                    |  |
|--------------------|--|
| Lab. Notes/Remarks |  |
|--------------------|--|

ASD  
21.04.26  
BKC

|          |             |                     |  |
|----------|-------------|---------------------|--|
| TEST BY: | E.C. - D.K. | TEST CONTROLLED BY: |  |
| DATE :   | 21.04.26    | DATE :              |  |

Document No: ws.ftw.001  
 Issue Date: 02.05.2023  
 Rev. No. / Date: 11 / 09.02.2026

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Prepared by: Demet KARADENİZ  
 Controlled by: Aygül DURAN  
 Approved by: Hakkı BÜYÜKYAVUZ

## EN ISO 17706

### Tensile Strength and Elongation

Temperature: 23.0 °C  
 Humidity: 50 %  
 Gauge Length: N/F  
 Extn. at Load Target: N/F

#### Direction: Longitudinal

| Specimen ID | Extension at Target Load % | Breaking Force N | Tensile Strength MPa | Break Extension % |
|-------------|----------------------------|------------------|----------------------|-------------------|
| RED SAMPLE  | N/F                        | 498              | N/F                  | 41                |
| RED SAMPLE  | N/F                        | 464              | N/F                  | 40                |
| RED SAMPLE  | N/F                        | 475              | N/F                  | 41                |
| Average     | N/A                        | 479              | N/A                  | 41                |

#### Direction: Perpendicular

| Specimen ID | Extension at Target Load % | Breaking Force N | Tensile Strength MPa | Break Extension % |
|-------------|----------------------------|------------------|----------------------|-------------------|
| RED SAMPLE  | N/F                        | 142              | N/F                  | 186               |
| RED SAMPLE  | N/F                        | 145              | N/F                  | 199               |
| RED SAMPLE  | N/F                        | 143              | N/F                  | 191               |

Temperature: 23.0 °C  
 Humidity: 50 %  
 Gauge Length: N/F  
 Extn. at Load Target: N/F

| Specimen ID | Extension at Target Load % | Breaking Force N | Tensile Strength MPa | Break Extension % |
|-------------|----------------------------|------------------|----------------------|-------------------|
| Average     | N/A                        | 144              | N/A                  | 192               |





## FOOTWEAR MASTER WORKSHEETS

( X ) REGULAR ( ) EXPRESS ( ) EMERGENCY ( ) SAME DAY

|                           |                                |            |       |
|---------------------------|--------------------------------|------------|-------|
| REPORT NO:                | 72260980352                    | DATE IN :  | 08.04 |
| GROUP:                    | CORRELATION                    | DUE DATE : | 10.04 |
| SAMPLE DESCRIPTION:       | ARTIFICIAL LEATHER BLACK PANEL |            |       |
| CONDITION (DATE & TIME) : |                                |            |       |

|                 |                                        |
|-----------------|----------------------------------------|
| Test Method     | Tensile Strength Test : SASO ISO 17706 |
| Test Conditions | Temperature : Humidity :               |

|              |                                                                                                                                                                                                                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Details | Sample Part: <input checked="" type="checkbox"/> Upper ; <input type="checkbox"/> Lining ; <input type="checkbox"/> Insock ; <input type="checkbox"/> Complete Upper Assy.<br>Sample Dimension: <input checked="" type="checkbox"/> 160mm x 25mm <input type="checkbox"/> 160mm x 35mm<br>Gauge Length: 100mm (+/-1)<br>Tensile testing speed: 100mm/min |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|               |                                           |                                   |
|---------------|-------------------------------------------|-----------------------------------|
| Test Aparatus | Digital Caliper :<br>Steel Ruler : 40-166 | Tensile Testing Machine : C7C-847 |
|---------------|-------------------------------------------|-----------------------------------|

|                                             | 1     | 2    | 3     | Average | Req |
|---------------------------------------------|-------|------|-------|---------|-----|
| ALONG DIRECTION - BREAKING FORCE (N)        | 373   | 355  | 372   | 366     | -   |
| ALONG DIRECTION - BREAKING STRENGTH (N/MM)  | 14,92 | 14,2 | 14,88 | 14,66   |     |
| ALONG DIRECTION - TENSILE ELONGATION (%)    | 43    | 42   | 45    | 44      |     |
| ACROSS DIRECTION - BREAKING FORCE (N)       | 230   | 204  | 223   | 219     | -   |
| ACROSS DIRECTION - BREAKING STRENGTH (N/MM) | 9,2   | 8,16 | 8,92  | 8,76    |     |
| ACROSS DIRECTION - TENSILE ELONGATION (%)   | 142   | 132  | 139   | 138     |     |

Test Prepared By: Date: Test Performed By: Date:

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Reporting Criteria | 1. Her ana yön için ortalama kopma mukavemeti (N/mm)<br>2. Her ana yön için ortalama uzama (%) |
|--------------------|------------------------------------------------------------------------------------------------|

|                    |  |
|--------------------|--|
| Lab. Notes/Remarks |  |
|--------------------|--|

|          |           |                     |  |
|----------|-----------|---------------------|--|
| TEST BY: | EC - D.K. | TEST CONTROLLED BY: |  |
| DATE :   | 21.04.26  | DATE :              |  |

Document No: ws.ftw.001  
 Issue Date: 02.05.2023  
 Rev. No. / Date: 11 / 09.02.2026

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Prepared by: Demet KARADENİZ  
 Controlled by: Aygül DURAN  
 Approved by: Hakkı BÜYÜKYAVUZ

EN ISO 17706

Black

## Tensile Strength and Elongation

Temperature: 23.0 °C

Humidity: 50 %

Gauge Length: N/F

Extn. at Load Target: N/F

## Direction: Longitudinal

| Specimen ID | Extension at Target Load % | Breaking Force N | Tensile Strength MPa | Break Extension % |
|-------------|----------------------------|------------------|----------------------|-------------------|
| BLACK       | N/F                        | 373              | N/F                  | 43                |
| BLACK       | N/F                        | 355              | N/F                  | 42                |
| BLACK       | N/F                        | 372              | N/F                  | 45                |
| Average     | N/A                        | 366              | N/A                  | 44                |

## Direction: Perpendicular

| Specimen ID | Extension at Target Load % | Breaking Force N | Tensile Strength MPa | Break Extension % |
|-------------|----------------------------|------------------|----------------------|-------------------|
| BLACK       | N/F                        | 230              | N/F                  | 142               |
| BLACK       | N/F                        | 204              | N/F                  | 132               |
| BLACK       | N/F                        | 223              | N/F                  | 139               |

*Black*

Temperature: 23.0 °C  
 Humidity: 50 %  
 Gauge Length: N/F  
 Extn. at Load Target: N/F

| Specimen ID | Extension at Target Load % | Breaking Force N | Tensile Strength MPa | Break Extension % |
|-------------|----------------------------|------------------|----------------------|-------------------|
| Average     | N/A                        | 219              | N/A                  | 138               |

**----- END OF REPORT -----**