

# Mass Calibration Report

**METTLER TOLEDO**

Report No: MC2311060

## Mettler-Toledo (S) Pte Ltd

|           |                                           |
|-----------|-------------------------------------------|
| Address   | 1 Clementi Loop #02-03A, Singapore 129808 |
| Telephone | 65 6890 0011                              |
| Facsimile | 65 6890 0012                              |

## Customer Information

Name of customer : Mettler-Toledo Pac Rim AG Taiwan Branch (Switzerland)  
Customer Address : Jiu Zong Rd Neihu District 17 Lane 171 Sec 2 Taipei Taiwan  
R.O.C.11494 Taiwan

## Customer's Weight Information

Customer Weight Serial No/ ID : B442155338 / SVC-W060  
Customer's Weight Range : 1mg - 1kg  
Customer's Weight Class : E Class  
Customer Weight Manufacturer : Mettler-Toledo

## Calibration Location

METTLER TOLEDO Mass Calibration Laboratory  
1 Clementi Loop #02-03A, Singapore 129808

## Calibration Information

Calibration Date : 11-Nov-23  
Report Issue Date : 11-Nov-23  
Work Order No. : 220720349  
Equipment Type : Mass Comparator  
Manufacturer : Mettler Toledo

*Details of Mass Comparators can be found on Pg 2*

## Environment Conditions

Atmospheric Pressure, hPa : 1012.3  
Ambient Temperature, °C : 20.4  
Relative Humidity, %RH : 52.55



Cheng Yu Xiang  
Calibration Officer



Sun Xueyang  
Approved Signatory



Report No: MC2311060

**Method of Calibration**

The calibration procedure is performed according to Mettler-Toledo quality procedure reference no. QP-SVC-9-020 and using Standard mass set serial number C314945270 traceable to international standards with calibration report number C314945270.

The calibration was performed by comparison with the reference weights of the Calibration Laboratory in a controlled environment by using substitution weighing method (ABA) on a mass comparator. The conventional mass values were determined.

**Reference**

Conventional density of the weights : 8000 kg/m<sup>3</sup>  
 Mean air density : 1.20 kg/m<sup>3</sup>

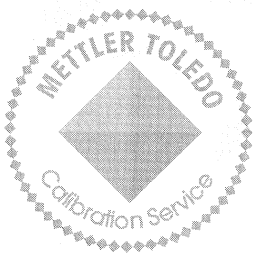
**Reference standards instrument :**

| Instrument                | OIML Class | Model      | Serial No. | Certificate No.          | Due Date  |
|---------------------------|------------|------------|------------|--------------------------|-----------|
| Mass comparator           | N/A        | XP205CDR   | B321363756 | SG0114-027-071723-ACC-SG | 17-Jul-24 |
| Mass comparator           | N/A        | XP2004S    | B323399156 | SG0036-046-071723-ACC-SG | 17-Jul-24 |
| Mass comparator           | N/A        | XP26003L   | B323399155 | SG0036-047-071723-ACC-SG | 17-Jul-24 |
| Mass comparator           | N/A        | XPE26C     | B502454763 | SG0036-048-071823-ACC-SG | 18-Jul-24 |
| Mass comparator           | N/A        | XPE505C    | B502465607 | SG0114-028-071723-ACC-SG | 17-Jul-24 |
| METTLER TOLEDO Weight Set | E1         | 1mg to 2kg | C314945270 | C314945270               | 19-Apr-24 |

The results reported herein have been performed in accordance with the laboratory's term of accreditation under Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme.

The reports shall not be reproduced except in full, unless the management representative of the accredited inspection body/ laboratory has given approval in writing.

  
 Cheng Yu Xiang  
 Calibration Officer



Report No. MC2311060

Results of Calibration

| Nominal Value | Marking /Serial No. | OIML Class | Conventional Mass Correction<br>g | Measured Conventional Mass<br>g | Expanded Uncertainty<br>g | OIML Tolerance<br>g | Within Class Tolerance?<br>(Y/N) |
|---------------|---------------------|------------|-----------------------------------|---------------------------------|---------------------------|---------------------|----------------------------------|
| 1mg           |                     | E2         | 0.000002                          | 0.001002                        | 0.000002                  | 0.000006            | Y                                |
| 2mg           |                     | E2         | 0.000002                          | 0.002002                        | 0.000002                  | 0.000006            | Y                                |
| 2mg           | *                   | E2         | 0.000003                          | 0.002003                        | 0.000002                  | 0.000006            | Y                                |
| 5mg           |                     | E2         | -0.000001                         | 0.004999                        | 0.000002                  | 0.000006            | Y                                |
| 10mg          |                     | E2         | 0.000004                          | 0.010004                        | 0.000003                  | 0.000008            | Y                                |
| 20mg          |                     | E2         | 0.000005                          | 0.020005                        | 0.000003                  | 0.000010            | Y                                |
| 20mg          | *                   | E2         | 0.000006                          | 0.020006                        | 0.000003                  | 0.000010            | Y                                |
| 50mg          |                     | E2         | -0.000002                         | 0.049998                        | 0.000004                  | 0.000012            | Y                                |
| 100mg         |                     | E2         | 0.000010                          | 0.100010                        | 0.000005                  | 0.000016            | Y                                |
| 200mg         |                     | E2         | 0.000006                          | 0.200006                        | 0.000007                  | 0.000020            | Y                                |
| 200mg         | *                   | E2         | 0.000007                          | 0.200007                        | 0.000007                  | 0.000020            | Y                                |
| 500mg         |                     | E2         | 0.000008                          | 0.500008                        | 0.000008                  | 0.000025            | Y                                |
| 1g            |                     | E2         | 0.000005                          | 1.000005                        | 0.000010                  | 0.000030            | Y                                |
| 2g            |                     | E2         | 0.000009                          | 2.000009                        | 0.000013                  | 0.000040            | Y                                |
| 2g            | *                   | E2         | 0.000008                          | 2.000008                        | 0.000013                  | 0.000040            | Y                                |
| 5g            |                     | E2         | -0.000007                         | 4.999993                        | 0.000017                  | 0.000050            | Y                                |
| 10g           |                     | E2         | 0.000021                          | 10.000021                       | 0.000020                  | 0.000060            | Y                                |
| 20g           |                     | E2         | -0.000025                         | 19.999975                       | 0.000027                  | 0.000080            | Y                                |
| 20g           | *                   | E2         | 0.000028                          | 20.000028                       | 0.000027                  | 0.000080            | Y                                |
| 50g           |                     | E2         | -0.000001                         | 49.999999                       | 0.000003                  | 0.000010            | Y                                |
| 100g          |                     | E2         | -0.000010                         | 99.999990                       | 0.000005                  | 0.000016            | Y                                |
| 200g          |                     | E2         | 0.000004                          | 200.000004                      | 0.000010                  | 0.000030            | Y                                |
| 200g          | *                   | E2         | 0.000009                          | 200.000009                      | 0.000010                  | 0.000030            | Y                                |
| 500g          |                     | E2         | 0.000022                          | 500.000022                      | 0.000027                  | 0.000080            | Y                                |
| 1kg           |                     | E2         | 0.000007                          | 1000.000007                     | 0.000005                  | 0.000016            | Y                                |

Note : Asterisk mark "\*" denotes weights with marking or bent tip.

The calibration results apply only on the above calibrated item and was found accurate as shown on date and place of calibration.

The associated expanded uncertainty of measurement were estimated at a level of confidence of approximately 95% with a coverage factor of k = 2.

The user should determine the suitability of the weight(s) for its intended use.

Cheng Yu Xiang  
Calibration Officer



# Schedule

Mettler-Toledo (S) Pte Ltd  
1 Clementi Loop  
#02-03A  
Singapore 129808

Certificate No. : LA-2005-0329-C  
Issue No. : 19  
Date : 06 November 2023  
Expiry of Certificate : 12 June 2026  
Page : 1 of 7

FIELD OF TESTING : Calibration and Measurement

| MEASURED QUANTITIES/<br>INSTRUMENT/ RANGE TO BE<br>CALIBRATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | METHOD            | CALIBRATION AND<br>MEASUREMENT<br>CAPABILITY (CMC*) |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------|------------|------------|------------|------------|-----------|----------|-----------|----------|------------|--------|------------|--------|------------|--------|--------------|---------|--------------|---------|--------------|--------|---------------|--------|---------------|-------|----------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>MECHANICAL</b></p> <p><b>1. Weighing Balances and Scales</b></p> <p>On-site calibration</p> <table> <thead> <tr> <th><u>Range</u></th> <th><u>Resolution</u></th> </tr> </thead> <tbody> <tr><td>0 to 2.1 g</td><td>0.000 1 mg</td></tr> <tr><td>0 to 5.1 g</td><td>0.000 1 mg</td></tr> <tr><td>0 to 22 g</td><td>0.001 mg</td></tr> <tr><td>0 to 52 g</td><td>0.001 mg</td></tr> <tr><td>0 to 220 g</td><td>0.1 mg</td></tr> <tr><td>0 to 220 g</td><td>0.01mg</td></tr> <tr><td>0 to 520 g</td><td>0.1 mg</td></tr> <tr><td>0 to 1 210 g</td><td>0.001 g</td></tr> <tr><td>0 to 2 300 g</td><td>0.001 g</td></tr> <tr><td>0 to 8 100 g</td><td>0.01 g</td></tr> <tr><td>0 to 10 100 g</td><td>0.01 g</td></tr> <tr><td>0 to 32 000 g</td><td>0.1 g</td></tr> <tr><td>0 to 150 000 g</td><td>0.1 g</td></tr> </tbody> </table> | <u>Range</u>      | <u>Resolution</u>                                   | 0 to 2.1 g | 0.000 1 mg | 0 to 5.1 g | 0.000 1 mg | 0 to 22 g | 0.001 mg | 0 to 52 g | 0.001 mg | 0 to 220 g | 0.1 mg | 0 to 220 g | 0.01mg | 0 to 520 g | 0.1 mg | 0 to 1 210 g | 0.001 g | 0 to 2 300 g | 0.001 g | 0 to 8 100 g | 0.01 g | 0 to 10 100 g | 0.01 g | 0 to 32 000 g | 0.1 g | 0 to 150 000 g | 0.1 g | <p>QP-SVC-9-011, Rev.:18<br/>27 May 2019</p> <p>i) Off-center errors<br/>ii) Hysteresis<br/>iii) Repeatability<br/>iv) Accuracy and Linearity</p> <p><u>Environmental Conditions:</u><br/>Temperature : 18 °C to 29 °C<br/>Relative Humidity : 45 % to 73 %<br/>Air pressure: 1005 hPa to 1030 hPa</p> | <p>0.030 mg<br/>0.035 mg<br/>0.06 mg<br/>0.065 mg<br/>0.2 mg<br/>0.16 mg<br/>0.5 mg<br/>0.002 g<br/>0.006 g<br/>0.02 g<br/>0.02 g<br/>0.1 g<br/>0.4 g</p> |
| <u>Range</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>Resolution</u> |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 2.1 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000 1 mg        |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 5.1 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000 1 mg        |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 22 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.001 mg          |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 52 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.001 mg          |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 220 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.1 mg            |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 220 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.01mg            |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 520 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.1 mg            |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 1 210 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.001 g           |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 2 300 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.001 g           |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 8 100 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.01 g            |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 10 100 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.01 g            |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 32 000 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.1 g             |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |
| 0 to 150 000 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.1 g             |                                                     |            |            |            |            |           |          |           |          |            |        |            |        |            |        |              |         |              |         |              |        |               |        |               |       |                |       |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |

# Schedule



Certificate No. : LA-2005-0329-C

Issue No. : 19

Date : 06 November 2023

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| MEASURED QUANTITIES/<br>INSTRUMENT/ RANGE TO BE<br>CALIBRATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | METHOD     | CALIBRATION AND<br>MEASUREMENT<br>CAPABILITY (CMC*) |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------|--------|------------|-------------------|------------|--------------------|------------|---------------------|------------|---------------------|------------|------------------|------------|---------------|------------|---------------|------------|---------------|------------|----------------|-----------|-----------------|-----------|-----------------|-----------|------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|---------|--------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|------|-----------------|------|-------------------|------|-------------------|------|-----------------|---------|-----------------|---------|------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>2. Weighing Balances and Scales (ACC)</b><br/>On-site calibration</p> <p><b>2A. Balance</b></p> <table border="1"> <thead> <tr> <th>Range</th> <th>Resolution</th> </tr> </thead> <tbody> <tr><td>≤ 20mg</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 20mg ... ≤ 50mg</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 50mg ... ≤ 100mg</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 100mg ... ≤ 200mg</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 200mg ... ≤ 500mg</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 500mg ... ≤ 1g</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 1g ... ≤ 2g</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 2g ... ≤ 5g</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 5g ... ≤ 6g</td><td>0.000 1 mg</td></tr> <tr><td>&gt; 6g ... ≤ 10g</td><td>0.00 1 mg</td></tr> <tr><td>&gt; 10g ... ≤ 20g</td><td>0.00 1 mg</td></tr> <tr><td>&gt; 20g ... ≤ 50g</td><td>0.00 1 mg</td></tr> <tr><td>&gt; 50g ... ≤ 100g</td><td>0.0 1 mg</td></tr> <tr><td>&gt; 100g ... ≤ 150g</td><td>0.0 1 mg</td></tr> <tr><td>&gt; 150g ... ≤ 200g</td><td>0.0 1 mg</td></tr> <tr><td>&gt; 200g ... ≤ 300g</td><td>0.0 1 mg</td></tr> <tr><td>&gt; 300g ... ≤ 400g</td><td>0.0 1 mg</td></tr> <tr><td>&gt; 400g ... ≤ 500g</td><td>0.0 1 mg</td></tr> <tr><td>&gt; 500g ... ≤ 700g</td><td>0. 1 mg</td></tr> <tr><td>&gt; 700g ... ≤ 1000g</td><td>0. 1 mg</td></tr> <tr><td>&gt; 1kg ... ≤ 1.5kg</td><td>0. 1 mg</td></tr> <tr><td>&gt; 1.5kg ... ≤ 2kg</td><td>0. 1 mg</td></tr> <tr><td>&gt; 2kg ... ≤ 2.3kg</td><td>0. 1 mg</td></tr> <tr><td>&gt; 2.3kg ... ≤ 3kg</td><td>1 mg</td></tr> <tr><td>&gt; 3kg ... ≤ 4kg</td><td>1 mg</td></tr> <tr><td>&gt; 4kg ... ≤ 5.1kg</td><td>1 mg</td></tr> <tr><td>&gt; 5.1kg ... ≤ 6kg</td><td>1 mg</td></tr> <tr><td>&gt; 6kg ... ≤ 7kg</td><td>0.0 1 g</td></tr> <tr><td>&gt; 7kg ... ≤ 8kg</td><td>0.0 1 g</td></tr> <tr><td>&gt; 8kg ... ≤ 10kg</td><td>0.0 1 g</td></tr> </tbody> </table> | Range      | Resolution                                          | ≤ 20mg | 0.000 1 mg | > 20mg ... ≤ 50mg | 0.000 1 mg | > 50mg ... ≤ 100mg | 0.000 1 mg | > 100mg ... ≤ 200mg | 0.000 1 mg | > 200mg ... ≤ 500mg | 0.000 1 mg | > 500mg ... ≤ 1g | 0.000 1 mg | > 1g ... ≤ 2g | 0.000 1 mg | > 2g ... ≤ 5g | 0.000 1 mg | > 5g ... ≤ 6g | 0.000 1 mg | > 6g ... ≤ 10g | 0.00 1 mg | > 10g ... ≤ 20g | 0.00 1 mg | > 20g ... ≤ 50g | 0.00 1 mg | > 50g ... ≤ 100g | 0.0 1 mg | > 100g ... ≤ 150g | 0.0 1 mg | > 150g ... ≤ 200g | 0.0 1 mg | > 200g ... ≤ 300g | 0.0 1 mg | > 300g ... ≤ 400g | 0.0 1 mg | > 400g ... ≤ 500g | 0.0 1 mg | > 500g ... ≤ 700g | 0. 1 mg | > 700g ... ≤ 1000g | 0. 1 mg | > 1kg ... ≤ 1.5kg | 0. 1 mg | > 1.5kg ... ≤ 2kg | 0. 1 mg | > 2kg ... ≤ 2.3kg | 0. 1 mg | > 2.3kg ... ≤ 3kg | 1 mg | > 3kg ... ≤ 4kg | 1 mg | > 4kg ... ≤ 5.1kg | 1 mg | > 5.1kg ... ≤ 6kg | 1 mg | > 6kg ... ≤ 7kg | 0.0 1 g | > 7kg ... ≤ 8kg | 0.0 1 g | > 8kg ... ≤ 10kg | 0.0 1 g | <p>QP-SVC-9-024, Rev.:03<br/>13 September 2019<br/>(Euramet Cg-18)</p> <p><u>Uncertainty contributions:</u></p> <p>i) Rounding error at load<br/>ii) Rounding error at no load<br/>iii) Error due to eccentricity<br/>iv) Error due to repeatability<br/>v) Uncertainty of reference mass<br/>vi) Correction of air buoyancy<br/>vii) Correction of drift of weights<br/>viii) Correction of convection</p> | <p>0.0019 mg<br/>0.0025 mg<br/>0.0030 mg<br/>0.0036 mg<br/>0.0048 mg<br/>0.0059 mg<br/>0.0071 mg<br/>0.0094 mg<br/>0.0150 mg<br/>0.020 mg<br/>0.030 mg<br/>0.062 mg<br/>0.14 mg<br/>0.22 mg<br/>0.25 mg<br/>0.38 mg<br/>0.48 mg<br/>0.61 mg<br/>2.1 mg<br/>3.0 mg<br/>4.5 mg<br/>5.9 mg<br/>7.0 mg<br/>9 mg<br/>12 mg<br/>15 mg<br/>25 mg<br/>0.027 g<br/>0.029 g<br/>0.035 g</p> |
| Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Resolution |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
| ≤ 20mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000 1 mg |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
| > 20mg ... ≤ 50mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000 1 mg |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
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| > 10g ... ≤ 20g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.00 1 mg  |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
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| > 100g ... ≤ 150g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0 1 mg   |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
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| > 2kg ... ≤ 2.3kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0. 1 mg    |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
| > 2.3kg ... ≤ 3kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 mg       |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
| > 3kg ... ≤ 4kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 mg       |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
| > 4kg ... ≤ 5.1kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 mg       |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
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| > 6kg ... ≤ 7kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0 1 g    |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
| > 7kg ... ≤ 8kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0 1 g    |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
| > 8kg ... ≤ 10kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0 1 g    |                                                     |        |            |                   |            |                    |            |                     |            |                     |            |                  |            |               |            |               |            |               |            |                |           |                 |           |                 |           |                  |          |                   |          |                   |          |                   |          |                   |          |                   |          |                   |         |                    |         |                   |         |                   |         |                   |         |                   |      |                 |      |                   |      |                   |      |                 |         |                 |         |                  |         |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |

# Schedule



Certificate No. : LA-2005-0329-C

Issue No. : 19

Date : 06 November 2023

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| MEASURED QUANTITIES/<br>INSTRUMENT/ RANGE TO BE<br>CALIBRATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | METHOD                                        | CALIBRATION AND<br>MEASUREMENT<br>CAPABILITY (CMC*) |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|---------------|-------------------|----------------|-----------|-------------------|----------|-----------------|-------------------|------------------|----------|-------------------|----------|-------------------|-------------------|--------------------|---------|---------------------|---------|---------------------|-------------------|-----------------------|--------|-------------------------|--------|-------|---------------------|-----|-------|---------------------|------|------|----------------------|------|-------|--|--|
| <p><b>2B. Scale</b></p> <table border="0"> <thead> <tr> <th><u>Range</u></th> <th><u>Resolution</u></th> <th></th> </tr> </thead> <tbody> <tr><td>&gt; 10kg ... ≤ 15kg</td><td>0.1 g</td><td>0.19 g</td></tr> <tr><td>&gt; 15kg ... ≤ 20kg</td><td>0.1 g</td><td>0.19 g</td></tr> <tr><td>&gt; 20kg ... ≤ 30kg</td><td>0.1 g</td><td>0.20 g</td></tr> <tr><td>&gt; 30kg ... ≤ 40kg</td><td>0.1 g</td><td>0.25 g</td></tr> <tr><td>&gt; 40kg ... ≤ 50kg</td><td>0.1 g</td><td>0.26 g</td></tr> <tr><td>&gt; 50kg ... ≤ 60kg</td><td>0.1 g</td><td>0.28 g</td></tr> <tr><td>&gt; 60kg ... ≤ 64kg</td><td>0.1 g</td><td>0.29 g</td></tr> <tr><td>&gt; 64kg ... ≤ 150kg</td><td>1 g</td><td>1.6 g</td></tr> <tr><td>&gt; 150kg ... ≤ 300kg</td><td>1 g</td><td>2.8 g</td></tr> <tr><td>&gt; 300kg ... ≤ 600kg</td><td>10 g</td><td>38 g</td></tr> <tr><td>&gt; 600kg ... ≤ 1000kg</td><td>10 g</td><td>180 g</td></tr> </tbody> </table> | <u>Range</u>                                  | <u>Resolution</u>                                   |               | > 10kg ... ≤ 15kg | 0.1 g          | 0.19 g    | > 15kg ... ≤ 20kg | 0.1 g    | 0.19 g          | > 20kg ... ≤ 30kg | 0.1 g            | 0.20 g   | > 30kg ... ≤ 40kg | 0.1 g    | 0.25 g            | > 40kg ... ≤ 50kg | 0.1 g              | 0.26 g  | > 50kg ... ≤ 60kg   | 0.1 g   | 0.28 g              | > 60kg ... ≤ 64kg | 0.1 g                 | 0.29 g | > 64kg ... ≤ 150kg      | 1 g    | 1.6 g | > 150kg ... ≤ 300kg | 1 g | 2.8 g | > 300kg ... ≤ 600kg | 10 g | 38 g | > 600kg ... ≤ 1000kg | 10 g | 180 g |  |  |
| <u>Range</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>Resolution</u>                             |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 10kg ... ≤ 15kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.1 g                                         | 0.19 g                                              |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 15kg ... ≤ 20kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.1 g                                         | 0.19 g                                              |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 20kg ... ≤ 30kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.1 g                                         | 0.20 g                                              |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 30kg ... ≤ 40kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.1 g                                         | 0.25 g                                              |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 40kg ... ≤ 50kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.1 g                                         | 0.26 g                                              |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 50kg ... ≤ 60kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.1 g                                         | 0.28 g                                              |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 60kg ... ≤ 64kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.1 g                                         | 0.29 g                                              |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 64kg ... ≤ 150kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 g                                           | 1.6 g                                               |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 150kg ... ≤ 300kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 g                                           | 2.8 g                                               |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 300kg ... ≤ 600kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 g                                          | 38 g                                                |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| > 600kg ... ≤ 1000kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10 g                                          | 180 g                                               |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| <p><b>3. Piston Operated Devices (Ex)</b></p> <p>Accuracy and Precision Test<br/>In-house only</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>QP-SVC-9-018, Rev.: 13<br/>09 May 2022</p> |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| <p><b>3A</b> Single &amp; Multi-Channel<br/>Air Displacement (Type A), (Ex)</p> <table border="0"> <thead> <tr> <th><u>Range</u></th> <th></th> </tr> </thead> <tbody> <tr><td>0uL &lt; V ≤ 2uL</td><td>0.0044 µl</td></tr> <tr><td>2uL &lt; V ≤ 10uL</td><td>0.0057 µl</td></tr> <tr><td>10uL &lt; V ≤ 20uL</td><td>0.016 µl</td></tr> <tr><td>20uL &lt; V ≤ 50uL</td><td>0.027 µl</td></tr> <tr><td>50uL &lt; V ≤ 100uL</td><td>0.034 µl</td></tr> <tr><td>100uL &lt; V ≤ 200uL</td><td>0.082 µl</td></tr> <tr><td>200uL &lt; V ≤ 300uL</td><td>0.085 µl</td></tr> <tr><td>300uL &lt; V ≤ 1000uL</td><td>0.16 µl</td></tr> <tr><td>1000uL &lt; V ≤ 1200uL</td><td>0.34 µl</td></tr> <tr><td>1200uL &lt; V ≤ 2000uL</td><td>0.67 µl</td></tr> <tr><td>2000uL &lt; V ≤ 10 000uL</td><td>1.1 µl</td></tr> <tr><td>10 000uL &lt; V ≤ 20 000uL</td><td>4.6 uL</td></tr> </tbody> </table>                                               | <u>Range</u>                                  |                                                     | 0uL < V ≤ 2uL | 0.0044 µl         | 2uL < V ≤ 10uL | 0.0057 µl | 10uL < V ≤ 20uL   | 0.016 µl | 20uL < V ≤ 50uL | 0.027 µl          | 50uL < V ≤ 100uL | 0.034 µl | 100uL < V ≤ 200uL | 0.082 µl | 200uL < V ≤ 300uL | 0.085 µl          | 300uL < V ≤ 1000uL | 0.16 µl | 1000uL < V ≤ 1200uL | 0.34 µl | 1200uL < V ≤ 2000uL | 0.67 µl           | 2000uL < V ≤ 10 000uL | 1.1 µl | 10 000uL < V ≤ 20 000uL | 4.6 uL |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| <u>Range</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 0uL < V ≤ 2uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0044 µl                                     |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 2uL < V ≤ 10uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0057 µl                                     |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 10uL < V ≤ 20uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.016 µl                                      |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 20uL < V ≤ 50uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.027 µl                                      |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 50uL < V ≤ 100uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.034 µl                                      |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 100uL < V ≤ 200uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.082 µl                                      |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 200uL < V ≤ 300uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.085 µl                                      |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 300uL < V ≤ 1000uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.16 µl                                       |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 1000uL < V ≤ 1200uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.34 µl                                       |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 1200uL < V ≤ 2000uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.67 µl                                       |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 2000uL < V ≤ 10 000uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.1 µl                                        |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |
| 10 000uL < V ≤ 20 000uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.6 uL                                        |                                                     |               |                   |                |           |                   |          |                 |                   |                  |          |                   |          |                   |                   |                    |         |                     |         |                     |                   |                       |        |                         |        |       |                     |     |       |                     |      |      |                      |      |       |  |  |

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| MEASURED QUANTITIES/<br>INSTRUMENT/ RANGE TO BE<br>CALIBRATED                                                                                                                                                                                                                                          | METHOD | CALIBRATION AND<br>MEASUREMENT<br>CAPABILITY (CMC*)                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------|
| <p>3B Single Channel, Positive Displacement Type D (Ex)<br/><u>Range</u><br/>0uL &lt; V ≤ 10uL<br/>10uL &lt; V ≤ 25uL<br/>25uL &lt; V ≤ 50uL<br/>50uL &lt; V ≤ 100uL<br/>100uL &lt; V ≤ 250uL<br/>250uL &lt; V ≤ 500uL<br/>500uL &lt; V ≤ 1000uL</p>                                                   |        | <p>0.0019 uL<br/>0.018 uL<br/>0.027 uL<br/>0.039 uL<br/>0.098uL<br/>0.17 uL<br/>0.20 uL</p>                      |
| <p>3C Multiple Type Delivery Systems (Ex)<br/><u>Range</u><br/>0uL &lt; V ≤ 2uL<br/>2uL &lt; V ≤ 10uL<br/>10uL &lt; V ≤ 20uL<br/>20uL &lt; V ≤ 100uL<br/>100uL &lt; V ≤ 200uL<br/>200uL &lt; V ≤ 1 000uL<br/>1 000uL &lt; V ≤ 5 000uL<br/>5 000uL &lt; V ≤ 10 000uL<br/>10 000uL &lt; V ≤ 50 000uL</p> |        | <p>0.0087 uL<br/>0.017 uL<br/>0.018 uL<br/>0.023 uL<br/>0.11 uL<br/>0.19 uL<br/>0.48 uL<br/>0.92<br/>4.70 uL</p> |
| <p>3D Single Channel, Repetitive (Ex)<br/><u>Range</u><br/>0uL &lt; V ≤ 10uL<br/>10uL &lt; V ≤ 20uL<br/>20uL &lt; V ≤ 100uL<br/>100uL &lt; V ≤ 200uL<br/>200uL &lt; V ≤ 1 000uL<br/>1 000uL &lt; V ≤ 2 000uL</p>                                                                                       |        | <p>0.0019 uL<br/>0.0023 uL<br/>0.0077 uL<br/>0.023 uL<br/>0.091 uL<br/>0.18 uL</p>                               |
| <p>3E Bottle Top Dispenser (Ex)<br/><u>Range</u><br/>0mL &lt; V ≤ 5mL<br/>5mL &lt; V ≤ 10mL<br/>10mL &lt; V ≤ 12.5mL<br/>12.5mL &lt; V ≤ 25mL<br/>25mL &lt; V ≤ 50mL<br/>50mL &lt; V ≤ 100mL</p>                                                                                                       |        | <p>1.9 uL<br/>2.1 uL<br/>7.1 uL<br/>10 uL<br/>13 uL<br/>17 uL</p>                                                |
| <p>3F Bottle Top Burette (Ex)<br/><u>Range</u><br/>0mL &lt; V ≤ 25mL</p>                                                                                                                                                                                                                               |        | <p>2.4uL</p>                                                                                                     |

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| MEASURED QUANTITIES/<br>INSTRUMENT/ RANGE TO BE<br>CALIBRATED                                                                                                                                                                                                                                               | METHOD                                       | CALIBRATION AND<br>MEASUREMENT<br>CAPABILITY (CMC*)                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>4. Standard Weights (Lab)<br/>(Class F and below)</b><br>In-house calibration<br><br><u>Range</u><br><br>1 mg<br>2 mg<br>5 mg<br>10 mg<br>20 mg<br>50 mg<br>100 mg<br>200 mg<br>500 mg<br>1 g<br>2 g<br>5 g<br>10 g<br>20 g<br>50 g<br>100 g<br>200 g<br>500 g<br>1 kg<br>2 kg<br>5 kg<br>10 kg<br>20 kg | QP-SVC-9-020, Rev.: 07,<br>19 September 2019 | 0.003 mg<br>0.003 mg<br>0.003 mg<br>0.003 mg<br>0.004 mg<br>0.005 mg<br>0.007 mg<br>0.007 mg<br>0.01 mg<br>0.02 mg<br>0.02 mg<br>0.02 mg<br>0.03 mg<br>0.04 mg<br>0.05 mg<br>0.06 mg<br>0.11 mg<br>0.3 mg<br>0.6 mg<br>0.7 mg<br>3 mg<br>4 mg<br>6 mg |



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| MEASURED QUANTITIES/<br>INSTRUMENT/ RANGE TO BE<br>CALIBRATED                                                                                                                                                                                                             | METHOD                                       | CALIBRATION AND<br>MEASUREMENT<br>CAPABILITY (CMC*)                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5. Standard Weights (Lab)<br/>(Class E2 ONLY)</b><br>In-house calibration<br><br><u>Range</u><br>1 mg<br>2 mg<br>5 mg<br>10 mg<br>20 mg<br>50 mg<br>100 mg<br>200 mg<br>500 mg<br>1 g<br>2 g<br>5 g<br>10 g<br>20 g<br>50 g<br>100 g<br>200 g<br>500 g<br>1 kg<br>2 kg | QP-SVC-9-020, Rev.: 07,<br>19 September 2019 | 0.001 mg<br>0.002 mg<br>0.002 mg<br>0.002 mg<br>0.002 mg<br>0.002 mg<br>0.002 mg<br>0.003 mg<br>0.004 mg<br>0.005 mg<br>0.006 mg<br>0.010 mg<br>0.016 mg<br>0.019 mg<br>0.020 mg<br>0.02 mg<br>0.05 mg<br>0.13 mg<br>0.30 mg<br>0.50 mg |
| <b>6. Standard Weights (IND)<br/>(Class M2 and below)</b><br>In-house calibration<br><br><u>Range</u><br>1000 kg                                                                                                                                                          | WI-SVC-MAS-001, Rev.:00<br>02 August 2016    | 0.06 kg                                                                                                                                                                                                                                 |

\*CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95%

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## Approved Signatories:

Mr Lee Yong Yee · For all items  
Mr Chua Wen Feng · For all items  
Mr James Ng · For items 1 & 2B  
Mr Antonius Christian · For items 1 & 2A  
Mr Sun Xueyang · For items 3, 4, 5 & 6

## Note:

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid calibration results. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.