

# Schedule

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Certificate No. : LA-2010-0475-C

Issue No. : 9

Date : 26 May 2021

Page : 1 of 5

FIELD OF TESTING : Calibration and Measurement

MEASURED QUANTITIES/ INSTRUMENTS CALIBRATED/ RANGE OF MEASUREMENT	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
A. TEMPERATURE		
1. Temperature Enclosure (site) (Furnace, Oven, Incubators, Freezer, Autoclaves, Sterilizers Fridge, Water Bath) -80 °C to -40 °C >-40 °C to 180 °C >180°C to 250°C >250 °C to 500 °C >500 °C to 600 °C >600 °C to 800 °C >800 °C to 1 000 °C >1 000 °C to 1 200 °C	ZGTP 01, Version 9	0.8 °C 0.7°C 0.8°C 1.8 °C 2.5 °C 2.8 °C 2.9 °C 3.2 °C
2. Temperature Indicator/controller by Simulation (site/in-house)  Type K -100 °C to 1 200 °C  Type T -80 °C to 250 °C	ZGTP 02, Version 7	0.5 °C  0.6 °C

# Schedule



Certificate No. : LA-2010-0475-C

Issue No. : 9

Date : 26 May 2021

Page : 2 of 5

MEASURED QUANTITIES/ INSTRUMENTS CALIBRATED/ RANGE OF MEASUREMENT	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
3 Humidity/Climatic/Environmental Chambers  5 °C to 70 °C (10 to 95) % relative humidity	ZGTP 03, Version 6	0.8 °C (2.6 to 5.8) % relative humidity
4 Temperature Indicator/display	ZGTP 05, Version 3	
a. With RTD/Thermistor sensor/probe -20 °C > -20 °C to 50 °C >50 °C to 100 °C >100 °C to 150 °C >150 °C to 175 °C >175 °C to 250 °C >250 °C to 375 °C >375 °C to 400 °C		0.15 °C 0.23 °C 0.32 °C 0.70 °C 0.74 °C 0.88 °C 1.3 °C 1.6 °C
b. With Thermocouple sensor/probe -20 °C > -20 °C to 50 °C >50 °C to 100 °C >100 °C to 150 °C >150 °C to 175 °C >175 °C to 250 °C >250 °C to 375 °C >375 °C to 400 °C		0.15 °C 0.25 °C 0.37 °C 0.74 °C 0.80 °C 0.98 °C 1.5 °C 1.8 °C

# Schedule



Certificate No. : LA-2010-0475-C

Issue No. : 9

Date : 26 May 2021

Page : 3 of 5

MEASURED QUANTITIES/ INSTRUMENTS CALIBRATED/ RANGE OF MEASUREMENT	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
<p><b>B. MECHANICAL</b></p> <p>1 Electronic Balance/Weighing Scale</p> <p>1mg to 2mg</p> <p>&gt;2mg to &lt;5mg</p> <p>5mg</p> <p>&gt;5mg to 7mg</p> <p>&gt;7mg to &lt;10mg</p> <p>10mg</p> <p>&gt;10mg to 20mg</p> <p>&gt;20mg to 30mg</p> <p>&gt;30mg to &lt;50mg</p> <p>50mg</p> <p>&gt;50mg to 60mg</p> <p>&gt;60mg to 70mg</p> <p>&gt;70mg to 80mg</p> <p>&gt;80mg to &lt;100mg</p> <p>100mg</p> <p>&gt;100mg to 200mg</p> <p>&gt;200mg to 300mg</p> <p>&gt;300mg to &lt;500mg</p> <p>500mg</p> <p>&gt;500mg to 600mg</p> <p>&gt;600mg to 700mg</p> <p>&gt;700mg to 800mg</p> <p>&gt;800mg to &lt;1g</p> <p>1g</p> <p>&gt;1g to 2g</p> <p>&gt;2g to 3g</p> <p>&gt;3g to &lt;5g</p> <p>5g</p> <p>&gt;5g to 6g</p> <p>&gt;6g to 7g</p> <p>&gt;7g to 8g</p> <p>&gt;8g to &lt;10g</p> <p>10g</p> <p>&gt;10g to 20g</p> <p>&gt;20g to 30g</p> <p>&gt;30g to &lt;50g</p> <p>50g</p>	<p>ZGTP 04, Version 5</p>	<p>0.011mg</p> <p>0.015mg</p> <p>0.011mg</p> <p>0.015mg</p> <p>0.020mg</p> <p>0.012mg</p> <p>0.013mg</p> <p>0.020mg</p> <p>0.022mg</p> <p>0.015mg</p> <p>0.022mg</p> <p>0.023mg</p> <p>0.031mg</p> <p>0.033mg</p> <p>0.018mg</p> <p>0.022mg</p> <p>0.037mg</p> <p>0.041mg</p> <p>0.026mg</p> <p>0.042mg</p> <p>0.046mg</p> <p>0.062mg</p> <p>0.066mg</p> <p>0.031mg</p> <p>0.041mg</p> <p>0.070mg</p> <p>0.080mg</p> <p>0.051mg</p> <p>0.08mg</p> <p>0.09mg</p> <p>0.12mg</p> <p>0.13mg</p> <p>0.06mg</p> <p>0.08mg</p> <p>0.14mg</p> <p>0.16mg</p> <p>0.10mg</p>

# Schedule



Certificate No. : LA-2010-0475-C

Issue No. : 9

Date : 26 May 2021

Page : 4 of 5

MEASURED QUANTITIES/ INSTRUMENTS CALIBRATED/ RANGE OF MEASUREMENT	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
>50g to 60g		0.16mg
>60g to 70g		0.18mg
>70g to 80g		0.24mg
>80g to <100g		0.26mg
100g		0.16mg
>100g to 110g		0.22mg
>110g to 120g		0.24mg
>120g to 130g		0.30mg
>130g to <150g		0.32mg
150g		0.26mg
>150g to 160g		0.32mg
>160g to 170g		0.34mg
>170g to 180g		0.40mg
>180g to <200g		0.42mg
200g		0.30mg
>200g to 210g		0.36mg
>210g to 220g		0.38mg
>220g to 230g		0.4mg
>230g to <250g		0.5mg
250g		0.4mg
>250g to 280g		0.5mg
>280g to <300g		0.6mg
300g to 320g		0.5mg
>320g to 360g		0.6mg
>360g to <400g		0.7mg
400g		0.6mg
>400g to 405g		0.7mg
>405g to 700g		0.001g
>700g to 1000g		0.002g
>1000g to 6200g		0.01g
>6200g to <10kg		0.02g
10kg		0.03g
>10kg to 35kg		0.1g

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

# Schedule



Certificate No. : LA-2010-0475-C

Issue No. : 9

Date : 26 May 2021

Page : 5 of 5

Approved signatory :

Mr Zack Neo Tiau Hon

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 calibrations. 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.