

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>0115</b>  Accredited to <b>ISO/IEC 17025:2017</b>	<b>Lion Laboratories Limited</b>  Issue No: 017    Issue date: 27 August 2021	
	<b>Calibration Laboratory</b> Ty Verlon Industrial Estate Barry South Glamorgan Wales CF63 2BE	<b>Contact: Mr A Holloway</b> Tel: +44 (0)1446-724500 Fax: +44 (0)1446-724501 E-Mail: <a href="mailto:aholloway@lionlaboratories.com">aholloway@lionlaboratories.com</a> Website: <a href="http://www.lionlaboratories.com">www.lionlaboratories.com</a>

**Calibration performed by the Organisations at the locations specified below**

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Calibration Laboratory Ty Verlon Industrial Estate Barry South Glamorgan Wales CF63 2BE	<b>Local contact</b> Mr A Holloway	Evidential Breath Testing Instruments  A

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customers Sites	<b>Contact: Mr A Holloway</b>	Evidential Breath Testing Instruments  B



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
CALIBRATION OF EVIDENTIAL BREATH TESTING INSTRUMENTS  <b>Lion Intoxilyzer 6000</b>	0 µg to 200 µg ethanol/100 ml simulated breath	1.0 µg ethanol/100 ml simulated breath	Evidential breath testing instruments manufactured by Lion Laboratories Ltd approved by the Home Secretary  Confirmation of compliance with Home Office Quality Framework Document	A
	Effect of interfering substances Acetone 15 µg/100 ml Methanol 4 µg/100 ml Methyl ethyl ketone 30 µg/100 ml Toluene 25 µg/100 ml		Confirmation of compliance with Home Office Quality Framework Document	A
	0 µg to 140 µg ethanol/100 ml simulated breath	1.0 µg ethanol/100 ml simulated breath	Confirmation of compliance with Home Office Quality Framework Document	A & B
	Effect of interfering substances Acetone 15 µg/100 ml Methanol 4 µg/100 ml		Confirmation of compliance with Home Office Quality Framework Document	A & B
CAMIC DATAMASTER	0 µg ethanol to 200 µg ethanol/ 100 ml simulated breath	1.0 µg ethanol/100 ml simulated breath	Evidential breath testing instruments manufactured by CAMIC Ltd approved by the Home Secretary  Confirmation of compliance with Home Office Quality Framework Document	A
	Effect of interfering substances Acetone 15 µg/100 ml Methanol 4 µg/100 ml Methyl ethyl ketone 30 µg/100 ml Toluene 25 µg/100 ml		Confirmation of compliance with Home Office Quality Framework Document	A
	0 µg to 140 µg ethanol/100 ml simulated breath	1.0 µg ethanol/100 ml simulated breath	Confirmation of compliance with Home Office Quality Framework Document	A & B
	Effect of interfering substances Acetone 15 µg/100 ml Methanol 4 µg/100 ml		Confirmation of compliance with Home Office Quality Framework Document	A & B
END				



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## Appendix - Calibration and Measurement Capabilities

### Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

### Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of  $k = 2$ . An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

### Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand. Thus, for example, a measurement uncertainty of 1.5 % means  $1.5 \times 0.01 \times q$ , where  $q$  is the quantity value.

The notation  $Q[a, b]$  stands for the root-sum-square of the terms between brackets:  $Q[a, b] = [a^2 + b^2]^{1/2}$