

NO: SAMM 1024

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LABORATORY LOCATION:  
(PERMANENT LABORATORY)

LIGHTHOUSE WORLDWIDE SOLUTIONS (M) SDN. BHD.  
NO. 18-32-A1 & A2, GURNEY TOWER  
PERSIARAN GURNEY  
10250 GEORGETOWN  
PULAU PINANG  
MALAYSIA

FIELDS OF CALIBRATION:

OPTICAL &amp; PHOTOMETRIC

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment 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 test results and 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 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

\* The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of  $k=2$  unless stated otherwise.

## SCOPE OF CALIBRATION: OPTICAL &amp; PHOTOMETRIC

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ( $\pm$ )*	Remarks
Airborne Particle Counter by Light Scattering Technique	<u>Airborne Particle Size:</u>		Calibration in accordance to ISO 21501- 4:2007
	0.2 $\mu\text{m}$	0.0051 $\mu\text{m}$	
	0.3 $\mu\text{m}$	0.0061 $\mu\text{m}$	
	0.5 $\mu\text{m}$	0.011 $\mu\text{m}$	
	0.7 $\mu\text{m}$	0.011 $\mu\text{m}$	
	1.0 $\mu\text{m}$	0.030 $\mu\text{m}$	
	2.0 $\mu\text{m}$	0.031 $\mu\text{m}$	
	2.5 $\mu\text{m}$	0.070 $\mu\text{m}$	
	3.0 $\mu\text{m}$	0.087 $\mu\text{m}$	
	5.0 $\mu\text{m}$	0.18 $\mu\text{m}$	
10 $\mu\text{m}$	0.32 $\mu\text{m}$		

## Signatories:

1. Neoh Chin Yih
2. Siti Nurhafidza Binti Mohd Ridzam