

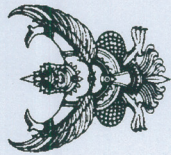
เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท ตรวจวัดสิ่งแวดล้อม จำกัด
ที่ อก ๐๓๑๐(๑)/ ๒ ๒๔ ๓
ลงวันที่ ๓๑ มกราคม ๒๕๖๖

ขอขยายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๔ รายการ
น้ำเสีย จำนวน 4 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Biochemical Oxygen Demand	5-Day BOD Test, Membrane Electrode Method
2	pH	Electrometric Method
3	Total Dissolved Solids	Dried at 180 °C
4	Total Suspended Solids	Dried at 103-105 °C

เอกสารอ้างอิง

APHA, AWWA, WEF. Standard Methods for the Examination of Water and Wastewater.
23rd ed. Washington, DC: APHA, 2017.



ที่ อก ๐๓๑๐(๑)/ ๒ ๒๔ ๓

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๓๑ มกราคม ๒๕๖๖

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
เรียน กรรมการผู้จัดการ บริษัท ตรวจวัดสิ่งแวดล้อม จำกัด
อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และขอคืนสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๘ ธันวาคม ๒๕๖๕

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท ตรวจวัดสิ่งแวดล้อม จำกัด จำนวน ๑ แผ่น

ตามหนังสือที่อ้างถึง บริษัท ตรวจวัดสิ่งแวดล้อม จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียน
ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ๖-๓๐๑-๑-๐๐๐๑ สถานที่ตั้งเลขที่ ๕/๔๕ หมู่บ้าน บ้านกลางกรุง ปทุมธานี
ซอยศรีนครินทร์ ๔๖/๑ (ปราโมทย์) แขวงหนองบอน เขตประเวศ กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท ตรวจวัดสิ่งแวดล้อม จำกัด ต่ออายุหนังสือรับขึ้น
ทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้
ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์

ข. ผู้วิเคราะห์

ทะเบียนเลขที่ ๖-๓๐๑-ค-๐๐๐๑

ทะเบียนเลขที่ ๖-๓๐๑-จ-๐๐๐๑

ทะเบียนเลขที่ ๖-๓๐๑-จ-๐๐๐๒

ทะเบียนเลขที่ ๖-๓๐๑-จ-๐๐๐๓

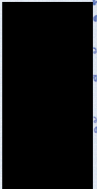
ทะเบียนเลขที่ ๖-๓๐๑-จ-๐๐๐๔

ค. ขอขยายสารมลพิษที่ได้รับขึ้นทะเบียนวิเคราะห์ในน้ำเสีย ตามสิ่งที่ส่งมาด้วย

หนังสือฉบับนี้จะหมดอายุในวันที่ ๓ มกราคม ๒๕๖๕ หากประสงค์จะต่ออายุหนังสือ
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อ
กรมโรงงานอุตสาหกรรม ภายใน ๓๐ วัน ก่อนวันสิ้นสุดของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
ทั้งนี้ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่เว็บไซต์กรมโรงงานอุตสาหกรรม ตาม QR Code
ท้ายหนังสือฉบับนี้

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ



ยื่นคำขอผ่านระบบอิเล็กทรอนิกส์

ผู้อำนวยการโรงงานและสิ่งแวดล้อมจังหวัด
บุรีรัมย์

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๑๔๙

อีเมล: yolk@wpp.go.th

เว็บไซต์: www.wpp.go.th

“อุตสาหกรรมก้าวหน้า ร่วมพัฒนา อุตสาหกรรมสีเขียว”





REPORT OF CALIBRATION

FOR

NOMENCLATURE : BALANCE
MANUFACTURER : METTLER TOLEDO
MODEL / TYPE : MS204TS/00
SERIAL NO. : B935191252[LA-002]
LOCATION SITE : LABORATORY - BALANCE ROOM
DATE OF CALIBRATION : 27 February 2025

ENVIRONMENT CONDITIONS :

Temperature : 23 °C to 24 °C
Relative Humidity : 49 % to 51 %

PROCEDURE USED :

This instrument was calibrated under procedure No. W1-305-46 based on EURAMET eg-18 Version 4.0 (11/2015).
The calibration was performed by Comparison with Weight Set which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

Weight Set, Mettler Toledo Class E2 S/N. 158850.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through National Institute of Metrology (Thailand).
Certificate No. MM-0165-23, Due Date 21 December 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor complies with the table which for a normal distribution corresponds to a coverage probability of approximately 95%. It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q25018254
F3-011-05/12-23



CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : BALANCE
MANUFACTURER : METTLER TOLEDO
MODEL / TYPE : MS204TS/00
SERIAL NO. : B935191252[LA-002]
CLID. NO. : 362200356
JOB CONTROL NO. : 250215018254
CALIBRATION SERVICE : ☐ IN-LABORATORY ☒ ON-SITE

CUSTOMER :

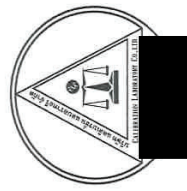
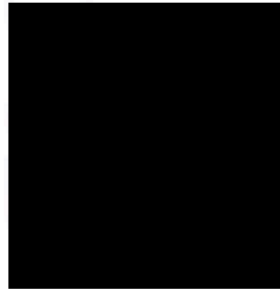
ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 15 February 2025

DATE OF ISSUED : 04 March 2025

The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :



Approved By :

04 March 2025

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q25018254
F3-011-05/12-23





CALIBRATION LABORATORY CO., LTD.
2/10-11,14,55 Soi Prasert Manukit 29 Yaek 4, Ladphrao, Bangkok 10230
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com Email:sale@cal-laboratory.com



CERTIFICATE OF CALIBRATION

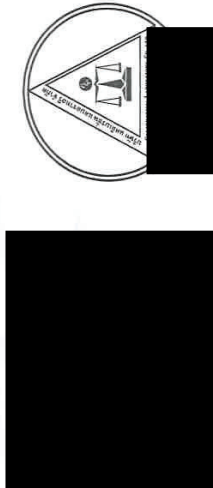
FOR

NOMENCLATURE : PRIMARY FLOW CALIBRATOR
MANUFACTURER : MESALABS
MODEL / TYPE : DEFENDER 510-M
SERIAL NO. : 172525
CLID. NO. : 212401789
JOB CONTROL NO. : 241010108770
CALIBRATION SERVICE : ☒ IN-LABORATORY ☐ ON-SITE

CUSTOMER : ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 10 October 2024 DATE OF ISSUED : 15 October 2024
The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :



Approved By :

15 October 2024

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q24108770
F3-011-05/12-23

page 1 of 3



@elcalibration



CALIBRATION LABORATORY CO., LTD.
2/10-11,14,55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com Email:sale@cal-laboratory.com



CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION
MEASUREMENT RESULTS : (X) without adjustment () adjustment
CALIBRATION DATA

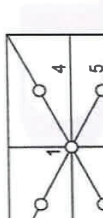

1. Error of indications

Nominal Test Value (g)	Conventional mass (g)	Display Value (g)	Error of Balance (g)	Uncertainty \pm (mg)	Coverage factor k
Unload	0.0000	0.0000	0.0000	0.06	2,00
0.1000	0.1000	0.1000	0.0000	0.14	2,00
0.5000	0.5000	0.5000	0.0000	0.15	2,00
1.0000	1.0000	1.0001	+0.0001	0.15	2,00
2.0000	2.0000	2.0001	+0.0001	0.15	2,00
5.0000	5.0000	5.0000	0.0000	0.15	2,00
10.0000	10.0000	10.0001	+0.0001	0.15	2,00

2. Repeatability of indications

Nominal Test Value (g)	Standard Deviation of Reading (g)
200.0000	0.00004

3. Effect of eccentric application of a load on the indication

3. Effect of eccentric application of a load on the indication						
	<input type="checkbox"/>		<input checked="" type="checkbox"/>			
Nominal Test Value (g)	Display Value (g)					Maximum Difference of Center Value (g)
	Position 1	Position 2	Position 3	Position 4	Position 5	
100.0000	99.9999	100.0001	99.9999	99.9998	99.9998	0.0002

Note. The Scope of Accredited TISI Certificate No. 23-LB0092 Issue 02 Page 116 of 138

This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q25018254
F3-011-05/12-23

page 3 of 3



@elcalibration



CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION

MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of the measuring primary flow calibrator.

CALIBRATION DATA

DUC Setting (L / min)	STD Reading (L / min)	Correction (L / min)	Uncertainty ± (L/min)
0.500	0.51828	+0.01828	0.57735
1.000	1.0326	+0.0326	0.5774
2.000	2.0561	+0.0561	0.5774
5.000	5.1183	+0.1183	0.5781

Technical Note. Media of Gas : Air

Setting Temperature 23 ° C ; Pressure 101.3 kPa

Note. The Scope of Accredited ANAB Certificate No. ACDM-2814 Version 012 Page 48 of 67

This report is valid for the above stated instrument/s only.

End of Certificate



REPORT OF CALIBRATION

FOR

NOMENCLATURE : PRIMARY FLOW CALIBRATOR
MANUFACTURER : MESALABS
MODEL / TYPE : DEFENDER 510-M
SERIAL NO. : 172525
DATE OF CALIBRATION : 11 October 2024

ENVIRONMENT CONDITIONS :

Temperature : $(23 \pm 2) ^\circ\text{C}$

Relative Humidity : $(55 \pm 10) \% \text{ RH}$

PROCEDURE USED :

This instrument was calibrated under procedure No. CLC-CPPF-03. The calibration was performed by comparison with Gas Flow Meter which refers to the standard condition of 101.325 kPa and 0 °C.

REFERENCE STANDARD USED :

Gas Flow Meter, Alicat Scientific Model M-5SLPM-D-DB15 S/N. 261330.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through Chell Instrument Ltd. Certificate No. N037064, Due Date 26 February 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor complies with the table which for a normal distribution corresponds to a coverage probability of approximately 95 %. It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"





4353 Sukhumvit, Bangna, Bangkok 10260 Tel. 081-454-2804, 0-2399-0469

The Result of Calibration

Certification No. 344/23

3 October, 2023

Page : 2 of 2

Standard Ultrasonic Anemometer m/sec	HOOK GAGE NO. 1425			TESTED ANEMOMETER	
	Pressure inches H ₂ O	Vacuum inches H ₂ O	Velocity m/sec	Velocity m/sec	Correction m/sec
1.00	-	-	-	0.95	0.05
3.02	-	-	-	2.85	0.17
5.00	-	-	-	4.95	0.05
7.00	-	-	-	6.85	0.15
9.02	-	-	-	8.95	0.07
11.01	-	-	-	10.85	0.16
13.01	-	-	-	12.99	0.02
15.01	-	-	-	15.10	-0.09
17.02	-	-	-	16.98	0.04
20.02	-	-	-	20.13	-0.11

Wind Aloft Plotting Board.

US DEPARTMENT OF COMMERCE WEATHER BUREAU

WIND DIRECTION	TESTED WIND DIRECTION			
	0	90	180	270
0				
90				
180				
270				

Calibrated by



4353 Sukhumvit, Bangna, Bangkok 10260 Tel. 081-454-2804, 0-2399-0469

Calibration Certificate

Issued by : Calibration & Test Section : Meteorological Instruments Bureau

Date of Issue : 3 October, 2023

Certification No. 344/23

Page : 1 of 2

Object	:	Wind speed and wind direction
Manufacturer	:	Sensor : NRG Basic Datalogger : Symphonie
Type	:	Sensor : 40C Basic Datalogger : LR20
Serial No.	:	Sensor : 1795-00135858 Basic Datalogger : 309013229
Customer	:	Environmental Measurements Co., Ltd. 5/45 Baan Klang Krung Biz Town, Soi Srinagarindra 46/1 (Pramote), Nong Bon Sub-District, Prawet District, Bangkok 10250.

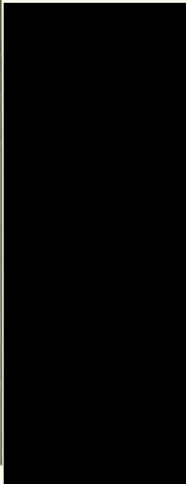
Calibration Condition : Temperature 25.1 °C Barometric Pressure 1011.3 hPa

NATIONAL STANDARD WIND TUNNEL :

- : Thermal Anemometer 642 S/N 91563
- : HOOK GAGE NO 1425 Pilot Tube Theodor Friedrichs Type 0800.0000 serial 9023
- : N.I.S.T. Test Reference Number 731/241460 : Standard Velocity at 20 - 30 m/sec
- : Ultrasonic Anemometer Model DA-650-3TV (sensor TR-90AH)
- : Serial Number 110730029 (sensor 120629586)

JAPAN QUALITY ASSURANCE ORGANIZATION

: Standard Velocity at 0 - 20 m/sec





Certificate No.: C2409-0836

Environmental conditions: Pressure: 101.325 kPa Temperature: 23.0 °C Relative humidity: 50 %RH
Reference conditions: Measurement conditions: 100.90 ± 0.01 kPa 23.2 ± 1.1 °C 58.2 ± 2.3 %RH

1. Sound pressure level

Specified sound pressure level (dB)	Measured sound pressure level (dB)	Deviated value (dB)	Tolerance limit IEC60942:2017 Class 1 (dB)
94.00	93.93	0.07	±0.25
114.00	114.01	0.01	±0.25

2. Frequency

Specified Frequency (Hz)	Measured Frequency (Hz)	Deviated value (%)	Tolerance limit IEC60942:2017 Class 1 (%)
1000.00	1000.30	0.03	±0.7
1000.00	1000.18	0.02	±0.7

3. Total distortion + Noise

Specified sound pressure level (dB)	Measured Distortion (%)	Tolerance limit IEC60942:2017 Class 1 (%)
94.00	0.50	±2.5
114.00	1.10	±2.5

Uncertainty of measurement

Parameters	Uncertainty
Sound pressure level	0.10 dB
Frequency	0.020 %
Total distortion + Noise	0.10 %

Date of calibration: 2024-09-30
Date of issue: 2024-10-02



Acoustic Laboratory (Thailand) Co., Ltd.
6/57 Soi Phomsin Soi 42, Sai Mai, Sai Mai, Bangkok 10220
Tel: (+66) 02-1296780 Email: info@altbkk.com

Certificate of Calibration

Certificate No.: C2409-0836

Customer: ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 Baan Klang Krung Biz Town, Soi Srinagarindra
46/1 (Pramote), NONG BON Sub-district,
PRAWET District, BANGKOK 10250

Date of calibration: 2024-09-30
Date of issue: 2024-10-02
Instrument Calibrated: Sound Calibrator
Manufacturer: BSWA
Type: CA111
Serial no: 550482

Calibration and verification performed:

The performed tests refer to IEC 60942 (2017): Electro-acoustics - Sound Calibrators. The calibrator has been tested as described in Annex B of the same standard.

Preconditioning:

The equipment was preconditioned for more than 16 hours at the specified calibration temperature and humidity

Instruments and Program:

A complete list of instruments, hardware, and software, that has been used for this calibration is separately available from the calibration laboratory.

Equipment standards used:

- Sound Measuring Equipment Calibration Unit 483B S/N31083
- Digital Multimeter Keysight S/N HP34401A
- Ultra-low Distortion Function Generator Stanford SRS DS360 S/N123625
- Acoustic Sound Calibrator Class 0 Nor1253 S/N32941
- Reference Microphone Condenser G.R.A.S. 40AU-1 S/N309231
- Sound Analyser Nor140 S/N1405248
- Combined Pressure, Humidity and Temperature Transmitter PTU300 S/NM2520568

Traceability

The measured values are traceable to following the ISO/IEC 17025 laboratories:

- Sound Pressure Level: NCL, Norway
- Reference microphone: NCL, Norway
- Voltage: TPA, Thailand
- Frequency: TPA, Thailand
- Reference Pressure, Humidity and Temperature: TPA, Thailand
- Distortion Meter: EEI, Thailand

This certificate of calibration is issued by Acoustic Laboratory Thailand (ALT). It also states that the laboratory has a satisfactory quality assurance system and traceability to accredited or national calibration laboratories. This certificate may not be reproduced other than in full.



Acoustic Laboratory (Thailand) Co., Ltd.
6/57 Soi Phoen Sin 42, Sai Mai, Bangkok 10220
Tel: (+66) 02-1296780 Email: info@altbkk.com



Certificate of Calibration

Certificate No.: S2409-0833

Customer: ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 Baan Klang Krung Biz Town, Soi Srinagarindra
46/1 (Pramote), NONG BON Sub-district,
PRAWET District, BANGKOK 10250

Date of calibration: 2024-10-01
Date of issue: 2024-10-02
Instrument Calibrated: Noise Dosimeter
Manufacturer: SOUNDTEK
Model: ST-130
Serial no: 170800130

Calibration and verification performed:

Acoustical levels are stated relative to 20µPa. Other dB levels are relative values.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k , which with the reported effective degree of freedom corresponds to coverage probability of approximately 95%.

The sound level meter instrument submitted for periodic testing following the periodic tests of IEC 61672-3 : 2013.

Preconditioning:

The equipment was preconditioned for more than 16 hours at the specified calibration temperature and humidity.

Instruments and Program:

A complete list of instruments, hardware, and software, that has been used for this calibration is separately available from the calibration laboratory.

Equipment standards used:

- Sound measuring equipment calibration unit Nor140 S/N1405248
- Acoustic sound calibrator class 1 Nor1256 S/N125626542
- Combined Pressure, Humidity and Temperature Transmitter PTU300 S/NM2520568

Traceability

The measured values are traceable to following the ISO/IEC 17025 laboratories:

Sound Pressure Level: EEI, Thailand
Reference Pressure, Humidity and Temperature: TPA, Thailand



Certificate No.: C2409-0836

The reported expanded uncertainty is based upon a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

Calibrated By:

Approved By:

Date of calibration: 2024-09-30
Date of issue : 2024-10-02

End of Calibration Certificate

Acoustic Laboratory
Thailand

C-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve	
	C-Weighting (dB)	Acceptance limit (dB)
125	0.4	±1.5
1000	0.0	±1.0
8000	1.3	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

The reported expanded uncertainty is based upon a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

Approved By:

Date of calibration : 2024-10-01
Date of issue : 2024-10-02

----- End of Calibration Certificate -----

Environmental conditions: Pressure: 101.325 kPa Temperature: 23.0 °C Relative humidity: 50 %RH
Reference conditions: 100.78 ± 0.10 kPa 22.9 ± 0.5 °C 52.5 ± 5.0 %RH
Measurement conditions:

1. Indication at the calibration check frequency

Reference Acoustic Signal (dB)	Measured value (dB)		Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
	Before adjust	After adjust			
93.9	94.1	93.9	0.0	0.12	±1.0

Note: Indication at the checked calibration frequency was adjusted to 93.9 dB by the sound calibrator BSWA model CA111 S/N:550482

2. Frequency Weighting at 1 kHz

Frequency Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
A-Weighting	94.0	0.0	0.20	±0.3
C-Weighting	94.0	0.0	0.20	±0.3

Note: Frequency weighting at 1 kHz are not accredited

3. Time Weighting at 1 kHz

Time Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
Fast	94.0	0.0	0.20	±0.3
Slow	94.0	0.0	0.20	±0.3

Note: Time Weighting at 1 kHz are not accredited

4. Acoustical signal test of frequency weightings

A-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve	
	A-Weighting (dB)	Acceptance limit (dB)
125	0.2	±1.5
1000	0.0	±1.0
8000	0.6	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

Date of calibration : 2024-10-01
Date of issue : 2024-10-02

Environmental conditions: Pressure: 101.325 kPa Temperature: 23.0 °C Relative humidity: 50 %RH
Reference conditions: 100.38 ± 0.50 kPa 23.0 ± 0.5 °C 53.4 ± 5.0 %RH
Measurement conditions:

1. Indication at the calibration check frequency

Reference Acoustic Signal (dB)	Measured value (dB)		Deviated value (dB)	Uncertainty (dB)	Acceptant limit (dB)
	Before adjust	After adjust			
93.9	94.1	93.9	0.0	0.12	±1.0

Note: Indication at the checked calibration frequency was adjusted to 93.9 dB by the sound calibrator BSWA model:CA111 SN:550482

2. Frequency Weighting at 1 kHz

Frequency Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
A-Weighting	94.0	0.0	0.20	±0.3
C-Weighting	93.9	0.0	0.20	±0.3

Note: Frequency weighting at 1 kHz are not accredited

3. Time Weighting at 1 kHz

Time Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
Fast	94.0	0.0	0.20	±0.3
Slow	94.0	0.0	0.20	±0.3

Note: Time Weighting at 1 kHz are not accredited

4. Acoustical signal test of frequency weightings

A-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve		
	A-Weighting (dB)	Uncertainty (dB)	Acceptance limit (dB)
125	0.1	0.20	±1.5
1000	0.0	0.20	±1.0
8000	1.9	0.20	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

Date of calibration : 2024-10-01
Date of issue : 2024-10-02

Certificate of Calibration

Certificate No.: S2409-0834

Customer:
ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 Baan Klang Krung Biz Town, Soi Srinagarindra
46/1 (Pramote), NONG BON Sub-district,
PRAWET District, BANGKOK 10250

Date of calibration: 2024-10-01
Date of issue: 2024-10-02
Instrument Calibrated: Noise Dosimeter
Manufacturer: SOUNDTEK
Model: ST-130
Serial no: 170800167

Calibration and verification performed:

Acoustical levels are stated relative to 20µPa. Other dB levels are relative values.
The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k, which with the reported effective degree of freedom corresponds to coverage probability of approximately 95%.
The sound level meter instrument submitted for periodic testing following the periodic tests of IEC 61672-3 : 2013.

Preconditioning:

The equipment was preconditioned for more than 16 hours at the specified calibration temperature and humidity.

Instruments and Program:

A complete list of instruments, hardware, and software, that has been used for this calibration is separately available from the calibration laboratory.

Equipment standards used:

- Sound measuring equipment calibration unit Nor140 S/N1405248
- Acoustic sound calibrator class 1 Nor1256 S/N125626542
- Combined Pressure, Humidity and Temperature Transmitter PTU300 S/NM2520568

Traceability

The measured values are traceable to following the ISO/IEC 17025 laboratories:
Sound Pressure Level: EEI, Thailand
Reference Pressure, Humidity and Temperature: TPA, Thailand



Acoustic Laboratory (Thailand) Co., Ltd.
6/57 Soi Phoom Sin 42, Sai Mai, Bangkok 10220
Tel: (+66) 02-1296780 Email: info@altbkk.com



Certificate of Calibration

Certificate No.: S2409-0835

Customer:

ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 Baan Klang Krung Biz Town, Soi Srinagarindra
46/1 (Pramote), NONG BON Sub-district,
PRAWET District, BANGKOK 10250

Date of calibration:

2024-10-01

Date of issue:

2024-10-02

Instrument Calibrated:

Noise Dosimeter

Manufacturer:

SOUNDTEK

Model:

ST-130

Serial no:

170800266

Calibration and verification performed:

Acoustical levels are stated relative to 20µPa. Other dB levels are relative values.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k , which with the reported effective degree of freedom corresponds to coverage probability of approximately 95%.

The sound level meter instrument submitted for periodic testing following the periodic tests of IEC 61672-3 : 2013.

Preconditioning:

The equipment was preconditioned for more than 16 hours at the specified calibration temperature and humidity.

Instruments and Program:

A complete list of instruments, hardware, and software, that has been used for this calibration is separately available from the calibration laboratory.

Equipment standards used:

- Sound measuring equipment calibration unit Nor140 S/N1405248
- Acoustic sound calibrator class 1 Nor1256 S/N125626542
- Combined Pressure, Humidity and Temperature Transmitter PTU300 S/NM2520568

Traceability

The measured values are traceable to following the ISO/IEC 17025 laboratories:

Sound Pressure Level: EEL, Thailand

Reference Pressure, Humidity and Temperature: TPA, Thailand

This certificate of calibration is issued by Acoustic Laboratory Thailand (ALT). It also states that the laboratory has a satisfactory quality assurance system and traceability to accredited or national calibration laboratories. This certificate may not be reproduced other than in full.

u.17/11



Certificate No.: S2409-0834

C-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve		Acceptance limit (dB)
	C-Weighting (dB)	Uncertainty (dB)	
125	1.0	0.20	±1.5
1000	-0.1	0.20	±1.0
8000	2.5	0.20	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

The reported expanded uncertainty is based upon a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%



Calibrated

Approved By

Date of calibration : 2024-10-01

Date of issue : 2024-10-02

----- End of Calibration Certificate -----

Acoustic Laboratory
Thailand

Registration number 0105564086235
6/57 Poemsin Soi 42, Sai Mai, 10220 Bangkok Thailand
Tel (+66) 02-1296780 Email: info@altbkk.com
www.altbkk.com

C-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve		Acceptance limit (dB)
	C-Weighting (dB)	Uncertainty (dB)	
125	0.5	0.20	±1.5
1000	0.3	0.20	±1.0
8000	4.5	0.20	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

The reported expanded uncertainty is based upon a standard uncertainty multiplied by a coverage factor
k = 2, providing a level of confidence of approximately 95%

Calibrated By: [Redacted]
Approved By: [Redacted]

Date of calibration : 2024-10-01
Date of issue : 2024-10-02

----- End of Calibration Certificate -----

Environmental conditions: Pressure: 101.325 kPa Temperature: 23.0 °C Relative humidity: 50 %RH
Reference conditions: 100.38 ± 0.50 kPa 23.0 ± 0.5 °C 53.4 ± 5.0 %RH
Measurement conditions:

1. Indication at the calibration check frequency

Reference Acoustic Signal (dB)	Measured value (dB)		Deviated value (dB)	Uncertainty (dB)	Acceptant limit (dB)
	Before adjust	After adjust			
93.9	94.1	93.9	0.0	0.12	±1.0

Note: Indication at the checked calibration frequency was adjusted to 93.9 dB by the sound calibrator BSWA model CA111 S/N:550482

2. Frequency Weighting at 1 kHz

Frequency Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
A-Weighting	94.0	0.0	0.20	±0.3
C-Weighting	94.1	0.0	0.20	±0.3

Note: Frequency weighting at 1 kHz are not accredited

3. Time Weighting at 1 kHz

Time Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
Fast	94.0	0.0	0.20	±0.3
Slow	94.0	0.0	0.20	±0.3

Note: Time Weighting at 1 kHz are not accredited

4. Acoustical signal test of frequency weightings

A-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve		Acceptance limit (dB)
	A-Weighting (dB)	Uncertainty (dB)	
125	0.9	0.20	±1.5
1000	0.2	0.20	±1.0
8000	3.3	0.20	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

Date of calibration : 2024-10-01
Date of issue : 2024-10-02

Environmental conditions: Pressure: 101.325 kPa
Reference conditions: 23.0 °C
Measurement conditions: 100.38 ± 0.50 kPa
Relative humidity: 50 %RH
53.4 ± 5.0 %RH

1. Indication at the calibration check frequency

Reference Acoustic Signal (dB)	Measured value		Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
	Before adjust	After adjust			
93.9	93.8	93.9	0.0	0.12	±1.0

Note: Indication at the checked calibration frequency was adjusted to 93.9 dB by the sound calibrator BSWA model:CA111 S/N:550482

2. Frequency Weighting at 1 kHz

Frequency Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
A-Weighting	94.0	0.0	0.20	±0.3
C-Weighting	94.0	0.0	0.20	±0.3

Note: Frequency weighting at 1 kHz are not accredited

3. Time Weighting at 1 kHz

Time Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
Fast	94.0	0.0	0.20	±0.3
Slow	94.0	0.0	0.20	±0.3

Note: Time Weighting at 1 kHz are not accredited

4. Acoustical signal test of frequency weightings

A-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve		Acceptance limit (dB)
	A-Weighting (dB)	Uncertainty (dB)	
125	-0.7	0.20	±1.5
1000	0.0	0.20	±1.0
8000	-0.4	0.20	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

Date of calibration : 2024-10-02
Date of issue : 2024-10-03

Certificate of Calibration

Certificate No.: S2409-0831

Customer: ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 Baan Klang Kung Biz Town, Soi Srinagarindra
46/1 (Pranote), NONG BON Sub-district,
PRA WET District, BANGKOK 10250

Date of calibration: 2024-10-02
Date of issue: 2024-10-03
Instrument Calibrated: Noise Dosimeter
Manufacturer: SOUNDTEK
Model: ST-130
Serial no: 170800271

Calibration and verification performed:

Acoustical levels are stated relative to 20µPa. Other dB levels are relative values.
The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k, which with the reported effective degree of freedom corresponds to coverage probability of approximately 95%.

The sound level meter instrument submitted for periodic testing following the periodic tests of IEC 61672-3 : 2013.

Preconditioning:

The equipment was preconditioned for more than 16 hours at the specified calibration temperature and humidity.

Instruments and Program:

A complete list of instruments, hardware, and software, that has been used for this calibration is separately available from the calibration laboratory.

Equipment standards used:

- Sound measuring equipment calibration unit Nor140 S/N1405248
- Acoustic sound calibrator class 1 Nor1256 S/N125626542
- Combined Pressure, Humidity and Temperature Transmitter PTU300 S/NM2520568

Traceability

The measured values are traceable to following the ISO/IEC 17025 laboratories:
Sound Pressure Level: EEI, Thailand
Reference Pressure, Humidity and Temperature: TPA, Thailand



Acoustic Laboratory (Thailand) Co., Ltd.
6/57 Soi Phoen Sin 42, Sai Mai, Sai Mai, Bangkok 10220
Tel: (+66) 02-1296780 Email: info@altbkk.com



Certificate of Calibration

Certificate No.: S2409-0832

Customer:

ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 Baan Klang Krung Biz Town, Soi Srinagarindra
46/1 (Pramote), NONG BON Sub-district,
PRAWET District, BANGKOK 10250

Date of calibration:

2024-10-01

Date of issue:

2024-10-02

Instrument Calibrated:

Noise Dosimeter

Manufacturer:

SOUNDTEK

Model:

ST-130

Serial no:

170800288

Calibration and verification performed:

Acoustical levels are stated relative to 20 μ Pa. Other dB levels are relative values.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k , which with the reported effective degree of freedom corresponds to coverage probability of approximately 95%.

The sound level meter instrument submitted for periodic testing following the periodic tests of IEC 61672-3 : 2013.

Preconditioning:

The equipment was preconditioned for more than 16 hours at the specified calibration temperature and humidity.

Instruments and Program:

A complete list of instruments, hardware, and software, that has been used for this calibration is separately available from the calibration laboratory.

Equipment standards used:

- Sound measuring equipment calibration unit Nor140 S/N1405248
- Acoustic sound calibrator class 1 Nor1256 S/N125626542
- Combined Pressure, Humidity and Temperature Transmitter PTU300 S/NM2520568

Traceability

The measured values are traceable to following the ISO/IEC 17025 laboratories:

Sound Pressure Level: EEI, Thailand
Reference Pressure, Humidity and Temperature: TPA, Thailand



Certificate No.: S2409-0831

C-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve		Acceptance limit (dB)
	C-Weighting (dB)	Uncertainty (dB)	
125	-0.1	0.20	± 1.5
1000	0.0	0.20	± 1.0
8000	-0.3	0.20	± 5.0

Note: Acoustical signal test of frequency weightings are not accredited

The reported expanded uncertainty is based upon a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

Calibration

Approved By:

Date of calibration : 2024-10-02
Date of issue : 2024-10-03

----- End of Calibration Certificate -----

C-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve	
	C-Weighting (dB)	Acceptance limit (dB)
125	0.1	±1.5
1000	0.1	±1.0
8000	3.0	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

The reported expanded uncertainty is based upon a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

Approved By

Date of calibration : 2024-10-01
Date of issue : 2024-10-02

----- End of Calibration Certificate -----

Environmental conditions: Pressure: 101.325 kPa Temperature: 23.0 °C Relative humidity: 50 %RH
Reference conditions: 100.38 ± 0.50 kPa 23.0 ± 0.5 °C 53.4 ± 5.0 %RH
Measurement conditions:

1. Indication at the calibration check frequency

Reference Acoustic Signal (dB)	Measured value (dB)		Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
	Before adjust	After adjust			
93.9	93.6	93.9	0.0	0.12	±1.0

Note: Indication at the checked calibration frequency was adjusted to 93.9 dB by the sound calibrator BSWA model CA111 SN:550482

2. Frequency Weighting at 1 kHz

Frequency Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
A-Weighting	94.0	0.0	0.20	±0.3
C-Weighting	94.1	0.0	0.20	±0.3

Note: Frequency weighting at 1 kHz are not accredited

3. Time Weighting at 1 kHz

Time Weighting	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
Fast	94.0	0.0	0.20	±0.3
Slow	94.1	0.1	0.20	±0.3

Note: Time Weighting at 1 kHz are not accredited

4. Acoustical signal test of frequency weightings

A-Weighting acoustic frequency response meter free-field acoustic response at a level of 80.0 dB

Frequency Weighting (Hz)	Deviation from various frequency weighting response curve	
	A-Weighting (dB)	Acceptance limit (dB)
125	0.0	±1.5
1000	-0.2	±1.0
8000	2.2	±5.0

Note: Acoustical signal test of frequency weightings are not accredited

Date of calibration : 2024-10-01
Date of issue : 2024-10-02



CALIBRATION LABORATORY CO., LTD.

2/10-11, 14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com Email: sale@cal-laboratory.com



CALIBRATION LABORATORY CO., LTD.

2/10-11, 14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com Email: sale@cal-laboratory.com

REPORT OF CALIBRATION

FOR

NOMENCLATURE : pH METER
MANUFACTURER : APERA
MODEL / TYPE : PH700/201T-F
SERIAL NO. : PH700X1019061009/N/A [LA-008/PH-02]
DATE OF CALIBRATION : 11 April 2025

ENVIRONMENT CONDITIONS :

Temperature : $(25 \pm 2.5) ^\circ\text{C}$ Relative Humidity : $(50 \pm 15) \% \text{ RH}$

PROCEDURE USED :

This instrument was calibrated under procedure No. WI-305-128, 238. The calibration was performed by direct measurement with Certified Reference Material (CRM) and comparison with Calibration Bath, Precision Thermometer and IPRT which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

1. pH Standard Solution, NIMT TRM CODE TRM-S-2003, TRM CODE TRM-S-2007.
2. pH Standard Solution, Control Company Catalog Number 06664260, 11754256, Lot Number CC787362.
3. Calibration Bath, Kambic Model OB-222 ULT S/N. 17115653.
4. Precision Thermometer, ASL Model F250 S/N. 1334023800.
5. IPRT, Wika Model CTP5000-250-D S/N. PO00043543-1-10-1.

Certificate No. Q25042961

F3-011-05/12-23

page 2 of 4



@cdcalibration



CALIBRATION LABORATORY CO., LTD.

2/10-11, 14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com Email: sale@cal-laboratory.com

CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : pH METER
MANUFACTURER : APERA
MODEL / TYPE : PH700/201T-F
SERIAL NO. : PH700X1019061009/N/A [LA-008/PH-02]
CLID. NO. : 272401000
JOB CONTROL NO. : 250410042961
CALIBRATION SERVICE : ☒ IN-LABORATORY ☐ ON-SITE

CUSTOMER : ENVIRONMENTAL MEASUREMENTS CO., LTD.

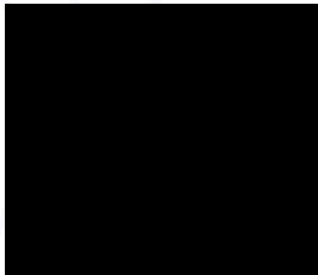
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 10 April 2025

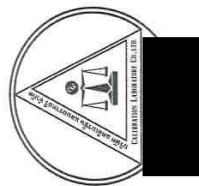
DATE OF ISSUED : 18 April 2025

The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :



Approved By :



This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q25042961

F3-011-05/12-23

page 1 of 4



@cdcalibration

CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION

MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of pH meter.

CALIBRATION DATA

1. pH METER RESULT @ 25 °C

Standard pH Buffer Solution (pH)	pH Meter Reading (pH)	pH Meter Reading (mV)	Correction (pH)	Uncertainty of Measurement (± pH)	k Factor
4.003	4.01	134	-0.007	0.014	2.00
7.005	7.00	-43	+0.005	0.014	2.00
10.015	10.01	-208	+0.005	0.100	2.05

Technical Note. Setting function CAL 3 point (4,7,10).

Note. The Scope of Accredited TISI Certificate No. 23-LB0092 Issue 02 Page 91 of 138

*2. TEMPERATURE RESULT

Immersion depth (mm)	Actual Temperature (°C)	DUC Reading (°C)	Correction (°C)	Uncertainty ± (°C)
100	25.01	24.9	+0.11	0.07

Technical Note. Type of sensor : pH Probe

Probe Ø 12 mm

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor of $k = 2.00$.

Note. * means Calibrations marked " Not TISI Accredited " in this Certificate have been included for completeness.

This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q25042961
F3-011-05/12-23



page 4 of 4

TRACEABILITY :

1. The measurements are traceable to International System of Units (SI), through National Institute of Metrology (Thailand).

Lot Number. 080124 , 120124. Due Date 23 January 2026.

2. The measurements are traceable to International System of Units (SI), through Control Company.

Certificate No. 4281-14495731 , Due Date 27 September 2025.

3. The measurements are traceable to International System of Units (SI), through Calibration Laboratory Co., Ltd.

Certificate No. Q24120999, Due Date 26 November 2025.

4. The measurements are traceable to International System of Units (SI), through Thailand Institute of Scientific and Technological Research (TISTR). Certificate No. PSL-T 1042/67, Due Date 16 October 2025.

5. The measurements are traceable to International System of Units (SI), through National Institute of Metrology (Thailand). Certificate No. TT-0146-24, Due Date 28 October 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor complies with the table which for a normal distribution corresponds to a coverage probability of approximately 95 % . It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q25042961
F3-011-05/12-23



page 3 of 4



CALIBRATION LABORATORY CO., LTD.
2/10-11, 14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel: 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com E-mail: sale@cal-laboratory.com



REPORT OF CALIBRATION

FOR

NOMENCLATURE : DO METER
MANUFACTURER : YSI
MODEL / TYPE : 5000-230V/5010
SERIAL NO. : 16D101626/19D100367/DOM-01]
DATE OF CALIBRATION : 11 April 2025

ENVIRONMENT CONDITIONS :

Temperature : $(25 \pm 2.5) ^\circ\text{C}$ Relative Humidity : $(50 \pm 15) \% \text{RH}$

PROCEDURE USED :

This instrument was calibrated under procedure No. CLC-CPCH-06. The calibration was performed by direct measurement with Certified Reference Material (CRM).

REFERENCE STANDARD USED :

Dissolved Oxygen, Sigma-Aldrich Product ID QC3077-500ML.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through Merck Co., Ltd.
Lot LRAD8571, Due Date April 2026.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2.00$ which for a normal distribution corresponds to a coverage probability of approximately 95 %.
It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q25042960
F3-011-05/12-23



CALIBRATION LABORATORY CO., LTD.
2/10-11, 14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel: 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com E-mail: sale@cal-laboratory.com

CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : DO METER
MANUFACTURER : YSI
MODEL / TYPE : 5000-230V/5010
SERIAL NO. : 16D10162
CLID. NO. : 272100329
JOB CONTROL NO. : 250410042960
CALIBRATION SERVICE : ☒ IN-LABORATORY ☐ ON-SITE

CUSTOMER :

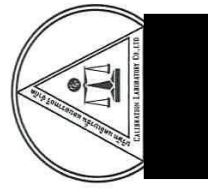
ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 10 April 2025

DATE OF ISSUED : 18 April 2025

The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :



Approved By :

18 April 2025

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q25042960
F3-011-05/12-23





CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : DIGITAL THERMOMETER WITH PROBE
MANUFACTURER : LUTRON
MODEL / TYPE : MTM-380SD
SERIAL NO. : I.570147N/A[LA-0013/LA-0013/A]
CLID. NO. : 232204019
JOB CONTROL NO. : 250408041416
CALIBRATION SERVICE : ☒ IN-LABORATORY ☐ ON-SITE

CUSTOMER : ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 08 April 2025 DATE OF ISSUED : 11 April 2025
The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.



Calibrated By :



Approved By :

11 April 2025

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q25041416
F3-011-05/12-23



Certificate No. Q25042960
F3-011-05/12-23



CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION
MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of Do Meter.

CALIBRATION DATA

DO METER RESULT @ 20 °C

Nominal Value (mg/L)	DUC Reading (mg/L)	Correction (mg/L)	Uncertainty (mg/L)
8.18	8.2	-0.02	± 0.38

Note. The Scope of Accredited ANAB Certificate No. ACDM-2814 Version 015 Page 5 of 68

This report is valid for the above stated instrument/s only.

End of Certificate



CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION
MEASUREMENT RESULTS : (X) without adjustment () adjustment

The DUC Reading were recorded and the means value were reported of five times measurement in the table below.

CALIBRATION DATA

CORRECTION OF TEMPERATURE : T1

Immersion depth (mm)	Actual Temperature (°C)	DUC Reading (°C)	Correction (°C)	Uncertainty ± (°C)
200	4.00	4.0	0.00	0.52
	20.02	20.1	-0.08	
	95.02	96.1	-1.08	
	104.02	105.1	-1.08	
	180.00	181.6	-1.60	

Technical Note. Type of sensor : Thermocouple Type K.

Note. The Scope of Accredited ANAB Certificate No. ACDM-2814 Version 015 Page 57 of 68

This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q25041416
F3-011-05/12-23



REPORT OF CALIBRATION
FOR

NOMENCLATURE : DIGITAL THERMOMETER WITH PROBE
MANUFACTURER : LUTRON
MODEL / TYPE : MTM-380SD
SERIAL NO. : I.570147/N/A|LA-0013/LA-0013/A|
DATE OF CALIBRATION : 10 April 2025

ENVIRONMENT CONDITIONS :

Temperature : (23 ± 2) °C

Relative Humidity : (55 ± 10) % RH

PROCEDURE USED :

This instrument was calibrated under procedure No. CLC-CPTH-06 based on ASTM E 220-86 as calibration guidelines.

The calibration was performed by using Calibration Bath, Precision Thermometer and IPRT which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

1. Calibration Bath, Kambic Model OB-22/2 ULT, OB-22/2 S/N. I7115653, I7115654.
2. Precision Thermometer, ASL Model F250 S/N. 1334023800.
3. IPRT, Wika, ASL Model CTP5000-450-D, T100-250-ID S/N. PO00036374-1-10-12, PO106346-1-18.

TRACEABILITY :

1. The measurements are traceable to International System of Units (SI), through Calibration Laboratory Co., Ltd. Certificate No. Q24120999, Q24112862. Due Date 26 November 2025, 12 November 2025.
2. The measurements are traceable to International System of Units (SI), through Thailand Institute of Scientific and Technological Research (TISTR). Certificate No. PSL-T 1042/67, Due Date 16 October 2025.
3. The measurements are traceable to International System of Units (SI), through National Institute of Metrology (Thailand). Certificate No. TT-0147-24, TT-0110-24. Due Date 28 October 2025, 06 August 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2.00$ which for a normal distribution corresponds to a coverage probability of approximately 95 %. It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q25041416
F3-011-05/12-23





CALIBRATION LABORATORY Co., LTD.

2/10-11,14,55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cali-laboratory.com E-mail:sale@cali-laboratory.com



REPORT OF CALIBRATION

FOR

NOMENCLATURE : DIGITAL THERMOHYGRO METER
MANUFACTURER : DIGICON
MODEL / TYPE : TH-02A
SERIAL NO. : 1919E0284991[DTH-01]
DATE OF CALIBRATION : 10 April 2025

ENVIRONMENT CONDITIONS :

Temperature : $(23 \pm 2) ^\circ\text{C}$ Relative Humidity : $(55 \pm 10) \% \text{RH}$

PROCEDURE USED :

This instrument was calibrated under procedure No. CLC-CPTH-11. The calibration was performed by using Chilled Mirror Hygrometer which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

Chilled Mirror Hygrometer, Edgetech Model Dew Master S/N. 44602.
Temperature & Humidity Chamber, PGC Model 9141-5116 S/N. 1304261.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through Thunder Scientific Corporation.
Certificate No. 22724, Due Date 03 October 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2.00$ which for a normal distribution corresponds to a coverage probability of approximately 95 %.
It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q25041414

F3-011-05/12-23



page 2 of 3

Certificate No. Q25041414

F3-011-05/12-23

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

page 1 of 3



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Tel. 02-578-0353-4 Fax: 02-578-2672 www.cali-laboratory.com E-mail:sale@cali-laboratory.com



CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : DIGITAL THERMOHYGRO METER
MANUFACTURER : DIGICON
MODEL / TYPE : TH-02A
SERIAL NO. : 1919E0284991[DTH-01]
CLID. NO. : 232100200
JOB CONTROL NO. : 250408041414
CALIBRATION SERVICE : ☒ IN-LABORATORY ☐ ON-SITE

CUSTOMER : ENVIRONMENTAL MEASUREMENTS CO., LTD.

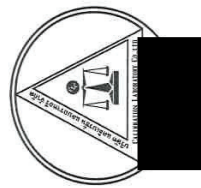
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 08 April 2025

DATE OF ISSUED : 11 April 2025

The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :



Approved By :

11 April 2025



MM-C08

CALIBRATION LABORATORY Co., LTD.

2/10-11, 14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cah-laboratory.com E-mail: sale@cah-laboratory.com



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Accredited
ISO/IEC 17025

CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : DIGITAL THERMOHYGRO METER
MANUFACTURER : DIGICON
MODEL / TYPE : TH-02A
SERIAL NO. : 1919E0284980[DTH-02]
CLID. NO. : 232100201
JOB CONTROL NO. : 250408041415
CALIBRATION SERVICE : ☒ IN-LABORATORY ☐ ON-SITE

CUSTOMER : ENVIRONMENTAL MEASUREMENTS CO., LTD.

5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 08 April 2025

DATE OF ISSUED : 11 April 2025

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Calibrated By :

Approved By :

11 April 2025

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q25041415

F3-011-05/12-23

page 1 of 3



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ISO/IEC 17025

CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION

MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of the measuring digital thermohygro meter.

CALIBRATION DATA

1. CORRECTION OF TEMPERATURE

Test point (° C)	Actual Temperature (° C)	DUC Reading (° C)	Correction (° C)	Uncertainty ± (° C)
20.0	20.00	19.6	+0.40	0.27
25.0	25.00	24.5	+0.50	
30.0	30.00	29.5	+0.50	

2. CORRECTION OF HUMIDITY

STD Temperature (° C)	STD Reading (%RH)	DUC Reading (%RH)	Correction (%RH)	Uncertainty ± (%RH)
25	40.0	30	+10.0	0.8
25	60.0	50	+10.0	0.8

Note: The Scope of Accredited ANAB Certificate No. ACDM-2814 Version 015 Page 60 of 68

This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q25041414

F3-011-05/12-23

page 3 of 3



@cdcalibration



CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION
MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of the measuring digital thermohygro meter.

CALIBRATION DATA

1. CORRECTION OF TEMPERATURE

Test point (° C)	Actual Temperature (° C)	DUC Reading (° C)	Correction (° C)	Uncertainty ± (° C)
20.0	20.00	19.7	+0.30	0.27
25.0	25.00	24.6	+0.40	
30.0	30.00	29.5	+0.50	

2. CORRECTION OF HUMIDITY

STD Temperature (° C)	STD Reading (%RH)	DUC Reading (%RH)	Correction (%RH)	Uncertainty ± (%RH)
25	40.0	33	+7.0	0.8
25	60.0	53	+7.0	0.8

Note. The Scope of Accredited ANAB Certificate No. ACDM-2814 Version 01.5 Page 60 of 68

This report is valid for the above stated instrument/s only.

End of Certificate



REPORT OF CALIBRATION

FOR

NOMENCLATURE : DIGITAL THERMOHYGRO METER
MANUFACTURER : DIGICON
MODEL / TYPE : TH-02A
SERIAL NO. : 1919E0284980(DTH-02)
DATE OF CALIBRATION : 10 April 2025

ENVIRONMENT CONDITIONS :

Temperature : $(23 \pm 2) ^\circ\text{C}$ **Relative Humidity** : $(55 \pm 10) \% \text{RH}$

PROCEDURE USED :

This instrument was calibrated under procedure No. CLC-CPTH-11. The calibration was performed by using Chilled Mirror Hygrometer which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

Chilled Mirror Hygrometer, Edgetech Model Dew Master S/N. 44602.
Temperature & Humidity Chamber, PGC Model 9141-5116 S/N. 1304261.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through Thunder Scientific Corporation.
Certificate No. 22724, Due Date 03 October 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2.00$ which for a normal distribution corresponds to a coverage probability of approximately 95 %.
It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"





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Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com E-mail:sale@cal-laboratory.com



REPORT OF CALIBRATION

FOR

NOMENCLATURE : WATER BATH
MANUFACTURER : M-LAB
MODEL / TYPE : WBN 15
SERIAL NO. : 0335[LA-007]
LOCATION SITE : LABORATORY - HOT ZONE
DATE OF CALIBRATION : 27 February 2025

ENVIRONMENT CONDITIONS :

Temperature : 24 °C to 25 °C Relative Humidity : 49% to 51%

PROCEDURE USED :

This instrument was calibrated under procedure No. W1-305-135 based on ASTM E 715-80:2016 as calibration guidelines.
The calibration was performed by using Hydra Data Logger which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

Hydra Data Logger, Fluke Model 2620 S/N. 5592550.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through Calibration Laboratory Co., Ltd.
Certificate No. Q24120965, Due Date 13 May 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2.00$ which for a normal distribution corresponds to a coverage probability of approximately 95 %.
It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q25018258

F3-011-05/12-23

page 2 of 4



@clcalibration



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CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : WATER BATH
MANUFACTURER : M-LAB
MODEL / TYPE : WBN 15
SERIAL NO. : 0335[LA-007]
CLID. NO. : 332300657
JOB CONTROL NO. : 250215018258
CALIBRATION SERVICE : ☐ IN-LABORATORY ☒ ON-SITE

CUSTOMER : ENVIRONMENTAL MEASUREMENTS CO., LTD.

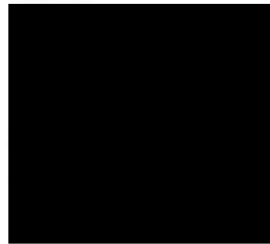
5/45 BAAN KIANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 15 February 2025

DATE OF ISSUED : 04 March 2025

The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :



Approved By :

04 March 2025

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q25018258

F3-011-05/12-23

page 1 of 4



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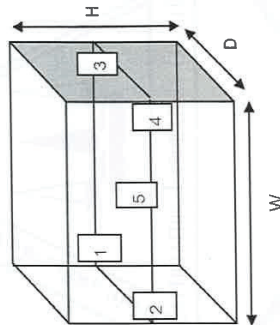
CALIBRATION DATA

2. TEMPERATURE DISTRIBUTION

Test Point (° C)	DUC Reading (° C)	STD Reading (° C)					Uncertainty ± (° C)
		Probe No. 1	Probe No. 2	Probe No. 3	Probe No. 4	Probe No. 5	
85.0	85.0	85.15	84.79	84.96	84.89	85.06	0.58

Technical Note : W = 35 cm, D = 30 cm, H = 15 cm.

The Scope of Accredited TISI Certificate No. 23-LB0092 Issue 02 Page 128 of 138



This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q25018258

F3-011-05/12-23

page 4 of 4



@clcalibration



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Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com E-mail: sale@cal-laboratory.com



CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION

MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of the measuring water bath.

CALIBRATION DATA

1. WATER BATH PERFORMANCE

Test Point (° C)	DUC Reading (° C)	Uniformity (° C)	Stability (° C)
85.0	85.0	0.40	0.28

Certificate No. Q25018258

F3-011-05/12-23

page 3 of 4



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Tel. 02-578-0353-4 Fax: 02-578-2672 www.cahlaboratory.com E-mail:sale@cahlaboratory.com



REPORT OF CALIBRATION

FOR

NOMENCLATURE : WATER BATH
MANUFACTURER : MEMMERT
MODEL / TYPE : WNB14
SERIAL NO. : L418.0758[LA-004]
LOCATION SITE : LABORATORY - HOT ZONE
DATE OF CALIBRATION : 27 February 2025

ENVIRONMENT CONDITIONS :

Temperature : 24 °C to 25 °C Relative Humidity : 49% to 51%

PROCEDURE USED :

This instrument was calibrated under procedure No. WI-305-135 based on ASTM E 715-80:2016 as calibration guidelines.
The calibration was performed by using Hydra Data Logger which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

Hydra Data Logger, Fluke Model 2620 S/N. 5592550.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through Calibration Laboratory Co., Ltd.
Certificate No. Q24120965, Due Date 13 May 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2.00$ which for a normal distribution corresponds to a coverage probability of approximately 95 %.
It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q25018257

F3-011-05/12-23

page 2 of 4



@clcalibration



CALIBRATION LABORATORY Co., LTD.

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Tel. 02-578-0353-4 Fax: 02-578-2672 www.cahlaboratory.com E-mail:sale@cahlaboratory.com



CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : WATER BATH
MANUFACTURER : MEMMERT
MODEL / TYPE : WNB14
SERIAL NO. : L418.0758[LA-004]
CLID. NO. : 332100157
JOB CONTROL NO. : 250215018257
CALIBRATION SERVICE : ☐ IN-LABORATORY ☒ ON-SITE

CUSTOMER :

ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 15 February 2025

DATE OF ISSUED : 04 March 2025

The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :



Approved By :

04 March 2025

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q25018257

F3-011-05/12-23

page 1 of 4



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MM-C08

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ISO/IEC 17025

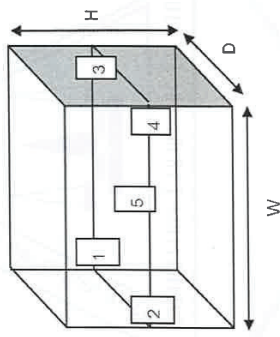
CALIBRATION DATA

2. TEMPERATURE DISTRIBUTION

Test Point (° C)	DUC Reading (° C)	STD Reading (° C)					Uncertainty ± (° C)
		Probe No. 1	Probe No. 2	Probe No. 3	Probe No. 4	Probe No. 5	
95.0	95.0	96.45	96.30	96.22	96.04	96.26	0.51

Technical Note : W = 35 cm, D = 29 cm, H = 14 cm.

The Scope of Accredited TISI Certificate No. 23-LB0092 Issue 02 Page 128 of 138



This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q25018257

F3-011-05/12-23

page 4 of 4



@clcalibration



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Tel. 02-578-0353-4 Fax: 02-578-2672 www.cah-laboratory.com E-mail: sale@cah-laboratory.com



CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION

MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of the measuring water bath.

CALIBRATION DATA

1. WATER BATH PERFORMANCE

Test Point (° C)	DUC Reading (° C)	Uniformity (° C)	Stability (° C)
95.0	95.0	0.39	0.17

Certificate No. Q25018257

F3-011-05/12-23

page 3 of 4



@clcalibration



ID LINE : IECT17025

Calibration Report

Certificate Number : SPR25050011-3

Page : 2 of 3

Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Data Acquisition/Switch Unit	34970A	MY44074688	SPR24080102-24	07 Sep 2025

Traceability

This certification is traceable to the International System of Unit maintained at :
SP Metrology - SP Metrology system (Thailand) Co.Ltd.



ID LINE : IECT17025

Certificate of Calibration

Certificate Number : SPR25050011-3

Page : 1 of 3

Customer : ENVIRONMENTAL MEASUREMENTS CO., LTD.

5/45 Baan Kiang Krung Biz Town, Soi Srinagarindra 46/1 (Pramote),

Nongbon Sub-district, Prawet District, Bangkok 10250

Equipment Name : Refrigerator

Manufacturer : Medicoool

Model : BB-117

Serial Number : BB117-190725001

ID. Number : LA-003

Environmental Conditions

Ambient Temperature : 25 °C ± 10 °C

Received Date : 02 May 2025

Relative Humidity : 60 % ± 20 %

Calibration Date : 06 May 2025

Location of Calibration : On-Site

Recommend Due Date : N/A

Calibration Procedure : SP-CPT-04-01

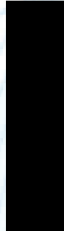
Date of Issue : 07 May 2025

Method of Calibration

This certifies that the above instrument was calibrated in compliance with the calibration system requirement of ISO/IEC 17025:2017 in accordance with reference procedure. Standards used to perform this calibration are certified by to NIST or equivalent, National metrology institute, Natural physical constants, consensus standards. The result reported herein apply only to the calibration of the item described above as received. Our decision rule is to contact the customer if the item pass and fail calibration when the results include the uncertainties and the customer must determine if the results meets their needs.

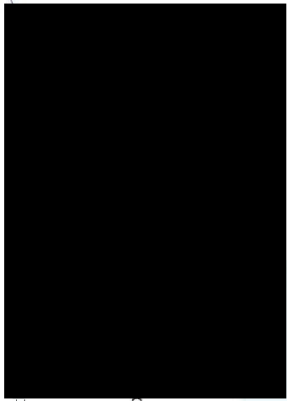
The calibration certificate shall not be reproduced except in full with the approval of SP Metrology System (Thailand).

Calibrated by



Calibration Officer

Approved by





MM-C08

CALIBRATION LABORATORY CO., LTD.

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Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com E-mail:sale@cal-laboratory.com



CERTIFICATE OF CALIBRATION

FOR

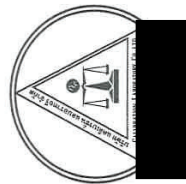
NOMENCLATURE : INCUBATOR
MANUFACTURER : ACCUPLUS
MODEL / TYPE : SMART i250
SERIAL NO. : 2059-0718-0010[LA-002]
CLID. NO. : 332100155
JOB CONTROL NO. : 250215018255
CALIBRATION SERVICE : ☐ IN-LABORATORY ☒ ON-SITE
CUSTOMER : ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 15 February 2025

DATE OF ISSUED : 04 March 2025

The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :



Approved By :

04 March 2025

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q25018255

F3-011-05/12-23

page 1 of 4



@clcalibration



a Trescal company



ID LINE: IEC17025

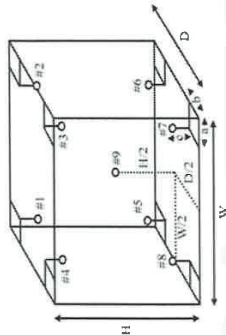
SP METROLOGY SYSTEM (THAILAND) CO.,LTD.



Result of Calibration

Certificate Number : SPR25050011-3

Page : 3 of 3



Temperature Accuracy in the Measurement Zone.

Unit : °C

UUC Setting	Measured Temperature (°C) @ Probe No. 9 is REF.)									Uncertainty (±)
	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	
4.0	3.37	4.12	4.25	4.13	3.93	3.98	3.95	4.23	4.16	0.60

Temperature Uniformity, Stability, Overall Variation

Unit : °C

UUC Setting	UUC Reading	Temperature Stability	Temperature Uniformity	Overall Variation
4.0	4.0	0.09	0.94	1.07

Note :

The result of calibration was found accurate as show on date and place of calibration only.
This Certificate is not certified for any commercial transaction.

Measurement Uncertainty

The reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor $k = 2$, providing a level of confidence approximately 95 %

– End of Certificate –

CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION

MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of the measuring incubator.

CALIBRATION DATA

1. INCUBATOR PERFORMANCE

DUC		Measured Uniformity (°C)	Measured Stability (°C)	Measured Overall Variation (°C)
Setting (°C)	Indicating (°C)			
20.0	20.0	0.43	0.34	0.98



@clcalibration

REPORT OF CALIBRATION

FOR

NOMENCLATURE : INCUBATOR
MANUFACTURER : ACCUPLUS
MODEL / TYPE : SMART i250
SERIAL NO. : 2059-0718-0010[LA-002]
LOCATION SITE : LABORATORY
DATE OF CALIBRATION : 27 February 2025

ENVIRONMENT CONDITIONS :

Temperature : 24 °C to 25 °C
Relative Humidity : 49 % to 51 %

PROCEDURE USED :

This instrument was calibrated under procedure No. WI-305-165 based on TLAS G-20-1/02-08 as calibration guidelines.
The calibration was performed by using Hydra Series II which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

Hydra Series II, Fluke Model 2635A S/N. 8209003.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through Calibration Laboratory Co., Ltd.
Certificate No. Q24052151, Due Date 27 May 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor complies with the table which for a normal distribution corresponds to a coverage probability of approximately 95 %.
It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"



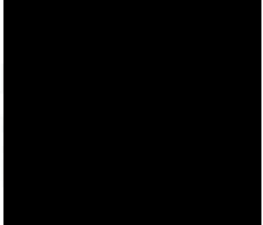
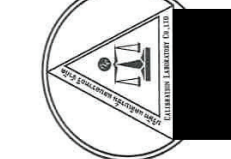
@clcalibration

CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : BALANCE
MANUFACTURER : SHIMADZU
MODEL / TYPE : AP225WD
SERIAL NO. : D316300692[LA-001]
CLID. NO. : 362100172
JOB CONTROL NO. : 250215018253
CALIBRATION SERVICE : ☐ IN-LABORATORY ☒ ON-SITE
CUSTOMER : ENVIRONMENTAL MEASUREMENTS CO., LTD.
5/45 BAAN KLANG KRUNG BIZ TOWN, SOI SRINAGARINDRA 46/1 (PRAMOTE),
NONG BON SUB-DISTRICT, PRAWET DISTRICT, BANGKOK 10250

DATE OF RECEIVED : 15 February 2025 DATE OF ISSUED : 04 March 2025
The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By : 
Approved By : 
04 March 2025

This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)
Certificate No. Q25018253
F3-011-05/12-23
page 1 of 3

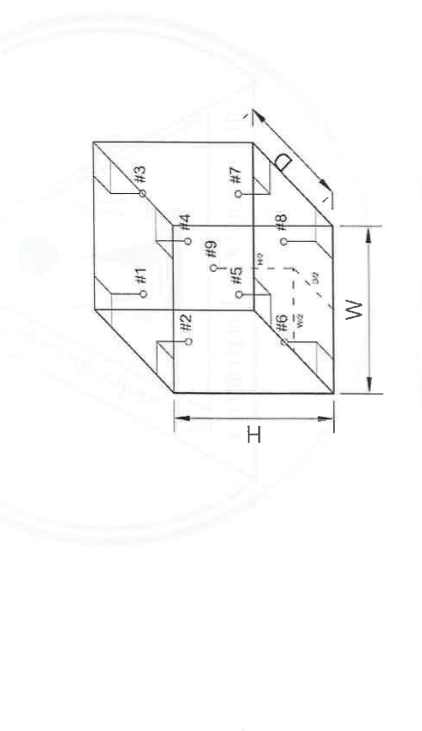


2. TEMPERATURE DISTRIBUTION

CALIBRATION DATA

DUC	Measured Temperature (°C)@Probe No.9 is Ref.									Uncertainty ± (°C)	Coverage factor k
	Setting (°C)	Indicating (°C)	1	2	3	4	5	6	7	8	9
20.0	20.0	20.55	20.53	20.57	20.51	20.59	20.52	20.40	20.47	20.27	0.58
											2.00

Technical Note : W = 50 cm, D = 48 cm, H = 110 cm.
The Scope of Accredited TISI Certificate No. 23-LB0092 Issue 02 Page 129 of 138



This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q25018255
F3-011-05/12-23





CALIBRATION LABORATORY CO., LTD.
2/10-11, 14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel: 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com Email:sale@cal-laboratory.com
CLC
Accredited
1867/IEC: 17025

CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION
MEASUREMENT RESULTS : (X) without adjustment () adjustment
CALIBRATION DATA

1. Error of indications

Nominal Test Value (g)	Conventional mass (g)	Display Value (g)	Error of Balance (g)	Uncertainty \pm (mg)	Coverage factor k
Unload	0.0000	0.0000	0.0000	0.07	2.00
5.0000	5.0000	5.0001	+0.0001	0.11	2.00
10.0000	10.0000	10.0000	0.0000	0.11	2.00
20.0000	20.0000	20.0000	0.0000	0.12	2.00
40.0000	40.0000	39.9999	-0.0001	0.14	2.00
60.0000	59.9999	59.9999	0.0000	0.15	2.00
80.0000	79.9999	80.0000	+0.0001	0.19	2.00
100.0000	99.9999	100.0000	+0.0001	0.17	2.00
120.0000	119.9999	120.0000	+0.0001	0.21	2.00
140.0000	139.9999	139.9999	0.0000	0.25	2.00
160.0000	159.9998	159.9998	0.0000	0.26	2.00
180.0000	179.9998	179.9998	0.0000	0.30	2.00
200.0000	199.9997	199.9996	-0.0001	0.26	2.00

2. Repeatability of indications

Nominal Test Value (g)	Standard Deviation of Reading (g)
200.0000	0.00006

3. Effect of eccentric application of a load on the indication

	<input checked="" type="checkbox"/>				
Nominal Test Value (g)	Display Value (g)				
100.0000	Position 1	Position 2	Position 3	Position 4	Position 5
	100.0000	99.9999	100.0000	100.0001	100.0000
					Maximum Difference of Center Value (g)
					0.0001

Note. The Scope of Accredited TISI Certificate No. 23-1B0092 Issue 02 Page 116,117 of 138

This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q25018253
F3-011-05/12-23



page 3 of 3
@clcalibration



CALIBRATION LABORATORY CO., LTD.
2/10-11, 14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel: 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com Email:sale@cal-laboratory.com
CLC
Accredited
1867/IEC: 17025

REPORT OF CALIBRATION

FOR

NOMENCLATURE : **BALANCE**
MANUFACTURER : **SHIMADZU**
MODEL / TYPE : **AP225WD**
SERIAL NO. : **D316300692[LA-001]**
LOCATION SITE : **LABORATORY-BALANCE ROOM**
DATE OF CALIBRATION : **27 February 2025**

ENVIRONMENT CONDITIONS :

Temperature : **23 °C to 24 °C** **Relative Humidity** : **49 % to 51 %**

PROCEDURE USED :

This instrument was calibrated under procedure No. **WI-305-46** based on **EURAMET/cg-18/Version 4.0 (11/2015)**.
The calibration was performed by Comparison with Weight Set which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

Weight Set, Mettler Toledo Class E2 S/N. 158850.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through National Institute of Metrology (Thailand).
Certificate No. MM-0165-23, Due Date 21 December 2025.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty multiplied by the coverage factor complies with the table which for a normal distribution corresponds to a coverage probability of approximately 95%. It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q25018253
F3-011-05/12-23



page 2 of 3
@clcalibration

Request No. : 22-68 / 0059
Serial No. : A.067438

MTC No. : PSL-P 0019 / 68

Results :

UUC Range (lux)	Standard (lux)	*UUC Reading Before Adj.(lux)	UUC Reading After Adj.(lux)	Uncertainty of Measurement ± (lux)
2000	100	103	104	2.0
	500	502	505	10
	1000	992	1000	20
	1500	1486	1497	30
	2000	1972	1994	40
20000 (×10)	2000	197	200	40
	3000	296	300	60
	4000	391	397	80
	5000	490	497	100

Note : *UUC = Unit Under Calibration.

...end of certificate...

Photometry and Temperature Standards Laboratory

Ref : 2012267102803899001

Issued date : 4 November 2024

page 2 of 2

The results relate only to the items tested/calibrated or value assigned.

Advertising the Report/Certificate and publicity of the results except in full are prohibited unless written permission is obtained from the governor of TISTR.

u.17/33

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35 Mu 3 Tambon Khlong Ha, Amphoe Khlong Luang,
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Fax. (66) 0 2577 9009

Office/Laboratory
668 Mu 2 Tambon Bangpoornai, Amphoe Muang Samutprakan,
Changwat Samutprakan 10280, Thailand
Tel. (66) 0 2323 1672-80 ext. 115, 116
E-mail : mtc@tistr.or.th Website : www.tistr.or.th

Office
196 Phahonyothin Road, Ladysao, Chatuchak,
Bangkok 10900, Thailand
Tel. (66) 0 2579 1121-30 ext. 5219, 5225, 5217
(66) 08 1889 6827

FM.BLMTC.002 Rev.5

Request No. : 22-68 / 0059

MTC No. : PSL-P 0019 / 68

CERTIFICATE OF CALIBRATION

Nomenclature : Digital Lux Meter

Serial No. : A.067438

Model : 407026

Maker : EXTECH Instruments

Customer : ENVIRONMENTAL MEASUREMENTS CO., LTD.

Address : 5/45 Baan Klang Krung Biz Town, Soi Srinagarindra 46/1 (Pranote), Nong Bon Sub-District

Prawet District, Bangkok 10250

Date of receipt : 28 October 2024

Date of calibration : 4 November 2024

Place of calibration : Photometry and Temperature Standards Laboratory, MTC. (Bangpoo)

Basis of calibration : calibration at 0 ~ 5000 lux.

Condition of calibration : - Ambient temperature : (25 ± 2) °C

- Relative humidity : (60 ± 20) %

Reference Standard :

Working Standard Luminous Intensity Lamp, Serial No.: FEL003 and 3501,

can be traceable to international system of units (SI), through calibration certificate

MTC No. PSL-P 0151/67 and PSL-P 0152/67, date of calibration 10 May 2024.

Traceability : This certificate is traceable to SI units through the National Institute of Metrology (Thailand)

calibration certificate No. TP-1010-23, TP-1011-23 and TP-1012-23

Support Equipment :

1. Photometric bench , 3.0 meter long

2. DC power supply, Serial No.: BC - 341006035007/2

3. Digital Multimeter , Model : R 6551 , S/N : 92041186 and 92041192

Calibration Procedure : The measurement was done in accordance with WI.CP.10.

The reported uncertainty is based on a standard uncertainty multiplied by a coverage

factor $k = 2$, providing a level of confidence of approximately 95 %.

page 1 of 2

The results relate only to the items tested/calibrated or value assigned.

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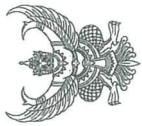
FM.BLMTC.002 Rev.5

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35 Mu 3 Tambon Khlong Ha, Amphoe Khlong Luang,
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Bangkok 10900, Thailand
Tel. (66) 0 2579 1121-30 ext. 5219, 5225, 5217
(66) 08 1889 6827

ที่ อก ๐๓๑๐(๑)/ ๑ ๐ ๘ ๙



กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐ ๗ กุมภาพันธ์ ๒๕๖๕

เรื่อง ดออายุหนึ่งสื้อรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท ยูไนเต็ด แอนนาลิสต์ แอนด์ เอ็นจิเนียริง คอนซัลแตนท์ จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารเคมีของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๓ ธันวาคม ๒๕๖๗

สิ่งที่ส่งมาด้วย ๑. รายชื่อผู้ควบคุมห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๔๐ ราย
๒. รายชื่อเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑๔๑ ราย
๓. ขอบข่ายสารเคมีที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม

ตามคำขอที่อ้างถึง บริษัท ยูไนเต็ด แอนนาลิสต์ แอนด์ เอ็นจิเนียริง คอนซัลแตนท์ จำกัด ขอต่ออายุ
หนึ่งสื้อรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ๖-๑๔๕ สถานที่ตั้งเลขที่ ๓ ซอยอุดมสุข ๔๑
ถนนสุขุมวิท แขวงบางจาก เขตพระโขนง กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท ยูไนเต็ด แอนนาลิสต์ แอนด์ เอ็นจิเนียริง
คอนซัลแตนท์ จำกัด ต่ออายุหนึ่งสื้อรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

- ก. ผู้ควบคุมห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๔๐ ราย ตามสิ่งที่ส่งมาด้วย ๑
- ข. เจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑๔๑ ราย ตามสิ่งที่ส่งมาด้วย ๒
- ค. ขอบข่ายสารเคมีที่ได้รับขึ้นทะเบียนไว้วิเคราะห์ในน้ำ/น้ำเสีย น้ำใต้ดิน อากาศเสีย
สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย ๓

หนึ่งสื้อฉบับนี้จะหมดอายุในวันที่ ๒ กุมภาพันธ์ ๒๕๗๒ หากประสงค์ต่ออายุหนึ่งสื้อ
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงาน
อุตสาหกรรมภายใน ๖๐ วัน ก่อนวันสิ้นอายุของหนึ่งสื้อรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ



กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบแลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๔๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@dlw.mail.go.th

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบแลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๔๙

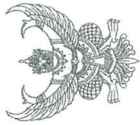
ไปรษณีย์อิเล็กทรอนิกส์ saraban@dlw.mail.go.th



“อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว”



ที่ อก ๐๓๑๐(๑)/ ๑ ๔ ๙ ๑



กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒ ๔ กุมภาพันธ์ ๒๕๖๕

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท ยูไนเต็ด แอนนาลิสต์ แอนด์ เอ็นจิเนียริง คอนซัลแตนท์ จำกัด

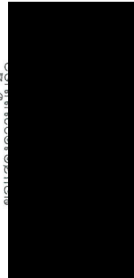
อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารเคมีของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๑๘ กุมภาพันธ์ ๒๕๖๔

ตามคำขอที่อ้างถึง บริษัท ยูไนเต็ด แอนนาลิสต์ แอนด์ เอ็นจิเนียริง คอนซัลแตนท์ จำกัด
ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ๖-๑๔๕ สถานที่ตั้งเลขที่ ๓ ซอยอุดมสุข ๔๑ ถนนสุขุมวิท
แขวงบางจาก เขตพระโขนง กรุงเทพมหานคร ขอยกเลิกบุคลากร ความละเอียดแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน
จำนวน ๓ ราย ได้แก่

ทะเบียนเลขที่ ๖-๑๔๕-จ-๐๐๕๘
ทะเบียนเลขที่ ๖-๑๔๕-จ-๐๑๓๐
ทะเบียนเลขที่ ๖-๑๔๕-จ-๐๑๔๘

จึงเรียนมาเพื่อทราบ



กองวิจัยและเตือนภัยมลพิษโรงงาน
อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบแลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

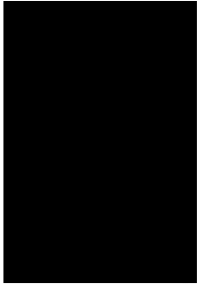
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๔๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@dlw.mail.go.th



“อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว”





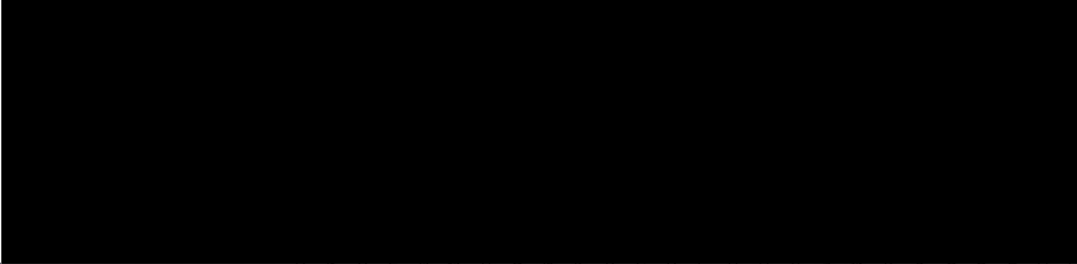
ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๔๐
ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๔๑
ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๔๒
ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๔๓
ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๔๔



UAE
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เอกสารแนบท้ายหนังสือขออายุรับขึ้นทะเบียนขึ้นห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท ยูไนเต็ด แอนาไลซิส แอนด์ เอ็นจิเนียริง คอนซัลแตนท์ จำกัด เลขทะเบียน ว-๑๔๕-
ที่ อก ๐๓๑๐(๑)/ ๑ ๐ ๘ ๙ ลงวันที่ ๐๗ กุมภาพันธ์ ๒๕๖๕

ก. ผู้ควบคุมห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๔๐ ราย



- ๑) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๐๑
- ๒) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๐๒
- ๓) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๐๓
- ๔) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๐๔
- ๕) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๐๖
- ๖) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๐๗
- ๗) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๐๘
- ๘) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๐๙
- ๙) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๐
- ๑๐) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๑
- ๑๑) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๒
- ๑๒) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๔
- ๑๓) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๕
- ๑๔) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๖
- ๑๕) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๗
- ๑๖) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๘
- ๑๗) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๑๙
- ๑๘) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๐
- ๑๙) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๑
- ๒๐) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๒
- ๒๑) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๓
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- ๒๓) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๕
- ๒๔) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๖
- ๒๕) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๗
- ๒๖) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๘
- ๒๗) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๒๙
- ๒๘) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๓๐
- ๒๙) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๓๑
- ๓๐) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๓๒
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- ๓๓) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๓๕
- ๓๔) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๓๖
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- ๓๘) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๔๐
- ๓๙) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๔๑
- ๔๐) ทะเบียนเลขที่ ว-๑๔๕-ค-๐๐๔๒



๓๖) นายนาคินทร์...

เอกสารแบบท้ายหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท ยูไนเต็ด แอนนาลิสต์ แอนด์ เอ็นจิเนียริง คอมพิวเตอร์ จำกัด เลขทะเบียน ว-๑๕๕
ที่ อก ๐๓๑๐(๑)/ ๑ ๐ ๘ ๙ ลงวันที่ ๐๗ กุมภาพันธ์ ๒๕๖๕

ข. เจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑๔๑ ราย

๓๖	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๔๗
๓๗	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๔๘
๓๘	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๔๙
๓๙	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๐
๔๐	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๑
๔๑	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๒
๔๒	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๓
๔๓	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๔
๔๔	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๕
๔๕	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๖
๔๖	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๗
๔๗	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๘
๔๘	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๕๙
๔๙	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๐
๕๐	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๑
๕๑	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๒
๕๒	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๓
๕๓	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๔
๕๔	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๕
๕๕	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๖
๕๖	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๗
๕๗	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๘
๕๘	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๖๙
๕๙	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๐
๖๐	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๑
๖๑	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๒
๖๒	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๓
๖๓	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๔
๖๔	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๕
๖๕	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๖
๖๖	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๗
๖๗	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๘
๖๘	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๗๙
๖๙	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๘๐
๗๐	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๘๑
๗๑	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๘๒
๗๒	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๘๓
๗๓	ทะเบียนเลขที่	ว-๑๕๕-จ-๐๐๘๔

๗๔) นายนิพนธ์วัฒน์...

[illegible][illegible]

เอกสารแนบท้ายหนังสือขอรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
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ที่ อก ๐๓๑๐(๑) ๑ ๐ ๘ ๙ ลงวันที่ ๐๗ กุมภาพันธ์ ๒๕๖๘

ขอขายสารเคมีที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๕๗ รายการ

แนบท้าย จำนวน 46 รายการ

ลำดับ	สารเคมี	วิธีวิเคราะห์
1	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
2	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
3	Barium	Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
4	α-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
5	β-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
6	δ-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
7	γ-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
8	Biochemical Oxygen Demand	1) 5-Day BOD Test, Azide Modification Method ⁽⁴⁾ 2) 5-Day BOD Test, Membrane Electrode Method ⁽⁴⁾
9	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
10	Chemical Oxygen Demand	1) Closed Reflux, Titrimetric Method ⁽⁴⁾ 2) Closed Reflux, Colorimetric Method ⁽⁴⁾ 3) Open Reflux, Titrimetric Method ⁽⁴⁾
11	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
12	Chromium	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
13	Color	ADMI Weighted-Ordinate Spectrophotometric Method ⁽⁴⁾
14	Copper	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
15	Cyanide	1) Distillation, Colorimetric Method ⁽⁴⁾ 2) Total Cyanide after Distillation, by Flow Injection Analysis Method ⁽⁴⁾
16	o,p'-DDT	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
17	4,4'-DDD	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
18	4,4'-DDE	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
19	4,4'-DDT	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
20	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
21	Endosulfan I	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
22	Endosulfan II	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
23	Endosulfan sulfate	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
24	Endrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾

25 Endrin aldehyde...

ลำดับ	สารเคมี	วิธีวิเคราะห์
25	Endrin aldehyde	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
26	Formaldehyde	Distillation, Colorimetric Method ⁽²⁾
27	Free Chlorine	1) Iodometric Method ⁽⁴⁾ 2) DPD Ferrous Titrimetric Method ⁽⁴⁾
28	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
29	Heptachlor Epoxide	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
30	Hexavalent Chromium	Colorimetric Method ⁽⁴⁾
31	Lead	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
32	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
33	Mercury	1) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾ Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽⁴⁾
34	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
35	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
36	Oil & Grease	1) Liquid-Liquid, Partition-Gravimetric Method ⁽⁴⁾ 2) Soxhlet Extraction Method ⁽⁴⁾
37	pH	Electrometric Method ⁽⁴⁾
38	Phenols	1) Distillation, Chloroform Extraction Method ⁽⁴⁾ 2) Distillation, Direct Photometric Method ⁽⁴⁾
39	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
40	Sulfide	1) Iodometric Method ⁽⁴⁾ 2) Methylene Blue Method ⁽⁴⁾
41	Temperature	Laboratory and Field Methods ⁽⁴⁾
42	Total Dissolved Solids	Dried at 180 °C ⁽⁴⁾
43	Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method ⁽⁴⁾
44	Total Suspended Solids	Dried from 103 to 105 °C ⁽⁴⁾
45	Trivalent Chromium	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ Colorimetric Method, Calculation ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾ Colorimetric Method, Calculation ⁽⁴⁾
46	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾

แนบท้าย...

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ลำดับ	สารมลพิษ	วิธีวิเคราะห์
14	Benzo(a)pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
15	Benzo(g,h,i)perylene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
16	Beryllium	Digestion, Inductively Coupled Plasma Method ^(a)
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
20	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
21	Butanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method ^(a) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(a)
24	Carbazole	3) Digestion, Inductively Coupled Plasma Method ^(a) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
25	Carbon disulfide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
27	Chlordane	1) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)

29 Chlorobenzene...

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แนบได้ฉบับ จำนวน 126 รายการ

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
2	Acetone	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
3	Aldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
4	Anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
5	Antimony	Digestion, Inductively Coupled Plasma Method ^(a)
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(a) 2) Digestion, Inductively Coupled Plasma Method ^(a)
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
8	Barium	Digestion, Inductively Coupled Plasma Method ^(a)
9	Benz(a)anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
10	Benzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
11	Benzo(b)fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
12	Benzo(k)fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)

14 Benzo(a)pyrene...

ลำดับ	สารเคมี	วิธีวิเคราะห์
43	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
44	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
45	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
46	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
47	3,3'-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
51	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
52	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
54	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
56	1,3-Dichloropropene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾

61 2,4-Dinitrotoluene...

ลำดับ	สารเคมี	วิธีวิเคราะห์
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
31	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
34	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ⁽⁴⁾
35	Chromium (VI)	Colorimetric Method ⁽⁴⁾
36	Chrysene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
37	Cyanide	Distillation, Colorimetric Method ⁽⁴⁾
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
39	DDD	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
40	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
42	Dibenz(a,h)anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾

43 Di-n-butyl phthalate...

ลำดับ	สารเคมี	วิธีวิเคราะห์
74	α -HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
75	β -HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
76	γ -HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
77	Hexachlorocyclopentadiene	1) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
78	Hexachloroethane	1) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
79	Indeno(1,2,3-cd)pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method ^(a) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(a)
82	Manganese	3) Digestion, Inductively Coupled Plasma Method ^(a) 1) Digestion, Direct Air-Acetylene Flame Method ^(a) 2) Digestion, Inductively Coupled Plasma Method ^(a)
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(a)
84	Methanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
85	Methoxychlor	1) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
86	Methyl bromide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)

87 Methylene chloride...

ลำดับ	สารเคมี	วิธีวิเคราะห์
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
63	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
65	Endrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
66	Ethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
67	Fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
68	Fluorene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
69	Heptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
71	Hexachlorobenzene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(a)
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)
73	n-Hexane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^(a)

74 α -HCH...

ลำดับ	สารเคมี	วิธีวิเคราะห์
100	Phenol	1) Distillation, Chloroform Extraction Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
103	Silver	Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
104	Styrene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
107	Toluene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
108	Toxaphene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
109	TPH (C ₅ - C ₆)	1) Purge and Trap, Gas Chromatographic Method ^(12,22) 2) Purge and Trap, Gas Chromatographic/Mass spectrometric Method ^(12,27)
110	TPH (C ₈ - C ₁₆)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(9,22)
111	TPH (C ₁₆ - C ₃₅)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(9,22)
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
115	Trichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾

ลำดับ	สารเคมี	วิธีวิเคราะห์
87	Methylene chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
89	2-Methylnaphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
95	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1232 - PCB-1242 - PCB-1248 - PCB-1254 - PCB-1260	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
98	pH	Electrometric Method ⁽⁴⁾
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
6	Chromium (๓๖)	2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
7	Cobalt	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
8	Copper	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
9	Cresol	Absorption Sampling, Gas Chromatographic Method ^[5]
10	Dioxins/Furans	Isokinetic Sampling ^[5]
11	Hydrogen Chloride	Isokinetic Sampling, Ion Chromatographic Method ^[5]
12	Hydrogen Fluoride	Isokinetic Sampling, Ion Chromatographic Method ^[5]
13	Hydrogen Sulfide	Absorption Sampling, Iodometric Method ^[5]
14	Lead	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
15	Manganese	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
16	Mercury	Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[5]
17	Nickel	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
18	Opacity	Ringelmann's Method ^[1]
19	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic acid Method ^[5] 2) Instrumental Analyzer Method ^[5]
20	Selenium	1) Isokinetic Sampling, Digestion, Inductively Coupled Atomic Absorption Spectrometric Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
21	Sulfur Dioxide	1) Absorption Sampling, Barium-Magnesium Method ^[5] 2) Instrumental Analyzer Method ^[5]
22	Sulfuric Acid	Isokinetic Sampling, Barium-Thorium Method ^[5]

23 Total Suspended Particulate...

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[4]
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[4]
118	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^[4]
119	Vanadium	Digestion, Inductively Coupled Plasma Method ^[4]
120	Vinyl acetate	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^[4]
121	Vinyl chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^[4]
122	m-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^[4]
123	o-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^[4]
124	p-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^[4]
125	Xylene (Total)	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ^[4]
126	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ^[4] 2) Digestion, Inductively Coupled Plasma Method ^[4]

อากาศเสีย (ปล่อยระบาย) จำนวน 25 รายการ

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
2	Arsenic	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
3	Cadmium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
4	Carbon Monoxide	Isokinetic Sampling, Ion Chromatographic Method ^[5]
5	Chlorine	Isokinetic Sampling, Ion Chromatographic Method ^[5]
6	Chromium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]

Chromium (๓๖)...

ลำดับ	สารเคมี	วิธีวิเคราะห์
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3.6.15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3.6.14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 4) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.15,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.14,17) 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,15,17) 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,14,17)
9	Chromium (III)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3.6.15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 4) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.15,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.14,17) 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,15,17) 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,14,17)
10	Chromium (VI)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3.6.15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 4) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.15,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.14,17) 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,15,17) 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,14,17)
11	Cobalt	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3.6.15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 4) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.15,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.14,17) 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,15,17) 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,14,17)
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3.6.15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 4) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.15,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.14,17) 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,15,17) 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,14,17)
13	2,4-D	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3.6.15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 4) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.15,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.14,17) 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,15,17) 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,14,17)
14	DDD	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3.6.15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 4) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.15,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^(3.6.14,17) 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,15,17) 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,14,17)

ลำดับ	สารเคมี	วิธีวิเคราะห์
23	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method ⁽⁵⁾
24	Vanadium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁽⁵⁾
25	Xylene	1) Bag Sampling, Gas Chromatographic Method ⁽⁵⁾ 2) Adsorption Sampling, Gas Chromatographic Method ⁽⁵⁾

สิ่งปลูกสร้างหรือวัตถุที่ใช้แล้ว จำนวน 35 รายการ

ลำดับ	สารเคมี	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Separatory Funnel, Liquid-Liquid Extraction, Gas Chromatographic Method ^(3.9,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
2	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3.6,14) 2) Digestion, Inductively Coupled Plasma Method ^(7.14)
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(3.6,16) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3.6,14) 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7.16)
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3.6,14)
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3.6,14)
6	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(7.14) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3.6,15) 3) Digestion, Inductively Coupled Plasma Method ^(7.14) 4) Digestion, Inductively Coupled Plasma Method ^(3.6,15)
7	Chlordane	1) Waste Extraction, Separatory Funnel, Liquid-Liquid Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
22	Mercury (ต่อ)	5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ⁽²⁰⁾
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(3,9,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
24	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3,6,14) 2) Digestion, Inductively Coupled Plasma Method ^(7,14)
25	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3,6,15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3,6,14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 4) Digestion, Inductively Coupled Plasma Method ^(7,14)
26	Polychlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',5'-Trichlorobiphenyl - 2,4',5'-Trichlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4,6'-Pentachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(3,9,24) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,24)



Polychlorinated Biphenyls(ต่อ)...

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(3,9,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(3,9,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(3,9,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(3,9,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(3,9,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(3,6,15) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3,6,14) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 4) Digestion, Inductively Coupled Plasma Method ^(7,14)
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(3,9,23) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
22	Mercury	1) Waste Extraction, Digestion, Cold Vapor Atomic Absorption Spectrometric Method ^(3,6,14) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(3,6,14) 3) Digestion, Cold Vapor Atomic Absorption Spectrometric Method ⁽¹⁹⁾ 4) Digestion, Inductively Coupled Plasma Method ^(10,23)

Mercury (ต่อ)...

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
32	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^[3.9.23] 2) Ultrasonic Extraction, Gas Chromatographic Method ^[10.23]
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[3.12.27] 2) Waste Extraction, Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^[3.11.27] 3) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[3.3.27] 4) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^[1.1.27]
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[3.6.14] 2) Digestion, Inductively Coupled Plasma Method ^[7.14]
35	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[3.6.15] 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[3.6.14] 3) Digestion, Flame Atomic Absorption Spectrometric Method ^[7.15] 4) Digestion, Inductively Coupled Plasma Method ^[7.14]

ดิน จำนวน 125 รายการ

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^[10.25] 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10.28]
2	Acetone	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[13.27]
3	Aldrin	1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10.23] 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10.28]
4	Anthracene	1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10.25]

Anthracene (ต่อ)...

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
	Polychlorinated Biphenyls(ต่อ) - 2,2',3,4,4',5'- Hexachlorobiphenyl - 2,2',3,4,5,5'- Hexachlorobiphenyl - 2,2',3,5,5',6'- Hexachlorobiphenyl - 2,2',4,4',5,5'- Hexachlorobiphenyl - 2,2',3,3',4,4',5'- Heptachlorobiphenyl - 2,2',3,4,4',5,5'- Heptachlorobiphenyl - 2,2',3,4,4',5',6'- Heptachlorobiphenyl - 2,2',3,4',5,5',6'- Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6'- Nonachlorobiphenyl Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[3.9.28] 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10.28] Electrometric Method ^[3.1.32] 1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^[3.6.21] 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[3.6.14] 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^[7.21] 4) Digestion, Inductively Coupled Plasma Method ^[3.6.14] 1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[3.6.14] 2) Digestion, Inductively Coupled Plasma Method ^[3.6.14] 1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[3.6.14] 2) Digestion, Inductively Coupled Plasma Method ^[3.6.14]
27		
28	pH	
29	Selenium	
30	Silver	
31	Thallium	

32 Toxaphene...

ลำดับ	สารเคมี	วิธีวิเคราะห์
17	Bis(2-chloroethyl)ether	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
18	Bis(2-ethylhexyl)phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
20	Bromoform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
21	Butanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
22	Butyl benzyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
23	Cadmium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Inductively Coupled Plasma Method ^(7,14)
24	Carbazole	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
26	Carbon tetrachloride	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
27	Chlordane	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
28	p-Chloroaniline	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
29	Chlorobenzene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
31	Chloroform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
32	2-Chlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)

33 Chromium...

ลำดับ	สารเคมี	วิธีวิเคราะห์
4	Anthracene (คอ)	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
5	Antimony	Digestion, Inductively Coupled Plasma Method ^(7,14)
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7,16) 2) Digestion, Inductively Coupled Plasma Method ^(7,14)
7	Atrazine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
8	Barium	Digestion, Inductively Coupled Plasma Method ^(7,14)
9	Benz(a)anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
10	Benzene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
11	Benzo(b)fluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
12	Benzo(k)fluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
13	Benzoic acid	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
14	Benzo(a)pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
15	Benzo(g,h,i)perylene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
16	Beryllium	Digestion, Inductively Coupled Plasma Spectrometric Method ^(10,28)

17 Bis(2-chloroethyl)ether...

ลำดับ	สารเคมี	วิธีวิเคราะห์
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
47	3,3'-Dichlorobenzidine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
48	1,1-Dichloroethane	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
49	1,2-Dichloroethane	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
50	1,1-Dichloroethylene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
51	cis-1,2-Dichloroethylene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
52	trans-1,2-Dichloroethylene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
53	2,4-Dichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
57	Dieldrin	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)

58 Diethyl phthalate...

ลำดับ	สารเคมี	วิธีวิเคราะห์
33	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Inductively Coupled Plasma Method ^(7,16)
34	Chromium (III)	1) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7,8,15,17) 2) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7,8,14,17)
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method ^(8,17)
36	Chrysene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
37	Cyanide	Extraction, Distillation, Colorimetric Method ^(29,30)
38	2,4-D	Ultrasonic Extraction, Gas Chromatographic Method ⁽²⁶⁾
39	DDD	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
40	DDE	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
41	DDT	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
42	Dibenz(a,h)anthracene	1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
43	Di-n-butyl phthalate	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
44	1,2-Dichlorobenzene	Ultrasonic Extraction, Gas Chromatographic Method ^(10,28) Purge and Trap, Gas Chromatographic Method ^(13,27)

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
70	Heptachlor epoxide (ต่อ)	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
71	Hexachlorobenzene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
73	n-Hexane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
74	α-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
75	β-HCH	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
76	γ-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
77	Hexachlorocyclopentadiene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
78	Hexachloroethane	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
79	Indeno(1,2,3-cd)pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
80	Isophorone	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
81	Lead	1) Digestion, Flame Atomic Absorption Method ^(7,15) 2) Digestion, Inductively Coupled Plasma Atomic Absorption Method ^(7,15)
82	Manganese	1) Digestion, Flame Atomic Absorption Method ^(7,15) 2) Digestion, Inductively Coupled Plasma Atomic Absorption Method ^(7,15)

83 Mercury...

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
58	Diethyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
59	2,4-Dimethylphenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
60	2,4-Dinitrophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
61	2,4-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
62	2,6-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
63	Di-n-Octyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
64	Endosulfan	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
65	Endrin	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
66	Ethylbenzene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
67	Fluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
68	Fluorene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
69	Heptachlor	1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
70	Heptachlor epoxide	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)

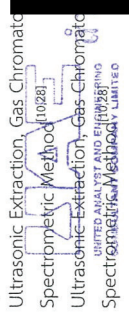
Heptachlor epoxide (ต่อ)...

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
96	Polychlorinated Biphenyls(๓๐) - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 Polychlorinated Biphenyls - 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',5-Trichlorobiphenyl - 2,4',5-Trichlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'- Pentachlorobiphenyl - 2,2',4,5,5'- Pentachlorobiphenyl - 2,3,3',4',6- Pentachlorobiphenyl - 2,2',3,4,4',5'- Hexachlorobiphenyl - 2,2',3,4,5,5'- Hexachlorobiphenyl - 2,2',3,5,5',6- Hexachlorobiphenyl - 2,2',4,4',5,5'- Hexachlorobiphenyl - 2,2',3,3',4,4',5- Heptachlorobiphenyl - 2,2',3,4,4',5,5'- Heptachlorobiphenyl - 2,2',3,4,4',5',6- Heptachlorobiphenyl - 2,2',3,4',5,5',6- Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6- Nonachlorobiphenyl	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28) Ultrasonic Extraction, Gas Chromatographic Method ^(10,24)



97 Pentachlorophenol...

ลำดับ	สารมลพิษ	วิธีวิเคราะห์
83	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽¹⁹⁾ 2) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ⁽²⁰⁾ Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
84	Methanol	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,23)
85	Methoxychlor	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
86	Methyl bromide	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
87	Methylene chloride	2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
88	2-Methylphenol	Spectrometric Method ^(10,28)
89	2-Methylnaphthalene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
90	Methyl tert-butyl ether	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(13,27)
91	Naphthalene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,25) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
92	Nickel	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Inductively Coupled Plasma Method ^(7,14)
93	Nitrobenzene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10,28)
94	N-Nitrosodiphenylamine	Ultrasonic Extraction, Gas Chromatographic Method ^(10,28)
95	N-Nitrosodi-n-propylamine	Ultrasonic Extraction, Gas Chromatographic Method ^(10,28)
96	Polychlorinated Biphenyls - Aroclor 1016	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10,24)



Polychlorinated Biphenyls(๓๖)...

ลำดับ	สารเคมี	วิธีวิเคราะห์
111	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27)
112	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27)
113	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27)
114	Trichloroethylene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)
115	2,4,5-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10.28)
116	2,4,6-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10.28)
117	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27)
118	Vanadium	Digestion, Inductively Coupled Plasma Method ^(7.14)
119	Vinyl acetate	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27)
120	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27)
121	m-Xylene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)
122	o-Xylene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)
123	p-Xylene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)
124	Xylene (Total)	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)

125 Zinc...

ลำดับ	สารเคมี	วิธีวิเคราะห์
97	Pentachlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10.28)
98	Phenanthrene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10.25) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10.28)
99	Phenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10.28)
100	Pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(10.25) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(10.28)
101	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7.21) 2) Digestion, Inductively Coupled Plasma Method ^(7.14)
102	Silver	Digestion, Inductively Coupled Plasma Method ^(7.14)
103	Styrene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27)
105	Tetrachloroethylene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)
106	Toluene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)
107	Toxaphene	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13.27) 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(11.27)
108	TPH (C ₅ -C ₈)	Ultrasonic Extraction, Gas Chromatographic Method ^(10.23)
109	TPH (C ₈ -C ₁₆)	1) Purge and Trap, Gas Chromatographic Method ^(13.27) 2) Purge and Trap, Gas Chromatographic Method ^(13.27)
110	TPH (C ₁₆ -C ₃₃)	Ultrasonic Extraction, Gas Chromatographic Method ^(13.27)

111 1,2,4-Trichlorobenzene...

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ลำดับ	สารเคมี	วิธีวิเคราะห์
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