

ตารางการสอบเทียบเครื่องมือที่ใช้ในการตรวจวัดและวิเคราะห์

Item	Description	Parameter	List of Equipment	Equipment No.	Calibration	Next Calibration
1.	Ambient Air	TSP	ORIFICE TRANSFER STANDARD/Tisch	S/N 0068	17/08/2023	August 2024
			High Volume Air Sampler/TET	S/N TSP-13	02/07/2024	July 2025
			High Volume Air Sampler/TET	S/N TSP-16	01/07/2024	July 2025
			High Volume Air Sampler/TET	S/N TSP-34	01/07/2024	July 2025
			High Volume Air Sampler/TET	S/N TSP-37	02/07/2024	July 2025
			Electronic Balance/XP 205 DR	S/N 1129273885	13/03/2025	March 2026
			ORIFICE TRANSFER STANDARD/Tisch	S/N 0068	17/08/2023	August 2024
			High Volume Air Sampler/TET	S/N PM10-2	01/07/2024	July 2025
			High Volume Air Sampler/TET	S/N PM10-17	03/07/2024	July 2025
			High Volume Air Sampler/TET	S/N PM10-18	02/07/2024	July 2025
		PM-10	High Volume Air Sampler/TET	S/N PM10-30	03/07/2024	July 2025
			Electronic Balance/XP 205 DR	S/N 1129273885	13/03/2025	March 2026
			Certificate of Calibration/MesaLabs	S/N 172508	05/09/2024	September 2025
			PM2.5/Patisol-Plus 2025	S/N 2025A 205619807	27/03/2025	March 2026
			PM2.5/Thermo Patisol 200 Air Sample	S/N 200520803	27/03/2025	March 2026
			PM2.5/BGI By Mesa Lab PQ200	S/N 72477	28/03/2025	March 2026
			PM2.5/BGI By Mesa Lab PQ200	S/N 72615	26/05/2025	May 2026
			Electronic Balance/XP 205 DR	S/N 1129273885	13/03/2025	March 2026
			CERTIFICATE OF ANALYSIS/Linds	S/N A00917SK	05/07/2023	July 2026
			NO _x Analyzer/API 200A	S/N 80	19/03/2025	September 2025
		NO ₂	NO _x Analyzer/API 200E	S/N 737	04/04/2025	October 2025
			NO _x Analyzer/Teledyne 200E	S/N 2789	04/04/2025	October 2025
			NO _x Analyzer/API 200A	S/N 1982	02/04/2025	October 2025

ตารางการสอบเทียบเครื่องมือที่ใช้ในการตรวจวัดและวิเคราะห์

Item	Description	Parameter	List of Equipment	Equipment No.	Calibration	Next Calibration
1.	Ambient Air (Cont.)	SO ₂	CERTIFICATE OF ANALYSIS/Linds	S/N D636157	18/09/2023	18/09/2027
			SO ₂ Analyzer/API 100E	S/N 139	04/04/2025	October 2025
			SO ₂ Analyzer/API 100A	S/N 856	04/04/2025	October 2025
			SO ₂ Analyzer/Thermo 43C	S/N 43C73374373	19/03/2025	September 2025
			SO ₂ Analyzer/Teledyne 100E	S/N 1412	03/04/2025	October 2025
		WS & WD	Wind speed and wind direction/Weather Wizard III	S/N WC41019A77	01/07/2024	July 2025
			Wind speed and wind direction/Weather Wizard III	S/N WC71104A46	14/03/2025	March 2026
			Wind speed and wind direction/Weather Wizard III	S/N WC71006A11	08/01/2025	January 2026
			Wind speed and wind direction/Vantage VUE	S/N Display MT220822047	19/11/2024	November 2025
		Leq 24 hr	Sound Level Calibrator/ST-120	S/N ST120C0263E	12/10/2024	October 2025
			Sound Level Meter/ACO 6226	S/N 130127	01/05/2025	June 2025
			Sound Level Meter/ACO 6226	S/N 150142	01/05/2025	June 2025
			Sound Level Meter/ACO 6226	S/N 160211	01/05/2025	June 2025
			Sound Level Meter/ACO 6226	S/N 110099	01/05/2025	June 2025
			Sound Level Meter/ACO 6236	S/N 152075	01/06/2025	July 2025
			Sound Level Meter/ACO 6236	S/N 152076	01/06/2025	July 2025

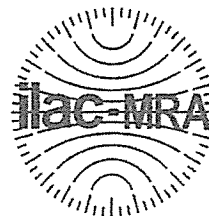


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Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Flow measurement laboratory
Calibration services department.



NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : COF-008-66

Page 1 of 2 Pages

MEASUREMENT ITEM : Top Load Orifice
MANUFACTURER : TISCH
MODEL/TYPE : TE-5025A
SERIAL NUMBER : 0068
ID NUMBER : -
CONDITION AS-RECEIVED : Used item
CUSTOMER : Thai Environmental Technic Limited.
1/6 Soi Ramkhamhaeng 145, Khwaeng/Khet Saphan Sung,
Bangkok 10240

RECEIVED DATE : 08 Aug 2023
MEASUREMENT DATE : 17 Aug 2023
ISSUE DATE : 17 Aug 2023

ENVIRONMENTAL CONDITIONS:

Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

CALIBRATION CONDITION:

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are 23.8 °C and 54.3 %RH.

Calibration procedure:

The Orifice gas flow device was calibrated against Standard Rotary Displacement Meter (Roots Meter) Model G65/IMC/W2-dp. The WI-CL-004 was used as a calibration guideline.

Traceability.

This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the VSL (National Metrology Institute of Netherlands) via Certificate number: G2211901

Uncertainty of Measurement:

The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor $k=2$, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

NOTED: The certificate is valid only to the item calibrated on date and place of calibration.

TABULATION OF RESULTS:

The table on next page give the measured values.

MEASUREMENT RESULTS:

The Orifice gas flow device was calibrated by direct comparison method with the Standard Rotary Displacement Meter (Roots Meter). The Humid air was used as a medium in the system. The standard conditions are 25°C (298.15 K) and 760 mmHg for standard temperature and standard pressure respectively.

Table 1: The results of Q Standard calibration data

Plate	Flow rate m^3/min	Pressure [Pa] mmHg	Temperature [Ta] °C	Temperature [Tm] °C	Δp_{meter} mmHg	$\Delta p_{Orifice}$ inH ₂ O	γ	Standard Flow [Q_s] m^3/min
1	0.700	754.191	23.89	23.40	50.276	1.674	1.291	0.651
2	1.005	754.148	23.80	23.70	54.969	3.395	1.839	0.929
3	1.118	754.084	23.88	23.81	37.664	4.407	2.095	1.058
4	1.175	754.076	23.87	23.79	27.625	5.018	2.236	1.127
5	1.420	754.047	23.89	23.81	27.348	7.362	2.708	1.363

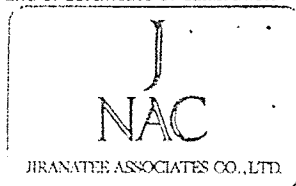
Slope (m): 1.99045
 Intercept (b): -0.00789
 Correlation coefficient (r): 0.99979
 Uncertainty ($k=2$): 0.015 m^3/min

Table 2: The results of Q actual calibration data

Plate	Flow rate m^3/min	Pressure [Pa] mmHg	Temperature [Ta] °C	Temperature [Tm] °C	Δp_{meter} mmHg	$\Delta p_{Orifice}$ inH ₂ O	γ	Standard Flow [Q_s] m^3/min
1	0.700	754.191	23.89	23.40	50.276	1.674	0.812	0.654
2	1.005	754.148	23.80	23.70	54.969	3.395	1.156	0.932
3	1.118	754.084	23.88	23.81	37.664	4.407	1.318	1.062
4	1.175	754.076	23.87	23.79	27.625	5.018	1.406	1.132
5	1.420	754.047	23.89	23.81	27.348	7.362	1.703	1.368

Slope (m): 1.24671
 Intercept (b): -0.00497
 Correlation coefficient (r): 0.99979
 Uncertainty ($k=2$): 0.015 m^3/min

End of Certificate of Calibration





Thai Environmental Technic Limited

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High Volume TSP&PM-10 Calibration Report

Location: Thai Environmental Technic

Site ID: Bangkok

Date: 2-Jul-24

ITEM: TSP

Serial No: (No. 13)

Calibrate By: Pipat

Site Conditions

Barometric Pressure (mm Hg) : 760.00

Temperature (°C) : 25.0

Average Press. (mm Hg) : 754.4

Average Temp (°C) : 31.2

Corrected Pressure (mm Hg) : 760.0

Temperature (deg K) : 298.0

Corrected Average (mm Hg) : -

Average Temp: (Deg K) : -

Calibration Orifice

Make: Tisch

Model: TE-5025A

Serial#: 0068

Qstd Slope : 1.99045

Qstd Intercept : -0.00789

Calibration Due Date : 16-Aug-24

Calibration Information

Plate or Test #	ORIFICE (in H ₂ O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)	Linear Regression Slope : 28.6103 Intercept : 6.6833 Corr. Coeff : 0.9889 # of Observations: 5
1	12.80	1.801	60.0	57.00	
2	10.00	1.593	54.0	52.00	
3	7.40	1.371	50.0	48.00	
4	5.00	1.127	40.0	40.00	
5	3.00	0.874	30.0	30.00	

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(P_a/P_{std})(T_{std}/T_a))-b]$$

$$IC = I[\text{Sqrt}(P_a/P_{std})(T_{std}/T_a)]$$

m = sampler slope

b = sampler intercept

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/T_a)(P_a/760)]-b)$$

NOTE: Ensure calibration orifice has been certified within 12 months of use



High Volume TSP&PM-10 Calibration Report

Location: Thai Environmental Technic

Site ID: Bangkok

Date: 1-Jul-24

ITEM: TSP

Serial No: (No.16)

Calibrate By: Pipat

Site Conditions

Barometric Pressure (mm Hg) : 760.00

Temperature (°C) : 25.0

Average Press. (mm Hg) : 754.4

Average Temp (°C) : 31.2

Corrected Pressure (mm Hg) : 760.0

Temperature (deg K) : 298.0

Corrected Average (mm Hg) : -

Average Temp: (Deg K) : -

Calibration Orifice

Make: Tisch

Model: TE-5025A

Serial#: 0068

Qstd Slope : 1.99045

Qstd Intercept : -0.00789

Calibration Due Date : 16-Aug-24

Calibration Information

Plate or Test #	ORIFICE (in H ₂ O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)	Linear Regression Slope : 30.2912 Intercept : 5.5212 Corr. Coeff : 0.9795 # of Observations: 5
1	12.80	1.801	58.0	58.00	
2	10.00	1.593	54.0	54.00	
3	7.20	1.352	50.0	50.00	
4	5.00	1.127	40.0	40.00	
5	3.00	0.874	30.0	30.00	

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(P_a/P_{std}))(T_{std}/T_a)] - b]$$

$$IC = I[\text{Sqrt}(P_a/P_{std}))(T_{std}/T_a)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/T_{av}))(P_{av}/760)] - b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

NOTE: Ensure calibration orifice has been certified within 12 months of use



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High Volume TSP&PM-10 Calibration Report

Location: Thai Environmental Technic

Site ID: Bangkok

Date: 1-Jul-24

ITEM: TSP

Serial No: (No. 34)

Calibrate By: Pipat

Site Conditions

Barometric Pressure (mm Hg) : 760.00

Temperature (°C) : 25.0

Average Press. (mm Hg) : 750.6

Average Temp (°C) : 29.9

Corrected Pressure (mm Hg) : 760.0

Temperature (deg K) : 298.0

Corrected Average (mm Hg) : -

Average Temp: (Deg K) : -

Calibration Orifice

Make: Tisch

Model: TE-5025A

Serial#: 0068

Qstd Slope : 1.99045

Qstd Intercept : -0.00789

Calibration Due Date : 16-Aug-24

Calibration Information

Plate or Test #	ORIFICE (in H ₂ O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)	Linear Regression Slope : 29.7516 Intercept : 5.6088 Corr. Coeff : 0.9890 # of Observations: 5
1	12.40	1.773	60.0	57.00	
2	9.60	1.561	54.0	52.00	
3	7.20	1.352	50.0	48.00	
4	5.00	1.127	40.0	40.00	
5	3.00	0.874	30.0	30.00	

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

NOTE: Ensure calibration orifice has been certified within 12 months of use



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High Volume TSP&PM-10 Calibration Report

Location: Thai Environmental Technic

Site ID: Bangkok

Date: 2-Jul-24

ITEM: TSP

Serial No: (No. 37)

Calibrate By: Pipat

Site Conditions

Barometric Pressure (mm Hg) : 760.00
Temperature (°C) : 25.0
Average Press. (mm Hg) : 754.5
Average Temp (°C) : 30.5

Corrected Pressure (mm Hg) : 760.0
Temperature (deg K) : 298.0
Corrected Average (mm Hg) : -
Average Temp: (Deg K) : -

Calibration Orifice

Make: Tisch

Qstd Slope : 1.99045

Model: TE-5025A

Qstd Intercept : -0.00789

Serial#: 0068

Calibration Due Date : 16-Aug-24

Calibration Information

Plate or Test #	ORIFICE (in H ₂ O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)	Linear Regression Slope : 30.3894 Intercept : 4.9419 Corr. Coeff : 0.9903 # of Observations: 5
1	12.20	1.759	60.0	57.00	
2	9.40	1.544	54.0	52.00	
3	7.20	1.352	50.0	48.00	
4	5.00	1.127	40.0	40.00	
5	3.00	0.874	30.0	30.00	

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = l[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

l = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m(l)[\text{Sqrt}(298/Tav)(Pav/760)]-b$$

m = sampler slope

b = sampler intercept

l = chart response

Tav = daily average temperature

NOTE: Ensure calibration orifice has been certified within 12 months of use



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High Volume TSP&PM-10 Calibration Report

Location : Thai Environmental Technic

Site ID : Bangkok

Date : 1-Jul-24

ITEM : PM10

Serial No : (No. 2)

Calibrate By : Pipat

Site Conditions

Barometric Pressure (mm Hg) : 760.00

Temperature (°C) : 25.0

Average Press. (mm Hg) : 754.4

Average Temp (°C) : 31.2

Corrected Pressure (mm Hg) : 760.0

Temperature (deg K) : 298.0

Corrected Average (mm Hg) : -

Average Temp: (Deg K) : -

Calibration Orifice

Make : Tisch

Model : TE-5025A

Serial# : 0068

Qstd Slope : 1.99045

Qstd Intercept : -0.00789

Calibration Due Date : 16-Aug-24

Calibration Information

Plate or Test #	ORIFICE (in H ₂ O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)	Linear Regression
1	12.00	1.744	60.0	60.00	Slope : 34.7808
2	9.20	1.528	54.0	54.00	Intercept : 0.7107
3	7.20	1.352	50.0	50.00	Corr. Coeff : 0.9926
4	5.00	1.127	40.0	40.00	
5	3.00	0.874	30.0	30.00	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

NOTE: Ensure calibration orifice has been certified within 12 months of use

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



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High Volume TSP&PM-10 Calibration Report

Location : Thai Environmental Technic
ITEM : PM10

Site ID : Bangkok
Serial No : (No. 17)

Date : 3-Jul-24
Calibrate By : Pipat

Site Conditions

Barometric Pressure (mm Hg) : 760.00
Temperature (°C) : 25.0
Average Press. (mm Hg) : 754.4
Average Temp (°C) : 30.4

Corrected Pressure (mm Hg) : 760.0
Temperature (deg K) : 298.0
Corrected Average (mm Hg) : -
Average Temp: (Deg K) : -

Calibration Orifice

Make : Tisch
Model : TE-5025A
Serial# : 0068

Qstd Slope : 1.99045
Qstd Intercept : -0.00789
Calibration Due Date : 16-Aug-24

Calibration Information

Plate or Test #	ORIFICE (in H ₂ O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)	Linear Regression Slope : 34.7808 Intercept : 0.7107 Corr. Coeff : 0.9926 # of Observations: 5
1	12.00	1.744	60.0	60.00	
2	9.20	1.528	54.0	54.00	
3	7.20	1.352	50.0	50.00	
4	5.00	1.127	40.0	40.00	
5	3.00	0.874	30.0	30.00	

Calculations

$Qstd = 1/m[\text{Sqrt}(H_2O(Pa/Pstd)(Tstd/Ta)) - b]$
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response

m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K

Pstd = 760 mm Hg
For subsequent calculation of sampler flow:
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)] - b)$

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

NOTE: Ensure calibration orifice has been certified within 12 months of use



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High Volume TSP&PM-10 Calibration Report

Location : Thai Environmental Technic

Site ID : Bangkok

Date : 2-Jul-24

ITEM : PM10

Serial No : (No. 18)

Calibrate By : Pipat

Site Conditions

Barometric Pressure (mm Hg) : 760.00

Temperature (°C) : 25.0

Average Press. (mm Hg) : 754.4

Average Temp (°C) : 31.2

Corrected Pressure (mm Hg) : 760.0

Temperature (deg K) : 298.0

Corrected Average (mm Hg) : -

Average Temp: (Deg K) : -

Calibration Orifice

Make : Tisch

Qstd Slope : 1.99045

Model : TE-5025A

Qstd Intercept : -0.00789

Serial# : 0068

Calibration Due Date : 16-Aug-24

Calibration Information

Plate or Test #	ORIFICE (in H ₂ O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)	Linear Regression Slope : 34.0325 Intercept : 1.5550 Corr. Coeff : 0.9906 # of Observations: 5
1	12.30	1.766	60.0	60.00	
2	9.20	1.528	54.0	54.00	
3	7.20	1.352	50.0	50.00	
4	5.00	1.127	40.0	40.00	
5	3.00	0.874	30.0	30.00	

Calculations

$$Qstd = 1/m[\sqrt{H_2O(Pa/Pstd)}(Tstd/Ta)] - b$$

$$IC = I[\sqrt{Pa/Pstd}(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\sqrt{298/Tav}](Pav/760)] - b)$$

NOTE: Ensure calibration orifice has been certified within 12 months of use

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature



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High Volume TSP&PM-10 Calibration Report

Location : Thai Environmental Technic

Site ID : Bangkok

Date : 3-Jul-24

ITEM : PM10

Serial No : (No. 30)

Calibrate By : Pipat

Site Conditions

Barometric Pressure (mm Hg) : 760.00

Temperature (°C) : 25.0

Average Press. (mm Hg) : 754.5

Average Temp (°C) : 29.8

Corrected Pressure (mm Hg) : 760.0

Temperature (deg K) : 298.0

Corrected Average (mm Hg) : -

Average Temp: (Deg K) : -

Calibration Orifice

Make : Tisch

Model : TE-5025A

Serial# : 0068

Qstd Slope : 1.99045

Qstd Intercept : -0.00789

Calibration Due Date : 16-Aug-24

Calibration Information

Plate or Test #	ORIFICE (in H ₂ O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)	Linear Regression Slope : 32.4544 Intercept : 4.3582 Corr. Coeff : 0.9868 # of Observations: 5
1	13.00	1.815	62.0	62.00	
2	10.20	1.608	56.0	56.00	
3	7.40	1.371	52.0	52.00	
4	5.20	1.150	42.0	42.00	
5	3.20	0.903	32.0	32.00	

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(Pa/Pstd)(Tstd/Ta))-b]$$
$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

NOTE: Ensure calibration orifice has been certified within 12 months of use

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



2/4/25

Certificate of Calibration

Cert.No.: 25MM27

Page.: 1 of 3

Equipment : Electronic Balance

Manufacturer : Mettler Toledo

Model : XP205DR

Serial No. : 1129273885

ID No. : -

Submitted by : Thai Environmental Technic Limited
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung,
Bangkok 10240

Location : Balance Room

Received order : 12 March 2025

Calibration Date : 13 March 2025

Ambient Temperature : 15 °C to 40 °C

Relative Humidity : 30 % to 90 %

Issue Date : 24 March 2025

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : Electronic Balance
Condition As-Received : Used Item
Reference : 2503-0227OC-15

Cert.No.: 25MM27

Page: 2 of 3

Procedure used :-

Calibration were conducted using in-house calibration procedure CP-OB01 based on UKAS LAB 14 according to direct measurement method against standard weight.

Condition of this result of calibration

1. Reference standard instruments:-

<u>Instruments</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due date</u>
1) Standard Weight Set (E2)	G0602134	MM-0066-24	NIMT	25 Apr 2026
2) Standard Weight Set (E2)	-	MM-0067-24	NIMT	23 Apr 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This result of calibration was made on requested at the point specified by customer.
4. This certificate is not certified for any commercial transaction.
5. This certification is traceable to the International System of Unit.

Remark : NIMT : National Institute of Metrology Thailand

Result of calibration () Without Adjustment (*) After Adjustment by Internal Calibration

Range capacity :	0 g to 81 g	Resolution	0.00001 g
	81 g to 220 g	Resolution	0.0001 g

Before Adjustment :

<u>Applied Weight</u> (g)	<u>Balance Reading</u> (g)	<u>Correction</u> (g)	<u>Measurement Uncertainty</u> (± mg)	<u>Coverage Factor</u> (k)
80	79.99997	+0.00003	0.15	2
200	199.9998	+0.0002	0.30	2

After Adjustment :

1. Determination of the standard deviation of weighing machine

(n = 10)

<u>Applied Weight</u> (g)	<u>Standard Deviation of Reading (g)</u>
80	0.000007
200	0.00005



Equipment : Electronic Balance
 Condition As-Received : Used Item
 Reference : 2503-0227OC-15

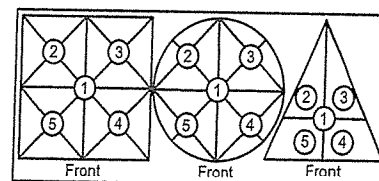
Cert.No.: 25MM27

Page: 3 of 3

Result of calibration

2. Effect of off center loading

A mass of 100 g was placed to various position on the pan.
 The weighing machine reading error obtained is given in the table



Position 1 (g)	Position 2 (g)	Position 3 (g)	Position 4 (g)	Position 5 (g)
0.00000	0.00000	-0.00010	-0.00010	+0.00010

Maximum difference between
 off-center and central loading
 (g)
 0.00010

3. Departure from nominal value

Applied Weight (g)	Balance Reading (g)	Correction (g)	Measurement Uncertainty (\pm mg)	Coverage Factor (k)
Unload	0.00000	0.00000	0.015	2.13
0.01	0.00999	+0.00001	0.015	2.11
0.05	0.04999	+0.00001	0.015	2.11
1	1.00000	0.00000	0.018	2.04
2	2.00000	0.00000	0.019	2.03
5	4.99999	+0.00001	0.026	2
10	10.00000	0.00000	0.033	2
20	20.00000	0.00000	0.045	2
50	49.99999	+0.00001	0.080	2
80	79.99998	+0.00002	0.15	2
200	199.9999	+0.0001	0.30	2

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k , providing a level of confidence of approximately 95 %.



PM-2.5 Calibration Report

Equipment Name	: PM 2.5	Ambient Temperature	: 31 °C
Manufacturer	: Patisol-Plus	Relative Humidity	: 58.0%RH
Model	: 2025	Barometric	: 758.7 mm Hg
Serial Number	: 2025A 205619807	Calibration Date	: 27-Mar-25
ID. Number	: 02	Dued Date of Calibrate	: 27-Mar-26

Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Multi-Tube Automatic Gas Calibrator	Delta Cal DC1	172508	FM-00266 Rev E	25-Sep-25

System Flow Performance Test (Unit : l/min)

STD Setting	UUC Reading	Error	(±) Uncertainty
15.00	15.06	0.00	0.11
16.70	16.69	0.00	0.08
18.40	18.42	0.01	0.09

System Temperature Performance Test (Unit : °C)

STD Setting	UUC Reading	Error	(±) Uncertainty
25	25.08	0.00	0.16
28	28.30	0.01	0.34
32	32.23	0.01	0.18

Barometric Pressure Test (Unit : mmHg)

STD Setting	UUC Reading	Error	(±) Uncertainty
759.3	759.32	0.00	0.28



Thai Environmental Technic Limited
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

PM-2.5 Calibration Report

Equipment Name	: PM 2.5	Ambient Temperature	: 31°C
Manufacturer	: Thermo Patisol	Relative Humidity	: 58.1%RH
Model	: 200 Air Sample	Barometric	: 758.75 mm Hg
Serial Number	: 200520803	Calibration Date	: 27-Mar-25
ID. Number	: 03	Dued Date of Calibrate	: 27-Mar-26

Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Multi-Tube Automatic Gas Calibrator	Delta Cal DC1	172508	FM-00266 Rev E	25-Sep-25

System Flow Performance Test (Unit : l/min)

STD Setting	UUC Reading	Error	(±) Uncertainty
15.00	15.06	0.00	0.09
16.70	16.71	0.00	0.01
18.40	18.41	0.00	0.03

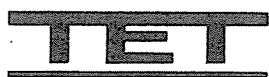
System Temperature Performance Test (Unit : °C)

STD Setting	UUC Reading	Error	(±) Uncertainty
25	25.06	0.00	0.05
28	28.06	0.00	0.05
32	32.02	0.00	0.15

Barometric Pressure Test (Unit : mmHg)

STD Setting	UUC Reading	Error	(±) Uncertainty
758.8	758.79	0.00	0.02





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PM-2.5 Calibration Report

Equipment Name	: PM 2.5	Ambient Temperature	: 32 °C
Manufacturer	: BGI By Mesa Lab	Relative Humidity	: 56.0%RH
Model	: PQ200	Barometric	: 757.6 mm Hg
Serial Number	: 72477	Calibration Date	: 28-Mar-25
ID. Number	: 04	Dued Date of Calibrate	: 28-Mar-26

Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Multi-Tube Automatic Gas Calibrator	Delta Cal DC1	172508	FM-00266 Rev E	25-Sep-25

System Flow Performance Test (Unit : l/min)

STD Setting	UUC Reading	Error	(±) Uncertainty
15.00	15.03	0.00	0.05
16.70	16.71	0.00	0.01
18.40	18.41	0.00	0.02

System Temperature Performance Test (Unit : °C)

STD Setting	UUC Reading	Error	(±) Uncertainty
25	25.00	0.00	0.01
28	28.01	0.00	0.01
32	32.01	0.00	0.01

Barometric Pressure Test (Unit : mmHg)

STD Setting	UUC Reading	Error	(±) Uncertainty
758.9	758.90	0.00	0.03



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

PM-2.5 Calibration Report

Equipment Name	: PM 2.5	Ambient Temperature	: 31 °C
Manufacturer	: BGI By Mesa Lab	Relative Humidity	: 57.0%RH
Model	: PQ200	Barometric	: 758.5 mm Hg
Serial Number	: 72615	Calibration Date	: 26-May-25
ID. Number	: 08	Dued Date of Calibrate	: 26-Mar-26

Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Multi-Tube Automatic Gas Calibrator	Delta Cal DC1	172508	FM-00266 Rev E	25-Sep-25

System Flow Performance Test (Unit : l/min)

STD Setting	UUC Reading	Error	(±) Uncertainty
15.00	15.01	0.00	0.01
16.70	16.70	0.00	0.01
18.40	18.41	0.00	0.00

System Temperature Performance Test (Unit : °C)

STD Setting	UUC Reading	Error	(±) Uncertainty
25	25.05	0.00	0.05
28	28.04	0.00	0.06
32	32.07	0.00	0.08

Barometric Pressure Test (Unit : mmHg)

STD Setting	UUC Reading	Error	(±) Uncertainty
758.2	758.21	0.00	0.02



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG, BANGKOK 10250
TEL. 0-2717-3000-24 FAX. 0-2719-9484



Certificate of Calibration

Certificate No. : 25B184

Page : 1 of 2

Equipment : Electronic Balance

Manufacturer: TANITA

Model : KD-200

Serial No.: 8200608

ID No.: No.10

Condition As-Received: Used Item

Received Date: 20 March 2025

Calibration Date: 25 March 2025

Reference: 2503-0666DSC

Submitted by: Thai Environmental Technic Limited

Ambient Temperature: (23 ± 2) °C

Relative Humidity: (50 ± 15) %

Atmospheric Pressure: 1008.6 hPa

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except with the prior written approval of the head of
Corporate Services 3: Equipment Calibration and Testing Services.

1/6 Soi Ramkhamhaeng 145, Khwaeng/Khet Saphan Sung,
Bangkok 10240

Procedure used: Calibration were conducted using in-house calibration procedure CP-B01 according to direct measurement method against standard weights.

Condition of this result of calibration

1.Reference standards instruments :

<u>Instrument</u>	<u>Model</u>	<u>Serial No.</u>	<u>Certificate No.</u>	<u>Due Date</u>
1) Standard Weight Set (F1)	-	-	24M2368	18 Dec 2025

2.This certificate is not certified for any commercial transaction.

3.The certificate is valid only to the item calibrated on date and place of calibration.

4.This Certification is traceable to the International System of Unit maintained through:-

-Technology Promotion Association (Thailand-Japan), NSC-ONSC Accredited No. Calibration 0008



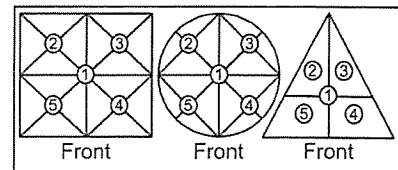
Cert.No. : 25B184

Page: 2 of 2

Range capacity : 0 g to 1000 g Resolution : 1 g
Result of calibration Without adjustment

1. Determination of the standard deviation of weighing machine (n = 10 number of measurement)

Applied Weight (g)	Standard Deviation of reading (g)
500	0
1000	0



2. Eccentric or off-center loading

A mass of 500 g was placed to various position on the pan.
 The weighing machine reading error obtained is given in the table

Position 1	Position 2	Position 3	Position 4	Position 5	Maximum difference between off-center and central loading
(g)	(g)	(g)	(g)	(g)	(g)
0	+1	0	0	+2	2

3. Error of indication from nominal value

Applied Weight (g)	UUC* Reading (g)	Correction Value (g)	Uncertainty of Measurement (\pm g)	Coverage Factor (k)
Unload	0	0	0.82	2.00
100	100	0	0.82	2.00
200	200	0	0.82	2.00
300	300	0	0.82	2.00
400	400	0	0.82	2.00
500	500	0	0.82	2.00
600	600	0	0.82	2.00
700	700	0	0.82	2.00
800	800	0	0.82	2.00
900	900	0	0.82	2.00
1000	1000	0	0.82	2.00

*UUC = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k , providing a level of confidence of approximately 95 %.

-o0o-



Mesa Labs 12100 W. 6th Ave
Lakewood, CO 80228
NIST Traceable Calibration Facility

CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

Calibration Report #: 172508-05092024
DeltaCal Serial Number: 172508
Calibration Technician: Elsy Lasky
Date: 5-Sep-2024
Recommended Recal Date: 5-Sep-2025

Critical Venturi Flow Meter

Max Uncertainty = 0.346%

TE20004	6 - 30.00 LPM	Calibration Due:	25-Sep-2024
TE20006	1.40 - 6.0 LPM	Calibration Due:	25-Sep-2025

Room Temperature: $\pm 0.03^{\circ}\text{C}$ from -5°C - 70°C Room Temperature: 24.70°C

Brand:	Eutechnics	Serial Number:	308304
TE Number:	TE12306	Std Cal Due Date:	30-May-25
Std Cal Date:	30-May-24		

Ambient Temperature (set): 24.6°C

Aux (filter) Temperature (set): 24.7°C

Barometric and Absolute Pressure

Vaisala Model PTB330 (50-1100) Digital Accuracy: 0.03371%

TE Number:	TE20204	Serial Number:	U1220935
Std Cal Date:	25-Apr-24	Std Cal Due Date:	25-Apr-25

DeltaCal:

Barometric pressure (set): 628.80 mmHg

Results of Venturi Calibration

Flow Rate (Q) vs. Pressure Drop (ΔP).

Where: Q=Lpm, ΔP = Cm of H₂O

Venturi

TE20004	Q= 3.89792	ΔP^{\wedge}	0.52069	Overall Uncertainty: 0.35%
TE20006	Q= 3.88061	ΔP^{\wedge}	0.52218	Overall Uncertainty: 0.35%



Mesa Labs 12100 W. 6th Ave Lakewood,
CO 80228

NIST Traceable Calibration Facility

As Shipped Calibration Data for DeltaCal

Unit Type: DC 1
Flow Range: 1.5-19.5 LPM
Serial No. : 172508
Firmware Version: 4.00P

Date	Technician
05Sep2024	Elsy Lasky

Ambient Pressure:	628.7	mmHg
Ambient Temperature:	24.7	°C

Range 1		Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
Venturi Type	TE20004 1A	1	135.18	628.8	6.506	6.536	0.461
Flow range	6 - 30.00 LPM	2	206.97	628.8	10.057	10.017	-0.398
		3	268.79	628.8	13.115	13.019	-0.732
		4	330.62	628.8	16.174	16.071	-0.637
		5	370.00	628.8	18.122	18.011	-0.613
		6	406.46	629.3	19.903	19.852	-0.256
Maximum allowable error at any flow rate is 0.75%.						Average	-0.362
						Result	PASS

Range 2		Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
Venturi Type	TE20006 2A	1	147.25	628.2	2.036	2.044	0.393
Flow range	1.40 - 6.0 LPM	2	216.49	628.2	3.021	3.020	-0.033
		3	269.34	628.2	3.772	3.766	-0.159
		4	319.65	628.2	4.487	4.512	0.557
		5	373.61	628.2	5.254	5.261	0.133
		6	424.81	628.2	5.982	5.967	-0.251
Maximum allowable error at any flow rate is 0.75%.						Average	0.107
						Result	PASS



Mesa Labs 12100 W. 6th Ave Lakewood,
CO 80228

NIST Traceable Calibration Facility

As-Found data for DeltaCal

Unit Type: DC 1
Flow Range: 1.5-19.5 LPM
Serial No. : 172508
Firmware Version: 4.00P

Date	Technician
05Sep2024	Elsy Lasky

Ambient Pressure:	628.7	mmHg
Ambient Temperature:	24.7	°C

As Received Temp. Press. Calibration					As Shipped Temp. Press. Calibration			
	DUT	Standard	Diff	+/- 1 mmHg	DUT	Standard	Diff	+/- 1 mmHg
Pres _{AMB} mmHg	628.8	628.2	0.6	Pass	628.2	628.7	-0.5	Pass
	DUT	Standard	Diff	+/- 1 °C	DUT	Standard	Diff	+/- 1 °C
Temp _{AMB} °C	25.1	24.4	0.7	Pass	24.6	24.7	-0.1	Pass
Temp _{Filter} °C	24.4	24.4	0	Pass	24.7	24.7	0	Pass
	Offset	New Offset						
Pres _{AMB}	0.84	0.24						
Temp _{AMB}	0.82	0.12						
Temp _{Filter}	0.18	0.18						

Range 1		Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
Venturi	TE20004	1	135.18	628.8	6.506	6.536	0.461
Type	1A	2	206.97	628.8	10.057	10.017	-0.398
Flow range	6 - 30.00 LPM	3	268.79	628.8	13.115	13.019	-0.732
		4	330.62	628.8	16.174	16.071	-0.637
		5	370.00	628.8	18.122	18.011	-0.613
		6	406.46	629.3	19.903	19.852	-0.256
		Maximum allowable error at any flow rate is 0.75%.				Average	-0.362
						Result	PASS

Range 2		Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
Venturi	TE20006	1	126.62	628.8	1.743	2.050	17.613
Type	2A	2	208.01	628.8	2.900	3.028	4.414
Flow range	1.40 - 6.0 LPM	3	251.47	628.8	3.518	3.707	5.372
		4	310.97	628.8	4.364	4.523	3.643
		5	369.29	628.8	5.193	5.272	1.521
		6	420.51	628.8	5.921	5.979	0.980
		Maximum allowable error at any flow rate is 0.75%.				Average	5.591
						Result	FAIL

Certificate Of Analysis
Special Gases Mixture

Customer Details

Name:

Thai Environmental Technic Limited

Address:

1/6 Soi Ramkhamhaeng 45, Sapansoong,
Khet Saphan Sung, Bangkok 10240

Customer Tag No.:

Certificate Details

Number: 1734/23

Date of Issue:

5-Jul-2023

Expiry date:

5-Jul-2026

Material Details

Production Order: 90178560

Material Code:

640300-SK-44

Cylinder No.:

A00917SK

Gas content: 5.520 M³

Filling pressure:

145.0 bar

Valve:

CGA 660 SS

Cylinder Owner: LINDE

Cylinder Material:

Spectra seal

Cylinder Size:

40 L

Laboratory Report

Analytical Result

Component	Normal Concentration	Analysis Result ¹	Uncertainty ²	Method of Analysis ³	Assay Date
Nitric Oxide	40.0 ppm	40.5 ppm	± 1% relative	(6) I-PB-352	28-Jun & 5-Jul-2023
Other NOx impurity in Nitrogen		Less than 2.0 ppm			

Reference Standard used in Assay

Reference Standard

Nitric Oxide

in Nitrogen

Cylinder number

258013SG

Concentration

25.32 ± 0.25 ppm

Expiry date:

13-Dec-2024

Analytical Instruments used in Assay

Instrument/Make/Model
FTIR Spectrometers Nicolet iS50Analytical Principle
FTIR-NOLast Multipoint Calibration
28-Jun-2023

Recommend usage condition

Minimum utilization: 5% of actual content or before expire date whichever comes first.

Storage condition: Keep in well ventilation and secure area.

Comments

When reordering, please quote the material number

Note:

1. All results expressed in this report are on mole/mole basis, unless otherwise specified in accordance with the EPA Traceability Protocol EPA-600/R-12/531 for the Assay and Certification of Gaseous Calibration Standards using procedure G1.
2. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The measurement of this material is traceable to the SI through the reference gas standard, which is traceable to Swiss National Standard of Mass or other recognised national metrology institutes.
3. (1) Gas Chromatography, (2) Paramagnetic Oxygen Analyzer, (3) Electrochemical Oxygen Analyzer, (4) Gas Chromatography with Mass Spectrometry, (5) Total Hydrocarbon Analyzer, (6) Other - Specified



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

NOx Analyzer Calibration Report

Calibrate Date : 19-Mar-25
Analyzer Type : NOx
Brand : API
Model : 200 A
Serial Number : 80 (No. 7)
Range : 500 ppb

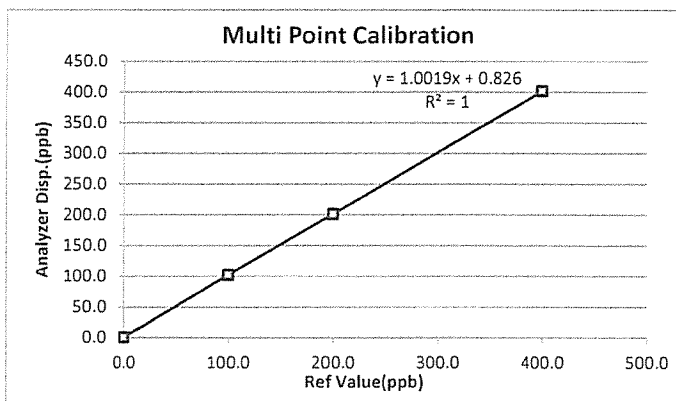
Temperature (°C) : 25 °C
Barometer (mmHg) : 759.7
Humidity (50±15 %) : 52.0%RH
Dilutor : API M700 S/N 625
Zero Air : API M701 S/N 1926
Standard gas : A00917 SK

Calibration of Span

Supply Gas	Ref Value(ppb)	Before of Span.(ppb)			After of Span.(ppb)			% diff of Span
		NOx	NO	NO ₂	NOx	NO	NO ₂	
Zero	0.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0
Span	400.0	385.0	382.7	-1.0	400.0	400.0	0.0	0.0

Multi Point Calibration

Ref Value(ppb)	Analyzer Disp.(ppb)			Output Difference		
	NOx	NO	NO ₂	Diff(ppb)	% Diff	Abs (%) Diff
0.0	0.3	0.2	0.1	0.21	0.001	0.053
100.0	102.1	101.9	0.2	1.90	0.019	1.90
200.0	201.4	201.1	0.3	1.10	0.005	0.55
400.0	402.8	401.4	1.4	1.40	0.003	0.35
Average Diff (%)						0.71

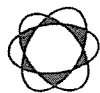


แก้ไขครั้งที่ : 00

วันที่อนุมัติ 02/09/15

เลขที่แบบฟอร์ม : QF-QP16-06

□



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

NOx Analyzer Calibration Report

Calibrate Date : 4-Apr-25
Analyzer Type : NOx
Brand : API
Model : 200 E
Serial Number : 737 (No. 27)
Range : 500 ppb

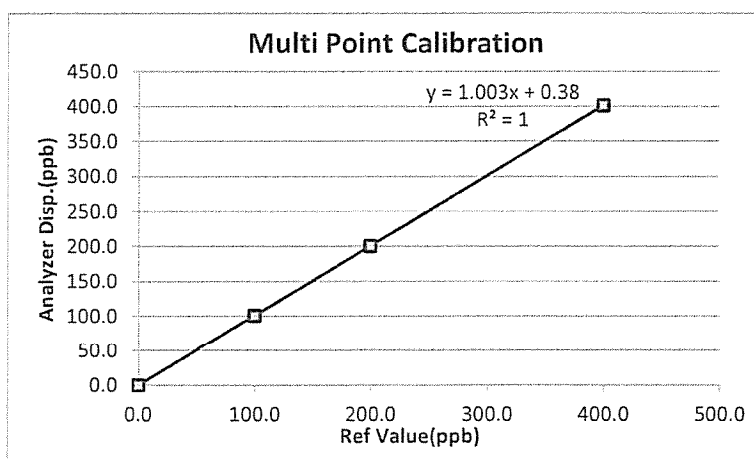
Temperature (°C) : 25°C
Barometer (mmHg) : 759.6
Humidity (50±15 %) : 61.0%RH
Dilutor : API M700 S/N 625
Zero Air : API M701 S/N 1926
Standard gas : A00917 SK

Calibration of Span

Supply Gas	Ref Value(ppb)	Before of Span.(ppb)			After of Span.(ppb)			% diff of Span
		NOx	NO	NO ₂	NOx	NO	NO ₂	
Zero	0.0	0.8	0.6	0.2	0.0	0.0	0.0	0.0
Span	400.0	381.0	379.0	2.0	400.0	400.0	0.0	0.0

Multi Point Calibration

Ref Value(ppb)	Analyzer Disp.(ppb)			Output Difference		
	NOx	NO	NO ₂	Diff(ppb)	% Diff	Abs (%) Diff
0.0	0.4	0.1	0.3	0.10	0.000	0.03
100.0	101.5	101.1	0.4	1.10	0.011	1.10
200.0	201.7	200.9	0.8	0.90	0.005	0.45
400.0	402.0	401.5	0.5	1.50	0.004	0.38
Average Diff (%)						0.64





Thai Environmental Technic Limited
บริษัท เทคนิสิ่งแวดล้อมไทย จำกัด

NOx Analyzer Calibration Report

Calibrate Date : 4-Apr-25
Analyzer Type : NOx
Brand : Teledyne
Model : 200 E
Serial Number : 2789 (No.36)
Range : 500 ppb

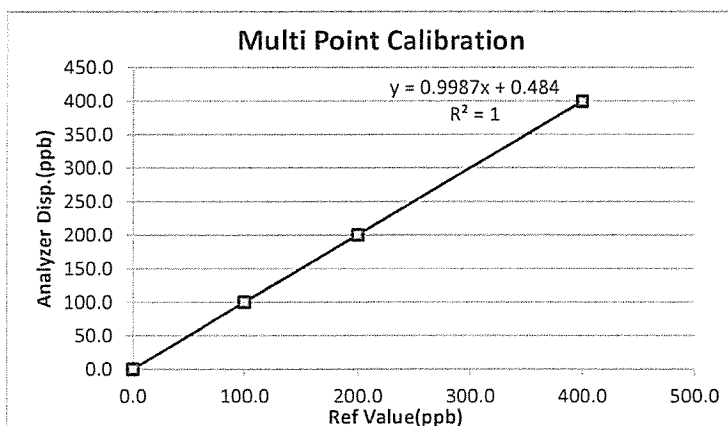
Temperature (°C) : 25°C
Barometer (mmHg) : 759.6
Humidity (50±15 %) : 61.0%RH
Dilutor : API M700 S/N 625
Zero Air : API M701 S/N 1926
Standard gas : A00917 SK

Calibration of Span

Supply Gas	Ref Value(ppb)	Before of Span.(ppb)			After of Span.(ppb)			% diff of Span
		NOx	NO	NO ₂	NOx	NO	NO ₂	
Zero	0.0	1.9	1.6	0.3	0.0	0.0	0.0	0.0
Span	400.0	413.0	408.0	5.0	400.0	400.0	0.0	0.0

Multi Point Calibration

Ref Value(ppb)	Analyzer Disp.(ppb)			Output Difference		
	NOx	NO	NO ₂	Diff(ppb)	% Diff	Abs (%) Diff
0.0	0.4	0.3	0.1	0.34	0.001	0.09
100.0	100.8	100.3	0.5	0.30	0.003	0.30
200.0	200.9	200.6	0.3	0.60	0.003	0.30
400.0	400.4	399.8	0.6	-0.20	0.000	0.05
Average Diff (%)						0.18



แก้ไขครั้งที่ : 00

วันที่อนุมัติ 02/09/15

เลขที่แบบฟอร์ม : QF-QP16-06



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

NOx Analyzer Calibration Report

Calibrate Date : 2-Apr-25
Analyzer Type : NOx
Brand : API
Model : 200A
Serial Number : 1982 (No.16)
Range : 500 ppb

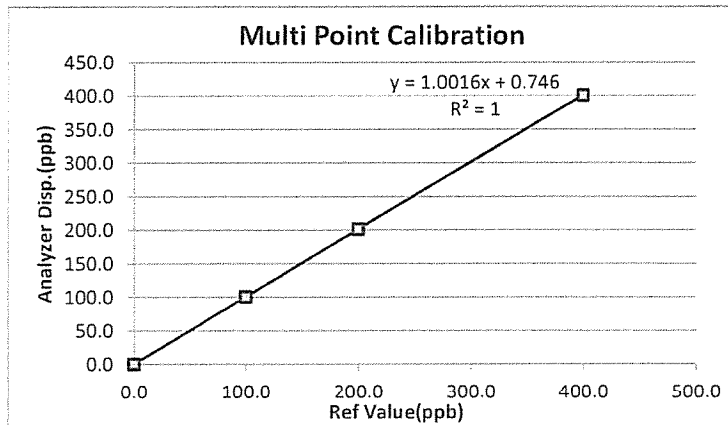
Temperature (°C) : 25°C
Barometer (mmHg) : 758
Humidity (50±15 %) : 50.0%RH
Dilutor : API M700 S/N 625
Zero Air : API M701 S/N 1926
Standard gas : A00917 SK

Calibration of Span

Supply Gas	Ref Value(ppb)	Before of Span.(ppb)			After of Span.(ppb)			% diff of Span
		NOx	NO	NO ₂	NOx	NO	NO ₂	
Zero	0.0	1.9	1.2	0.7	0.0	0.0	0.0	0.0
Span	400.0	406.0	403.0	3.0	400.0	400.0	0.0	0.0

Multi Point Calibration

Ref Value(ppb)	Analyzer Disp.(ppb)			Output Difference		
	NOx	NO	NO ₂	Diff(ppb)	% Diff	Abs (%) Diff
0.0	0.7	0.5	0.2	0.50	0.001	0.13
100.0	101.9	100.8	1.1	0.80	0.008	0.80
200.0	202.1	201.7	0.4	1.73	0.009	0.86
400.0	401.5	401.1	0.4	1.10	0.003	0.28
Average Diff (%)						0.52



แก้ไขครั้งที่ : 00

วันที่อนุมัติ 02/09/15

เลขที่แบบฟอร์ม : QF-QP16-06

Certificate Of Analysis
Special Gases Mixture

Customer Details

Name:	Address:	Customer Tag No.:
Thai Environmental Technic Limited.	1/6 Soi Ramkhamhaeng 45, Sapansoong, Khet Saphan Sung, Bangkok 10240	-

Certificate Details

Number:	2500/23	Date of Issue:	18-Sep-2023	Expiry date:	18-Sep-2027
Material Details					
Production Order:	90179846	Material Code:	608400-SK-44	Cylinder No.:	D636157
Gas content:	5.520 M ³	Filling pressure:	145 bar	Valve:	CGA 660 SS
Cylinder Owner:	LINDE	Cylinder Material:	Spectra seal	Cylinder Size:	40 L

Laboratory Report

Analytical Result

Component	Nominal Concentration	Analysis Result ¹	Uncertainty ²	Method of Analysis ³	Assay Date
Sulphur Dioxide In Nitrogen	40.0 ppm	41.1 ppm	± 1% relative	(6) I-PB-352	8-Sep & 18-Sep-23

Reference Standard used in Assay

Reference Standard	Cylinder number	Concentration	Expiry date:
Sulphur Dioxide In Nitrogen	BOC150629SG	25.35 ± 0.25 ppm	9-Jun-2024

Analytical Instruments used in Assay

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
FTIR Spectrometers Nicolet iS50	FTIR-SO2	6-Sep-2023

Recommend usage condition

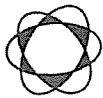
Minimum utilization: 5% of actual content or before expire date whichever comes first.
Storage condition: Keep in well ventilation and secure area.

Comments

When reordering, please quote the material number

Note:

- All results expressed in this report are on mole/mole basis, unless otherwise specified. The Assay of this Standard has been performed in accordance with the EPA Traceability Protocol EPA-600/R-12/531 for the Assay and Certification of Gaseous Calibration Standards using procedure G1
- The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The measurement of this material is traceable to the SI through the reference gas standard which is traceable to Swiss National Standard of Mass or other recognised national metrology institutes.
- (1) Gas Chromatography, (2) Paramagnetic Oxygen Analyzer, (3) Electrochemical Oxygen Analyzer, (4) Electrochemical Moisture Analyzer, (5) Total Hydrocarbon Analyzer, (6) Other - Specified



Thai Environmental Technic Limited
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

Analyzer Calibration Report

Calibrate Date : 4-Apr-25
Analyzer Type : SO₂
Brand : API
Model : 100 E
Serial Number : 139 (No. 1)
Range : 500 ppb

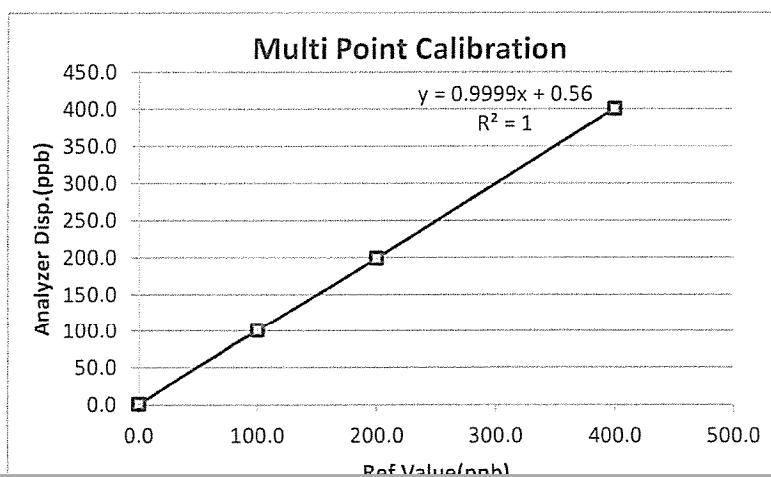
Temperature (°C) : 25 °C
Barometer (mmHg) : 758.6
Humidity (50±15 %) : 59.0 %RH
Dilutor : API M700 S/N 625
Zero Air : API M701 S/N 1926
Standard gas : D636157

Calibration of Span

Supply Gas	Ref Value(ppb)	Before of Span.(ppb)	After of Span.(ppb)	Abs% diff of Span
Zero	0.0	0.8	0.0	0.0
Span	400.0	407.0	400.0	0.0

Multi Point Calibration

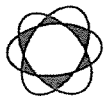
Ref Value(ppb)	Analyzer Disp.(ppb)	Output Difference		
		Diff (ppb)	Percent Diff	Abs Percent Diff
0.0	0.8	0.8	0.00	0.20
100.0	101.2	1.2	0.01	1.20
200.0	199.1	-0.9	0.00	0.45
400.0	401.1	1.1	0.00	0.28
Average Diff (%)				0.53



แก้ไขครั้งที่ : 00

วันที่อนุมัติ 02/09/15

เลขที่แบบฟอร์ม : QF-QP16-06



Thai Environmental Technic Limited
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

Analyzer Calibration Report

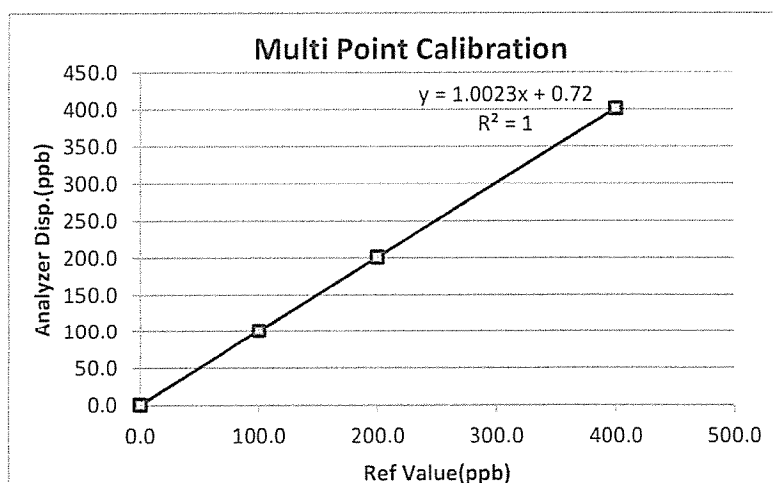
Calibrate Date	4-Apr-25	Temperature (°C)	: 25°C
Analyzer Type	SO ₂	Barometer (mmHg)	: 758.6
Brand	API	Humidity (50±15 %)	: 59.0 %RH
Model	100 A	Dilutor	: API M700 S/N 625
Serial Number	856 (No.5)	Zero Air	: API M701 S/N 1926
Range	500 ppb	Standard gas	: D636157

Calibration of Span

Supply Gas	Ref Value(ppb)	Before of Span.(ppb)	After of Span.(ppb)	Abs% diff of Span
Zero	0.0	1.2	0.0	0.0
Span	400.0	394.0	400.0	0.0

Multi Point Calibration

Ref Value(ppb)	Analyzer Disp.(ppb)	Output Difference		
		Diff (ppb)	Percent Diff	Abs Percent Diff
0.0	0.5	0.5	0.00	0.13
100.0	101.3	1.3	0.01	1.30
200.0	201.1	1.1	0.01	0.55
400.0	401.6	1.6	0.00	0.40
Average Diff (%)				0.59



แก้ไขครั้งที่ : 00

วันที่อนุมัติ 02/09/15

เลขที่แบบฟอร์ม : QF-QP16-06



Thai Environmental Technic Limited
บริษัท เทคนิกลิ่งแวดล้อมไทย จำกัด

Analyzer Calibration Report

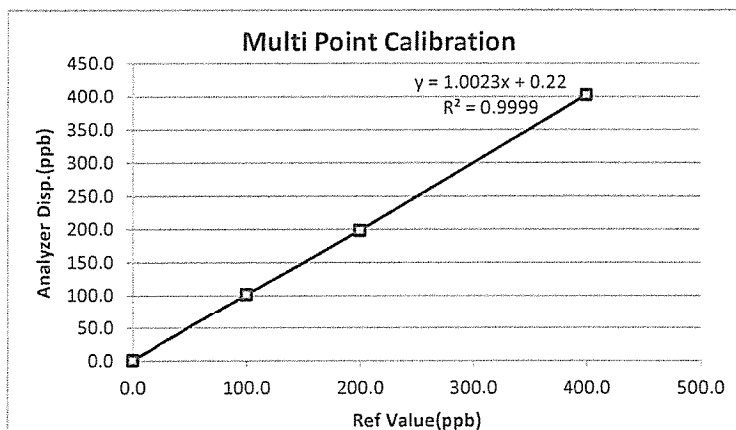
Calibrate Date	: 19-Mar-25	Temperature (°C)	: 25 °C
Analyzer Type	: SO ₂	Barometer (mmHg)	: 759.6
Brand	: Thermo	Humidity (50±15 %)	: 52.0 %RH
Model	: 43C	Dilutor	: API M700 S/N 625
Serial Number	: 43C73374373 (No. 10)	Zero Air	: API M701 S/N 1926
Range	: 500 ppb	Standard gas	: D636157

Calibration of Span

Supply Gas	Ref Value(ppb)	Before of Span.(ppb)	After of Span.(ppb)	Abs% diff of Span
Zero	0.0	2.5	0.0	0.0
Span	400.0	407.0	400.0	0.0

Multi Point Calibration

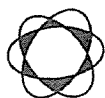
Ref Value(ppb)	Analyzer Disp.(ppb)	Output Difference		
		Diff (ppb)	Percent Diff	Abs Percent Diff
0.0	0.7	0.7	0.00	0.18
100.0	101.4	1.4	0.01	1.40
200.0	198.3	-1.7	-0.01	0.85
400.0	402.1	2.1	0.01	0.53
Average Diff (%)				0.74



แก้ไขครั้งที่ : 00

วันที่อนุมัติ 02/09/15

เลขที่แบบฟอร์ม : QF-QP16-06



Thai Environmental Technic Limited
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

Analyzer Calibration Report

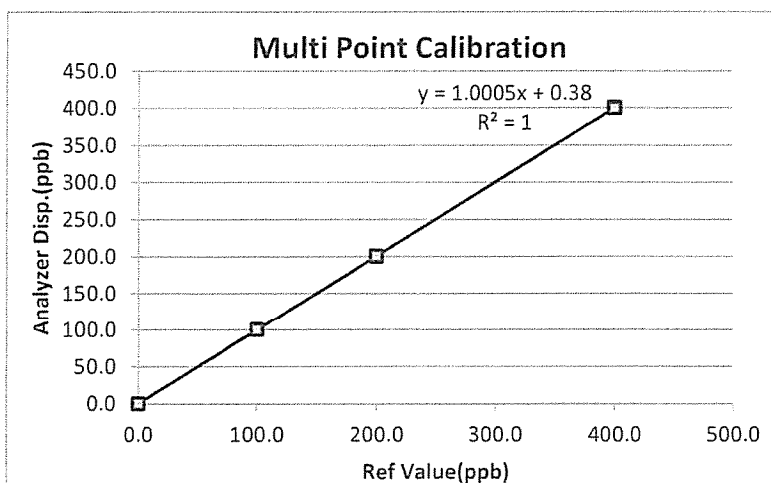
Calibrate Date	3-Apr-25	Temperature (°C)	: 25 °C
Analyzer Type	SO ₂	Barometer (mmHg)	: 759.0
Brand	Teledyne	Humidity (50±15 %)	: 58.0 %RH
Model	100 E	Dilutor	: API M700 S/N 625
Serial Number	1412 (No. 22)	Zero Air	: API M701 S/N 1926
Range	500 ppb	Standard gas	: D636157

Calibration of Span

Supply Gas	Ref Value(ppb)	Before of Span.(ppb)	After of Span.(ppb)	Abs% diff of Span
Zero	0.0	1.2	0.0	0.0
Span	400.0	397.0	400.0	0.0

Multi Point Calibration

Ref Value(ppb)	Analyzer Disp.(ppb)	Output Difference		
		Diff (ppb)	Percent Diff	Abs Percent Diff
0.0	0.3	0.3	0.00	0.08
100.0	100.4	0.4	0.00	0.40
200.0	200.7	0.7	0.00	0.35
400.0	400.5	0.5	0.00	0.13
Average Diff (%)				0.24



แก้ไขครั้งที่ : 00

วันที่อนุมัติ 02/09/15

เลขที่แบบฟอร์ม : QF-QP16-06



THAI METEOROLOGICAL DEPARTMENT

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 1 July, 2024

Certification No. 234/24

Page : 1 of 2

Object : Wind speed and wind direction

Manufacturer : Davis Instruments Inc.

Type : Weather Wizard III

Serial No. : WC41019A77 ID No. : No.7

Customer : Thai Environmental Technic Limited.
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung, Bangkok 10240.

Calibration Condition : Temperature 25.1 °C Barometric Pressure 1010.2 hPa

NATIONAL STANDARD WIND TUNNEL :

: Micromanometer Theodor Friedrichs FC014 Serial No. 9310119

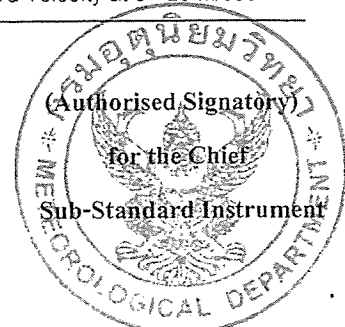
: HOOK GAGE NO 1425 Pitot Tube Theodor Friedrichs Type 0800.0000 serial 9023

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)

Standard Velocity at 0 - 20 m/sec





THAI METEOROLOGICAL DEPARTMENT

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

The Result of Calibration

Certification No. 234/24

1 July, 2024

Page : 2 of 2

Standard Ultrasonic Anemometer m/sec	HOOK GAGE NO. 1425			TESTED ANEMOMETER	
	Pressure inches H ₂ O	Vacumm inches H ₂ O	Velocity m/sec	Velocity m/sec	Correction m/sec
1.00	-	-	-	0.4	0.60
3.02	-	-	-	2.7	0.32
5.00	-	-	-	4.5	0.50
7.00	-	-	-	6.7	0.30
9.02	-	-	-	8.5	0.52
11.01	-	-	-	10.7	0.31
13.01	-	-	-	12.5	0.51
15.01	-	-	-	14.7	0.31
17.02	-	-	-	16.5	0.52
20.02	-	-	-	19.7	0.32

Wind Aloft Plotting Board.	
US.DEPARTMENT OF COMMERCE WEATHER BUREAU	
WIND DIRETION	TESTED WIND DIRECTION
0	0
90	90
180	180
270	270





THAI METEOROLOGICAL DEPARTMENT

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 14 March, 2025

Certification No. 154/25

Page : 1 of 2

Object : Wind speed and Wind direction

Manufacturer : Davis Instruments Inc.

Type : Weather Wizard III

Serial No. : WC71104A46 ID No. : No.25

Customer : Thai Environmental Technic Limited.
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung, Bangkok 10240.

Calibration Condition : Temperature 25.1 °C Barometric Pressure 1011.9 hPa

NATIONAL STANDARD WIND TUNNEL :

: Micromanometer Theodor Friedrichs FC014 Serial No. 9310119

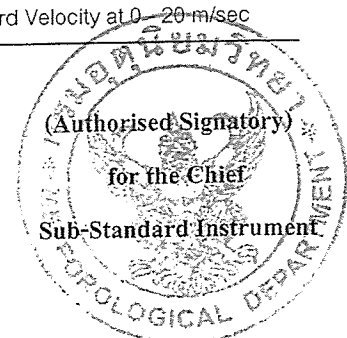
: HOOK GAGE NO 1425 Pitot Tube Theodor Friedrichs Type 0800.0000 serial 9023

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





THAI METEOROLOGICAL DEPARTMENT

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

The Result of Calibration

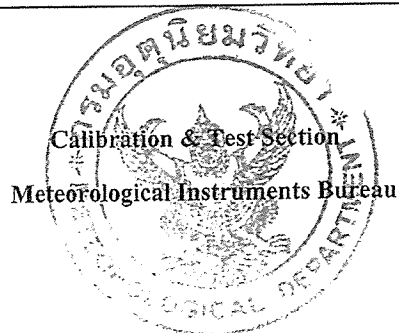
Certification No. 154/25

14 March, 2025

Page : 2 of 2

Standard	HOOK GAGE NO. 1425			TESTED ANEMOMETER	
Ultrasonic Anemometer	Pressure	Vacumm	Velocity	Velocity	Correction
m/sec	inches H2O	inches H2O	m/sec	m/sec	m/sec
1.00	-	-	-	0.9	0.10
3.02	-	-	-	2.7	0.32
5.00	-	-	-	4.9	0.10
7.00	-	-	-	6.7	0.30
9.02	-	-	-	8.9	0.12
11.01	-	-	-	10.7	0.31
13.01	-	-	-	12.9	0.11
15.01	-	-	-	14.7	0.31
17.02	-	-	-	17.0	0.02
20.02	-	-	-	19.7	0.32

Vane Angel Bench Stand Model 18112	
Young Meteorological Instruments	
WIND DIRETION	TESTED WIND DIRECTION
0	0
90	90
180	180
270	270





THAI METEOROLOGICAL DEPARTMENT

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 : 8 January, 2025

Certification No. 005/25

Page : 1 of 2

Object : Wind speed and wind direction

Manufacturer : Davis Instruments Inc.

Type : Weather Wizard III

Serial No. : WC71006A11 ID No. : No.26

Customer : Thai Environmental Technic Limited.
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung, Bangkok 10240.

Calibration Condition : Temperature 25.1 °C Barometric Pressure 1013.0 hPa

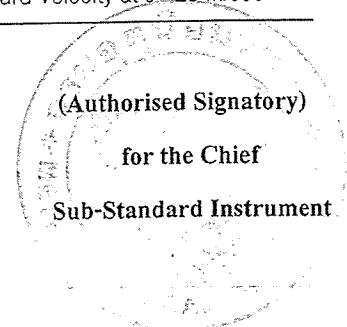
NATIONAL STANDARD WIND TUNNEL :

: Micromanometer Theodor Friedrichs FC014 Serial No. 9310119
: HOOK GAGE NO 1425 Pitot 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





THAI METEOROLOGICAL DEPARTMENT

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

The Result of Calibration

Certification No. 005/25

8 January, 2025

Page : 2 of 2

Standard Ultrasonic Anemometer m/sec	HOOK GAGE NO. 1425			TESTED ANEMOMETER	
	Pressure inches H2O	Vacumm inches H2O	Velocity m/sec	Velocity m/sec	Correction m/sec
1.00	-	-	-	0.4	0.60
3.02	-	-	-	2.7	0.32
5.00	-	-	-	4.5	0.50
7.00	-	-	-	6.7	0.30
9.02	-	-	-	8.5	0.52
11.01	-	-	-	10.7	0.31
13.01	-	-	-	12.5	0.51
15.01	-	-	-	14.7	0.31
17.02	-	-	-	16.5	0.52
20.02	-	-	-	19.7	0.32

Wind Aloft Plotting Board.	
US.DEPARTMENT OF COMMERCE WEATHER BUREAU	
WIND DIRETION	TESTED WIND DIRECTION
0	0
90	90
180	180
270	270

Calibration & Test Section
Meteorological Instruments Bureau



THAI METEOROLOGICAL DEPARTMENT

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 19 November, 2024

Certification No. 418/24

Page : 1 of 2

Object : Wind speed and wind direction

Manufacturer : Davis Instruments Inc.

Type : Vantage VUE Model No. : #6251EU

ID No. : No.35

Serial No. : Display MT220822047 Transmitter MT231004046

Customer : Thai Environmental Technic Limited.
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung, Bangkok 10240.

Calibration Condition : Temperature 25.1 °C Barometric Pressure 1010.0 hPa

NATIONAL STANDARD WIND TUNNEL :

: Micromanometer Theodor Friedrichs FC014 Serial No. 9310119

: HOOK GAGE NO 1425 Pitot Tube Theodor Friedrichs Type 0800.0000 serial 9023

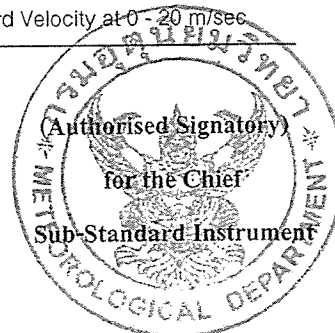
N.I.S.T. Test Reference Number 731/241460 : Standard Velocity at 20 - 30 m/sec

: 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





THAI METEOROLOGICAL DEPARTMENT

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

The Result of Calibration

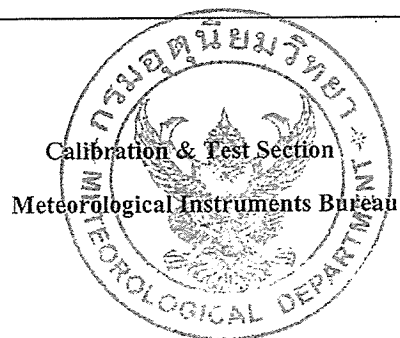
Certification No. 418/24

19 November, 2024

Page : 2 of 2

Standard Ultrasonic Anemometer m/sec	HOOK GAGE NO. 1425			TESTED ANEMOMETER	
	Pressure inches H2O	Vacuum inches H2O	Velocity m/sec	Velocity m/sec	Correction m/sec
1.00	-	-	-	0.9	0.10
3.02	-	-	-	2.7	0.32
5.00	-	-	-	4.9	0.10
7.00	-	-	-	6.8	0.20
9.02	-	-	-	9.0	0.02
11.01	-	-	-	10.8	0.21
13.01	-	-	-	13.0	0.01
15.01	-	-	-	15.0	0.01
17.02	-	-	-	17.0	0.02
20.02	-	-	-	20.0	0.02

Wind Aloft Plotting Board.	
US.DEPARTMENT OF COMMERCE WEATHER BUREAU	
WIND DIRECTION	TESTED WIND DIRECTION
0	0
90	90
180	180
270	270





Certificate of Calibration

Certificate Number : SPR24100208-5

Page : 1 of 3

Customer : Thai Environmental Technic Limited.

1/6 Soi Ramkhamhaeng 145, Khwaeng Saphan Sung, Khet Saphan
Sung, Bangkok 10240, Thailand.

Equipment Name : Sound Calibrator

Manufacturer : Scarlet Tech

Model : ST-120

Serial Number : ST120C0263E

ID. Number : No.8

Environmental Conditions

Ambient Temperature : $23\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$

Received Date : 11 Oct 2024

Relative Humidity : $50\% \pm 15\%$

Calibration Date : 12 Oct 2024

Location of Calibration : In-Lab

Recommend Due Date : 12 Oct 2025

Calibration Procedure : In-House Method

Date of Issue : 13 Oct 2024

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, without written approval of SP Metrology



Calibration Report

Certificate Number : SPR24100208-5

Page : 2 of 3

Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Measuring Receiver	8902A	2950A02471	E3U2401129	05 Sep 2025
AUDIO Analyzer	8903B	3011A09975	EL02442/24	23 Jan 2025

Traceability

This certification is traceable to the International System of Unit maintained at :

NA - NA Caltechnologies Co., Ltd.

PCAL - Professional Calibration & Services Co.,Ltd.



Result of Calibration

Certificate No. : SPR24100208-5

Page : 3 of 3

Function : Sound Level Calibrator

UUC Setting (\pm dB)	Standard Reading (dB)	Error (dB)	Uncertainty (\pm dB)
94	93.9	0.1	1.5
114	113.9	0.1	1.5

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 $k = 2.00$, providing a level of confidence approximately 95%.

- End of Certificate -



Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-May-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25.00 °C
Relative Humidity(50±15 %) : 50.0 % RH
Dued Date of Calibrate : 1-June-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
21	ACO	6226	070049	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
23	RION	NL-21	00487676	94.0	93.8	93.8	93.8	93.8	94.0	0.2	PASS
				114.0	113.8	113.8	113.8	113.8			
25	ACO	6226	100098	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
26	ACO	6226	100099	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
28	ACO	6226	100101	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
29	ACO	6226	100102	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
30	ACO	6226	100106	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
31	ACO	6226	110098	94.0	94.3	94.3	94.3	94.3	94.0	0.3	PASS
				114.0	114.2	114.2	114.2	114.2			
32	ACO	6226	110105	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.8	113.8	113.8	113.8			
34	ACO	6226	110099	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			



Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-May-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25.00 °C
Relative Humidity(50±15 %) : 50.0 % RH
Dued Date of Calibrate : 1-June-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
35	ACO	6226	110097	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.1	114.1	114.1	114.1			
36	ACO	6226	110102	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
37	ACO	6226	110101	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.4	114.4	114.4	114.4			
38	ACO	6226	110106	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
39	ACO	6226	110104	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
40	ACO	6226	110100	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
41	ACO	6226	130127	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
42	ACO	6226	130128	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
44	ACO	6226	130130	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
45	ACO	6226	130131	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			



Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-May-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25.00 °C
Relative Humidity(50±15 %) : 50.0 % RH
Dued Date of Calibrate : 1-June-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
46	ACO	6236	112029	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
48	ACO	6236	152074	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
49	ACO	6236	152075	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
50	ACO	6236	152076	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
51	ACO	6236	152077	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
52	ACO	6226	150142	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
53	ACO	6226	160095	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
54	ACO	6226	160096	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
55	ACO	6226	160097	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
56	ACO	6226	160098	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			



Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-May-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25.00 °C
Relative Humidity(50±15 %) : 50.0 % RH
Dued Date of Calibrate : 1-June-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
57	ACO	6226	160099	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
58	ACO	6226	160143	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
59	ACO	6226	160203	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
60	ACO	6226	160204	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
61	ACO	6226	160205	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
62	ACO	6226	160211	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
63	ACO	6226	160212	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
64	ACO	6226	160213	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
66	ACO	6226	160215	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
67	ACO	6226	160216	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.8	113.8	113.8	113.8			



Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-May-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25.00 °C
Relative Humidity(50±15 %) : 50.0 % RH
Dued Date of Calibrate : 1-June-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
68	ACO	6236	222036	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
69	ACO	6236	222037	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
70	ACO	6236	222038	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
71	ACO	6236	222039	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
72	ACO	6236	222040	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
74	ACO	6236	222245	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
75	ACO	6236	222246	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
76	ACO	6236	222247	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			



Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-May-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25.00 °C
Relative Humidity(50±15 %) : 50.0 % RH
Dued Date of Calibrate : 1-June-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
78	SCARLET	ST-11D	820390	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
79	SCARLET	ST-11D	820391	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
80	SCARLET	ST-11D	820392	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
81	SCARLET	ST-11D	820393	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
82	SCARLET	ST-11D	820394	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
83	SCARLET	ST-11D	820877	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
84	SCARLET	ST-11D	820878	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
85	SCARLET	ST-11D	820879	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
86	SCARLET	ST-11D	821293	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
87	SCARLET	ST-11D	821294	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			



Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-May-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25.00 °C
Relative Humidity(50±15 %) : 50.0 % RH
Dued Date of Calibrate : 1-June-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
88	SCARLET	ST-11D	821295	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
89	SCARLET	ST-11D	821296	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
90	SCARLET	ST-11D	821298	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
91	SCARLET	ST-11D	821299	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			

Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-June-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25 °C
Relative Humidity(50±15 %) : 50 % RH
Dued Date of Calibrate : 1-July-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
46	ACO	6236	112029	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
48	ACO	6236	152074	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
49	ACO	6236	152075	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
50	ACO	6236	152076	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
51	ACO	6236	152077	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.2	114.2	114.2	114.2			
52	ACO	6226	150142	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
53	ACO	6226	160095	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
54	ACO	6226	160096	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
55	ACO	6226	160097	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
56	ACO	6226	160098	94.0	94.3	94.3	94.3	94.3	94.0	0.3	PASS
				114.0	114.2	114.2	114.2	114.2			

Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-June-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25 °C
Relative Humidity(50±15 %) : 50 % RH
Dued Date of Calibrate : 1-July-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
21	ACO	6226	070049	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
23	RION	NL-21	00487676	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
25	ACO	6226	100098	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
26	ACO	6226	100099	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
28	ACO	6226	100101	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
29	ACO	6226	100102	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
30	ACO	6226	100106	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
31	ACO	6226	110098	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.8	113.8	113.8	113.8			
32	ACO	6226	110105	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
34	ACO	6226	110099	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			

Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-June-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25 °C
Relative Humidity(50±15 %) : 50 % RH
Dued Date of Calibrate : 1-July-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
35	ACO	6226	110097	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
36	ACO	6226	110102	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
37	ACO	6226	110101	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
38	ACO	6226	110106	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.8	113.8	113.8	113.8			
39	ACO	6226	110104	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
40	ACO	6226	110100	94.0	93.8	93.8	93.8	93.8	94.0	0.2	PASS
				114.0	113.8	113.8	113.8	113.8			
41	ACO	6226	130127	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
42	ACO	6226	130128	94.0	94.3	94.3	94.3	94.3	94.0	0.3	PASS
				114.0	114.2	114.2	114.2	114.2			
44	ACO	6226	130130	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.2	114.2	114.2	114.2			
45	ACO	6226	130131	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			

Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-June-2025
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Temperature (23±3)°C : 25 °C
Relative Humidity(50±15 %) : 50 % RH
Dued Date of Calibrate : 1-July-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
46	ACO	6236	112029	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
48	ACO	6236	152074	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
49	ACO	6236	152075	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
50	ACO	6236	152076	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
51	ACO	6236	152077	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.2	114.2	114.2	114.2			
52	ACO	6226	150142	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
53	ACO	6226	160095	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
54	ACO	6226	160096	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
55	ACO	6226	160097	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
56	ACO	6226	160098	94.0	94.3	94.3	94.3	94.3	94.0	0.3	PASS
				114.0	114.2	114.2	114.2	114.2			

Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-June-2025
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Temperature (23±3)°C : 25 °C
Relative Humidity(50±15 %) : 50 % RH
Dued Date of Calibrate : 1-July-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
57	ACO	6226	160099	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
58	ACO	6226	160143	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
59	ACO	6226	160203	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.8	113.8	113.8	113.8			
60	ACO	6226	160204	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
61	ACO	6226	160205	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
62	ACO	6226	160211	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
63	ACO	6226	160212	94.0	93.8	93.8	93.8	93.8	94.0	0.2	PASS
				114.0	113.8	113.8	113.8	113.8			
64	ACO	6226	160213	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
66	ACO	6226	160215	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.0	114.0	114.0	114.0			
67	ACO	6226	160216	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			

Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-June-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25 °C
Relative Humidity(50±15 %) : 50 % RH
Dued Date of Calibrate : 1-July-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
68	ACO	6236	222036	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
69	ACO	6236	222037	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
70	ACO	6236	222038	94.0	94.2	94.2	94.2	94.2	94.0	0.2	PASS
				114.0	114.1	114.1	114.1	114.1			
71	ACO	6236	222039	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
72	ACO	6236	222040	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
74	ACO	6236	222245	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
75	ACO	6236	222246	94.0	93.9	93.9	93.9	93.9	94.0	0.1	PASS
				114.0	113.9	113.9	113.9	113.9			
76	ACO	6236	222247	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			

Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
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Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-June-2025
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Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
78	SCARLET	ST-11D	820390	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
79	SCARLET	ST-11D	820391	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
80	SCARLET	ST-11D	820392	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
81	SCARLET	ST-11D	820393	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
82	SCARLET	ST-11D	820394	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
83	SCARLET	ST-11D	820877	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
84	SCARLET	ST-11D	820878	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
85	SCARLET	ST-11D	820879	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
86	SCARLET	ST-11D	821293	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
87	SCARLET	ST-11D	821294	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			

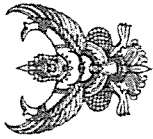
Sound Level Meter Calibration Report

Equipment Type : Sound Level Meter
Calibrator : SCARLET ST-120
Standard : IEC 60942:2017 CLASS1
Accuracy : 94.0 ±0.3 dB and 114.0±0.5 dB
Frequency : at 1,000 Hz ±1%
Calibrator Serial NO. : ST120C0263E

Calibration Date : 1-June-2025
Barometric pressure (mmHg) : 759.0 mmHg
Temperature (23±3)°C : 25 °C
Relative Humidity(50±15 %) : 50 % RH
Dued Date of Calibrate : 1-July-2025

Item	Instrument Calibrated			Reference Acoustic dB	Before Adjust				After Adjust ± dB	Deviation ± dB	Result Calibrate
	Brand	Model	Serial NO.		ครั้งที่ 1	ครั้งที่ 2	ครั้งที่ 3	เฉลี่ย			
88	SCARLET	ST-11D	821295	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
89	SCARLET	ST-11D	821296	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			
90	SCARLET	ST-11D	821298	94.0	94.1	94.1	94.1	94.1	94.0	0.1	PASS
				114.0	114.1	114.1	114.1	114.1			
91	SCARLET	ST-11D	821299	94.0	94.0	94.0	94.0	94.0	94.0	0.0	PASS
				114.0	114.0	114.0	114.0	114.0			

ภาคผนวก ฉ
หนังสือขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์
เอกชนเลขทะเบียน ว-236



ที่ อภ ๐๓๐๑(๑)/ ๙. ๘. ๗. ๖

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐
โทร ๒๕๖ ๒๕๖๖

๒.๒. วัตถุประสงค์

เรื่อง ข้อเสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

เรียน กรรมการผู้จัดการ บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

อ้างถึง คำขอที่เสนอแนะ/ข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือรับตอบข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

วันที่ ๓ มีนาคม ๒๕๖๖

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด จำนวน ๒๕ แห่ง

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

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ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

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ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

ตามที่เสนอแนะข้อปฏิบัติของหน่วยงานที่เกี่ยวข้องกับการบริหารจัดการห่วงโซ่มูลค่า

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- ๑๓) นายจิรวัฒน์ อินทะเสย์
๑๔) นางสาวนิตยา ยืนวัฒนา
๑๕) นางสาวรุ่งกาน์ สารแสง
๑๖) นายกิตติศักดิ์ เมืองงาม
๑๗) นายเทพพงศ์ เขียววัฒนา
๑๘) นายเฉลิมวุฒิ พูลสงวน
๑๙) นางสาวนุศศิริ อรชร
๒๐) นางสาววรรณศิริ สุริยวงศ์
๒๑) นายวิฑูรย์ วชิรัตน์
๒๒) นางสาวสอาด จอสูงเนิน
๒๓) นางสาวสุกัญญา อยู่มี
๒๔) นางสาวลลิตา ตริยโธม
๒๕) นายเจษฎา แซ่หว้า
๒๖) นายอรรถพล วงศ์สวัสดิ์
๒๗) นายประยัด จิวเดช
๒๘) นายบุญพล กรังดา
๒๙) นายวีรพล บุตสา
๓๐) นายพิเชฐ อยู่รัมย์
๓๑) นายณัฐดนัย ศรีรัตนชัย

ค. ขอช่วยสามเล่มที่ได้รับข้อเสนอแนะให้ทราบในน้ำเสีย น้ำใต้ดิน อากาศเสีย สิ่งปฏิกูลหรือ
วัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย

หนังสือฉบับนี้ส่งมอบมาในวันที่ ๑๓ มีนาคม ๒๕๖๙ หากประสงค์จะขออายุหนังสือ
กรุณาขออายุการบริการวิเคราะห์และประเมินผลเสียและขออายุการบริการวิเคราะห์และ
ประเมินผลเสียก่อนวันก่อนวันส่งมอบหนังสือรับข้อเสนอแนะให้ทราบก่อนการบริการวิเคราะห์และ
ประเมินผลเสีย

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

ผู้อำนวยการโรงงานและประเมินผลเสีย
บริษัท โรงงานเหล็กและเหล็กกล้า

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์และประเมินผลเสียและขออายุการบริการวิเคราะห์และ
ประเมินผลเสีย โทร. ๐ ๒๕๓๐ ๖๓๒๒ ต่อ ๒๐๓๓-๕
โทรสาร ๐ ๒๕๓๐ ๖๓๒๒ ต่อ ๒๐๓๔
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mall.go.th

๑๓) นายจิรวัฒน์...



"อุตสาหกรรมก้าวหน้า ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"



เอกสารแนบท้ายหนังสือรับรองอายุขี้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เทคนิควิเคราะห์สิ่งแวดล้อมไทย จำกัด
ที่ อก ๐๓๑๐(๑)/ ๙ ๙ ๗ ๖
เลขทะเบียน ๖-๒๓๖
ลงวันที่ ๒๒ มิถุนายน ๒๕๖๖
ขอช่วยสามารถพิมพ์ที่รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๓๗ รายการ
นี้ นำเสีย จำนวน 40 ไร่

ลำดับที่	สารเคมี	วิธีการวิเคราะห์
1	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
2	Arsenic	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁴⁾
3	Barium	1) Digestion, Direct Nitrous Oxide-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾
4	α-BHC	3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
5	γ-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
6	Biochemical Oxygen Demand	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
7	Cadmium	5-Day BOD Test, Azide Modification Method ⁽⁴⁾ 1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾
8	Chemical Oxygen Demand	3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
9	Chlordane	Closed Reflux, Titrimetric Method ⁽⁴⁾
10	Chromium	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾
11	Color	3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾ ADMI Weighted-Ordinate Spectrophotometric Method ⁽⁴⁾
12	Copper	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾
13	Cyanide	3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
14	4,4'-DDE	Distillation, Colorimetric Method ⁽⁴⁾
15	4,4'-DDT	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
16	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾

17 Endosulfan I...

ลำดับที่	สารเคมี	วิธีการวิเคราะห์
17	Endosulfan I	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
18	Endosulfan II	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
19	Endosulfan Sulfate	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
20	Endrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
21	Formaldehyde	Distillation, Colorimetric Method ⁽³⁾
22	Free Chlorine	DPD Ferrous Titrimetric Method ⁽⁴⁾
23	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
24	Heptachlor Epoxide	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
25	Hexavalent Chromium	Colorimetric Method ⁽⁴⁾
26	Lead	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾
27	Manganese	3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾ 1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾
28	Mercury	3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾ Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽⁴⁾
29	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾
30	Oil & Grease	3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾ 1) Liquid-Liquid, Partition-Gravimetric Method ⁽⁴⁾ 2) Soxhlet Extraction Method ⁽⁴⁾
31	pH	Electrometric Method ⁽⁴⁾
32	Phenols	Distillation, Direct Photometric Method ⁽⁴⁾
33	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁴⁾
34	Sulfide	1) Iodometric Method ⁽⁴⁾ 2) Methylene Blue Method ⁽⁴⁾
35	Temperature	Laboratory and Field Methods ⁽⁴⁾
36	Total Dissolved Solids	Dried at 180 °C ⁽⁴⁾
37	Total Kjeldahl Nitrogen	Macro-Kjeldahl Method ⁽⁴⁾
38	Total Suspended Solids	Dried at 103-105 °C ⁽⁴⁾

39 Trivalent Chromium....

ลำดับที่	สารมลพิษ	วิธีการหาห้
39	Trivalent Chromium	Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ^(ก)
40	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ^(ก) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(ก) 3) Digestion, Inductively Coupled Plasma Method ^(ก)

น้ำใต้ดิน จำนวน 122 รายการ

ลำดับที่	สารมลพิษ	วิธีการหาห้
1	Acenaphthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
2	Acetone	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
3	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ^(ก)
4	Anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
5	Antimony	1) Digestion, Direct Air-Acetylene Flame Method ^(ก) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(ก) 3) Digestion, Inductively Coupled Plasma Method ^(ก)
6	Arsenic	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(ก)
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic Method ^(ก)
8	Barium	1) Digestion, Direct Nitrous Oxide-Acetylene Flame Method ^(ก) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(ก) 3) Digestion, Inductively Coupled Plasma Method ^(ก)
9	Benz(a)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
10	Benzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
11	Benzob(b)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
12	Benzok(k)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)

13 Benzoic acid...

ลำดับที่	สารมลพิษ	วิธีการหาห้
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
14	Benzo(a)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
15	Benzo(g,h,i)perylene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
16	Beryllium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(ก) 2) Digestion, Inductively Coupled Plasma Method ^(ก)
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
20	Bromoform	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
21	Butanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
22	Buryl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(ก)
23	Cadmium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(ก) 2) Digestion, Inductively Coupled Plasma Method ^(ก)
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic Method ^(ก)
25	Carbon disulfide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
27	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic Method ^(ก)
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic Method ^(ก)
29	Chlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)
31	Chloroform	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(ก)

26 Chromium...

ลำดับที่	สารเคมี	วิธีวิเคราะห์
32	Chromium	1) Digestion, Direct Air-Acetylene Flame Method ^(d) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(d) 3) Digestion, Inductively Coupled Plasma Method ^(d)
33	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ^(d) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method; Colorimetric Method; Calculation ^(d) 3) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ^(d) Colorimetric Method ^(d)
34	Chromium (VI)	Colorimetric Method ^(d)
35	Chrysene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(d)
36	Cyanide	Distillation, Colorimetric Method ^(d)
37	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
38	DDD	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
39	DDE	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
40	DDT	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
41	Dibenz(a,h)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(d)
42	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(d)
43	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
44	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
45	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
46	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
47	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
48	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
49	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)

50 trans-1,2-Dichloroethylene...

ลำดับที่	สารเคมี	วิธีวิเคราะห์
50	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
51	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
52	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
53	1,3-Dichloropropene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
54	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
55	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(d)
56	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
57	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
58	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
59	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
60	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(d)
61	Endosulfan	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
62	Endrin	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
63	Ethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
64	Fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(d)
65	Fluorene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(d)
66	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
67	Heptachlor epoxide	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
68	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
69	n-Hexane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(d)
70	α-HCH	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
71	β-HCH	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
72	γ-HCH	Liquid-Liquid Extraction, Gas Chromatographic Method ^(d)
73	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(d)

74 Hexachloroethane...

ลำดับที่	สารเคมี	วิธีการหาค่า
74	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
75	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
76	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
77	Lead	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(a) 2) Digestion, Inductively Coupled Plasma Method ^(a)
78	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ^(a) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(a)
79	Mercury	3) Digestion, Inductively Coupled Plasma Method ^(a) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(a)
80	Methanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(a)
81	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ^(a)
82	Methyl bromide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(a)
83	Methylene chloride	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
84	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
85	2-Methylnaphthalene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
86	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(a)
87	Naphthalene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(a)
88	Nickel	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(a) 2) Digestion, Inductively Coupled Plasma Method ^(a)
89	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
90	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)

91 N Nitrosodi-n-propylamine...

ลำดับที่	สารเคมี	วิธีการหาค่า
91	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
92	Polychlorinated Biphenyls PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Liquid-Liquid Extraction, Gas Chromatographic Method ^(a) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a) 1) Distillation, Direct Photometric Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a)
93	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method ^(a)
94	pH	
95	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
96	Phenol	1) Distillation, Direct Photometric Method ^(a) 2) Liquid-Liquid Extraction, Gas Chromatographic Method ^(a)
97	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(a)
98	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(a)
99	Silver	1) Digestion, Direct Air-Acetylene Flame Method ^(a) 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^(a)
100	Styrene	3) Digestion, Inductively Coupled Plasma Method ^(a) Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(a)
101	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(a)
102	Tetrachloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(a)
103	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^(a)
104	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic Method ^(a)
105	TPH (C ₅ -C ₁₀)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(a)

106 TPH (C₅-C₁₀)...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
106	TPH (C ₁₀ -C ₁₆)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(9,22)
107	TPH (C ₁₀ -C ₁₆)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(9,22)
108	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
109	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
110	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
111	Trichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
112	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁶⁾
113	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁶⁾
114	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
115	Vanadium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁶⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁶⁾
116	Vinyl acetate	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
117	Vinyl chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
118	m-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
119	o-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
120	p-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
121	Xylene (Total)	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
122	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁶⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁶⁾

อากาศเสีย...

อากาศเสีย (ปล่องระเหย) จำนวน 18 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁽⁵⁾ 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁽⁵⁾ 3) Isokinetic Sampling, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ⁽⁵⁾ Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁵⁾ Instrumental Analyzer Method ⁽⁵⁾ Absorption Sampling, Ion Chromatographic Method ⁽⁵⁾ 1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁽⁵⁾ 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁽⁵⁾ Adsorption Sampling, Gas Chromatographic Method ⁽⁵⁾ Isokinetic Sampling, Analysis by ISO/IEC 17025 Accredited Laboratory or Analysis by Department of Industrial Works Registered Laboratory (Dioxins/Furans Analysis Approved) ⁽⁵⁾ Absorption Sampling, Ion Chromatographic Method ⁽⁵⁾ Absorption Sampling, Ion Chromatographic Method ⁽⁵⁾ Absorption Sampling, Iodometric Method ⁽⁵⁾ 1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁽⁵⁾ 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁽⁵⁾ 3) Isokinetic Sampling, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ⁽⁵⁾ Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽⁵⁾ Ringelmann's Method ⁽²⁾ 1) Absorption Sampling, Phenoldisulfide Method ⁽⁵⁾ 2) Instrumental Analyzer Method ⁽⁵⁾
2	Arsenic	
3	Carbon monoxide	
4	Chlorine	
5	Copper	
6	Cresol	
7	Dioxins/Furans	
8	Hydrogen Chloride	
9	Hydrogen Fluoride	
10	Hydrogen Sulfide	
11	Lead	
12	Mercury	
13	Opacity	
14	Oxides of Nitrogen	

15 Sulfur dioxide...

ลำดับที่	สารเคมี	วิธีวิเคราะห์
15	Sulfur dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Method ^[5] 2) Instrumental Analyzer Method ^[5]
16	Sulfuric acid	Isokinetic Sampling, Barium-Thorin Titrimetric Method ^[5]
17	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method ^[5]
18	Xylene	Absorption Sampling, Gas Chromatographic Method ^[5]

สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 36 รายการ

ลำดับที่	สารเคมี	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^[1,10,24] 2) Solid-Phase Extraction, Gas Chromatographic Method ^[10,24] 3) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]
2	Antimony	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14]
3	Arsenic	4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,16] 6) Digestion, Inductively Coupled Plasma Method ^[7,14] 1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^[1,6,17] 2) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^[7,17]
4	Barium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14]

4) Digestion...

ลำดับที่	สารเคมี	วิธีวิเคราะห์
5	Beryllium	4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,16] 6) Digestion, Inductively Coupled Plasma Method ^[7,14] 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14]
6	Cadmium	4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,16] 6) Digestion, Inductively Coupled Plasma Method ^[7,14] 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14]
7	Chlordane	4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,16] 6) Digestion, Inductively Coupled Plasma Method ^[7,14] 1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^[1,10,24] 2) Solid-Phase Extraction, Gas Chromatographic Method ^[10,24] 3) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14]

3) Waste Extraction...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
9	Chromium (III)	3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16) 6) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(1.6,15,18) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^(1.6,16,18) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^(1.6,14,18) 4) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.2,15,18) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.8,14,18) 6) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7.2,14,18) 1) Waste Extraction, Colorimetric Method ^(1.18) 2) Alkaline Digestion, Colorimetric Method ^(8,18) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16) 6) Digestion, Inductively Coupled Plasma Method ^(7.14)
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method ^(1.18) 2) Alkaline Digestion, Colorimetric Method ^(8,18)
11	Cobalt	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16) 6) Digestion, Inductively Coupled Plasma Method ^(7.14)

12 Copper...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16) 6) Digestion, Inductively Coupled Plasma Method ^(7.14) 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.9,24) 2) Soxhlet Extraction, Gas Chromatographic Method ^(11,24) 1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(11,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(11,24) 1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(11,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(11,24) 1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(11,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(11,24) 1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(11,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
13	2,4-D	
14	DDD	
15	DDE	
16	DDT	
17	Dieldrin	

18 Endrin...

ลำดับที่	สารมลพิษ	วิธีการหาค่า
18	Endrin	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1.10.24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10.24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(1.24)
19	Heptachlor	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1.10.24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10.24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(1.24)
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6.13) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6.16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6.14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16) 6) Digestion, Inductively Coupled Plasma Method ^(7.16)
21	Lindane	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1.10.24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10.24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(1.10.24)
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(1.6.19) 2) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽²⁰⁾
23	Methoxychlor	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1.10.24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10.24)

3) Soxhlet...

ลำดับที่	สารมลพิษ	วิธีการหาค่า
24	Mirex	3) Soxhlet Extraction, Gas Chromatographic Method ^(1.1.24) 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.2.24) 2) Soxhlet Extraction, Gas Chromatographic Method ^(1.1.24)
25	Molybdenum	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6.13) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6.16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6.14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16) 6) Digestion, Inductively Coupled Plasma Method ^(7.16)
26	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6.13) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6.16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6.14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16) 6) Digestion, Inductively Coupled Plasma Method ^(7.16)
27	Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 2,2',5,5'-Tetrachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.2.23) 2) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1.10.23) 3) Soxhlet Extraction, Gas Chromatographic Method ^(1.1.23)

2,2',4,5,5'...

ลำดับที่	สารเคมี	วิธีการตรวจ
28	2,2',4,5,5'-Pentachlorobiphenyl 2,2',3,4,4',5'-Hexachlorobiphenyl 2,2',4,4',5,5'-Hexachlorobiphenyl 2,2',3,4,4',5,5'-Heptachlorobiphenyl Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.9,24) 2) Soxhlet Extraction, Gas Chromatographic Method ^(11,24) 1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(1.6,21) 2) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7,21) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)
29	Selenium	
30	Silver	
31	Thallium	

32 Toxaphene...

ลำดับที่	สารเคมี	วิธีการตรวจ
32	Toxaphene	1) Waste Extraction, Solid Phase Extraction, Gas Chromatographic Method ^(1.10,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^(11,27) 1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(11,22,26) 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(11,32,26) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,26) 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1.6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)
33	Trichloroethylene	
34	Vanadium	
35	Vinyl chloride	
36	Zinc	

ดิน...

รูป จำนวน 121 รายการ

ลำดับที่	สารเคมี	วิธีการหาค่า
1	Acenaphthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
2	Acetone	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
3	Aldrin	Soxhlet Extraction, Gas Chromatographic Method ^(11.26)
4	Anthrane	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
5	Antimony	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16)
6	Arsenic	3) Digestion, Inductively Coupled Plasma Method ^(7.14) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7.17)
7	Atrazine	Soxhlet Extraction, Gas Chromatographic Method ^(11.26)
8	Barium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16)
9	Benz(a)anthracene	3) Digestion, Inductively Coupled Plasma Method ^(7.14) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
10	Benzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
11	Benzo(b)fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
12	Benzo(k)fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
13	Benzoic acid	Soxhlet Extraction, Gas Chromatographic Method ^(11.23)
14	Benzo(a)pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
15	Benzo(g,h,i)perylene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
16	Beryllium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15)

2) Digestion...

ลำดับที่	สารเคมี	วิธีการหาค่า
17	Bis(2-chloroethyl)ether	2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16) 3) Digestion, Inductively Coupled Plasma Method ^(7.14)
18	Bis(2-ethylhexyl)phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
19	Bromodichloromethane	Mass Spectrometric Method ^(11.27) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
20	Bromoform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
21	Butanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
22	Butyl benzyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
23	Cadmium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7.16)
24	Carbazole	3) Digestion, Inductively Coupled Plasma Method ^(7.14) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
27	Chlordane	Soxhlet Extraction, Gas Chromatographic Method ^(11.24)
28	p-Chloroaniline	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11.27)
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13.26)
32	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7.15)

2) Digestion...

ลำดับที่	สารเคมีพิษ	วิธีวิเคราะห์
33	Chromium (III)	2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,16) 1) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7,8,15,18) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7,8,16,18) 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7,8,14,18)
34	Chromium (VI)	Alkaline Digestion, Colorimetric Method ^(8,18)
35	Chrysene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
36	Cyanide	1) Extraction, Distillation, Titrimetric Method ^(28,29,30) 2) Extraction, Distillation, Colorimetric Method ^(28,29,30)
37	2,4-D	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
38	DDD	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
39	DDE	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
40	DDT	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
41	Dibenz(a,h)anthracene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
42	Di-n-butyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
43	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
44	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
45	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
46	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
47	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
48	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)

49 cis-1,2-Dichloroethylene...

ลำดับที่	สารเคมีพิษ	วิธีวิเคราะห์
49	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
50	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
51	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
52	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
53	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
54	Dieldrin	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
55	Diethyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
56	2,4-Dimethylphenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
57	2,4-Dinitrophenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
58	2,4-Dinitrotoluene	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
59	2,6-Dinitrotoluene	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
60	Di-n-Octyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
61	Endosulfan	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
62	Endrin	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
63	Ethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
64	Fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
65	Fluorene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
66	Heptachlor	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
67	Heptachlor epoxide	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
68	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
69	n-Hexane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
70	α-HCH	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
71	β-HCH	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
72	γ-HCH	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)

73 Hexachlorocyclopentadiene...

ลำดับที่	สารเคมี	วิธีการวิเคราะห์
73	Hexachlorocyclopentadiene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
74	Hexachloroethane	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
75	Indeno(1,2,3-cd)pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
76	Isophorone	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
77	Lead	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
78	Manganese	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
79	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽²⁸⁾
80	Methanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
81	Methoxychlor	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
82	Methyl bromide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
83	Methylene chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
84	2-Methylphenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
85	2-Methylnaphthalene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
86	Methyl tert-butyl ether	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
87	Naphthalene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
88	Nickel	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled P

89 Nitrobenzene...

ลำดับที่	สารเคมี	วิธีการวิเคราะห์
89	Nitrobenzene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
90	N-Nitrosodiphenylamine	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
91	N-Nitrosodi-n-propylamine	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
92	Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 2,2',5,5'-Tetrachlorobiphenyl 2,2',4,5,5'-Pentachlorobiphenyl 2,2',3,4',5'- Hexachlorobiphenyl 2,2',4,4',5,5'- Hexachlorobiphenyl 2,2',3,4',4',5,5'- Heptachlorobiphenyl Pentachlorophenol Phenanthrene	Soxhlet Extraction, Gas Chromatographic Method ^(11,24) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27) Soxhlet Extraction, Gas Chromatographic Method ^(11,23) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7,21) 1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
93	Phenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
94	Pyrene	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
95	Selenium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
96	Silver	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
97	Styrene	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)

100 1,1,2,2-Tetrachloroethane...

ลำดับที่	สารเคมี	วิธีวิเคราะห์
100	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
101	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
102	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
103	Toxaphene	Soxhlet Extraction, Gas Chromatographic Method ^(1,12,4)
104	TPH (C ₅ -C ₉)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
105	TPH (C ₁₀ -C ₁₆)	Soxhlet Extraction, Gas Chromatographic Method ^(1,12,2)
106	TPH (C ₁₆ -C ₃₃)	Soxhlet Extraction, Gas Chromatographic Method ^(1,12,2)
107	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
108	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
109	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
110	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
111	2,4,5-Trichlorophenol	Soxhlet Extraction, Gas Chromatographic Method ^(1,12,3)
112	2,4,6-Trichlorophenol	Soxhlet Extraction, Gas Chromatographic Method ^(1,12,3)
113	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
114	Vanadium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,13) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
115	Vinyl acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
116	Vinyl chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
117	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
118	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
119	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)

120 Xylene (Total)

ลำดับที่	สารเคมี	วิธีวิเคราะห์
120	Xylene (Total)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(1,3,26)
121	Zinc	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,18) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)

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