

ภาคผนวก ง

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม
ระหว่างเดือนมกราคม ถึงมิถุนายน พ.ศ.2568

ภาคผนวก ง.1

ใบรับรองผลการตรวจวัดคุณภาพอากาศจากแหล่งกำเนิด

The Monitoring Result of Emission Concentration
100-H1
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 5, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.27	5.20	45.64	45.65	40.42
2	5.45	5.40	46.03	46.04	41.29
3	5.36	5.33	45.91	45.92	40.99
Average	5.36	5.31	45.86	45.87	40.90

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.27	5.20	9.79	9.77	8.65
2	5.45	5.40	9.64	9.61	8.62
3	5.36	5.33	9.78	9.75	8.70
Average	5.36	5.31	9.73	9.71	8.66

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 5, 2025
Start time: 10:30 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200EH
SO₂ instrument Model: Teledyne 100EH
Fuel Type : Natural Gas
Location : 100-H1
Finish time : 10:50 AM
Serial No.: 161212-14
Serial No.: 435
Serial No.: 145
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
10:30 AM	5.06	45.03	9.86
10:31 AM	5.09	44.98	9.99
10:32 AM	5.18	45.11	10.10
10:33 AM	5.13	44.86	10.18
10:34 AM	5.22	45.14	10.09
10:35 AM	5.16	45.57	10.05
10:36 AM	5.25	45.62	10.07
10:37 AM	5.16	45.71	9.98
10:38 AM	5.27	45.75	9.69
10:39 AM	5.30	45.79	9.60
10:40 AM	5.28	45.73	9.55
10:41 AM	5.29	45.59	9.64
10:42 AM	5.31	45.68	9.69
10:43 AM	5.30	45.89	9.71
10:44 AM	5.35	45.88	9.71
10:45 AM	5.40	45.80	9.68
10:46 AM	5.35	45.81	9.61
10:47 AM	5.31	45.87	9.56
10:48 AM	5.42	46.18	9.68
10:49 AM	5.39	46.29	9.62
10:50 AM	5.40	46.06	9.53
Average	5.27	45.64	9.79

Signature 
(Miss Katesarin Vorradetwittaya)
Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 5, 2025
 Start time: 10:51 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200EH
 SO₂ instrument Model: Teledyne 100EH
 Fuel Type : Natural Gas

Location : 100-H1
 Finish time : 11:11 AM
 Serial No.: 161212-14
 Serial No.: 435
 Serial No.: 145
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
10:51 AM	5.39	45.80	9.57
10:52 AM	5.46	45.78	9.52
10:53 AM	5.46	45.85	9.56
10:54 AM	5.39	45.72	9.54
10:55 AM	5.35	45.84	9.50
10:56 AM	5.37	46.00	9.48
10:57 AM	5.40	45.83	9.45
10:58 AM	5.36	45.57	9.43
10:59 AM	5.37	45.41	9.48
11:00 AM	5.49	45.75	9.99
11:01 AM	5.56	46.19	9.90
11:02 AM	5.58	46.17	9.80
11:03 AM	5.56	46.34	9.68
11:04 AM	5.53	46.57	9.59
11:05 AM	5.45	46.41	9.55
11:06 AM	5.50	46.31	9.53
11:07 AM	5.47	46.25	9.63
11:08 AM	5.49	46.19	9.96
11:09 AM	5.44	46.11	9.77
11:10 AM	5.44	46.17	9.68
11:11 AM	5.43	46.45	9.74
Average	5.45	46.03	9.64

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 5, 2025
 Start time: 11:12 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200EH
 SO₂ instrument Model: Teledyne 100EH
 Fuel Type : Natural Gas

Location : 100-H1
 Finish time : 11:32 AM
 Serial No.: 161212-14
 Serial No.: 435
 Serial No.: 145
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:12 AM	5.39	46.50	9.68
11:13 AM	5.42	46.35	9.73
11:14 AM	5.45	45.96	9.71
11:15 AM	5.39	45.67	9.71
11:16 AM	5.35	45.76	9.73
11:17 AM	5.37	45.74	9.72
11:18 AM	5.33	45.97	9.76
11:19 AM	5.34	46.13	9.77
11:20 AM	5.37	46.18	9.69
11:21 AM	5.42	46.35	9.75
11:22 AM	5.44	46.25	9.81
11:23 AM	5.37	45.87	9.79
11:24 AM	5.38	45.72	9.76
11:25 AM	5.41	45.69	9.85
11:26 AM	5.29	45.60	9.89
11:27 AM	5.20	45.51	9.87
11:28 AM	5.28	45.62	9.90
11:29 AM	5.31	45.76	9.88
11:30 AM	5.29	45.77	9.89
11:31 AM	5.37	45.79	9.83
11:32 AM	5.37	45.86	9.63
Average	5.36	45.91	9.78

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096MON1H-Stk/100-H1
	Branch 4 (Aromatics 1 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 05/03/2025
RECEIVED DATE	: 13/03/2025	ANALYTICAL DATE	: 14/03/2025-03/04/2025
REPORT DATE	: 04/04/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: 100-H1	OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 52.61	m	Gas Velocity	: 4.9	m/s
Diameter	: 1.44	m	Flow rate ^{1/}	: 299	Ncu.m/min
Temperature	: 153.8	°C	Excess Oxygen	: 5.3	%
Moisture	: 10.3	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		5.3%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	9.71	8.66	0.13	60*/12.69**	0.17**	US. EPA Method 6C
Oxide of Nitrogen	ppm	45.87	40.90	0.43	200*/59.19**	0.57**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-ก-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-ก-0006

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096MON1H-Stk/100-H1
	Branch 4 (Aromatics 1 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 05/03/2025
RECEIVED DATE	: 07/03/2025	ANALYTICAL DATE	: 15/03/2025
REPORT DATE	: 15/03/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: 100-H1	OPERATOR	: Mr. Rommdon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 52.61	m	Gas Velocity	: 4.9	m/s
Diameter	: 1.44	m	Flow rate ^{1/}	: 299	Ncu.m/min
Temperature	: 153.8	°C	Excess Oxygen	: 5.3	%
Moisture	: 10.3	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		5.3%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	2.46	2.19	0.022	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
100-H1A
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 5, 2025


Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.96	4.89	11.19	11.17	9.70
2	4.82	4.76	11.38	11.35	9.77
3	4.80	4.75	11.44	11.41	9.82
Average	4.86	4.80	11.34	11.31	9.76

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.96	4.89	5.37	5.33	4.63
2	4.82	4.76	5.41	5.36	4.62
3	4.80	4.75	5.52	5.47	4.71
Average	4.86	4.80	5.43	5.39	4.65

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 5, 2025
Start time: 10:30 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : 100-H1A
Finish time : 10:50 AM
Serial No.: 161212-13
Serial No.: 314
Serial No.: 058
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
10:30 AM	5.14	11.35	5.64
10:31 AM	5.12	11.19	5.45
10:32 AM	5.06	11.13	5.48
10:33 AM	4.89	11.27	5.41
10:34 AM	4.78	11.26	5.42
10:35 AM	4.95	11.29	5.42
10:36 AM	4.68	11.37	5.46
10:37 AM	4.77	11.20	5.39
10:38 AM	4.86	11.10	5.36
10:39 AM	5.06	11.20	5.37
10:40 AM	5.10	11.12	5.27
10:41 AM	5.09	11.18	5.26
10:42 AM	5.04	11.21	5.30
10:43 AM	5.07	11.14	5.37
10:44 AM	4.92	11.24	5.17
10:45 AM	4.98	10.70	5.28
10:46 AM	5.00	10.80	5.36
10:47 AM	4.85	11.20	5.36
10:48 AM	4.99	11.18	5.36
10:49 AM	4.95	11.34	5.32
10:50 AM	4.76	11.46	5.31
Average	4.96	11.19	5.37

Signature 
(Miss Katesarin Vorradetwittaya)
Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 5, 2025
 Start time: 10:51 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 100-H1A
 Finish time : 11:11 AM
 Serial No.: 161212-13
 Serial No.: 314
 Serial No.: 058
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
10:51 AM	4.92	11.36	5.36
10:52 AM	4.85	11.29	5.35
10:53 AM	4.81	11.48	5.35
10:54 AM	4.80	11.44	5.32
10:55 AM	4.82	11.48	5.31
10:56 AM	4.82	11.46	5.35
10:57 AM	4.86	11.36	5.35
10:58 AM	4.78	11.39	5.43
10:59 AM	4.79	11.34	5.42
11:00 AM	4.88	11.37	5.39
11:01 AM	4.88	11.39	5.39
11:02 AM	4.87	11.30	5.46
11:03 AM	4.82	11.36	5.46
11:04 AM	4.66	11.54	5.46
11:05 AM	4.70	11.31	5.46
11:06 AM	4.84	11.13	5.46
11:07 AM	4.82	11.28	5.46
11:08 AM	4.89	11.37	5.46
11:09 AM	4.88	11.42	5.43
11:10 AM	4.77	11.46	5.48
11:11 AM	4.66	11.41	5.45
Average	4.82	11.38	5.41

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 5, 2025
 Start time: 11:12 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 100-H1A
 Finish time : 11:32 AM
 Serial No.: 161212-13
 Serial No.: 314
 Serial No.: 058
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:12 AM	4.65	11.32	5.49
11:13 AM	4.80	11.43	5.58
11:14 AM	4.90	11.38	5.57
11:15 AM	4.90	11.39	5.58
11:16 AM	4.84	11.46	5.69
11:17 AM	4.67	11.40	5.10
11:18 AM	4.52	11.47	5.27
11:19 AM	4.62	11.48	5.50
11:20 AM	4.69	11.33	5.68
11:21 AM	4.72	11.30	5.59
11:22 AM	4.74	11.36	5.58
11:23 AM	4.89	11.35	5.70
11:24 AM	4.96	11.46	5.54
11:25 AM	4.97	11.59	5.58
11:26 AM	4.71	11.51	5.58
11:27 AM	4.82	11.48	5.54
11:28 AM	4.86	11.48	5.54
11:29 AM	4.78	11.66	5.48
11:30 AM	4.90	11.47	5.47
11:31 AM	4.90	11.42	5.49
11:32 AM	4.90	11.60	5.47
Average	4.80	11.44	5.52

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/100-H1A
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 100-H1A OPERATOR : Mr. Song Hengchwankul
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 52.61 m Gas Velocity : 3.3 m/s
Diameter : 1.44 m Flow rate^{1/} : 168 Ncu.m/min
Temperature : 234.5 °C Excess Oxygen : 4.8 %
Moisture : 10.8 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		4.8%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	5.39	4.65	0.04	60*/14.89**	0.11**	US. EPA Method 6C
Oxide of Nitrogen	ppm	11.31	9.76	0.06	200*/99.84**	0.53**	US. EPA Method 7E


(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 3-239-ก-0006


(Miss Preeda Somjai)

Technical Management Team

REG. NO. 3-239-ก-0006

Remark : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/100-H1A
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 07/03/2025 ANALYTICAL DATE : 15/03/2025
REPORT DATE : 15/03/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 100-H1A OPERATOR : Mr. Rommadon Lemmad
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 52.61 m Gas Velocity : 3.3 m/s
Diameter : 1.44 m Flow rate^{1/} : 168 Ncu.m/min
Temperature : 234.5 °C Excess Oxygen : 4.8 %
Moisture : 10.8 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		4.8%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	3.77	3.25	0.019	-	-	US. EPA Method 25A


(Miss Sudaporn Soonthorn)
Analyst


(Miss Narisa Poowasanpetch)
Technical Management Team

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Std/100-H1A
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 100-H1A OPERATOR : Mr. Song Hengchwankul
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas
STACK DESCRIPTION

Height : 52.61 m Gas Velocity : 3.3 m/s
Diameter : 1.44 m Flow rate^{1/} : 168 Ncu.m/min
Temperature : 234.5 °C Excess Oxygen : 4.8 %
Moisture : 10.8 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD*	REFERENCE
		4.8%O ₂	7%O ₂	g/s		
Carbon monoxide	ppm	36.54	31.55	0.12	690	US. EPA Method 10

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-ก-0006

Preeda S.

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-ก-0006

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment,
B.E.2549 (2006) (at 7 % O₂).

The Monitoring Result of Emission Concentration

150-H1/H2

PTT Global Chemical Public Co., Ltd.

(Branch 4 : Aromatics 1 Plant)

March 6, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	3.80	3.79	33.05	33.04	26.84
2	3.75	3.72	33.23	33.22	26.88
3	3.68	3.64	33.19	33.18	26.72
Average	3.74	3.72	33.16	33.15	26.81

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	3.80	3.79	5.70	5.67	4.61
2	3.75	3.72	5.63	5.60	4.53
3	3.68	3.64	5.61	5.58	4.49
Average	3.74	3.72	5.65	5.62	4.54

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1

Date: March 6, 2025
 Start time: 11:00 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 150-H1/H2
 Finish time : 11:20 AM
 Serial No.: 121121-10
 Serial No.: 314
 Serial No.: 132
 Test Operator : Song H.

Time, min	O ₂ (%)	NOx (ppm)	SO2 (ppm)
11:00 AM	3.78	33.36	5.49
11:01 AM	3.84	33.02	5.69
11:02 AM	3.87	33.00	5.67
11:03 AM	3.77	32.96	5.58
11:04 AM	3.85	33.10	5.58
11:05 AM	3.86	32.89	5.49
11:06 AM	3.88	32.67	5.49
11:07 AM	3.84	32.71	5.49
11:08 AM	3.89	33.49	5.47
11:09 AM	3.87	33.52	5.66
11:10 AM	3.80	32.97	5.63
11:11 AM	3.80	33.06	5.48
11:12 AM	3.77	33.01	5.44
11:13 AM	3.78	33.38	5.85
11:14 AM	3.77	33.47	6.07
11:15 AM	3.85	33.55	5.78
11:16 AM	3.73	33.42	6.07
11:17 AM	3.66	32.80	5.98
11:18 AM	3.71	32.57	5.98
11:19 AM	3.75	32.59	5.89
11:20 AM	3.69	32.47	5.85
Average	3.80	33.05	5.70

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 6, 2025
 Start time: 11:21 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 150-H1/H2
 Finish time : 11:41 AM
 Serial No.: 121121-10
 Serial No.: 314
 Serial No.: 132
 Test Operator : Song H.

Time, min	O ₂ (%)	NOx (ppm)	SO2 (ppm)
11:21 AM	3.72	32.57	5.79
11:22 AM	3.71	32.64	5.71
11:23 AM	3.69	32.59	5.67
11:24 AM	3.65	32.76	5.73
11:25 AM	3.73	33.20	5.62
11:26 AM	3.75	33.51	5.53
11:27 AM	3.77	33.47	5.53
11:28 AM	3.81	33.47	5.64
11:29 AM	3.85	33.55	5.77
11:30 AM	3.88	33.43	5.67
11:31 AM	3.71	33.10	5.75
11:32 AM	3.73	33.07	5.63
11:33 AM	3.74	33.50	5.67
11:34 AM	3.76	33.53	5.63
11:35 AM	3.73	33.45	5.64
11:36 AM	3.78	33.33	5.64
11:37 AM	3.73	33.27	5.47
11:38 AM	3.68	33.01	5.48
11:39 AM	3.80	33.30	5.53
11:40 AM	3.77	33.51	5.58
11:41 AM	3.76	33.65	5.62
Average	3.75	33.23	5.63

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited

EMISSION TEST RESULT

Run # : 3

Date: March 6, 2025
 Start time: 11:42 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 150-H1/H2
 Finish time : 12:02 PM
 Serial No.: 121121-10
 Serial No.: 314
 Serial No.: 132
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:42 AM	3.76	33.35	5.62
11:43 AM	3.74	33.11	5.76
11:44 AM	3.66	32.94	5.71
11:45 AM	3.65	32.16	5.68
11:46 AM	3.70	31.87	5.74
11:47 AM	3.66	32.47	5.67
11:48 AM	3.64	32.14	5.69
11:49 AM	3.69	32.80	5.44
11:50 AM	3.70	33.95	5.48
11:51 AM	3.73	33.79	5.42
11:52 AM	3.71	33.30	5.47
11:53 AM	3.79	33.87	5.44
11:54 AM	3.71	34.52	5.47
11:55 AM	3.72	33.80	5.66
11:56 AM	3.67	33.18	5.63
11:57 AM	3.67	33.77	5.63
11:58 AM	3.62	33.48	5.47
11:59 AM	3.54	32.65	5.64
12:00 PM	3.57	32.89	5.67
12:01 PM	3.64	33.58	5.68
12:02 PM	3.62	33.36	5.76
Average	3.68	33.19	5.61

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Srk/150-H1/H2
 Branch 4 (Aromatics 1 Plant)

SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 06/03/2025

RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025

REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal

STACK LOCATION : 150-H1/H2 OPERATOR : Mr. Song Hengchwankul

SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 35.70 m Gas Velocity : 7.8 m/s

Diameter : 1.44 m Flow rate^{1/} : 424 Ncu.m/min

Temperature : 197.0 °C Excess Oxygen : 3.7 %

Moisture : 12.2 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		3.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	5.62	4.54	0.10	60*/10.37**	0.19**	US. EPA Method 6C
Oxide of Nitrogen	ppm	33.15	26.81	0.44	200*/60.74**	0.80**	US. EPA Method 7E



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-ก-0006



(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-ก-0006

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096MON1H-Stk/150-H1/H2
	Branch 4 (Aromatics 1 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 06/03/2025
RECEIVED DATE	: 13/03/2025	ANALYTICAL DATE	: 14/03/2025-03/04/2025
REPORT DATE	: 04/04/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: 150-H1/H2	OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas
STACK DESCRIPTION			

Height	: 35.70	m	Gas Velocity	: 7.8	m/s
Diameter	: 1.44	m	Flow rate ^{1/}	: 424	Ncu.m/min
Temperature	: 197.0	°C	Excess Oxygen	: 3.7	%
Moisture	: 12.2	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD*	REFERENCE METHOD
		3.7%O ₂	7%O ₂	g/s		
Carbon monoxide	ppm	0.60	0.49	0.005	690	US. EPA Method 10

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-ก-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-ก-0006

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096MON1H-Stk/150-H1/H2
	Branch 4 (Aromatics 1 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 06/03/2025
RECEIVED DATE	: 07/03/2025	ANALYTICAL DATE	: 15/03/2025
REPORT DATE	: 15/03/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: 150-H1/H2	OPERATOR	: Mr. Apiwat Meksuwan
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas
STACK DESCRIPTION			

Height	: 35.70	m	Gas Velocity	: 7.8	m/s
Diameter	: 1.44	m	Flow rate ^{1/}	: 424	Ncu.m/min
Temperature	: 197.0	°C	Excess Oxygen	: 3.7	%
Moisture	: 12.2	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD	REFERENCE METHOD
		3.7%O ₂	7%O ₂	g/s		
Total Volatile Organic Compounds	ppm	5.40	4.37	0.069	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
200-H1/H2/H3/H4/H5
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 6, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.83	5.76	34.42	34.42	31.60
2	5.65	5.59	34.43	34.43	31.26
3	5.62	5.56	34.49	34.49	31.25
Average	5.70	5.64	34.45	34.45	31.37

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.83	5.76	4.95	4.92	4.52
2	5.65	5.59	5.56	5.54	5.03
3	5.62	5.56	5.52	5.50	4.98
Average	5.70	5.64	5.34	5.32	4.84

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 6, 2025
Start time: 11:00 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: Teledyne 100 EH
Fuel Type : Natural Gas
Location : 200-H1/H2/H3/H4/H5
Finish time : 11:20 AM
Serial No.: 071023-47
Serial No.: 435
Serial No.: 186
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:00 AM	5.68	35.01	5.19
11:01 AM	5.61	35.10	5.20
11:02 AM	5.72	34.96	5.19
11:03 AM	5.56	34.82	5.24
11:04 AM	5.91	33.98	4.00
11:05 AM	5.81	34.01	4.31
11:06 AM	5.91	34.01	4.60
11:07 AM	6.02	34.06	4.74
11:08 AM	5.97	34.17	4.80
11:09 AM	5.91	34.09	4.92
11:10 AM	5.75	33.94	5.03
11:11 AM	5.82	33.92	5.04
11:12 AM	5.89	33.89	4.97
11:13 AM	5.83	33.97	4.90
11:14 AM	5.85	34.32	5.03
11:15 AM	5.90	34.72	5.03
11:16 AM	5.85	34.92	5.07
11:17 AM	5.79	34.80	5.18
11:18 AM	5.85	34.66	5.21
11:19 AM	5.87	34.65	5.15
11:20 AM	5.89	34.83	5.16
Average	5.83	34.42	4.95

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 6, 2025
 Start time: 11:21 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: Teledyne 100 EH
 Fuel Type : Natural Gas

Location : 200-H1/H2/H3/H4/H5
 Finish time : 11:41 AM
 Serial No.: 071023-47
 Serial No.: 435
 Serial No.: 186
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:21 AM	5.84	34.90	5.19
11:22 AM	5.92	34.91	5.22
11:23 AM	5.77	34.85	5.37
11:24 AM	5.58	34.61	5.47
11:25 AM	5.55	34.42	5.50
11:26 AM	5.62	34.38	5.51
11:27 AM	5.62	34.48	5.53
11:28 AM	5.63	34.49	5.56
11:29 AM	5.63	34.38	5.54
11:30 AM	5.73	34.29	5.51
11:31 AM	5.50	34.29	5.61
11:32 AM	5.53	34.19	5.61
11:33 AM	5.67	34.15	5.59
11:34 AM	5.51	34.31	5.73
11:35 AM	5.53	34.21	5.72
11:36 AM	5.54	34.11	5.77
11:37 AM	5.59	34.13	5.75
11:38 AM	5.69	34.22	5.74
11:39 AM	5.77	34.46	5.68
11:40 AM	5.74	34.63	5.60
11:41 AM	5.77	34.63	5.66
Average	5.65	34.43	5.56

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 6, 2025
 Start time: 11:42 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: Teledyne 100 EH
 Fuel Type : Natural Gas

Location : 200-H1/H2/H3/H4/H5
 Finish time : 12:02 PM
 Serial No.: 071023-47
 Serial No.: 435
 Serial No.: 186
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:42 AM	5.66	34.56	5.72
11:43 AM	5.65	34.45	5.67
11:44 AM	5.65	34.45	5.68
11:45 AM	5.56	34.38	5.70
11:46 AM	5.57	34.34	5.71
11:47 AM	5.54	34.28	5.72
11:48 AM	5.52	34.24	5.73
11:49 AM	5.56	34.27	5.71
11:50 AM	5.64	34.30	5.67
11:51 AM	5.69	34.42	5.62
11:52 AM	5.65	34.55	5.47
11:53 AM	5.69	34.64	5.34
11:54 AM	5.61	34.76	5.45
11:55 AM	5.62	34.70	5.38
11:56 AM	5.73	34.65	5.30
11:57 AM	5.65	34.71	5.27
11:58 AM	5.53	34.51	5.35
11:59 AM	5.43	34.28	5.39
12:00 PM	5.62	34.37	5.47
12:01 PM	5.68	34.65	5.30
12:02 PM	5.76	34.82	5.22
Average	5.62	34.49	5.52

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096MON1H-Stk/200-H1/H2/H3/H4/H5
	Branch 4 (Aromatics 1 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 06/03/2025
RECEIVED DATE	: 13/03/2025	ANALYTICAL DATE	: 14/03/2025-03/04/2025
REPORT DATE	: 04/04/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: 200-H1/H2/H3/H4/H5	OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas
STACK DESCRIPTION			

Height	: 84.00	m	Gas Velocity	: 7.1	m/s
Diameter	: 3.42	m	Flow rate ^{1/}	: 2,002	Ncu.m/min
Temperature	: 232.0	°C	Excess Oxygen	: 5.6	%
Moisture	: 13.1	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		5.6%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	5.32	4.84	0.47	60*/26.62**	0.96**	US. EPA Method 6C
Oxide of Nitrogen	ppm	34.45	31.37	2.16	200*/145.46**	3.77**	US. EPA Method 7E


(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 3-239-3-0006


(Miss Preeda Somjai)

Technical Management Team

REG. NO. 3-239-3-0006

- Remark :**
1. Reported analysis refers to submitted sample only.
 2. This report shall not be reproduced, except in full, without official approval.
 3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
 4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).
 5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096MON1H-Stk/200-H1/H2/H3/H4/H5
	Branch 4 (Aromatics 1 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 06/03/2025
RECEIVED DATE	: 07/03/2025	ANALYTICAL DATE	: 15/03/2025
REPORT DATE	: 15/03/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: 200-H1/H2/H3/H4/H5	OPERATOR	: Mr. Apiwat Meksuwan
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas
STACK DESCRIPTION			

Height	: 84.00	m	Gas Velocity	: 7.1	m/s
Diameter	: 3.42	m	Flow rate ^{1/}	: 2,002	Ncu.m/min
Temperature	: 232.0	°C	Excess Oxygen	: 5.6	%
Moisture	: 13.1	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		5.6%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	4.43	4.04	0.267	-	-	US. EPA Method 25A


(Miss Sudaporn Soonthorn)

Analyst


(Miss Narisa Poowasanpetch)

Technical Management Team

- Remark :**
1. Reported analysis refers to submitted sample only.
 2. This report shall not be reproduced, except in full, without official approval.
 3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
430-H1
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 4, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.74	5.73	67.20	67.23	61.60
2	5.74	5.75	66.69	66.71	61.21
3	5.72	5.75	66.46	66.48	60.99
Average	5.73	5.74	66.78	66.81	61.27

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.74	5.73	6.29	6.24	5.72
2	5.74	5.75	6.38	6.33	5.81
3	5.72	5.75	6.27	6.21	5.70
Average	5.73	5.74	6.31	6.26	5.74

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 4, 2025
Start time: 11:00 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : 430-H1
Finish time : 11:20 AM
Serial No.: 161212-14
Serial No.: 435
Serial No.: 058
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:00 AM	5.70	67.50	6.27
11:01 AM	5.74	66.78	6.33
11:02 AM	5.72	67.69	6.39
11:03 AM	5.75	67.44	6.39
11:04 AM	5.75	68.65	6.26
11:05 AM	5.65	66.61	6.19
11:06 AM	5.73	67.14	6.34
11:07 AM	5.79	68.33	6.45
11:08 AM	5.79	67.23	6.34
11:09 AM	5.76	67.45	6.35
11:10 AM	5.78	67.77	6.17
11:11 AM	5.68	67.23	6.30
11:12 AM	5.82	66.14	6.14
11:13 AM	5.70	67.99	6.28
11:14 AM	5.74	67.19	6.24
11:15 AM	5.79	66.08	6.21
11:16 AM	5.71	66.98	6.19
11:17 AM	5.75	65.98	6.27
11:18 AM	5.72	66.60	6.41
11:19 AM	5.67	65.83	6.45
11:20 AM	5.71	68.59	6.14
Average	5.74	67.20	6.29

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 4, 2025
 Start time: 11:21 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 430-H1
 Finish time : 11:41 AM
 Serial No.: 161212-14
 Serial No.: 435
 Serial No.: 058
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:21 AM	5.72	67.78	6.41
11:22 AM	5.67	65.50	6.30
11:23 AM	5.69	67.36	6.43
11:24 AM	5.87	65.72	6.47
11:25 AM	5.65	68.20	6.34
11:26 AM	5.69	66.12	6.42
11:27 AM	5.84	66.54	6.41
11:28 AM	5.71	66.66	6.29
11:29 AM	5.73	67.74	6.38
11:30 AM	5.72	65.67	6.38
11:31 AM	5.75	66.56	6.27
11:32 AM	5.72	66.45	6.36
11:33 AM	5.68	67.39	6.49
11:34 AM	5.72	65.52	6.43
11:35 AM	5.70	66.41	6.34
11:36 AM	5.80	67.84	6.50
11:37 AM	5.79	67.01	6.41
11:38 AM	5.82	67.20	6.30
11:39 AM	5.73	66.55	6.35
11:40 AM	5.74	65.50	6.40
11:41 AM	5.73	66.79	6.31
Average	5.74	66.69	6.38

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 4, 2025
 Start time: 11:42 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 430-H1
 Finish time : 12:02 PM
 Serial No.: 161212-14
 Serial No.: 435
 Serial No.: 058
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:42 AM	5.70	65.89	6.41
11:43 AM	5.71	65.86	6.37
11:44 AM	5.74	67.85	6.39
11:45 AM	5.68	67.06	6.30
11:46 AM	5.68	65.84	6.12
11:47 AM	5.70	67.96	6.28
11:48 AM	5.70	65.69	6.24
11:49 AM	5.67	67.83	6.34
11:50 AM	5.76	67.39	6.41
11:51 AM	5.77	64.40	6.37
11:52 AM	5.69	67.55	6.23
11:53 AM	5.67	65.34	6.28
11:54 AM	5.78	66.54	6.43
11:55 AM	5.77	65.41	6.37
11:56 AM	5.76	66.05	6.30
11:57 AM	5.78	65.43	6.25
11:58 AM	5.76	66.28	6.36
11:59 AM	5.74	67.33	6.13
12:00 PM	5.79	65.55	5.93
12:01 PM	5.64	67.37	6.17
12:02 PM	5.63	66.98	6.04
Average	5.72	66.46	6.27

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/430-H1
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 04/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 430-H1 OPERATOR : Mr. Song Hengchwankul
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 45.00 m Gas Velocity : 7.1 m/s
Diameter : 1.44 m Flow rate^{1/} : 336 Ncu.m/min
Temperature : 269.7 °C Excess Oxygen : 5.7 %
Moisture : 11.2 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		5.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	6.26	5.74	0.09	60*/14.93**	0.25**	US. EPA Method 6C
Oxide of Nitrogen	ppm	66.81	61.27	0.70	200*/93.89**	1.13**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-0-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-0-0006

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment,
B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/430-H1
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 04/03/2025
RECEIVED DATE : 07/03/2025 ANALYTICAL DATE : 15/03/2025
REPORT DATE : 15/03/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 430-H1 OPERATOR : Mr. Rommadon Lemmad
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 45.00 m Gas Velocity : 7.1 m/s
Diameter : 1.44 m Flow rate^{1/} : 336 Ncu.m/min
Temperature : 269.7 °C Excess Oxygen : 5.7 %
Moisture : 11.2 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		5.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	1.77	1.62	0.018	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
380-H1/H2
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 5, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	3.78	3.78	37.22	37.22	30.22
2	3.67	3.67	36.79	36.79	29.68
3	3.66	3.65	36.73	36.73	29.60
Average	3.70	3.70	36.91	36.91	29.83

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	3.78	3.78	5.37	5.35	4.34
2	3.67	3.67	6.44	6.42	5.18
3	3.66	3.65	6.80	6.78	5.46
Average	3.70	3.70	6.20	6.18	5.00

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 5, 2025
Start time: 10:30 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: TELEDYNE 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : 380-H1/H2
Finish time : 10:50 AM
Serial No.: 161212-14
Serial No.: 433
Serial No.: 118
Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
10:30 AM	3.84	37.17	3.86
10:31 AM	3.87	36.91	4.27
10:32 AM	3.81	36.91	4.37
10:33 AM	3.78	36.85	4.59
10:34 AM	3.75	36.91	4.73
10:35 AM	3.75	37.13	5.05
10:36 AM	3.77	37.27	5.15
10:37 AM	3.79	37.19	5.40
10:38 AM	3.81	37.35	5.42
10:39 AM	3.79	37.29	5.42
10:40 AM	3.83	37.19	5.53
10:41 AM	3.82	37.58	5.72
10:42 AM	3.84	37.65	5.69
10:43 AM	3.77	37.44	5.80
10:44 AM	3.76	37.46	5.81
10:45 AM	3.75	37.45	5.93
10:46 AM	3.76	37.26	6.10
10:47 AM	3.71	37.18	6.04
10:48 AM	3.71	37.27	5.93
10:49 AM	3.72	37.20	6.10
10:50 AM	3.71	36.86	5.96
Average	3.78	37.22	5.37

Signature 
(Miss Katesarin Vorradetwittaya)
Environmental Scientist

PTT Global Chemical Public Company Limited

EMISSION TEST RESULT

Run # : 2
Date: March 5, 2025
Start time: 10:51 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: TELEDYNE 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : 380-H1/H2
Finish time : 11:11 AM
Serial No.: 161212-14
Serial No.: 433
Serial No.: 118
Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
10:51 AM	3.71	36.65	6.14
10:52 AM	3.74	36.71	6.21
10:53 AM	3.75	36.78	6.23
10:54 AM	3.70	36.97	6.26
10:55 AM	3.66	37.07	6.26
10:56 AM	3.57	37.03	6.36
10:57 AM	3.49	37.12	6.27
10:58 AM	3.55	36.97	6.37
10:59 AM	3.61	36.92	6.47
11:00 AM	3.59	36.96	6.43
11:01 AM	3.68	36.84	6.43
11:02 AM	3.71	36.65	6.47
11:03 AM	3.72	36.66	6.52
11:04 AM	3.74	36.99	6.53
11:05 AM	3.72	37.12	6.54
11:06 AM	3.75	37.20	6.56
11:07 AM	3.68	36.94	6.67
11:08 AM	3.69	36.31	6.67
11:09 AM	3.67	35.97	6.54
11:10 AM	3.60	36.16	6.62
11:11 AM	3.68	36.53	6.65
Average	3.67	36.79	6.44

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist

PTT Global Chemical Public Company Limited

EMISSION TEST RESULT

Run # : 3
Date: March 5, 2025
Start time: 11:12 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: TELEDYNE 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : 380-H1/H2
Finish time : 11:32 AM
Serial No.: 161212-14
Serial No.: 433
Serial No.: 118
Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:12 AM	3.71	36.60	6.59
11:13 AM	3.79	36.85	6.72
11:14 AM	3.80	37.21	6.79
11:15 AM	3.66	37.23	6.80
11:16 AM	3.65	37.09	6.73
11:17 AM	3.60	37.00	6.72
11:18 AM	3.58	36.85	6.81
11:19 AM	3.53	36.47	6.85
11:20 AM	3.52	36.10	6.80
11:21 AM	3.61	36.14	6.80
11:22 AM	3.64	36.19	6.80
11:23 AM	3.61	36.29	6.86
11:24 AM	3.69	36.39	6.92
11:25 AM	3.75	36.58	6.85
11:26 AM	3.74	36.92	6.96
11:27 AM	3.63	36.92	6.88
11:28 AM	3.69	36.85	6.71
11:29 AM	3.62	36.90	6.65
11:30 AM	3.70	37.04	6.82
11:31 AM	3.65	36.98	6.81
11:32 AM	3.71	36.74	6.94
Average	3.66	36.73	6.80

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/380-H1/H2
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 380-H1/H2 OPERATOR : Mr. Pisanu Seenampeng
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas
STACK DESCRIPTION

Height : 37.50 m Gas Velocity : 6.9 m/s
Diameter : 1.88 m Flow rate^{1/} : 508 Ncu.m/min
Temperature : 306.3 °C Excess Oxygen : 3.7 %
Moisture : 14.0 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE
		3.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	6.18	5.00	0.14	60*/11.61**	0.27**	US. EPA Method 6C
Oxide of Nitrogen	ppm	36.91	29.83	0.59	200*/59.25**	0.99**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-0-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-0-0006

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment,
B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/380-H1/H2
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 07/03/2025 ANALYTICAL DATE : 15/03/2025
REPORT DATE : 15/03/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 380-H1/H2 OPERATOR : Mr. Apiwat Meksuwan
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas
STACK DESCRIPTION

Height : 37.50 m Gas Velocity : 6.9 m/s
Diameter : 1.88 m Flow rate^{1/} : 508 Ncu.m/min
Temperature : 306.3 °C Excess Oxygen : 3.7 %
Moisture : 14.0 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE
		3.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	1.87	1.51	0.029	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
432-H1
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 5, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.64	4.63	55.67	55.68	47.57
2	4.51	4.50	56.35	56.36	47.77
3	4.48	4.47	56.27	56.28	47.61
Average	4.54	4.53	56.10	56.11	47.65

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.64	4.63	4.18	4.16	3.55
2	4.51	4.50	4.80	4.78	4.05
3	4.48	4.47	5.08	5.06	4.28
Average	4.54	4.53	4.69	4.67	3.96

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 5, 2025
Start time: 10:20 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : 432-H1
Finish time : 10:40 AM
Serial No.: 121121-10
Serial No.: 441
Serial No.: 060
Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
10:20 AM	4.72	54.66	3.40
10:21 AM	4.77	54.96	3.60
10:22 AM	4.70	55.11	3.70
10:23 AM	4.66	54.71	3.70
10:24 AM	4.63	55.30	3.80
10:25 AM	4.61	55.16	3.90
10:26 AM	4.61	55.49	4.10
10:27 AM	4.65	55.48	4.00
10:28 AM	4.68	55.68	4.20
10:29 AM	4.58	55.87	4.10
10:30 AM	4.63	55.64	4.30
10:31 AM	4.65	56.14	4.30
10:32 AM	4.65	55.93	4.40
10:33 AM	4.62	55.90	4.40
10:34 AM	4.62	55.73	4.50
10:35 AM	4.63	56.23	4.50
10:36 AM	4.67	56.33	4.50
10:37 AM	4.58	56.74	4.50
10:38 AM	4.58	56.08	4.60
10:39 AM	4.56	56.21	4.70
10:40 AM	4.56	55.82	4.60
Average	4.64	55.67	4.18

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 5, 2025
 Start time: 10:41 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 432-H1
 Finish time : 11:01 AM
 Serial No.: 121121-10
 Serial No.: 441
 Serial No.: 060
 Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
10:41 AM	4.51	55.59	4.60
10:42 AM	4.53	55.95	4.60
10:43 AM	4.58	56.66	4.60
10:44 AM	4.59	56.52	4.70
10:45 AM	4.58	56.49	4.70
10:46 AM	4.52	56.85	4.60
10:47 AM	4.47	56.94	4.70
10:48 AM	4.47	56.95	4.80
10:49 AM	4.57	56.36	4.80
10:50 AM	4.49	56.11	4.80
10:51 AM	4.49	56.23	4.80
10:52 AM	4.47	55.99	4.80
10:53 AM	4.54	56.15	4.90
10:54 AM	4.56	56.67	4.90
10:55 AM	4.52	56.46	4.90
10:56 AM	4.57	56.42	4.90
10:57 AM	4.46	56.74	4.90
10:58 AM	4.46	56.11	5.00
10:59 AM	4.44	56.10	4.90
11:00 AM	4.41	55.97	4.90
11:01 AM	4.42	55.99	5.00
Average	4.51	56.35	4.80

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 5, 2025
 Start time: 11:02 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 432-H1
 Finish time : 11:22 AM
 Serial No.: 121121-10
 Serial No.: 441
 Serial No.: 060
 Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:02 AM	4.42	55.83	5.00
11:03 AM	4.53	56.11	5.00
11:04 AM	4.57	56.36	5.00
11:05 AM	4.46	56.25	5.10
11:06 AM	4.48	56.65	5.10
11:07 AM	4.47	56.49	5.10
11:08 AM	4.51	56.53	5.10
11:09 AM	4.46	56.62	5.10
11:10 AM	4.40	56.25	5.00
11:11 AM	4.49	56.24	5.10
11:12 AM	4.45	56.24	5.10
11:13 AM	4.48	56.02	5.00
11:14 AM	4.48	55.83	5.20
11:15 AM	4.51	55.99	5.10
11:16 AM	4.58	56.09	5.10
11:17 AM	4.44	56.01	5.00
11:18 AM	4.53	56.44	5.10
11:19 AM	4.45	56.57	5.10
11:20 AM	4.51	56.49	5.10
11:21 AM	4.46	56.14	5.10
11:22 AM	4.50	56.48	5.20
Average	4.48	56.27	5.08

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/432-H1
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 432-H1 OPERATOR : Mr. Pisanu Seenampeng
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 40.84 m Gas Velocity : 6.9 m/s
Diameter : 2.03 m Flow rate^{1/} : 652 Ncu.m/min
Temperature : 255.5 °C Excess Oxygen : 4.5 %
Moisture : 12.8 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		4.5%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	4.67	3.96	0.13	60*/11.33**	0.31**	US. EPA Method 6C
Oxide of Nitrogen	ppm	56.11	47.65	1.15	200*/88.50**	1.74**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-ก-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-ก-0006

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/432-H1
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 07/03/2025 ANALYTICAL DATE : 15/03/2025
REPORT DATE : 15/03/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 432-H1 OPERATOR : Mr. Apiwat Meksuwan
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 40.84 m Gas Velocity : 6.9 m/s
Diameter : 2.03 m Flow rate^{1/} : 652 Ncu.m/min
Temperature : 255.5 °C Excess Oxygen : 4.5 %
Moisture : 12.8 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		4.5%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	6.40	5.44	0.125	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
432-H2
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 4, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.20	4.08	24.62	24.95	20.62
2	4.01	3.93	24.52	24.40	19.99
3	3.89	3.99	24.54	24.61	20.23
Average	4.03	4.00	24.56	24.65	20.28

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.20	4.08	3.98	3.81	3.15
2	4.01	3.93	3.83	4.16	3.41
3	3.89	3.99	4.47	4.56	3.75
Average	4.03	4.00	4.09	4.18	3.44

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 4, 2025
Start time: 2:20 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: TELEDYNE 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : 432-H2
Finish time : 2:40 PM
Serial No.: 161212-14
Serial No.: 433
Serial No.: 118
Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:20 PM	4.80	22.93	3.60
2:21 PM	4.47	23.06	3.05
2:22 PM	4.35	23.15	3.59
2:23 PM	4.25	23.56	3.90
2:24 PM	4.21	23.75	4.07
2:25 PM	4.23	24.10	4.17
2:26 PM	4.17	24.48	4.03
2:27 PM	4.20	24.52	4.06
2:28 PM	4.13	25.03	4.30
2:29 PM	4.12	25.47	4.40
2:30 PM	4.12	25.15	4.46
2:31 PM	4.12	24.73	4.55
2:32 PM	4.15	24.85	4.66
2:33 PM	4.13	25.20	4.71
2:34 PM	4.11	25.38	4.83
2:35 PM	4.11	25.37	4.92
2:36 PM	4.12	25.48	3.01
2:37 PM	4.16	25.60	3.19
2:38 PM	4.09	25.45	3.25
2:39 PM	4.08	24.96	3.39
2:40 PM	3.99	24.81	3.40
Average	4.20	24.62	3.98


Signature 
(Miss Katesarin Vorradetwittaya)
Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2
 Date: March 4, 2025
 Start time: 2:41 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: TELEDYNE 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas
 Location : 432-H2
 Finish time : 3:01 PM
 Serial No.: 161212-14
 Serial No.: 433
 Serial No.: 118
 Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:41 PM	3.97	24.86	3.44
2:42 PM	4.00	24.93	3.51
2:43 PM	4.05	25.14	3.47
2:44 PM	4.03	25.19	3.62
2:45 PM	4.09	25.01	3.52
2:46 PM	4.11	24.62	3.59
2:47 PM	4.04	24.34	3.61
2:48 PM	3.96	24.48	3.77
2:49 PM	3.98	24.39	3.75
2:50 PM	3.97	24.13	3.81
2:51 PM	3.95	24.21	3.88
2:52 PM	3.95	24.14	3.90
2:53 PM	3.90	23.90	3.87
2:54 PM	3.96	24.16	3.95
2:55 PM	3.95	24.28	4.03
2:56 PM	4.00	24.07	4.03
2:57 PM	4.09	24.20	4.03
2:58 PM	4.05	24.46	4.07
2:59 PM	4.06	24.82	4.17
3:00 PM	4.01	24.95	4.27
3:01 PM	3.99	24.74	4.14
Average	4.01	24.52	3.83

Signature



(Miss Katesarin Vorradetwittaya)

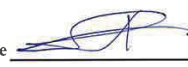
Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3
 Date: March 4, 2025
 Start time: 3:02 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: TELEDYNE 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas
 Location : 432-H2
 Finish time : 3:22 PM
 Serial No.: 161212-14
 Serial No.: 433
 Serial No.: 118
 Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
3:02 PM	4.00	24.81	4.13
3:03 PM	3.95	25.15	4.18
3:04 PM	3.92	25.11	4.17
3:05 PM	3.84	24.67	4.30
3:06 PM	3.80	24.18	4.42
3:07 PM	3.75	24.08	4.37
3:08 PM	3.76	24.22	4.41
3:09 PM	3.77	24.12	4.49
3:10 PM	3.71	24.06	4.41
3:11 PM	3.74	24.19	4.54
3:12 PM	3.76	24.34	4.52
3:13 PM	3.72	24.36	4.53
3:14 PM	3.79	24.11	4.59
3:15 PM	3.83	23.92	4.52
3:16 PM	3.87	24.10	4.56
3:17 PM	3.89	24.63	4.55
3:18 PM	4.07	25.03	4.48
3:19 PM	4.11	25.37	4.57
3:20 PM	4.12	25.46	4.60
3:21 PM	4.13	24.86	4.70
3:22 PM	4.13	24.59	4.76
Average	3.89	24.54	4.47

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. **REFERENCE NO.** : 225096MON1H-Stk/432-H2
Branch 4 (Aromatics 1 Plant)

SAMPLING BY : SECOT Co., Ltd. **SAMPLING DATE** : 04/03/2025

RECEIVED DATE : 13/03/2025 **ANALYTICAL DATE** : 14/03/2025-03/04/2025

REPORT DATE : 04/04/2025 **SAMPLE CONDITION** : Normal

STACK LOCATION : 432-H2 **OPERATOR** : Mr. Pisanu Seenampeng

SOURCE DESCRIPTION : Combustion **FUEL TYPE** : Fuel gas

STACK DESCRIPTION

Height :	32.06	m	Gas Velocity :	6.3	m/s
Diameter :	1.28	m	Flow rate^{1/} :	223	Ncu.m/min
Temperature :	283.3	°C	Excess Oxygen :	4.0	%
Moisture :	14.5	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		4.0%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	4.18	3.44	0.04	60*/11.56**	0.08**	US. EPA Method 6C
Oxide of Nitrogen	ppm	24.65	20.28	0.17	200*/84.46**	0.42**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. ๖-239-๓-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. ๖-239-๓-0006

Remark : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. **REFERENCE NO.** : 225096MON1H-Stk/432-H2
Branch 4 (Aromatics 1 Plant)

SAMPLING BY : SECOT Co., Ltd. **SAMPLING DATE** : 04/03/2025

RECEIVED DATE : 07/03/2025 **ANALYTICAL DATE** : 15/03/2025

REPORT DATE : 15/03/2025 **SAMPLE CONDITION** : Normal

STACK LOCATION : 432-H2 **OPERATOR** : Mr. Kittipong Thakoengsuk

SOURCE DESCRIPTION : Combustion **FUEL TYPE** : Fuel gas

STACK DESCRIPTION

Height :	32.06	m	Gas Velocity :	6.3	m/s
Diameter :	1.28	m	Flow rate^{1/} :	223	Ncu.m/min
Temperature :	283.3	°C	Excess Oxygen :	4.0	%
Moisture :	14.5	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		4.0%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	1.39	1.15	0.009	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpet)

Technical Management Team

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

**The Monitoring Result of Emission Concentration
432-H3**

PTT Global Chemical Public Co., Ltd.

(Branch 4 : Aromatics 1 Plant)

March 4, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	7.60	7.62	57.00	57.01	59.67
2	7.65	7.69	57.70	57.72	60.73
3	7.62	7.67	58.84	58.86	61.84
Average	7.62	7.66	57.85	57.86	60.75

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	7.60	7.62	3.42	3.39	3.55
2	7.65	7.69	3.82	3.79	3.99
3	7.62	7.67	3.93	3.90	4.10
Average	7.62	7.66	3.72	3.69	3.88

**PTT Global Chemical Public Company Limited
EMISSION TEST RESULT**

Date: March 4, 2025
 Start time: 11:00 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 1
 Location : 432-H3
 Finish time : 11:20 AM
 Serial No.: 121121-10
 Serial No.: 441
 Serial No.: 060
 Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:00 AM	7.51	57.06	3.10
11:01 AM	7.51	56.92	3.00
11:02 AM	7.54	56.96	3.20
11:03 AM	7.59	57.06	3.20
11:04 AM	7.58	56.96	3.20
11:05 AM	7.62	57.09	3.20
11:06 AM	7.64	56.92	3.40
11:07 AM	7.60	56.99	3.30
11:08 AM	7.58	57.03	3.30
11:09 AM	7.54	56.93	3.40
11:10 AM	7.56	56.93	3.50
11:11 AM	7.56	57.06	3.50
11:12 AM	7.61	56.96	3.50
11:13 AM	7.59	56.93	3.50
11:14 AM	7.59	56.86	3.50
11:15 AM	7.64	56.99	3.60
11:16 AM	7.67	57.09	3.70
11:17 AM	7.65	57.09	3.60
11:18 AM	7.64	57.13	3.70
11:19 AM	7.68	57.01	3.70
11:20 AM	7.67	57.00	3.70
Average	7.60	57.00	3.42

Signature _____

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 4, 2025
Start time: 11:21 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Location : 432-H3
Finish time : 11:41 AM
Serial No.: 121121-10
Serial No.: 441
Serial No.: 060
Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:21 AM	7.67	56.94	3.70
11:22 AM	7.60	57.06	3.70
11:23 AM	7.68	57.29	3.80
11:24 AM	7.67	57.92	3.80
11:25 AM	7.64	58.03	3.80
11:26 AM	7.63	57.65	3.80
11:27 AM	7.63	57.64	3.80
11:28 AM	7.64	57.55	3.80
11:29 AM	7.63	57.42	3.80
11:30 AM	7.66	57.28	3.80
11:31 AM	7.64	57.45	3.90
11:32 AM	7.61	57.40	3.90
11:33 AM	7.65	57.77	3.80
11:34 AM	7.69	58.01	3.80
11:35 AM	7.67	58.12	3.90
11:36 AM	7.63	57.96	3.90
11:37 AM	7.67	58.14	3.90
11:38 AM	7.65	58.36	3.90
11:39 AM	7.65	58.18	3.80
11:40 AM	7.69	57.70	3.80
11:41 AM	7.69	57.84	3.80
Average	7.65	57.70	3.82

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 4, 2025
Start time: 11:42 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Location : 432-H3
Finish time : 12:02 PM
Serial No.: 121121-10
Serial No.: 441
Serial No.: 060
Test Operator : Pisanu S.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:42 AM	7.68	58.47	3.90
11:43 AM	7.67	58.68	3.90
11:44 AM	7.68	58.72	4.00
11:45 AM	7.67	58.89	3.90
11:46 AM	7.65	58.68	4.00
11:47 AM	7.58	58.39	3.90
11:48 AM	7.65	58.60	3.90
11:49 AM	7.65	58.59	3.90
11:50 AM	7.68	58.32	3.90
11:51 AM	7.66	58.79	3.90
11:52 AM	7.62	59.02	3.90
11:53 AM	7.59	58.89	3.90
11:54 AM	7.57	58.35	3.90
11:55 AM	7.59	58.33	3.90
11:56 AM	7.60	58.60	3.90
11:57 AM	7.57	58.87	4.00
11:58 AM	7.57	59.21	3.90
11:59 AM	7.58	59.56	4.00
12:00 PM	7.58	59.80	4.00
12:01 PM	7.56	59.55	3.90
12:02 PM	7.66	59.35	4.00
Average	7.62	58.84	3.93

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/432-H3
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 04/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 432-H3 OPERATOR : Mr. Pisanu Seenampeng
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 46.05 m Gas Velocity : 8.6 m/s
Diameter : 2.66 m Flow rate^{1/} : 1,608 Ncu.m/min
Temperature : 189.6 °C Excess Oxygen : 7.7 %
Moisture : 13.0 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		7.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	3.69	3.88	0.26	60*/12.88**	0.61**	US. EPA Method 6C
Oxide of Nitrogen	ppm	57.86	60.75	2.92	200*/94.63**	3.22**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-0-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-0-0006

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment,
B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/432-H3
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 04/03/2025
RECEIVED DATE : 07/03/2025 ANALYTICAL DATE : 15/03/2025
REPORT DATE : 15/03/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 432-H3 OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 46.05 m Gas Velocity : 8.6 m/s
Diameter : 2.66 m Flow rate^{1/} : 1,608 Ncu.m/min
Temperature : 189.6 °C Excess Oxygen : 7.7 %
Moisture : 13.0 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		7.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	4.17	4.37	0.201	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
320-H1/H2
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 4, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	3.40	3.31	43.18	43.18	34.12
2	3.42	3.34	43.12	43.12	34.13
3	3.33	3.26	42.92	42.93	33.83
Average	3.38	3.30	43.07	43.08	34.03

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	3.40	3.31	6.15	6.13	4.84
2	3.42	3.34	6.25	6.23	4.93
3	3.33	3.26	6.22	6.20	4.89
Average	3.38	3.30	6.21	6.19	4.89

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 4, 2025
Start time: 11:00 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: Teledyne 100 EH
Fuel Type : Natural Gas
Location : 320-H1/H2
Finish time : 11:20 AM
Serial No.: 071023-47
Serial No.: 435
Serial No.: 186
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:00 AM	3.37	43.15	6.27
11:01 AM	3.37	43.17	6.33
11:02 AM	3.36	43.22	6.16
11:03 AM	3.42	43.30	6.42
11:04 AM	3.41	43.56	6.26
11:05 AM	3.42	43.81	6.19
11:06 AM	3.41	43.81	6.23
11:07 AM	3.46	43.54	6.21
11:08 AM	3.44	43.33	6.24
11:09 AM	3.39	43.19	6.16
11:10 AM	3.36	42.99	6.07
11:11 AM	3.40	42.85	6.05
11:12 AM	3.34	42.83	5.99
11:13 AM	3.36	42.60	5.95
11:14 AM	3.38	42.65	6.04
11:15 AM	3.46	42.90	5.99
11:16 AM	3.47	43.01	6.04
11:17 AM	3.41	43.19	6.11
11:18 AM	3.43	43.34	6.16
11:19 AM	3.37	43.29	6.21
11:20 AM	3.34	43.08	6.15
Average	3.40	43.18	6.15

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 4, 2025
Start time: 11:21 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: Teledyne 100 EH
Fuel Type : Natural Gas

Location : 320-H1/H2
Finish time : 11:41 AM
Serial No.: 071023-47
Serial No.: 435
Serial No.: 186
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:21 AM	3.35	43.05	6.13
11:22 AM	3.43	43.39	6.22
11:23 AM	3.40	43.60	6.29
11:24 AM	3.32	43.42	6.25
11:25 AM	3.40	43.21	6.17
11:26 AM	3.48	43.19	6.18
11:27 AM	3.47	43.21	6.17
11:28 AM	3.43	43.19	6.23
11:29 AM	3.46	43.15	6.31
11:30 AM	3.41	43.07	6.35
11:31 AM	3.40	42.83	6.24
11:32 AM	3.52	42.89	6.25
11:33 AM	3.52	43.11	6.30
11:34 AM	3.48	43.11	6.30
11:35 AM	3.43	43.21	6.29
11:36 AM	3.44	43.37	6.27
11:37 AM	3.43	43.26	6.28
11:38 AM	3.33	42.98	6.23
11:39 AM	3.37	42.79	6.22
11:40 AM	3.40	42.69	6.21
11:41 AM	3.40	42.76	6.29
Average	3.42	43.12	6.25

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 4, 2025
Start time: 11:42 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: Teledyne 100 EH
Fuel Type : Natural Gas

Location : 320-H1/H2
Finish time : 12:02 PM
Serial No.: 071023-47
Serial No.: 435
Serial No.: 186
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:42 AM	3.43	42.89	6.32
11:43 AM	3.44	43.05	6.38
11:44 AM	3.37	42.93	6.23
11:45 AM	3.28	42.71	6.28
11:46 AM	3.27	42.72	6.21
11:47 AM	3.29	42.57	6.15
11:48 AM	3.31	42.52	6.15
11:49 AM	3.36	42.90	6.20
11:50 AM	3.36	43.06	6.26
11:51 AM	3.37	43.01	6.22
11:52 AM	3.29	42.96	6.21
11:53 AM	3.25	42.75	6.22
11:54 AM	3.29	42.62	6.14
11:55 AM	3.28	42.70	6.18
11:56 AM	3.31	42.91	6.20
11:57 AM	3.28	43.18	6.22
11:58 AM	3.34	43.42	6.22
11:59 AM	3.34	43.31	6.25
12:00 PM	3.33	43.08	6.25
12:01 PM	3.34	43.05	6.23
12:02 PM	3.45	43.02	6.17
Average	3.33	42.92	6.22

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096MON1H-Stk/320-H1/H2
	Branch 4 (Aromatics 1 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 04/03/2025
RECEIVED DATE	: 13/03/2025	ANALYTICAL DATE	: 14/03/2025-03/04/2025
REPORT DATE	: 04/04/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: 320-H1/H2	OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 36.28	m	Gas Velocity	: 8.8	m/s
Diameter	: 1.74	m	Flow rate ^{1/}	: 549	Ncu.m/min
Temperature	: 325.2	°C	Excess Oxygen	: 3.3	%
Moisture	: 11.6	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		3.3%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	6.19	4.89	0.15	60*/12.39**	0.28**	US. EPA Method 6C
Oxide of Nitrogen	ppm	43.08	34.03	0.74	200*/66.49**	1.08**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. ๖-239-๓-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. ๖-239-๓-0006

Remark : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096MON1H-Stk/320-H1/H2
	Branch 4 (Aromatics 1 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 04/03/2025
RECEIVED DATE	: 07/03/2025	ANALYTICAL DATE	: 15/03/2025
REPORT DATE	: 15/03/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: 320-H1/H2	OPERATOR	: Mr. Rommadon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 36.28	m	Gas Velocity	: 8.8	m/s
Diameter	: 1.74	m	Flow rate ^{1/}	: 549	Ncu.m/min
Temperature	: 325.2	°C	Excess Oxygen	: 3.3	%
Moisture	: 11.6	%			

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		3.3%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	4.70	3.71	0.078	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

**The Monitoring Result of Emission Concentration
390-H1**

PTT Global Chemical Public Co., Ltd.

(Branch 4 : Aromatics 1 Plant)

March 5, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	6.31	6.26	26.94	26.92	25.56
2	6.24	6.20	27.81	27.79	26.28
3	6.23	6.20	27.70	27.68	26.17
Average	6.26	6.22	27.48	27.46	26.00

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	6.31	6.26	3.58	3.53	3.35
2	6.24	6.20	3.59	3.55	3.36
3	6.23	6.20	3.52	3.49	3.30
Average	6.26	6.22	3.56	3.52	3.34

**PTT Global Chemical Public Company Limited
EMISSION TEST RESULT**

Date: March 5, 2025
 Start time: 2:00 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 1
 Location : 390-H1
 Finish time : 2:20 PM
 Serial No.: 161212-13
 Serial No.: 314
 Serial No.: 058
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:00 PM	6.43	27.98	3.37
2:01 PM	6.31	27.88	3.59
2:02 PM	6.15	27.88	3.79
2:03 PM	6.28	27.20	3.21
2:04 PM	6.21	26.54	3.69
2:05 PM	6.39	26.28	3.72
2:06 PM	6.36	26.69	3.69
2:07 PM	6.44	26.87	3.63
2:08 PM	6.35	27.09	3.61
2:09 PM	6.35	26.66	3.58
2:10 PM	6.33	25.98	3.55
2:11 PM	6.33	25.70	3.58
2:12 PM	6.32	25.11	3.61
2:13 PM	6.35	25.36	3.60
2:14 PM	6.31	26.33	3.56
2:15 PM	6.24	27.49	3.55
2:16 PM	6.26	27.56	3.58
2:17 PM	6.30	27.69	3.61
2:18 PM	6.21	27.95	3.61
2:19 PM	6.24	27.87	3.56
2:20 PM	6.27	27.60	3.56
Average	6.31	26.94	3.58

Signature 

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 5, 2025
 Start time: 2:21 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 390-H1
 Finish time : 2:41 PM
 Serial No.: 161212-13
 Serial No.: 314
 Serial No.: 058
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:21 PM	6.23	27.41	3.56
2:22 PM	6.26	27.56	3.61
2:23 PM	6.33	27.83	3.66
2:24 PM	6.25	27.82	3.70
2:25 PM	6.18	28.01	3.76
2:26 PM	6.28	28.07	3.79
2:27 PM	6.26	28.23	3.79
2:28 PM	6.20	28.20	3.74
2:29 PM	6.25	27.98	3.66
2:30 PM	6.25	28.05	3.59
2:31 PM	6.19	28.04	3.57
2:32 PM	6.25	27.97	3.56
2:33 PM	6.30	27.44	3.54
2:34 PM	6.22	27.24	3.45
2:35 PM	6.23	27.42	3.44
2:36 PM	6.25	27.71	3.41
2:37 PM	6.21	27.90	3.47
2:38 PM	6.24	27.80	3.50
2:39 PM	6.26	28.00	3.52
2:40 PM	6.21	27.55	3.56
2:41 PM	6.22	27.84	3.56
Average	6.24	27.81	3.59

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 5, 2025
 Start time: 2:42 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 390-H1
 Finish time : 3:02 PM
 Serial No.: 161212-13
 Serial No.: 314
 Serial No.: 058
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:42 PM	6.27	27.89	3.51
2:43 PM	6.24	27.78	3.50
2:44 PM	6.24	27.49	3.56
2:45 PM	6.33	27.56	3.57
2:46 PM	6.26	27.88	3.58
2:47 PM	6.22	28.15	3.56
2:48 PM	6.24	28.18	3.54
2:49 PM	6.25	28.18	3.50
2:50 PM	6.20	27.92	3.50
2:51 PM	6.22	27.70	3.55
2:52 PM	6.24	27.47	3.55
2:53 PM	6.19	27.20	3.53
2:54 PM	6.16	27.77	3.55
2:55 PM	6.24	27.57	3.50
2:56 PM	6.21	27.44	3.46
2:57 PM	6.17	27.21	3.50
2:58 PM	6.24	27.01	3.47
2:59 PM	6.22	27.90	3.49
3:00 PM	6.19	27.76	3.51
3:01 PM	6.19	27.86	3.46
3:02 PM	6.25	27.69	3.43
Average	6.23	27.70	3.52

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/390-H1
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 390-H1 OPERATOR : Mr. Song Hengchwankul
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 34.80 m Gas Velocity : 3.2 m/s
Diameter : 0.89 m Flow rate^{1/} : 66 Ncu.m/min
Temperature : 205.2 °C Excess Oxygen : 6.2 %
Moisture : 10.8 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		6.2%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	3.52	3.34	0.01	60*/11.50**	0.03**	US. EPA Method 6C
Oxide of Nitrogen	ppm	27.46	26.00	0.06	200*/79.99**	0.15**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 2-239-อ-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 2-239-ท-0006

Remark : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment, B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/390-H1
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 07/03/2025 ANALYTICAL DATE : 15/03/2025
REPORT DATE : 15/03/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 390-H1 OPERATOR : Mr. Rommadon Lemmad
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 34.80 m Gas Velocity : 3.2 m/s
Diameter : 0.89 m Flow rate^{1/} : 66 Ncu.m/min
Temperature : 205.2 °C Excess Oxygen : 6.2 %
Moisture : 10.8 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		6.2%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	3.83	3.63	0.008	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
390-H2
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 5, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.40	5.38	38.80	38.80	34.75
2	5.44	5.41	38.73	38.73	34.75
3	5.36	5.32	39.09	39.09	34.87
Average	5.40	5.37	38.87	38.87	34.79

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.40	5.38	3.32	3.28	2.94
2	5.44	5.41	3.31	3.27	2.93
3	5.36	5.32	3.29	3.25	2.90
Average	5.40	5.37	3.31	3.27	2.92

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Date: March 5, 2025
 Start time: 2:00 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: Teledyne 100 EH
 Fuel Type : Natural Gas

Run # : 1
 Location : 390-H2
 Finish time : 2:20 PM
 Serial No.: 071023-47
 Serial No.: 435
 Serial No.: 186
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:00 PM	5.52	38.62	3.32
2:01 PM	5.61	38.41	3.19
2:02 PM	5.56	38.87	3.23
2:03 PM	5.34	39.30	3.27
2:04 PM	5.30	39.44	3.28
2:05 PM	5.29	39.47	3.42
2:06 PM	5.29	39.29	3.31
2:07 PM	5.46	39.07	3.32
2:08 PM	5.57	39.06	3.33
2:09 PM	5.36	39.34	3.27
2:10 PM	5.27	38.74	3.42
2:11 PM	5.39	38.62	3.28
2:12 PM	5.41	39.13	3.29
2:13 PM	5.44	38.75	3.41
2:14 PM	5.37	38.56	3.29
2:15 PM	5.25	39.26	3.36
2:16 PM	5.39	38.23	3.33
2:17 PM	5.42	37.74	3.27
2:18 PM	5.44	38.32	3.43
2:19 PM	5.40	38.17	3.21
2:20 PM	5.35	38.31	3.47
Average	5.40	38.80	3.32

Signature 

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 5, 2025
Start time: 2:21 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: Teledyne 100 EH
Fuel Type : Natural Gas

Location : 390-H2
Finish time : 2:41 PM
Serial No.: 071023-47
Serial No.: 435
Serial No.: 186
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:21 PM	5.39	38.07	3.59
2:22 PM	5.60	37.77	3.41
2:23 PM	5.55	37.79	2.86
2:24 PM	5.62	37.99	2.86
2:25 PM	5.38	38.41	3.12
2:26 PM	5.34	38.46	3.45
2:27 PM	5.15	38.46	2.95
2:28 PM	5.27	38.62	3.21
2:29 PM	5.41	38.57	3.37
2:30 PM	5.42	38.75	3.57
2:31 PM	5.41	39.03	3.63
2:32 PM	5.50	39.23	3.50
2:33 PM	5.41	39.44	3.41
2:34 PM	5.31	39.35	3.41
2:35 PM	5.62	39.10	3.42
2:36 PM	5.63	39.12	3.34
2:37 PM	5.63	39.33	3.36
2:38 PM	5.31	39.07	3.43
2:39 PM	5.44	38.72	3.40
2:40 PM	5.51	38.90	3.11
2:41 PM	5.42	39.10	3.16
Average	5.44	38.73	3.31

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 5, 2025
Start time: 2:42 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: Teledyne 100 EH
Fuel Type : Natural Gas

Location : 390-H2
Finish time : 3:02 PM
Serial No.: 071023-47
Serial No.: 435
Serial No.: 186
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:42 PM	5.28	38.79	3.17
2:43 PM	5.55	38.50	3.04
2:44 PM	5.40	38.63	3.14
2:45 PM	5.31	38.96	3.17
2:46 PM	5.32	39.12	3.24
2:47 PM	5.44	38.97	3.22
2:48 PM	5.33	38.86	3.20
2:49 PM	5.35	39.08	3.20
2:50 PM	5.34	39.29	3.22
2:51 PM	5.54	39.07	3.24
2:52 PM	5.71	38.84	3.29
2:53 PM	5.63	38.90	3.43
2:54 PM	5.59	39.37	3.44
2:55 PM	5.12	39.70	3.46
2:56 PM	5.09	39.60	3.32
2:57 PM	5.19	39.63	3.33
2:58 PM	5.02	39.72	3.41
2:59 PM	5.14	39.29	3.46
3:00 PM	5.32	38.70	3.40
3:01 PM	5.50	38.86	3.39
3:02 PM	5.30	38.99	3.39
Average	5.36	39.09	3.29

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/390-H2
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 390-H2 OPERATOR : Mr. Song Hengchwankul
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 30.00 m Gas Velocity : 5.5 m/s
Diameter : 0.94 m Flow rate^{1/} : 120 Ncu.m/min
Temperature : 235.0 °C Excess Oxygen : 5.4 %
Moisture : 11.0 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		5.4%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	3.27	2.92	0.02	60*/12.26**	0.06**	US. EPA Method 6C
Oxide of Nitrogen	ppm	38.87	34.79	0.15	200*/59.71**	0.21**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. ๖-239-๖-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. ๖-239-๖-0006

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment,
B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/390-H2
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 05/03/2025
RECEIVED DATE : 07/03/2025 ANALYTICAL DATE : 15/03/2025
REPORT DATE : 15/03/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 390-H2 OPERATOR : Mr. Rommadon Lemmad
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 30.00 m Gas Velocity : 5.5 m/s
Diameter : 0.94 m Flow rate^{1/} : 120 Ncu.m/min
Temperature : 235.0 °C Excess Oxygen : 5.4 %
Moisture : 11.0 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		5.4%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	2.03	1.81	0.007	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

The Monitoring Result of Emission Concentration
940-H1
PTT Global Chemical Public Co., Ltd.
(Branch 4 : Aromatics 1 Plant)
March 4, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.98	4.91	95.57	95.67	83.17
2	4.90	4.85	95.79	95.88	83.04
3	4.87	4.83	95.31	95.40	82.52
Average	4.91	4.86	95.56	95.65	82.91

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.98	4.91	6.45	6.42	5.58
2	4.90	4.85	5.96	5.93	5.14
3	4.87	4.83	5.57	5.54	4.79
Average	4.91	4.86	5.99	5.96	5.17

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 1
Date: March 4, 2025
Location : 940-H1
Start time: 2:10 PM
Finish time : 2:30 PM
O₂ instrument Model: AMI 70
Serial No.: 121121-10
NO_x instrument Model: API 200 AH
Serial No.: 342
SO₂ instrument Model: API 100 AH
Serial No.: 132
Fuel Type : Natural Gas
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:10 PM	5.11	96.31	6.76
2:11 PM	5.16	94.48	6.77
2:12 PM	5.03	95.33	6.88
2:13 PM	4.98	96.68	6.89
2:14 PM	4.90	97.29	6.40
2:15 PM	4.81	95.64	6.43
2:16 PM	4.76	94.38	6.43
2:17 PM	4.80	95.84	6.42
2:18 PM	4.85	94.10	6.37
2:19 PM	4.86	94.89	6.37
2:20 PM	4.90	95.54	6.35
2:21 PM	5.08	94.61	6.35
2:22 PM	5.14	96.11	6.37
2:23 PM	5.00	95.63	6.34
2:24 PM	4.92	93.47	6.34
2:25 PM	5.05	95.96	6.34
2:26 PM	5.10	96.27	6.31
2:27 PM	5.14	96.95	6.31
2:28 PM	5.03	96.21	6.34
2:29 PM	4.99	96.39	6.35
2:30 PM	4.89	94.99	6.33
Average	4.98	95.57	6.45

Signature 
(Miss Katesarin Vorradetwittaya)
Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 2

Date: March 4, 2025
 Start time: 2:31 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 940-H1
 Finish time : 2:51 PM
 Serial No.: 121121-10
 Serial No.: 342
 Serial No.: 132
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:31 PM	4.83	95.85	6.31
2:32 PM	4.85	97.94	6.29
2:33 PM	4.85	97.82	6.26
2:34 PM	4.84	95.19	6.18
2:35 PM	4.84	93.88	6.19
2:36 PM	4.99	96.01	6.19
2:37 PM	4.89	94.59	6.13
2:38 PM	4.85	96.90	6.14
2:39 PM	4.92	95.38	6.02
2:40 PM	4.95	96.08	5.94
2:41 PM	5.01	95.19	5.91
2:42 PM	4.97	95.09	5.96
2:43 PM	4.93	95.30	5.99
2:44 PM	4.87	95.58	5.85
2:45 PM	4.83	96.33	5.70
2:46 PM	4.95	95.46	5.68
2:47 PM	5.01	95.40	5.69
2:48 PM	4.91	94.85	5.69
2:49 PM	4.89	96.79	5.72
2:50 PM	4.86	96.45	5.67
2:51 PM	4.84	95.61	5.69
Average	4.90	95.79	5.96

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

PTT Global Chemical Public Company Limited
EMISSION TEST RESULT

Run # : 3

Date: March 4, 2025
 Start time: 2:52 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : 940-H1
 Finish time : 3:12 PM
 Serial No.: 121121-10
 Serial No.: 342
 Serial No.: 132
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:52 PM	4.71	95.03	5.64
2:53 PM	4.72	94.09	5.67
2:54 PM	4.76	94.59	5.62
2:55 PM	4.86	93.64	5.59
2:56 PM	4.89	93.60	5.53
2:57 PM	4.98	94.43	5.53
2:58 PM	4.95	95.39	5.50
2:59 PM	4.84	96.17	5.53
3:00 PM	4.88	95.73	5.55
3:01 PM	4.91	95.61	5.56
3:02 PM	4.96	95.63	5.51
3:03 PM	5.01	94.45	5.53
3:04 PM	4.95	96.46	5.56
3:05 PM	4.87	96.54	5.55
3:06 PM	4.79	95.75	5.60
3:07 PM	4.80	95.19	5.55
3:08 PM	4.82	96.18	5.53
3:09 PM	4.86	95.73	5.61
3:10 PM	4.84	95.41	5.59
3:11 PM	4.87	95.62	5.57
3:12 PM	4.92	96.18	5.62
Average	4.87	95.31	5.57

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/940-H1 (Boiler)
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 04/03/2025
RECEIVED DATE : 13/03/2025 ANALYTICAL DATE : 14/03/2025-03/04/2025
REPORT DATE : 04/04/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 940-H1 (Boiler) OPERATOR : Mr. Song Hengchwankul
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 30.00 m Gas Velocity : 6.7 m/s
Diameter : 1.35 m Flow rate^{1/} : 336 Ncu.m/min
Temperature : 185.7 °C Excess Oxygen : 4.9 %
Moisture : 10.3 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		4.9%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Sulfur Dioxide	ppm	5.96	5.17	0.09	60*/10.39**	0.15**	US. EPA Method 6C
Oxide of Nitrogen	ppm	95.65	82.91	1.01	200*/102.19**	1.06**	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

REG. NO. 3-239-บ-0006

(Miss Preeda Somjai)

Technical Management Team

REG. NO. 3-239-ก-0006

Remarks : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. * Notification of Ministry of Industry, B.E.2549 (2006) and Notification of Ministry of Natural Resource and Environment,
B.E.2549 (2006) (at 7 % O₂).

5. ** The assigned value in EIA report.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 225096MON1H-Stk/940-H1 (Boiler)
Branch 4 (Aromatics 1 Plant)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 04/03/2025
RECEIVED DATE : 07/03/2025 ANALYTICAL DATE : 15/03/2025
REPORT DATE : 15/03/2025 SAMPLE CONDITION : Normal
STACK LOCATION : 940-H1 (Boiler) OPERATOR : Mr. Rommadon Lemmad
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 30.00 m Gas Velocity : 6.7 m/s
Diameter : 1.35 m Flow rate^{1/} : 336 Ncu.m/min
Temperature : 185.7 °C Excess Oxygen : 4.9 %
Moisture : 10.3 %

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE METHOD
		4.9%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Total Volatile Organic Compounds	ppm	1.32	1.15	0.013	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remarks : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

ภาคผนวก ง.2

ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ



Meteorological Monitoring Results : Wind Rose MTR-PTTGC4

Location : Gate of PTTGC Branch 4 Aromatics I Plant

Monitor period : 03-10 Mar 2025

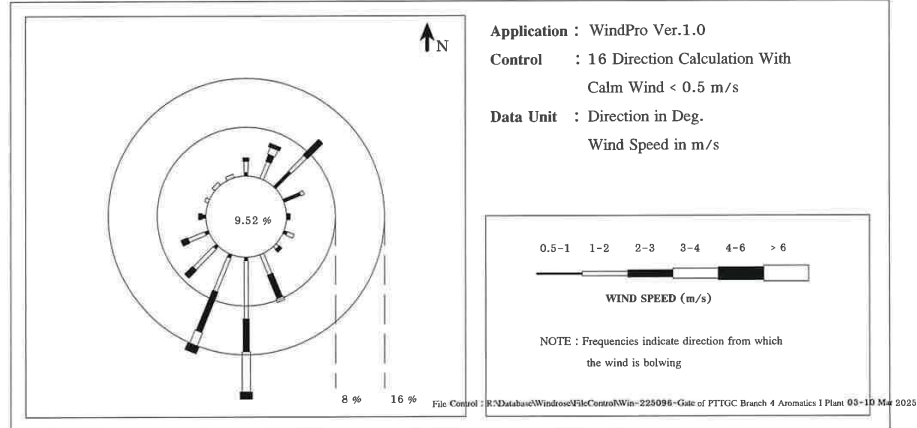
Wind Speed Model : Novalynx WS-25

Serial No : A5092

Wind Direction Model : Novalynx WS-25

Serial No : A5092

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0060	0.0179	0.0060	0.0000	0.0000	0.0000	0.0298
NNE	0.0000	0.0298	0.0119	0.0119	0.0060	0.0000	0.0595
NE	0.0357	0.0357	0.0357	0.0000	0.0000	0.0000	0.1071
ENE	0.0298	0.0060	0.0000	0.0000	0.0000	0.0000	0.0357
E	0.0000	0.0000	0.0060	0.0000	0.0000	0.0000	0.0060
ESE	0.0060	0.0119	0.0000	0.0000	0.0000	0.0000	0.0179
SE	0.0000	0.0060	0.0060	0.0000	0.0000	0.0000	0.0119
SSE	0.0000	0.0357	0.0417	0.0060	0.0000	0.0000	0.0833
S	0.0060	0.0952	0.0536	0.0655	0.0119	0.0000	0.2321
SSW	0.0060	0.0595	0.0714	0.0238	0.0119	0.0000	0.1726
SW	0.0060	0.0476	0.0179	0.0000	0.0000	0.0000	0.0714
WSW	0.0060	0.0298	0.0119	0.0000	0.0000	0.0000	0.0476
W	0.0060	0.0000	0.0060	0.0000	0.0000	0.0000	0.0119
WNW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NW	0.0000	0.0000	0.0000	0.0060	0.0000	0.0000	0.0060
NNW	0.0000	0.0000	0.0000	0.0060	0.0000	0.0000	0.0060
CALM	0.0952						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-PTTGC4

Location : Gate of PTTGC Branch 4 Aromatics I Plant

Monitor period : 03-10 Mar 2025

Wind Speed Model : Novalynx WS-25

Serial No : A5092

Wind Direction Model : Novalynx WS-25

Serial No : A5092

Time	03-04 Mar 2025		04-05 Mar 2025		05-06 Mar 2025		06-07 Mar 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	3.6	SSW	1.7	S	1.1	SW	2.7	SSE
10:00 - 11:00	2.2	WSW	2.8	SSW	3.4	S	2.2	SSW
11:00 - 12:00	2.1	SSE	3.6	SSW	1.9	S	3.0	S
12:00 - 13:00	3.7	S	1.6	S	3.5	SSW	2.1	S
13:00 - 14:00	4.1	S	2.9	S	1.9	SSW	2.3	SW
14:00 - 15:00	4.2	S	2.2	S	3.0	S	1.4	WSW
15:00 - 16:00	3.7	S	1.5	SSW	1.2	WSW	3.4	S
16:00 - 17:00	1.7	WSW	2.2	SSW	2.0	SSW	1.2	WSW
17:00 - 18:00	2.6	S	1.9	SSW	2.1	S	1.8	SSW
18:00 - 19:00	2.3	SSW	1.3	SW	1.2	SSW	2.5	SSE
19:00 - 20:00	3.7	SSW	2.4	SW	1.8	S	2.1	SSE
20:00 - 21:00	2.4	SSW	0.6	SW	1.6	SSW	1.1	S
21:00 - 22:00	1.3	SW	3.8	S	1.5	SSE	1.3	SSE
22:00 - 23:00	1.5	SSW	1.9	SW	2.1	S	2.6	SSE
23:00 - 24:00	1.6	SSW	2.9	S	0.3	ENE	2.0	SSW
00:00 - 01:00	2.5	SSE	2.6	SSW	4.5	SSW	0.0	SSW
01:00 - 02:00	1.3	WSW	1.2	SW	1.8	S	0.6	S
02:00 - 03:00	1.0	S	1.7	SSE	1.5	S	0.0	ESE
03:00 - 04:00	2.0	SSW	1.8	S	2.1	SSE	1.5	SSE
04:00 - 05:00	1.4	S	4.1	SSW	0.4	SSE	1.2	S
05:00 - 06:00	1.0	SW	1.8	S	1.5	ESE	0.3	S
06:00 - 07:00	1.4	SW	1.6	S	1.2	SSE	1.4	S
07:00 - 08:00	0.7	SSW	1.8	S	3.6	S	1.3	SSW
08:00 - 09:00	2.6	S	1.9	SSW	3.3	S	2.5	S



File Control : R:\Database\Windrose\FileControl\Win-225096-Gate of PTTGC Branch 4 Aromatics I Plant 03-10 Mar 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

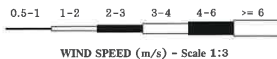
Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-PTTGC4

Location : Gate of PTTGC Branch 4 Aromatics I Plant	Monitor period : 03-10 Mar 2025
Wind Speed Model : Novalynx WS-25	Serial No : A5092
Wind Direction Model : Novalynx WS-25	Serial No : A5092

Time	07-08 Mar 2025		08-09 Mar 2025		09-10 Mar 2025		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
09:00 - 10:00	2.9	SSW	2.0	NNE	1.1	N	
10:00 - 11:00	3.2	S	1.0	NE	3.4	S	
11:00 - 12:00	3.7	SSE	2.0	E	1.3	SE	
12:00 - 13:00	1.6	S	1.0	NE	2.8	SE	
13:00 - 14:00	2.4	WSW	2.2	SSW	1.6	SW	
14:00 - 15:00	1.2	SSE	2.9	SSW	1.3	ESE	
15:00 - 16:00	1.5	NNE	2.9	W	2.0	SW	
16:00 - 17:00	0.8	ENE	0.9	NE	0.9	WSW	
17:00 - 18:00	2.1	NE	2.3	NE	1.1	WNW	
18:00 - 19:00	3.2	NNE	1.2	ENE	0.9	W	
19:00 - 20:00	0.3	E	3.0	NNW	0.2	W	
20:00 - 21:00	1.9	NNE	0.6	N	0.5	ENE	
21:00 - 22:00	1.0	NE	2.6	NE	0.2	NE	
22:00 - 23:00	1.5	N	2.1	NNE	0.6	ENE	
23:00 - 24:00	0.6	ENE	1.6	NE	0.2	ENE	
00:00 - 01:00	0.8	NE	1.6	N	0.9	ESE	
01:00 - 02:00	0.0	NE	1.9	NE	0.5	ENE	
02:00 - 03:00	0.6	NE	2.4	N	0.2	ENE	
03:00 - 04:00	0.0	NE	1.0	NNE	0.2	E	
04:00 - 05:00	0.3	NE	2.1	NE	0.2	ENE	
05:00 - 06:00	0.8	NE	4.2	NNE	0.4	N	
06:00 - 07:00	1.5	NNE	3.7	NNE	0.8	NE	
07:00 - 08:00	0.5	NE	2.4	NE	1.4	NNE	
08:00 - 09:00	2.5	NE	1.6	NE	3.0	NW	
Wind Rose							



File Control : R:\Database\Windrose\FileControl\Win-225096-Gate of PTTGC Branch 4 Aromatics I Plant 03-10 Mar 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-PTTGC4

Location : Gate of PTTGC Branch 4 Aromatics I Plant	Monitor Period : 03-10 Mar 2025
Analyzer Model : API 200A	Station No : SCT-16
Serial No : 2384	Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E	Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326	
Certified Date : 08 Jan 2025	Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2026	

Time	NO2 Concentration (ppb)						
	03-04 Mar 2025	04-05 Mar 2025	05-06 Mar 2025	06-07 Mar 2025	07-08 Mar 2025	08-09 Mar 2025	09-10 Mar 2025
09:00 - 10:00	10.2	12.2	14.1	3.8	8.7	8.2	9.4
10:00 - 11:00	10.9	9.2	6.0	7.4	13.3	10.9	11.5
11:00 - 12:00	10.4	7.0	4.7	8.6	7.6	5.0	12.4
12:00 - 13:00	15.8	6.6	6.9	9.7	13.1	7.5	14.0
13:00 - 14:00	10.5	8.7	5.9	7.6	14.4	5.8	10.2
14:00 - 15:00	15.4	6.9	7.4	5.3	8.2	1.9	9.5
15:00 - 16:00	12.7	8.5	7.2	6.7	15.3	6.6	13.9
16:00 - 17:00	10.0	12.3	11.7	2.9	14.5	9.9	9.3
17:00 - 18:00	13.6	11.6	10.4	6.5	13.0	8.7	12.5
18:00 - 19:00	13.5	11.1	10.2	13.3	15.2	9.2	15.6
19:00 - 20:00	13.5	9.1	7.9	7.3	13.4	10.2	19.8
20:00 - 21:00	14.6	16.9	10.5	12.0	15.4	6.6	18.4
21:00 - 22:00	18.3	9.9	10.7	12.4	10.8	11.5	6.0
22:00 - 23:00	13.3	5.7	4.6	9.1	13.2	2.6	22.4
23:00 - 00:00	9.4	5.4	3.5	4.5	5.7	4.8	19.9
00:00 - 01:00	10.7	9.2	10.1	5.1	8.8	8.3	10.6
01:00 - 02:00	8.5	8.1	4.1	4.8	6.4	8.0	1.5
02:00 - 03:00	7.0	4.3	10.0	12.2	8.2	7.3	12.6
03:00 - 04:00	8.2	4.4	13.6	7.4	7.5	3.5	12.1
04:00 - 05:00	9.5	5.3	9.5	9.4	5.9	1.9	8.8
05:00 - 06:00	5.9	6.6	13.6	9.9	9.8	4.9	10.9
06:00 - 07:00	10.9	13.7	9.4	13.2	7.4	5.7	17.6
07:00 - 08:00	14.7	17.9	10.3	17.8	7.2	5.1	15.8
08:00 - 09:00	12.7	11.4	8.9	8.8	11.3	10.2	8.0
Average-24Hr*	11.7	9.2	8.8	8.6	10.6	6.8	12.6
Max-1Hr	18.3	17.9	14.1	17.8	15.4	11.5	22.4
Min-1Hr	5.9	4.3	3.5	2.9	5.7	1.9	1.5
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-PTTGC4

Location : Chaklukya Community Monitor Period : 03-10 Mar 2025
Analyzer Model : API 200A Station No : SCT-18
Serial No : 1523 Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 08 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2026

Time	NO2 Concentration (ppb)						
	03-04 Mar 2025	04-05 Mar 2025	05-06 Mar 2025	06-07 Mar 2025	07-08 Mar 2025	08-09 Mar 2025	09-10 Mar 2025
09:00 - 10:00	16.1	11.9	11.4	12.9	10.8	8.4	6.8
10:00 - 11:00	7.2	6.3	9.5	10.5	7.0	8.8	5.6
11:00 - 12:00	3.3	4.3	7.5	6.6	10.5	10.0	1.2
12:00 - 13:00	6.1	4.0	7.6	1.8	9.3	9.8	2.6
13:00 - 14:00	3.3	4.6	6.4	4.9	8.4	4.2	1.2
14:00 - 15:00	5.2	5.7	10.3	7.5	13.7	2.7	1.1
15:00 - 16:00	9.9	7.9	11.6	13.5	16.2	2.4	3.1
16:00 - 17:00	7.0	6.8	20.6	11.6	17.9	5.8	6.2
17:00 - 18:00	8.3	11.0	14.0	14.6	19.3	8.9	7.2
18:00 - 19:00	6.9	11.5	20.4	19.1	10.7	11.0	14.5
19:00 - 20:00	5.4	10.9	16.5	13.8	13.4	14.3	16.2
20:00 - 21:00	6.4	6.2	9.5	12.6	12.4	14.2	19.3
21:00 - 22:00	3.8	6.1	14.8	11.2	14.4	8.9	13.9
22:00 - 23:00	3.7	10.6	11.3	10.8	13.1	9.5	5.0
23:00 - 00:00	5.7	8.4	13.9	14.2	11.1	8.5	1.3
00:00 - 01:00	4.4	8.9	2.2	5.6	12.2	5.1	0.9
01:00 - 02:00	9.1	7.4	4.1	12.4	10.5	7.5	2.6
02:00 - 03:00	4.2	10.5	2.4	15.6	11.1	9.9	1.1
03:00 - 04:00	4.5	11.1	10.1	12.0	11.8	5.4	1.9
04:00 - 05:00	10.0	2.6	12.1	15.1	13.3	9.0	5.1
05:00 - 06:00	14.8	15.3	13.0	13.3	13.0	13.1	6.5
06:00 - 07:00	13.3	16.2	12.1	13.4	10.8	11.2	11.5
07:00 - 08:00	17.4	16.1	20.8	20.3	11.0	13.2	15.0
08:00 - 09:00	13.4	12.1	12.0	14.0	14.2	10.9	12.0
Average-24Hr*	7.9	9.0	11.4	12.0	12.3	8.9	6.7
Max-1Hr	17.4	16.2	20.8	20.3	19.3	14.3	19.3
Min-1Hr	3.3	2.6	2.2	1.8	7.0	2.4	0.9
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-PTTGC4

Location : Gate of PTTGC Branch 4 Aromatics I Plant Monitor Period : 03-10 Mar 2025
Analyzer Model : API 100A Station No : SCT-16
Serial No : 342 Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 10 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 09 Jan 2026

Time	SO2 Concentration (ppb)						
	03-04 Mar 2025	04-05 Mar 2025	05-06 Mar 2025	06-07 Mar 2025	07-08 Mar 2025	08-09 Mar 2025	09-10 Mar 2025
09:00 - 10:00	2.7	2.5	3.7	3.8	13.8	4.7	4.6
10:00 - 11:00	2.3	3.9	6.0	3.2	18.2	4.6	5.3
11:00 - 12:00	5.3	3.9	3.2	16.2	23.1	3.5	4.1
12:00 - 13:00	5.6	2.7	6.2	19.5	13.7	4.7	6.4
13:00 - 14:00	3.3	2.4	8.9	7.6	4.3	3.1	6.1
14:00 - 15:00	4.6	5.8	6.2	10.6	4.6	2.6	6.6
15:00 - 16:00	3.2	10.5	11.2	10.2	4.6	5.7	3.4
16:00 - 17:00	4.0	4.8	10.2	10.7	3.2	5.4	5.7
17:00 - 18:00	4.9	6.7	6.8	15.2	6.3	3.2	4.1
18:00 - 19:00	5.5	6.5	11.1	10.4	6.3	2.8	5.1
19:00 - 20:00	2.9	2.2	7.9	10.5	2.7	6.3	3.9
20:00 - 21:00	4.6	7.1	3.3	11.2	2.7	5.3	5.7
21:00 - 22:00	2.4	8.2	4.8	7.2	6.0	2.5	4.5
22:00 - 23:00	5.7	5.4	7.0	8.5	3.8	5.2	6.5
23:00 - 00:00	2.8	5.5	5.0	7.5	3.2	3.1	5.2
00:00 - 01:00	5.5	2.8	3.6	7.5	4.1	6.4	5.6
01:00 - 02:00	2.9	6.9	8.6	9.7	3.7	3.4	5.0
02:00 - 03:00	3.1	10.2	9.4	9.8	5.0	4.6	3.2
03:00 - 04:00	5.4	6.2	8.0	8.1	10.4	3.4	5.0
04:00 - 05:00	4.5	2.7	6.4	6.3	8.7	4.6	2.7
05:00 - 06:00	5.6	5.0	10.4	5.1	7.5	6.4	5.8
06:00 - 07:00	4.9	6.2	10.1	9.2	4.9	5.7	4.9
07:00 - 08:00	6.0	5.0	8.4	7.0	7.7	6.0	5.3
08:00 - 09:00	3.1	2.8	8.3	7.0	2.5	6.2	3.4
Average-24Hr*	4.2	5.2	7.3	9.3	7.1	4.6	4.9
Max-1Hr	6.0	10.5	11.2	19.5	23.1	6.4	6.6
Min-1Hr	2.3	2.2	3.2	3.2	2.5	2.5	2.7
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-PTTGC4

Location : Chaklukya Community Monitor Period : 03-10 Mar 2025
Analyzer Model : Teledyne T100 Station No : SCT-18
Serial No : 119 Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 10 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 09 Jan 2026

Time	SO2 Concentration (ppb)						
	03-04 Mar 2025	04-05 Mar 2025	05-06 Mar 2025	06-07 Mar 2025	07-08 Mar 2025	08-09 Mar 2025	09-10 Mar 2025
09:00 ~ 10:00	6.6	5.7	3.2	4.2	14.3	8.6	7.3
10:00 ~ 11:00	5.8	4.7	5.5	4.9	17.4	6.1	6.0
11:00 ~ 12:00	3.5	4.1	6.7	16.6	25.7	2.4	4.9
12:00 ~ 13:00	3.4	6.5	3.2	20.3	13.1	7.0	7.2
13:00 ~ 14:00	3.5	9.0	12.9	12.6	1.8	3.4	8.2
14:00 ~ 15:00	6.1	6.6	6.6	11.3	6.1	6.4	3.8
15:00 ~ 16:00	8.4	8.6	11.4	12.1	7.7	6.2	5.4
16:00 ~ 17:00	4.0	3.8	10.7	11.5	2.5	6.2	6.8
17:00 ~ 18:00	5.1	9.4	9.5	22.0	4.8	6.7	6.6
18:00 ~ 19:00	5.1	9.9	5.6	10.6	5.9	2.1	5.9
19:00 ~ 20:00	7.5	6.3	9.2	8.4	7.0	3.4	7.4
20:00 ~ 21:00	6.6	11.1	5.9	7.8	3.1	5.7	8.6
21:00 ~ 22:00	7.2	8.3	7.1	9.9	5.2	7.9	4.7
22:00 ~ 23:00	3.6	4.0	12.6	11.1	6.2	5.5	3.3
23:00 ~ 00:00	7.5	7.3	5.5	13.6	6.2	5.7	5.2
00:00 ~ 01:00	4.7	6.5	7.6	10.2	10.2	7.0	4.4
01:00 ~ 02:00	3.8	5.1	7.9	11.5	9.0	4.4	7.6
02:00 ~ 03:00	4.4	10.7	11.6	11.3	8.2	6.5	4.8
03:00 ~ 04:00	2.5	3.4	10.5	9.4	12.4	4.7	5.0
04:00 ~ 05:00	2.5	5.4	9.6	5.0	12.6	7.6	4.2
05:00 ~ 06:00	2.3	1.2	9.7	9.4	10.0	5.3	7.3
06:00 ~ 07:00	6.4	5.0	9.2	9.5	5.7	6.9	3.8
07:00 ~ 08:00	6.9	1.5	11.4	13.6	5.3	5.3	4.2
08:00 ~ 09:00	3.9	8.8	7.9	10.4	2.9	1.8	9.3
Average-24Hr*	5.1	6.4	8.4	11.1	8.5	5.5	5.9
Max-1Hr	8.4	11.1	12.9	22.0	25.7	8.6	9.3
Min-1Hr	2.3	1.2	3.2	4.2	1.8	1.8	3.3
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



บริษัท ซีคอต จำกัด SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0042/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 15/01/2025
SAMPLING DATE : 07-08/01/2025 SAMPLE CONDITION : Normal
SAMPLING TIME : 09:55-09:55 FILE CODE : 225096_TO-15_January
RECEIVED DATE : 09/01/2025
REPORT DATE : 17/01/2025

Compound	Non Detection		SAMPLING LOCATION		STANDARD (µg/m ³)
			Branch 4 : North		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	2.38	7.60	-
Cyclohexane	0.02	0.07	13.74	47.32	-
Toluene	0.02	0.08	3.89	14.65	-
m,p-xylene	0.04	0.17	1.69	7.34	-
o-xylene	0.02	0.09	0.39	1.69	-
Total xylene	0.06	0.26	2.08	9.03	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd - EPA Methods TO-15,1999

Siriwan Chimsa-nga
(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparuk
(Mrs. Araya Tipparuk)

Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.
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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd. (Branch 4 : Aromatics 1 Plant)	REQUEST SERVICE No.	: 0042/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 07-08/01/2025	ANALYTICAL DATE	: 15/01/2025
SAMPLING TIME	: 10:20-10:20	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 09/01/2025	FILE CODE	: 225096_TO-15_January
REPORT DATE	: 17/01/2025		

Compound	Non Detection		SAMPLING LOCATION Branch 4 : South		STANDARD ($\mu\text{g}/\text{m}^3$)
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	1.64	5.24	-
Cyclohexane	0.02	0.07	0.84	2.89	-
Toluene	0.02	0.08	3.02	11.38	-
m,p-xylene	0.04	0.17	1.57	6.82	-
o-xylene	0.02	0.09	0.25	1.09	-
Total xylene	0.06	0.26	1.82	7.91	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd. (Branch 4 : Aromatics 1 Plant)	REQUEST SERVICE No.	: 0042/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 07-08/01/2025	ANALYTICAL DATE	: 15/01/2025
SAMPLING TIME	: 11:10-11:10	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 09/01/2025	FILE CODE	: 225096_TO-15_January
REPORT DATE	: 17/01/2025		

Compound	Non Detection		SAMPLING LOCATION Branch 8 : North		STANDARD ($\mu\text{g}/\text{m}^3$)
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	3.00	9.58	-
Cyclohexane	0.02	0.07	7.58	26.10	-
Toluene	0.02	0.08	3.50	13.18	-
m,p-xylene	0.04	0.17	1.67	7.25	-
o-xylene	0.02	0.09	0.41	1.78	-
Total xylene	0.06	0.26	2.08	9.03	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0042/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 15/01/2025
SAMPLING DATE	: 07-08/01/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 11:05-11:05	FILE CODE	: 225096_TO-15_January
RECEIVED DATE	: 09/01/2025		
REPORT DATE	: 17/01/2025		

Compound	Non Detection		SAMPLING LOCATION		STANDARD (µg/m ³)
			Branch 8 : South		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	3.82	12.20	-
Cyclohexane	0.02	0.07	11.30	38.91	-
Toluene	0.02	0.08	3.80	14.31	-
m,p-xylene	0.04	0.17	4.55	19.76	-
o-xylene	0.02	0.09	0.58	2.52	-
Total xylene	0.06	0.26	5.13	22.28	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999


(Miss Siriwan Chimsa-nga)

Analyst


(Mrs. Araya Tipparak)

Technical Management Team

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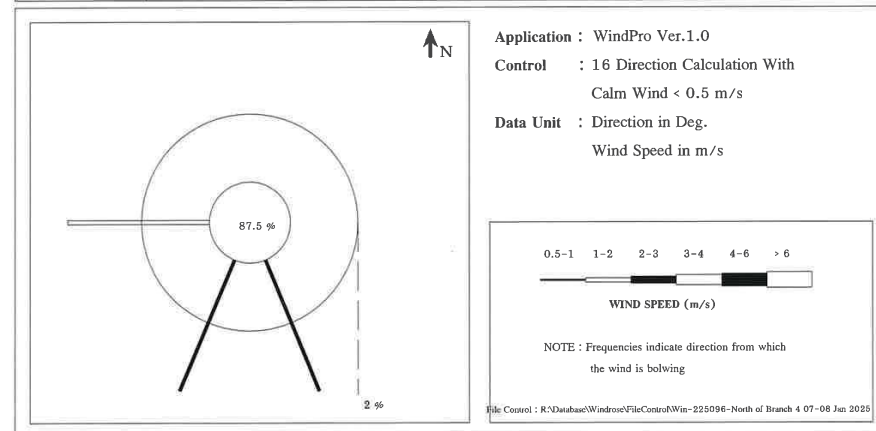
R:\Database\Windrose\FileControl\Win-225096-North of Branch 4 07-08 Jan 2025




Meteorological Monitoring Results : Wind Rose
MTR-PTTGC 4

Location	: North of Branch 4	Monitor period	: 07-08 Jan 2025
Wind Speed Model	: Novalynx WS-25	Serial No	: A5091
Wind Direction Model	: Novalynx WS-25	Serial No	: A5091

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSW	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0000	0.0417	0.0000	0.0000	0.0000	0.0000	0.0417
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.8750						




(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-PTTGC 4

Location : North of Branch 4 Monitor period : 07-08 Jan 2025
Wind Speed Model : Novalynx WS-25 Serial No : A5091
Wind Direction Model : Novalynx WS-25 Serial No : A5091

Time	07-08 Jan 2025	
	WS(m/s)	WD
09:00 - 10:00	0.0	NE
10:00 - 11:00	0.7	SSE
11:00 - 12:00	0.0	S
12:00 - 13:00	1.3	W
13:00 - 14:00	0.0	NNW
14:00 - 15:00	0.3	SSW
15:00 - 16:00	0.5	SSW
16:00 - 17:00	0.0	SSW
17:00 - 18:00	0.0	NW
18:00 - 19:00	0.4	NW
19:00 - 20:00	0.2	N
20:00 - 21:00	0.4	NW
21:00 - 22:00	0.0	SW
22:00 - 23:00	0.0	SSW
23:00 - 24:00	0.0	SSW
00:00 - 01:00	0.0	SSW
01:00 - 02:00	0.0	E
02:00 - 03:00	0.0	E
03:00 - 04:00	0.0	NE
04:00 - 05:00	0.0	E
05:00 - 06:00	0.0	E
06:00 - 07:00	0.0	E
07:00 - 08:00	0.2	WSW
08:00 - 09:00	0.3	SSW

Wind Rose



0.5-1 1-2 2-3 3-4 4-6 >= 6

WIND SPEED (m/s) - Scale 1:3

File Control : R:\Database\Windrose\FileControl\Win-225096-North of Branch 4 07-08 Jan 2025

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0191/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 11-12/02/2025
SAMPLING DATE : 04-05/02/2025 SAMPLE CONDITION : Normal
SAMPLING TIME : 10:51-10:00 FILE CODE : 225096_TO-15_February
RECEIVED DATE : 06/02/2025
REPORT DATE : 13/02/2025

Compound	SAMPLING LOCATION				STANDARD (µg/m ³)
	Non Detection		Branch 4 : North		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	0.67	2.14	-
Cyclohexane	0.02	0.07	7.13	24.55	-
Toluene	0.02	0.08	1.30	4.90	-
m,p-xylene	0.04	0.17	0.53	2.30	-
o-xylene	0.02	0.09	0.10	0.43	-
Total xylene	0.06	0.26	0.63	2.73	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 3rd : EPA Methods TO-15,1999

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tippiaruk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0191/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 11-12/02/2025
SAMPLING DATE	: 04-05/02/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 10:33-09:33	FILE CODE	: 225096_TO-15_February
RECEIVED DATE	: 06/02/2025		
REPORT DATE	: 13/02/2025		

Compound	SAMPLING LOCATION				STANDARD ($\mu\text{g}/\text{m}^3$)
	Non Detection		Branch 4 : South		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	0.41	1.31	-
Cyclohexane	0.02	0.07	0.30	1.03	-
Toluene	0.02	0.08	0.86	3.24	-
m,p-xylene	0.04	0.17	0.57	2.48	-
o-xylene	0.02	0.09	0.10	0.43	-
Total xylene	0.06	0.26	0.67	2.91	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparuk)

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0191/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 11-12/02/2025
SAMPLING DATE	: 04-05/02/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 11:12-10:25	FILE CODE	: 225096_TO-15_February
RECEIVED DATE	: 06/02/2025		
REPORT DATE	: 13/02/2025		

Compound	Non Detection		SAMPLING LOCATION		STANDARD ($\mu\text{g}/\text{m}^3$)
			Branch 8 : North		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	4.67	14.92	-
Cyclohexane	0.02	0.07	8.83	30.41	-
Toluene	0.02	0.08	2.53	9.53	-
m,p-xylene	0.04	0.17	0.59	2.56	-
o-xylene	0.02	0.09	0.21	0.91	-
Total xylene	0.06	0.26	0.80	3.47	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0191/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 11-12/02/2025
SAMPLING DATE	: 04-05/02/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 11:22-10:32	FILE CODE	: 225096_TO-15_February
RECEIVED DATE	: 06/02/2025		
REPORT DATE	: 13/02/2025		

Compound	SAMPLING LOCATION				STANDARD ($\mu\text{g}/\text{m}^3$)
	Non Detection		Branch 8 : South		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	0.93	2.97	-
Cyclohexane	0.02	0.07	4.49	15.46	-
Toluene	0.02	0.08	1.38	5.20	-
m,p-xylene	0.04	0.17	0.22	0.96	-
o-xylene	0.02	0.09	0.06	0.26	-
Total xylene	0.06	0.26	0.28	1.22	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

Siriwan Chimsa-nga

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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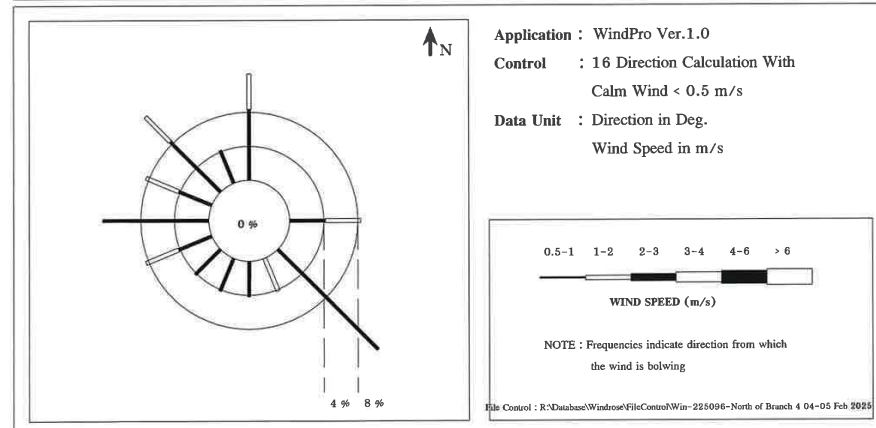


Meteorological Monitoring Results : Wind Rose

MTR-PTTGC 4

Location	: North of Branch 4	Monitor period	: 04-05 Feb 2025
Wind Speed Model	: Campbell CR510	Serial No	: 10851
Wind Direction Model	: Campbell CR510	Serial No	: 10851

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0833	0.0417	0.0000	0.0000	0.0000	0.0000	0.1250
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0417	0.0417	0.0000	0.0000	0.0000	0.0000	0.0833
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.1667	0.0000	0.0000	0.0000	0.0000	0.0000	0.1667
SSE	0.0000	0.0417	0.0000	0.0000	0.0000	0.0000	0.0417
S	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
SSW	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
SW	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
WSW	0.0417	0.0417	0.0000	0.0000	0.0000	0.0000	0.0833
W	0.1250	0.0000	0.0000	0.0000	0.0000	0.0000	0.1250
WNW	0.0417	0.0417	0.0000	0.0000	0.0000	0.0000	0.0833
NW	0.0833	0.0417	0.0000	0.0000	0.0000	0.0000	0.1250
NNW	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
CALM	0.0000						



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Preeda S.

(Miss Preeda Somjai)
Technical Management Team



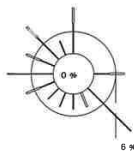
Meteorological Monitoring Results : Wind Rose

MTR-PTTGC 4

Location : North of Branch 4 Monitor period : 04-05 Feb 2025
 Wind Speed Model : Campbell CR510 Serial No : 10851
 Wind Direction Model : Campbell CR510 Serial No : 10851

Time	04-05 Feb 2025	
	WS(m/s)	WD
10:00 - 11:00	1.2	N
11:00 - 12:00	0.7	WNW
12:00 - 13:00	1.9	WSW
13:00 - 14:00	1.8	SSE
14:00 - 15:00	0.6	SE
15:00 - 16:00	0.6	SE
16:00 - 17:00	0.5	SE
17:00 - 18:00	0.7	SE
18:00 - 19:00	0.7	S
19:00 - 20:00	0.8	WSW
20:00 - 21:00	0.5	SSW
21:00 - 22:00	0.5	W
22:00 - 23:00	0.6	SW
23:00 - 24:00	1.0	WNW
00:00 - 01:00	0.5	NW
01:00 - 02:00	0.6	NW
02:00 - 03:00	0.6	W
03:00 - 04:00	0.7	N
04:00 - 05:00	0.5	NNW
05:00 - 06:00	0.7	N
06:00 - 07:00	1.9	E
07:00 - 08:00	0.6	E
08:00 - 09:00	1.5	NW
09:00 - 10:00	0.7	W

Wind Rose



0.5-1 1-2 2-3 3-4 4-6 >= 6
 WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-225096-North of Branch 4 04-05 Feb 2025

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0463/68
 (Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
 SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 20/03/2025
 SAMPLING DATE : 11-12/03/2025 SAMPLE CONDITION : Normal
 RECEIVED DATE : 13/03/2025 FILE CODE : 225096_TO-15_March
 REPORT DATE : 20/03/2025

Compound	Non Detection		SAMPLING LOCATION		STANDARD (µg/m ³)
			Branch 4 : North		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	0.67	2.14	-
Cyclohexane	0.02	0.07	6.05	20.83	-
Toluene	0.02	0.08	14.15	53.30	-
m,p-xylene	0.04	0.17	0.29	1.26	-
o-xylene	0.02	0.09	0.06	0.26	-
Total xylene	0.06	0.26	0.35	1.52	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15.1999

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparak)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0463/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 20/03/2025
SAMPLING DATE	: 11-12/03/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 13:50-13:56	FILE CODE	: 225096_TO-15_March
RECEIVED DATE	: 13/03/2025		
REPORT DATE	: 20/03/2025		

Compound	Non Detection		SAMPLING LOCATION		STANDARD (µg/m ³)
			Branch 4 : South		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	0.17	0.54	-
Cyclohexane	0.02	0.07	0.09	0.31	-
Toluene	0.02	0.08	0.54	2.03	-
m,p-xylene	0.04	0.17	0.41	1.78	-
o-xylene	0.02	0.09	0.06	0.26	-
Total xylene	0.06	0.26	0.47	2.04	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

Siriwan Chimsa-nga
(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0463/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 20/03/2025
SAMPLING DATE	: 11-12/03/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 14:20-14:25	FILE CODE	: 225096_TO-15_March
RECEIVED DATE	: 13/03/2025		
REPORT DATE	: 20/03/2025		

Compound	Non Detection		SAMPLING LOCATION		STANDARD (µg/m ³)
			Branch 8 : North		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	1.84	5.88	-
Cyclohexane	0.02	0.07	6.57	22.63	-
Toluene	0.02	0.08	0.93	3.50	-
m,p-xylene	0.04	0.17	0.49	2.13	-
o-xylene	0.02	0.09	0.31	1.35	-
Total xylene	0.06	0.26	0.80	3.48	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

Siriwan Chimsa-nga
(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd. (Branch 4 : Aromatics 1 Plant)	REQUEST SERVICE No.	: 0463/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 11-12/03/2025	ANALYTICAL DATE	: 20/03/2025
SAMPLING TIME	: 14:30-14:30	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 13/03/2025	FILE CODE	: 225096_TO-15_March
REPORT DATE	: 20/03/2025		

Compound	Non Detection		SAMPLING LOCATION		STANDARD ($\mu\text{g}/\text{m}^3$)
			Branch 8 : South		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	0.39	1.25	-
Cyclohexane	0.02	0.07	1.58	5.44	-
Toluene	0.02	0.08	0.67	2.52	-
m,p-xylene	0.04	0.17	0.35	1.52	-
o-xylene	0.02	0.09	0.06	0.26	-
Total xylene	0.06	0.26	0.41	1.78	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd EPA Methods TO-15.1999

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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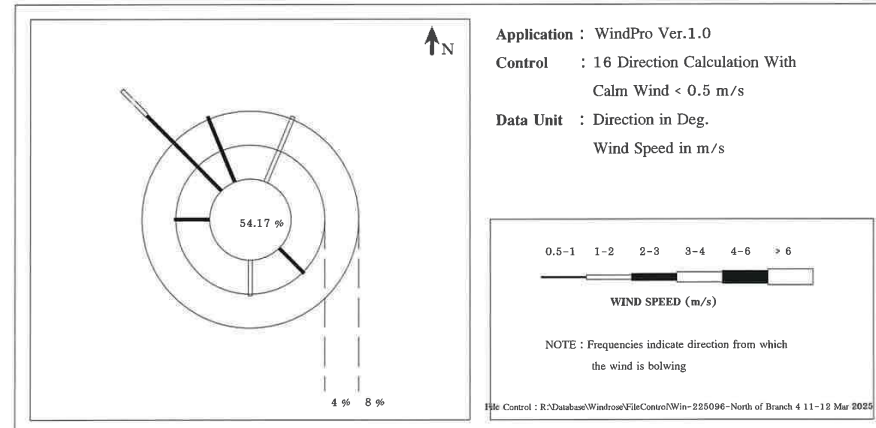
R:\Database\Windrose\Files\Control\Win-225096-North of Branch 4 11-12 Mar 2025



Meteorological Monitoring Results : Wind Rose
MTR-PTTGC 4

Location	: North of Branch 4	Monitor period	: 11-12 Mar 2025
Wind Speed Model	: Scarlet WS-21	Serial No	: AD:27
Wind Direction Model	: Scarlet WS-21	Serial No	: AD:27

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0833	0.0000	0.0000	0.0000	0.0000	0.0833
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
SSE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.0417	0.0000	0.0000	0.0000	0.0000	0.0417
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.1250	0.0417	0.0000	0.0000	0.0000	0.0000	0.1667
NNW	0.0833	0.0000	0.0000	0.0000	0.0000	0.0000	0.0833
CALM	0.5417						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-PTTGC 4

Location : North of Branch 4 Monitor period : 11-12 Mar 2025

Wind Speed Model : Scarlet WS-21

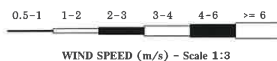
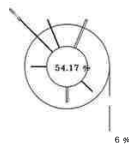
Serial No : AD:27

Wind Direction Model : Scarlet WS-21

Serial No : AD:27

Time	11-12 Mar 2025	
	WS(m/s)	WD
13:00 - 14:00	0.2	SSE
14:00 - 15:00	1.4	S
15:00 - 16:00	0.2	SSW
16:00 - 17:00	0.7	W
17:00 - 18:00	1.2	NW
18:00 - 19:00	0.9	NW
19:00 - 20:00	0.6	NNW
20:00 - 21:00	1.2	NNE
21:00 - 22:00	1.4	NNE
22:00 - 23:00	0.5	NNW
23:00 - 24:00	0.4	NW
00:00 - 01:00	0.1	NW
01:00 - 02:00	0.3	NW
02:00 - 03:00	0.6	NW
03:00 - 04:00	0.7	NW
04:00 - 05:00	0.4	S
05:00 - 06:00	0.3	SW
06:00 - 07:00	0.2	W
07:00 - 08:00	0.6	SE
08:00 - 09:00	0.1	SSW
09:00 - 10:00	0.1	NW
10:00 - 11:00	0.2	NW
11:00 - 12:00	0.4	NW
12:00 - 13:00	0.3	NW

Wind Rose



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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0715/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 04.06/05/2025
SAMPLING DATE	: 22-23/04/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 15:05-14:43	FILE CODE	: 225096_TO-15_April
RECEIVED DATE	: 24/04/2025		
REPORT DATE	: 07/05/2025		

Compound	SAMPLING LOCATION				STANDARD ($\mu\text{g}/\text{m}^3$)
	Non Detection		Branch 4 : North		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	1.02	3.26	-
Cyclohexane	0.02	0.07	2.87	9.88	-
Toluene	0.02	0.08	1.77	6.67	-
m,p-xylene	0.04	0.17	0.35	1.52	-
o-xylene	0.02	0.09	0.08	0.35	-
Total xylene	0.06	0.26	0.43	1.87	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd - EPA Methods TO-15,1999

Siriwan Chimsa-nga
(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparak
(Mrs. Araya Tipparak)

Technical Management Team

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Katesarin Vorradetwittaya

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.

(Miss Preeda Somjai)
Technical Management Team



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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0715/68
(Branch 4 : Aromatics I Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 04/06/05/2025
SAMPLING DATE : 22-23/04/2025 SAMPLE CONDITION : Normal
SAMPLING TIME : 14:43-14:29 FILE CODE : 225096_TO-15_April
RECEIVED DATE : 24/04/2025
REPORT DATE : 07/05/2025

Compound	SAMPLING LOCATION				STANDARD (µg/m ³)
	Non Detection		Branch 4 : South		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	0.11	0.35	-
Cyclohexane	0.02	0.07	0.15	0.52	-
Toluene	0.02	0.08	0.60	2.26	-
m,p-xylene	0.04	0.17	0.49	2.13	-
o-xylene	0.02	0.09	0.10	0.43	-
Total xylene	0.06	0.26	0.59	2.56	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

Siriwan Chimsa-nga

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparak)

(Mrs. Araya Tipparak)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0715/68
(Branch 4 : Aromatics I Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 04/06/05/2025
SAMPLING DATE : 22-23/04/2025 SAMPLE CONDITION : Normal
SAMPLING TIME : 15:24-15:24 FILE CODE : 225096_TO-15_April
RECEIVED DATE : 24/04/2025
REPORT DATE : 07/05/2025

Compound	Non Detection		SAMPLING LOCATION		STANDARD (µg/m ³)
			Branch 8 : North		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	4.34	13.86	-
Cyclohexane	0.02	0.07	5.36	18.46	-
Toluene	0.02	0.08	1.68	6.33	-
m,p-xylene	0.04	0.17	2.24	9.73	-
o-xylene	0.02	0.09	0.35	1.52	-
Total xylene	0.06	0.26	2.59	11.25	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd : EPA Methods TO-15,1999

Siriwan Chimsa-nga

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparak)

(Mrs. Araya Tipparak)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0715/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 04/06/05/2025
SAMPLING DATE : 22-23/04/2025 SAMPLE CONDITION : Normal
SAMPLING TIME : 15:32-15:04 FILE CODE : 225096_TO-15_April
RECEIVED DATE : 24/04/2025
REPORT DATE : 07/05/2025

Compound	Non Detection		SAMPLING LOCATION		STANDARD (µg/m ³)
			Branch 8 : South		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	0.63	2.01	-
Cyclohexane	0.02	0.07	3.24	11.16	-
Toluene	0.02	0.08	0.71	2.67	-
m,p-xylene	0.04	0.17	2.06	8.95	-
o-xylene	0.02 ^(c)	0.09	0.19	0.83	-
Total xylene	0.06	0.26	2.25	9.78	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 3rd : EPA Methods TO-15.1999

Siriwan Chimsa-nga
(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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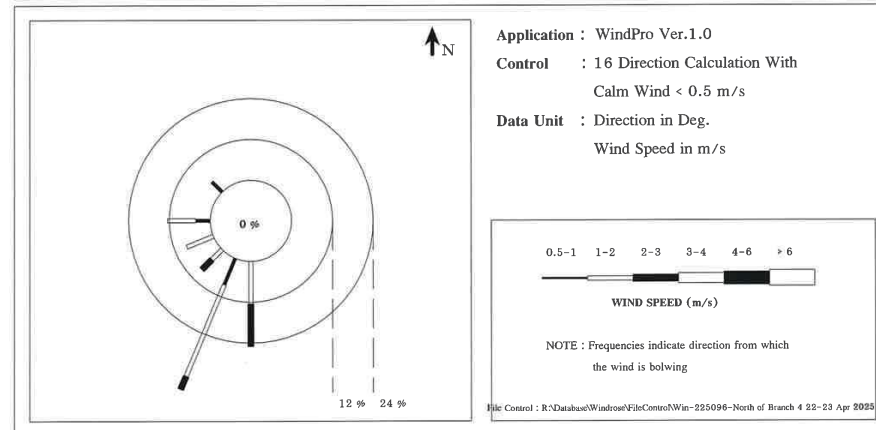


Meteorological Monitoring Results : Wind Rose

MTR-PTTGC 4

Location : North of Branch 4 Monitor period : 22-23 Apr 2025
Wind Speed Model : Novalynx WS-25 Serial No : A5084
Wind Direction Model : Novalynx WS-25 Serial No : A5084

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.1250	0.1250	0.0000	0.0000	0.0000	0.2500
SSW	0.0833	0.2917	0.0417	0.0000	0.0000	0.0000	0.4167
SW	0.0000	0.0417	0.0417	0.0000	0.0000	0.0000	0.0833
WSW	0.0000	0.0833	0.0000	0.0000	0.0000	0.0000	0.0833
W	0.0417	0.0833	0.0000	0.0000	0.0000	0.0000	0.1250
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.0000						



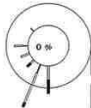
(Miss Katesarin Vorradetwittaya)
Environmental Scientist

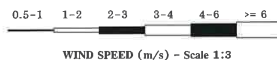
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose


MTR-PTTGC 4

Location : North of Branch 4		Monitor period : 22-23 Apr 2025	
Wind Speed Model : Novalynx WS-25		Serial No : A5084	
Wind Direction Model : Novalynx WS-25		Serial No : A5084	
Time	22-23 Apr 2025		WD
	WS(m/s)		
15:00 - 16:00	1.0		SSW
16:00 - 17:00	1.8		SSW
17:00 - 18:00	1.6		SSW
18:00 - 19:00	2.1		S
19:00 - 20:00	2.2		S
20:00 - 21:00	1.1		SSW
21:00 - 22:00	1.8		SSW
22:00 - 23:00	0.6		SSW
23:00 - 24:00	0.7		SSW
00:00 - 01:00	1.1		SW
01:00 - 02:00	1.5		W
02:00 - 03:00	1.9		WSW
03:00 - 04:00	1.0		W
04:00 - 05:00	0.7		W
05:00 - 06:00	0.7		NW
06:00 - 07:00	1.0		WSW
07:00 - 08:00	2.4		SW
08:00 - 09:00	2.2		SSW
09:00 - 10:00	1.6		S
10:00 - 11:00	1.0		SSW
11:00 - 12:00	1.7		S
12:00 - 13:00	2.2		S
13:00 - 14:00	1.7		SSW
14:00 - 15:00	1.6		S
Wind Rose			



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(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
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AMBIENT AIR QUALITY ANALYSIS REPORT


CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0926/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 24.29/05/2025
SAMPLING DATE	: 20-21/05/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 14:29-13:43	FILE CODE	: 225096_TO-15_May
RECEIVED DATE	: 22/05/2025		
REPORT DATE	: 29/05/2025		

Compound	SAMPLING LOCATION				STANDARD ($\mu\text{g}/\text{m}^3$)
	Non Detection		Branch 4 : North		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	0.63	2.01	-
Cyclohexane	0.02	0.07	0.95	3.27	-
Toluene	0.02	0.08	1.10	4.14	-
m,p-xylene	0.04	0.17	0.63	2.74	-
o-xylene	0.02	0.09	0.06	0.26	-
Total xylene	0.06	0.26	0.69	3.00	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd - EPA Methods TO-15,1999


(Miss Siriwan Chimsa-nga)

Analyst


(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0926/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 24.29/05/2025
SAMPLING DATE : 20-21/05/2025 SAMPLE CONDITION : Normal
SAMPLING TIME : 14:10-14:03 FILE CODE : 225096_TO-15_May
RECEIVED DATE : 22/05/2025
REPORT DATE : 29/05/2025

Compound	Non Detection		SAMPLING LOCATION		STANDARD ($\mu\text{g}/\text{m}^3$)
			Branch 4 : South		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004 *	0.013	0.17	0.54	-
Cyclohexane	0.02	0.07	0.06	0.21	-
Toluene	0.02	0.08	0.22	0.83	-
m,p-xylene	0.04	0.17	0.73	3.17	-
o-xylene	0.02	0.09	0.04	0.17	-
Total xylene	0.06	0.26	0.77	3.34	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd - EPA Methods TO-15,1999

Siriwan Chimsa-nga

(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0926/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 24.29/05/2025
SAMPLING DATE : 20-21/05/2025 SAMPLE CONDITION : Normal
SAMPLING TIME : 15:19-14:26 FILE CODE : 225096_TO-15_May
RECEIVED DATE : 22/05/2025
REPORT DATE : 29/05/2025

Compound	Non Detection		SAMPLING LOCATION		STANDARD ($\mu\text{g}/\text{m}^3$)
			Branch 8 : North		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	2.40	7.67	-
Cyclohexane	0.02	0.07	2.16	7.44	-
Toluene	0.02	0.08	1.49	5.61	-
m,p-xylene	0.04	0.17	0.69	3.00	-
o-xylene	0.02	0.09	0.47	2.04	-
Total xylene	0.06 *	0.26	1.16	5.04	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd - EPA Methods TO-15,1999

Siriwan Chimsa-nga

(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparuk

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0926/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 24,29/05/2025
SAMPLING DATE	: 20-21/05/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 15:26-14:32	FILE CODE	: 225096_TO-15_May
RECEIVED DATE	: 22/05/2025		
REPORT DATE	: 29/05/2025		

Compound	Non Detection		SAMPLING LOCATION		STANDARD ($\mu\text{g}/\text{m}^3$)
			Branch 8 : South		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
Benzene	0.004	0.013	0.99	3.16	-
Cyclohexane	0.02	0.07	1.77	6.10	-
Toluene	0.02	0.08	0.76	2.86	-
m,p-xylene	0.04	0.17	0.59	2.56	-
o-xylene	0.02	0.09	0.16	0.69	-
Total xylene	0.06	0.26	0.75	3.25	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 3rd : EPA Methods TO-15,1999

Siriwan Chimsa-nga
(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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Meteorological Monitoring Results : Wind Rose

MTR-PTTGC 4

Location : North of Branch 4

Monitor period : 20-21 May 2025

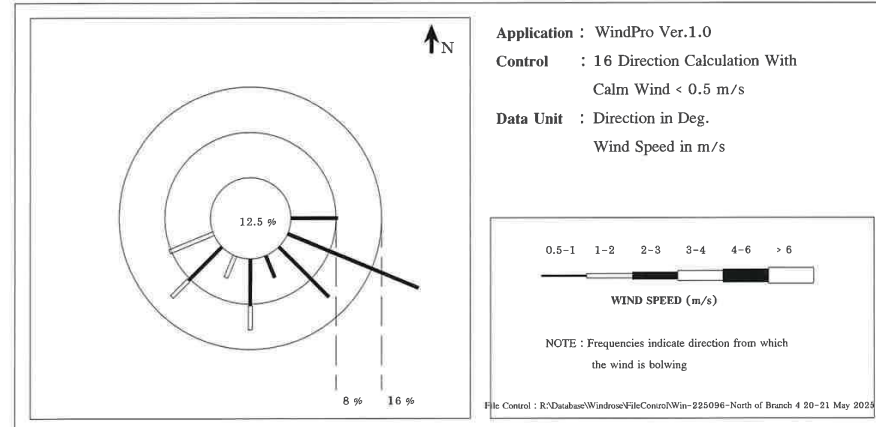
Wind Speed Model : Scarlet WS-21

Serial No : AD:07

Wind Direction Model : Scarlet WS-21

Serial No : AD:07

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0833	0.0000	0.0000	0.0000	0.0000	0.0000	0.0833
ESE	0.2500	0.0000	0.0000	0.0000	0.0000	0.0000	0.2500
SE	0.1250	0.0000	0.0000	0.0000	0.0000	0.0000	0.1250
SSE	0.0417	0.0000	0.0000	0.0000	0.0000	0.0000	0.0417
S	0.0833	0.0417	0.0000	0.0000	0.0000	0.0000	0.1250
SSW	0.0000	0.0417	0.0000	0.0000	0.0000	0.0000	0.0417
SW	0.0833	0.0417	0.0000	0.0000	0.0000	0.0000	0.1250
WSW	0.0000	0.0833	0.0000	0.0000	0.0000	0.0000	0.0833
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.1250						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

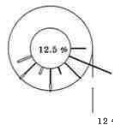


Meteorological Monitoring Results : Wind Rose MTR-PTTGC 4

Location : North of Branch 4 Monitor period : 20-21 May 2025
 Wind Speed Model : Scarlet WS-21 Serial No : AD:07
 Wind Direction Model : Scarlet WS-21 Serial No : AD:07

Time	20-21 May 2025	
	WS(m/s)	WD
14:00 - 15:00	1.3	WSW
15:00 - 16:00	1.2	SSW
16:00 - 17:00	1.0	SW
17:00 - 18:00	0.8	E
18:00 - 19:00	0.8	ESE
19:00 - 20:00	0.7	ESE
20:00 - 21:00	0.7	ESE
21:00 - 22:00	0.8	E
22:00 - 23:00	0.6	ESE
23:00 - 24:00	0.7	SE
00:00 - 01:00	0.7	SSE
01:00 - 02:00	0.7	ESE
02:00 - 03:00	0.7	SE
03:00 - 04:00	0.8	SE
04:00 - 05:00	0.8	S
05:00 - 06:00	0.9	SW
06:00 - 07:00	0.9	ESE
07:00 - 08:00	0.3	WNW
08:00 - 09:00	0.4	NNE
09:00 - 10:00	0.3	NNE
10:00 - 11:00	1.1	WSW
11:00 - 12:00	1.3	S
12:00 - 13:00	0.9	SW
13:00 - 14:00	0.8	S

Wind Rose



0.5-1 1-2 2-3 3-4 4-6 >= 6
 WIND SPEED (m/s) - Scale 1:3

File Control : R:\Database\Windrose\FileControl\Win-225096-North of Branch 4 20-21 May 2025

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
 Technical Management Team



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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1136/68
 (Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Subatmospheric Pressure Sampling
 SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 26/06/2025
 SAMPLING DATE : 17-18/06/2025 SAMPLE CONDITION : Normal
 SAMPLING TIME : 13:55-13:40 FILE CODE : 225096_TO-15_June
 RECEIVED DATE : 19/06/2025
 REPORT DATE : 27/06/2025

Compound	Non Detection		SAMPLING LOCATION		STANDARD (µg/m ³)
			Branch 4 : North		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	0.28	0.89	-
Cyclohexane	0.02	0.07	8.47	29.17	-
Toluene	0.02	0.08	1.02	3.84	-
m,p-xylene	0.04	0.17	0.27	1.17	-
o-xylene	0.02	0.09	0.04	0.17	-
Total xylene	0.06	0.26	0.31	1.34	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd EPA Methods TO-15,1999

(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tippiaruk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1136/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 26/06/2025
SAMPLING DATE	: 17-18/06/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 14:10-14:05	FILE CODE	: 225096_TO-15_June
RECEIVED DATE	: 19/06/2025		
REPORT DATE	: 27/06/2025		

Compound	SAMPLING LOCATION				STANDARD (µg/m ³)
	Non Detection		Branch 4 : South		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	0.24	0.77	-
Cyclohexane	0.02	0.07	0.13	0.45	-
Toluene	0.02	0.08	1.10	4.14	-
m,p-xylene	0.04 ^(c)	0.17	0.39	1.69	-
o-xylene	0.02	0.09	0.06	0.26	-
Total xylene	0.06	0.26	0.45	1.95	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd - EPA Methods TO-15,1999


(Miss Siriwan Chimsa-nga)

Analyst


(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

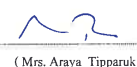
CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1136/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 26/06/2025
SAMPLING DATE	: 17-18/06/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 14:55-14:40	FILE CODE	: 225096_TO-15_June
RECEIVED DATE	: 19/06/2025		
REPORT DATE	: 27/06/2025		

Compound	SAMPLING LOCATION				STANDARD (µg/m ³)
	Non Detection		Branch 8 : North		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	11.99	38.30	-
Cyclohexane	0.02	0.07	2.87	9.88	-
Toluene	0.02	0.08	1.17	4.41	-
m,p-xylene	0.04	0.17	0.67	2.91	-
o-xylene	0.02	0.09	0.12	0.52	-
Total xylene	0.06	0.26	0.79	3.43	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd - EPA Methods TO-15,1999


(Miss Siriwan Chimsa-nga)

Analyst


(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1136/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING BY	: SECOT Co., Ltd.	ANALYTICAL DATE	: 26/06/2025
SAMPLING DATE	: 17-18/06/2025	SAMPLE CONDITION	: Normal
SAMPLING TIME	: 14:45-14:45	FILE CODE	: 225096_TO-15_June
RECEIVED DATE	: 19/06/2025		
REPORT DATE	: 27/06/2025		

Compound	SAMPLING LOCATION				STANDARD (µg/m ³)
	Non Detection		Branch 8 : South		
	ppbv	µg/m ³	ppbv	µg/m ³	
Benzene	0.004	0.013	0.22	0.70	-
Cyclohexane	0.02	0.07	4.34	14.95	-
Toluene	0.02	0.08	0.52	1.96	-
m,p-xylene	0.04	0.17	0.47	2.04	-
o-xylene	0.02	0.09	0.04	0.17	-
Total xylene	0.06	0.26	0.51	2.21	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2nd - EPA Methods TO-15,1999

Siriwan Chimsa-nga
(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparak
(Mrs. Araya Tipparak)

Technical Management Team

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R:\Database\Windrose\FileControl\Win-225096-North of Branch 4 17-18 Jun 2025

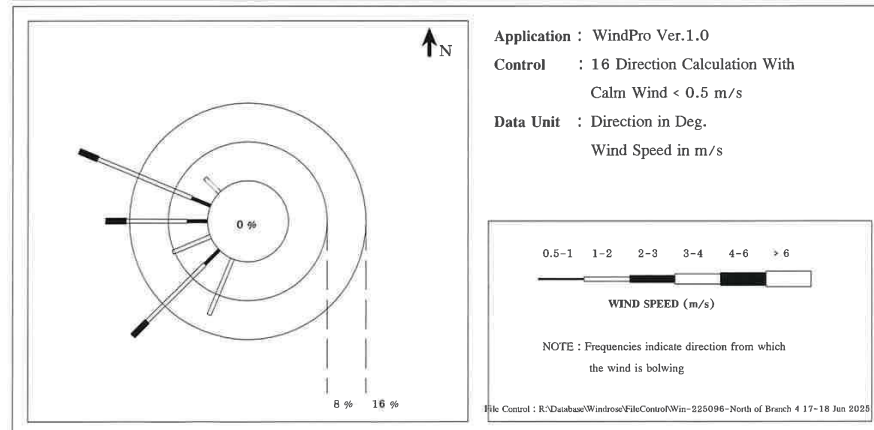


Meteorological Monitoring Results : Wind Rose

MTR-PTTGC 4

Location : North of Branch 4	Monitor period : 17-18 Jun 2025
Wind Speed Model : Scarlet WS-21	Serial No : AD:05
Wind Direction Model : Scarlet WS-21	Serial No : AD:05

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSW	0.0000	0.1250	0.0000	0.0000	0.0000	0.0000	0.1250
SW	0.0417	0.1667	0.0417	0.0000	0.0000	0.0000	0.2500
WSW	0.0000	0.0833	0.0000	0.0000	0.0000	0.0000	0.0833
W	0.0417	0.1250	0.0417	0.0000	0.0000	0.0000	0.2083
WNW	0.0417	0.2083	0.0417	0.0000	0.0000	0.0000	0.2917
NW	0.0000	0.0417	0.0000	0.0000	0.0000	0.0000	0.0417
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.0000						



Katesarin Vorradetwittaya
(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



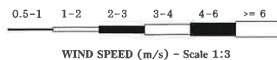
Meteorological Monitoring Results : Wind Rose

MTR-PTTGC 4

Location : North of Branch 4 Monitor period : 17-18 Jun 2025
 Wind Speed Model : Scarlet WS-21 Serial No : AD:05
 Wind Direction Model : Scarlet WS-21 Serial No : AD:05

Time	17-18 Jun 2025	
	WS(m/s)	WD
13:00 - 14:00	0.9	SW
14:00 - 15:00	2.0	SW
15:00 - 16:00	1.7	WSW
16:00 - 17:00	1.7	W
17:00 - 18:00	1.5	SSW
18:00 - 19:00	1.2	SSW
19:00 - 20:00	1.5	SW
20:00 - 21:00	1.5	SW
21:00 - 22:00	1.4	SW
22:00 - 23:00	1.3	SSW
23:00 - 24:00	1.2	SW
00:00 - 01:00	1.4	WSW
01:00 - 02:00	1.4	W
02:00 - 03:00	1.3	W
03:00 - 04:00	1.1	WNW
04:00 - 05:00	1.0	NW
05:00 - 06:00	0.9	WNW
06:00 - 07:00	0.9	W
07:00 - 08:00	1.2	WNW
08:00 - 09:00	1.2	WNW
09:00 - 10:00	1.4	WNW
10:00 - 11:00	1.6	WNW
11:00 - 12:00	2.1	W
12:00 - 13:00	2.2	WNW

Wind Rose	
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File Control : R:\Database\Windrose\FileControl\Win-225096-North of Branch 4 17-18 Jun 2025

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
 Technical Management Team

ภาคผนวก ง.3

ใบรับรองผลการตรวจวัดคุณภาพน้ำ



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0030/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:56
SAMPLING DATE	: 08/01/2025	ANALYTICAL DATE	: 09-15/01/2025
RECEIVED DATE	: 09/01/2025	SITE OPERATOR	: Miss Salisa Ainree
REPORT DATE	: 16/01/2025	FILE CODE	: 225096_WW_January
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD
		METHODS	(non-detectable)	Equalization Tank	
pH	-	4500-H ⁺ B	< 0.10	7.63	-
Total Suspended Solids	mg/l	2540 D	< 2.5	62	-
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	0.7	-
Fat Oil & Grease	mg/l	5520 B	< 2.0	3.5	-
BOD ₅	mg/l	5210 B	< 1.0	20.1	-
COD	mg/l	5220 C	< 15.00	57.60	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0157	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED, 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๖-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0030/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:49
SAMPLING DATE	: 08/01/2025	ANALYTICAL DATE	: 09-15/01/2025
RECEIVED DATE	: 09/01/2025	SITE OPERATOR	: Miss Salisa Ainree
REPORT DATE	: 16/01/2025	FILE CODE	: 225096_WW_January
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from Final Effluent Basin	
pH	-	4500-H ⁺ B	< 0.10	7.78	5.5-9.0
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5
BOD ₅	mg/l	5210 B	< 1.0	1.0	≤ 20
COD	mg/l	5220 C	< 15.00	32.49	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED, 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๖-239-ก-0004

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 3. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016) and Notification of the Ministry of Industry, B.E.2560 (2017).
 4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0030/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:07
SAMPLING DATE	: 08/01/2025	ANALYTICAL DATE	: 09-15/01/2025
RECEIVED DATE	: 09/01/2025	SITE OPERATOR	: Miss Salisa Ainree
REPORT DATE	: 16/01/2025	FILE CODE	: 225096_WW_January
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from 940-XC1	
pH	-	4500-H ⁺ B	< 0.10	7.49	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	4,200	≤ 43,940 ^{2/}
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
BOD ₅	mg/l	5210 B	< 1.0	1.3	≤ 20
COD	mg/l	5220 C	< 15.00	31.01	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA APHA WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๓-239-๓-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๓-239-๓-0004

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 3. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016) and Notification of the Ministry of Industry, B.E.2560 (2017).
 4. ^{2/} Total Dissolved Solids (TDS) shall be increased from TDS in receiving water not exceeding 5,000 mg/l (TDS valve in the last month in receiving water = 38,940 mg/l).
 5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0172/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 09:39
SAMPLING DATE	: 05/02/2025	ANALYTICAL DATE	: 06-11/02/2025
RECEIVED DATE	: 06/02/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 13/02/2025	FILE CODE	: 225096_WW_February
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Equalization Tank	
pH	-	4500-H ⁺ B	< 0.10	7.80	-
Total Suspended Solids	mg/l	2540 D	< 2.5	19	-
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	-
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	-
BOD ₅	mg/l	5210 B	< 1.0	27.8	-
COD	mg/l	5220 C	< 15.00	50.36	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0043	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA APHA WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๓-239-๓-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0172/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 09:34
SAMPLING DATE	: 05/02/2025	ANALYTICAL DATE	: 06-11/02/2025
RECEIVED DATE	: 06/02/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 13/02/2025	FILE CODE	: 225096_WW_February
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from Final Effluent Basin	
pH	-	4500-H ⁺ B	< 0.10	7.61	5.5-9.0
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	< 15.00	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED., 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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 4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0172/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 09:50
SAMPLING DATE	: 05/02/2025	ANALYTICAL DATE	: 06-11/02/2025
RECEIVED DATE	: 06/02/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 13/02/2025	FILE CODE	: 225096_WW_February
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from 940-XC1	
pH	-	4500-H ⁺ B	< 0.10	8.19	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	2,328	≤ 43,940 ^{2/}
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	19.37	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED., 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

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 4. ^{2/} Total Dissolved Solids (TDS) shall be increased from TDS in receiving water not exceeding 5,000 mg/l (TDS value in the last month in receiving water = 38,940 mg/l).
 5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0388/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Grab
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 09:35
SAMPLING DATE : 05/03/2025 ANALYTICAL DATE : 06-14/03/2025
RECEIVED DATE : 06/03/2025 SITE OPERATOR : Miss Thipsuda Wannakran
REPORT DATE : 14/03/2025 FILE CODE : 225096_WW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Equalization Tank	
pH	-	4500-H ⁺ B	< 0.10	7.27	-
Total Suspended Solids	mg/l	2540 D	< 2.5	21	-
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	-
Fat Oil & Grease	mg/l	5520 B	< 2.0	2.4	-
BOD ₅	mg/l	5210 B	< 1.0	32.2	-
COD	mg/l	5220 C	< 15.00	89.66	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

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(Mrs. Araya Tipparuk)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0388/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Grab
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 09:30
SAMPLING DATE : 05/03/2025 ANALYTICAL DATE : 06-14/03/2025
RECEIVED DATE : 06/03/2025 SITE OPERATOR : Miss Thipsuda Wannakran
REPORT DATE : 14/03/2025 FILE CODE : 225096_WW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from Final Effluent Basin	
pH	-	4500-H ⁺ B	< 0.10	7.24	5.5-9.0
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	18.68	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

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Technical Management Team

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4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. **REQUEST SERVICE No.** : 0388/68
: (Branch 4 : Aromatics 1 Plant) **SAMPLING METHOD** : Grab
SAMPLING BY : SECOT Co., Ltd. **SAMPLING TIME** : 09:40
SAMPLING DATE : 05/03/2025 **ANALYTICAL DATE** : 06-14/03/2025
RECEIVED DATE : 06/03/2025 **SITE OPERATOR** : Miss Thipsuda Wannakran
REPORT DATE : 14/03/2025 **FILE CODE** : 225096_WW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from 940-XC1	
pH	-	4500-H ⁺ B	< 0.10	7.91	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,952	≤ 36,580 ^{2/}
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	26.15	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

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4. ^{2/} Total Dissolved Solids (TDS) shall be increased from TDS in receiving water not exceeding 5,000 mg/l (TDS valve in the last month in receiving water = 31,580 mg/l).

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. **REQUEST SERVICE No.** : 0590/68
: (Branch 4 : Aromatics 1 Plant) **SAMPLING METHOD** : Grab
SAMPLING BY : SECOT Co., Ltd. **SAMPLING TIME** : 14:12
SAMPLING DATE : 02/04/2025 **ANALYTICAL DATE** : 03-09/04/2025
RECEIVED DATE : 03/04/2025 **SITE OPERATOR** : Mr. Baworn Deechaiya
REPORT DATE : 10/04/2025 **FILE CODE** : 225096_WW_April
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Equalization Tank	
pH	-	4500-H ⁺ B	< 0.10	7.44	-
Total Suspended Solids	mg/l	2540 D	< 2.5	14	-
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	-
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	-
BOD ₅	mg/l	5210 B	< 1.0	25.0	-
COD	mg/l	5220 C	< 15.00	50.21	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0218	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0590/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:06
SAMPLING DATE	: 02/04/2025	ANALYTICAL DATE	: 03-09/04/2025
RECEIVED DATE	: 03/04/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 10/04/2025	FILE CODE	: 225096_WW_April
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from Final Effluent Basin	
pH	-	4500-H ⁺ B	< 0.10	8.07	5.5-9.0
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	< 15.00	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA APHA WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

Araya Tipparuk

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 4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0590/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:23
SAMPLING DATE	: 02/04/2025	ANALYTICAL DATE	: 03-09/04/2025
RECEIVED DATE	: 03/04/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 10/04/2025	FILE CODE	: 225096_WW_April
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from 940-XC1	
pH	-	4500-H ⁺ B	< 0.10	8.29	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,990	≤ 33,120 ^{2/}
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	36.52	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA APHA WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

Araya Tipparuk

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 4. ^{2/} Total Dissolved Solids (TDS) shall be increased from TDS in receiving water not exceeding 5,000 mg/l (TDS valve in the last month in receiving water = 28,120 mg/l).
 5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. **REQUEST SERVICE No.** : 0803/68
(Branch 4 : Aromatics 1 Plant) **SAMPLING METHOD** : Grab
SAMPLING BY : SECOT Co., Ltd. **SAMPLING TIME** : 11:24
SAMPLING DATE : 07/05/2025 **ANALYTICAL DATE** : 08-16/05/2025
RECEIVED DATE : 08/05/2025 **SITE OPERATOR** : Mr. Aniwat Pimwanna
REPORT DATE : 17/05/2025 **FILE CODE** : 225096_WW_May
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Equalization Tank	
pH	-	4500-H ⁺ B	< 0.10	7.54	-
Total Suspended Solids	mg/l	2540 D	< 2.5	24	-
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	-
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	-
BOD ₅	mg/l	5210 B	< 1.0	25.9	-
COD	mg/l	5220 C	< 15.00	48.76	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0176	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

- Remark :**
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 3. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. **REQUEST SERVICE No.** : 0803/68
(Branch 4 : Aromatics 1 Plant) **SAMPLING METHOD** : Grab
SAMPLING BY : SECOT Co., Ltd. **SAMPLING TIME** : 11:19
SAMPLING DATE : 07/05/2025 **ANALYTICAL DATE** : 08-16/05/2025
RECEIVED DATE : 08/05/2025 **SITE OPERATOR** : Mr. Aniwat Pimwanna
REPORT DATE : 17/05/2025 **FILE CODE** : 225096_WW_May
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from Final Effluent Basin	
pH	-	4500-H ⁺ B	< 0.10	7.78	5.5-9.0
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	< 15.00	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0008	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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 3. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016) and Notification of the Ministry of Industry, B.E.2560 (2017).
 4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0803/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:32
SAMPLING DATE	: 07/05/2025	ANALYTICAL DATE	: 08-16/05/2025
RECEIVED DATE	: 08/05/2025	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 17/05/2025	FILE CODE	: 225096_WW_May
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from 940-XC1	
pH	-	4500-H ⁺ B	< 0.10	8.04	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,128	≤ 15,440 ^{2/}
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	22.02	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

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REG. NO. 2-239-ก-0005

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3. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016) and
Notification of the Ministry of Industry, B.E.2560 (2017).

4. ^{2/} Total Dissolved Solids (TDS) shall be increased from TDS in receiving water not exceeding 5,000 mg/l
(TDS valve in the last month in receiving water = 10,440 mg/l).

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1013/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 09:10
SAMPLING DATE	: 04/06/2025	ANALYTICAL DATE	: 05-12/06/2025
RECEIVED DATE	: 05/06/2025	SITE OPERATOR	: Mr. Chitpon Somprasong
REPORT DATE	: 12/06/2025	FILE CODE	: 225096_WW_June
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Equalization Tank	
pH	-	4500-H ⁺ B	< 0.10	7.55	-
Total Suspended Solids	mg/l	2540 D	< 2.5	40	-
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	-
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	-
BOD ₅	mg/l	5210 B	< 1.0	20.6	-
COD	mg/l	5220 C	< 15.00	108	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0080	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

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Araya Tipparuk

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. **REQUEST SERVICE No.** : 1013/68
(Branch 4 : Aromatics 1 Plant) **SAMPLING METHOD** : Grab
SAMPLING BY : SECOT Co., Ltd. **SAMPLING TIME** : 09:05
SAMPLING DATE : 04/06/2025 **ANALYTICAL DATE** : 05-12/06/2025
RECEIVED DATE : 05/06/2025 **SITE OPERATOR** : Mr. Chitpon Somprasong
REPORT DATE : 12/06/2025 **FILE CODE** : 225096_WW_June
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from Final Effluent Basin	
pH	-	4500-H ⁺ B	< 0.10	7.61	5.5-9.0
Sulfide as H ₂ S	mg/l	4500-S ²⁻ F	< 0.20	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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 4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. **REQUEST SERVICE No.** : 1163/68
(Branch 4 : Aromatics 1 Plant) **SAMPLING METHOD** : Grab
SAMPLING BY : SECOT Co., Ltd. **SAMPLING TIME** : 13:53
SAMPLING DATE : 24/06/2025 **ANALYTICAL DATE** : 25-30/06/2025
RECEIVED DATE : 25/06/2025 **SITE OPERATOR** : Mr. Jeerawat Khothamhan
REPORT DATE : 03/07/2025 **FILE CODE** : 225096_WW_June
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				Effluent from Final Effluent Basin	
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
COD	mg/l	5220 C	< 15.00	26.08	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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 4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1013/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 09:17
SAMPLING DATE	: 04/06/2025	ANALYTICAL DATE	: 05-12/06/2025
RECEIVED DATE	: 05/06/2025	SITE OPERATOR	: Mr. Chitpon Somprasong
REPORT DATE	: 12/06/2025	FILE CODE	: 225096_WW_June
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Effluent from	STANDARD ^{1/}
				940-XC1	
pH	-	4500-H ⁺ B	< 0.10	7.84	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,272	≤ 31,860 ^{2/}
BOD ₅	mg/l	5210 B	< 1.0	1.2	≤ 20

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tipparuk)

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Technical Management Team

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3. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016) and
Notification of the Ministry of Industry, B.E.2560 (2017).

4. ^{2/} Total Dissolved Solids (TDS) shall be increased from TDS in receiving water not exceeding 5,000 mg/l
(TDS value in the last month in receiving water = 26,860 mg/l).

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1189/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 09:17
SAMPLING DATE	: 27/06/2025	ANALYTICAL DATE	: 28/06/2025-02/07/2025
RECEIVED DATE	: 28/06/2025	SITE OPERATOR	: Miss Wiraya Patchimboon
REPORT DATE	: 03/07/2025	FILE CODE	: 225096_WW_June
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Effluent from	STANDARD ^{1/}
				940-XC1	
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
COD	mg/l	5220 C	< 15.00	39.65	≤ 120
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0006	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tipparuk)

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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3. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016) and
Notification of the Ministry of Industry, B.E.2560 (2017).

4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0803/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:53
SAMPLING DATE	: 07/05/2025	ANALYTICAL DATE	: 08-16/05/2025
RECEIVED DATE	: 08/05/2025	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 17/05/2025	FILE CODE	: 225096_WW_May
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Upstream	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	8.65	-
Total Suspended Solids	mg/l	2540 D	< 2.5	23	-
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	-
BOD ₅	mg/l	5210 B	< 1.0	2.2	-
COD	mg/l	5220 C	< 15.00	23.59	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED., 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

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3. ^{1/} The Standard Values of Surface Water Quality for Class 5, Notification by the National Environment Board No.8, B.E.2537 (1994).

4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0803/68
	(Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:58
SAMPLING DATE	: 07/05/2025	ANALYTICAL DATE	: 08-16/05/2025
RECEIVED DATE	: 08/05/2025	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 17/05/2025	FILE CODE	: 225096_WW_May
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Downstream	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	8.67	-
Total Suspended Solids	mg/l	2540 D	< 2.5	29	-
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	-
BOD ₅	mg/l	5210 B	< 1.0	3.9	-
COD	mg/l	5220 C	< 15.00	28.31	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED., 2017 (AWWA, APHA, WEF)

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(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

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4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0054/68
: (Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Grab
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 11:21
SAMPLING DATE : 09/01/2025 ANALYTICAL DATE : 10,15/01/2025
RECEIVED DATE : 10/01/2025 SITE OPERATOR : Miss Salisa Ainree
REPORT DATE : 16/01/2025 FILE CODE : 225096_CW_January
SAMPLE CONDITION : Normal
LOCATION DESCRIPTION 1.ระยะห่างจากจุดระบายน้ำทิ้งของนิคมฯมาบตาพุด (ปากคลองซากหมาก) 500 เมตร

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD
Total Dissolved Solids	mg/l	2540 C	< 25	31,940	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED., 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0281/68
: (Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Grab
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:53
SAMPLING DATE : 13/02/2025 ANALYTICAL DATE : 17-18/02/2025
RECEIVED DATE : 14/02/2025 SITE OPERATOR : Miss Salisa Ainree
REPORT DATE : 19/02/2025 FILE CODE : 225096_CW_February
SAMPLE CONDITION : Normal
LOCATION DESCRIPTION 1.ระยะห่างจากจุดระบายน้ำทิ้งของนิคมฯมาบตาพุด (ปากคลองซากหมาก) 500 เมตร

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD
Total Dissolved Solids	mg/l	2540 C	< 25	31,580	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED., 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0480/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:30
SAMPLING DATE	: 13/03/2025	ANALYTICAL DATE	: 14-15/03/2025
RECEIVED DATE	: 14/03/2025	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 21/03/2025	FILE CODE	: 225096_CW_March
SAMPLE CONDITION	: Normal		

LOCATION DESCRIPTION 1.ระยะห่างจากจุดระบายน้ำทิ้งของนิคมฯมาบตาพุด (ปากคลองชักหาหมาก) 500 เมตร

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD
Total Dissolved Solids	mg/l	2540 C	< 25	28,120	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0666/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 12:08
SAMPLING DATE	: 10/04/2025	ANALYTICAL DATE	: 11,17/04/2025
RECEIVED DATE	: 11/04/2025	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 21/04/2025	FILE CODE	: 225096_CW_April
SAMPLE CONDITION	: Normal		

LOCATION DESCRIPTION 1.ระยะห่างจากจุดระบายน้ำทิ้งของนิคมฯมาบตาพุด (ปากคลองชักหาหมาก) 500 เมตร

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD
Total Dissolved Solids	mg/l	2540 C	< 25	10,440	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0831/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 13:01
SAMPLING DATE	: 08/05/2025	ANALYTICAL DATE	: 09,13/05/2025
RECEIVED DATE	: 09/05/2025	SITE OPERATOR	: Mr.Tanachot Changlor
REPORT DATE	: 17/05/2025	FILE CODE	: 225096_CW_May
SAMPLE CONDITION	: Normal		

LOCATION DESCRIPTION 1.ระยะห่างจากจุดระบายน้ำทิ้งของนิคมฯมาบตาพุด (ปากคลองชากหมาก) 500 เมตร

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD
Total Dissolved Solids	mg/l	2540 C	< 25	26.860	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED, 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1083/68
	: (Branch 4 : Aromatics 1 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:30
SAMPLING DATE	: 12/06/2025	ANALYTICAL DATE	: 13,16/06/2025
RECEIVED DATE	: 13/06/2025	SITE OPERATOR	: Mr. Jeerawat Khotamhan
REPORT DATE	: 21/06/2025	FILE CODE	: 225096_CW_June
SAMPLE CONDITION	: Normal		

LOCATION DESCRIPTION 1.ระยะห่างจากจุดระบายน้ำทิ้งของนิคมฯมาบตาพุด (ปากคลองชากหมาก) 500 เมตร

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD
Total Dissolved Solids	mg/l	2540 C	< 25	28.860	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED, 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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ภาคผนวก ง.4

ใบรับรองผลการตรวจวัดคุณภาพน้ำใต้ดิน



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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0584/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Pneumatic Bladder Pump
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 10:54-11:12
SAMPLING DATE : 31/03/2025 ANALYTICAL DATE : 01/04/2025
RECEIVED DATE : 01/04/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhot
REPORT DATE : 04/04/2025 FILE CODE : 225096_GW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-01	STANDARD ^{1/}
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
Total Xylenes	mg/l	6200 B	< 0.0006	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

REG. NO. ๖-239-๓-0022

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๖-239-๓-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0584/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Pneumatic Bladder Pump
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 10:54-11:12
SAMPLING DATE : 31/03/2025 ANALYTICAL DATE : 02/04/2025
RECEIVED DATE : 01/04/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhot
REPORT DATE : 04/04/2025 FILE CODE : 225096_GW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-01	STANDARD ^{1/}
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-๓-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0584/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Pneumatic Bladder Pump
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 10:12-10:28
SAMPLING DATE : 31/03/2025 ANALYTICAL DATE : 01/04/2025
RECEIVED DATE : 01/04/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhrot
REPORT DATE : 04/04/2025 FILE CODE : 225096_GW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-06	STANDARD ^{1/}
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
Total Xylenes	mg/l	6200 B	< 0.0006	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA.APHA.WEF)

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

REG. NO. ๓-239-๓-0022

(Mrs. Araya Tipparuk)

(Mrs. Araya Tipparuk)

Technical Management Team

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0584/68
(Branch 4 : Aromatics 1 Plant) SAMPLING METHOD : Pneumatic Bladder Pump
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 10:12-10:28
SAMPLING DATE : 31/03/2025 ANALYTICAL DATE : 02/04/2025
RECEIVED DATE : 01/04/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhrot
REPORT DATE : 04/04/2025 FILE CODE : 225096_GW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-06	STANDARD ^{1/}
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA.APHA.WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๓-239-๓-0005

(Mrs. Araya Tipparuk)

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0584/68
	(Branch 8 : Tank Farm Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 13:44-13:59
SAMPLING DATE	: 31/03/2025	ANALYTICAL DATE	: 01/04/2025
RECEIVED DATE	: 01/04/2025	SITE OPERATOR	: Mr.Natthachai Chaiyakhrot
REPORT DATE	: 04/04/2025	FILE CODE	: 225096_GW_March
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-10	STANDARD ^{1/}
Benzene	mg/l	6200 B	< 0.0002	0.0056	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	0.0003	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	0.0005	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
Total Xylenes	mg/l	6200 B	< 0.0006	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

REG. NO. ๖-239-๖-0022

(Mrs. Araya Tipparuk)

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 0584/68
	(Branch 8 : Tank Farm Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 13:44-13:59
SAMPLING DATE	: 31/03/2025	ANALYTICAL DATE	: 02/04/2025
RECEIVED DATE	: 01/04/2025	SITE OPERATOR	: Mr.Natthachai Chaiyakhrot
REPORT DATE	: 04/04/2025	FILE CODE	: 225096_GW_March
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-10	STANDARD ^{1/}
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-๖-0005

(Mrs. Araya Tipparuk)

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0584/68
(Branch 8 : Tank Farm Plant) SAMPLING METHOD : Pneumatic Bladder Pump
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:30-14:46
SAMPLING DATE : 31/03/2025 ANALYTICAL DATE : 01/04/2025
RECEIVED DATE : 01/04/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhot
REPORT DATE : 04/04/2025 FILE CODE : 225096_GW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-13	STANDARD ^{1/}
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
Total Xylenes	mg/l	6200 B	< 0.0006	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 0584/68
(Branch 8 : Tank Farm Plant) SAMPLING METHOD : Pneumatic Bladder Pump
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:30-14:46
SAMPLING DATE : 31/03/2025 ANALYTICAL DATE : 02/04/2025
RECEIVED DATE : 01/04/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhot
REPORT DATE : 04/04/2025 FILE CODE : 225096_GW_March
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-13	STANDARD ^{1/}
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insom)

Analyst

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ภาคผนวก ง.5

ใบรับรองผลการตรวจวัดระดับเสียงทั่วไป



Noise Monitoring Result : Community Noise MTR-PTTGC 4


Location : Northern Area of PTTGC Branch 4 Aramatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162C Serial No : G301029
Site Operator : Mr. Siwanon Kulawong


Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	Equivalent Sound Pressure Level (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
14:00 - 15:00	66.5	66.6	64.4	63.9	65.6	66.3	64.7
15:00 - 16:00	66.4	66.5	66.2	64.1	66.1	66.2	64.9
16:00 - 17:00	67.9	67.1	66.5	65.7	66.7	67.2	66.3
17:00 - 18:00	70.3	70.5	70.9	69.4	69.9	70.0	69.6
18:00 - 19:00	70.2	70.5	69.0	67.7	69.8	69.8	67.5
19:00 - 20:00	69.0	67.5	66.5	64.5	67.3	67.9	65.1
20:00 - 21:00	65.8	66.3	64.3	63.1	65.1	66.5	62.9
21:00 - 22:00	61.9	61.6	63.7	60.0	62.5	63.0	61.2
22:00 - 23:00	61.0	61.0	62.5	59.4	59.5	60.3	60.7
23:00 - 00:00	60.8	60.8	62.2	58.7	60.3	61.3	60.8
00:00 - 01:00	61.1	61.6	62.5	59.2	61.1	61.0	60.1
01:00 - 02:00	58.8	58.9	61.0	57.4	59.3	58.8	60.4
02:00 - 03:00	60.1	58.9	61.0	58.0	60.0	60.5	58.7
03:00 - 04:00	60.4	62.8	61.9	58.6	59.4	60.8	59.2
04:00 - 05:00	63.7	61.0	62.0	59.4	61.4	60.9	59.8
05:00 - 06:00	63.5	62.7	63.6	60.8	63.2	63.3	62.1
06:00 - 07:00	69.2	68.3	68.0	67.4	69.9	68.2	69.0
07:00 - 08:00	71.7	69.5	69.0	69.5	72.1	69.6	71.4
08:00 - 09:00	69.9	67.0	66.5	67.1	69.6	66.8	69.3
09:00 - 10:00	66.2	64.4	64.3	65.0	66.7	64.8	66.6
10:00 - 11:00	66.1	65.8	64.7	64.6	66.0	64.6	66.1
11:00 - 12:00	66.5	65.2	64.6	64.6	65.9	64.5	66.4
12:00 - 13:00	65.7	63.9	62.9	64.2	65.9	64.1	65.9
13:00 - 14:00	66.6	65.0	62.3	65.8	66.3	64.8	66.6
Leq(24)*	66.8	66.0	65.5	64.7	66.5	65.8	65.8
Ldn	70.8	70.2	70.4	68.7	70.7	70.0	70.0
Lmax **	99.5	92.8	92.3	93.3	91.4	94.0	91.7
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 14:00-14:00

** Maximum Sound Pressure Level between 14:00-14:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-PTTGC 4

Location : Northern Area of PTTGC Branch 4 Aramatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162C Serial No : G301029
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	L90 (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
14:00 - 15:00	58.3	57.9	54.9	54.6	58.5	59.1	57.5
15:00 - 16:00	58.6	58.1	56.0	55.5	58.7	58.2	57.8
16:00 - 17:00	59.4	59.3	57.8	57.0	59.1	58.8	58.5
17:00 - 18:00	61.4	61.2	59.0	57.8	61.0	60.4	58.2
18:00 - 19:00	60.3	60.6	59.4	58.1	60.4	60.7	58.0
19:00 - 20:00	57.3	57.0	57.4	57.1	57.6	57.9	56.3
20:00 - 21:00	56.2	56.3	55.9	57.4	56.4	56.5	56.4
21:00 - 22:00	55.9	56.0	55.8	56.3	55.7	56.3	56.2
22:00 - 23:00	55.8	56.0	55.7	56.2	55.6	56.0	56.1
23:00 - 00:00	55.5	55.7	56.3	55.9	55.8	56.0	56.0
00:00 - 01:00	55.2	55.5	57.7	55.6	56.0	56.2	55.9
01:00 - 02:00	54.9	55.2	57.9	55.3	56.2	55.8	55.8
02:00 - 03:00	55.2	54.7	57.9	55.2	56.2	56.0	55.1
03:00 - 04:00	55.8	55.0	58.2	55.7	56.1	56.5	55.4
04:00 - 05:00	55.9	55.2	58.2	55.8	56.3	56.3	55.4
05:00 - 06:00	56.2	55.5	58.6	56.3	56.5	56.3	55.5
06:00 - 07:00	59.1	58.4	60.4	59.8	60.9	59.0	58.8
07:00 - 08:00	63.7	61.4	60.8	64.5	63.9	60.8	63.1
08:00 - 09:00	60.0	57.4	57.4	60.7	60.5	57.1	59.1
09:00 - 10:00	58.0	56.2	56.4	58.6	57.7	56.2	57.8
10:00 - 11:00	58.1	55.7	55.9	58.7	57.5	56.5	58.3
11:00 - 12:00	57.9	55.0	55.0	58.6	57.1	56.4	57.5
12:00 - 13:00	57.1	54.2	54.3	57.9	57.0	56.5	57.3
13:00 - 14:00	58.0	54.6	54.1	58.9	58.7	57.5	57.8
L90(avg)*	58.3	57.3	57.5	58.1	58.5	57.7	57.7

Remark : * Average time between 14:00-14:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-PTTGC 4


Location : Southern Area of PTTGC Branch 4 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162B Serial No : G302740
Site Operator : Mr. Siwanon Kulawong


Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 94.0/-0.3 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	Equivalent Sound Pressure Level (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
15:00 - 16:00	54.6	55.9	60.2	59.4	59.6	60.1	59.7
16:00 - 17:00	54.2	55.3	60.4	59.7	60.0	59.8	59.5
17:00 - 18:00	54.1	55.6	59.6	59.5	60.2	61.2	59.7
18:00 - 19:00	54.4	54.7	59.6	59.7	60.1	60.4	59.8
19:00 - 20:00	53.9	54.4	59.7	60.0	59.9	60.2	59.5
20:00 - 21:00	55.0	54.2	59.7	60.3	60.2	59.8	59.5
21:00 - 22:00	55.0	54.7	59.8	60.7	61.3	59.7	59.8
22:00 - 23:00	56.5	54.7	60.1	61.3	61.0	59.8	59.7
23:00 - 00:00	56.5	54.7	60.7	61.5	60.8	59.7	59.9
00:00 - 01:00	57.7	54.1	61.2	61.3	60.5	59.8	59.9
01:00 - 02:00	57.6	56.0	61.3	61.1	60.8	60.4	59.9
02:00 - 03:00	56.6	58.6	61.1	61.0	61.1	60.7	59.9
03:00 - 04:00	56.8	60.2	61.1	61.4	60.8	60.3	60.2
04:00 - 05:00	56.7	58.1	61.6	61.6	60.7	59.8	60.3
05:00 - 06:00	56.1	61.5	61.5	61.6	61.4	60.5	60.3
06:00 - 07:00	56.1	61.7	61.4	61.2	61.7	60.4	60.3
07:00 - 08:00	55.4	61.0	61.7	61.2	61.0	60.2	60.1
08:00 - 09:00	55.5	60.8	61.8	61.2	60.5	59.7	59.4
09:00 - 10:00	55.1	61.6	61.4	60.8	60.8	59.5	59.6
10:00 - 11:00	54.6	61.1	61.9	60.5	61.4	59.7	60.2
11:00 - 12:00	53.0	60.7	60.3	60.2	60.1	59.8	59.8
12:00 - 13:00	53.0	60.3	60.1	59.6	60.2	59.6	60.0
13:00 - 14:00	55.1	61.5	59.8	59.6	60.5	59.7	61.8
14:00 - 15:00	56.9	61.8	59.7	60.1	60.9	60.3	62.1
Leq(24)*	55.6	59.0	60.7	60.7	60.7	60.1	60.1
Ldn	62.9	65.1	67.5	67.6	67.3	66.6	66.5
Lmax **	86.6	89.1	84.4	85.9	94.4	78.4	89.0
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 15:00-15:00

** Maximum Sound Pressure Level between 15:00-15:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-PTTGC 4


Location : Southern Area of PTTGC Branch 4 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162B Serial No : G302740
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 94.0/-0.3 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	L90 (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
15:00 - 16:00	53.2	53.1	58.7	58.1	58.3	58.7	58.4
16:00 - 17:00	53.0	52.8	58.7	58.4	58.3	58.8	58.3
17:00 - 18:00	53.0	53.2	58.4	58.2	59.2	59.4	58.4
18:00 - 19:00	53.0	53.2	58.4	58.5	59.4	59.5	59.0
19:00 - 20:00	53.1	53.5	58.8	59.1	59.2	59.6	58.5
20:00 - 21:00	53.2	53.3	59.1	59.6	59.4	59.2	58.5
21:00 - 22:00	53.8	53.3	59.3	59.9	59.9	58.8	58.6
22:00 - 23:00	54.7	53.9	59.3	60.4	60.3	59.3	58.9
23:00 - 00:00	54.8	53.7	59.8	60.9	60.2	59.3	59.1
00:00 - 01:00	56.0	53.5	60.2	60.6	60.0	59.3	59.1
01:00 - 02:00	56.3	54.4	60.1	60.3	60.1	59.7	59.1
02:00 - 03:00	55.7	54.7	59.8	60.1	60.4	59.8	59.3
03:00 - 04:00	55.3	56.5	59.9	60.4	60.2	59.7	59.4
04:00 - 05:00	55.1	55.8	60.5	60.6	59.7	59.3	59.6
05:00 - 06:00	54.8	57.9	60.2	60.6	60.3	59.6	59.6
06:00 - 07:00	55.1	60.6	60.1	60.3	60.8	59.8	59.7
07:00 - 08:00	53.7	60.4	60.6	60.0	60.3	59.6	59.4
08:00 - 09:00	52.8	59.6	60.7	59.7	59.8	58.7	58.7
09:00 - 10:00	52.9	60.3	60.0	59.6	59.9	58.4	58.7
10:00 - 11:00	53.2	59.2	59.4	59.3	59.3	58.7	58.5
11:00 - 12:00	51.8	58.8	58.9	58.6	59.0	58.9	58.8
12:00 - 13:00	51.6	59.0	58.4	58.5	59.2	58.5	58.8
13:00 - 14:00	53.5	59.2	58.2	58.5	59.0	58.4	58.8
14:00 - 15:00	53.9	59.1	58.3	58.6	59.1	59.0	58.7
L90(avg)*	54.1	57.1	59.5	59.6	59.7	59.2	58.9

Remark : * Average time between 15:00-15:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist



(Miss Preeda Somjai)
Technical Management Team




Noise Monitoring Result : Community Noise
MTR-PTTGC 4

Location : Eastern Area of PTTGC Branch 4 Aromatics				Monitor Period : 06-13 Feb 2025			
SLM Model : Cirrus CR162B				Serial No : G302333			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 97097			
Calibration Ref dB(A) : 94.0				Certified Date : 02 Oct 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 01 Oct 2025			
Cal Sheet No.: CR-515-2025-033							
Time	Equivalent Sound Pressure Level (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
14:00 - 15:00	67.8	67.9	67.2	66.9	67.5	67.5	67.4
15:00 - 16:00	67.6	67.6	67.5	67.2	67.6	67.8	67.4
16:00 - 17:00	67.6	67.7	67.5	67.5	67.7	67.6	67.6
17:00 - 18:00	67.8	68.1	68.0	67.9	67.7	67.9	68.1
18:00 - 19:00	68.1	68.4	68.0	67.7	67.7	68.0	67.7
19:00 - 20:00	68.0	68.3	68.0	67.9	68.0	67.8	67.5
20:00 - 21:00	68.0	68.3	67.8	67.9	67.7	67.5	67.6
21:00 - 22:00	67.9	68.1	67.7	67.7	67.5	67.4	67.6
22:00 - 23:00	67.9	68.1	67.6	67.8	67.6	67.4	67.6
23:00 - 00:00	68.0	68.2	67.7	67.9	67.7	67.5	67.6
00:00 - 01:00	67.7	68.1	67.7	67.9	67.7	67.5	67.7
01:00 - 02:00	67.5	68.2	67.6	67.7	67.7	67.5	67.8
02:00 - 03:00	67.6	68.0	67.6	67.7	67.8	67.5	67.8
03:00 - 04:00	67.5	67.9	67.6	67.7	67.7	67.7	67.8
04:00 - 05:00	67.6	68.1	67.7	67.7	67.8	67.7	67.7
05:00 - 06:00	67.6	68.1	67.7	67.7	67.8	67.7	67.7
06:00 - 07:00	67.9	68.3	67.8	68.1	68.1	67.8	68.0
07:00 - 08:00	68.9	69.0	68.3	68.7	68.7	68.2	69.0
08:00 - 09:00	67.7	67.8	67.7	67.7	67.7	67.3	67.8
09:00 - 10:00	67.5	67.7	67.3	67.3	67.4	67.0	67.4
10:00 - 11:00	67.6	67.7	67.0	67.2	67.3	67.1	67.5
11:00 - 12:00	67.6	67.0	66.9	66.9	67.0	67.2	67.6
12:00 - 13:00	67.4	66.7	66.7	67.1	67.0	67.1	67.5
13:00 - 14:00	67.5	66.8	66.7	67.3	67.3	67.4	67.8
Leq(24)*	67.8	67.9	67.6	67.6	67.7	67.6	67.7
Ldn	74.1	74.5	74.1	74.2	74.2	74.0	74.2
Lmax **	82.5	89.7	85.7	82.3	84.8	84.9	85.2
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 14:00-14:00
** Maximum Sound Pressure Level between 14:00-14:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist



(Miss Preeda Somjai)
Technical Management Team




Noise Monitoring Result : Background Noise
MTR-PTTGC 4

Location : Eastern Area of PITGC Branch 4 Aromatics				Monitor Period : 06-13 Feb 2025			
SLM Model : Cirrus CR162B				Serial No : G302333			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 97097			
Calibration Ref dB(A) : 94.0				Certified Date : 02 Oct 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 01 Oct 2025			
Cal Sheet No.: CR-515-2025-033							
Time	L90 (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
14:00 - 15:00	67.3	67.2	66.6	66.4	66.9	67.0	67.1
15:00 - 16:00	67.1	67.2	66.8	66.7	67.2	67.0	67.0
16:00 - 17:00	67.2	67.3	67.0	67.0	67.3	67.1	67.1
17:00 - 18:00	67.4	67.7	67.4	67.4	67.1	67.3	67.3
18:00 - 19:00	67.6	67.8	67.6	67.5	67.2	67.4	67.3
19:00 - 20:00	67.6	67.9	67.6	67.6	67.4	67.2	67.2
20:00 - 21:00	67.7	67.9	67.5	67.6	67.3	67.1	67.3
21:00 - 22:00	67.6	67.7	67.5	67.5	67.2	67.0	67.3
22:00 - 23:00	67.6	67.8	67.4	67.5	67.4	67.2	67.3
23:00 - 00:00	67.6	67.8	67.4	67.7	67.5	67.3	67.3
00:00 - 01:00	67.3	67.9	67.4	67.5	67.5	67.3	67.4
01:00 - 02:00	67.2	67.9	67.4	67.5	67.5	67.2	67.5
02:00 - 03:00	67.3	67.8	67.3	67.4	67.6	67.3	67.5
03:00 - 04:00	67.2	67.7	67.4	67.4	67.5	67.5	67.5
04:00 - 05:00	67.3	67.8	67.4	67.3	67.6	67.5	67.4
05:00 - 06:00	67.2	67.8	67.4	67.3	67.5	67.4	67.4
06:00 - 07:00	67.3	67.9	67.4	67.5	67.6	67.4	67.5
07:00 - 08:00	67.6	67.9	67.3	67.7	67.5	67.2	67.8
08:00 - 09:00	67.2	67.3	67.0	67.0	67.0	66.7	67.3
09:00 - 10:00	67.0	67.1	66.8	66.7	66.8	66.6	66.7
10:00 - 11:00	67.1	66.7	66.5	66.6	66.6	66.7	66.8
11:00 - 12:00	66.9	66.4	66.4	66.5	66.4	66.8	67.1
12:00 - 13:00	66.8	66.2	66.3	66.7	66.5	66.7	67.0
13:00 - 14:00	66.9	66.3	66.3	66.8	66.8	67.0	67.1
L90(avg)*	67.3	67.5	67.1	67.2	67.2	67.1	67.3

Remark : * Average time between 14:00-14:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-PTTGC 4

Location : Western Area of PTTGC Branch 4 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162B Serial No : G300709
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 94.6/-0.9 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	Equivalent Sound Pressure Level (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
15:00 - 16:00	69.6	68.0	68.2	67.5	68.0	67.7	68.0
16:00 - 17:00	69.7	67.2	68.1	68.3	68.2	68.4	68.0
17:00 - 18:00	69.6	68.5	68.4	68.1	68.1	68.6	68.2
18:00 - 19:00	69.1	68.2	68.3	68.4	68.1	68.0	67.6
19:00 - 20:00	69.0	68.5	68.5	68.7	68.2	67.1	68.3
20:00 - 21:00	69.5	68.5	68.6	68.7	68.1	68.5	68.4
21:00 - 22:00	69.7	68.6	68.4	68.7	68.3	67.8	68.5
22:00 - 23:00	69.2	68.3	68.4	68.9	68.5	68.3	68.8
23:00 - 00:00	69.7	68.2	67.8	68.9	68.6	67.6	67.5
00:00 - 01:00	69.1	68.4	68.5	68.8	67.3	68.5	68.3
01:00 - 02:00	68.1	67.9	68.6	68.6	68.0	68.0	67.4
02:00 - 03:00	68.3	68.6	68.6	68.7	68.6	69.0	68.2
03:00 - 04:00	68.4	68.6	68.8	68.9	68.6	68.8	67.9
04:00 - 05:00	68.4	68.7	68.9	68.4	68.1	68.3	67.9
05:00 - 06:00	68.5	68.6	69.0	68.0	67.7	68.9	68.3
06:00 - 07:00	68.5	68.7	69.0	68.8	68.6	68.1	68.4
07:00 - 08:00	68.6	68.7	68.3	69.1	68.2	68.7	67.6
08:00 - 09:00	68.4	68.3	68.3	68.9	68.7	67.7	67.9
09:00 - 10:00	68.5	68.4	68.2	68.6	68.5	68.6	68.7
10:00 - 11:00	68.4	68.4	68.1	68.5	68.2	68.1	69.2
11:00 - 12:00	68.2	68.2	68.3	68.1	67.9	67.7	67.8
12:00 - 13:00	67.9	68.2	67.7	67.4	68.0	67.6	67.5
13:00 - 14:00	67.8	68.3	68.3	66.9	68.2	67.2	68.0
14:00 - 15:00	67.4	68.2	68.3	67.2	67.4	67.6	67.1
Leq(24)*	68.8	68.4	68.4	68.4	68.2	68.2	68.1
Ldn	75.1	74.8	75.0	75.0	74.6	74.8	74.5
Lmax **	81.3	91.6	84.3	86.8	82.3	84.4	89.8
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 15:00-15:00

** Maximum Sound Pressure Level between 15:00-15:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-PTTGC 4

Location : Western Area of PTTGC Branch 4 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162B Serial No : G300709
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 94.6/-0.9 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	L90 (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
15:00 - 16:00	68.5	67.4	67.4	66.6	67.4	66.5	67.3
16:00 - 17:00	68.8	66.2	67.5	67.6	67.5	67.5	67.3
17:00 - 18:00	68.6	67.7	67.7	67.6	67.4	67.6	66.7
18:00 - 19:00	68.4	67.8	67.8	67.9	67.5	67.4	66.7
19:00 - 20:00	68.4	68.0	67.9	68.1	67.7	66.7	67.8
20:00 - 21:00	68.6	68.0	68.1	68.2	67.8	67.3	67.9
21:00 - 22:00	68.7	68.1	68.0	68.3	67.9	66.8	68.0
22:00 - 23:00	68.5	67.3	67.8	68.3	68.0	67.8	68.2
23:00 - 00:00	68.7	67.2	67.0	68.4	68.1	66.9	66.9
00:00 - 01:00	68.1	67.9	68.1	68.3	66.7	68.0	68.0
01:00 - 02:00	67.6	67.1	68.1	68.2	66.9	67.3	66.9
02:00 - 03:00	67.7	67.7	68.2	68.2	68.0	68.2	67.9
03:00 - 04:00	68.0	68.2	68.3	68.3	68.0	67.8	67.0
04:00 - 05:00	67.9	68.2	68.4	67.5	67.2	67.3	66.9
05:00 - 06:00	68.1	68.2	68.5	67.4	67.0	68.3	68.1
06:00 - 07:00	68.2	68.2	68.4	67.7	67.7	67.3	68.1
07:00 - 08:00	68.2	68.1	67.1	68.5	67.1	68.2	66.8
08:00 - 09:00	68.0	67.8	67.1	68.3	67.7	66.7	66.8
09:00 - 10:00	68.0	67.7	67.1	67.9	67.8	67.7	67.2
10:00 - 11:00	67.8	67.7	67.1	67.7	67.3	67.3	67.7
11:00 - 12:00	67.7	67.6	67.4	67.4	66.9	66.4	67.2
12:00 - 13:00	67.3	67.6	66.8	66.4	67.2	66.4	67.2
13:00 - 14:00	67.1	67.6	67.6	66.2	67.4	66.2	67.1
14:00 - 15:00	66.5	67.6	67.5	66.2	66.2	66.9	66.1
L90(avg)*	68.1	67.7	67.7	67.8	67.5	67.3	67.4

Remark : * Average time between 15:00-15:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-PTTGC 4

Location : Gate of PTTGC Branch 8 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162C Serial No : G300832
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	Equivalent Sound Pressure Level (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
15:00 - 16:00	71.1	68.9	68.0	69.2	69.5	69.4	68.8
16:00 - 17:00	70.0	70.1	69.2	69.2	70.2	69.3	70.7
17:00 - 18:00	70.1	70.2	70.2	70.6	70.8	70.5	69.8
18:00 - 19:00	70.0	70.3	72.1	70.8	70.9	72.1	70.5
19:00 - 20:00	69.3	69.7	71.6	69.2	69.5	71.4	69.1
20:00 - 21:00	69.0	69.8	71.5	69.6	68.8	71.4	68.9
21:00 - 22:00	68.6	69.2	71.1	68.8	68.6	70.9	68.9
22:00 - 23:00	68.7	69.1	69.9	68.7	68.6	70.8	69.2
23:00 - 00:00	68.4	68.7	69.6	68.4	68.0	69.4	68.6
00:00 - 01:00	68.8	68.4	69.4	68.5	68.4	69.4	68.5
01:00 - 02:00	69.1	68.2	69.2	68.6	68.3	69.3	68.7
02:00 - 03:00	69.1	68.0	68.8	68.7	68.3	69.4	68.0
03:00 - 04:00	69.1	68.4	68.5	68.8	68.4	69.7	68.8
04:00 - 05:00	69.2	68.4	69.4	68.3	68.7	69.5	68.7
05:00 - 06:00	69.4	68.6	68.6	69.1	69.4	69.6	69.1
06:00 - 07:00	70.4	69.5	69.7	71.2	71.1	69.4	71.5
07:00 - 08:00	70.4	68.9	69.7	70.9	71.3	69.0	72.0
08:00 - 09:00	70.2	68.4	68.5	70.6	70.3	69.7	70.2
09:00 - 10:00	68.9	68.2	68.6	69.6	69.9	69.3	69.6
10:00 - 11:00	69.1	68.5	68.0	70.0	69.5	69.3	69.1
11:00 - 12:00	69.0	68.5	68.0	69.7	69.7	70.5	69.6
12:00 - 13:00	69.8	68.0	68.9	69.1	69.5	68.5	69.8
13:00 - 14:00	68.8	68.1	68.9	69.0	69.6	67.4	69.6
14:00 - 15:00	69.7	67.9	68.0	69.2	69.3	68.7	69.5
Leq(24)*	69.5	68.9	69.6	69.5	69.5	69.9	69.6
Ldn	75.7	75.1	75.7	75.5	75.5	76.1	75.6
Lmax **	97.6	89.5	95.1	97.3	92.3	106.2	92.2
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 15:00-15:00

** Maximum Sound Pressure Level between 15:00-15:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-PTTGC 4

Location : Gate of PTTGC Branch 8 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162C Serial No : G300832
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	L90 (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
15:00 - 16:00	69.1	67.4	66.5	67.1	67.6	67.0	67.1
16:00 - 17:00	68.2	68.6	67.7	68.0	67.6	67.7	68.1
17:00 - 18:00	68.4	68.7	68.5	67.4	67.9	68.9	67.7
18:00 - 19:00	68.5	69.0	69.4	67.8	68.1	68.4	67.8
19:00 - 20:00	67.6	68.6	69.1	67.4	67.2	68.3	67.4
20:00 - 21:00	67.9	68.9	68.8	67.9	66.1	68.5	67.6
21:00 - 22:00	67.6	68.4	68.5	68.0	67.4	68.4	67.5
22:00 - 23:00	67.8	68.3	68.5	67.7	67.1	68.2	67.6
23:00 - 00:00	67.6	67.7	68.1	67.2	67.2	67.9	66.9
00:00 - 01:00	68.1	67.6	67.9	67.5	67.2	68.1	67.0
01:00 - 02:00	68.7	67.7	67.9	68.2	67.2	67.8	67.5
02:00 - 03:00	68.3	67.2	67.4	68.1	67.6	67.9	67.3
03:00 - 04:00	68.6	68.0	67.1	68.0	67.5	68.1	67.5
04:00 - 05:00	68.7	67.9	67.2	67.6	67.8	67.9	67.7
05:00 - 06:00	68.5	67.5	66.6	67.5	67.1	68.0	67.9
06:00 - 07:00	68.6	67.3	67.3	67.9	68.0	68.1	67.7
07:00 - 08:00	68.4	67.2	67.4	67.7	68.0	67.8	68.8
08:00 - 09:00	67.9	66.7	66.9	67.5	67.8	67.6	67.6
09:00 - 10:00	67.7	66.6	65.3	67.0	67.6	67.6	67.2
10:00 - 11:00	67.8	66.9	65.1	67.3	67.0	67.4	66.7
11:00 - 12:00	67.5	67.1	64.5	66.4	67.4	67.4	66.7
12:00 - 13:00	67.2	66.9	64.3	66.4	66.8	67.5	67.6
13:00 - 14:00	67.7	66.5	66.7	66.8	67.2	67.1	67.2
14:00 - 15:00	67.3	66.6	67.6	66.8	67.1	67.1	67.6
L90(avg)*	68.1	67.7	67.5	67.5	67.4	67.9	67.5

Remark : * Average time between 15:00-15:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-PTTGC 4


Location : Northern Area of PTTGC Branch 8 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162C Serial No : G300841
Site Operator : Mr. Siwanon Kulawong


Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 93.1/0.6 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	Equivalent Sound Pressure Level (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
13:00 - 14:00	66.5	66.7	66.3	66.5	66.6	66.4	66.3
14:00 - 15:00	66.5	66.8	66.3	66.6	67.2	66.5	66.3
15:00 - 16:00	66.9	66.9	66.4	66.6	67.2	66.6	66.3
16:00 - 17:00	66.9	67.1	67.0	67.0	67.1	66.5	66.5
17:00 - 18:00	66.7	67.1	66.6	67.0	67.0	66.7	66.6
18:00 - 19:00	66.6	67.2	66.6	67.0	67.2	66.7	66.7
19:00 - 20:00	66.6	67.2	66.5	67.1	66.9	66.8	66.7
20:00 - 21:00	66.6	67.1	66.6	67.1	66.6	67.1	66.9
21:00 - 22:00	66.5	67.0	66.5	67.0	66.6	66.8	66.8
22:00 - 23:00	66.6	67.0	66.5	67.0	66.7	66.5	66.6
23:00 - 00:00	66.3	66.7	66.3	66.8	66.5	66.5	66.0
00:00 - 01:00	66.8	66.9	66.7	66.8	66.6	66.4	66.4
01:00 - 02:00	66.8	66.6	67.0	66.9	66.8	66.6	66.6
02:00 - 03:00	66.9	66.6	67.0	66.8	67.2	66.5	66.5
03:00 - 04:00	66.9	66.5	67.1	66.9	67.7	66.5	66.5
04:00 - 05:00	66.9	66.5	66.8	66.7	67.5	66.5	66.6
05:00 - 06:00	66.9	66.6	67.0	66.9	67.8	66.6	66.7
06:00 - 07:00	67.2	66.9	67.0	67.0	67.6	66.5	66.8
07:00 - 08:00	67.0	66.6	66.9	66.9	66.7	66.2	66.7
08:00 - 09:00	66.9	66.3	66.6	66.6	66.5	66.1	66.7
09:00 - 10:00	67.2	66.4	66.7	66.5	66.4	66.5	66.9
10:00 - 11:00	67.1	66.4	66.2	66.0	66.4	66.2	66.8
11:00 - 12:00	67.0	66.2	66.2	66.1	66.3	66.4	66.5
12:00 - 13:00	66.6	66.1	66.3	66.4	66.4	66.0	66.5
Leq(24)*	66.8	66.7	66.6	66.8	66.9	66.5	66.6
Ldn	73.2	73.1	73.2	73.2	73.5	72.9	73.0
Lmax **	81.2	79.2	79.0	78.5	79.4	79.2	77.6
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-PTTGC 4


Location : Northern Area of PTTGC Branch 8 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162C Serial No : G300841
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 93.1/0.6 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	L90 (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
13:00 - 14:00	65.9	66.0	65.4	65.8	65.8	65.8	65.6
14:00 - 15:00	65.7	66.0	65.5	65.9	66.1	65.9	65.6
15:00 - 16:00	66.0	66.1	65.5	65.9	66.4	66.0	65.6
16:00 - 17:00	66.1	66.4	65.7	66.3	66.3	66.0	65.8
17:00 - 18:00	65.9	66.4	65.8	66.3	66.1	66.1	65.9
18:00 - 19:00	66.0	66.4	65.9	66.4	66.3	66.1	66.0
19:00 - 20:00	65.9	66.5	65.8	66.5	66.2	65.9	65.9
20:00 - 21:00	65.9	66.5	65.9	66.5	66.0	66.3	66.1
21:00 - 22:00	65.9	66.5	65.9	66.5	66.1	66.2	66.1
22:00 - 23:00	65.9	66.4	65.9	66.6	66.2	66.0	65.9
23:00 - 00:00	65.4	65.5	65.4	65.5	65.7	66.0	65.1
00:00 - 01:00	66.0	65.8	65.7	65.8	65.6	66.0	65.6
01:00 - 02:00	66.1	65.9	66.1	66.3	66.3	66.0	66.0
02:00 - 03:00	66.2	65.8	66.1	66.3	66.6	66.1	65.9
03:00 - 04:00	66.3	65.9	66.2	66.3	67.3	66.1	65.9
04:00 - 05:00	66.3	65.8	66.2	66.2	67.0	66.1	66.1
05:00 - 06:00	66.3	65.9	66.4	66.3	67.4	66.2	66.3
06:00 - 07:00	66.5	66.0	66.4	66.4	67.1	66.1	66.4
07:00 - 08:00	66.2	65.8	66.2	66.1	66.2	65.5	66.1
08:00 - 09:00	66.1	65.5	65.9	65.8	65.9	65.5	65.9
09:00 - 10:00	66.5	65.3	65.8	65.7	65.8	65.4	66.1
10:00 - 11:00	66.3	65.3	65.5	65.2	65.6	65.3	66.0
11:00 - 12:00	66.1	65.3	65.5	65.1	65.5	65.4	65.9
12:00 - 13:00	65.9	65.3	65.6	65.5	65.7	65.4	65.9
L90(avg)*	66.1	65.9	65.9	66.1	66.2	65.9	65.9

Remark : * Average time between 13:00-13:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-PTTGC 4

Location : Southern Area of PTTGC Branch 8 Aromatics				Monitor Period : 06-13 Feb 2025			
SLM Model : Cirrus CR162C				Serial No : G301065			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 97097			
Calibration Ref dB(A) : 94.0				Certified Date : 02 Oct 2024			
SLM Reading / Adjust dB(A) : 94.0/-0.3				Expire Date : 01 Oct 2025			
Cal Sheet No.: CR-515-2025-033							
Time	Equivalent Sound Pressure Level (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
13:00 - 14:00	67.4	59.7	54.7	52.8	54.6	57.0	54.0
14:00 - 15:00	67.1	62.3	53.7	53.1	58.2	55.2	53.9
15:00 - 16:00	67.2	60.0	54.9	53.4	56.5	54.7	53.9
16:00 - 17:00	58.2	55.4	56.4	53.9	56.9	54.6	63.0
17:00 - 18:00	55.6	55.7	55.6	54.2	54.8	54.9	54.3
18:00 - 19:00	55.3	54.7	54.2	54.2	55.2	54.6	53.7
19:00 - 20:00	54.2	54.3	54.2	54.1	53.7	53.3	53.2
20:00 - 21:00	53.8	54.0	53.0	56.5	53.1	53.6	53.1
21:00 - 22:00	53.5	53.8	54.3	56.5	52.4	53.4	53.0
22:00 - 23:00	53.2	54.4	54.6	56.3	52.3	53.7	53.5
23:00 - 00:00	52.4	53.3	53.2	56.2	51.9	53.8	53.5
00:00 - 01:00	52.8	53.2	54.9	57.7	52.1	54.0	53.4
01:00 - 02:00	53.2	52.4	54.8	58.7	52.9	53.3	52.9
02:00 - 03:00	53.5	52.0	54.7	58.1	52.6	53.0	53.0
03:00 - 04:00	54.2	52.1	55.0	58.6	52.2	55.0	53.4
04:00 - 05:00	54.0	52.8	56.2	55.7	52.5	53.8	53.8
05:00 - 06:00	56.8	57.0	56.0	54.9	53.3	54.8	54.2
06:00 - 07:00	57.3	55.1	56.0	55.2	55.5	55.0	55.8
07:00 - 08:00	55.7	54.5	55.0	55.4	55.2	55.4	56.0
08:00 - 09:00	56.4	54.3	54.3	55.5	55.6	53.3	54.3
09:00 - 10:00	55.4	54.3	54.4	59.6	58.3	60.0	55.0
10:00 - 11:00	55.3	55.4	53.3	57.6	59.0	54.3	55.0
11:00 - 12:00	61.8	53.8	52.4	57.5	57.8	64.6	54.2
12:00 - 13:00	61.3	55.6	52.7	53.7	59.0	65.8	54.0
Leq(24)*	60.2	55.9	54.6	56.2	55.5	57.5	55.1
Ldn	63.0	60.9	61.4	63.3	60.1	61.6	60.6
Lmax **	90.4	85.9	76.7	85.5	90.9	89.6	92.9
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-PTTGC 4

Location : Southern Area of PTTGC Branch 8 Aromatics				Monitor Period : 06-13 Feb 2025			
SLM Model : Cirrus CR162C				Serial No : G301065			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 97097			
Calibration Ref dB(A) : 94.0				Certified Date : 02 Oct 2024			
SLM Reading / Adjust dB(A) : 94.0/-0.3				Expire Date : 01 Oct 2025			
Cal Sheet No.: CR-515-2025-033							
Time	L90 (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
13:00 - 14:00	64.0	53.7	52.2	51.6	52.3	53.4	52.5
14:00 - 15:00	64.5	56.4	52.6	51.5	53.3	53.4	52.4
15:00 - 16:00	64.7	54.0	52.7	51.9	53.3	53.2	52.8
16:00 - 17:00	54.3	53.8	53.7	53.0	53.3	53.4	53.4
17:00 - 18:00	54.4	53.8	53.4	52.9	53.1	53.5	52.8
18:00 - 19:00	53.9	53.4	53.0	53.1	53.3	52.8	52.5
19:00 - 20:00	53.2	53.3	52.8	53.3	52.8	52.5	52.3
20:00 - 21:00	52.9	53.1	51.9	55.0	52.3	52.7	52.4
21:00 - 22:00	53.0	53.2	51.8	55.2	51.9	52.9	52.5
22:00 - 23:00	52.7	53.2	52.0	55.5	51.5	52.9	52.9
23:00 - 00:00	51.9	52.8	52.7	55.3	51.5	53.2	52.8
00:00 - 01:00	52.3	52.7	54.0	55.5	51.5	53.6	52.7
01:00 - 02:00	52.6	51.5	54.1	57.0	52.2	52.5	52.5
02:00 - 03:00	52.9	51.4	54.2	56.6	52.2	52.3	52.4
03:00 - 04:00	53.2	51.6	54.3	56.9	51.8	53.4	52.6
04:00 - 05:00	53.0	52.0	55.1	54.3	51.9	53.0	53.0
05:00 - 06:00	53.3	52.3	54.8	53.8	52.4	53.3	53.0
06:00 - 07:00	54.6	52.8	54.4	54.3	53.6	53.8	54.1
07:00 - 08:00	54.2	52.9	53.9	54.0	53.0	52.5	54.1
08:00 - 09:00	53.7	52.8	53.1	53.5	52.7	51.0	52.7
09:00 - 10:00	53.5	52.4	52.7	54.5	52.6	51.0	52.4
10:00 - 11:00	53.3	52.4	52.3	52.5	52.9	51.3	52.2
11:00 - 12:00	53.5	52.3	51.1	51.5	51.6	51.6	52.4
12:00 - 13:00	52.7	52.0	51.2	52.0	52.4	52.5	52.4
L90(avg)*	57.3	53.0	53.2	54.3	52.5	52.8	52.8

Remark : * Average time between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-PTTGC 4

Location : Western Area of PTTGC Branch 8 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162B Serial No : G302741
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 93.6/0.1 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	Equivalent Sound Pressure Level (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
13:00 - 14:00	67.2	66.1	66.9	66.1	66.2	66.7	66.6
14:00 - 15:00	67.3	66.2	66.6	66.1	66.5	66.7	66.5
15:00 - 16:00	67.3	66.1	68.3	66.2	66.5	66.6	66.4
16:00 - 17:00	67.1	66.3	68.0	66.6	66.5	66.5	66.6
17:00 - 18:00	66.9	66.5	66.9	66.8	66.8	66.5	66.6
18:00 - 19:00	66.8	66.5	66.9	67.0	67.0	66.8	66.6
19:00 - 20:00	66.7	66.6	66.7	67.2	67.0	66.8	66.4
20:00 - 21:00	66.7	66.5	66.6	68.8	66.8	66.9	66.3
21:00 - 22:00	66.6	66.6	66.8	68.6	66.7	66.8	66.3
22:00 - 23:00	66.5	66.6	66.6	68.2	66.7	66.7	66.3
23:00 - 00:00	66.3	66.7	66.7	68.4	66.6	66.7	66.3
00:00 - 01:00	66.6	66.7	67.1	68.5	66.5	66.8	66.7
01:00 - 02:00	67.1	66.6	67.2	68.7	66.5	66.7	66.5
02:00 - 03:00	66.8	66.6	67.0	68.5	66.5	66.6	66.8
03:00 - 04:00	66.7	66.6	67.2	68.7	66.4	66.7	66.7
04:00 - 05:00	66.7	66.4	67.2	67.7	66.4	66.7	66.7
05:00 - 06:00	66.3	66.5	67.2	67.0	66.6	66.7	66.8
06:00 - 07:00	66.0	66.4	67.1	66.6	66.5	66.6	66.7
07:00 - 08:00	65.7	66.3	67.0	66.6	66.4	66.6	66.8
08:00 - 09:00	65.8	66.2	66.9	66.5	66.4	66.6	66.1
09:00 - 10:00	66.0	65.4	66.8	66.5	66.4	66.4	65.6
10:00 - 11:00	66.0	66.4	66.5	66.3	66.3	66.2	65.8
11:00 - 12:00	66.0	66.5	66.2	66.3	66.4	66.9	66.0
12:00 - 13:00	66.1	66.5	66.1	66.2	66.4	66.2	66.1
Leq(24)*	66.6	66.4	67.0	67.4	66.5	66.6	66.4
Ldn	73.0	72.9	73.4	74.3	72.9	73.1	73.0
Lmax **	78.1	74.9	84.7	76.6	71.5	82.3	73.3
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-PTTGC 4

Location : Western Area of PTTGC Branch 8 Aromatics Monitor Period : 06-13 Feb 2025
SLM Model : Cirrus CR162B Serial No : G302741
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 02 Oct 2024
SLM Reading / Adjust dB(A) : 93.6/0.1 Expire Date : 01 Oct 2025
Cal Sheet No.: CR-515-2025-033

Time	L90 (dB(A))						
	06-07 Feb 2025	07-08 Feb 2025	08-09 Feb 2025	09-10 Feb 2025	10-11 Feb 2025	11-12 Feb 2025	12-13 Feb 2025
13:00 - 14:00	66.8	65.7	66.2	65.8	65.8	66.2	66.2
14:00 - 15:00	66.9	65.7	66.2	65.7	66.1	66.3	66.1
15:00 - 16:00	67.0	65.8	66.3	65.8	66.2	66.3	66.1
16:00 - 17:00	66.7	66.0	66.5	66.2	66.2	66.1	66.2
17:00 - 18:00	66.6	66.2	66.6	66.3	66.5	66.2	66.3
18:00 - 19:00	66.6	66.2	66.6	66.5	66.7	66.3	66.3
19:00 - 20:00	66.5	66.3	66.4	66.8	66.7	66.6	66.1
20:00 - 21:00	66.5	66.2	66.4	68.5	66.5	66.6	66.0
21:00 - 22:00	66.3	66.3	66.4	68.0	66.5	66.5	66.0
22:00 - 23:00	66.2	66.3	66.4	68.0	66.4	66.5	66.0
23:00 - 00:00	66.0	66.3	66.5	68.0	66.3	66.5	66.0
00:00 - 01:00	66.3	66.4	66.8	68.0	66.3	66.6	66.4
01:00 - 02:00	66.9	66.3	66.8	68.2	66.3	66.5	66.2
02:00 - 03:00	66.6	66.4	66.8	68.1	66.3	66.4	66.5
03:00 - 04:00	66.4	66.4	66.9	68.3	66.2	66.6	66.4
04:00 - 05:00	66.4	66.2	66.9	67.2	66.2	66.5	66.4
05:00 - 06:00	66.0	66.2	66.9	66.5	66.3	66.5	66.6
06:00 - 07:00	65.7	66.1	66.8	66.4	66.2	66.4	66.5
07:00 - 08:00	65.5	66.0	66.7	66.3	66.2	66.4	66.5
08:00 - 09:00	65.5	65.2	66.6	66.2	66.1	66.3	65.4
09:00 - 10:00	65.7	64.9	66.4	66.1	66.1	66.1	65.3
10:00 - 11:00	65.7	66.1	66.2	66.0	66.0	65.9	65.5
11:00 - 12:00	65.7	66.2	65.8	65.9	66.1	65.9	65.7
12:00 - 13:00	65.8	66.1	65.7	65.8	66.0	65.9	65.7
L90(avg)*	66.3	66.1	66.5	67.0	66.3	66.3	66.1

Remark : * Average time between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

ภาคผนวก ง.6

ใบรับรองผลการตรวจวัดระดับเสียงที่ถูกรับ
เฉลี่ยตลอดระยะเวลาการทำงาน (TWA)



บริษัท ซีคอต จำกัด
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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096/MON1H/Noise Dose
	(Aromatics 1 Plant)		
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 05/03/2025	CALIBRATOR TYPE	: Pulsar Model 22R
MEASUREMENT LOCATION	: PTTGC4	SERIAL NO.	: 79781
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

USER ID	AREA/PLANT	TIME	SOUND PRESSURE LEVEL (dB(A))		
			%DOSE	TWA (12-hr)	STANDARD *
ID : 26002469	Reformer 1	08:46-19.00	26.7	77.5	83.0
ID : 26008131	Reformer 1	08:47-19.00	0.5	59.9	83.0
ID : 26001221	Reformer 2	08:36-19.00	69.5	81.6	83.0
ID : 26002441	Reformer 2	08:46-19.00	54.8	80.6	83.0
ID : 26001320	Utility	08:36-19.00	8.0	72.3	83.0
ID : 26006934	WWT	08:35-19.00	2.3	66.9	83.0

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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 4. TWA means Time Weighted Average.



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NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096/MON1H/Noise Dose
	(Aromatics 1 Plant)		
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 06/03/2025	CALIBRATOR TYPE	: Pulsar Model 22R
MEASUREMENT LOCATION	: PTTGC4	SERIAL NO.	: 79781
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

USER ID	AREA/PLANT	TIME	SOUND PRESSURE LEVEL (dB(A))		
			%DOSE	TWA (12-hr)	STANDARD *
ID : 26001031	Aromatics 1	08:42-19.00	60.3	81.0	83.0
ID : 26001118	Aromatics 1	08:42-19.00	76.1	82.0	83.0
ID : 26002116	Aromatics 1	08:41-19.00	41.9	79.4	83.0
ID : 26001357	Aromatics 2	08:42-19.00	92.2	82.8	83.0
ID : 26002428	Aromatics 2	08:42-19.00	88.4	82.7	83.0
ID : 26006582	Aromatics 3	08:41-19.00	48.1	80.0	83.0

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096/MON1H/Noise Dose
	(Aromatics 1 Plant)		
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 19/03/2025	CALIBRATOR TYPE	: Cirrus RC:110A
MEASUREMENT LOCATION	: PTTGC4	SERIAL NO.	: 95167
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

OPERATOR ID	RESPONSIBILITY/AREA	TIME	SOUND PRESSURE LEVEL (dB(A))		
			%DOSE	TWA (12-hr)	STANDARD *
ID : 26002427	Unit 390	08:20-19:00	25.3	77.2	83.0


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team

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NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 225096/MON1H/Noise Dose
	(Aromatics 1 Plant)		
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 05/03/2025	CALIBRATOR TYPE	: Pulsar Model 22R
MEASUREMENT LOCATION	: PTTGC4	SERIAL NO.	: 79781
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

USER ID	AREA/PLANT	TIME	SOUND PRESSURE LEVEL (dB(A))		
			%DOSE	TWA (8-hr)	STANDARD *
ID : 26002469	Reformer 1	08:46-19:00	26.7	79.3	85.0
ID : 26008131	Reformer 1	08:47-19:00	0.5	61.7	85.0
ID : 26001221	Reformer 2	08:36-19:00	69.5	83.4	85.0
ID : 26002441	Reformer 2	08:46-19:00	54.8	82.4	85.0
ID : 26001320	Utility	08:36-19:00	8.0	74.1	85.0
ID : 98002836	Workshop	08:30-17:00	5.3	72.3	85.0
ID : 26006934	WWT	08:35-19:00	2.3	68.7	85.0


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team

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NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: PTT Global Chemical Public Co., Ltd. (Aromatics 1 Plant)	REFERENCE NO.	: 225096/MON1H/Noise Dose
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 06/03/2025	CALIBRATOR TYPE	: Pulsar Model 22R
MEASUREMENT LOCATION	: PTTGC4	SERIAL NO.	: 79781
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

USER ID	AREA/PLANT	TIME	SOUND PRESSURE LEVEL (dB(A))		
			%DOSE	TWA (8-hr)	STANDARD *
ID : 26001031	Aromatics 1	08:42-19:00	60.3	82.8	85.0
ID : 26001118	Aromatics 1	08:42-19:00	76.1	83.8	85.0
ID : 26002116	Aromatics 1	08:41-19:00	41.9	81.2	85.0
ID : 26001357	Aromatics 2	08:42-19:00	92.2	84.6	85.0
ID : 26002428	Aromatics 2	08:42-19:00	88.4	84.5	85.0
ID : 26006582	Aromatics 3	08:41-19:00	48.1	81.8	85.0

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: PTT Global Chemical Public Co., Ltd. (Aromatics 1 Plant)	REFERENCE NO.	: 225096/MON1H/Noise Dose
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 19/03/2025	CALIBRATOR TYPE	: Cirrus RC:110A
MEASUREMENT LOCATION	: PTTGC4	SERIAL NO.	: 95167
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

OPERATOR ID	RESPONSIBILITY/AREA	TIME	SOUND PRESSURE LEVEL (dB(A))		
			%DOSE	TWA (8-hr)	STANDARD *
ID : 26002427	Unit 390	08:20-19:00	25.3	79.0	85.0

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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ภาคผนวก ง.7

ใบรับรองผลการตรวจวัดระดับเสียงภายในสถานประกอบการ



Noise Monitoring Result : Working Noise

MTR-PTTGC4


LOCATION	: Gate House B	MEASUREMENT DATE	: 05-03-2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820722
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2502-0243-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	05-03-2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00	69.5	
08:00 - 09:00	69.5	
09:00 - 10:00	69.3	
10:00 - 11:00	69.4	
11:00 - 12:00	69.3	
12:00 - 13:00	69.4	
13:00 - 14:00	69.6	
14:00 - 15:00	69.5	
15:00 - 16:00		
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	69.4	
Lmax	82.0	
Standard*	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-PTTGC4


LOCATION	: Gate House B	MEASUREMENT DATE	: 05-03-2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820722
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2502-0243-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	05-03-2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00	69.5	
08:00 - 09:00	69.5	
09:00 - 10:00	69.3	
10:00 - 11:00	69.4	
11:00 - 12:00	69.3	
12:00 - 13:00	69.4	
13:00 - 14:00	69.6	
14:00 - 15:00	69.5	
15:00 - 16:00	69.5	
16:00 - 17:00	69.5	
17:00 - 18:00	69.7	
18:00 - 19:00	69.4	
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	69.5	
Lmax	82.0	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-PTTGC4


LOCATION	: Pump Station	MEASUREMENT DATE	: 06-03-2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820725
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2502-0243-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-03-2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	84.9	
10:00 - 11:00	84.8	
11:00 - 12:00	84.9	
12:00 - 13:00	84.9	
13:00 - 14:00	84.8	
14:00 - 15:00	84.9	
15:00 - 16:00	84.9	
16:00 - 17:00	84.8	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	84.9	
Lmax	91.5	
Standard*	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-PTTGC4


LOCATION	: Pump Station	MEASUREMENT DATE	: 06-03-2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820725
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2502-0243-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-03-2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	84.9	
10:00 - 11:00	84.8	
11:00 - 12:00	84.9	
12:00 - 13:00	84.9	
13:00 - 14:00	84.8	
14:00 - 15:00	84.9	
15:00 - 16:00	84.9	
16:00 - 17:00	84.8	
17:00 - 18:00	84.9	
18:00 - 19:00	84.8	
19:00 - 20:00	84.9	
20:00 - 21:00	84.9	
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	84.9	
Lmax	102.8	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-PTTGC4


LOCATION	: Truck Loading I-17	MEASUREMENT DATE	: 06-03-2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820723
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2502-0243-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-03-2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	67.6	
10:00 - 11:00	67.3	
11:00 - 12:00	63.4	
12:00 - 13:00	64.2	
13:00 - 14:00	63.3	
14:00 - 15:00	63.4	
15:00 - 16:00	63.7	
16:00 - 17:00	64.1	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	65.0	
Lmax	80.4	
Standard*	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-PTTGC4


LOCATION	: Truck Loading I-17	MEASUREMENT DATE	: 06-03-2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820723
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2502-0243-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-03-2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	67.6	
10:00 - 11:00	67.3	
11:00 - 12:00	63.4	
12:00 - 13:00	64.2	
13:00 - 14:00	63.3	
14:00 - 15:00	63.4	
15:00 - 16:00	63.7	
16:00 - 17:00	64.1	
17:00 - 18:00	66.4	
18:00 - 19:00	71.0	
19:00 - 20:00	65.7	
20:00 - 21:00	66.2	
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	66.2	
Lmax	94.8	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team

ภาคผนวก ง.8

ใบรับรองผลการตรวจวัดคุณภาพอากาศภายในสถานประกอบการ

คุณภาพอากาศภายในสถานประกอบการแบบติดตั้งกับพื้นที่



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0447/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 06/03/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong , Rayong 21150	Received Date	: 11/03/2025
		Test Date	: 12/03/2025
Tel/Fax	: 0-3897-2370 / 0-3897-4111	Report Date	: 20/03/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Loading Area ซ้ำชาติ 8	06/03/2025 09:40-17:40	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
		Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
		Cyclohexane	NIOSH 1500/GC FID	< 0.01	ND	300

Analyst By: Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By: Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0953/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 21/05/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong , Rayong 21150	Received Date	: 26/05/2025
		Test Date	: 26/05/2025
Tel/Fax	: 0-3897-2370 / 0-3897-4111	Report Date	: 02/06/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Loading Area ซ้ำชาติ 8	21/05/2025 10:05-14:05	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
		Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
		Cyclohexane	NIOSH 1500/GC FID	< 0.01	ND	300

Analyst By: Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By: Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
Technical Management Team

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คุณภาพอากาศภายในสถานประกอบการแบบติดตัวบุคคล



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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0448/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 05/03/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong , Rayong 21150	Received Date	: 11/03/2025
		Test Date	: 13/03/2025
Tel/Fax	: 0-3897-2370 / 0-3897-4111	Report Date	: 19/03/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26002469	05/03/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Reformer 1	09:05-17:05	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26001221	05/03/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Reformer 2	09:05-17:05	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By : Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0448/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 06/03/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong , Rayong 21150	Received Date	: 11/03/2025
		Test Date	: 13/03/2025
Tel/Fax	: 0-3897-2370 / 0-3897-4111	Report Date	: 19/03/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26001031	06/03/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatics 1	09:05-17:05	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26001357	06/03/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatics 2	09:05-17:05	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26006582	06/03/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatics 3, Unit 390	09:05-17:05	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By : Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
Technical Management Team

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0448/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 05/03/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong , Rayong 21150	Received Date	: 11/03/2025
		Test Date	: 13/03/2025
Tel/Fax	: 0-3897-2370 / 0-3897-4111	Report Date	: 19/03/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID, 26006934	05/03/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area :Water Treatment	09:00-17:00	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100



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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0448/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 06/03/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong , Rayong 21150	Received Date	: 11/03/2025
		Test Date	: 13/03/2025
Tel/Fax	: 0-3897-2370 / 0-3897-4111	Report Date	: 19/03/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID, 26002083	06/03/2025	Cyclohexane	ISO 16200-2/GC FID	< 0.04	ND	300
Area :Cyclohexane	09:10-17:10					

Analyst By : Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpeth
(Miss Narisa Poowasanpetch)
Technical Management Team

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Analyst By : Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpeth
(Miss Narisa Poowasanpetch)
Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0448/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 06/03/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong , Rayong 21150	Received Date	: 11/03/2025
		Test Date	: 13/03/2025
Tel/Fax	: 0-3897-2370 / 0-3897-4111	Report Date	: 19/03/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26006582	06/03/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Unit 390	09:05-17:05	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By :

Sudaporn S.

(Miss Sudaporn Soonthorn)

Approved By :

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0954/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 21/05/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong , Rayong 21150	Received Date	: 26/05/2025
		Test Date	: 29-30/05/2025
Tel/Fax	: 0-3897-2370 / 0-3897-4111	Report Date	: 06/06/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26002414	21/05/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Reformer 1	10:25-14:25	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002441	21/05/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Reformer 2	10:26-14:26	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By :

Sudaporn S.

(Miss Sudaporn Soonthorn)

Approved By :

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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3. Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).
4. ND = non-detectable.



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SECOT CO., LTD.

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ANALYSIS/TEST REPORT

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For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 21/05/2025
Address	: No.4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong , Rayong 21150	Received Date	: 26/05/2025
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SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26009138	21/05/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatics 1	10:45-14:45	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26001495	21/05/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatics 2	10:32-14:32	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002468	21/05/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatics 3	10:33-14:33	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By : Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0954/68
For	: PTT Global Chemical Public Co., Ltd. (Branch 4 :Aromatics 1 Plant)	Sampling Date	: 21/05/2025
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SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26001154	21/05/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Water Treatment	10:50-14:50	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By : Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
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SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26002083	21/05/2025	Cyclohexane	ISO 16200-2/GC FID	< 0.04	ND	300
Area :Cyclohexane	10:35-14:35					

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SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26001467	21/05/2025	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Unit 390	10:35-14:35	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By : Sudaporn S.
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpetch
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