

คุณภาพอากาศในบรรยากาศ (VOCs by Canister)

**Report No. : 2024-500001912 / 002-1 (Page 1 of 4)****Issued date : August 7, 2024**

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 **E-mail:** [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** July 15-16, 2024
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	1.46	2.51	-	-
2. Dichlorodifluoromethane (F-12)	0.32	1.58	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.50	1.02	-	-
6. Isobutene	0.74	1.70	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	1.96	3.54	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	1.94	5.72	-	-
15. Ethanol	2.05	3.86	-	-
16. Isoprene	0.24	0.67	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.88	4.47	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.24	0.83	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Technical Manager

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.56	1.97	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.22	0.76	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.30	0.96	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.88	3.32	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.08	0.37	-	-
63. Ethylbenzene	0.38	1.65	-	-
64. p,m-Xylene	0.36	1.56	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.12	9.03	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	2.86	6.21	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001912 / 002-2 (Page 1 of 4)

Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	2.83	4.87	-	-
2. Dichlorodifluoromethane (F-12)	0.36	1.78	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.52	1.06	-	-
6. Isobutene	0.84	1.92	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.92	2.02	5.3	-
9. Acetaldehyde	3.03	5.46	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	1.03	4.00	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	0.80	2.36	-	-
15. Ethanol	1.50	2.83	-	-
16. Isoprene	0.24	0.67	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.03	4.82	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.16	0.56	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001912 / 002-2 (Page 2 of 4)

Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs (Cont.)				
29. Hexane	0.40	1.41	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	1.35	4.31	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	0.40	1.21	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	0.48	1.73	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.59	5.99	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	0.46	2.00	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.11	8.99	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2024-500001912 / 002-2 (Page 4 of 4)

Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS :

4/2, 1-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING LOCATION : New CO Plant of BTC

LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : July 15-16, 2024

SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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IE 000158

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Report No. : 2024-500001912 / 002-3 (Page 1 of 4)

Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

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Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	1.20	2.07	-	-
2. Dichlorodifluoromethane (F-12)	0.28	1.39	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.56	1.15	-	-
6. Isobutene	0.36	0.82	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.74	1.64	5.3	-
9. Acetaldehyde	1.88	3.39	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	0.56	1.65	-	-
15. Ethanol	4.60	8.67	-	-
16. Isoprene	0.28	0.78	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.24	5.32	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	0.68	2.12	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.52	1.81	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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SGS (THAILAND) LIMITED

Technical Manager

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IE 000159

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Report No. : 2024-500001912 / 002-3 (Page 2 of 4)

Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax: 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
29. Hexane	0.60	2.11	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	0.08	0.39	57	-
39. Cyclohexane	0.16	0.55	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.24	0.77	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.00	3.77	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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Report No. : 2024-500001912 / 002-3 (Page 3 of 4)

Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS :

4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.12	0.55	-	-
63. Ethylbenzene	0.40	1.74	-	-
64. p,m-Xylene	0.40	1.74	-	-
65. o-Xylene	0.08	0.35	-	-
66. Styrene	0.72	3.07	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	2.56	5.56	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

SGS (THAILAND) LIMITED

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IE 000161

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Report No. : 2024-500001912 / 002-3 (Page 4 of 4)

Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : July 15-16, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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[REDACTED]
Technical Manager

SGS (THAILAND) LIMITED



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IE 000162

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Report No. : 2024-500001912 / 002-5 (Page 1 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : July 15-16, 2024
MEASURED BY :

Location	TIME	July 15-16, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	10:00-11:00	W	1.3
	11:00-12:00	W	1.8
	12:00-13:00	NE	1.3
	13:00-14:00	N	2.2
	14:00-15:00	NE	1.8
	15:00-16:00	NE	0.9
	16:00-17:00	-	CALM
	17:00-18:00	W	0.9
	18:00-19:00	WNW	1.3
	19:00-20:00	WNW	1.3
	20:00-21:00	W	0.9
	21:00-22:00	W	1.3
	22:00-23:00	W	2.2
	23:00-00:00	WNW	1.8
	00:00-01:00	WNW	2.2
	01:00-02:00	WNW	3.1
	02:00-03:00	W	2.2
	03:00-04:00	W	2.7
	04:00-05:00	WNW	2.2
	05:00-06:00	WNW	2.7
	06:00-07:00	WNW	2.2
	07:00-08:00	WNW	2.7
	08:00-09:00	WNW	3.1
	09:00-10:00	WNW	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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SGS (THAILAND) LIMITED



Technical Manager

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Report No. : 2024-500001912 / 002-5 (Page 2 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : July 15-16, 2024
MEASURED BY :

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	4.17	-	-
NNE	-	-	-	-	-
NE	4.17	8.33	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	8.33	12.50	12.50	-	-
WNW	-	12.50	25.00	8.33	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	4.17				

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SGS (THAILAND) LIMITED



Technical Manager

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IE 000168

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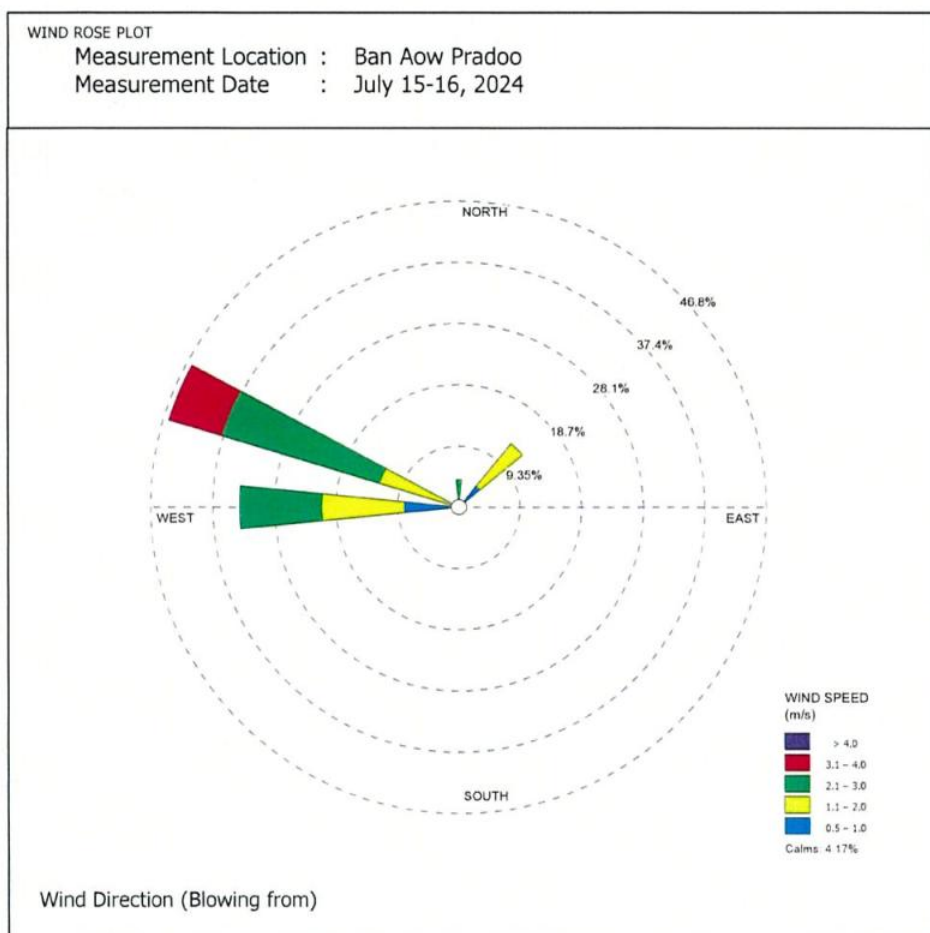
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Report No. : 2024-500001912 / 002-5 (Page 3 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : July 15-16, 2024
MEASURED BY : [REDACTED]



SGS (THAILAND) LIMITED

Technical Manager

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Report No. : 2024-500001912 / 002-6 (Page 1 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : July 15-16, 2024
MEASURED BY : [REDACTED]

Location	TIME	July 15-16, 2024	
		WD	WS (m/s)
New CO Plant of BTC	09:00-10:00	WSW	2.7
	10:00-11:00	SW	2.2
	11:00-12:00	WSW	2.2
	12:00-13:00	NW	1.3
	13:00-14:00	NW	1.3
	14:00-15:00	ENE	1.3
	15:00-16:00	NE	0.9
	16:00-17:00	N	1.3
	17:00-18:00	SW	2.7
	18:00-19:00	SW	2.2
	19:00-20:00	SW	1.8
	20:00-21:00	WSW	1.8
	21:00-22:00	WSW	1.8
	22:00-23:00	SW	3.1
	23:00-00:00	W	2.2
	00:00-01:00	W	2.7
	01:00-02:00	SW	3.6
	02:00-03:00	SW	3.6
	03:00-04:00	SW	3.1
	04:00-05:00	SW	3.6
	05:00-06:00	WSW	3.1
	06:00-07:00	SW	3.1
	07:00-08:00	WSW	2.7
	08:00-09:00	WSW	2.7

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction

SGS (THAILAND) LIMITED



Technical Manager

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Report No. : 2024-500001912 / 002-6 (Page 2 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : July 15-16, 2024
MEASURED BY : [REDACTED]

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	4.17	-	-	-
NNE	-	-	-	-	-
NE	4.17	-	-	-	-
ENE	-	4.17	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	4.17	12.50	25.00	-
WSW	-	8.33	16.67	4.17	-
W	-	-	8.33	-	-
WNW	-	-	-	-	-
NW	-	8.33	-	-	-
NNW	-	-	-	-	-
CALM	0.00				



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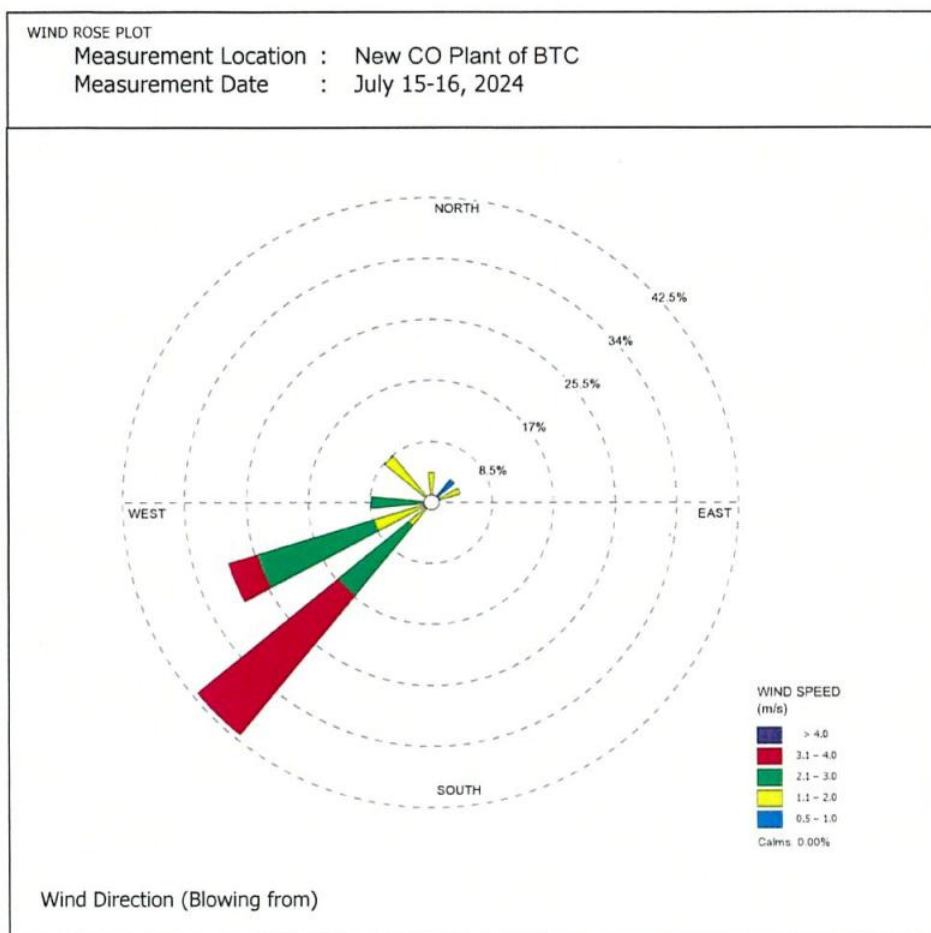
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Report No. : 2024-500001912 / 002-6 (Page 3 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : July 15-16, 2024
MEASURED BY : [REDACTED]



Technical Manager

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Report No. : 2024-500001912 / 002-7 (Page 1 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : July 15-16, 2024
MEASURED BY : [REDACTED]

Location	TIME	July 15-16, 2024	
		WD	WS (m/s)
In Front of Siam Yamato Steel Plant	09:00-10:00	N	1.8
	10:00-11:00	N	3.6
	11:00-12:00	N	2.7
	12:00-13:00	N	1.3
	13:00-14:00	E	0.9
	14:00-15:00	NE	0.9
	15:00-16:00	-	CALM
	16:00-17:00	W	1.8
	17:00-18:00	N	1.8
	18:00-19:00	W	1.3
	19:00-20:00	WSW	1.8
	20:00-21:00	W	3.1
	21:00-22:00	N	2.7
	22:00-23:00	WNW	2.2
	23:00-00:00	W	2.7
	00:00-01:00	W	1.8
	01:00-02:00	WSW	2.2
	02:00-03:00	WNW	2.2
	03:00-04:00	W	1.3
	04:00-05:00	N	1.3
	05:00-06:00	WNW	1.3
	06:00-07:00	W	1.3
	07:00-08:00	N	1.8
	08:00-09:00	N	3.1

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction

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SGS (THAILAND) LIMITED



Technical Manager

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Report No. : 2024-500001912 / 002-7 (Page 2 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : July 15-16, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	20.83	8.33	8.33	-
NNE	-	-	-	-	-
NE	4.17	-	-	-	-
ENE	-	-	-	-	-
E	4.17	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	4.17	4.17	-	-
W	-	20.83	4.17	4.17	-
WNW	-	4.17	8.33	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	4.17				



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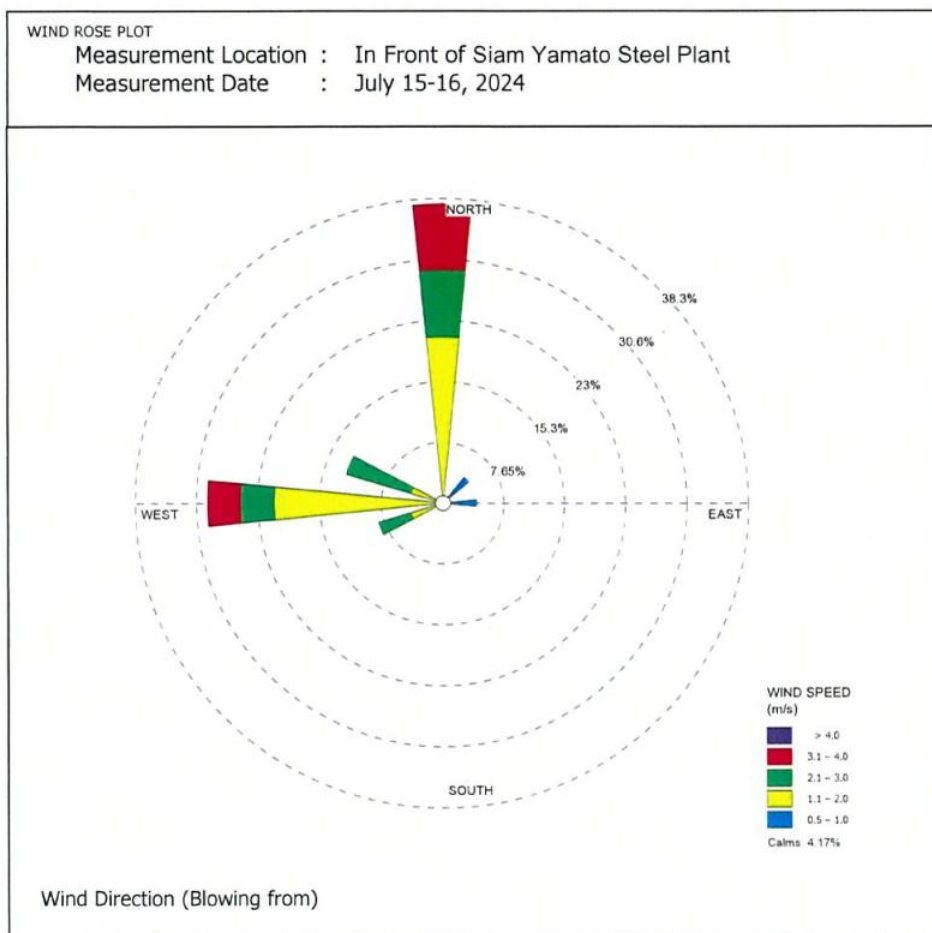
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Report No. : 2024-500001912 / 002-7 (Page 3 of 3) Issued date : August 7, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : July 15-16, 2024
MEASURED BY : [REDACTED]



Technical Manager

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**Report No. : 2024-500002179 / 002-1 (Page 1 of 4)****Issued date : August 23, 2024**

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** August 13-14, 2024
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	0.20	0.34	-	-
2. Dichlorodifluoromethane (F-12)	0.20	0.99	-	-
3. Chlorodifluoromethane (F-22)	0.16	0.57	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.36	0.74	-	-
6. Isobutene	2.21	5.06	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.94	2.08	5.3	-
9. Acetaldehyde	0.70	1.26	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.12	0.67	-	-
14. Pentane	0.74	2.18	-	-
15. Ethanol	0.60	1.13	-	-
16. Isoprene	0.36	1.00	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.35	3.21	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	<0.05	<0.17	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Technical Manager

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Report No. : 2024-500002179 / 002-1 (Page 2 of 4)

Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : August 13-14, 2024

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.28	0.99	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.18	0.58	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	0.20	0.61	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.24	0.90	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of the volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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**Report No. : 2024-500002179 / 002-1 (Page 3 of 4)****Issued date : August 23, 2024****CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.****CONTACT :****ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150****Fax. 038-910-777****E-mail:**

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**SAMPLING DATE : August 13-14, 2024****SAMPLING LOCATION : Ban Aow Pradoo****SAMPLING BY :****LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.07	0.28	-	-
64. p,m-Xylene	0.16	0.69	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.42	1.79	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.**Sources:** * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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Report No. : 2024-500002179 / 002-1 (Page 4 of 4)

Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : August 13-14, 2024

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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**Report No. : 2024-500002179 / 002-2 (Page 1 of 4)****Issued date : August 23, 2024****CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.****CONTACT :****ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150****Fax. 038-910-777****E-mail:**

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**SAMPLING DATE : August 13-14, 2024****SAMPLING LOCATION : New CO Plant of BTC****SAMPLING BY :****LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	0.12	0.21	-	-
2. Dichlorodifluoromethane (F-12)	0.24	1.19	-	-
3. Chlorodifluoromethane (F-22)	0.16	0.57	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.36	0.74	-	-
6. Isobutene	1.92	4.40	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.84	1.86	5.3	-
9. Acetaldehyde	0.44	0.79	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	0.28	1.09	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.12	0.67	-	-
14. Pentane	0.20	0.59	-	-
15. Ethanol	0.20	0.38	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.16	2.76	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	<0.05	<0.17	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.**Sources:** * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

SGS (THAILAND) LIMITED

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**Report No. : 2024-500002179 / 002-2 (Page 2 of 4)****Issued date : August 23, 2024****CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.****CONTACT :****ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150****Fax. 038-910-777****E-mail:**

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**SAMPLING DATE : August 13-14, 2024****SAMPLING LOCATION : New CO Plant of BTC****SAMPLING BY :****LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	<0.05	<0.18	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.32	1.02	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.28	1.06	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.**Sources:** * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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SGS (THAILAND) LIMITED

Technical Manager

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Report No. : 2024-500002179 / 002-2 (Page 3 of 4)

Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : August 13-14, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	1.28	5.56	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.24	9.54	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

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Report No. : 2024-500002179 / 002-2 (Page 4 of 4)

Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

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Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : August 13-14, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Technical Manager

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**Report No. : 2024-500002179 / 002-3 (Page 1 of 4)****Issued date : August 23, 2024**

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
[REDACTED] Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)
SAMPLING LOCATION : In Front of Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : August 13-14, 2024
SAMPLING BY : [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	0.68	1.17	-	-
2. Dichlorodifluoromethane (F-12)	0.24	1.19	-	-
3. Chlorodifluoromethane (F-22)	0.16	0.57	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.32	0.65	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	0.64	1.15	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.12	0.67	-	-
14. Pentane	0.40	1.18	-	-
15. Ethanol	0.60	1.13	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.23	2.92	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	<0.05	<0.17	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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SGS (THAILAND) LIMITED

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Technical Manager

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**Report No. : 2024-500002179 / 002-3 (Page 2 of 4)****Issued date : August 23, 2024**

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 **E-mail:** [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** August 13-14, 2024
SAMPLING LOCATION : In Front of Siam Yamato Steel Plant **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs (Cont.)				
29. Hexane	0.24	0.85	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.20	0.69	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.12	0.38	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	1.20	3.64	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.20	0.75	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

**Technical Manager**

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Report No. : 2024-500002179 / 002-3 (Page 3 of 4)

Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : August 13-14, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.56	2.39	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

TY/RS/SV/SV

SGS (THAILAND) LIMITED



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IE 001103

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Report No. : 2024-500002179 / 002-3 (Page 4 of 4)

Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : August 13-14, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

[REDACTED]
Technical Manager

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Report No. : 2024-500002179 / 002-5 (Page 1 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : August 13-14, 2024
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	August 13-14, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	11:00-12:00	WSW	1.3
	12:00-13:00	WSW	1.3
	13:00-14:00	S	1.3
	14:00-15:00	SSW	1.3
	15:00-16:00	S	1.3
	16:00-17:00	SSW	0.9
	17:00-18:00	S	1.3
	18:00-19:00	S	0.9
	19:00-20:00	S	0.9
	20:00-21:00	S	0.9
	21:00-22:00	S	0.9
	22:00-23:00	-	CALM
	23:00-00:00	S	0.9
	00:00-01:00	-	CALM
	01:00-02:00	WNW	1.3
	02:00-03:00	WNW	0.9
	03:00-04:00	WNW	2.2
	04:00-05:00	WNW	2.2
	05:00-06:00	WNW	1.8
	06:00-07:00	WNW	1.3
	07:00-08:00	WNW	1.8
	08:00-09:00	W	0.9
	09:00-10:00	W	1.3
	10:00-11:00	WSW	1.3

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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SGS (THAILAND) LIMITED



Technical Manager

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IE 001109

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Report No. : 2024-500002179 / 002-5 (Page 2 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : August 13-14, 2024
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	20.83	12.50	-	-	-
SSW	4.17	4.17	-	-	-
SW	-	-	-	-	-
WSW	-	12.50	-	-	-
W	4.17	4.17	-	-	-
WNW	4.17	16.67	8.33	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	8.33				

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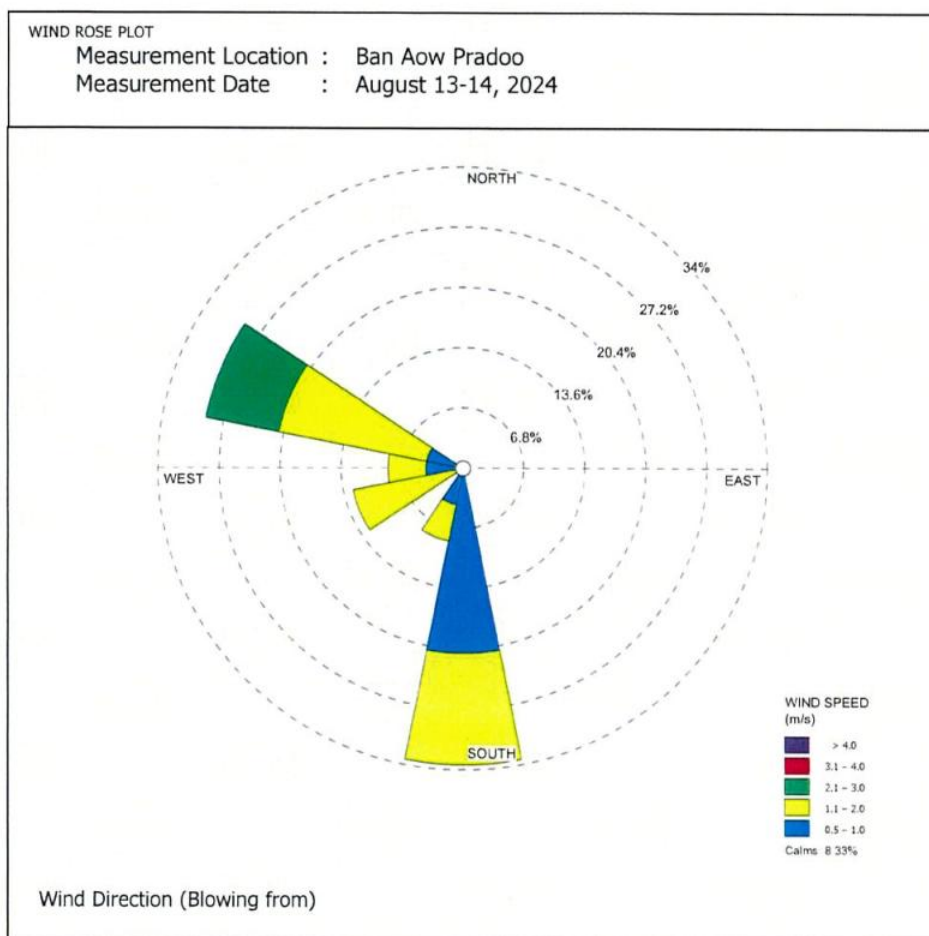
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Report No. : 2024-500002179 / 002-5 (Page 3 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
 MEASUREMENT LOCATION : Ban Aow Pradoo
 LABORATORY NAME : SGS (Thailand) Limited
 MEASUREMENT DATE : August 13-14, 2024
 MEASURED BY :



SGS (THAILAND) LIMITED

Technical Manager

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IE 001111

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Report No. : 2024-500002179 / 002-6 (Page 1 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : August 13-14, 2024
MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	August 13-14, 2024	
		WD	WS (m/s)
New CO Plant of BTC	09:00-10:00	WSW	2.7
	10:00-11:00	WSW	3.1
	11:00-12:00	WSW	3.1
	12:00-13:00	WSW	3.1
	13:00-14:00	WSW	3.1
	14:00-15:00	SSE	2.7
	15:00-16:00	S	2.7
	16:00-17:00	S	2.7
	17:00-18:00	S	2.2
	18:00-19:00	SSE	2.2
	19:00-20:00	S	1.8
	20:00-21:00	S	1.8
	21:00-22:00	S	1.3
	22:00-23:00	S	1.8
	23:00-00:00	S	1.8
	00:00-01:00	WSW	2.2
	01:00-02:00	WSW	2.7
	02:00-03:00	WSW	2.2
	03:00-04:00	SW	2.7
	04:00-05:00	SW	1.8
	05:00-06:00	SW	2.2
	06:00-07:00	WSW	3.1
	07:00-08:00	WSW	2.7
	08:00-09:00	WSW	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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SGS (THAILAND) LIMITED



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Report No. : 2024-500002179 / 002-6 (Page 2 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : August 13-14, 2024
MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	8.33	-	-
S	-	20.83	12.50	-	-
SSW	-	-	-	-	-
SW	-	4.17	8.33	-	-
WSW	-	-	25.00	20.83	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				



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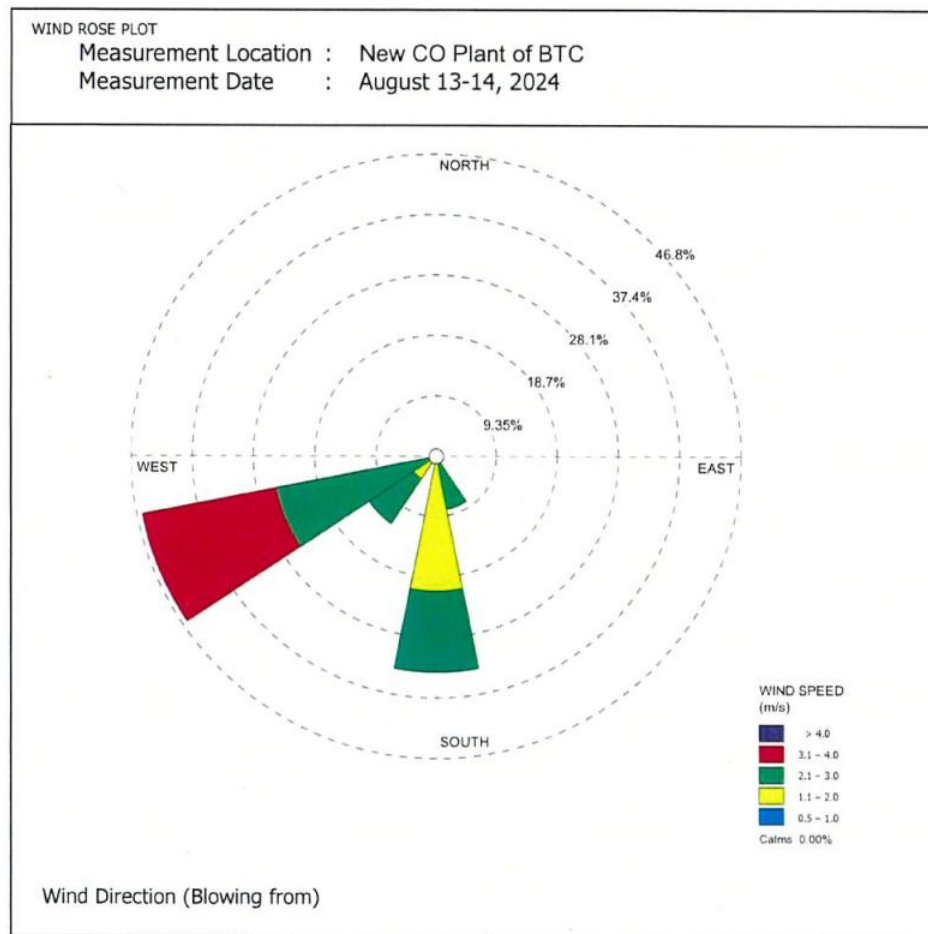
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Report No. : 2024-500002179 / 002-6 (Page 3 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
 MEASUREMENT LOCATION : New CO Plant of BTC
 LABORATORY NAME : SGS (Thailand) Limited
 MEASUREMENT DATE : August 13-14, 2024
 MEASURED BY :



Technical Manager

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Report No. : 2024-500002179 / 002-7 (Page 1 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : August 13-14, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	August 13-14, 2024	
		WD	WS (m/s)
In Front of Siam Yamato Steel Plant	10:00-11:00	W	3.1
	11:00-12:00	W	2.7
	12:00-13:00	WSW	2.7
	13:00-14:00	W	3.1
	14:00-15:00	WSW	2.7
	15:00-16:00	WSW	2.7
	16:00-17:00	W	2.7
	17:00-18:00	WSW	2.7
	18:00-19:00	WSW	2.7
	19:00-20:00	WSW	2.7
	20:00-21:00	W	3.1
	21:00-22:00	WSW	2.7
	22:00-23:00	W	2.7
	23:00-00:00	WSW	2.2
	00:00-01:00	WSW	2.7
	01:00-02:00	WSW	2.2
	02:00-03:00	WSW	3.1
	03:00-04:00	WSW	1.8
	04:00-05:00	-	CALM
	05:00-06:00	W	1.3
	06:00-07:00	WSW	0.9
	07:00-08:00	WSW	1.8
	08:00-09:00	WSW	2.7
	09:00-10:00	SSW	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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SGS (THAILAND) LIMITED



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Report No. : 2024-500002179 / 002-7 (Page 2 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2. I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : August 13-14, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	4.17	-	-
SW	-	-	-	-	-
WSW	4.17	8.33	45.83	4.17	-
W	-	4.17	12.50	12.50	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	4.17				

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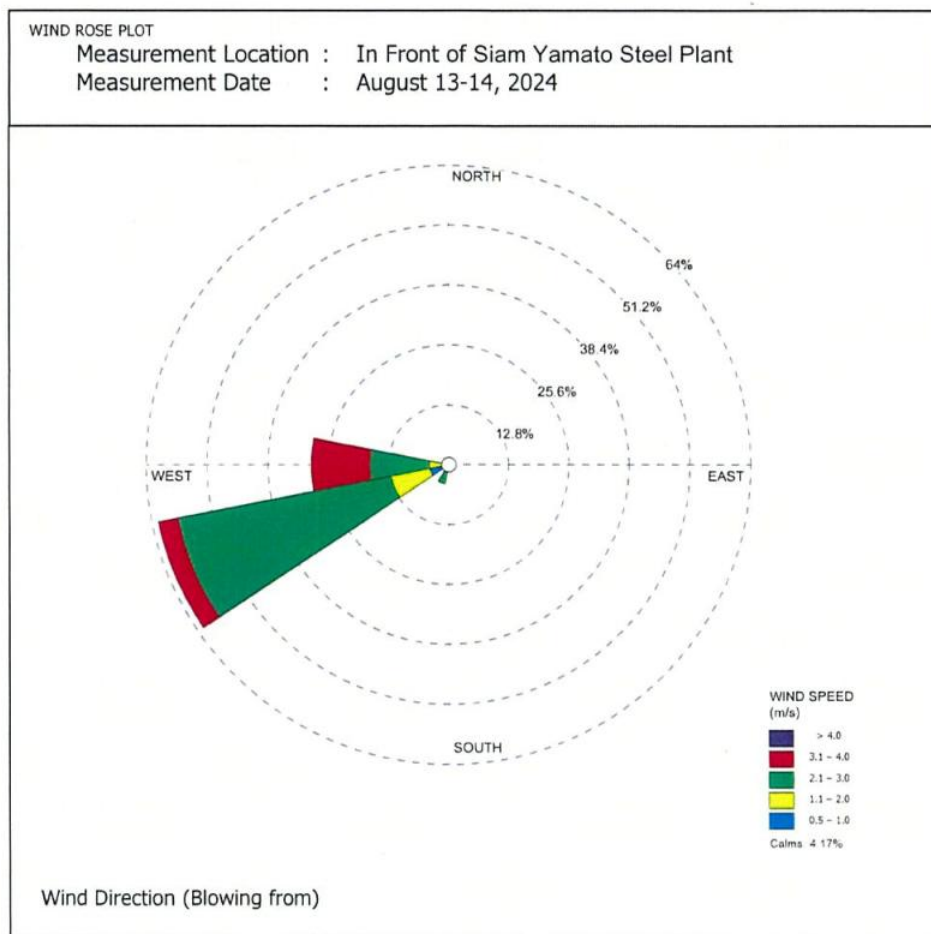
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Report No. : 2024-500002179 / 002-7 (Page 3 of 3) Issued date : August 23, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : August 13-14, 2024
 MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant MEASURED BY :
 LABORATORY NAME : SGS (Thailand) Limited



Technical Manager

SGS (THAILAND) LIMITED

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IE 001117

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Report No. : 2024-500002380 / 002-1 (Page 1 of 4) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : September 2-3, 2024
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	1.46	2.50	-	-
2. Dichlorodifluoromethane (F-12)	0.24	1.19	-	-
3. Chlorodifluoromethane (F-22)	0.20	0.71	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.54	1.10	-	-
6. Isobutene	0.40	0.92	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.82	1.81	5.3	-
9. Acetaldehyde	1.43	2.57	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.12	0.67	-	-
14. Pentane	0.66	1.95	-	-
15. Ethanol	2.30	4.33	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.99	4.73	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.08	0.28	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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SGS (THAILAND) LIMITED



Technical Manager

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Report No. : 2024-500002380 / 002-1 (Page 2 of 4) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : September 2-3, 2024
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.32	1.13	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.18	0.62	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.26	0.83	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.82	3.09	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of the volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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Report No. : 2024-500002380 / 002-1 (Page 3 of 4) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** September 2-3, 2024
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.12	0.52	-	-
64. p,m-Xylene	0.24	1.04	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.28	1.19	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 ** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2024-500002380 / 002-1 (Page 4 of 4)

Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2. I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : September 2-3, 2024
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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Report No. : 2024-500002380 / 002-2 (Page 1 of 4)

Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : September 2-3, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	2.52	4.34	-	-
2. Dichlorodifluoromethane (F-12)	0.24	1.19	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.60	1.23	-	-
6. Isobutene	0.60	1.37	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	1.20	2.65	5.3	-
9. Acetaldehyde	8.84	15.94	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	0.28	1.09	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	0.60	1.77	-	-
15. Ethanol	2.60	4.90	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.24	5.32	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.12	0.42	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of the volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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IE 003325

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**Report No. : 2024-500002380 / 002-2 (Page 2 of 4)****Issued date : September 17, 2024****CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.****CONTACT :****ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150****Fax. 038-910-777****E-mail:**

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**SAMPLING DATE : September 2-3, 2024****SAMPLING LOCATION : New CO Plant of BTC****SAMPLING BY :****LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.40	1.41	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.28	0.96	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.56	1.79	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	1.00	3.60	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.08	4.07	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.**Sources:** * Notification of Pollution Control Department, subjected 'The surveillant values of the volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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Report No. : 2024-500002380 / 002-2 (Page 3 of 4)

Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT : [REDACTED]

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : September 2-3, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.24	1.04	-	-
64. p,m-Xylene	1.60	6.95	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.32	9.88	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2024-500002380 / 002-2 (Page 4 of 4) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : September 2-3, 2024
SAMPLING BY : [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

[REDACTED]
Technical Manager

TY/RS/SV/SV

SGS (THAILAND) LIMITED



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Report No. : 2024-500002380 / 002-3 (Page 1 of 4)

Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax: 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : September 2-3, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs				
1. Propene	1.55	2.67	-	-
2. Dichlorodifluoromethane (F-12)	0.28	1.39	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.52	1.06	-	-
6. Isobutene	0.48	1.10	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	2.07	4.58	5.3	-
9. Acetaldehyde	1.27	2.29	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.12	0.67	-	-
14. Pentane	0.72	2.12	-	-
15. Ethanol	1.20	2.26	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.55	3.68	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.12	0.42	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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Report No. : 2024-500002380 / 002-3 (Page 2 of 4)

Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : September 2-3, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.44	1.55	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.52	1.79	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.32	1.02	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	0.16	0.86	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.03	3.88	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of the volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

TY/RS/SV/SV

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Report No. : 2024-500002380 / 002-3 (Page 3 of 4)

Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax: 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : September 2-3, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.12	0.55	-	-
63. Ethylbenzene	0.36	1.56	-	-
64. p,m-Xylene	0.32	1.39	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	1.00	4.26	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	1.91	4.14	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2024-500002380 / 002-3 (Page 4 of 4)

Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : September 2-3, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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[REDACTED]
Technical Manager

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Report No. : 2024-500002380 / 002-5 (Page 1 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2 I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : September 2-3, 2024
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	September 2-3, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	11:00-12:00	W	1.8
	12:00-13:00	W	1.8
	13:00-14:00	W	0.9
	14:00-15:00	-	CALM
	15:00-16:00	WNW	0.9
	16:00-17:00	WNW	2.2
	17:00-18:00	ENE	0.9
	18:00-19:00	E	0.9
	19:00-20:00	ENE	0.9
	20:00-21:00	ENE	1.3
	21:00-22:00	E	1.3
	22:00-23:00	E	1.3
	23:00-00:00	NE	0.9
	00:00-01:00	E	0.9
	01:00-02:00	N	0.9
	02:00-03:00	N	1.3
	03:00-04:00	E	0.9
	04:00-05:00	E	0.9
	05:00-06:00	NE	0.9
	06:00-07:00	ENE	1.3
	07:00-08:00	N	1.3
	08:00-09:00	N	1.3
	09:00-10:00	N	0.9
	10:00-11:00	N	0.9

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction



SGS (THAILAND) LIMITED

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Technical Manager

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Report No. : 2024-500002380 / 002-5 (Page 2 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : September 2-3, 2024
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	12.50	12.50	-	-	-
NNE	-	-	-	-	-
NE	8.33	-	-	-	-
ENE	8.33	8.33	-	-	-
E	16.67	8.33	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	4.17	8.33	-	-	-
WNW	4.17	-	4.17	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	4.17				



Technical Manager

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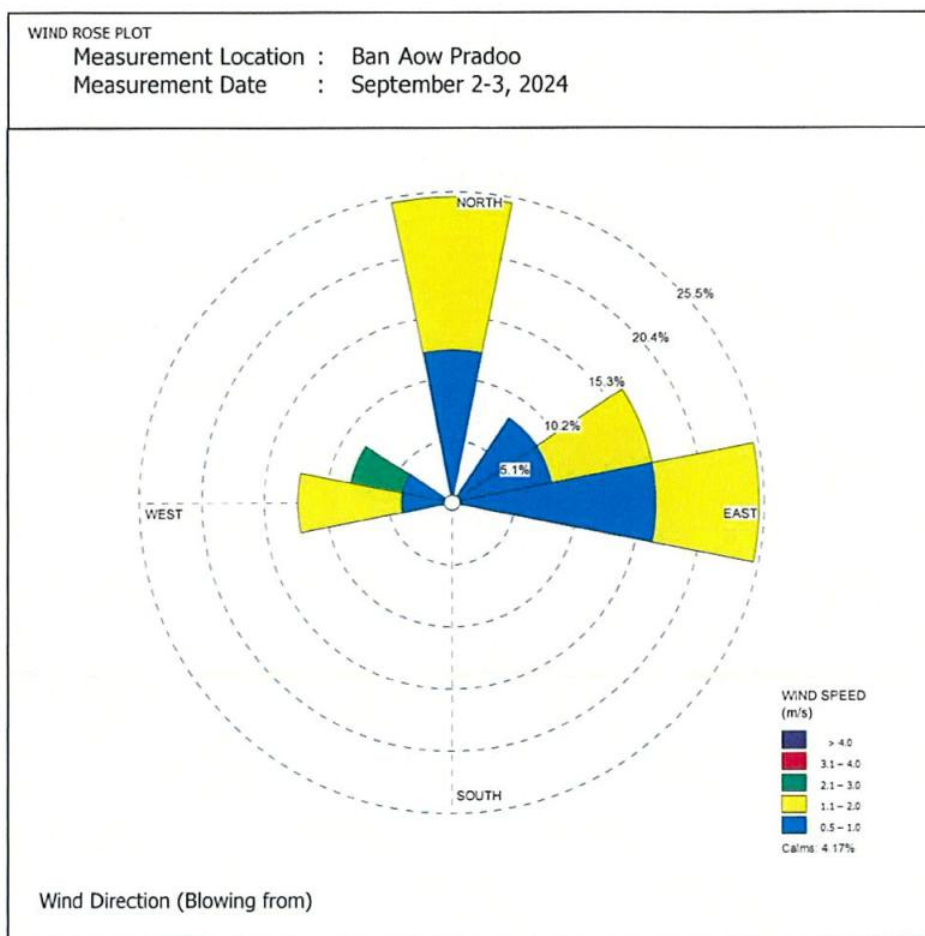
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Report No. : 2024-500002380 / 002-5 (Page 3 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : September 2-3, 2024
MEASURED BY : [REDACTED]



Technical Manager

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Report No. : 2024-500002380 / 002-6 (Page 1 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : September 2-3, 2024
MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	September 2-3, 2024	
		WD	WS (m/s)
New CO Plant of BTC	10:00-11:00	SW	2.2
	11:00-12:00	SSW	2.2
	12:00-13:00	SW	2.2
	13:00-14:00	SSW	0.9
	14:00-15:00	SSW	0.9
	15:00-16:00	WSW	1.3
	16:00-17:00	SW	1.3
	17:00-18:00	WSW	1.3
	18:00-19:00	S	1.3
	19:00-20:00	E	1.3
	20:00-21:00	-	CALM
	21:00-22:00	E	0.9
	22:00-23:00	NNE	0.9
	23:00-00:00	-	CALM
	00:00-01:00	-	CALM
	01:00-02:00	SSE	0.9
	02:00-03:00	N	0.9
	03:00-04:00	-	CALM
	04:00-05:00	-	CALM
	05:00-06:00	-	CALM
	06:00-07:00	-	CALM
	07:00-08:00	WSW	0.9
	08:00-09:00	S	0.9
	09:00-10:00	W	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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SGS (THAILAND) LIMITED

Technical Manager

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Report No. : 2024-500002380 / 002-6 (Page 2 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : September 2-3, 2024
MEASURED BY : [REDACTED]

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	4.17	-	-	-	-
NNE	4.17	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	4.17	4.17	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	4.17	-	-	-	-
S	4.17	4.17	-	-	-
SSW	8.33	-	4.17	-	-
SW	-	4.17	8.33	-	-
WSW	4.17	8.33	-	-	-
W	-	-	4.17	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	29.17				



SGS (THAILAND) LIMITED

Technical Manager

TY/RS/SV/SV

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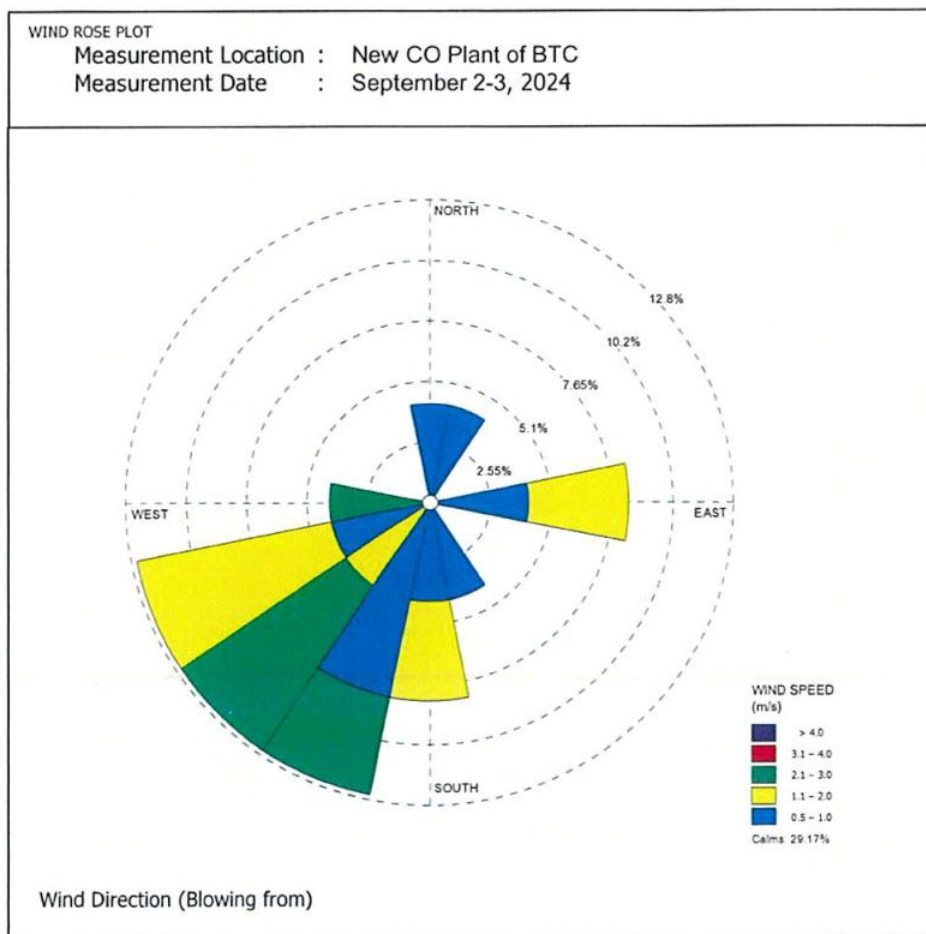
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Report No. : 2024-500002380 / 002-6 (Page 3 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : September 2-3, 2024
MEASURED BY : [REDACTED]



SGS (THAILAND) LIMITED

Technical Manager

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Report No. : 2024-500002380 / 002-7 (Page 1 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE :** September 2-3, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant **MEASURED BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	September 2-3, 2024	
		WD	WS (m/s)
In Front of Siam Yamato Steel Plant	11:00-12:00	W	3.6
	12:00-13:00	W	3.6
	13:00-14:00	W	3.1
	14:00-15:00	W	2.7
	15:00-16:00	W	2.7
	16:00-17:00	W	1.3
	17:00-18:00	N	0.9
	18:00-19:00	W	1.3
	19:00-20:00	NE	0.9
	20:00-21:00	NE	0.9
	21:00-22:00	E	0.9
	22:00-23:00	ENE	0.9
	23:00-00:00	NE	0.9
	00:00-01:00	ENE	0.9
	01:00-02:00	WSW	1.3
	02:00-03:00	WSW	0.9
	03:00-04:00	E	0.9
	04:00-05:00	WSW	1.3
	05:00-06:00	W	1.3
	06:00-07:00	-	CALM
	07:00-08:00	N	0.9
	08:00-09:00	N	2.2
	09:00-10:00	N	2.2
	10:00-11:00	N	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction



Technical Manager



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Report No. : 2024-500002380 / 002-7 (Page 2 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE** : September 2-3, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant **MEASURED BY** :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	8.33	-	12.50	-	-
NNE	-	-	-	-	-
NE	12.50	-	-	-	-
ENE	8.33	-	-	-	-
E	8.33	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	4.17	8.33	-	-	-
W	-	12.50	8.33	12.50	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	4.17				

Technical Manager

SGS (THAILAND) LIMITED

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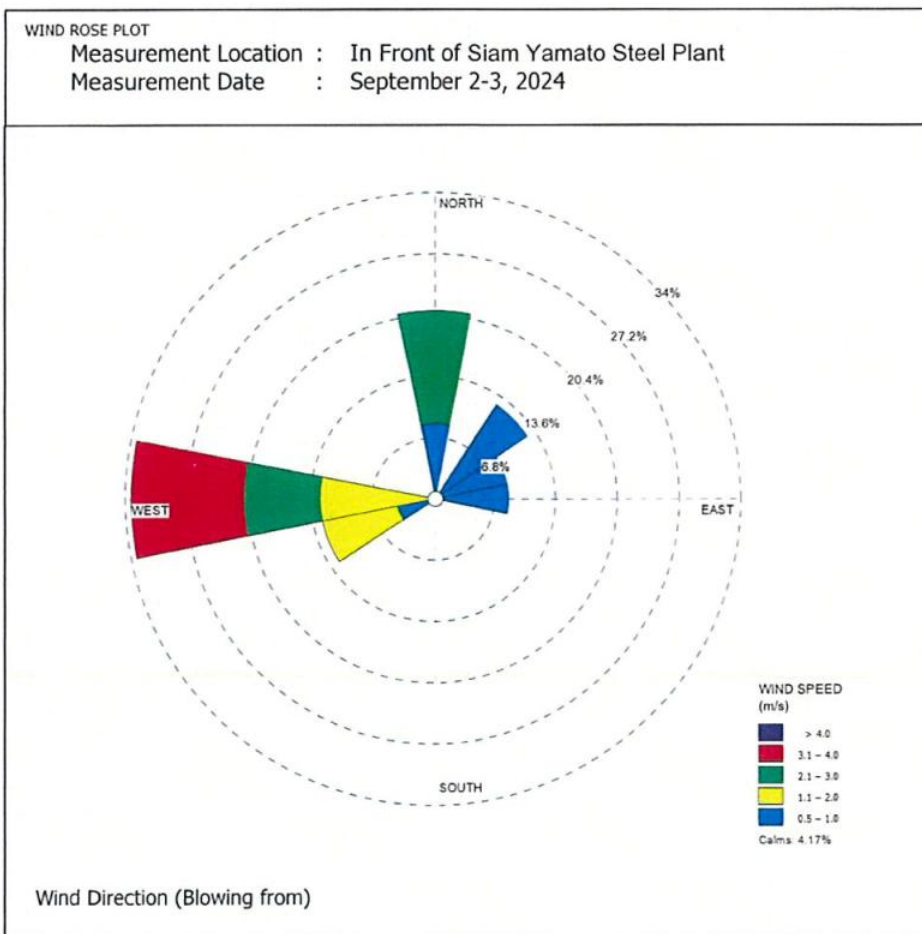
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Report No. : 2024-500002380 / 002-7 (Page 3 of 3) Issued date : September 17, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : September 2-3, 2024
MEASURED BY : [REDACTED]



Technical Manager

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Report No. : 2024-500002531 / 002-1 (Page 1 of 4) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 22-23, 2024
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	2.12	3.65	-	-
2. Dichlorodifluoromethane (F-12)	0.28	1.39	-	-
3. Chlorodifluoromethane (F-22)	0.34	1.20	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.76	1.55	-	-
6. Isobutene	0.36	0.82	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	2.34	4.21	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	1.80	5.30	-	-
15. Ethanol	2.30	4.33	-	-
16. Isoprene	0.32	0.89	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	3.59	8.53	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.28	0.97	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 ** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2024-500002531 / 002-1 (Page 2 of 4) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 22-23, 2024
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	1.06	3.72	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	1.14	3.34	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.38	1.31	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.52	1.66	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	2.10	7.89	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 ** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Technical Manager

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Report No. : 2024-500002531 / 002-1 (Page 3 of 4) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : October 22-23, 2024
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.28	1.22	-	-
64. p,m-Xylene	0.40	1.74	-	-
65. o-Xylene	0.12	0.52	-	-
66. Styrene	0.12	0.51	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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Report No. : 2024-500002531 / 002-1 (Page 4 of 4)

Issued date : November 11, 2024

CLIENT : INFOS TYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : October 22-23, 2024

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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Report No. : 2024-500002531 / 002-2 (Page 1 of 4)

Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : October 22-23, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	0.56	0.96	-	-
2. Dichlorodifluoromethane (F-12)	0.24	1.19	-	-
3. Chlorodifluoromethane (F-22)	0.28	0.99	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.64	1.31	-	-
6. Isobutene	0.52	1.19	-	-
7. Vinyl Chloride	0.36	0.92	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	5.96	10.75	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	2.63	7.76	-	-
15. Ethanol	4.60	8.67	-	-
16. Isoprene	0.20	0.56	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	4.34	10.31	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	0.36	1.03	-	-
27. Dichloromethane	0.28	0.97	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500002531 / 002-2 (Page 2 of 4)

Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax: 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : October 22-23, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	1.51	5.32	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	1.31	3.86	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.40	1.37	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.84	2.68	7.6	-
43. 1,2-dichloroethane (EDC)	0.28	1.13	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	0.12	0.49	-	-
54. Toluene	1.95	7.35	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500002531 / 002-2 (Page 3 of 4)

Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : October 22-23, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.28	1.22	-	-
64. p,m-Xylene	0.72	3.13	-	-
65. o-Xylene	0.12	0.52	-	-
66. Styrene	0.12	0.51	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500002531 / 002-2 (Page 4 of 4) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
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 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
 SAMPLING LOCATION : New CO Plant of BTC
 LABORATORY NAME : SGS (Thailand) Limited
 SAMPLING DATE : October 22-23, 2024
 SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 ** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2024-500002531 / 002-3 (Page 1 of 4)
Issued date : November 11, 2024
CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
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Fax. 038-910-777
E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)
SAMPLING DATE : October 22-23, 2024
SAMPLING LOCATION : In Front of Siam Yamato Steel Plant
SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	0.64	1.10	-	-
2. Dichlorodifluoromethane (F-12)	0.28	1.39	-	-
3. Chlorodifluoromethane (F-22)	0.56	1.98	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.72	1.47	-	-
6. Isobutene	1.04	2.38	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.40	0.88	5.3	-
9. Acetaldehyde	3.34	6.02	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	0.12	0.47	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	2.68	7.91	-	-
15. Ethanol	3.40	6.41	-	-
16. Isoprene	0.16	0.44	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	5.00	11.88	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	0.32	0.92	-	-
27. Dichloromethane	0.64	2.22	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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IE 006350

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Report No. : 2024-500002531 / 002-3 (Page 2 of 4)

Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : October 22-23, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	1.56	5.50	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	1.80	5.30	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.72	2.47	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.80	2.56	7.6	-
43. 1,2-dichloroethane (EDC)	0.16	0.65	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	0.30	0.91	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. trans-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	0.16	0.66	-	-
54. Toluene	2.28	8.59	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500002531 / 002-3 (Page 3 of 4)

Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : October 22-23, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.28	1.29	-	-
63. Ethylbenzene	0.72	3.13	-	-
64. p,m-Xylene	1.28	5.56	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	1.68	7.16	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	1.16	2.52	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

SGS (THAILAND) LIMITED

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IE 006348

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Report No. : 2024-500002531 / 002-3 (Page 4 of 4)

Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : October 22-23, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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SGS (THAILAND) LIMITED



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Report No. : 2024-500002531 / 002-5 (Page 1 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 22-23, 2024
MEASURED BY :

Location	TIME	October 22-23, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	10:00-11:00	NE	2.7
	11:00-12:00	NE	2.2
	12:00-13:00	SW	1.8
	13:00-14:00	WSW	3.1
	14:00-15:00	WNW	2.7
	15:00-16:00	WNW	1.8
	16:00-17:00	NW	0.9
	17:00-18:00	ENE	0.9
	18:00-19:00	-	CALM
	19:00-20:00	-	CALM
	20:00-21:00	-	CALM
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	-	CALM
	01:00-02:00	-	CALM
	02:00-03:00	-	CALM
	03:00-04:00	NE	0.9
	04:00-05:00	N	1.8
	05:00-06:00	N	1.8
	06:00-07:00	N	1.3
	07:00-08:00	NNE	1.8
	08:00-09:00	NNE	2.7
	09:00-10:00	NE	2.7

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction

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Technical Manager

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Report No. : 2024-500002531 / 002-5 (Page 2 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : October 22-23, 2024
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	12.50	-	-	-
NNE	-	4.17	4.17	-	-
NE	4.17	-	12.50	-	-
ENE	4.17	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	4.17	-	-	-
WSW	-	-	-	4.17	-
W	-	-	-	-	-
WNW	-	4.17	4.17	-	-
NW	4.17	-	-	-	-
NNW	-	-	-	-	-
CALM	37.50				

TY/RS/SV/SV



Technical Manager

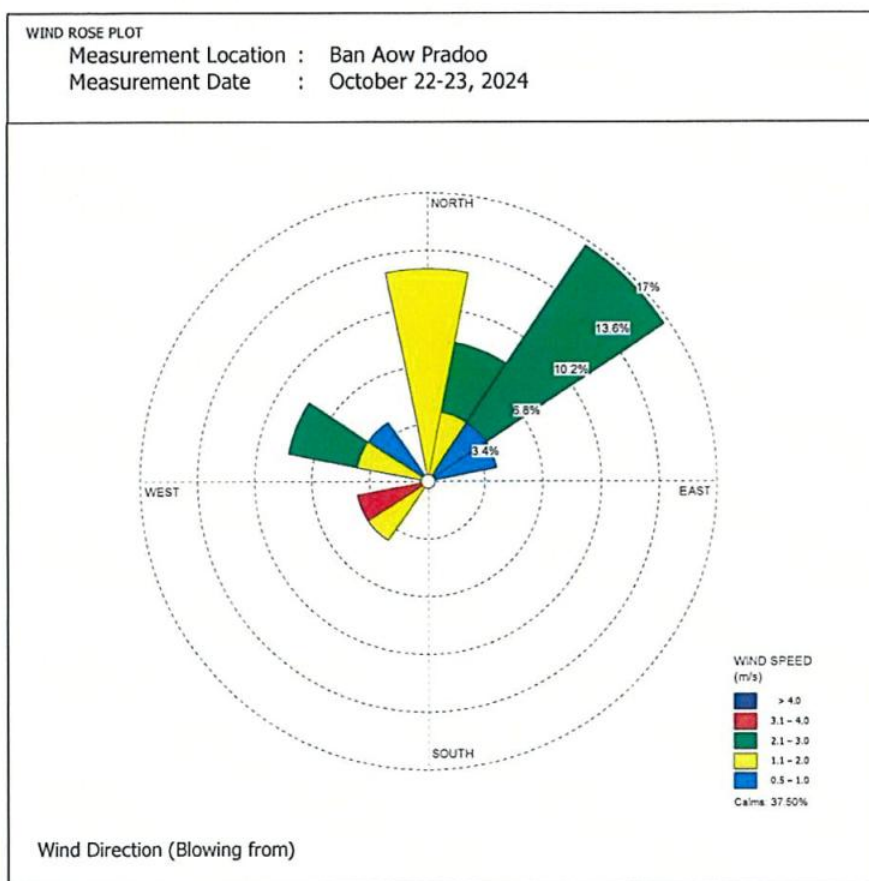
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Report No. : 2024-500002531 / 002-5 (Page 3 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 22-23, 2024
MEASURED BY :



Technical Manager



TY/RS/SV/SV

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Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

IE 006340

Report No. : 2024-500002531 / 002-6 (Page 1 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 22-23, 2024
MEASURED BY :

Location	TIME	October 22-23, 2024	
		WD	WS (m/s)
New CO Plant of BTC	09:00-10:00	W	1.3
	10:00-11:00	WSW	1.3
	11:00-12:00	SSW	1.8
	12:00-13:00	W	2.7
	13:00-14:00	WSW	3.1
	14:00-15:00	NW	1.8
	15:00-16:00	NW	1.8
	16:00-17:00	NNW	0.9
	17:00-18:00	E	0.9
	18:00-19:00	-	CALM
	19:00-20:00	-	CALM
	20:00-21:00	-	CALM
	21:00-22:00	E	0.9
	22:00-23:00	E	1.3
	23:00-00:00	E	1.3
	00:00-01:00	ENE	0.9
	01:00-02:00	E	0.9
	02:00-03:00	E	0.9
	03:00-04:00	E	0.9
	04:00-05:00	NE	0.9
	05:00-06:00	NNW	0.9
	06:00-07:00	NNW	0.9
	07:00-08:00	NNW	0.9
	08:00-09:00	ENE	1.3

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction



Technical Manager



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Report No. : 2024-500002531 / 002-6 (Page 2 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 22-23, 2024
MEASURED BY : [REDACTED]

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	4.17	-	-	-	-
ENE	4.17	4.17	-	-	-
E	20.83	8.33	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	4.17	-	-	-
SW	-	-	-	-	-
WSW	-	4.17	-	4.17	-
W	-	4.17	4.17	-	-
WNW	-	-	-	-	-
NW	-	8.33	-	-	-
NNW	16.67	-	-	-	-
CALM	12.50				



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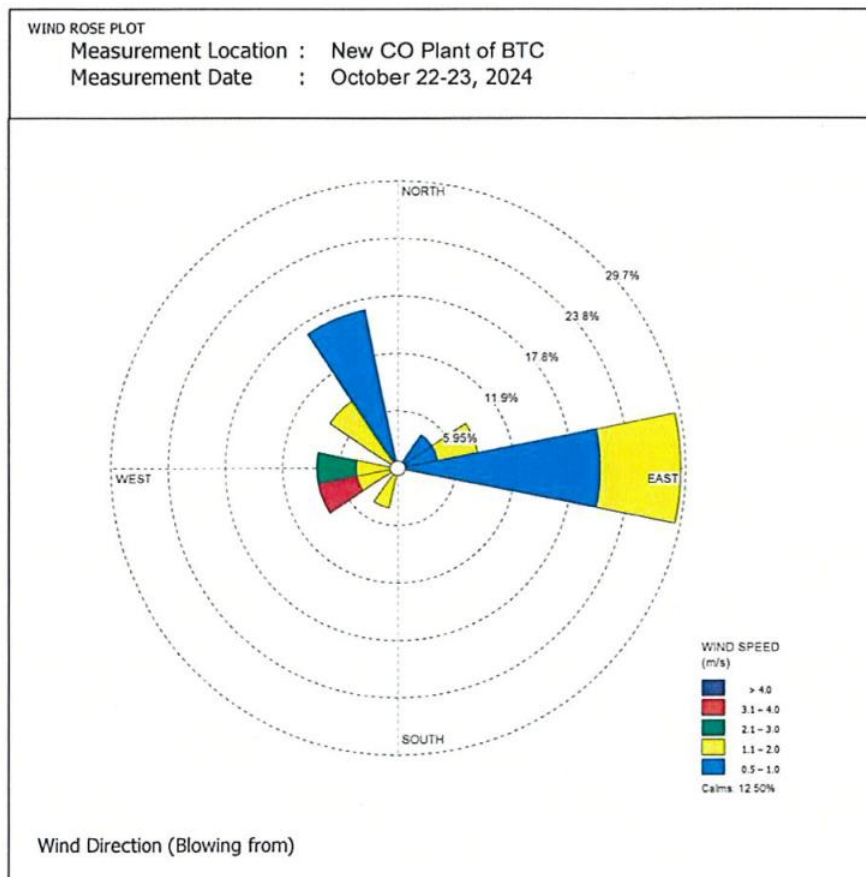
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Report No. : 2024-500002531 / 002-6 (Page 3 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 22-23, 2024
MEASURED BY :



Technical Manager

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Report No. : 2024-500002531 / 002-7 (Page 1 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE** : October 22-23, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant **MEASURED BY** :
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	October 22-23, 2024	
		WD	WS (m/s)
In Front of Siam Yamato Steel Plant	09:00-10:00	-	CALM
	10:00-11:00	-	CALM
	11:00-12:00	W	1.3
	12:00-13:00	NE	3.1
	13:00-14:00	WSW	2.7
	14:00-15:00	-	CALM
	15:00-16:00	-	CALM
	16:00-17:00	-	CALM
	17:00-18:00	NE	1.3
	18:00-19:00	ENE	0.9
	19:00-20:00	-	CALM
	20:00-21:00	-	CALM
	21:00-22:00	-	CALM
	22:00-23:00	ENE	0.9
	23:00-00:00	NE	1.3
	00:00-01:00	NE	0.9
	01:00-02:00	-	CALM
	02:00-03:00	-	CALM
	03:00-04:00	ENE	0.9
	04:00-05:00	NNE	0.9
	05:00-06:00	N	0.9
	06:00-07:00	-	CALM
	07:00-08:00	NNE	0.9
	08:00-09:00	NNE	1.3

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction

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SGS (THAILAND) LIMITED



Technical Manager

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Report No. : 2024-500002531 / 002-7 (Page 2 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE** : October 22-23, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant **MEASURED BY** :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	4.17	-	-	-	-
NNE	8.33	4.17	-	-	-
NE	4.17	8.33	-	4.17	-
ENE	12.50	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	4.17	-	-
W	-	4.17	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	45.83				



Technical Manager



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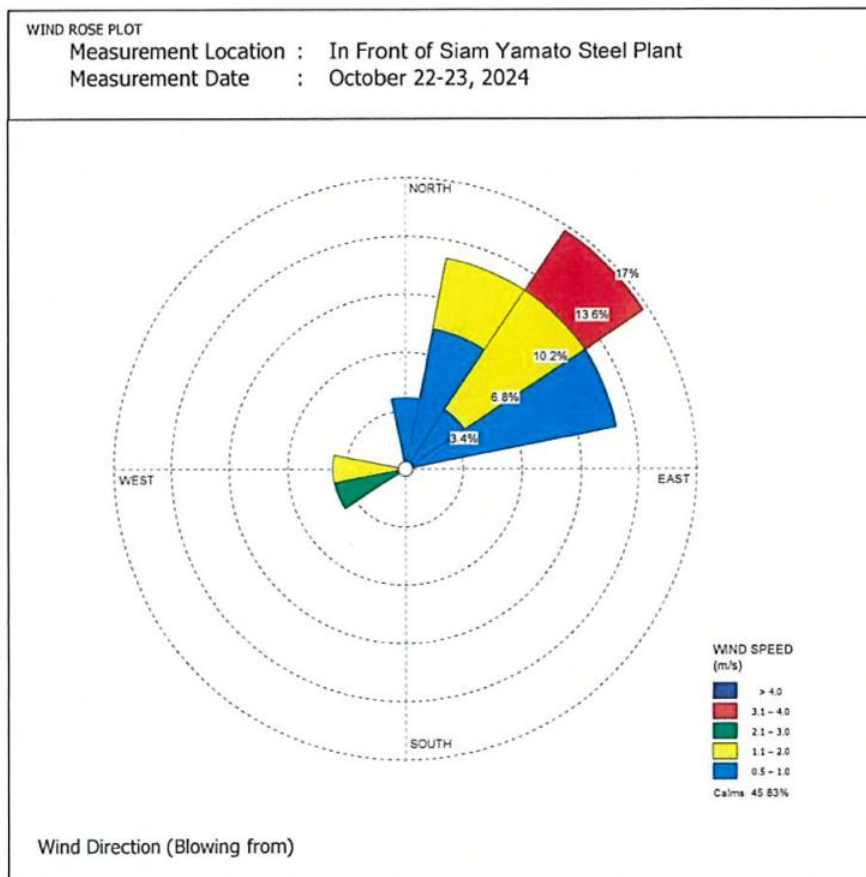
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Report No. : 2024-500002531 / 002-7 (Page 3 of 3) Issued date : November 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 22-23, 2024
MEASURED BY :



TY/RS/SV/SV

SGS (THAILAND) LIMITED



Technical Manager

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IE 006334

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Report No. : 2024-500002914 / 002-1 (Page 1 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : November 14-15, 2024
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	2.00	3.44	-	-
2. Dichlorodifluoromethane (F-12)	0.32	1.58	-	-
3. Chlorodifluoromethane (F-22)	0.28	0.99	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.84	1.72	-	-
6. Isobutene	0.40	0.92	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.32	0.71	5.3	-
9. Acetaldehyde	4.96	8.95	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	0.72	2.12	-	-
15. Ethanol	11.60	21.86	-	-
16. Isoprene	0.32	0.89	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	6.56	15.58	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.24	0.83	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Technical Manager

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IE 007857

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Report No. : 2024-500002914 / 002-1 (Page 2 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : November 14-15, 2024
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.48	1.69	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.68	2.00	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.44	1.41	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	1.00	3.03	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.16	4.37	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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SGS (THAILAND) LIMITED

Technical Manager

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Report No. : 2024-500002914 / 002-1 (Page 3 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : November 14-15, 2024
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.16	0.69	-	-
64. p,m-Xylene	0.24	1.04	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.40	1.70	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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Report No. : 2024-500002914 / 002-1 (Page 4 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** November 14-15, 2024
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 ** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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Report No. : 2024-500002914 / 002-2 (Page 1 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** November 14-15, 2024
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	3.06	5.27	-	-
2. Dichlorodifluoromethane (F-12)	0.32	1.58	-	-
3. Chlorodifluoromethane (F-22)	0.32	1.13	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.84	1.72	-	-
6. Isobutene	0.72	1.65	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.40	0.88	5.3	-
9. Acetaldehyde	5.07	9.14	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	0.88	2.60	-	-
15. Ethanol	5.40	10.17	-	-
16. Isoprene	0.05	0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	4.30	10.21	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.44	1.53	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2024-500002914 / 002-2 (Page 2 of 4)

Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : November 14-15, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	1.03	3.63	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.64	1.88	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.16	0.55	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.64	2.04	7.6	-
43. 1,2-dichloroethane (EDC)	0.16	0.65	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	1.00	3.03	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	1.75	6.31	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.19	4.48	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2024-500002914 / 002-2 (Page 3 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : November 14-15, 2024
 SAMPLING LOCATION : New CO Plant of BTC SAMPLING BY :
 LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.12	0.55	-	-
63. Ethylbenzene	0.20	0.87	-	-
64. p,m-Xylene	0.40	1.74	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.20	0.85	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
 Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 ** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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Report No. : 2024-500002914 / 002-2 (Page 4 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
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 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : November 14-15, 2024
SAMPLING BY : [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
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[REDACTED]
 Technical Manager

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Report No. : 2024-500002914 / 002-3 (Page 1 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : November 14-15, 2024
 SAMPLING LOCATION : In Front of Siam Yamato Steel Plant SAMPLING BY :
 LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	1.95	3.36	-	-
2. Dichlorodifluoromethane (F-12)	0.28	1.39	-	-
3. Chlorodifluoromethane (F-22)	0.32	1.13	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.72	1.47	-	-
6. Isobutene	0.68	1.56	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.56	1.23	5.3	-
9. Acetaldehyde	1.59	2.87	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	1.03	3.04	-	-
15. Ethanol	8.80	16.58	-	-
16. Isoprene	0.08	0.22	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	3.90	9.26	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.32	1.11	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
 Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 ** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

TY/RS/SV/SV

SGS (THAILAND) LIMITED

Technical Manager

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Member of the SGS Group

Report No. : 2024-500002914 / 002-3 (Page 2 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : November 14-15, 2024
SAMPLING LOCATION : In Front of Siam Yamato Steel Plant SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.56	1.97	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.92	2.71	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.28	0.96	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.36	1.15	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.92	3.47	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
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Technical Manager

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Report No. : 2024-500002914 / 002-3 (Page 3 of 4) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : November 14-15, 2024
SAMPLING LOCATION : In Front of Siam Yamato Steel Plant SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.32	1.47	-	-
63. Ethylbenzene	0.48	2.08	-	-
64. p,m-Xylene	0.32	1.39	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	3.34	14.23	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	1.35	2.93	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
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Technical Manager

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Report No. : 2024-500002914 / 002-3 (Page 4 of 4) **Issued date : December 2, 2024**

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
Fax. 038-910-777 **E-mail:**

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** November 14-15, 2024
SAMPLING LOCATION : In Front of Siam Yamato Steel Plant **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
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Technical Manager

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Report No. : 2024-500002914 / 002-5 (Page 1 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : November 14-15, 2024
MEASURED BY :

Location	TIME	November 14-15, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	10:00-11:00	-	CALM
	11:00-12:00	ESE	0.9
	12:00-13:00	S	1.8
	13:00-14:00	S	2.2
	14:00-15:00	SSW	0.9
	15:00-16:00	S	1.3
	16:00-17:00	-	CALM
	17:00-18:00	SSW	0.9
	18:00-19:00	SSW	0.9
	19:00-20:00	-	CALM
	20:00-21:00	-	CALM
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	-	CALM
	01:00-02:00	-	CALM
	02:00-03:00	-	CALM
	03:00-04:00	-	CALM
	04:00-05:00	-	CALM
	05:00-06:00	-	CALM
	06:00-07:00	-	CALM
	07:00-08:00	-	CALM
	08:00-09:00	ESE	0.9
	09:00-10:00	SSE	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction

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Technical Manager

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Report No. : 2024-500002914 / 002-5 (Page 2 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE** : November 14-15, 2024
MEASUREMENT LOCATION : Ban Aow Pradoo **MEASURED BY** :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	8.33	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	4.17	-	-
S	-	8.33	4.17	-	-
SSW	12.50	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	62.50				

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SGS (THAILAND) LIMITED



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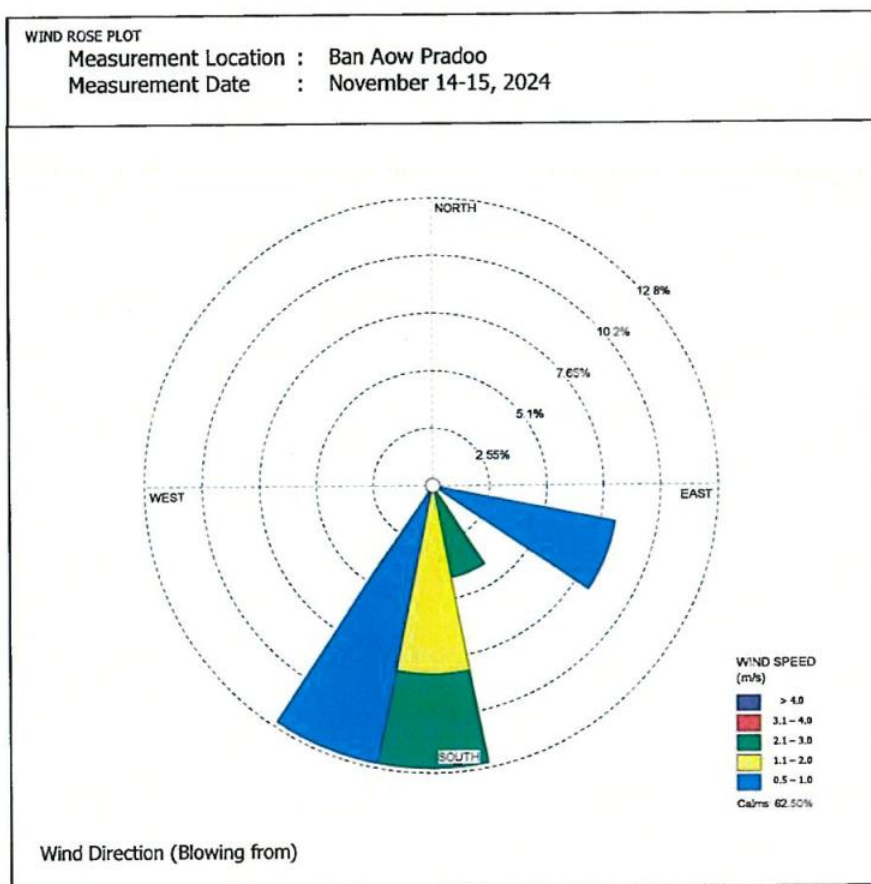
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Report No. : 2024-500002914 / 002-5 (Page 3 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : November 14-15, 2024
 MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :
 LABORATORY NAME : SGS (Thailand) Limited



Technical Manager

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SGS (THAILAND) LIMITED

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Report No. : 2024-500002914 / 002-6 (Page 1 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : November 14-15, 2024
 MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :
 LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	November 14-15, 2024	
		WD	WS (m/s)
New CO Plant of BTC	09:00-10:00	-	CALM
	10:00-11:00	-	CALM
	11:00-12:00	NE	1.3
	12:00-13:00	ENE	3.1
	13:00-14:00	SE	3.1
	14:00-15:00	SSW	2.2
	15:00-16:00	SSE	1.8
	16:00-17:00	SE	1.8
	17:00-18:00	SSE	1.3
	18:00-19:00	SW	0.9
	19:00-20:00	-	CALM
	20:00-21:00	NE	0.9
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	N	0.9
	01:00-02:00	-	CALM
	02:00-03:00	-	CALM
	03:00-04:00	-	CALM
	04:00-05:00	-	CALM
	05:00-06:00	-	CALM
	06:00-07:00	-	CALM
	07:00-08:00	NE	1.3
	08:00-09:00	NE	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction



Technical Manager

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Report No. : 2024-500002914 / 002-6 (Page 2 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : November 14-15, 2024
 MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :
 LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	4.17	-	-	-	-
NNE	-	-	-	-	-
NE	4.17	8.33	4.17	-	-
ENE	-	-	-	4.17	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	4.17	-	4.17	-
SSE	-	8.33	-	-	-
S	-	-	-	-	-
SSW	-	-	4.17	-	-
SW	4.17	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	50.00				

Technical Manager

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SGS (THAILAND) LIMITED



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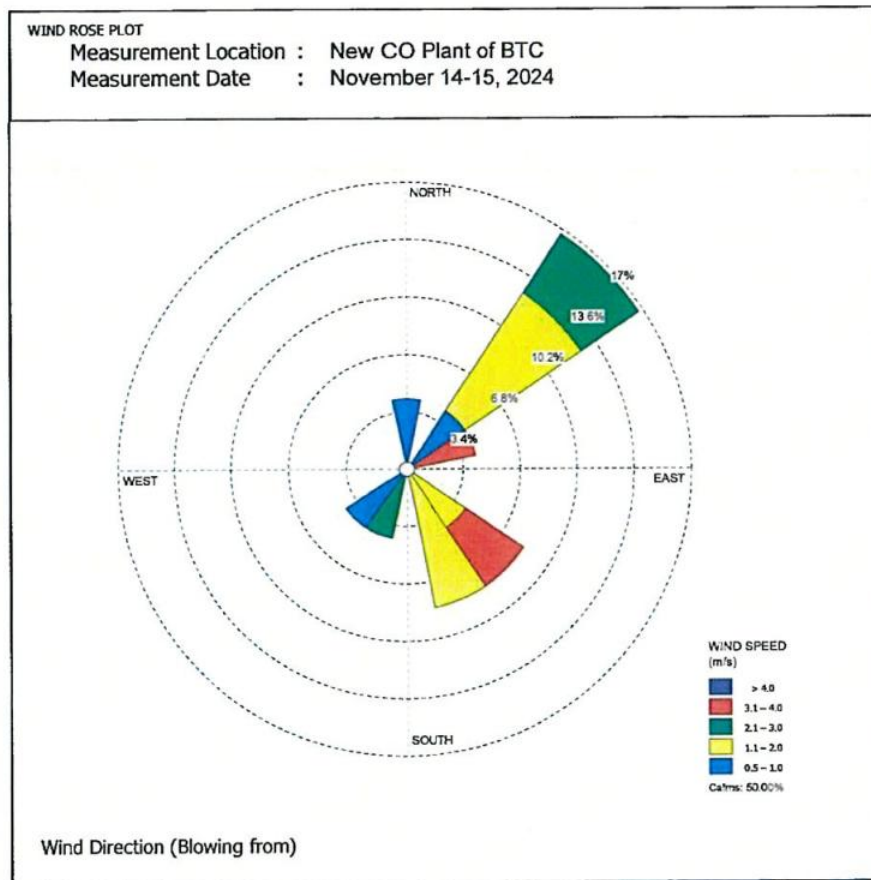
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Report No. : 2024-500002914 / 002-6 (Page 3 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
 MEASUREMENT LOCATION : New CO Plant of BTC
 LABORATORY NAME : SGS (Thailand) Limited
 MEASUREMENT DATE : November 14-15, 2024
 MEASURED BY :



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SGS (THAILAND) LIMITED



Technical Manager

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Report No. : 2024-500002914 / 002-7 (Page 1 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

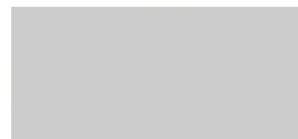
Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE :** November 14-15, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant **MEASURED BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	November 14-15, 2024	
		WD	WS (m/s)
In Front of Siam Yamato Steel Plant	09:00-10:00	ENE	0.9
	10:00-11:00	ENE	0.9
	11:00-12:00	E	2.2
	12:00-13:00	E	3.1
	13:00-14:00	E	3.1
	14:00-15:00	N	3.1
	15:00-16:00	SW	2.7
	16:00-17:00	N	2.7
	17:00-18:00	N	2.7
	18:00-19:00	N	1.3
	19:00-20:00	-	CALM
	20:00-21:00	NNE	0.9
	21:00-22:00	NE	0.9
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	NE	0.9
	01:00-02:00	NE	0.9
	02:00-03:00	NNE	0.9
	03:00-04:00	-	CALM
	04:00-05:00	NNE	0.9
	05:00-06:00	NE	0.9
	06:00-07:00	NE	1.3
	07:00-08:00	NE	1.3
	08:00-09:00	E	1.3

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction



Technical Manager



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Report No. : 2024-500002914 / 002-7 (Page 2 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax: 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE** : November 14-15, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant **MEASURED BY** :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	4.17	8.33	4.17	-
NNE	12.50	-	-	-	-
NE	16.67	8.33	-	-	-
ENE	8.33	-	-	-	-
E	-	4.17	4.17	8.33	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	4.17	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	16.67				

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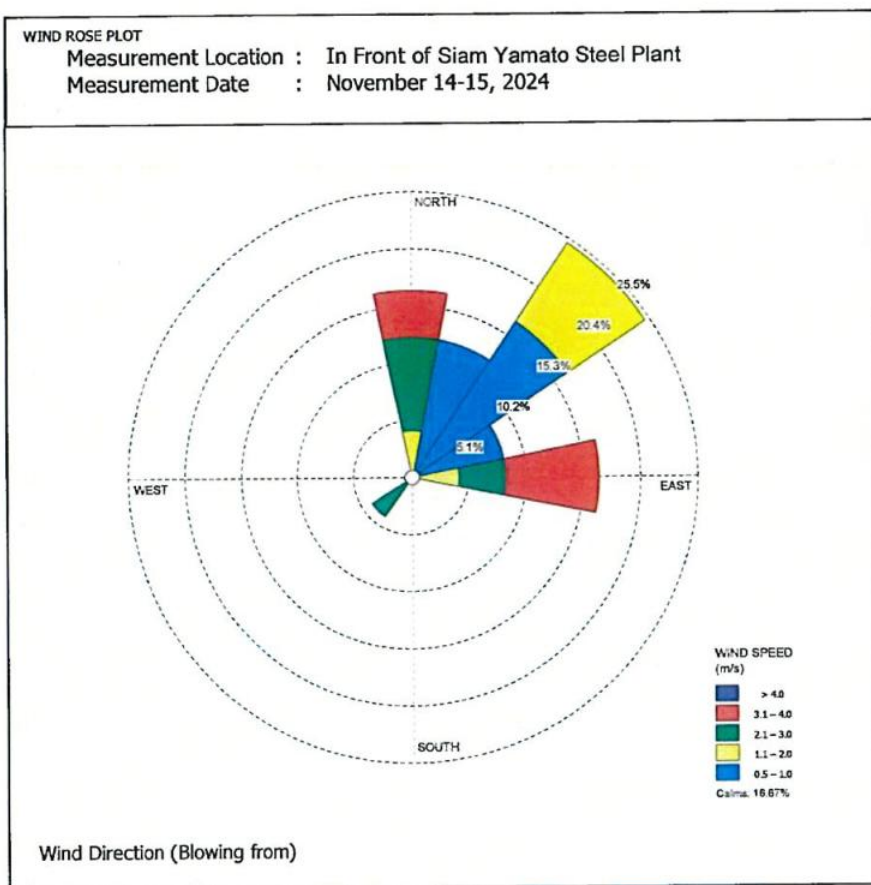
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Report No. : 2024-500002914 / 002-7 (Page 3 of 3) Issued date : December 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
 CONTACT :
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : November 14-15, 2024
 MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant MEASURED BY :
 LABORATORY NAME : SGS (Thailand) Limited



Technical Manager

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Report No. : 2024-500003145 / 002-1 (Page 1 of 4) Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** December 17-18, 2024
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	0.32	0.55	-	-
2. Dichlorodifluoromethane (F-12)	0.32	1.58	-	-
3. Chlorodifluoromethane (F-22)	0.28	0.99	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.64	1.31	-	-
6. Isobutene	0.24	0.55	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	1.59	2.87	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	0.64	1.89	-	-
15. Ethanol	4.50	8.48	-	-
16. Isoprene	0.12	0.33	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	5.05	12.00	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.36	1.25	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 ** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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Report No. : 2024-500003145 / 002-1 (Page 2 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : December 17-18, 2024

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs (Cont.)				
29. Hexane	0.28	0.99	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.56	1.65	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.32	1.02	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.00	3.77	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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Report No. : 2024-500003145 / 002-1 (Page 3 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

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Fax. 038-910-777

E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : December 17-18, 2024

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.12	0.52	-	-
64. p,m-Xylene	0.16	0.69	-	-
65. o-Xylene	0.08	0.35	-	-
66. Styrene	0.28	1.19	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

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Report No. : 2024-500003145 / 002-1 (Page 4 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING LOCATION : Ban Aow Pradoo

LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 17-18, 2024

SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

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Report No. : 2024-500003145 / 002-2 (Page 1 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
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Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)
SAMPLING LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 17-18, 2024
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppb)	($\mu\text{g}/\text{m}^3$)		
VOCs				
1. Propene	2.87	4.94	-	-
2. Dichlorodifluoromethane (F-12)	0.32	1.58	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.72	1.47	-	-
6. Isobutene	0.40	0.92	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.68	1.50	5.3	-
9. Acetaldehyde	1.25	2.26	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	1.63	4.81	-	-
15. Ethanol	4.10	7.73	-	-
16. Isoprene	0.16	0.44	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	4.02	9.55	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.40	1.39	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2024-500003145 / 002-2 (Page 2 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : December 17-18, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.44	1.55	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.88	2.59	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.12	0.41	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.56	1.79	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	1.71	6.16	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.15	4.33	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

SGS (THAILAND) LIMITED

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IE 009263

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Report No. : 2024-500003145 / 002-2 (Page 3 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : December 17-18, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.12	0.52	-	-
64. p,m-Xylene	0.16	0.69	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.08	0.34	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2024-500003145 / 002-2 (Page 4 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

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Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING LOCATION : New CO Plant of BTC

LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 17-18, 2024

SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



Technical Manager

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Report No. : 2024-500003145 / 002-3 (Page 1 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)
SAMPLING LOCATION : In Front of Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 17-18, 2024

SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	1.40	2.41	-	-
2. Dichlorodifluoromethane (F-12)	0.32	1.58	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.64	1.31	-	-
6. Isobutene	0.24	0.55	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.40	0.88	5.3	-
9. Acetaldehyde	1.12	2.02	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	0.20	0.59	-	-
15. Ethanol	4.30	8.10	-	-
16. Isoprene	0.16	0.44	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.1	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	3.32	7.89	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.28	0.97	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

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Report No. : 2024-500003145 / 002-3 (Page 2 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 17-18, 2024

SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	<0.05	<0.14	-	-
30. Methacrolein	<0.05	<0.20	-	-
31. 1,1-dichloroethane	<0.05	<0.18	-	-
32. Vinyl Acetate	<0.05	<0.12	-	-
33. 1-Propanol	<0.10	<0.29	-	-
34. Butanal	<0.05	<0.14	-	-
35. Methyl Vinyl Ketone	<0.05	<0.20	-	-
36. cis-1,2-dichloroethene	0.96	2.83	-	-
37. Methyl Ethyl Ketone	<0.05	<0.24	-	-
38. Chloroform	<0.05	<0.17	57	-
39. Cyclohexane	<0.05	<0.27	-	-
40. 1,1,1-trichloroethane	<0.05	<0.31	-	-
41. Carbon Tetrachloride	0.44	1.41	150	-
42. Benzene	<0.05	<0.20	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.27	48	-
44. Trichloroethylene	<0.10	<0.30	130	-
45. 1-Butanol	<0.05	<0.18	-	-
46. 2-Pentanone	<0.05	<0.23	-	-
47. 1,2-dichloropropane	<0.05	<0.18	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.33	860	-
51. Bromodichloromethane	<0.05	<0.22	-	-
52. tran-1,3-dichloropropane	<0.05	<0.20	-	-
53. Methyl Isobutyl Ketone	0.80	3.01	-	-
54. Toluene	<0.05	<0.22	-	-
55. cis-1,3-dichloropropane	<0.05	<0.27	-	-
56. 1,1,2-trichloroethane	<0.05	<0.34	-	-
57. Tetrachloroethylene	<0.05	<0.20	400	-
58. 3-Hexanone	<0.05	<0.14	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2024-500003145 / 002-3 (Page 3 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

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Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : December 17-18, 2024

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.40	1.84	-	-
63. Ethylbenzene	0.56	2.43	-	-
64. p,m-Xylene	0.24	1.04	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.64	11.25	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

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Report No. : 2024-500003145 / 002-3 (Page 4 of 4)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

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Fax. 038-910-777

E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING LOCATION : In Front of Siam Yamato Steel Plant

LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 17-18, 2024

SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Technical Manager

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Report No. : 2024-500003145 / 002-5 (Page 1 of 3)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

MEASUREMENT DATE : December 17-18, 2024
MEASURED BY : [REDACTED]

Location	TIME	December 17-18, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	10:00-11:00	ENE	3.1
	11:00-12:00	ENE	2.7
	12:00-13:00	E	2.7
	13:00-14:00	ENE	2.7
	14:00-15:00	E	2.2
	15:00-16:00	S	2.2
	16:00-17:00	S	1.8
	17:00-18:00	S	0.9
	18:00-19:00	-	CALM
	19:00-20:00	-	CALM
	20:00-21:00	-	CALM
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	-	CALM
	01:00-02:00	NE	0.9
	02:00-03:00	ENE	1.3
	03:00-04:00	ENE	2.2
	04:00-05:00	ENE	1.8
	05:00-06:00	NE	1.8
	06:00-07:00	ENE	1.8
	07:00-08:00	ENE	2.7
	08:00-09:00	ENE	3.1
	09:00-10:00	ENE	3.1

Measurement Method : - Wind speed and direction recording meter

Remarks :
 - WS = Wind Speed
 - WD = Wind Direction

Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2024-500003145 / 002-5 (Page 2 of 3)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : December 17-18, 2024
MEASURED BY : [REDACTED]

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	4.17	4.17	-	-	-
ENE	-	12.50	16.67	12.50	-
E	-	-	8.33	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	4.17	4.17	4.17	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	29.17				

TY/RS/SV/SV

SGS (THAILAND) LIMITED



Technical Manager

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Report No. : 2024-500003145 / 002-5 (Page 3 of 3)

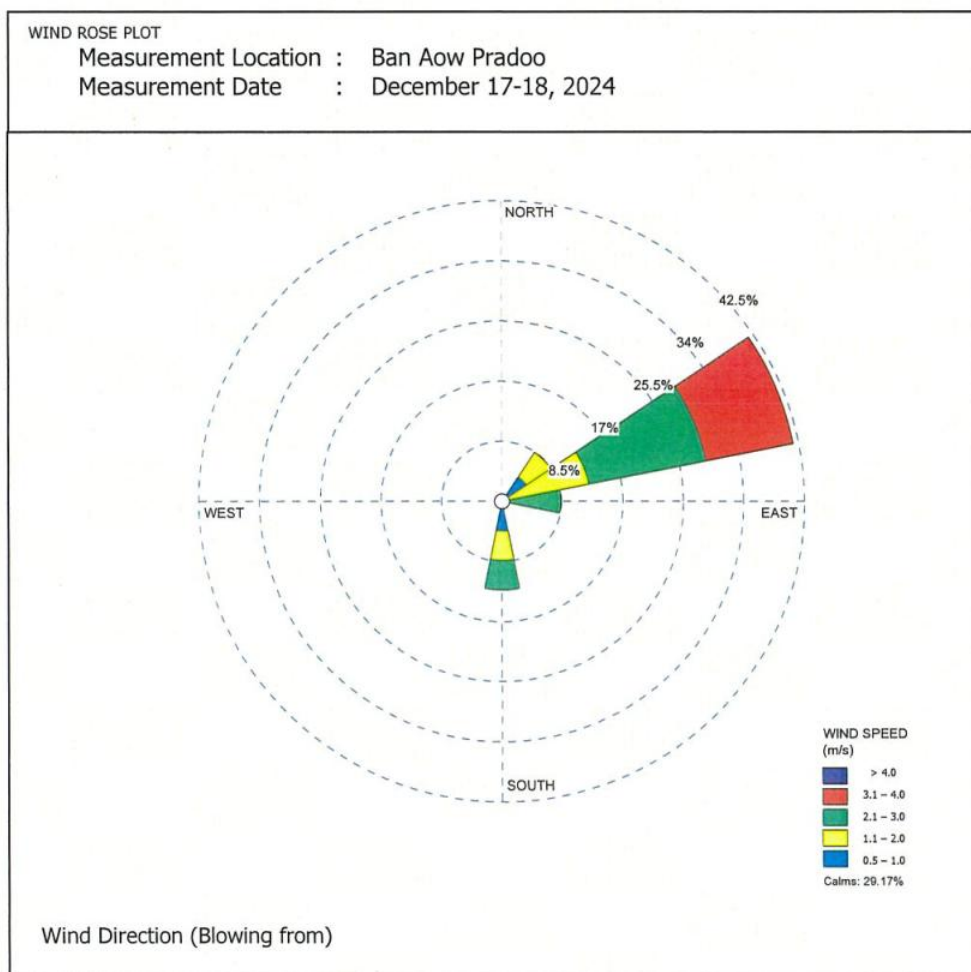
Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

MEASUREMENT DATE : December 17-18, 2024
MEASURED BY : [REDACTED]



[REDACTED]
 Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2024-500003145 / 002-6 (Page 1 of 3) Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2. I-8 Rd.. Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : December 17-18, 2024
MEASURED BY :

Location	TIME	December 17-18, 2024	
		WD	WS (m/s)
New CO Plant of BTC	09:00-10:00	E	1.8
	10:00-11:00	ENE	1.8
	11:00-12:00	ENE	1.8
	12:00-13:00	E	1.8
	13:00-14:00	E	1.8
	14:00-15:00	E	1.8
	15:00-16:00	E	3.1
	16:00-17:00	E	3.6
	17:00-18:00	E	3.1
	18:00-19:00	ENE	2.2
	19:00-20:00	ENE	1.3
	20:00-21:00	-	CALM
	21:00-22:00	ENE	0.9
	22:00-23:00	ENE	0.9
	23:00-00:00	E	0.9
	00:00-01:00	ENE	0.9
	01:00-02:00	NE	1.3
	02:00-03:00	ENE	1.3
	03:00-04:00	ENE	1.3
	04:00-05:00	ENE	1.3
	05:00-06:00	NE	1.3
	06:00-07:00	NE	1.3
	07:00-08:00	ENE	1.8
	08:00-09:00	NE	1.8

Measurement Method : - Wind speed and direction recording meter

Remarks :
 - WS = Wind Speed
 - WD = Wind Direction

Technical Manager

TY/RS/SV/SV

SGS (THAILAND) LIMITED



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Report No. : 2024-500003145 / 002-6 (Page 2 of 3) Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut. A. Muang. Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE** : December 17-18, 2024
MEASUREMENT LOCATION : New CO Plant of BTC **MEASURED BY** :
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	16.67	-	-	-
ENE	12.50	29.17	4.17	-	-
E	4.17	16.67	-	12.50	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	4.17				

Technical Manager

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SGS (THAILAND) LIMITED



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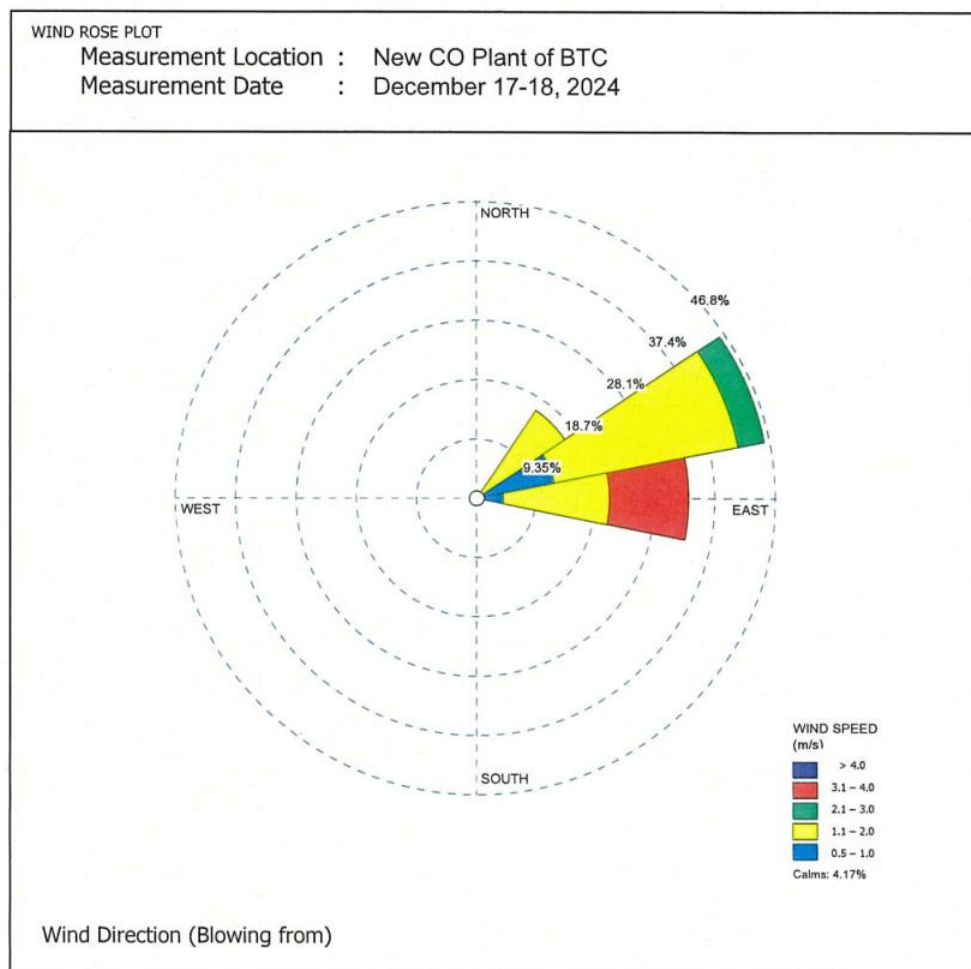
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Report No. : 2024-500003145 / 002-6 (Page 3 of 3) Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : December 17-18, 2024
MEASURED BY :



TY/RS/SV/SV



Technical Manager

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Report No. : 2024-500003145 / 002-7 (Page 1 of 3)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE :** December 17-18, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant **MEASURED BY :**
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	December 17-18, 2024	
		WD	WS (m/s)
In Front of Siam Yamato Steel Plant	09:00-10:00	NE	0.9
	10:00-11:00	NE	1.3
	11:00-12:00	NE	0.9
	12:00-13:00	ENE	1.3
	13:00-14:00	E	1.3
	14:00-15:00	E	1.3
	15:00-16:00	ESE	3.1
	16:00-17:00	ESE	2.7
	17:00-18:00	ESE	1.8
	18:00-19:00	-	CALM
	19:00-20:00	-	CALM
	20:00-21:00	-	CALM
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	NE	0.9
	01:00-02:00	NE	1.3
	02:00-03:00	NE	0.9
	03:00-04:00	-	CALM
	04:00-05:00	NE	1.3
	05:00-06:00	NE	1.3
	06:00-07:00	NE	1.3
	07:00-08:00	NE	1.8
	08:00-09:00	NE	1.3

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction

Technical Manager

TY/RS/SV/SV

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Report No. : 2024-500003145 / 002-7 (Page 2 of 3)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE :** December 17-18, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant **MEASURED BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	16.67	29.17	-	-	-
ENE	-	4.17	-	-	-
E	-	8.33	-	-	-
ESE	-	4.17	4.17	4.17	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	29.17				



Technical Manager

SGS (THAILAND) LIMITED



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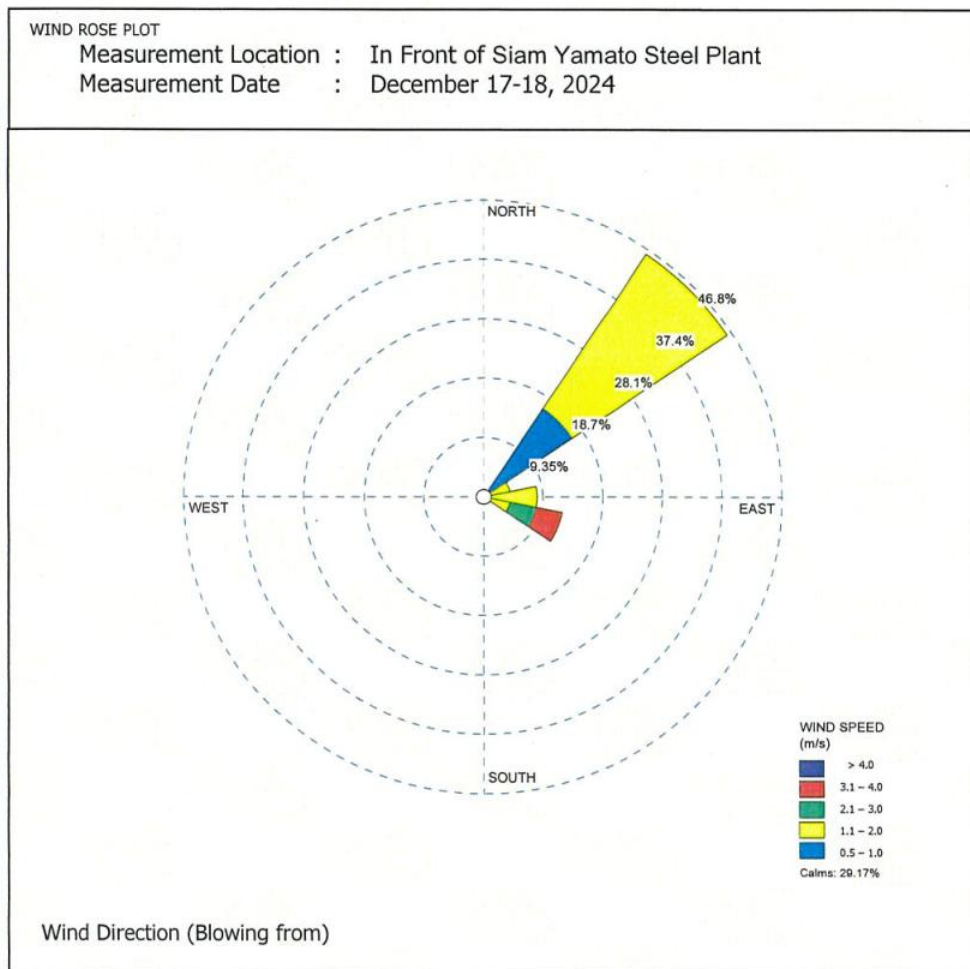
Report No. : 2024-500003145 / 002-7 (Page 3 of 3)

Issued date : January 10, 2025

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150
 Fax. 038-910-777 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT DATE : December 17-18, 2024
MEASUREMENT LOCATION : In Front of Siam Yamato Steel Plant
MEASURED BY : [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited



Technical Manager

SGS (THAILAND) LIMITED

TY/RS/SV/SV

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