

ระดับเสียงในสถานประกอบการ



Request No. LA65-R1162

Report No. R6511-2899

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : MMA_AMS Operator (K. Sarawut Sangsuwan)
 MEASURING DATE : 18/11/2022 SAMPLE NO. : 34112
 RECEIVED DATE : 18/11/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 22/11/2022

| PARAMETER* | RESULT | STANDARD | UNIT |
|---|--------|-------------------|-------|
| Time weighted average level (12-hr TWA) [#] | 77.7 | 83 ^{/1} | dB(A) |
| L _{max} 12 hr | 95.8 | 115 ^{/3} | dB(A) |
| 12 Hour dose | 28.00 | 100 ^{/2} | % |
| Time weighted average level (8-hr TWA) [#] | 79.5 | 85 ^{/1} | dB(A) |

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

22/11/2022

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Request No. LA65-R1051

Report No. R6510-1512

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : AN_PGU+AOG Operator (K. Arunsak Racha)
 MEASURING DATE : 20/10/2022 SAMPLE NO. : 30826
 RECEIVED DATE : 22/10/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 29/10/2022

| PARAMETER* | RESULT | STANDARD | UNIT |
|---|--------|-------------------|-------|
| Time weighted average level (12-hr TWA) [#] | 77.5 | 83 ^{/1} | dB(A) |
| L _{max} 12 hr | 95.5 | 115 ^{/3} | dB(A) |
| 12 Hour dose | 26.50 | 100 ^{/2} | % |
| Time weighted average level (8-hr TWA) [#] | 79.2 | 85 ^{/1} | dB(A) |

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

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Request No. LA65-R1051

Report No. R6510-1513

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : AN_Cooling Tower + Metering & Flare + Refrigeration Operator (K. Tiew Seekeaw)
 MEASURING DATE : 20/10/2022 SAMPLE NO. : 30827
 RECEIVED DATE : 22/10/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 29/10/2022

| PARAMETER* | RESULT | STANDARD | UNIT |
|---|--------|-------------------|-------|
| Time weighted average level (12-hr TWA) [#] | 76.7 | 83 ^{/1} | dB(A) |
| L _{max} 12 hr | 99.5 | 115 ^{/3} | dB(A) |
| 12 Hour dose | 22.00 | 100 ^{/2} | % |
| Time weighted average level (8-hr TWA) [#] | 78.4 | 85 ^{/1} | dB(A) |

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

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Request No. LA65-R1162

Report No. R6511-2900

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : AN_Recovery Operator (K. Montree Somkhua)
 MEASURING DATE : 18/11/2022 SAMPLE NO. : 34113
 RECEIVED DATE : 18/11/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 22/11/2022

| PARAMETER* | RESULT | STANDARD | UNIT |
|---|--------|-------------------|-------|
| Time weighted average level (12-hr TWA) [#] | 71.4 | 83 ^{/1} | dB(A) |
| L _{max} 12 hr | 91.6 | 115 ^{/3} | dB(A) |
| 12 Hour dose | 6.60 | 100 ^{/2} | % |
| Time weighted average level (8-hr TWA) [#] | 73.2 | 85 ^{/1} | dB(A) |

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

22/11/2022

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Request No. LA65-R1051

Report No. R6510-1515

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : AN_Reaction Operator (K. Piyapat Pengplang)
MEASURING DATE : 20/10/2022 SAMPLE NO. : 30829
RECEIVED DATE : 22/10/2022 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8886 REPORTED DATE : 29/10/2022

| PARAMETER* | RESULT | STANDARD | UNIT |
|---|--------|-------------------|-------|
| Time weighted average level (12-hr TWA) [#] | 78.0 | 83 ^{/1} | dB(A) |
| L _{max} 12 hr | 95.7 | 115 ^{/3} | dB(A) |
| 12 Hour dose | 30.20 | 100 ^{/2} | % |
| Time weighted average level (8-hr TWA) [#] | 79.8 | 85 ^{/1} | dB(A) |

REMARK :
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

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Request No. LA65-R1051

Report No. R6510-1516

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : AN_WWI Operator (K. Harin Inhom)
MEASURING DATE : 20/10/2022 SAMPLE NO. : 30830
RECEIVED DATE : 22/10/2022 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 29/10/2022

| PARAMETER* | RESULT | STANDARD | UNIT |
|---|--------|-------------------|-------|
| Time weighted average level (12-hr TWA) [#] | 73.6 | 83 ^{/1} | dB(A) |
| L _{max} 12 hr | 98.5 | 115 ^{/3} | dB(A) |
| 12 Hour dose | 10.90 | 100 ^{/2} | % |
| Time weighted average level (8-hr TWA) [#] | 75.4 | 85 ^{/1} | dB(A) |

REMARK :
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

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EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



Request No. LA65-R1051
Report No. R6510-1530

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohgrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : Control Room
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 30844
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 20/10/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/10/2022
S/N 01147298 : Type 2 REPORTED DATE : 29/10/2022

| MEASURING TIME | RESULT | | UNIT |
|-----------------|------------------|---------------------------------------|-------|
| | L_{eq} 1 hr. | L_{max} | |
| 07:00-08:00 | 64.6 | 76.6 | dB(A) |
| 08:00-09:00 | 63.8 | 75.6 | dB(A) |
| 09:00-10:00 | 64.1 | 73.8 | dB(A) |
| 10:00-11:00 | 62.0 | 74.0 | dB(A) |
| 11:00-12:00 | 63.5 | 75.9 | dB(A) |
| 12:00-13:00 | 60.5 | 73.5 | dB(A) |
| 13:00-14:00 | 61.5 | 74.2 | dB(A) |
| 14:00-15:00 | 62.6 | 78.6 | dB(A) |
| 15:00-16:00 | 61.3 | 71.1 | dB(A) |
| 16:00-17:00 | 61.5 | 72.4 | dB(A) |
| 17:00-18:00 | 63.9 | 75.1 | dB(A) |
| 18:00-19:00 | 61.8 | 72.3 | dB(A) |
| L_{eq} 12 hr. | 62.8 | — | dB(A) |
| Standard | 87 ^{/1} | 140 ^{/1} , 115 ^{/2} | dB(A) |

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)

^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA65-R1051
Report No. R6510-1527

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohgrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : Control Room
PARAMETER* : L_{eq} 1 hr., L_{eq} 8 hr. & L_{max} SAMPLE NO. : 30841
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 20/10/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/10/2022
S/N 01147298 : Type 2 REPORTED DATE : 29/10/2022

| MEASURING TIME | RESULT | | UNIT |
|----------------|------------------|---------------------------------------|-------|
| | L_{eq} 1 hr. | L_{max} | |
| 07:00-08:00 | 64.6 | 76.6 | dB(A) |
| 08:00-09:00 | 63.8 | 75.6 | dB(A) |
| 09:00-10:00 | 64.1 | 73.8 | dB(A) |
| 10:00-11:00 | 62.0 | 74.0 | dB(A) |
| 11:00-12:00 | 63.5 | 75.9 | dB(A) |
| 12:00-13:00 | 60.5 | 73.5 | dB(A) |
| 13:00-14:00 | 61.5 | 74.2 | dB(A) |
| 14:00-15:00 | 62.6 | 78.6 | dB(A) |
| L_{eq} 8 hr. | 63.0 | — | dB(A) |
| Standard | 90 ^{/1} | 140 ^{/1} , 115 ^{/2} | dB(A) |

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)

^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mr. Wattana Khotla)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022



Request No. LA65-R1051

Report No. R6510-1533

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.

ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150

SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.

SAMPLE POINT : Control Room

MEASURING DATE : 20/10/2022

SAMPLE NO. : 30847

PARAMETER* : Noise Octave Band

MEASURING TIME : 07:00-19:00

INSTRUMENT : Integrated Sound Level Meter

RECEIVED DATE : 22/10/2022

S/N 01147298

REPORTED DATE : 29/10/2022

| TIME FREQUENCY | RESULT [dB(A)] | | | | | | | | | | |
|-----------------------|----------------|------|-------|-------|-------|------|------|------|------|-------|------|
| | 31.5HZ | 63HZ | 125HZ | 250HZ | 500HZ | 1kHz | 2kHz | 4kHz | 8kHz | 16kHz | AP |
| 07:00-08:00 | 17.0 | 25.6 | 39.7 | 47.2 | 54.7 | 54.5 | 52.3 | 45.2 | 34.2 | 24.0 | 64.6 |
| 08:00-09:00 | 17.1 | 25.5 | 39.4 | 47.0 | 53.6 | 53.9 | 51.9 | 44.6 | 33.3 | 22.9 | 63.8 |
| 09:00-10:00 | 16.8 | 25.6 | 39.3 | 46.9 | 53.6 | 54.1 | 51.7 | 45.1 | 33.9 | 23.8 | 64.1 |
| 10:00-11:00 | 16.9 | 25.4 | 38.8 | 45.8 | 50.1 | 52.5 | 50.5 | 43.8 | 33.0 | 23.7 | 62.0 |
| 11:00-12:00 | 17.0 | 25.2 | 39.4 | 46.7 | 53.5 | 53.5 | 51.3 | 44.6 | 33.0 | 23.8 | 63.5 |
| 12:00-13:00 | 17.0 | 25.2 | 38.6 | 45.5 | 48.2 | 51.3 | 49.2 | 41.8 | 31.2 | 23.5 | 60.5 |
| 13:00-14:00 | 16.8 | 25.1 | 39.0 | 45.7 | 50.0 | 52.2 | 49.8 | 42.5 | 32.1 | 24.0 | 61.5 |
| 14:00-15:00 | 16.8 | 25.3 | 38.9 | 46.0 | 51.4 | 53.1 | 50.7 | 43.2 | 32.8 | 24.1 | 62.6 |
| 15:00-16:00 | 16.9 | 25.2 | 38.8 | 45.6 | 49.4 | 52.0 | 49.5 | 42.2 | 32.2 | 23.9 | 61.3 |
| 16:00-17:00 | 16.9 | 25.2 | 38.9 | 45.9 | 49.8 | 51.9 | 49.9 | 43.1 | 33.0 | 24.4 | 61.5 |
| 17:00-18:00 | 16.9 | 25.3 | 39.5 | 46.9 | 53.8 | 54.2 | 51.4 | 45.7 | 33.4 | 24.4 | 63.9 |
| 18:00-19:00 | 16.9 | 25.3 | 38.8 | 45.6 | 49.8 | 52.1 | 50.9 | 43.4 | 32.1 | 24.0 | 61.8 |
| L_{eq} | 16.9 | 25.3 | 39.1 | 46.3 | 52.0 | 53.1 | 50.9 | 43.9 | 32.9 | 23.9 | 62.8 |

REMARK : * Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Wattana Khotla)

ระดับเสียงตลอดช่วงความถี่ (AP)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

ACCREDITED
ISO 9001 / ISO 14001NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R1051

Report No. R6510-1532

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.

ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150

SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.

SAMPLE POINT : Compressor Room

PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 30846

DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/10/2022

INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/10/2022

S/N 01147298 : Type 2 REPORTED DATE : 29/10/2022

| MEASURING TIME | RESULT | | UNIT |
|------------------------|-----------------------|---------------------------------------|-------|
| | L _{eq} 1 hr. | L _{max} | |
| 07:00-08:00 | 64.4 | 70.5 | dB(A) |
| 08:00-09:00 | 64.2 | 69.6 | dB(A) |
| 09:00-10:00 | 64.2 | 74.5 | dB(A) |
| 10:00-11:00 | 64.3 | 67.4 | dB(A) |
| 11:00-12:00 | 64.1 | 69.0 | dB(A) |
| 12:00-13:00 | 63.9 | 66.4 | dB(A) |
| 13:00-14:00 | 63.8 | 68.3 | dB(A) |
| 14:00-15:00 | 63.8 | 66.1 | dB(A) |
| 15:00-16:00 | 63.9 | 73.8 | dB(A) |
| 16:00-17:00 | 64.0 | 67.5 | dB(A) |
| 17:00-18:00 | 64.4 | 68.2 | dB(A) |
| 18:00-19:00 | 64.3 | 69.5 | dB(A) |
| L _{eq} 12 hr. | 64.1 | — | dB(A) |
| Standard | 87 ^{/1} | 140 ^{/1} , 115 ^{/2} | dB(A) |

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mr. Wattana Khotla)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022



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NSC-TIS-TIS 17025
TESTING 0031

Request No. LA65-R1051

Report No. R6510-1528

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : Compressor Room
PARAMETER* : L_{eq} 1 hr., L_{eq} 8 hr. & L_{max} SAMPLE NO. : 30842
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/10/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/10/2022
S/N 01147298 : Type 2 REPORTED DATE : 29/10/2022

| MEASURING TIME | RESULT | | UNIT |
|----------------|------------------|---------------------------------------|-------|
| | L_{eq} 1 hr. | L_{max} | |
| 07:00-08:00 | 64.4 | 70.5 | dB(A) |
| 08:00-09:00 | 64.2 | 69.6 | dB(A) |
| 09:00-10:00 | 64.2 | 74.5 | dB(A) |
| 10:00-11:00 | 64.3 | 67.4 | dB(A) |
| 11:00-12:00 | 64.1 | 69.0 | dB(A) |
| 12:00-13:00 | 63.9 | 66.4 | dB(A) |
| 13:00-14:00 | 63.8 | 68.3 | dB(A) |
| 14:00-15:00 | 63.8 | 66.1 | dB(A) |
| L_{eq} 8 hr. | 64.1 | — | dB(A) |
| Standard | 90 ^{/1} | 140 ^{/1} , 115 ^{/2} | dB(A) |

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)

^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsonop is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mr. Wattana Khotla)



Approved By ..

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

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683 หมู่ 11 ต.สุภาพิบาล 8 อ.หนองขาม จ.ระยอง 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล : info@etc1992.com



EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA65-R1051

Report No. R6510-1535

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : Compressor Room
MEASURING DATE : 21/10/2022 SAMPLE NO. : 30849
PARAMETER* : Noise Octave Band MEASURING TIME : 07:00-19:00
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/10/2022
S/N 01147298 REPORTED DATE : 29/10/2022

| TIME FREQUENCY | RESULT [dB(A)] | | | | | | | | | | |
|-------------------|----------------|------|-------|-------|-------|------|------|------|------|-------|------|
| | 31.5HZ | 63HZ | 125HZ | 250HZ | 500HZ | 1kHz | 2kHz | 4kHz | 8kHz | 16kHz | AP |
| 07:00-08:00 | 20.0 | 39.9 | 46.0 | 48.8 | 49.5 | 50.8 | 51.1 | 53.3 | 42.8 | 24.1 | 64.4 |
| 08:00-09:00 | 20.6 | 40.0 | 44.8 | 48.4 | 49.0 | 50.7 | 51.2 | 53.2 | 42.5 | 24.1 | 64.2 |
| 09:00-10:00 | 20.3 | 39.9 | 44.4 | 48.3 | 48.9 | 50.3 | 51.3 | 53.2 | 42.6 | 24.1 | 64.2 |
| 10:00-11:00 | 21.8 | 41.0 | 44.9 | 48.6 | 48.9 | 50.3 | 51.3 | 53.3 | 43.0 | 26.1 | 64.3 |
| 11:00-12:00 | 22.6 | 39.7 | 44.4 | 48.4 | 48.8 | 50.2 | 51.4 | 53.1 | 42.6 | 24.6 | 64.1 |
| 12:00-13:00 | 19.6 | 38.9 | 44.2 | 48.0 | 48.7 | 50.5 | 51.4 | 52.9 | 42.5 | 24.0 | 63.9 |
| 13:00-14:00 | 19.9 | 39.5 | 44.3 | 47.9 | 48.7 | 50.8 | 51.1 | 52.9 | 42.6 | 23.9 | 63.8 |
| 14:00-15:00 | 21.4 | 38.8 | 44.4 | 47.6 | 48.8 | 50.6 | 51.4 | 52.7 | 42.4 | 23.8 | 63.8 |
| 15:00-16:00 | 22.4 | 38.7 | 44.6 | 47.7 | 48.9 | 50.8 | 51.5 | 52.9 | 42.9 | 24.9 | 63.9 |
| 16:00-17:00 | 21.6 | 39.3 | 44.7 | 48.1 | 48.9 | 50.3 | 51.4 | 52.9 | 42.7 | 24.7 | 64.0 |
| 17:00-18:00 | 20.3 | 40.1 | 45.2 | 48.8 | 49.1 | 50.6 | 51.4 | 53.4 | 43.1 | 27.2 | 64.4 |
| 18:00-19:00 | 20.6 | 40.7 | 45.0 | 48.7 | 49.0 | 50.5 | 51.3 | 53.3 | 42.9 | 25.4 | 64.3 |
| L_{eq} | 21.0 | 39.8 | 44.8 | 48.3 | 48.9 | 50.5 | 51.3 | 53.1 | 42.7 | 24.9 | 64.1 |

REMARK : * Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Wattana Khotla)

ระดับเสียงตลอดช่วงความถี่ (AP)



Approved By ..

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY



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Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R1051

Report No. R6510-1531

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : Cooling Tower
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 30845
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/10/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/10/2022
S/N 01147298 : Type 2 REPORTED DATE : 29/10/2022

| MEASURING TIME | RESULT | | UNIT |
|-----------------|------------------|---------------------------------------|-------|
| | L_{eq} 1 hr. | L_{max} | |
| 07:00-08:00 | 75.7 | 78.3 | dB(A) |
| 08:00-09:00 | 76.2 | 78.5 | dB(A) |
| 09:00-10:00 | 76.1 | 78.5 | dB(A) |
| 10:00-11:00 | 76.3 | 78.4 | dB(A) |
| 11:00-12:00 | 76.0 | 78.2 | dB(A) |
| 12:00-13:00 | 75.7 | 77.4 | dB(A) |
| 13:00-14:00 | 75.7 | 78.1 | dB(A) |
| 14:00-15:00 | 75.7 | 77.8 | dB(A) |
| 15:00-16:00 | 75.7 | 77.7 | dB(A) |
| 16:00-17:00 | 76.7 | 79.8 | dB(A) |
| 17:00-18:00 | 76.3 | 78.5 | dB(A) |
| 18:00-19:00 | 76.2 | 78.5 | dB(A) |
| L_{eq} 12 hr. | 76.0 | - | dB(A) |
| Standard | 87 ^{/1} | 140 ^{/1} , 115 ^{/2} | dB(A) |

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)

^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mr. Wattana Khotla)



Approved By ..

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

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NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R1051

Report No. R6510-1529

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : Cooling Tower
PARAMETER* : L_{eq} 1 hr., L_{eq} 8 hr. & L_{max} SAMPLE NO. : 30843
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/10/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/10/2022
S/N 01147298 : Type 2 REPORTED DATE : 29/10/2022

| MEASURING TIME | RESULT | | UNIT |
|----------------|------------------|---------------------------------------|-------|
| | L_{eq} 1 hr. | L_{max} | |
| 07:00-08:00 | 75.7 | 78.3 | dB(A) |
| 08:00-09:00 | 76.2 | 78.5 | dB(A) |
| 09:00-10:00 | 76.1 | 78.5 | dB(A) |
| 10:00-11:00 | 76.3 | 78.4 | dB(A) |
| 11:00-12:00 | 76.0 | 78.2 | dB(A) |
| 12:00-13:00 | 75.7 | 77.4 | dB(A) |
| 13:00-14:00 | 75.7 | 78.1 | dB(A) |
| 14:00-15:00 | 75.7 | 77.8 | dB(A) |
| L_{eq} 8 hr. | 75.9 | - | dB(A) |
| Standard | 90 ^{/1} | 140 ^{/1} , 115 ^{/2} | dB(A) |

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)

^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mr. Wattana Khotla)



Approved By ..

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022

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Request No. LA65-R1051

Report No. R6510-1534

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : Cooling Tower
 MEASURING DATE : 22/10/2022 SAMPLE NO. : 30848
 PARAMETER* : Noise Octave Band MEASURING TIME : 07:00-19:00
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/10/2022
 : S/N 01147298 REPORTED DATE : 29/10/2022

| TIME FREQUENCY | RESULT [dB(A)] | | | | | | | | | | |
|-------------------|----------------|------|-------|-------|-------|------|------|------|------|-------|------|
| | 31.5HZ | 63HZ | 125HZ | 250HZ | 500HZ | 1kHz | 2kHz | 4kHz | 8kHz | 16kHz | AP |
| 07:00-08:00 | 35.8 | 52.5 | 60.1 | 59.7 | 60.6 | 62.6 | 62.4 | 62.1 | 58.4 | 48.2 | 75.5 |
| 08:00-09:00 | 35.5 | 52.6 | 60.0 | 59.6 | 60.3 | 62.7 | 62.3 | 62.1 | 58.5 | 48.3 | 76.2 |
| 09:00-10:00 | 35.2 | 52.4 | 59.6 | 59.4 | 59.7 | 62.5 | 62.2 | 61.9 | 58.4 | 48.0 | 76.1 |
| 10:00-11:00 | 35.2 | 52.0 | 59.8 | 59.5 | 59.6 | 62.5 | 62.1 | 61.8 | 58.5 | 48.1 | 76.3 |
| 11:00-12:00 | 35.2 | 52.0 | 59.7 | 59.4 | 59.8 | 62.4 | 62.1 | 61.7 | 58.3 | 47.8 | 76.0 |
| 12:00-13:00 | 35.4 | 52.1 | 59.6 | 59.3 | 60.1 | 62.3 | 62.0 | 61.7 | 57.9 | 47.2 | 75.7 |
| 13:00-14:00 | 35.3 | 52.3 | 59.4 | 59.3 | 60.4 | 62.3 | 62.0 | 61.6 | 57.9 | 47.3 | 75.7 |
| 14:00-15:00 | 35.4 | 52.2 | 59.5 | 59.3 | 60.4 | 62.2 | 62.0 | 61.6 | 57.9 | 47.4 | 75.7 |
| 15:00-16:00 | 35.4 | 51.8 | 59.6 | 59.3 | 60.5 | 62.0 | 62.1 | 61.7 | 58.1 | 47.8 | 75.7 |
| 16:00-17:00 | 35.7 | 52.7 | 60.1 | 60.6 | 60.8 | 63.5 | 63.8 | 62.6 | 58.5 | 47.8 | 76.7 |
| 17:00-18:00 | 35.9 | 52.7 | 60.2 | 60.7 | 60.7 | 63.2 | 63.7 | 62.3 | 58.2 | 47.4 | 76.3 |
| 18:00-19:00 | 35.8 | 52.8 | 60.1 | 60.5 | 60.6 | 63.1 | 63.3 | 62.3 | 58.4 | 48.0 | 76.2 |
| L_{eq} | 35.5 | 52.4 | 59.5 | 59.7 | 60.3 | 62.6 | 62.6 | 62.0 | 58.3 | 47.8 | 76.0 |

REMARK : * Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Wattana Khotla)

ระดับเสียงตลอดช่วงความถี่ (AP)



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

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Approved By..

(MRS. WANPEN LHAOCHINDAWAT)

29/10/2022