

## ภาคผนวกที่ 3

ผลการวิเคราะห์คุณภาพสิ่งแวดล้อม

คุณภาพอากาศ



Ref. No. AR286(1)-AR286(7)/09/22

Report No. 2209/372

R-Pro-1010-4/2021

### Ambient Air Quality Analysis Report

Project : Ultra Clean Fule (UCF) Diesel Euro V  
Company : Hyundai Engineering Company  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling by : Mr.Titinan Ruengram  
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 8-15 September 2022  
Date Received : 19 September 2022  
Date of Analysis : 19-27 September 2022  
Date Reported : 29 September 2022

Parameter	Sampling Method	Analytical Method	DKT Area							Standard
			September 2022							
			8-9	9-10	10-11	11-12	12-13	13-14	14-15	
Total Suspended Particulate (mg/m <sup>3</sup> )	High Volume Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix B)	0.040	0.039	0.036	0.048	0.036	0.048	0.052	Less than 0.33
PM <sub>10</sub> (mg/m <sup>3</sup> )	High Volume PM <sub>10</sub> Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.016	0.015	0.014	0.020	0.013	0.024	0.023	Less than 0.12

**Remark:**

Standard = Ambient Air Quality Standards, Notification of the National Environment Board No. 24, B.E. 2547

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.

(Natchakamon Meerahan)

Laboratory Operator

29 / 09 / 22

(Phenpha Vipasthawatt)

Laboratory Supervisor

29 / 09 / 22

ความเร็วและทิศทางลม





RY0071/09/65

R-Pro-1010-4/2021

### Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	DKT				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	1-5 km/hr	6-11 km/hr	12-19 km/hr	20-28 km/hr	29-38 km/hr
N (349°-11°)	0.595	-	-	-	-
NNE (11°-34°)	-	-	-	-	-
NE (34°-56°)	1.786	-	-	-	-
ENE (56°-79°)	0.595	-	-	-	-
E (79°-102°)	-	-	-	-	-
ESE (102°-124°)	-	-	-	-	-
SE (124°-146°)	-	-	-	-	-
SSE (146°-169°)	-	-	-	-	-
S (169°-191°)	-	-	-	-	-
SSW (191°-214°)	7.143	3.571	-	-	-
SW (214°-236°)	11.310	14.286	-	-	-
WSW (236°-259°)	7.738	3.571	-	-	-
W (259°-281°)	6.548	-	-	-	-
WNW (281°-304°)	12.500	-	-	-	-
NW (304°-326°)	16.667	-	-	-	-
NNW (326°-349°)	13.690	-	-	-	-
Total	78.572	21.428	0.000	0.000	0.000
Calm (<1 km/hr)	0.000				

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



RY0071/09/65

R-Pro-1010-4/2021

## Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 8-15 September 2022  
Date Reported : 20 September 2022

Time	DKT							
	September 2022							
	8-9		9-10		10-11		11-12	
	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD
10:00-11:00	3.2	SSW	6.4	SW	1.6	NNW	3.2	NNW
11:00-12:00	6.4	SSW	6.4	SW	1.6	WSW	4.8	SSW
12:00-13:00	4.8	SSW	6.4	SW	1.6	WSW	3.2	NNW
13:00-14:00	1.6	SW	6.4	SW	4.8	SW	4.8	SW
14:00-15:00	1.6	SW	8.0	WSW	8.0	SW	3.2	SSW
15:00-16:00	1.6	SSW	9.7	WSW	8.0	SW	3.2	SSW
16:00-17:00	1.6	WNW	8.0	WSW	4.8	SW	4.8	SSW
17:00-18:00	3.2	WSW	6.4	SW	4.8	SSW	4.8	SSW
18:00-19:00	3.2	NW	6.4	SW	4.8	SSW	1.6	SW
19:00-20:00	3.2	NW	4.8	WSW	1.6	SSW	1.6	WSW
20:00-21:00	1.6	NW	3.2	WSW	1.6	WNW	1.6	WSW
21:00-22:00	3.2	NNW	4.8	SW	1.6	NW	1.6	NE
22:00-23:00	3.2	NNW	8.0	WSW	1.6	NW	3.2	NE
23:00-00:00	3.2	WNW	4.8	WSW	3.2	W	8.0	SW
00:00-01:00	1.6	WNW	6.4	SW	3.2	NNW	3.2	SW
01:00-02:00	1.6	WNW	8.0	SW	3.2	NW	6.4	SW
02:00-03:00	1.6	NW	3.2	NNW	3.2	NW	1.6	WSW
03:00-04:00	3.2	WNW	1.6	NNW	1.6	WNW	1.6	WSW
04:00-05:00	3.2	NW	3.2	NW	1.6	WNW	1.6	WNW
05:00-06:00	3.2	NW	3.2	W	1.6	W	3.2	WNW
06:00-07:00	1.6	NW	3.2	NNW	3.2	W	1.6	NW
07:00-08:00	1.6	NW	3.2	NNW	3.2	NNW	1.6	NW
08:00-09:00	3.2	SW	3.2	SW	4.8	NNW	3.2	NNW
09:00-10:00	4.8	SW	4.8	SW	3.2	NNW	3.2	NNW
Temperature Average (°C)	26.4		29.3		28.6		28.6	
Barometric Pressure Average (mmHg)	757.98		758.01		757.88		757.39	
Sky Condition	Cloudy and Rainy		Fair		Fair		Cloudy and Rainy	

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Darin Thongsri)

Scientist

20 / 09 / 22

Technical Supervisor

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### Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	DKT					
	September 2022					
	12-13		13-14		14-15	
	WS (km/hr)	WD	WS (km/hr)	WD	Fair	WD
10:00-11:00	3.2	NNW	8.0	SW	6.4	SW
11:00-12:00	8.0	SW	8.0	SW	6.4	SW
12:00-13:00	8.0	SW	3.2	NNW	9.7	SW
13:00-14:00	4.8	SW	3.2	NW	8.0	SW
14:00-15:00	3.2	NNW	1.6	NNW	8.0	SW
15:00-16:00	1.6	W	1.6	NW	6.4	SSW
16:00-17:00	1.6	NNW	1.6	NW	8.0	SSW
17:00-18:00	1.6	NNW	3.2	W	8.0	SSW
18:00-19:00	1.6	NW	3.2	NW	8.0	WSW
19:00-20:00	3.2	WNW	3.2	ENE	6.4	WSW
20:00-21:00	4.8	N	1.6	NNW	4.8	WSW
21:00-22:00	4.8	NW	1.6	NE	4.8	W
22:00-23:00	3.2	WNW	1.6	SW	3.2	W
23:00-00:00	3.2	NW	4.8	WSW	3.2	SW
00:00-01:00	4.8	NW	3.2	WNW	4.8	SW
01:00-02:00	4.8	WNW	1.6	WNW	1.6	WNW
02:00-03:00	3.2	NW	1.6	WNW	1.6	WSW
03:00-04:00	3.2	WNW	1.6	WNW	3.2	W
04:00-05:00	1.6	WNW	3.2	NW	3.2	NW
05:00-06:00	1.6	WNW	3.2	SW	1.6	NW
06:00-07:00	1.6	W	1.6	W	1.6	SSW
07:00-08:00	1.6	NW	1.6	NNW	6.4	SSW
08:00-09:00	3.2	SW	3.2	SW	6.4	SSW
09:00-10:00	6.4	SW	6.4	SW	6.4	SW
Temperature Average (°C)	27.5		27.4		29.1	
Barometric Pressure Average (mmHg)	757.36		758.02		758.08	
Sky Condition	Cloudy and Rainy		Fair		Fair	

Reported results refer to measurement time only.

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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22

ระดับเสียง



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	8-9		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	74.5	72.8	94.0
15:00-16:00	73.8		
16:00-17:00	72.9		
17:00-18:00	72.4		
18:00-19:00	72.2		
19:00-20:00	71.9		
20:00-21:00	72.0		
21:00-22:00	72.0		
22:00-23:00	72.3	73.1	88.2
23:00-00:00	72.4		
00:00-01:00	75.1		
01:00-02:00	72.4		
02:00-03:00	73.0		
03:00-04:00	73.0		
04:00-05:00	72.9		
05:00-06:00	72.6		
06:00-07:00	71.7	72.5	93.9
07:00-08:00	72.5		
08:00-09:00	74.6		
09:00-10:00	72.8		
10:00-11:00	72.5		
11:00-12:00	71.0		
12:00-13:00	71.9		
13:00-14:00	71.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R46)	ACO	6236	00192058
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22





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R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	9-10		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	72.0	71.8	87.4
15:00-16:00	72.2		
16:00-17:00	72.7		
17:00-18:00	71.7		
18:00-19:00	71.6		
19:00-20:00	71.5		
20:00-21:00	71.2		
21:00-22:00	71.4		
22:00-23:00	71.5	72.9	88.1
23:00-00:00	73.9		
00:00-01:00	72.9		
01:00-02:00	75.1		
02:00-03:00	73.6		
03:00-04:00	72.3		
04:00-05:00	71.3		
05:00-06:00	71.2		
06:00-07:00	71.4	71.5	89.5
07:00-08:00	71.7		
08:00-09:00	71.7		
09:00-10:00	71.8		
10:00-11:00	71.7		
11:00-12:00	71.2		
12:00-13:00	71.0		
13:00-14:00	71.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R46)	ACO	6236	00192058
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

**Remark:**

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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Scientist  
20 / 09 / 22



Technical Supervisor  
20 / 09 / 22



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7 Soi Phaholyothin 24, Phaholyothin Rd., Jompol, Chatuchak, Bangkok 10900  
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RY0071/09/65

R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area			
	September 2022			
	10-11			
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]		L <sub>max</sub> [dB(A)]
14:00-15:00	72.2	71.9		85.4
15:00-16:00	72.0			
16:00-17:00	71.9			
17:00-18:00	71.4			
18:00-19:00	71.8			
19:00-20:00	71.9			
20:00-21:00	71.9			
21:00-22:00	72.4			
22:00-23:00	71.8	72.4		88.0
23:00-00:00	74.3			
00:00-01:00	73.2			
01:00-02:00	72.0			
02:00-03:00	71.6			
03:00-04:00	71.3			
04:00-05:00	71.1			
05:00-06:00	72.9			
06:00-07:00	71.3	71.4		86.3
07:00-08:00	71.3			
08:00-09:00	71.9			
09:00-10:00	71.7			
10:00-11:00	71.7			
11:00-12:00	71.0			
12:00-13:00	70.8			
13:00-14:00	71.3			
Standard		Less Than 90.0		Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data				
Calibrate Sheet No.: Noise R_461/22			07 September 2022	
Equipment	Brand	Model	Serial No.	Standard
Sound Level Meter (No.R46)	ACO	6236	00192058	IEC 61672
Actual Reading [dB]				
Before Adjustment			After Adjustment	
94.0			94.0	

### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

Scientist

20, 09, 22

Technical Supervisor

20, 09, 22





บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
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## Noise Level Report

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	11-12		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	72.4	72.7	85.7
15:00-16:00	72.3		
16:00-17:00	72.5		
17:00-18:00	73.1		
18:00-19:00	72.5		
19:00-20:00	71.1		
20:00-21:00	71.3		
21:00-22:00	75.3		
22:00-23:00	75.6	72.8	88.4
23:00-00:00	73.8		
00:00-01:00	71.3		
01:00-02:00	71.4		
02:00-03:00	72.3		
03:00-04:00	71.6		
04:00-05:00	72.0		
05:00-06:00	72.3		
06:00-07:00	72.0	72.4	88.6
07:00-08:00	71.9		
08:00-09:00	72.3		
09:00-10:00	72.2		
10:00-11:00	73.8		
11:00-12:00	72.0		
12:00-13:00	71.7		
13:00-14:00	73.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R46)	ACO	6236	00192058
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

### Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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Scientist  
20/09/22

Technical Supervisor  
20/09/22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	12-13		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	75.0	72.8	91.4
15:00-16:00	74.8		
16:00-17:00	72.0		
17:00-18:00	72.1		
18:00-19:00	71.6		
19:00-20:00	71.9		
20:00-21:00	72.0		
21:00-22:00	71.4		
22:00-23:00	71.6	71.9	87.2
23:00-00:00	71.5		
00:00-01:00	71.4		
01:00-02:00	71.3		
02:00-03:00	74.2		
03:00-04:00	71.2		
04:00-05:00	72.0		
05:00-06:00	71.4		
06:00-07:00	71.6	71.9	90.1
07:00-08:00	71.6		
08:00-09:00	72.6		
09:00-10:00	72.3		
10:00-11:00	72.7		
11:00-12:00	71.3		
12:00-13:00	70.5		
13:00-14:00	72.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R46)	ACO	6236	00192058
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Darin Thongsri)

Scientist  
20/09/22

Technical Supervisor  
20/09/22



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
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RY0071/09/65

R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	13-14		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	73.2	72.3	98.0
15:00-16:00	73.7		
16:00-17:00	71.8		
17:00-18:00	72.9		
18:00-19:00	71.8		
19:00-20:00	71.4		
20:00-21:00	71.9		
21:00-22:00	71.3		
22:00-23:00	71.9	72.6	87.4
23:00-00:00	71.2		
00:00-01:00	72.9		
01:00-02:00	74.5		
02:00-03:00	74.3		
03:00-04:00	71.1		
04:00-05:00	72.2		
05:00-06:00	71.5		
06:00-07:00	72.0	71.7	88.8
07:00-08:00	71.8		
08:00-09:00	72.0		
09:00-10:00	72.0		
10:00-11:00	71.9		
11:00-12:00	71.0		
12:00-13:00	71.5		
13:00-14:00	71.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R46)	ACO	6236	00192058
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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Scientist  
20 / 09 / 22

Technical Supervisor  
20 / 09 / 22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	14-15		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	74.1	71.9	90.8
15:00-16:00	72.5		
16:00-17:00	71.6		
17:00-18:00	71.2		
18:00-19:00	70.8		
19:00-20:00	71.9		
20:00-21:00	71.0		
21:00-22:00	70.7		
22:00-23:00	70.8	71.7	88.7
23:00-00:00	74.2		
00:00-01:00	71.1		
01:00-02:00	71.0		
02:00-03:00	71.3		
03:00-04:00	71.5		
04:00-05:00	71.4		
05:00-06:00	71.5		
06:00-07:00	71.5	71.8	93.9
07:00-08:00	71.3		
08:00-09:00	71.1		
09:00-10:00	72.6		
10:00-11:00	72.3		
11:00-12:00	72.1		
12:00-13:00	70.9		
13:00-14:00	72.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R46)	ACO	6236	00192058
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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(Darin Thongsri)

Scientist

20/09/22

(Kitti Srithonglor)

Technical Supervisor

20/09/22



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RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	8-9		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	73.0	71.8	96.4
15:00-16:00	72.8		
16:00-17:00	72.4		
17:00-18:00	71.3		
18:00-19:00	71.4		
19:00-20:00	70.9		
20:00-21:00	71.0		
21:00-22:00	71.2		
22:00-23:00	71.4	71.4	84.4
23:00-00:00	71.1		
00:00-01:00	72.8		
01:00-02:00	70.9		
02:00-03:00	71.3		
03:00-04:00	71.3		
04:00-05:00	71.3		
05:00-06:00	71.2		
06:00-07:00	71.1	71.8	99.0
07:00-08:00	72.4		
08:00-09:00	73.5		
09:00-10:00	72.7		
10:00-11:00	71.4		
11:00-12:00	70.5		
12:00-13:00	70.4		
13:00-14:00	71.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R39)	ACO	6236	00192051
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

#### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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(Darin Thongsri)

Scientist

20 / 09 / 22

(Kitti Sittonglor)

Technical Supervisor

20 / 09 / 22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	9-10		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	68.8	70.8	92.4
15:00-16:00	71.6		
16:00-17:00	72.1		
17:00-18:00	71.2		
18:00-19:00	70.7		
19:00-20:00	70.5		
20:00-21:00	70.5		
21:00-22:00	70.6		
22:00-23:00	70.9	71.4	83.8
23:00-00:00	72.6		
00:00-01:00	71.8		
01:00-02:00	72.6		
02:00-03:00	71.4		
03:00-04:00	70.8		
04:00-05:00	70.4		
05:00-06:00	70.4		
06:00-07:00	70.5	71.6	87.1
07:00-08:00	71.9		
08:00-09:00	73.3		
09:00-10:00	71.8		
10:00-11:00	71.5		
11:00-12:00	70.7		
12:00-13:00	69.2		
13:00-14:00	72.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R39)	ACO	6236	00192051
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

#### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Scientist  
20 / 09 / 22

Technical Supervisor  
20 / 09 / 22



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R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area				
	September 2022				
	10-11				
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]		L <sub>max</sub> [dB(A)]	
14:00-15:00	72.9	71.4		91.8	
15:00-16:00	71.9				
16:00-17:00	71.2				
17:00-18:00	71.2				
18:00-19:00	70.9				
19:00-20:00	70.8				
20:00-21:00	70.8				
21:00-22:00	71.3	70.8		83.6	
22:00-23:00	71.0				
23:00-00:00	72.1				
00:00-01:00	71.2				
01:00-02:00	70.6				
02:00-03:00	70.3				
03:00-04:00	70.0				
04:00-05:00	70.0	71.3		91.1	
05:00-06:00	70.9				
06:00-07:00	70.1				
07:00-08:00	70.5				
08:00-09:00	72.0				
09:00-10:00	72.2				
10:00-11:00	72.0				
11:00-12:00	70.7	Less Than 90.0		Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>	
12:00-13:00	70.0				
13:00-14:00	71.9				
Standard		Less Than 90.0		Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>	
Sound Level Meter Data					
Calibrate Sheet No.: Noise R_461/22			07 September 2022		
Equipment	Brand	Model	Serial No.	Standard	
Sound Level Meter (No.R39)	ACO	6236	00192051	IEC 61672	
Actual Reading [dB]					
Before Adjustment		After Adjustment			
94.1		94.0			

### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22





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R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	11-12		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	72.7	71.4	93.2
15:00-16:00	71.1		
16:00-17:00	71.2		
17:00-18:00	71.2		
18:00-19:00	70.7		
19:00-20:00	70.3		
20:00-21:00	70.9		
21:00-22:00	72.8	71.9	91.8
22:00-23:00	73.0		
23:00-00:00	72.2		
00:00-01:00	71.1		
01:00-02:00	71.4		
02:00-03:00	72.4		
03:00-04:00	71.2		
04:00-05:00	71.9	72.8	96.7
05:00-06:00	71.6		
06:00-07:00	71.3		
07:00-08:00	72.1		
08:00-09:00	72.5		
09:00-10:00	72.5		
10:00-11:00	74.5		
11:00-12:00	72.5	71.5	91.5
12:00-13:00	71.5		
13:00-14:00	74.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R39)	ACO	6236	00192051
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

### Remark:

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Sampling Method = Sound Level Meter

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Scientist

20/09/22

Technical Supervisor

20/09/22



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R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 20 September 2022  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	12-13		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	76.8	73.4	96.1
15:00-16:00	75.7		
16:00-17:00	72.6		
17:00-18:00	72.1		
18:00-19:00	71.5		
19:00-20:00	71.8		
20:00-21:00	71.7		
21:00-22:00	71.2		
22:00-23:00	71.5	71.2	83.8
23:00-00:00	70.9		
00:00-01:00	70.7		
01:00-02:00	70.8		
02:00-03:00	72.3		
03:00-04:00	70.9		
04:00-05:00	71.2		
05:00-06:00	70.8		
06:00-07:00	70.8	73.7	97.7
07:00-08:00	72.3		
08:00-09:00	75.8		
09:00-10:00	75.2		
10:00-11:00	75.7		
11:00-12:00	72.5		
12:00-13:00	70.4		
13:00-14:00	72.9		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R39)	ACO	6236	00192051
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

### Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Darin Thongsri)

Scientist

10 / 09 / 22

(Rita Srimongkol)

Technical Supervisor

20 / 09 / 22





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RY0071/09/65

R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 20 September 2022  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	13-14		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	75.1	72.8	100.0
15:00-16:00	75.1		
16:00-17:00	71.7		
17:00-18:00	72.2		
18:00-19:00	72.4		
19:00-20:00	71.1		
20:00-21:00	71.3		
21:00-22:00	70.8		
22:00-23:00	71.3	71.5	83.9
23:00-00:00	71.2		
00:00-01:00	71.6		
01:00-02:00	71.8		
02:00-03:00	72.3		
03:00-04:00	70.8		
04:00-05:00	71.5		
05:00-06:00	71.1		
06:00-07:00	70.9	72.3	95.2
07:00-08:00	71.5		
08:00-09:00	72.6		
09:00-10:00	72.8		
10:00-11:00	73.3		
11:00-12:00	72.0		
12:00-13:00	71.5		
13:00-14:00	73.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R39)	ACO	6236	00192051
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

### Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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(Darin Thongsri)

Scientist

20 / 09 / 22

(Kitti Srithonglor)

Technical Supervisor

20 / 09 / 22



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7/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	14-15		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	76.0	72.7	92.5
15:00-16:00	74.0		
16:00-17:00	72.5		
17:00-18:00	72.0		
18:00-19:00	70.6		
19:00-20:00	72.0		
20:00-21:00	71.0		
21:00-22:00	70.7		
22:00-23:00	70.6	71.2	87.5
23:00-00:00	72.5		
00:00-01:00	71.3		
01:00-02:00	71.2		
02:00-03:00	71.0		
03:00-04:00	70.8		
04:00-05:00	70.8		
05:00-06:00	71.2		
06:00-07:00	71.5	73.0	100.7
07:00-08:00	71.0		
08:00-09:00	71.2		
09:00-10:00	74.2		
10:00-11:00	74.7		
11:00-12:00	74.9		
12:00-13:00	71.0		
13:00-14:00	72.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R39)	ACO	6236	00192051
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

#### Remark:

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Sampling Method = Sound Level Meter

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(Darin Thongsri)

Scientist

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(Kitti Srithonglor)

Technical Supervisor

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R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	8-9		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	72.1	69.7	103.8
15:00-16:00	70.3		
16:00-17:00	72.8		
17:00-18:00	67.9		
18:00-19:00	68.8		
19:00-20:00	67.0		
20:00-21:00	67.2		
21:00-22:00	67.1	67.0	86.7
22:00-23:00	67.1		
23:00-00:00	66.4		
00:00-01:00	66.8		
01:00-02:00	66.3		
02:00-03:00	67.0		
03:00-04:00	67.1		
04:00-05:00	67.5	70.5	99.7
05:00-06:00	67.9		
06:00-07:00	67.5		
07:00-08:00	70.2		
08:00-09:00	74.0		
09:00-10:00	71.5		
10:00-11:00	69.0		
11:00-12:00	69.4		
12:00-13:00	67.7		
13:00-14:00	70.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R26)	ACO	6236	00192038
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Sampling Method = Sound Level Meter

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R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	9-10		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	71.1	69.4	95.8
15:00-16:00	69.3		
16:00-17:00	69.6		
17:00-18:00	69.4		
18:00-19:00	69.0		
19:00-20:00	68.0		
20:00-21:00	69.1		
21:00-22:00	68.8		
22:00-23:00	68.9	68.7	89.4
23:00-00:00	69.6		
00:00-01:00	68.8		
01:00-02:00	68.6		
02:00-03:00	68.1		
03:00-04:00	68.2		
04:00-05:00	68.2		
05:00-06:00	68.5		
06:00-07:00	68.6	69.5	93.9
07:00-08:00	70.3		
08:00-09:00	70.0		
09:00-10:00	70.0		
10:00-11:00	69.6		
11:00-12:00	69.5		
12:00-13:00	68.0		
13:00-14:00	69.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R26)	ACO	6236	00192038
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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(Darin Thongsri)

Scientist

20/09/22

Technical Supervisor

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3/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	10-11		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	70.1	68.6	96.4
15:00-16:00	68.6		
16:00-17:00	68.6		
17:00-18:00	68.6		
18:00-19:00	68.3		
19:00-20:00	67.7		
20:00-21:00	67.8		
21:00-22:00	68.4		
22:00-23:00	68.2	68.2	85.3
23:00-00:00	69.1		
00:00-01:00	68.3		
01:00-02:00	68.4		
02:00-03:00	68.2		
03:00-04:00	67.7		
04:00-05:00	67.7		
05:00-06:00	68.0		
06:00-07:00	67.9	71.1	93.6
07:00-08:00	68.6		
08:00-09:00	73.4		
09:00-10:00	73.2		
10:00-11:00	73.3		
11:00-12:00	69.9		
12:00-13:00	65.9		
13:00-14:00	70.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R26)	ACO	6236	00192038
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Scientist

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(Kitti Srithonglor)

Technical Supervisor

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4/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	11-12		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	72.3	67.9	94.5
15:00-16:00	67.3		
16:00-17:00	66.9		
17:00-18:00	65.6		
18:00-19:00	65.8		
19:00-20:00	66.1		
20:00-21:00	66.9		
21:00-22:00	67.1		
22:00-23:00	67.3	67.1	89.2
23:00-00:00	67.2		
00:00-01:00	66.6		
01:00-02:00	66.9		
02:00-03:00	67.7		
03:00-04:00	66.5		
04:00-05:00	67.4		
05:00-06:00	67.1		
06:00-07:00	67.3	71.8	92.9
07:00-08:00	72.0		
08:00-09:00	73.4		
09:00-10:00	73.1		
10:00-11:00	74.3		
11:00-12:00	71.2		
12:00-13:00	68.2		
13:00-14:00	70.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R26)	ACO	6236	00192038
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Sampling Method = Sound Level Meter

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(Darn Thongsri)

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	12-13		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	71.6	69.1	100.4
15:00-16:00	71.1		
16:00-17:00	70.4		
17:00-18:00	68.7		
18:00-19:00	67.1		
19:00-20:00	67.0		
20:00-21:00	67.0		
21:00-22:00	66.5		
22:00-23:00	66.0	65.9	78.4
23:00-00:00	65.5		
00:00-01:00	65.7		
01:00-02:00	65.8		
02:00-03:00	66.3		
03:00-04:00	65.9		
04:00-05:00	66.2		
05:00-06:00	66.0		
06:00-07:00	66.0	68.8	99.0
07:00-08:00	67.4		
08:00-09:00	70.2		
09:00-10:00	70.7		
10:00-11:00	69.8		
11:00-12:00	68.5		
12:00-13:00	66.0		
13:00-14:00	68.9		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R26)	ACO	6236	00192038
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Darin Thongsri)

Scientist

10/09/22

(Kitti Sritongtor)

Technical Supervisor

10/09/22



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
S.P.S. CONSULTING SERVICE CO., LTD.  
7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900  
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RY0071/09/65

R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	13-14		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	69.2	69.2	95.7
15:00-16:00	70.1		
16:00-17:00	70.1		
17:00-18:00	69.8		
18:00-19:00	70.7		
19:00-20:00	67.3		
20:00-21:00	67.3		
21:00-22:00	67.0		
22:00-23:00	67.1	67.3	81.0
23:00-00:00	67.4		
00:00-01:00	67.1		
01:00-02:00	67.1		
02:00-03:00	67.6		
03:00-04:00	67.0		
04:00-05:00	67.6		
05:00-06:00	67.3		
06:00-07:00	67.4	68.0	87.8
07:00-08:00	67.5		
08:00-09:00	68.3		
09:00-10:00	68.2		
10:00-11:00	68.2		
11:00-12:00	67.8		
12:00-13:00	67.9		
13:00-14:00	68.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R26)	ACO	6236	00192038
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

### Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

[Redacted Signature]

Scientist  
20/09/22

[Redacted Signature]

(Kitti Srithonglor)  
Technical Supervisor  
20/09/22





บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
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7/7

RY0071/09/65

R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 20 September 2022  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	14-15		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	69.7	69.2	94.3
15:00-16:00	69.7		
16:00-17:00	69.9		
17:00-18:00	71.2		
18:00-19:00	67.8		
19:00-20:00	70.1		
20:00-21:00	66.2		
21:00-22:00	66.1	66.8	87.6
22:00-23:00	65.9		
23:00-00:00	67.8		
00:00-01:00	67.0		
01:00-02:00	66.7		
02:00-03:00	66.5		
03:00-04:00	66.4		
04:00-05:00	66.6		
05:00-06:00	67.1	68.5	95.1
06:00-07:00	67.4		
07:00-08:00	67.1		
08:00-09:00	68.6		
09:00-10:00	70.0		
10:00-11:00	69.8		
11:00-12:00	69.3		
12:00-13:00	67.6		
13:00-14:00	67.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R26)	ACO	6236	00192038
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

### Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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(Darin Thongsri)

Scientist

20, 09, 22

(Kitti Srithonglor)

Technical Supervisor

20, 09, 22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	8-9		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	70.7	69.3	89.3
15:00-16:00	69.5		
16:00-17:00	69.3		
17:00-18:00	69.0		
18:00-19:00	69.1		
19:00-20:00	68.9		
20:00-21:00	68.9		
21:00-22:00	69.0	68.4	83.5
22:00-23:00	69.2		
23:00-00:00	68.4		
00:00-01:00	68.7		
01:00-02:00	68.1		
02:00-03:00	68.2		
03:00-04:00	68.2		
04:00-05:00	68.3		
05:00-06:00	68.4	70.5	102.9
06:00-07:00	68.4		
07:00-08:00	70.2		
08:00-09:00	71.4		
09:00-10:00	71.4		
10:00-11:00	71.6		
11:00-12:00	69.2		
12:00-13:00	68.0		
13:00-14:00	72.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R38)	ACO	6236	00192050
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

Scientist

20/09/22

Technical Supervisor

20/09/22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	9-10		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	69.9	69.5	107.5
15:00-16:00	72.8		
16:00-17:00	71.1		
17:00-18:00	68.8		
18:00-19:00	67.4		
19:00-20:00	67.6		
20:00-21:00	67.5		
21:00-22:00	67.4		
22:00-23:00	67.4	68.1	82.1
23:00-00:00	68.0		
00:00-01:00	68.0		
01:00-02:00	68.0		
02:00-03:00	67.6		
03:00-04:00	68.3		
04:00-05:00	68.7		
05:00-06:00	68.8		
06:00-07:00	68.8	70.5	100.4
07:00-08:00	70.4		
08:00-09:00	72.8		
09:00-10:00	72.0		
10:00-11:00	71.4		
11:00-12:00	69.0		
12:00-13:00	67.9		
13:00-14:00	69.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R38)	ACO	6236	00192050
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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(Darin Thongsri)

Scientist

20 / 09 / 22

(Kitti Srithonglor)

Technical Supervisor

20 / 09 / 22



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3/7

RY0071/09/65

R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 20 September 2022  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	10-11		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	75.9	72.1	103.9
15:00-16:00	75.0		
16:00-17:00	74.6		
17:00-18:00	68.4		
18:00-19:00	67.7		
19:00-20:00	67.5		
20:00-21:00	67.5		
21:00-22:00	67.6		
22:00-23:00	67.7	67.7	91.5
23:00-00:00	67.7		
00:00-01:00	67.5		
01:00-02:00	67.7		
02:00-03:00	67.7		
03:00-04:00	67.6		
04:00-05:00	67.8		
05:00-06:00	68.2		
06:00-07:00	67.9	71.0	106.5
07:00-08:00	68.3		
08:00-09:00	71.0		
09:00-10:00	73.7		
10:00-11:00	74.4		
11:00-12:00	68.4		
12:00-13:00	67.4		
13:00-14:00	71.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R38)	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

### Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Scientist  
20/09/22



Technical Supervisor  
20/09/22





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4/7

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R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	11-12		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	73.6	69.3	104.2
15:00-16:00	70.4		
16:00-17:00	67.5		
17:00-18:00	67.5		
18:00-19:00	67.5		
19:00-20:00	67.3		
20:00-21:00	67.5		
21:00-22:00	67.8		
22:00-23:00	67.9	69.6	87.4
23:00-00:00	68.3		
00:00-01:00	67.9		
01:00-02:00	71.2		
02:00-03:00	72.9		
03:00-04:00	68.6		
04:00-05:00	68.5		
05:00-06:00	68.3		
06:00-07:00	68.7	71.6	102.8
07:00-08:00	69.4		
08:00-09:00	71.9		
09:00-10:00	75.3		
10:00-11:00	73.7		
11:00-12:00	69.5		
12:00-13:00	67.9		
13:00-14:00	70.9		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R38)	ACO	6236	00192050
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

### Remark:

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Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
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5/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	12-13		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	76.4	72.8	98.6
15:00-16:00	76.7		
16:00-17:00	74.1		
17:00-18:00	69.0		
18:00-19:00	68.5		
19:00-20:00	69.1		
20:00-21:00	68.0		
21:00-22:00	67.7		
22:00-23:00	67.8	67.9	78.8
23:00-00:00	67.8		
00:00-01:00	67.8		
01:00-02:00	67.7		
02:00-03:00	68.2		
03:00-04:00	67.9		
04:00-05:00	68.1		
05:00-06:00	68.0		
06:00-07:00	68.1	72.5	101.5
07:00-08:00	69.3		
08:00-09:00	71.5		
09:00-10:00	76.3		
10:00-11:00	75.9		
11:00-12:00	70.4		
12:00-13:00	65.9		
13:00-14:00	71.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R38)	ACO	6236	00192050
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Notification of the Ministry of Industry, B.E. 2546 (2003)

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



Scientist

20 / 09 / 21



(Kitti Srithonglor)

Technical Supervisor

26 / 09 / 22





บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
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RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	13-14		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
14:00-15:00	77.0	72.3	107.3
15:00-16:00	75.1		
16:00-17:00	72.6		
17:00-18:00	69.4		
18:00-19:00	68.6		
19:00-20:00	68.4		
20:00-21:00	68.3		
21:00-22:00	67.8		
22:00-23:00	68.1	68.0	80.7
23:00-00:00	67.9		
00:00-01:00	68.1		
01:00-02:00	67.8		
02:00-03:00	68.1		
03:00-04:00	67.9		
04:00-05:00	68.0		
05:00-06:00	68.1		
06:00-07:00	69.2	70.8	102.3
07:00-08:00	70.2		
08:00-09:00	70.7		
09:00-10:00	72.0		
10:00-11:00	70.3		
11:00-12:00	69.9		
12:00-13:00	72.1		
13:00-14:00	71.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R38)	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations,

Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



Scientist  
20/09/22



Technical Supervisor  
20/09/22



RY0071/09/65

R-Pro-1010-4/2021

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	14-15		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
14:00-15:00	73.7	72.1	104.2
15:00-16:00	76.3		
16:00-17:00	74.8		
17:00-18:00	69.4		
18:00-19:00	67.9		
19:00-20:00	68.0		
20:00-21:00	67.7		
21:00-22:00	67.7		
22:00-23:00	67.9	68.2	89.3
23:00-00:00	68.1		
00:00-01:00	67.9		
01:00-02:00	67.8		
02:00-03:00	68.4		
03:00-04:00	68.4		
04:00-05:00	68.3		
05:00-06:00	68.3		
06:00-07:00	68.2	71.7	102.8
07:00-08:00	69.7		
08:00-09:00	73.1		
09:00-10:00	74.6		
10:00-11:00	72.2		
11:00-12:00	68.3		
12:00-13:00	71.0		
13:00-14:00	72.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R38)	ACO	6236	00192050
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

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