13455058129

277000

68

0539-8608006

276001

31 A 3

“ 23000Nm³/h ”

“ ” 1971

2012 9

110 145

2013

LNG

2014 12

20 /

2020 12

3

110 145 “ ”

15 LNG “ LNG ”

20 “ ”

1-1

“ 23000Nm³/h ” 152000

20

255

TSA + PSA “

” 20

720Nm³/h 25t/h

18000Nm³/h

“ ” [2020]79

166

20

LNG 15 LNG 8000Nm³/h

8000Nm³/h

5382Nm³/h

18000Nm³/h

2022 3

23000Nm³/h 2022 7 8

ZZZL 2022 41 9

14 [2022]96

23000Nm³/h

23000Nm³/h

18000Nm3/h 8000Nm³/h

PSA PSA

23000Nm³/h 2022 9 2022 12 2023 5

8 18

8 20

8 25

8 26

2023 10 3-5

10 15

10 20

23000Nm³/h 1-1

		23000Nm³/h				
		23000Nm3/h				
		1 18000Nm3/h 1 8000Nm³/h				
		2022 1 13				
		2201-370403-07-02-704768				
		[2022]96 2022 9 14				
		2023 8 18 91370400743359815 1003P				
		2022 10		2023.5		2023.8.20
		2680		135		5.03%
		21177m²				
		333 8000h				

2015 1 1

2016.9.1 2018 12 29

2018 1 1

2018.10.26

2022 6 5

2020.4.29

2017 10 1

2021

[2017]4

< >

[2020]688

HJ 853-2017

GB3095-2012

GB3096-2008

GB/14848-2017

GB3838-2002

6 DB37/2801.6-2018

GB 37822-2019

GB31571-2015

GB12348-2008

GB18599-2020

HJ 1276-2022

GB 18597-2023

1

23000Nm3/h 2022 3 ~9

2 ZZZL 2022 41

23000Nm3/h -- 2022 7 8

3 [2022]96

23000Nm3/h 2022 9 14

4

1 23000Nm^3/h

117.448° 34.860°

LNG JFE

2.7km

3-1 3-2

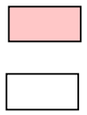
20 /

20 /

PSA-2

20 / /

3-3



1 18000Nm^3/h 1 8000Nm^3/h

3-1

	18000Nm³/h			
	8000Nm³/h			
		3000m³ 2	3000m³ 2	
		5m³	10m³	
		678m 150mm		
		250mm	250mm	
			90t/h	
		1		
		761m²		
		“ ” 30m	“ ” 30m	

23000Nm^3/h

23000

E321004	¢1200*8260*12 F=639M2	S32168 16Mn	1	
E321001	¢2000*8335 F=406m²	S32168+ Q345R	1	F=428.5m²
T321001	* 3+12/20/16) V=10M3	Q345R	1	¢2000/1800H=15640
E321002	¢1000*8286 F=275.16m²	S32168+ Q345R	1	F=241m²
V321001	¢2000*3420 V=10m³	Q235B 20#	1	V=5m³
V322104	DN1600 V=11m³ H=7175mm	S30408	1	F=284m²
T322101A~J	DN2000 H=8235 V=16m³	Q345R	10	V=16m³
V321003	¢1000*6354 V=3.2m³	Q345R	1	V=5.0m³
V321002	¢2600*6980 V=30m³	Q345R	1	V=30m³
V322301	¢800*4000*10 V=1.6m³	Q345R	1	V=1.6m³
V322304A/B	¢1800*8350 V=18m³	Q345R	2	/
V322102	¢2800*14710 V=80m³	Q345R	1	V=80m³
V322103	¢2800*14710 V=80m³	Q345R	1	V=80m³
V322101	¢1200*6214 V=9.0m³	Q345R	1	/
V322302	¢2400*12225 V=48m³	Q345R	1	V=48m³
V322303	¢2400*12225 V=48m³	Q345R	1	V=48m³
C323301AB	DW-15.5/10-16		2	
C323301A~C	DW-18.5/0.15-18	d CT4	3	
P322101A~F	01 6ëÐ 0#â خ			

		/	/	1	/
		/	/	1	/
		Q 20000Nm3/h	/	1	/
		TF702-6.6D	/	1	/
		=6353m³/h	/	1	/
P905201ABC		RY200-150-250	/	3	/
C323003AB		ARE-195MP	/	2	/
C323002AB		KGC45-20VDW2	/	2	/
P93001AB		F0608U-417	/	2	/
M93001		AL2503/DN100	/	1	/
P93501AB		F0405R-518	/	2	/
P93502		ZXB50-160	/	1	/
X93501		HTY-3.6A	/	1	/
	P93503A/BVOCs	S40x50-32	/		/
	P93504A/BVOCs	S40x50-32	/		/
	P93505A/BVOCs	S65x50-20	/		/
		φ426×18000mm			/
		φ426×18000mm			/
V93501AB		V=3000m³ φ17000mmx15000mm	/	2	V=3000m³
/		Φ2800 V=59.83m³		8	8
/		Φ3000 V=75m³		2	2
/		Φ3800 V=200m³		1	1

3-3

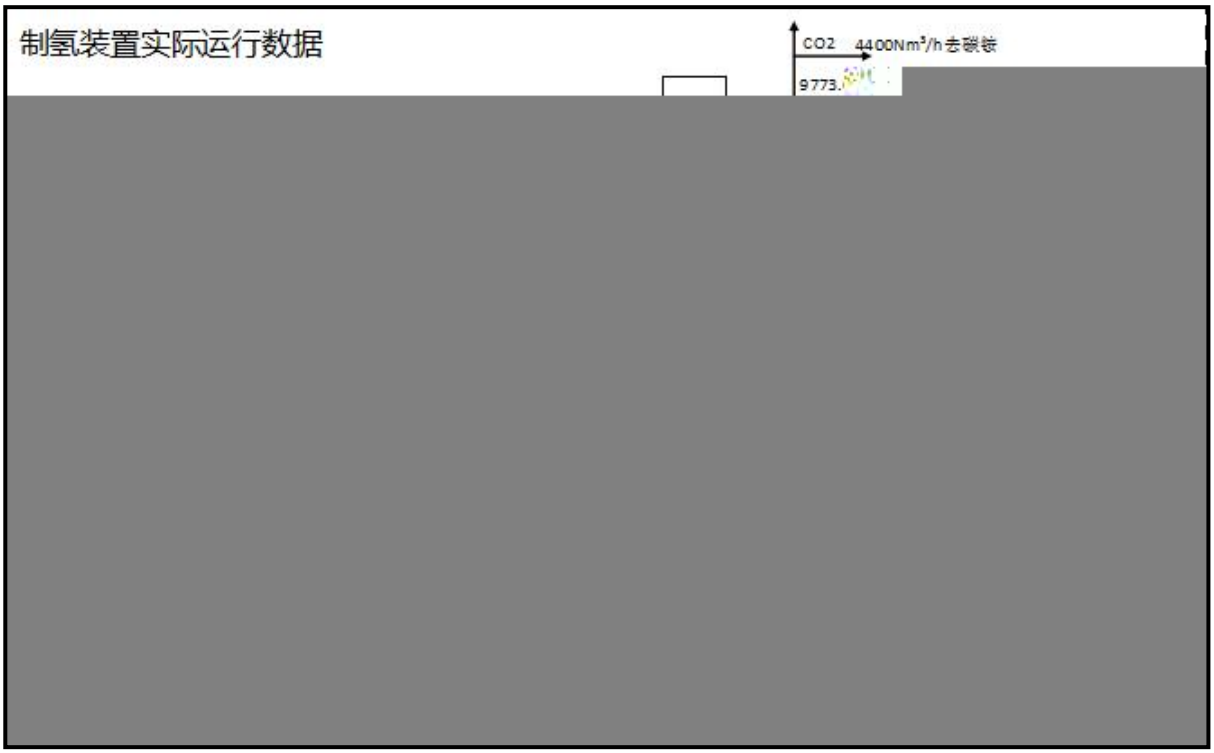
		m³			m×m×m	
		3000		2	35×75×1.9	

18000Nm³/h 8000Nm³/h

9 1 -10 15 45

3-4

			/	15098616Nm³
			/	10555488Nm³
			4827.6t	/
			8024.4t	/
			/	4568616Nm³
			/	1288332Nm³
			5856948m³	/



3-5

18000Nm³/h		18000 Nm³/h	13980.2Nm³/h	18000Nm³/h	
		7021Nm³/h	9773.6Nm³/h	12583.9Nm³/h	
		5.05t/h	4.47t/h	5.75t/h	
		8.989 t/h	7.43t/h	9.56t/h	

8000Nm³/h		5382Nm³/h	4230.2m³/h	6240.27Nm³/h	
		2618Nm³/h	1192.9Nm³/h	1759.73Nm³/h	
		8000Nm³/h	5423.1Nm³/h	8000Nm³/h	

18000Nm³/h

77.7%

18000Nm³/h 1.06

1.14

1.79

8000Nm³/h

67.8%

8000Nm³/h 1.16

0.67 78%

67.35%

18210.4Nm³/h 20 /

18000Nm³/h 18000Nm³/h

8000Nm³/h

18000Nm³/h 8000Nm³/h

3-6

	/			t/h				
				8.989t/h	9.56t/h			
			/	5.05t/h	5.75t/h	/		
			/	67.35%	78%	/		LNG
				54.6t/3a				

23000Nm³/h

		/	102.4t/15a				
		/	399.54t/15a				
		/	67.2t/15a				
			3089Nm³/h	3089Nm³/h	/		

GB338-2011

/Hazen - ≤	5		10
ρ20 / g/cm3	0.791~0.792	0.791~0.793	
0 101.3kPa 64.0~65.5	0.8	1.0	1.5
64.6±0.1 / ≤			
/min≥	50	30	20

1 5a

1

2

9655.2 4.47t/h 17985.6

3

2 / 5.4m^3

40m^3/a

4

24.7m^3 183m^3

5

1944m^3

14400m^3

9 1 -10 15

1

2

m^3

m^3

3

23000Nm^3/h

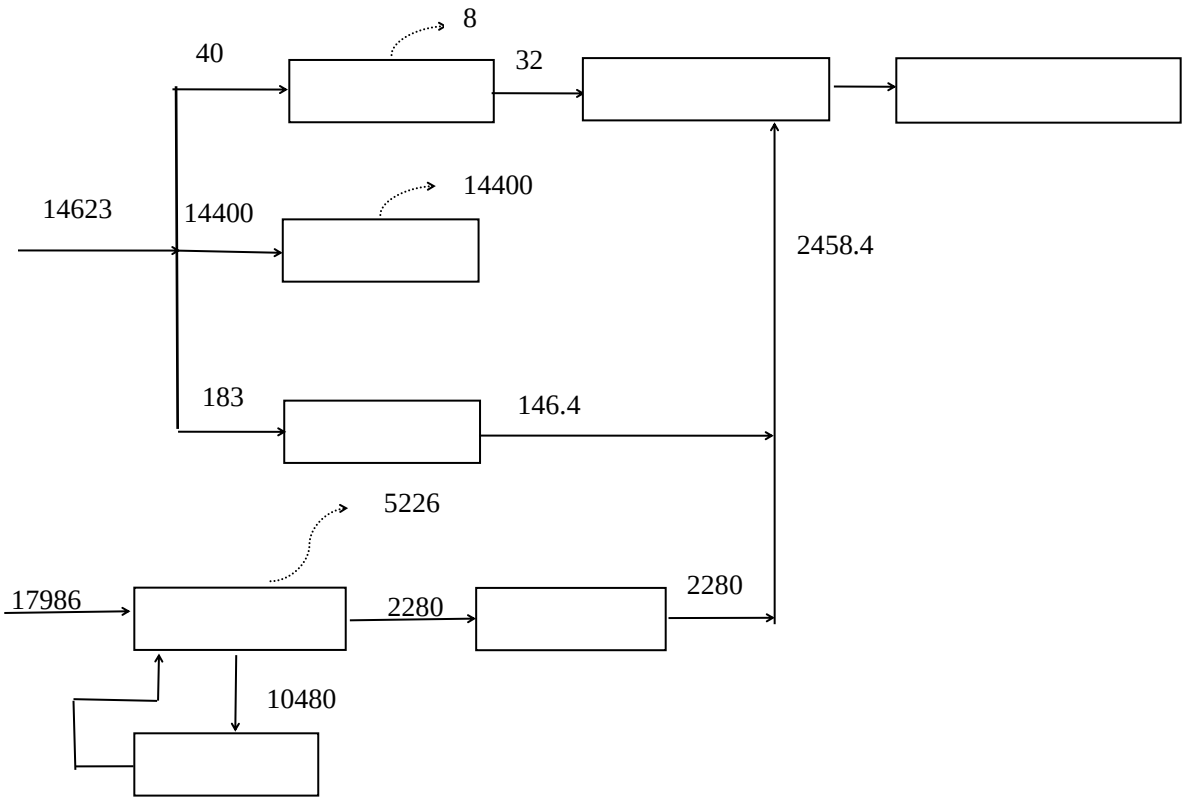
0.9m^3/d 45d

4.32m^3 32m^3

4

19.73m^3

146.4m^3



$CH_3OH \longrightarrow CO+2H_2$ -90.7KJ/mol

$CO+H_2O \longrightarrow CO_2+H_2$ +41.2KJ/mol

$CH_3OH+H_2O \longrightarrow CO_2+3H_2$ -49.5KJ/mol

M93001 P93001AB

V93501AB 9500kg/h

~2.05MPaG P93501A B

ML93507

P321001AB

E321004 R321001

E321001

R321001

R321001 E321004

E321003 T321001

V321001

P321002A B T321001

23000Nm^3/h

V321002 PSA1

V321002

1	E321001	TIA321106	~186-196
2	E321002	TIA321102	~280/ 11

(PSA1) 10

(A) (EiD) (D)

(V) (EiR) (FR) PSAI

~4400 Nm3/h

C322101AB 0.05 MPa G

V322104

(PSA2)

2 PSA2 (322200#)

(PSA2) 8

(A)

(EiD) (PP) (D) (P) (EIR) (FR)

PSA2

C322201A~C 1.80MPa

PSA3 (322300#)

~1.55MPa

(PSA3) (PSA3) 8

(A) (EiD) (PP) (D) (P) (EiR) PSA-H2

DCS

1.0MPaG 40

1.6MPaG 40 PSA

C323001A/B

0.002MPaG 40

0.2MPaG 40

23000Nm^3/h

C323002A/B

0.002MPaG 40 20 30kPaG

C323003A/B

70

P905202 C905201 E905201 C905202

F905202 S905201

“

G1 DA003 + ”

G2 DA006 CO H_2 CO_2

/ H_2 CO CO_2

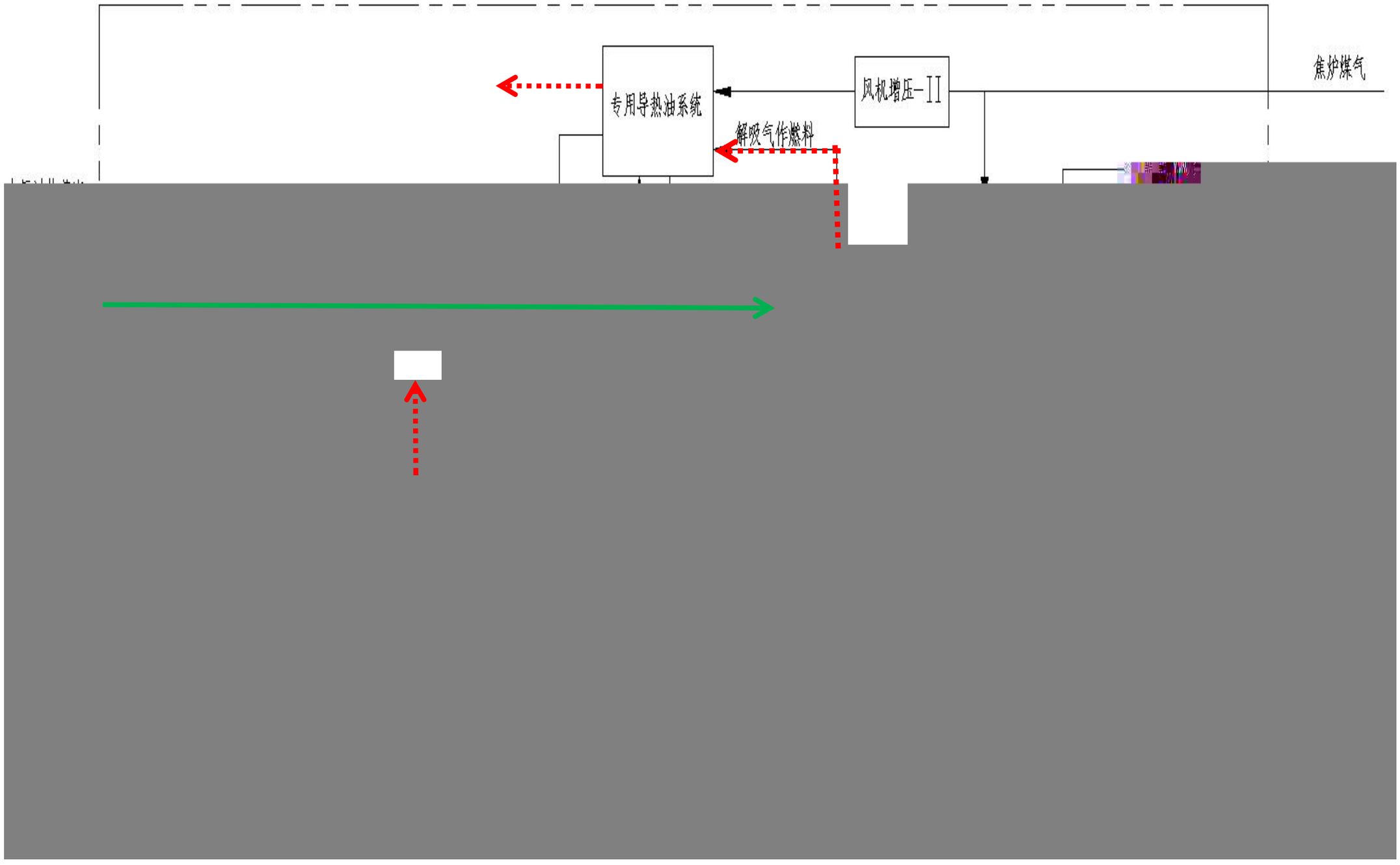
/ H_2 N_2

G3 DA005 SO_2 NO_X

			/	COD NH_3-N	
		S1	/	CuO	
		S2	/		
		S3	/		
		S4	/		
		S5	/		
		S6	/		
				--	

3-6

23000Nm³/h



1 18000Nm³/h 1 8000Nm³/h

	18000Nm³/h 8.989t/h 5.05t/h	18000Nm³/h 45d 5.75t/h 9.56t/h	1.06 1.14
	8000Nm³/h 67.35%	8000Nm³/h 45d 78%	1.16
	18000Nm³/h 7021Nm³/h	18000Nm³/h 45d 12583.9m³/h	
	8000Nm³/h 67.35% 5382Nm³/h 2618Nm³/h	8000Nm³/h 45d 78% 6240.27Nm³/h 1192.9Nm³/h	1.16

1		20	20 /	
2	30%	1 18000Nm³/h 1 8000Nm³/h		
3		1 18000Nm³/h 1 8000Nm³/h 3000m³ 2		
4	10%	2 23000Nm³/h 6000m³		
5				
6		1 + 1		
6.1		VOC_S SO_2 NO_X H_2S		
6.2		VOC_S1.32t/a 1.32t/a $SO_2$4.95t/a NO_X12.6t/a		
6.3				
6.4	10%			

		VOCs SO₂ NOX H₂S		
7	10%			
8	6 10%	“ + ”		
9				
10	10%	DA002 DA003 DA005 DA006		
11		6.0m 1.0 10⁻⁷cm/s	100mm 600g/m² 2mm 600g/m² 100mm 70mm C20 150mm C30 P8 6.0m 1.0 10⁻⁷cm/s	
12		PAS1 PAS2 PAS3		

13		2016m^3		

<

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[2020]688

DA003

“ + ”

15 P1

DA006

18 P3

DA005

+

SO_2 NO_X

30 P2

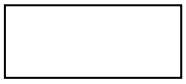
DA002

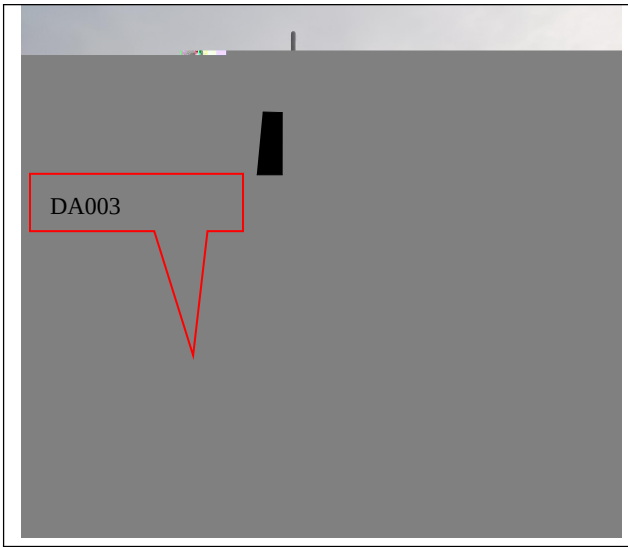
15 P4

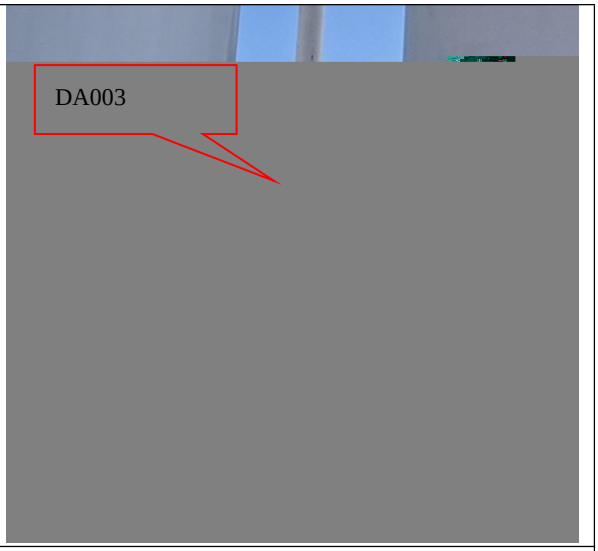
LDAR

	P1	DA003	G1		+ +	H=15m D=0.15m
	P2	DA005	G3	SO_2 NO_X		H=30m D=0.9m

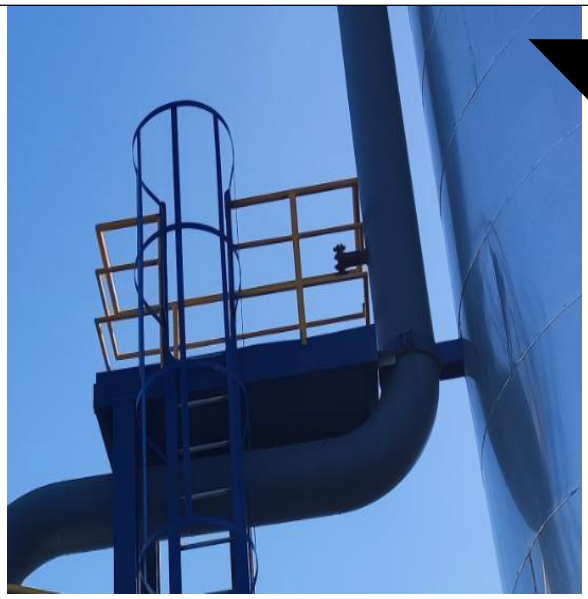
P3	DA006	G2	CO H_2 CO_2		H=18m D=0.4m
P4	DA002		VOC_S H_2S NH_3		





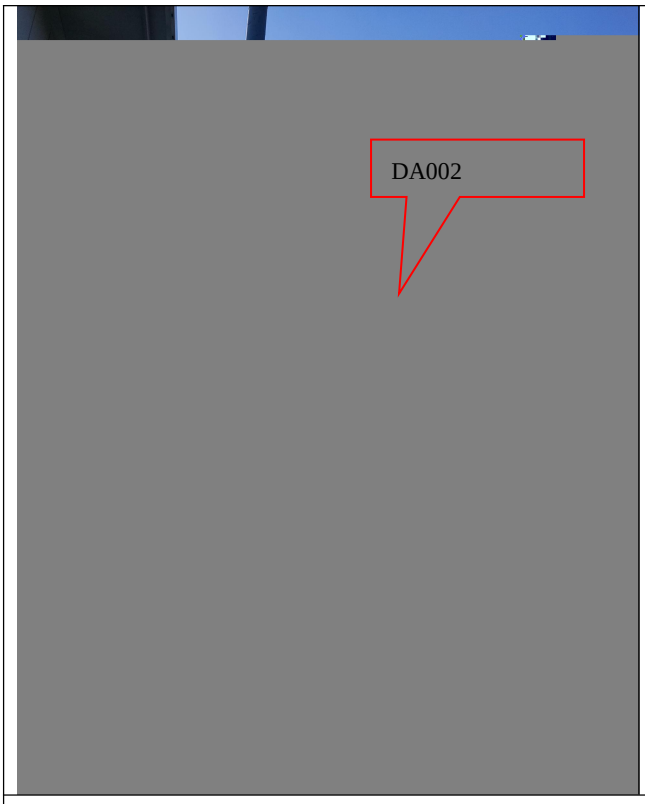


\+ P1



P3

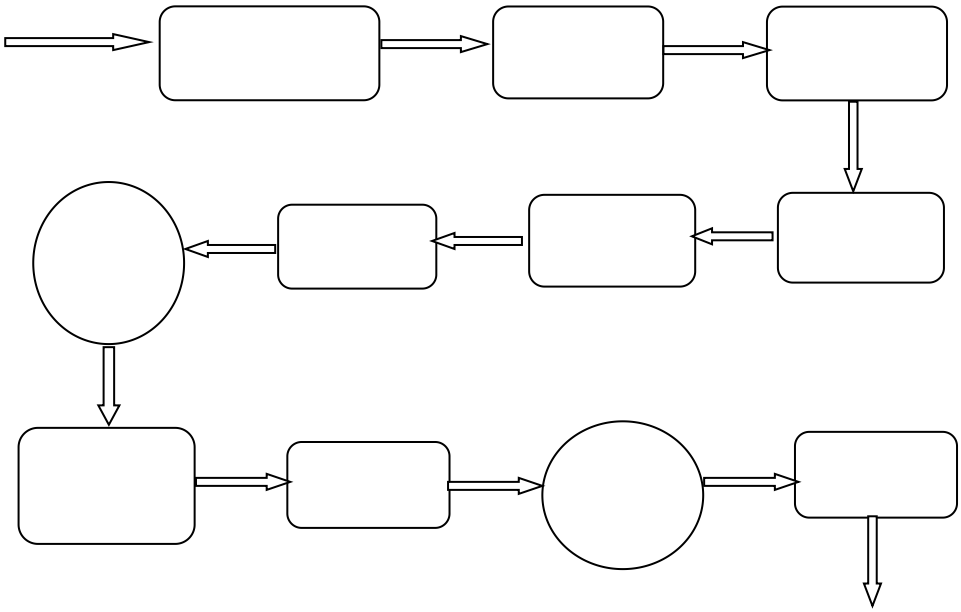
P2



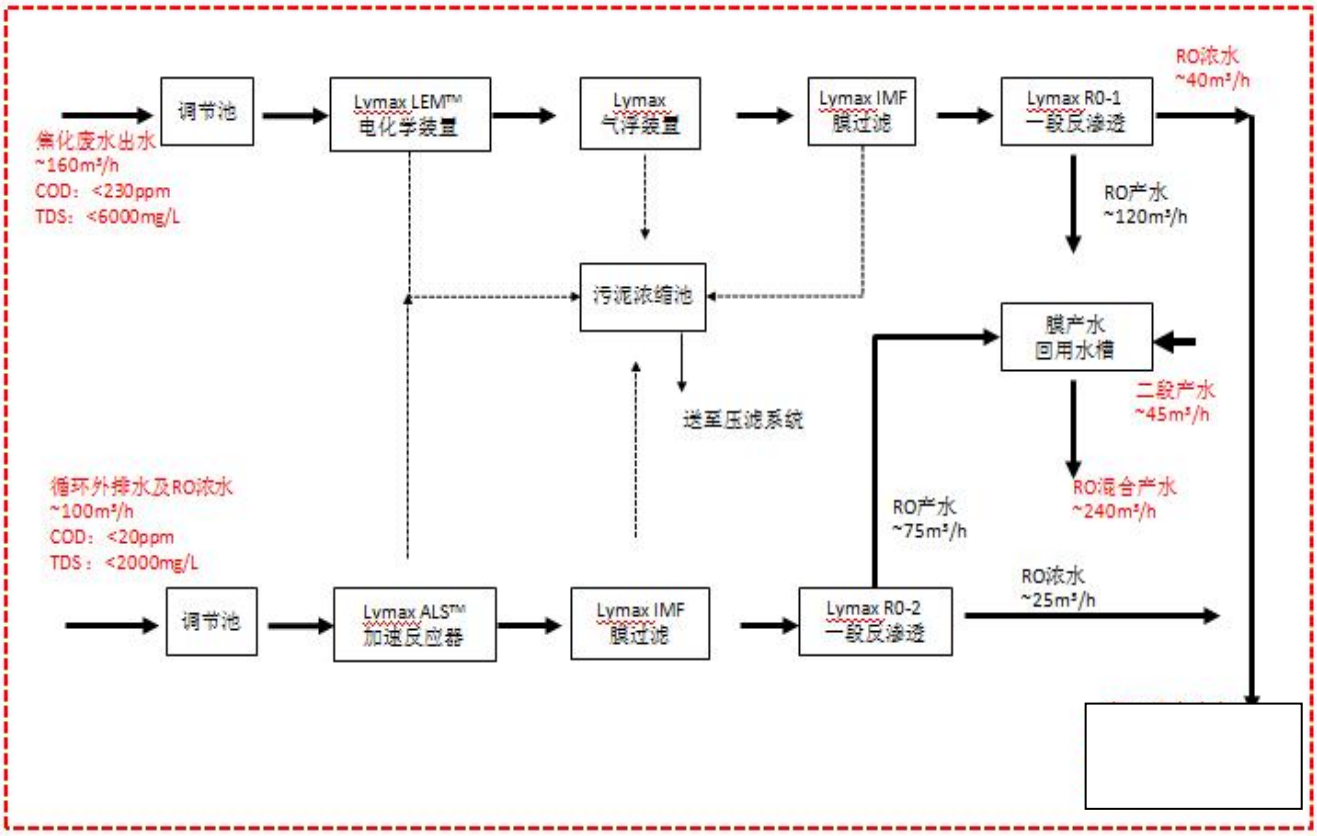
P4

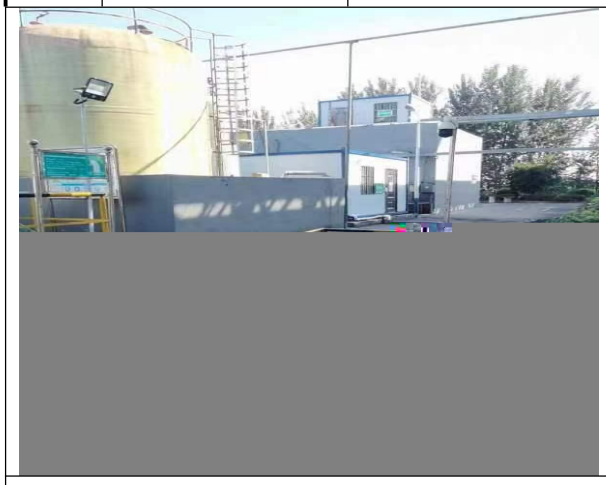
“

”



LymaxLEM™


焦化废水出水
~160m³/h
COD：<230ppm
TDS：<6000mg/L
调节池
Lymax LEM™
电化学装置
Lymax
气浮装置
Lymax IMF
膜过滤
Lymax RO-1
一段反渗透
RO浓水
~40m³/h
RO产水
~120m³/h
污泥浓缩池
膜产水
回用水槽
二段产水
~45m³/h
送至压滤系统
循环外排水及RO浓水
~100m³/h
COD：<20ppm
TDS：<2000mg/L
RO产水
~75m³/h
RO混合产水
~240m³/h
RO浓水
~25m³/h
调节池
Lymax ALS™
加速反应器
Lymax IMF
膜过滤
Lymax RO-2
一段反渗透

		COD		+
		COD		
		COD		
		COD		
				

S1

S2 S3 S4

S5 S6

				t/a			
	S1	CuO		18.19	54.6t/3a	HW49 900-041-49	
	S2			37.95	569.25t/15a	HW49 900-041-49	
	S3			90	270t/3a	HW08 900-214-08	
	S4			1.0	1t/a	HW49 900-039-49	
	S5			0.05	0.05	HW49 900-047-49	

	S6			2.0	2.0t/a	HW08 900-214-08	

(GB18597-2023)

( ) (GB15562.2-1995)

80 100dB(A)

70 80dB(A)

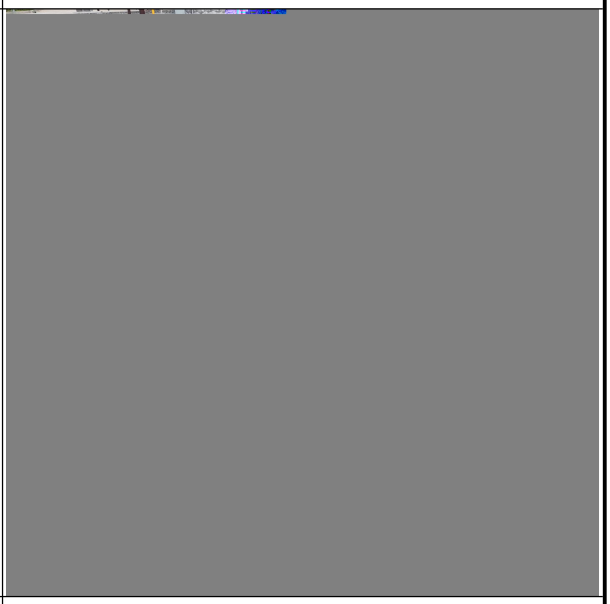
			[dB]			[dB]
	/	4				75
		1	85 100			75
		1	85			75
		3	80 100			75
	/	5	80 100			75
	/	5	80 100			75
		6	80 100			75

1

2

3

1 2016m³



1

6 1.0×10^{-7}cm/s

2

3

1

1

P10 150mm

200mm

2

P8 50mm

20m

1.5kg/m^2 1.0mm 20m

1.5 mm

3

600g/m^2 +2mm HDPE

1.0×10^{-12}cm/s + 600g/m^2

1.5%

P6 1.5%

2

P8 100mm

3

23000Nm³/h

23000Nm³/h

P1 P2 P3 P4 15m

135 5.03%

4-5

1			15
2			5
3			10
6			
			50
8			5
10			15
11			15

12			20
			135

“ ”

	G1		+ + +15m P1	
	G3	SO_2 NO_X	+30 P2	
	G2	CO	18 P3	
		VOC_S H_2S NH_3	+15 P4	
		VOCs	LDAR	
	W1	COD	+	
		COD NH_3-N		
		COD NH_3-N		
	S1			
	S2			
	S3			
	S4			
	S5			
	S6			
	/			
	/	/		
	/	/		

[2022]96

23000Nm³/h

23000Nm³/h

( )

( )

18m

30m 15m

15m

:

6 : (DB37/2801.3-2018) 2

VOCs 6

: (DB37/2801.6-2018) II

(DB37/2374-2018) 2“

” (GB14554-93) 2

(DB37/2376-2019) 2“ ” ,VOCs

6 : (DB37/2801.6-2018) 1

(GB16297-1996) 2

VOCs 6 :

(DB37/2801.6-2018) 3

(GB14554-93) 1

(GB16297-1996)

(GB37822-2019) LDAR

VOCs

6 : (DB37/2801.3-2018) 3

(GB16297-1996)

(GB14554-93) 1

“ ”

( ) “

”

( )

(GB12348-2008) 3

( ) “ ”

( )

( )

“ ”

( ) VOCs

1.32t/a 4.95t/a 12.6t/a 1.32t/a

( )

“ ”

( )

5

“ ”

10

“

”

5-1

18	18	
15 6 (DB37/2801.6-2018) 2	+ 15 6 (DB37/2801.6-2018) 2	
DB37/2374-2018 2 “ ”	DB37/2374-2018 2 “ ”	
6 (DB37/2801.6-2018) 3 GB14554-93 1 GB16297-1996	LDAR( ) +	
“ ”	“ ”	
“ ”		

GB12348-2008 3	GB12348-2008 3	
“ ”		
5	5	
“ ”		

		mg/m³	kg/h	
P1		50	--	6 DB37/2801.6-2018 2
	VOC_S	60	3.0	6 DB37/2801.3-2018 1
P2	SO_2	50	--	DB37/2374-2018 2“ ”
	NO_X	100	--	
		10	--	
P3		50	--	6 DB37/2801.6-2018 2
P4			0.33	GB 14554-93
			4.9	GB 14554-93
		10	--	(DB37/2376—2019) 2
	VOC_S	60	3.0	6 DB37/2801.6-2018 1

	mg/m³	
	12	GB16297-1996
VOC_S	2.0	6 DB37/2801.6-2018 3
	0.06	GB14554-93
	1.5	
	2.0	GB16297-1996

pH	6.5 8.5	
COD mg/L	≤ 60	
NH_3-N mg/L	≤ 10	
NTU	≤ 5	
$CaCO_3$ mg/L	≤ 350	
mg/L	≤ 1	
mg/L	≤ 1000	

GB12348-2008 3

6-4

/		dB(A)
GB12348-2008 3	65	55

GB18599-2020

2021 82

GB18597-2023

4

7-1

							m)	
P1		VOCs		1	15	0.15	0.02	3 / 2
P2		SO_2 NO_X		1	30	0.9	0.64	3 / 2
P3		VOCs		1	18	0.4	0.13	3 / 2
P4		VOCs		1	15	0.05	0.25	3 / 2
		VOCs		1	15	0.05	0.25	3 / 2

7-2

	VOCs	1 3	4 / 2	

7-3

1		pH COD	3 / 3
2		pH COD SS	

A L_{eq}(A)

4 1

2

“ ( )

“ ”

”

9.2.2 /

1 /

2

1

23000Nm³/h

2016 3 65

25% “

”

8-1

	pH	pH	HJ 1147-2020	/
			HJ 828-2017	4 mg/L
			GB/T 11893-1989	0.01 mg/L
			HJ 636-2012	0.05 mg/L
			GB/T 11901-1989	4 mg/L
			HJ 535-2009	0.025 mg/L
		/	HJ 895-2017	0.2 mg/L
	[a]		HJ 478-2009	0.004 g/L
		4-	HJ 503-2009	0.01 mg/L
			HJ 533-2009	0.25 mg/m
			HJ 836-2017	1.0 mg/m
			GB/T 16157-1996	20 mg/m
			HJ 1132-2020	2 mg/m
			HJ 1131-2020	2 mg/m

			HJ 38-2017	0.06 mg/m
			HJ 1262-2022	/
		B	2003	0.001 mg/m
			HJ/T 398-2007	/
			HJ/T 33-1999	2 mg/m
	VOC_S		HJ 38-2017	0.07 mg/m
			GB 12348-2008	/
			GB 3096-2008	/
			HJ 533-2009	0.01 mg/m
			HJ 1263-2022	/
		-	HJ 604-2017	0.06 mg/m
			HJ 1262-2022	/
		B	2003	0.001 mg/m
			HJ/T 33-1999	2 mg/m
	VOC_S	-	HJ 604-2017	0.07 mg/m

8-2

			/	/
0868	50ml			2025-02-14
XZFZ09	SN-LGM			2024-02-09
XZFZ17	101-1EBS			2023-10-24

			/	/
XZFZ18	101-1EBS			2023-10-24
XZFZ20	LHS-80HC-			2023-10-24
XZJC01	A90			2024-01-04
XZJC02	GC-2010plus			2024-01-04
XZJC07	TU-1901			2023-10-24
XZJC08	T6			2023-10-24
XZJC09	T6			2023-10-24
XZJC10	QUINTIX125D-1CN			2023-10-24
XZJC11	ME104E/02			2023-10-24
XZJC44	UltiMate3000			2024-02-13
XZJC49	KS-HW250			2023-10-24
XZJC51	AUW220D			2023-10-24
XZJC67	A60			2025-02-12
XZJC68	T6			2024-06-11
XZYQ150	YQ3000-D			2024-02-09
XZYQ152	YQ3000-D			2024-02-09
XZYQ183	MH1205	/		2024-06-04
XZYQ184	MH1205	/		2024-06-04
XZYQ185	MH1205	/		2024-06-04
XZYQ186	MH1205	/		2024-06-04
XZYQ187	HH.SW-1			2024-06-15
XZYQ189	PHB-4	pH		2024-06-04
XZYQ195	5500			2024-06-04
XZYQ196	AWA6021A			2024-06-04
XZYQ197	AWA6228+			2024-06-04
XZYQ216	MH3001 21			2024-08-24
XZYQ31	2050	/ TSP		2024-04-25
XZYQ44	3023			2024-02-09

			/	/
XZYQ78	3036	VOCs	/	/
XZYQ79	3036	VOCs	/	/
XZYQ97	2083		/	/
XZYQ98	2083		/	/

8-3

		/	
	4		
	1		
	1		
	5		
	5		
	5		
	5		
	4		
	5		
	1		
	6		
	5		
	5		

1 (HJ/T91.1-2019)

HJ 494-2009 HJ

493-2009

2

10%

20%

3

8-4

2023-10-06		2023040096-L0108QK	4L mg/L	
2023-10-06		2023040096-L0204QK	4L mg/L	
2023-10-05		2023040096-L0108QK	0.01L mg/L	
2023-10-06		2023040096-L0204QK	0.01L mg/L	
2023-10-06		2023040096-L0108QK	0.05L mg/L	
2023-10-06		2023040096-L0204QK	0.05L mg/L	
2023-10-07		2023040096-L0108QK	4L mg/L	
2023-10-07		2023040096-L0204QK	4L mg/L	
2023-10-08		2023040096-L0108QK	0.025L mg/L	
2023-10-08		2023040096-L0204QK	0.025L mg/L	
2023-10-05		2023040096-L0108QK	0.2L mg/L	
2023-10-05		2023040096-L0204QK	0.2L mg/L	
2023-10-06	[a]	2023040096-L0108QK	0.004L g/L	
2023-10-06	[a]	2023040096-L0204QK	0.004L g/L	
2023-10-05		2023040096-L0108QK	0.01L mg/L	
2023-10-06		2023040096-L0204QK	0.01L mg/L	
	“ +L”			

8-7

	2023040096-L0105	19 mg/L	2.7%	
	2023040096-L0105_	18 mg/L		
	2023040096-L0108	19 mg/L	2.6%	
	2023040096-L0108P	20 mg/L		
	2023040096-L0201	21 mg/L	0.0%	
	2023040096-L0201_	21 mg/L		
	2023040096-L0204	21 mg/L	2.4%	
	2023040096-L0204P	20 mg/L		
	2023040096-L0105	0.58 mg/L	0.9%	
	2023040096-L0105_	0.57 mg/L		
	2023040096-L0108	0.52 mg/L	1.0%	
	2023040096-L0108P	0.53 mg/L		
	2023040096-L0201	0.55 mg/L	0.9%	
	2023040096-L0201_	0.54 mg/L		
	2023040096-L0204	0.57 mg/L	0.9%	
	2023040096-L0204P	0.56 mg/L		
	2023040096-L0106	8.83 mg/L	1.2%	
	2023040096-L0106_	9.05 mg/L		
	2023040096-L0108	8.97 mg/L	1.2%	
	2023040096-L0108P	9.19 mg/L		
	2023040096-L0204	8.22 mg/L	1.3%	
	2023040096-L0204P	8.44 mg/L		
	2023040096-L0106	0.145 mg/L	4.0%	
	2023040096-L0106_	0.157 mg/L		
	2023040096-L0108	0.165 mg/L	2.4%	
	2023040096-L0108P	0.173 mg/L		
	2023040096-L0204	0.198 mg/L	2.6%	
	2023040096-L0204P	0.188 mg/L		
	2023040096-L0105	0.2L mg/L	/	

	2023040096-L0105_	0.2L mg/L		
	2023040096-L0108	0.2L mg/L	/	
	2023040096-L0108P	0.2L mg/L		
	2023040096-L0201	0.2L mg/L	/	
	2023040096-L0201P	0.2L mg/L		
	2023040096-L0201	0.2L mg/L	/	
	2023040096-L0201_	0.2L mg/L		
	2023040096-L0202	0.2L mg/L	/	
	2023040096-L0202P	0.2L mg/L		
	2023040096-L0203	0.2L mg/L	/	
	2023040096-L0203P	0.2L mg/L		
	2023040096-L0204	0.2L mg/L	/	
	2023040096-L0204P	0.2L mg/L		
[a]	2023040096-L0105	0.004L g/L	/	
	2023040096-L0105_	0.004L g/L		
	2023040096-L0108	0.004L g/L	/	
	2023040096-L0108P	0.004L g/L		
	2023040096-L0201	0.004L g/L	/	
	2023040096-L0201_	0.004L g/L		
	2023040096-L0204	0.004L g/L	/	
	2023040096-L0204P	0.004L g/L		
	2023040096-L0106	0.01L mg/L	/	
	2023040096-L0106_	0.01L mg/L		
	2023040096-L0108	0.01L mg/L	/	
	2023040096-L0108P	0.01L mg/L		
	2023040096-L0201	0.01L mg/L	/	
	2023040096-L0201_	0.01L mg/L		
	2023040096-L0204	0.01L mg/L	/	
	2023040096-L0204P	0.01L mg/L		
	“ +L”			

1

2 75%

3

4

/

8-8~8-9

2023-10-06		2023040096-G(NH)0106-02QK	0.25L mg/m	
2023-10-05		2023040096-G0601-03YK	0.06L mg/m	
2023-10-06		2023040096-G(H S)0106-03QK	0.001L mg/m	
2023-10-04		2023040096-G0601-03YK	2L mg/m	
2023-10-05	VOC_S	2023040096-G0601-03YK	0.07L mg/m	
	“ +L”			

2023-10-05		2023040096-G(NH)1104QK	0.01L mg/m	
2023-10-06		2023040096-G(NH)1108QK	0.01L mg/m	
2023-10-05		2023040096-G1108-04YK	0.06L mg/m	

2023-10-06		2023040096-G1504-04YK	0.06L mg/m	
2023-10-04		2023040096-G(H S)1104QK	0.001L mg/m	
2023-10-05		2023040096-G(H S)1108QK	0.001L mg/m	
2023-10-05		2023040096-G1108-04YK	2L mg/m	
2023-10-06		2023040096-G1504-04YK	2L mg/m	
2023-10-05	VOCs	2023040096-G1108-04YK	0.07L mg/m	
2023-10-06	VOCs	2023040096-G1504-04YK	0.07L mg/m	
	“ +L”			

8-10~8-11

2023040096-G0601-01	0.00057 %	0.9%
2023040096-G0601-01_	0.00058 %	
2023040096-G0604-01	0.00054	

	2023040096-G(NMHC)0201-01_	11.0 mg/m		
	2023040096-G(NMHC)0204-01	10.7 mg/m	0.5%	
	2023040096-G(NMHC)0204-01_	10.6 mg/m		
	2023040096-G0401-01	13.6 mg/m	0.0%	
	2023040096-G0401-01_	13.6 mg/m		
	2023040096-G0404-01	13.5 mg/m	0.7%	
	2023040096-G0404-01_	13.3 mg/m		
	2023040096-G0601-01	3.56 mg/m	3.1%	
	2023040096-G0601-01_	3.79 mg/m		
	2023040096-G0604-01	4.25 mg/m	2.4%	
	2023040096-G0604-01_	4.05 mg/m		
	“ +L”			

	2023040096-G0805-01	0.00023 %	0.0%	
	2023040096-G0805-01_	0.00023 %		
	2023040096-G0807-03	0.00023 %	2.2%	
	2023040096-G0807-03_	0.00022 %		
	2023040096-G0906-01	0.00032 %	1.5%	
	2023040096-G0906-01_	0.00033 %		
	2023040096-G0908-03	0.00032 %	0.0%	
	2023040096-G0908-03_	0.00032 %		
	2023040096-G1007-01	0.00033 %	0.0%	
	2023040096-G1007-01_	0.00033 %		
	2023040096-G1105-01	0.00039 %	0.0%	
	2023040096-G1105-01_	0.00039 %		
	2023040096-G1107-03	0.00037 %	0.0%	
	2023040096-G1107-03_	0.00037 %		
	2023040096-G1202-01	0.00021 %	0.0%	
	2023040096-G1202-01_	0.00021 %		

	2023040096-G1204-03	0.00022 %	0.0%	
	2023040096-G1204-03_	0.00022 %		
	2023040096-G1303-01	0.00041 %	0.0%	
	2023040096-G1303-01_	0.00041 %		
	2023040096-G1401-03	0.00042 %	1.2%	
	2023040096-G1401-03_	0.00041 %		
	2023040096-G1404-01	0.00033 %	0.0%	
	2023040096-G1404-01_	0.00033 %		
	2023040096-G1502-03	0.00033 %	0.0%	
	2023040096-G1502-03_	0.00033 %		
	2023040096-G0805-01	2L mg/m	/	
	2023040096-G0805-01_	2L mg/m		
	2023040096-G0807-03	2L mg/m	/	
	2023040096-G0807-03_	2L mg/m		
	2023040096-G0906-01	2L mg/m	/	
	2023040096-G0906-01_	2L mg/m		
	2023040096-G0908-03	2L mg/m	/	
	2023040096-G0908-03_	2L mg/m		
	2023040096-G1007-01	2L mg/m	/	
	2023040096-G1007-01_	2L mg/m		
	2023040096-G1105-01	2L mg/m	/	
	2023040096-G1105-01_	2L mg/m		
	2023040096-G1107-03	2L mg/m	/	
	2023040096-G1107-03_	2L mg/m		
	2023040096-G1202-01	2L mg/m	/	
	2023040096-G1202-01_	2L mg/m		
	2023040096-G1204-03	2L mg/m	/	
	2023040096-G1204-03_	2L mg/m		
	2023040096-G1303-01	2L mg/m	/	
	2023040096-G1303-01_	2L mg/m		

	2023040096-G1401-03	2L mg/m	/	
	2023040096-G1401-03_	2L mg/m		
	2023040096-G1404-01	2L mg/m	/	
	2023040096-G1404-01_	2L mg/m		
	2023040096-G1502-03	2L mg/m	/	
	2023040096-G1502-03_	2L mg/m		
VOCs	2023040096-G0805-01	0.66 mg/m	3.1%	
	2023040096-G0805-01_	0.62 mg/m		
	2023040096-G0807-03	0.59 mg/m	0.0%	
	2023040096-G0807-03_	0.59 mg/m		
	2023040096-G0906-01	1.62 mg/m	0.6%	
	2023040096-G0906-01_	1.64 mg/m		
VOCs	2023040096-G0908-03	1.59 mg/m	4.2%	
	2023040096-G0908-03_	1.73 mg/m		
	2023040096-G1007-01	1.75 mg/m	0.8%	
	2023040096-G1007-01_	1.78 mg/m		
	2023040096-G1105-01	1.72 mg/m	0.3%	
	2023040096-G1105-01_	1.73 mg/m		
	2023040096-G1107-03	1.42 mg/m	0.7%	
	2023040096-G1107-03_	1.44 mg/m		
	2023040096-G1202-01	0.62 mg/m	2.4%	
	2023040096-G1202-01_	0.65 mg/m		
	2023040096-G1204-03	0.50 mg/m	0.0%	
	2023040096-G1204-03_	0.50 mg/m		
	2023040096-G1303-01	1.28 mg/m	0.0%	
	2023040096-G1303-01_	1.28 mg/m		
	2023040096-G1401-03	1.14 mg/m	0.9%	
	2023040096-G1401-03_	1.16 mg/m		
	2023040096-G1404-01	1.88 mg/m	0.8%	
	2023040096-G1404-01_	1.85 mg/m		

	2023040096-G1502-03	1.69 mg/m	0.9%	
	2023040096-G1502-03_	1.66 mg/m		
	“ +L”			

GB 12348-2008

1

2 0.5 dB 0.5 dB

3

4

5 2.4~2.8m/s 5m/s

8-12

	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	
2023-10-03( )	94.0	93.8	93.9	0.1	
2023-10-03( )	94.0	93.8	94.0	0.2	
2023-10-04( )	94.0	93.8	93.6	0.2	
2023-10-04( )	94.0	93.8	93.6	0.2	
	0.5[dB(A)]				

8-13

	230707-002-003	25.5 mg/L	25.0 mg/L	1.1 mg/L	
	230613-003-002	0.206 mg/L	0.202 mg/L	0.014 mg/L	
	230613-003-002	0.207 mg/L	0.202 mg/L	0.014 mg/L	
	230427-003-001	4.19 mg/L	4.11 mg/L	0.25 mg/L	
	230707-011-005	0.957mg/L	0.956 mg/L	0.072 mg/L	
	230707-011-005	0.952mg/L	0.956 mg/L	0.072 mg/L	
	230908-001-010	0.833 g/ml	0.800 g/ml	0.058 g/ml	
	230908-001-010	0.829 g/ml	0.800 g/ml	0.058 g/ml	
	230908-001-010	0.829 g/ml	0.800 g/ml	0.058 g/ml	
	230908-001-010	0.806 g/ml	0.800 g/ml	0.058 g/ml	
	230712-007-003	0.413 mg/L	0.420 mg/L	0.032 mg/L	
	230712-091-003	1.55 mg/L	1.49 mg/L	0.12 mg/L	
	230712-091-003	1.53 mg/L	1.49 mg/L	0.12 mg/L	

8-14

	2023040096-L0105	8.50 mg/L	10.0 mg/L	98.0%	
	2023040096-L0105J	18.3 mg/L			
	2023040096-L0106	0.2L mg/L	3.0 mg/L	90.0%	
	2023040096-L0106J	2.7 mg/L			
	2023040096-L0202	0.2L mg/L	3.0 mg/L	93.3%	
	2023040096-L0202J	2.8 mg/L			
	KB	0.004L g/L	1.00 g/L	90.7%	
	KBJ	0.907 g/L			
	KB	0.004L g/L	1.00 g/L	90.7%	

	KBJ	0.907 g/L			
	“ +L”				

8-15

2023-10-03		55.47 mg/m³	57 mg/m³	54 mg/m³	2 mg/m³	-1 mg/m³	
		110 mg/m	109 mg/m	109 mg/m	-1 mg/m	-1 mg/m	
		21 %	21 %	21 %	0 %	0 %	
2023-10-04		55.47 mg/m³	49 mg/m³	55 mg/m³	-6 mg/m³	0mg/m³	
		110 mg/m	110 mg/m	114 mg/m	0 mg/m	4 mg/m	
		21 %	21 %	21 %	0 %	0 %	

8-16

				(L/min)	(L/min)		(%)	(%)	
2023-10-03	MH1205	XZYQ183	B	1.0000	0.9999		-0.01	±5%	
	MH1205	XZYQ183	E	100.0	99.9		-0.1	±5%	
	MH1205	XZYQ183	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ183	A	1.0000	0.9999		-0.01	±5%	
	MH1205	XZYQ183	E	100.0	100.1		0.1	±5%	
	MH1205	XZYQ183	B	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ184	B	1.0000	1.0000		0.0	±5%	
	MH1205	XZYQ184	E	100.0	100.1		0.1	±5%	
	MH1205	XZYQ184	A	1.0000	1.000		0.0	±5%	
	MH1205	XZYQ185	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ185	B	1.0000	0.9999		-0.01	±5%	

				(L/min)	(L/min)		(%)	(%)	
	MH1205	XZYQ185	E	100.0	99.9		-0.1	±5%	
	MH1205	XZYQ185	A	1.0000	1.0000		0.0	±5%	
2023-10-03	MH1205	XZYQ185	E	100.0	100.1		0.1	±5%	
	MH1205	XZYQ185	B	1.0000	1.0002		0.02	±5%	
	MH1205	XZYQ186	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ186	E	100.0	99.9		-0.1	±5%	
	MH1205	XZYQ186	B	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ186	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ186	B	1.0000	1.0002		0.02	±5%	
	MH1205	XZYQ186	E	100.0	100.2		0.2	±5%	
2023-10-04	MH1205	XZYQ183	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ183	A	1.0000	1.0002		0.02	±5%	
	MH1205	XZYQ183	B	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ183	B	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ183	E	100.0	100.2		0.2	±5%	
	MH1205	XZYQ183	E	100.0	100.1		0.1	±5%	
	MH1205	XZYQ184	B	1.0000	1.0002		0.02	±5%	
	MH1205	XZYQ184	A	1.0000	1.0002		0.02	±5%	
	MH1205	XZYQ184	E	100.0	100.1		0.1	±5%	
	MH1205	XZYQ184	B	1.0000	1.0002		0.02	±5%	
	MH1205	XZYQ184	E	100.0	100.1		0.1	±5%	
	MH1205	XZYQ184	A	1.0000	1.0000		0.0	±5%	
	MH1205	XZYQ185	A	1.0000	1.0000		0.0	±5%	
	MH1205	XZYQ185	B	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ185	B	1.0000	1.0002		0.02	±5%	
	MH1205	XZYQ185	E	100.0	99.9		-0.1	±5%	
	MH1205	XZYQ185	E	100.0	100.1		0.1	±5%	

				(L/min)	(L/min)		(%)	(%)	
	MH1205	XZYQ185	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ185	B	1.0000	0.9998		-0.02	±5%	
2023-10-04	MH1205	XZYQ185	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ186	B	1.0000	1.0000		0.0	±5%	
	MH1205	XZYQ186	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ186	A	1.0000	1.0001		0.01	±5%	
	MH1205	XZYQ186	B	1.0002	1.0001		-0.01	±5%	
	MH1205	XZYQ186	E	100.0	100.1		0.1	±5%	
	MH1205	XZYQ186	E	100.0	100.1		0.1	±5%	
	MH3001	XZYQ216	A	0.9999	1.0002		0.03	±5%	
	MH3001	XZYQ216	B	0.5000	0.5000		0.0	±5%	
	MH3001	XZYQ216	B	0.5000	0.4999		-0.02	±5%	
	MH3001	XZYQ216	A	1.0000	1.0001		0.01	±5%	
	2050	XZYQ31	B	0.5000	0.5002		0.04	±5%	
	2050	XZYQ31	A	1.0000	1.0000		0.0	±5%	
	2050	XZYQ31	A	1.0000	1.0001		0.01	±5%	
	2050	XZYQ31	B	0.5000	0.4999		-0.02	±5%	
2023-10-05	MH3001	XZYQ216	A	1.0000	1.0002		0.02	±5%	
	MH3001	XZYQ216	B	0.5000	0.5001		0.02	±5%	
	MH3001	XZYQ216	A	1.0000	1.0001		0.01	±5%	
	MH3001	XZYQ216	B	0.5000	0.5000		0.0	±5%	
	2050	XZYQ31	A	1.0000	1.0001		0.01	±5%	
	2050	XZYQ31	A	1.0000	1.0001		0.01	±5%	
	2050	XZYQ31	B	0.5000	0.5001		0.02	±5%	
	2050	XZYQ31	B	0.5000	0.5002		0.04	±5%	

2023 10 3 ~5

18000 Nm³/h

77.7%~78.9% 8000 Nm³/h

66.2%~67.8%

		Nm³/d			%		
		10 3	10 4	10 5	10 3	10 4	10 5
18000 Nm³/h	432000Nm³/d 18000 Nm³/h	335524 Nm³/d	340785 Nm³/d	335889 Nm³/d	77.7	78.9	77.8
8000 Nm³/h	192000Nm³/d (8000Nm³/h)	130154 Nm³/d	127029 Nm³/d	129986 Nm³/d	67.8	66.2	67.2

P20~23 18000Nm³/h

20 / 18000Nm³/h 18000Nm³/h

8000Nm³/h

18000Nm³/h 8000Nm³/h

1

9-2

				m³/h	%	%	mg/m³	mg/m³	kg/h			m	(m)	(m²)
P2	2023-10-03		1	4366	3.5	7.3	3	4	0.013	104	3.04	30	0.9	0.64
			2	5028	3.5	7.3	4	5	0.020	104	3.52			
			3	4372	3.5	7.3	5	6	0.022	104	3.04			
			1	4366	3.5	7.3	58	75	0.25	104	3.04			
			2	5028	3.5	7.3	55	70	0.28	104	3.52			
			3	4372	3.5	7.3	50	64	0.22	104	3.04			
			1	4366	3.5	7.3	2.3	3.0	0.01	104	3.04			
			2	5028	3.5	7.3	2.4	3.1	0.012	104	3.52			
			3	4372	3.5	7.3	2.3	2.9	0.01	104	3.04			
			1	4043	3.5	7.4	4	5	0.016	95	2.74			
			2	4776	3.5	7.4	3	4	0.014	98	3.26			
			3	4766	3.5	7.5	4	5	0.019	96	3.25			

				m³/h	%	%	mg/m³	mg/m³	kg/h			m	(m)	(m²)
			1	4043	3.5	7.4	50	64	0.20	95	2.74			
			2	4776	3.5	7.4	47	60	0.22	98	3.26			
			3	4766	3.5	7.5	45	58	0.21	96	3.25			
			1	4043	3.5	7.4	2.5	3.2	0.01	95	2.74			
			2	4776	3.5	7.4	2.3	3.0	0.011	98	3.26			
			3	4766	3.5	7.5	2.5	3.2	0.012	96	3.25			
P1	2023-10-03		1	161	/	/	2L	/	1.7 10^{-4}	25	3.05	15	0.15	0.02
				172	/	/		/		25	2.86			
				183	/	/		/		25	2.85			
			2	172	/	/	2L	/	1.7 10^{-4}	25	3.06			
				162	/	/		/		24	3.05			
				173	/	/		/		24	2.86			
			3	173	/	/	2L	/	1.8 10^{-4}	24	3.06			
				184	/	/		/		23	2.86			
				173	/	/		/		23	3.05			

				m³/h	%	%	mg/m³	mg/m³	kg/h			m	(m)	(m²)
		VOC	1	161	/	/	13.0	/	2.2 10⁻³	25	3.05			
				172	/	/		/		25	2.86			
				183	/	/		/		25	2.85			
			2	172	/	/	12.5	/	2.1 10⁻³	25	3.06			
				162	/	/		/		24	3.05			
				173	/	/		/		24	2.86			
			3	173	/	/	12.2	/	2.2 10⁻³	24	3.06			
				184	/	/		/		23	2.86			
				173	/	/		/		23	3.05			
P1	2023-10-04		1	173	/	/	2L	/	1.7×10⁻⁴	224	3.05	15	0.15	0.02
				162	/	/		/		24	2.86			
				162	/	/		/		24	2.85			
			2	172	/	/	2L	/	1.7×10⁻⁴	25	3.06			
				173	/	/		/		24	3.05			
				162	/	/		/		25	2.86			
			3	172	/	/	2L	/	1.7×10⁻⁴	25	3.06			
				161	/	/		/		25	2.86			
				173	/	/		/		24	3.05			

				m³/h	%	%	mg/m³	mg/m³	kg/h			m	(m)	(m²)
		VOC	1	173	/	/	13.3	/	2.2×10⁻³	224	3.05			
				162	/	/		/		24	2.86			
				162	/	/		/		24	2.85			
			2	172	/	/	13.5	/	2.3×10⁻³	25	3.06			
				173	/	/		/		24	3.05			
				162	/	/		/		25	2.86			
			3	172	/	/	12.7	/	2.1×10⁻³	25	3.06			
				161	/	/		/		25	2.86			
				173	/	/		/		24	3.05			
P3	2023-10-03		1	1113	/	/	3.93	/	4.4×10⁻³	31	2.90	18	0.4	0.13
				1113	/	/		/		31	2.90			
				1115	/	/		/		31	2.90			
			2	1031	/	/	3.77	/	4.0×10⁻³	31	2.69			
				1114	/	/		/		31	2.90			
				1033	/	/		/		31	2.68			
			3	1114	/	/	3.91	/	4.3×10⁻³	31	2.90			
				1031	/	/		/		31	2.68			
				1116	/	/		/		30	2.90			

m^3/ î ķ

			m^3/h	%	%	mg/m^3	mg/m^3	kg/h			m	(m)	(m^2)
P3	2023-10-04	1	1136	/	/		/		31	2.88			
			1135	/	/	3.87	/	$4.3\ 10^{-3}$	31	2.88			
			1053	/	/		/		30	2.67			
		2	1135	/	/		/		31	2.89			
			1137	/	/	3.81	/	$4.3\ 10^{-3}$	30	2.88			
			1136	/	/		/		31	2.89			
		3	1215	/	/		/		30	3.08			
			1214	/	/	3.89	/	$4.6\ 10^{-3}$	30	3.09			
			1132	/	/		/		31	2.89			
		1	1136	/	/		/						
						2L		$1.1\ 10$					
											18	0.4	0.13
P3	2023-10-04												

			23000Nm^3/h										
			m^3/h	%	%	mg/m^3	mg/m^3	kg/h			m	(m)	(m^2)
P4	VOC	2	/	/	/	269	/	/	/	/			
		3	/	/	/	199	/	/	/	/			
		1	561	/	/	10.6	/	5.7×10^{-3}	31	3.61			
			532	/	/		/		31	3.45			
			533	/	/		/		31	3.45			
		2	4										

			m^3/h	%	%	mg/m^3	mg/m^3	kg/h			m	(m)	(m^2)
	0-04		542	〉	/		/		20	3.39			
			542	/	/		/		20	3.39			
		2	543	/	/		/		20	3.39			
P4			543	/	/	4.78	/	2.6×10^{-3}	20	3.39			
			543	/	/		/		20	3.39			
		3	543	/	/		/		21	3.39			
			543	/	/	4.36	/	2.4×10^{-3}	21	3.39			
			543	/	/		/		21	3.39			
		1	542	/	/		/		20	3.39			
			542	/	/	0.120	/	6.5×10^{-5}	20	3.39			
			542	/	/		/	ϱ	20	3.39			
		2	543	/	/		/		20	3.39			
			543	/	/	0.139	/	7.5×10^{-5}	20	3.39			
			543	/	/		/		20	3.39			
		3	543	/	/		/		21	3.39			
			543	/	/	0.124	/	6.7×10^{-5}	21	3.39			
	2023-1		543	/	/		/		21	3.39			
	0-04	1	/	/	/	97	/	/	/	/			
P4		2	/	/	/								

				m^3/h	%	%	mg/m^3	mg/m^3	kg/h			m	(m)	(m^2)
				542	/	/		/		20	3.39			
				542	/	/		/		20	3.39			
			2	543	/	/		/		20	3.39			
				543	/	/	5.98	/	3.2×10^{-3}	20	3.39			
				543	/	/		/		20	3.39			
			3	543	/	/		/		21	3.39			
				543	/	/	5.58	/	3.0×10^{-3}	21	3.39			
				543	/	/		/		21	3.39			
			1	542	/	/	2.9	/	1.6×10^{-3}	20	3.39			
			2	543	/	/	2.9	/	1.6×10^{-3}	20	3.39			
			3	543	/	/	2.7	/	1.5×10^{-3}	21	3.39			
P4	2023-10-05		1	561	/	/		/		20	3.38			
				561	/	/	12.4	/	7.0×10^{-3}	20	3.38			
				561	/	/		/		20	3.38			
			2	561	/	/		/		21	3.56			
				586	/	/	12.8	/	7.4×10^{-3}	21	3.56	15	0.05	0.25
				586	/	/		/		21	3.56			
			3	586	/	/		/		21	3.39			
				586	/	/		/	6.9×10^{-3}	21	3.39			
				535	/	/		/		21	3.39			
				561	/	/	0.369	/	2.1×10^{-4}	20	3.38			

				m³/h	%	%	mg/m³	mg/m³	kg/h			m	(m)	(m²)
P4	2023-10-05		1	561	/	/		/		20	3.38			
				561	/	/		/		20	3.38			
			2	561	/	/	0.397	/	2.3×10⁻⁴	21	3.56			
				586	/	/		/		21	3.56			
				586	/	/		/		21	3.56			
			3	586	/	/	0.349	/	2.0×10⁻⁴	21	3.39			
				586	/	/		/		21	3.39			
				535	/	/		/		21	3.39			
			1	/	/	/	229	/	/					
			2	/	/	/	309	/	/					
			3	/	/	/	229	/	/					
		VOC	1	561	/	/	10.7	/	6.0×10⁻³	20	3.38			
				561	/	/		/		20	3.38			
				561	/	/		/		20	3.38			
			2	561	/	/	10.5	/	6.1×10⁻³	21	3.56			
				586	/	/		/		21	3.56			
				586	/	/		/		21	3.56			
			3	586	/	/	10.6	/	6.0×10⁻³	21	3.39			
				586	/	/		/		21	3.39			
				535	/	/		/		21	3.39			

				m³/h	%	%	mg/m³	mg/m³	kg/h			m	(m)	(m²)
			1	561	/	/	22	/	0.012	20	3.38			
				561	/	/		/		20	3.38			
				561	/	/		/		20	3.38			
			2	561	/	/	24	/	0.014	21	3.56			
				586	/	/		/		21	3.56			
				586	/	/		/		21	3.56			
			3	586	/	/	23	/	0.013	21	3.39			
				586	/	/		/		21	3.39			
				535	/	/		/		21	3.39			
P4	2023-10-05		1	544	/	/	4.08	/	2.2 10^{-3}	20	3.38	15	0.05	0.25
				544	/	/		/		20	3.38			
				544	/	/		/		20	3.38			
			2	569	/	/	4.33	/	2.5 10^{-3}	21	3.56			
				569	/	/		/		21	3.56			
				569	/	/		/		21	3.56			
			3	542	/	/	4.03	/	2.2 10^{-3}	21	3.56			
				542	/	/		/		21	3.56			
				542	/	/		/		21	3.56			
			1	544	/	/	0.140	/	7.6×10^{-5}	20	3.38			
				544	/	/		/		20	3.38			
				544	/	/		/		20	3.38			
			2	569	/	/	0.146	/	8.3×10^{-5}	21	3.56			
				569	/	/		/		21	3.56			

				m^3/h	%	%	mg/m^3	mg/m^3	kg/h			m	(m)	(m^2)
			3	542	/	/	2.9	/	1.6×10^{-3}	21	3.39			

P1 P2 P3 P4

P2		6	0.022		0.176
	NO_X	64	0.28		2.24
		3.2	0.012		0.096
P1		2	1.8×10^{-4}		1.44×10^{-3}
	VOC	13.5	2.3×10^{-3}		0.0184
P3		3.93	4.6×10^{-3}		0.0368
		2	1.2×10^{-3}		9.6×10^{-3}
	VOC	4.03	4.6×10^{-3}		0.0368
P4		12.8	7.4×10^{-3}	8000h	/
		0.397	2.3×10^{-4}		/
	VOC	11.3	6.3×10^{-3}		0.0504
		24	0.14		1.12
P4		4.78	2.6×10^{-3}		0.0208
		0.146	8.3×10^{-5}		0.000664
	VOC	6.08	3.3×10^{-3}		0.0264
		3.0	1.7×10^{-3}		0.0136

P1 6

DB37/2801.3-2018 2 50mg/m³ VOC_S

6 DB37/2801.3-2018 1

60mg/m³

P2 SO_2 NO_X

DB37/2374-2018 2“ ” $SO_2$50mg/m³ NO_X100mg/m³

10mg/m³

P3 6

DB37/2801.3-2018 2 50mg/m³

P4 GB14554-93

(DB37/2376—2019) 2 10mg/m³ VOCs

6 DB37/2801.3-2018 1 60mg/m³

2

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3-3

		(m/s)	(kPa)	( )	(%)		
2023-10-03 11:00		1.5	101.26	22.5	54.9	3	8
2023-10-03 14:05		1.9	99.95	24.9	48.9	3	6
2023-10-03 16:20		2.1	99.98	23.6	45.6	3	6
2023-10-03 18:30		2.2	100.52	22.1	49.8	3	7
2023-10-03 11:20		1.5	101.15	22.8	58.2	3	8
2023-10-03 12:40		1.7	101.02	24.3	55.2	3	7
2023-10-03 14:15		1.9	99.95	24.9	48.9	2	4
2023-10-03 15:40		2.0	99.97	24.7	47.5	2	5
2023-10-04 09:15		1.7	101.18	22.3	74.2	3	7
2023-10-04 10:50		2.0	101.12	22.8	70.2	3	6
2023-10-04 13:00		2.2	99.87	24.2	64.2	2	6
2023-10-04 14:50		2.4	100.25	21.5	66.2	5	8
2023-10-05 09:20		2.2	101.52	22.5	46.5	4	7
2023-10-05 10:40		2.0	101.34	23.3	45.3	4	6
2023-10-05 12:00		2.2	101.12	24.0	43.5	4	8
2023-10-05 13:10		2.1	101.01	25.1	43.6	3	7

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2023-10-03	1#		11:30-12:30	1	0.06 mg/m³
			12:50-13:50	2	0.07 mg/m³
			14:25-15:25	3	0.07 mg/m³
			15:50-16:50	4	0.07 mg/m³

			12:50-13:50	2	252 μg/m³
			14:25-15:25	3	250 μg/m³
			15:50-16:50	4	254 μg/m³
			11:30-12:30	1	0.11 mg/m³
			12:50-13:50	2	0.09 mg/m³
			14:25-15:25	3	0.12 mg/m³
			15:50-16:50	4	0.13 mg/m³
			11:30-12:30	1	0.009 mg/m³
			12:50-13:50	2	0.010 mg/m³
			14:25-15:25	3	0.010 mg/m³
			15:50-16:50	4	0.008 mg/m³
2023-10-03	3#		11:21	1	13
			14:20	2	12
			16:31	3	13
			18:47	4	15
			11:30-12:30	1	295 μg/m³
			12:50-13:50	2	294 μg/m³
			14:25-15:25	3	292 μg/m³
			15:50-16:50	4	299 μg/m³
			11:30-12:30	1	0.12 mg/m³
			12:50-13:50	2	0.11 mg/m³
2023-10-03	4#		14:25-15:25	3	0.09 mg/m³
			15:50-16:50	4	0.10 mg/m³
			11:30-12:30	1	0.008 mg/m³

			12:50-13:50	2	0.009 mg/m³
			14:25-15:25	3	0.007 mg/m³
			15:50-16:50	4	0.007 mg/m³
			11:22	1	14
			14:21	2	16
			16:32	3	14
			18:48	4	13
			11:30-12:30	1	245 μg/m³
			12:50-13:50	2	244 μg/m³
			14:25-15:25	3	247 μg/m³
			15:50-16:50	4	242 μg/m³
2023-10-04	1#		09:40-10:40	1	0.05 mg/m³
			11:00-12:00	2	0.06 mg/m³
			13:20-14:20	3	0.06 mg/m³
			14:55-15:55	4	0.05 mg/m³
			09:40-10:40	1	0.005 mg/m³
			11:00-12:00	2	0.004 mg/m³
			13:20-14:20	3	0.003 mg/m³
			14:55-15:55	4	0.003 mg/m³
			09:23	1	<10
			11:24	2	<10
			13:04	3	<10
			15:01	4	<10
			09:40-10:40	1	190 μg/m³
			11:00-12:00	2	194 μg/m³

13:20-14:20	3	195 μg/m³
14:55-15:55	4	202 μg/m³

			13:20-14:20	3	0.006 mg/m³
			14:55-15:55	4	0.008 mg/m³
			09:33	1	12
			11:32	2	11
			13:16	3	13
			15:10	4	12
			09:40-10:40	1	284 μg/m³
			11:00-12:00	2	287 μg/m³
			13:20-14:20	3	290 μg/m³
			14:55-15:55	4	285 μg/m³
2023-10-04	4#		09:40-10:40	1	0.10 mg/m³
			11:00-12:00	2	0.08 mg/m³
			13:20-14:20	3	0.09 mg/m³
			14:55-15:55	4	0.11 mg/m³
			09:40-10:40	1	0.009 mg/m³
			11:00-12:00	2	0.010 mg/m³
			13:20-14:20	3	0.008 mg/m³
			14:55-15:55	4	0.010 mg/m³
			09:37	1	14
			11:38	2	12
			13:20	3	12
			15:14	4	13
			09:40-10:40	1	247 μg/m³
			11:00-12:00	2	245 μg/m³

			13:20-14:20	3	237 μg/m³
			14:55-15:55	4	242 μg/m³

2023-10-04	1#		09:23-09:26	1	0.00023 %	0.00022 %
			09:41-09:44		0.00022 %	
			09:57-10:00		0.00022 %	
			10:17-10:20		0.00022 %	
			10:43-10:46	2	0.00023 %	0.00023 %
			11:05-11:08		0.00023 %	
			11:25-11:28		0.00023 %	
			11:45-11:48		0.00022 %	
			13:04-13:07	3	0.00023 %	0.00022 %
			13:24-13:27		0.00022 %	
			13:44-13:47		0.00022 %	
			14:04-14:07		0.00023 %	
			14:36-14:39	4	0.00022 %	0.00022 %
			14:56-14:59		0.00022 %	
			15:16-15:19		0.00022 %	
			15:36-15:39		0.00023 %	
			09:23-09:26	1	2L mg/m³	2L mg/m³
			09:41-09:44		2L mg/m³	
			09:57-10:00		2L mg/m³	
			10:17-10:20		2L mg/m³	
			10:43-10:46	2	2L mg/m³	2L mg/m³
			11:05-11:08		2L mg/m³	
			11:25-11:28		2L mg/m³	
			11:45-11:48		2L mg/m³	
			13:04-13:07	3	2L mg/m³	2L mg/m³
			13:24-13:27		2L mg/m³	
			13:44-13:47		2L mg/m³	
			14:04-14:07		2L mg/m³	
			14:36-14:39	4	2L mg/m³	2L mg/m³
			14:56-14:59		2L mg/m³	
			15:16-15:19		2L mg/m³	

			23000Nm³/h		
			15:36-15:39	2L mg/m³	
			09:23-09:26	0.64 mg/m³	0.60 mg/m³
			09:41-09:44	0.61 mg/m³	
			09:57-10:00	0.59 mg/m³	
			10:17-10:20	0.56 mg/m³	
			10:43-10:46	0.58 mg/m³	0.60 mg/m³
			11:05-11:08	0.65 mg/m³	
			11:25-11:28	0.59 mg/m³	
			11:45-11:48	0.58 mg/m³	
			13:04-13:07	0.54 mg/m³	0.58 mg/m³
			13:24-13:27	0.57 mg/m³	
			13:44-13:47	0.59 mg/m³	
			14:04-14:07	0.61 mg/m³	
			14:36-14:39	0.57 mg/m³	0.58 mg/m³
			14:56-14:59	0.60 mg/m³	
			15:16-15:19	0.55 mg/m³	
			15:36-15:39	0.59 mg/m³	
2023-10-04	2#		09:28-09:31	0.00033 %	0.00032 %
			09:42-09:45	0.00033 %	
			10:02-10:05	0.00032 %	
			10:22-10:25	0.00032 %	
			10:50-10:53	0.00032 %	0.00032 %
			11:10-11:13	0.00031 %	
			11:30-11:33	0.00032 %	
			11:50-11:53	0.00032 %	
			13:12-13:15	0.00033 %	0.00032 %
			13:29-13:32	0.00032 %	
			13:49-13:52	0.00033 %	
			14:09-14:12	0.00031 %	
			14:43-14:46	0.00032 %	0.00032 %
			15:01-15:04	0.00033 %	
			15:21-15:24	0.00032 %	
			15:41-15:44	0.00032 %	
			09:28-09:31	2L mg/m³	2L mg/m³
			09:42-09:45	2L mg/m³	

			11:15-11:18		0.00033 %	
			11:35-11:38		0.00032 %	
			11:55-11:58		0.00033 %	
			13:16-13:19		0.00033 %	
			13:34-13:37	3	0.00032 %	0.00033 %
			13:54-13:57		0.00033 %	
			14:14-14:17		0.00033 %	
			14:48-14:51		0.00033 %	
			15:06-15:09	4	0.00032 %	0.00033 %
			15:26-15:29		0.00033 %	
			15:46-15:49		0.00033 %	
			09:33-09:36		2L mg/m³	
			09:47-09:50	1	2L mg/m³	2L mg/m³
			10:02-10:05		2L mg/m³	
			10:27-10:30		2L mg/m³	
			10:55-10:58		2L mg/m³	
			11:15-11:18	2	2L mg/m³	2L mg/m³
			11:35-11:38		2L mg/m³	
			11:55-11:58		2L mg/m³	
			13:16-13:19		2L mg/m³	
			13:34-13:37	3	2L mg/m³	2L mg/m³
			13:54-13:57		2L mg/m³	
			14:14-14:17		2L mg/m³	
			14:48-14:51		2L mg/m³	
			15:06-15:09	4	2L mg/m³	2L mg/m³
			15:26-15:29		2L mg/m³	
			15:46-15:49		2L mg/m³	
			09:33-09:36		1.80 mg/m³	
			09:47-09:50	1	1.76 mg/m³	1.79 mg/m³
			10:02-10:05		1.88 mg/m³	
			10:27-10:30		1.71 mg/m³	
			10:55-10:58		1.83 mg/m³	
			11:15-11:18	2	1.82 mg/m³	1.78 mg/m³
			11:35-11:38		1.73 mg/m³	
			11:55-11:58		1.74 mg/m³	

			13:16-13:19	3	1.76 mg/m³	1.82 mg/m³
			13:34-13:37		1.86 mg/m³	
			13:54-13:57		1.83 mg/m³	
			14:14-14:17		1.81 mg/m³	
			14:48-14:51	4	1.97 mg/m³	1.88 mg/m³
			15:06-15:09		1.84 mg/m³	
			15:26-15:29		1.83 mg/m³	
			15:46-15:49		1.88 mg/m³	
2023-10-04	4#		09:37-09:37	1	0.00039 %	0.00039 %
			09:52-09:55		0.00039 %	
			10:12-10:15		0.00039 %	
			10:32-10:35		0.00039 %	
			11:00-11:03	2	0.00037 %	0.00037 %
			11:20-11:23		0.00036 %	
			11:40-11:40		0.00037 %	
			12:00-12:03		0.00037 %	
			13:20-13:23	3	0.00036 %	0.00036 %
			13:39-13:42		0.00036 %	
			13:59-14:02		0.00037 %	
			14:19-14:22		0.00036 %	
			14:52-14:55	4	0.00036 %	0.00036 %
			15:11-15:14		0.00037 %	
			15:31-15:34		0.00037 %	
			15:51-15:54		0.00036 %	
			09:37-09:37	1	2L mg/m³	2L mg/m³
			09:52-09:55		2L mg/m³	
			10:12-10:15		2L mg/m³	
			10:32-10:35		2L mg/m³	
			11:00-11:03	2	2L mg/m³	2L mg/m³
			11:20-11:23		2L mg/m³	
			11:40-11:40		2L mg/m³	
			12:00-12:03		2L mg/m³	
			13:20-13:23	3	2L mg/m³	2L mg/m³
			13:39-13:42		2L mg/m³	
			13:59-14:02		2L mg/m³	

			14:19-14:22		2L mg/m³	
			14:52-14:55	4	2L mg/m³	2L mg/m³
			15:11-15:14		2L mg/m³	
			15:31-15:34		2L mg/m³	
			15:51-15:54		2L mg/m³	
			09:37-09:37	1	1.72 mg/m³	1.72 mg/m³
			09:52-09:55		1.73 mg/m³	
			10:12-10:15		1.65 mg/m³	
			10:32-10:35		1.78 mg/m³	
			11:00-11:03	2	1.51 mg/m³	1.49 mg/m³
			11:20-11:23		1.53 mg/m³	
			11:40-11:40		1.45 mg/m³	
			12:00-12:03		1.46 mg/m³	
			13:20-13:23	3	1.60 mg/m³	1.51 mg/m³
			13:39-13:42		1.44 mg/m³	
			13:59-14:02		1.43 mg/m³	
			14:19-14:22		1.56 mg/m³	
			14:52-14:55	4	1.53 mg/m³	1.52 mg/m³
			15:11-15:14		1.58 mg/m³	
			15:31-15:34		1.54 mg/m³	
			15:51-15:54		1.42 mg/m³	

			09:32-09:35	1	0.00022 %	0.00022 %
			09:55-09:58		0.00023 %	
			10:14-10:17		0.00022 %	
			10:27-10:30		0.00022 %	
			10:52-10:55	2	0.00021 %	0.00022 %
			11:15-11:18		0.00023 %	
			11:28-11:31		0.00022 %	
			11:44-11:47		0.00023 %	
			12:06-12:09	3	0.00022 %	0.00022 %
			12:32-12:35		0.00022 %	
			12:48-12:51		0.00023 %	
			13:04-13:07		0.00022 %	
			13:20-13:23	4	0.00022 %	0.00022 %

2023-10-05	1#		13:48-13:51		0.00023 %	
			14:04-14:07		0.00022 %	
			14:20-14:23		0.00022 %	
			09:32-09:35	1	2L mg/m³	2L mg/m³
			09:55-09:58		2L mg/m³	
			10:14-10:17		2L mg/m³	
			10:27-10:30		2L mg/m³	
			10:52-10:55	2	2L mg/m³	2L mg/m³
			11:15-11:18		2L mg/m³	
			11:28-11:31		2L mg/m³	
			11:44-11:47		2L mg/m³	
			12:06-12:09	3	2L mg/m³	2L mg/m³
			12:32-12:35		2L mg/m³	
			12:48-12:51		2L mg/m³	
			13:04-13:07		2L mg/m³	
			13:20-13:23	4	2L mg/m³	2L mg/m³
			13:48-13:51		2L mg/m³	
			14:04-14:07		2L mg/m³	
			14:20-14:23		2L mg/m³	
		VOC	09:32-09:35	1	0.54 mg/m³	0.58 mg/m³
			09:55-09:58		0.58 mg/m³	
			10:14-10:17		0.59 mg/m³	
			10:27-10:30		0.59 mg/m³	
			10:52-10:55	2	0.64 mg/m³	0.55 mg/m³
			11:15-11:18		0.52 mg/m³	
			11:28-11:31		0.57 mg/m³	
			11:44-11:47		0.48 mg/m³	
			12:06-12:09	3	0.58 mg/m³	0.56 mg/m³
			12:32-12:35		0.59 mg/m³	
			12:48-12:51		0.57 mg/m³	
			13:04-13:07		0.51 mg/m³	
			13:20-13:23	4	0.56 mg/m³	0.54 mg/m³
			13:48-13:51		0.52 mg/m³	
			14:04-14:07		0.50 mg/m³	
			14:20-14:23		0.57 mg/m³	
2023-10-05			09:37-09:40	1	0.00036 %	0.00036 %

2#	09:57-10:00		0.00036 %	
	10:15-10:18		0.00036 %	
	10:28-10:31		0.00036 %	
	10:58-11:01		0.00036 %	
	11:16-11:19	2	0.00036 %	0.00038 %
	11:32-11:35		0.00036 %	
	11:48-11:51		0.00042 %	
	12:13-12:16		0.00041 %	
	12:33-12:36	3	0.00042 %	0.00042 %
	12:46-12:49		0.00042 %	
	13:00-13:03		0.00042 %	
	13:28-13:31		0.00041 %	
	13:52-13:55	4	0.00041 %	0.00041 %
	14:08-14:11		0.00041 %	
	14:24-14:27		0.00041 %	
	09:37-09:40		2L mg/m³	
	09:57-10:00	1	2L	2L mg/m³

			10:58-11:01	2	1.37 mg/m³	1.42 mg/m³
			11:16-11:19		1.44 mg/m³	
			11:32-11:35		1.62 mg/m³	
			11:48-11:51		1.26 mg/m³	
			12:13-12:16	3	1.28 mg/m³	1.21 mg/m³
			12:33-12:36		1.16 mg/m³	
			12:46-12:49		1.09 mg/m³	
			13:00-13:03		1.30 mg/m³	
			13:28-13:31	4	1.24 mg/m³	1.24 mg/m³
			13:52-13:55		1.28 mg/m³	
			14:08-14:11		1.11 mg/m³	
			14:24-14:27		1.31 mg/m³	
2023-10-05	3#		09:43-09:46	1	0.00041 %	0.00041 %
			10:03-10:06		0.00041 %	
			10:19-10:22		0.00042 %	
			10:32-10:35		0.00041 %	
			11:04-11:07	2	0.00041 %	0.00038 %
			11:20-11:23		0.00042 %	
			11:36-11:39		0.00034 %	
			11:52-11:55		0.00033 %	
			12:19-12:22	3	0.00034 %	0.00034 %
			12:37-12:40		0.00034 %	
			12:50-12:53		0.00033 %	
			13:04-13:07		0.00034 %	
			13:37-13:40	4	0.00033 %	0.00033 %
			13:56-13:59		0.00033 %	
			14:12-14:15		0.00033 %	
			14:28-14:31		0.00033 %	
			09:43-09:46	1	2L mg/m³	2L mg/m³
			10:03-10:06		2L mg/m³	
			10:19-10:22		2L mg/m³	
			10:32-10:35		2L mg/m³	
			11:04-11:07	2	2L mg/m³	2L mg/m³
			11:20-11:23		2L mg/m³	
			11:36-11:39		2L mg/m³	

			11:52-11:55		2L mg/m³	
			12:19-12:22	3	2L mg/m³	2L mg/m³
			12:37-12:40		2L mg/m³	
			12:50-12:53		2L mg/m³	
			13:04-13:07		2L mg/m³	
			13:37-13:40	4	2L mg/m³	2L mg/m³
			13:56-13:59		2L mg/m³	
			14:12-14:15		2L mg/m³	
			14:28-14:31		2L mg/m³	
			09:43-09:46	1	1.29 mg/m³	1.20 mg/m³
			10:03-10:06		1.22 mg/m³	
			10:19-10:22		1.15 mg/m³	
			10:32-10:35		1.16 mg/m³	
			11:04-11:07	2	1.08 mg/m³	1.51 mg/m³
			11:20-11:23		1.34 mg/m³	
			11:36-11:39		1.85 mg/m³	
			11:52-11:55		1.76 mg/m³	
			12:19-12:22	3	1.60 mg/m³	1.72 mg/m³
			12:37-12:40		1.69 mg/m³	
			12:50-12:53		1.74 mg/m³	
			13:04-13:07		1.85 mg/m³	
			13:37-13:40	4	1.86 mg/m³	1.79 mg/m³
			13:56-13:59		1.83 mg/m³	
			14:12-14:15		1.68 mg/m³	
			14:28-14:31		1.78 mg/m³	
			09:50-09:53	1	0.00033 %	0.00033 %
			10:10-10:13		0.00033 %	
			10:23-10:26		0.00033 %	
			10:36-10:39		0.00033 %	
			11:11-11:14	2	0.00033 %	0.00033 %
			11:24-11:27		0.00033 %	
			11:40-11:43		0.00033 %	
			11:56-11:59		0.00033 %	
			12:27-12:30	3	0.00033 %	0.00033 %
			12:41-12:44		0.00033 %	

2023-10-05	4#		12:54-12:57		0.00033 %	
			13:08-13:11		0.00032 %	
			13:44-13:47	4	0.00033 %	0.00033 %
			14:00-14:03		0.00033 %	
			14:16-14:19		0.00033 %	
			14:32-14:35		0.00033 %	
			09:50-09:53	1	2L mg/m³	2L mg/m³
			10:10-10:13		2L mg/m³	
			10:23-10:26		2L mg/m³	
			10:36-10:39		2L mg/m³	
			11:11-11:14	2	2L mg/m³	2L mg/m³
			11:24-11:27		2L mg/m³	
			11:40-11:43		2L mg/m³	
			11:56-11:59		2L mg/m³	
			12:27-12:30	3	2L mg/m³	2L mg/m³
			12:41-12:44		2L mg/m³	
			12:54-12:57		2L mg/m³	
			13:08-13:11		2L mg/m³	
			13:44-13:47	4	2L mg/m³	2L mg/m³
			14:00-14:03		2L mg/m³	
			14:16-14:19		2L mg/m³	
			14:32-14:35		2L mg/m³	
			09:50-09:53	1	1.53 mg/m³	1.72 mg/m³
			10:10-10:13		1.78 mg/m³	
			10:23-10:26		1.70 mg/m³	
			10:36-10:39		1.87 mg/m³	
			11:11-11:14	2	1.73 mg/m³	1.73 mg/m³
			11:24-11:27		1.68 mg/m³	
			11:40-11:43		1.68 mg/m³	
			11:56-11:59		1.82 mg/m³	
			12:27-12:30	3	1.69 mg/m³	1.59 mg/m³
			12:41-12:44		1.62 mg/m³	
			12:54-12:57		1.43 mg/m³	
			13:08-13:11		1.62 mg/m³	
			13:44-13:47	4	1.77 mg/m³	1.62 mg/m³

			14:00-14:03		1.51 mg/m³	
			14:16-14:19		1.65 mg/m³	

VOCs 1.88mg/m³

6 DB37/2801.6-2018 3 VOCs

2.0mg/m³ 0.13mg/m³ 0.01mg/m³

GB14554-93 1.5mg/m3 0.06mg/m³

0.299mg/m³ GB16297-1996

1.0mg/m3 2mg/m³

GB16297-1996 12.0mg/m³

9-6

2023-10-04		pH	8.6	8.6 ~8.7
			8.7	
			8.7	
			8.6	
			18 mg/L	19 mg/L
			20 mg/L	
			19 mg/L	
			20 mg/L	
			8.50 mg/L	8.96 mg/L
			8.94 mg/L	
			9.33 mg/L	
			9.08 mg/L	
			0.58 mg/L	0.54 mg/L
			0.53 mg/L	
			0.55 mg/L	
			0.52 mg/L	

			11 mg/L	12 mg/L
			13 mg/L	
			12 mg/L	
			11 mg/L	
			0.01L mg/L	0.01L mg/L
			0.01L mg/L	
			0.01L mg/L	
			0.01L mg/L	
			0.160 mg/L	0.164 mg/L
			0.151 mg/L	
			0.178 mg/L	
			0.169 mg/L	
2023-10-04			0.2L mg/L	0.2L mg/L
			0.2L mg/L	
			0.2L mg/L	
			0.2L mg/L	
		[a]	0.004L g/L	0.004L g/L
			0.004L g/L	
			0.004L g/L	
			0.004L g/L	
2023-10-05		pH	8.6	8.5~8.7
			8.7	
			8.5	
			8.7	
			21 mg/L	21 mg/L
			22 mg/L	
			20 mg/L	
			20 mg/L	
			8.60 mg/L	8.24 mg/L
			8.14 mg/L	
			7.87 mg/L	
			8.33 mg/L	

			0.54 mg/L	0.56 mg/L
			0.58 mg/L	
			0.57 mg/L	
			0.56 mg/L	
			11 mg/L	12 mg/L
			12 mg/L	
			11 mg/L	
			12 mg/L	
			0.01L mg/L	0.01L mg/L
			0.01L mg/L	
			0.01L mg/L	
			0.01L mg/L	
2023-10-05			0.173 mg/L	0.178 mg/L
			0.185 mg/L	
			0.162 mg/L	
			0.193 mg/L	
			0.2L mg/L	0.2L mg/L
			0.2L mg/L	
			0.2L mg/L	
			0.2L mg/L	
		[a]	0.004L g/L	0.004L g/L
			0.004L g/L	
			0.004L g/L	
			0.004L g/L	
1 2		“ +L”	1/2	

9-6(b);

2023-10-03		pH	8.45	8.36~8.48
			8.48	

23000Nm^3/h

			337mg/L	338.3mg/L
			340mg/L	
			338mg/L	
			955 mg/L	946.7mg/L
			940 mg/L	
			945mg/L	
		pH	8.42	8.42 8.47
			8.47	
			35mg/L	35.6mg/L
			36mg/L	
			mg/L	
			0.84 mg/L	0.90mg/L
2023-10-5			0.93mg/L	
			0.92mg/L	
			338mg/L	345.7mg/L
			350mg/L	
			349mg/L	
			980 mg/L	976.7mg/L
			980mg/L	
			970mg/L	

9-6(c)

		(mg/l)			(mg/l)			PH		(m3)
				(t)			(t)			
	2023-08-01	31.9	150	0.0237	0.905	25	0.000674	8.72	/	745
	2023-08-02	32.3	150	0.0207	0.784	25	0.000503	8.74	/	641
	2023-08-03	47.1	150	0.0285	6.76	25	0.00409	8.33	/	605
	2023-08-04	33.6	150	0.0405	4.66	25	0.00561	8.21	/	1204
	2023-08-05	35	150	0.0301	10	25	0.00861	7.92	/	860
	2023-08-06	31.1	150	0.0232	9.05	25	0.00675	8.21	/	746
	2023-08-07	30.4	150	0.0245	10.3	25	0.00827	8.26	/	805
	2023-08-08	29.8	150	0.0242	8.49	25	0.0069	8.25	/	812
	2023-08-09	30.7	150	0.0248	4.64	25	0.00375	7.98	/	809
	2023-08-10	31.1	150	0.0233	0.989	25	0.000741	7.92	/	749
	2023-08-11	29.2	150	0.0248	0.674	25	0.000571	8.05	/	847
	2023-08-12	26.3	150	0.0158	0.672	25	0.000405	8.12	/	603
	2023-08-13	27.9	150	0.0148	0.812	25	0.000429	8.07	/	529
	2023-08-14	24.9	150	0.0153	0.722	25	0.000445	8.27	/	616
	2023-08-15	27.2	150	0.0339	0.786	25	0.000982	8.31	/	1249
	2023-08-16	27.5	150	0.0151	0.711	25	0.000392	8.39	/	551
	2023-08-17	26.8	150	0.0185	0.671	25	0.000465	8.36	/	693
	2023-08-18	27.4	150	0.0181	0.925	25	0.000611	8.36	/	660
	2023-08-19	21.8	150	0.0136	0.883	25	0.000552	8.38	/	625
	2023-08-20	25.4	150	0.0145	0.842	25	0.000479	8.42	/	569
	2023-08-21	23.7	150	0.0121	0.832	25	0.000425	8.49	/	511
	2023-08-22	20	150	0.0111	0.832	25	0.000461	8.53	/	554
	2023-08-23	18.7	150	0.0101	0.869	25	0.000471	8.52	/	542
	2023-08-24	18.6	150	0.0103	0.893	25	0.000492	8.48	/	551
	2023-08-25	17	150	0.00982	0.899	25	0.000519	8.47	/	577
	2023-08-26	17.9	150	0.00962	1.34	25	0.000719	8.5	/	538
	2023-08-27	24	150	0.0118	1.32	25	0.000648	8.56	/	490
	2023-08-28	22.6	150	0.0134	1.14	25	0.000675	8.48	/	594
	2023-08-29	19.4	150	0.0132	1.08	25	0.000732	8.46	/	680
	2023-08-30	17.9	150	0.00966	1.01	25	0.000544	8.44	/	541
	2023-08-31	18	150	0.0104	1.03	25	0.000596	8.45	/	576
	2023-09-01	18.6	150	0.0145	1.09	25	0.000854	8.36	/	782
	2023-09-02	20.5	150	0.0167	0.987	25	0.000807	8.46	/	817
	2023-09-03	18.4	150	0.012	1.02	25	0.000662	8.48	/	649
	2023-09-04	22.7	150	0.0148	1.1	25	0.000715	8.46	/	652
	2023-09-05	21.4	150	0.0128	1.01	25	0.000602	8.52	/	597
	2023-09-06	21.3	150	0.023	0.985	25	0.00106	8.6	/	1078

	2023-09-07	30.1	150	0.0396	0.996	25	0.00131	8.64	/	1314
	2023-09-08	30.5	150	0.028	0.998	25	0.000917	8.6	/	919
	2023-09-09	30.8	150	0.0177	0.994	25	0.000571	8.6	/	575
	2023-09-10	31.4	150	0.0199	0.996	25	0.00063	8.52	/	632
	2023-09-11	29.7	150	0.0189	1.01	25	0.000639	8.51	/	636
	2023-09-12	29.8	150	0.0151	1.05	25	0.000532	8.47	/	509
	2023-09-13	28.3	150	0.016	1.1	25	0.00062	8.54	/	566
	2023-09-14	24.6	150	0.0128	1.09	25	0.000567	8.57	/	522
	2023-09-15	29.4	150	0.0231	1.13	25	0.000892	8.44	/	786
	2023-09-16	26.8	150	0.0145	1.12	25	0.000608	8.46	/	542
	2023-09-17	28.9	150	0.0165	1.15	25	0.00066	8.52	/	572
	2023-09-18	30.2	150	0.0166	1.1	25	0.000605	8.46	/	549
	2023-09-19	31.2	150	0.0175	1.17	25	0.000658	8.34	/	560
	2023-09-20	29.7	150	0.00576	1.17	25	0.000227	8.39	/	194
	2023-09-21	36.1	150	0.00838	0.229	25	0.0000532	8.4	/	232
	2023-09-22	27.2	150	0.014	0.116	25	0.0000599	8.44	/	516
	2023-09-23	25.1	150	0.0133	0.194	25	0.000103	8.47	/	531
	2023-09-24	21.4	150	0.0134	0.25	25	0.000156	8.5	/	623
	2023-09-25	24.7	150	0.0132	0.374	25	0.000201	8.49	/	537
	2023-09-26	18.7	150	0.0396	0.214	25	0.00131	8.7	/	584
	2023-09-27	22.1	150	0.0396	0.44	25	0.000321	8.69	/	730
	2023-09-28	23.6	150	0.0198	0.386	25	0.000323	8.65	/	837
	2023-09-29	24.1	150	0.00731	0.318	25	0.0000968	8.08	/	304
	2023-09-30	25.6	150	0.016	0.41	25	0.000256	8.72	/	625
	2023-10-01	23.5	150	0.0186	0.282	25	0.000223	8.8	/	792
	2023-10-02	23.5	150	0.0166	0.641	25	0.000453	8.78	/	707
	2023-10-03	25.9	150	0.0138	0.374	25	0.000199	8.78	/	532
	2023-10-04	28.2	150	0.0187	0.781	25	0.000518	8.75	/	664
	2023-10-05	22.7	150	0.0138	0.476	25	0.000289	8.64	/	608
	2023-10-06	17.8	150	0.016	0.402	25	0.000361	8.56	/	898
	2023-10-07	17.4	150	0.0158	0.366	25	0.000332	8.52	/	908
	2023-10-08	18.7	150	0.014	0.782	25	0.000585	8.42	/	748
	2023-10-09	16	150	0.0129	0.475	25	0.000383	8.48	/	806
	2023-10-10	16.1	150	0.0155	0.439	25	0.000424	8.42	/	965
	2023-10-11	15.4	150	0.0113	0.364	25	0.000266	8.51	/	730
	2023-10-12	19	150	0.0102	0.32	25	0.000172	8.52	/	538
	2023-10-13	20.1	150	0.0138	0.305	25	0.00021	8.5	/	689
	2023-10-14	24.1	150	0.0166	1.41	25	0.000969	8.51	/	688
	2023-10-15	108	150	0.0521	21.1	25	0.0102	7.99	/	483
	2023-10-16	9.69	150	0.00143	0.622	25	0.0000921	7.36	/	148
	2023-10-17	37.4	150	0.0114	8.14	25	0.00248	7.5	/	305
	2023-10-18	19.2	150	0.0122	18.8	25	0.0119	8.28	/	633

	2023-10-19	10.2	150	0.00133	0.409	25	0.0000532	7.98	/	130
	2023-10-20	10.6	150	0.00139	0.254	25	0.0000333	7	/	131
	2023-10-21	13	150	0.00169	0.272	25	0.0000354	6.97	/	130
	2023-10-22	16.8	150	0.0163	9.19	25	0.00896	8.63	/	975
	2023-10-23	20.9	150	0.0255	8.8	25	0.0108	8.62	/	1221
	2023-10-24	25.8	150	0.0137	2.14	25	0.00114	8.35	/	532
	2023-10-25	20.4	150	0.0203	0.398	25	0.000397	8.47	/	997
	2023-10-26	18.1	150	0.0116	0.464	25	0.000299	8.55	/	643
	2023-10-27	18.3	150	0.0173	0.37	25	0.00035	8.71	/	946
	2023-10-28	19.9	150	0.00962	0.38	25	0.000184	8.75	/	483
	2023-10-29	20.1	150	0.0175	0.498	25	0.000434	8.6	/	871
	2023-10-30	20.3	150	0.0166	0.428	25	0.00035	8.58	/	819
	2023-10-31	20.7	150	0.014	0.433	25	0.000293	8.58	/	677
		25	/	0.017	1.95	/	0.00139	8.4	/	657
		108	/	0.0521	21.1	/	0.0119	8.8	/	1314
		9.69	/	0.00133	0.116	/	0.0000333	6.97	/	130
		--	/	1.56	--	/	0.128	--	/	60439

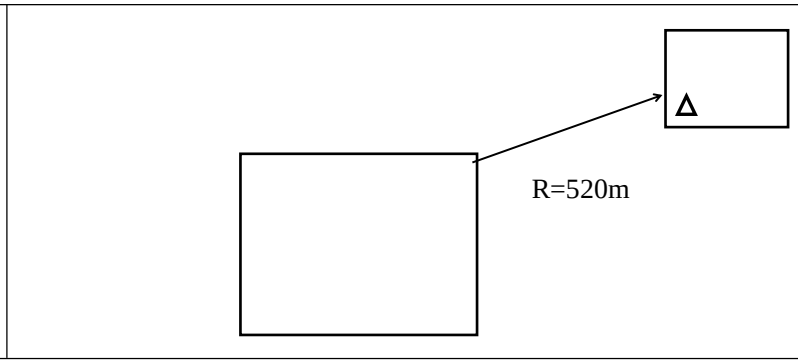
GB/T19923-2005 pH

COD NH3-N SS

pH CODcr

9-7

				Leq[dB(A)]		m/s
2023-10-03	200m		18:10-18:20	52.6		1.6
	200m		22:54-23:04	43.2		2.6
2023-10-04	200m		18:16-18:26	52.5		2.3
	200m		22:59-23:09	43.2		2.5



					Leq[dB(A)]		m/s
2023-10-03	1			16:35-16:45	54.8		1.6
	2			17:06-17:16	54.5		
	3			17:27-17:37	55.5		
	4			17:42-17:52	55.9		
	1			22:00-22:10	46.2		2.6
	2			22:14-22:24	48.5		
	3			22:26-22:36	48.7		
	4			22:40-22:50	48.9		
2023-10-04	1			17:17-17:27	55.1		2.3
	2			17:30-17:40	55.2		
	3			17:43-17:53	55.6		
	4			17:57-18:07	56.0		
	1			22:01-22:11	45.4		2.5
	2			22:15-22:25	46.1		
	3			22:28-22:38	46.9		
	4			22:41-22:51	46.9		
	N						

56.0dB(A 48.9dB

A GB12348-2008 3

				t/a		
	S1	CuO		18.19	HW49 900-041-49	
	S2			37.95	HW49 900-041-49	
	S3			90	HW08 900-214-08	
	S4			1.0	HW49 900-039-49	
	S5			0.05	HW49 900-047-49	
	S6			2.0	HW08 900-214-08	

91370400743359815 1

23000Nm³/h VOCs3.42t/a 6.0t/a 24.57t/a

1.2t/a

23000Nm³/h

ZZZL 2022 41 VOCs1.32t/a 4.95t/a

12.6t/a 1.32t/a

8000

9-3 VOCs 0.13t/a

0.176t/a 2.24t/a 0.11t/a

3-2

2023 10 3 -5

P1 P2 P3

P4 VOCs

57% 98%

P1 6

DB37/2801.3-2018 2 VOCs

6 DB37/2801.3-2018 1 P2

SO_2 NO_X DB37/2374-2018

2“ ” P3 6

DB37/2801.3-2018 2 P4

GB14554-93

(DB37/2376—2019) 2 VOCs

6 DB37/2801.3-2018

1

VOCs 1.88mg/m³

6 DB37/2801.6-2018 3

0.13mg/m³ 0.01mg/m³ GB14554-93

0.299mg/m³

GB16297-1996 2mg/m³

GB16297-1996

GB/T19923-2005 pH COD NH_3-N

SS

pH CODcr

56.0dB(A 48.9dB

A GB12348-2008 3

(2019)

2019 6 19

2019-370300-26-03-030901

23000Nm3/h 2022 9 14

[2022]96 23000Nm3/h

5 3

“ ”

2015 34

1

2

3

-

GB1556.1-1995 - GB1556.2-1995

DB37/T2643-2014

23000Nm³/h

10-1 10-2

	P1 DA003	VOCs	1	
	P2 DA005	NO_X SO_2	1	
	P3 DA006	VOCs	1	
	P4 DA002		1 /	
		VOCs	1	
		VOCs	1	
		TDS SS BOD_5 COD	1 /	
		Leq	1	
			1	—

1		--	45	--
2		GDS-TOX	7	--

3		BH-4	2	--
4	VOC	PGM-7320	1	

23000Nm^3/h

23000Nm³/h

2019 “ ” “ ”

2019 6 19 22

01-370403-07-02-704768

23000Nm³/h 2022 9

14 [2022]96 23000Nm³/h

2023 8 25

23000Nm³/h

2023 8 26

23000Nm³/h

2023 10 3 -5

P1 VOCs

P4 P2

P3 VOCs VOCs

“ + ” 15 P1

DA006

18 P3

+

SO_2 NO_X 30 P2

15 P4

2015 34

2023 10 3 -5 P1

P2 P3 P4

77.7% 85.2%

P1 6
DB37/2801.3-2018 2 VOCs
6 DB37/2801.3-2018 1 P2 SO_2 NO_X
DB37/2374-2018 2“ ”
P3 6
DB37/2801.3-2018 2 P4
GB14554-93
(DB37/2376—2019) 2 VOCs
6 DB37/2801.3-2018 1

VOCs 1.88mg/m³
6 DB37/2801.6-2018 3
0.13mg/m³ 0.01mg/m³
GB14554-93 0.299mg/m³
GB16297-1996 2mg/m³
GB16297-1996

GB/T19923-2005 pH COD NH3-N
SS
pH CODcr

56.0dB(A 48.9dB

A GB12348-2008 3

9-3 VOCs 0.13t/a

0.176t/a 2.24t/a 0.11t/a

91370400743359815 1

23000Nm³/h VOCs3.42t/a 6.0t/a 24.57t/a

1.2t/a

23000Nm³/h

ZZZL 2022 41 VOCs1.32t/a 4.95t/a

12.6t/a 1.32t/a

P4 VOCs

57% 98% VOCs

23000Nm³/h

		23000Nm^3/h										
		44										
		23000Nm^3/h			2020.10				23000Nm^3/h			2022.2
		2280							39			1.71
									[2022]96			2022.9.14
		2680							135			4.45
		55		30		15		15		0		20
												8000
					255400							

1.

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11.

.. 12