HJ

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GB 3836.1

GB/T 4208 IP

GB/T 16157

HJ 38

HJ 168

HJ 604 -

HJ 38 HJ 604

HJ 38 HJ 604

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5.1.4

5.2.4.1

/ /

5.2.4.2

5.2.4.3

5.2.4.5

5.2.1

5.2.2

5.2.3

5.2.4

120 20

GB/T 4208

IP55 GB3836.1

30 kg

a) 0 40

b) ≤ 85%

c) 80 106 kPa

d) AC 220 ± 22 V 50 ± 1 Hz DC 24 V

15 35 ≤ 85%

20 MΩ

15 35 ≤ 85% 1500 V 50 Hz

1 min

120

20

5 μm

120 20

0.5 1 μm

/

/

10%

/

≤ 0.13 μmol/mol 0.07 mg/m^3

≤ 2.0%

± 2.0%

80% 120%

≤ 2 min

0 40 ± 5.0%

± 10% ± 2.0%

± 5.0%

VOCs 1

1		0.9 1.2
2		0.8 1.2
3		0.8 1.2
4		0.75 1.15

2 ≤ 5.0%

≥ 95%

≤ 1.49 μmol/mol 0.8 mg/m^3

≤ 2.0%

± 2.0%

80% 120%

≤ 2 min

0 40 ± 5.0%

± 10% ± 2.0%

± 10% ± 2.0%

± 2.0%

± 5.0%

VOCs 1

2 ≤ 5.0%

≥ 95%

2

≤ 2

20 mg/m^3

200 mg/m^3

≤ 2.0%

0.3 mg/m^3

7 X_i i i=1,2...,n

1 S_0 S_0

$$S_0=\sqrt{\frac{\sum_{i=1}^{\mathrm{n}}\left(X_i-\overline{X}\right)^2}{n-1}} \qquad \cdots\cdots\cdots\cdots\cdots\cdots\cdots \quad 1$$

S_0 —— μmol/mol mg/m^3

X_i —— i μmol/mol mg/m^3

$\overline{X}$ —— n μmol/mol mg/m^3

i —— i=1 7

n —— n=7

2 R_{DL}

6.1.1.1 6.2.1.1

$$R_{DL}=3.143S_0 \qquad \cdots\cdots\cdots\cdots\cdots\cdots\cdots \quad 2$$

R_{DL} —— μmol/mol mg/m^3

S_0 —— μmol/mol mg/m^3

3.143 —— 7 99% t

6.1.1.2 6.2.1.2

50% ± 5%

C_i 6 3

6.1.1.3 6.2.1.3

$$S_r=\frac{1}{\overline{C}}\times\sqrt{\frac{\sum_{i=1}^{n}\left(C_i-\overline{C}\right)^2}{n-1}}\times 100\% \qquad \cdots\cdots\cdots\cdots\cdots\cdots\cdots \quad 3$$

S_r—— %

C_i——

d) 0 ± 2 30 min t_3

M_3

e) 20 ± 2 30 min t_4

M_4

f) 5

6.1.2.2 6.2.2.2

$$b_{st}=\frac{\left(M_3-Z_3\right)-\dfrac{\left(M_2-Z_2\right)+\left(M_4-Z_4\right)}{2}}{R}\times100\%\quad\frac{\left(M_1-Z_1\right)-\dfrac{\left(M_0-Z_0\right)+\left(M_2-Z_2\right)}{2}}{R}\times100\%\cdots\quad 5$$

b_{st}-------- %

M_0-------- t_0 μmol/mol mg/m^3

M_1-------- t_1 μmol/mol mg/m^3

M_2-------- t_2 μmol/mol mg/m^3

M_3-------- t_3 μmol/mol mg/m^3

M_4-------- t_4 μmol/mol mg/m^3

Z_0-------- t_0 μmol/mol mg/m^3

Z_1-------- t_1 μmol/mol mg/m^3

Z_2-------- t_2 μmol/mol mg/m^3

Z_3-------- t_3 μmol/mol mg/m^3

Z_4-------- t_4 μmol/mol mg/m^3

R--------- μmol/mol mg/m^3

50% ± 5%

T 10%

P

10% Q 6

3 6.2.2.3

$$V=\frac{P-T}{R}\times100\%\quad\frac{Q-T}{R}\times100\%\quad\cdots\cdots\cdots\cdots\quad 6$$

V —— %

T —— μmol/mol mg/m^3

P —— 10% μmol/mol mg/m^3

Q —— 10% μmol/mol mg/m^3

R —— μmol/mol mg/m^3

50% ± 5%

W 10%

X 10%

Y 7

3 6.1.2.3 6.2.2.4

$$U=\frac{X-W}{R}\times 100\% \qquad \frac{Y-W}{R}\times 100\% \qquad \cdots\cdots\cdots\cdots\cdots\cdots \quad 7$$

U —— %

W —— μmol/mol mg/m^3

X —— 10% μmol/mol mg/m^3

Y —— 10% μmol/mol mg/m^3

R —— μmol/mol mg/m^3

50% ± 5% M_0 0.15 mm 10-55-10 Hz 1 /min 10 min 2 h M_1 3 8 6.2.2.5

$$u_c=\frac{\overline{M}-M_0}{R}\times 100\% \qquad \cdots\cdots\cdots\cdots\cdots\cdots \quad 8$$

u_c —— %

M_0 —— μmol/mol mg/m^3

$\overline{M}$ —— f μmol/mol mg/m^3

R —— μmol/mol mg/m^3

a) a_0

b) 90% +10% a_1

c) 80% +20% a_2

a) + 22.4 μmol/mol 16 mg/m^3 224 μmol/mol 160 mg/m^3 b_0

b) 90% + 10% + 22.4 μmol/mol 16 mg/m^3

224 μmol/mol 160 mg/m^3 b_1

c) 80% + 20% + 22.4 μmol/mol 16 mg/m^3

224 μmol/mol 160 mg/m^3 b_2

a_0 b_0

a_1 a_2 b_1 b_2 a_1 a_2 b_1 b_2

3 $\overline{a}_i$ $\overline{b}_i$ 9

6.1.2.4 6.2.2.6

$$IE_i = \frac{\overline{a_i} - \overline{a_0}}{R} \times 100\% \qquad IE_i = \frac{\overline{b_i} - \overline{b_0}}{R} \times 100\% \qquad \cdots\cdots\cdots\cdots\cdots\cdots \; 9$$

IE_i —— %

$\overline{a}_0$ $\overline{a}_i$ —— i 3 μmol/mol mg/m^3

$\overline{b}_0$ $\overline{b}_i$ —— i 3 μmol/mol mg/m^3

R —— μmol/mol mg/m^3

i —— i=1 2

10

6.1.2.5 6.2.2.7

$$f_c = \frac{\frac{S_i}{C_{c,i}}}{\frac{S_{ref}}{C_{c,ref}}} \qquad \cdots\cdots\cdots\cdots\cdots\cdots \; 10$$

f_c ——

S_i —— i

S_{ref} ——

$C_{c,i}$ —— i μmol/mol mg/m^3

$C_{c,ref}$ —— μmol/mol mg/m^3

20% 30% 40% 60% 80% 90% 3

3 11

6.1.2.6 6.2.2.8

$$P_j = \frac{1}{\overline{C_j}} \times \sqrt{\frac{\sum_{i=1}^{2}\left(C_{i,j} - \overline{C_j}\right)^2}{1}} \times 100\% \qquad \text{………..………} \quad 11$$

—— j %

—— j μmol/mol mg/m^3

$C_{i,j}$ —— i j μmol/mol mg/m^3

—— i=1 2

—— j=1 3

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						7.3.2
		≤ 2.0%		≤ 2.0%		7.3.3
		± 2.0% F.S.		± 2.0% F.S.		7.3.4
		80% 120%		80% 120%		7.3.5
		≤ 2 min		≤ 2 min		7.3.6
		± 5.0% F.S.		± 5.0% F.S.		7.3.7
		/		± 2.0% F.S.		7.3.8
		± 2.0% F.S.		± 2.0% F.S.		7.3.9
		/		± 2.0% F.S.		7.3.10
		± 5.0% F.S.		± 5.0% F.S.		7.3.11
			0.9 1.2		0.9 1.2	7.3.12
			0.8 1.2		0.8 1.2	
			0.8 1.2		0.8 1.2	
			0.75 1.15		0.75 1.15	
		≤ 5.0%		≤ 5.0%		7.3.13
		≥ 95%		≥ 95%		7.3.14