

DB44

DB44/ 815-2010

	.....	II
	.....	III
1	.....	1
2	.....	1
3	.....	1
4	.....	3
4.1	.....	3
4.2	VOCs	3
4.3	VOCs	3
4.4	VOCs	4
4.5	VOCs	4
4.6	.....	4
5	.....	4
5.1	.....	4
5.2	.....	4
5.3	.....	5
6	.....	5
A	VOCs	6
B	.....	7
C	.....	8
D	VOCs	9
	.....	13

(Volatile Organic Compounds
M

VOCs)

VOCs

Volatile Organic Compounds

VOCs

(Volatile Organic Compounds	VOCs)	VOCs
VOCs		
	VOCs	

GB/T 16157
GB 16297
HJ/T 1
HJ/T 55

volatile or/C202 900300035C21ic 6(m)o21m0404AaE-pa VOCs16

non-porous substrate

porous substrate

flexographic ink

letterpress ink

lithographic ink

heatset ink

- 1
- 2

maximum acceptable emission concentration

1 h

1 h

[GB 16297-1996, 3.2]

maximum acceptable emission rate

1 h

[GB 16297-1996, 3.3]

fugitive emission

concentration limit at fugitive emission reference point

HJ/T 55 1 h

emission pipe height

[GB 16297-1996, 3.10]

2010 11 1
2010 11 1

2012 12

31 2013 1 1

VOCs

VOCs

VOCs 1

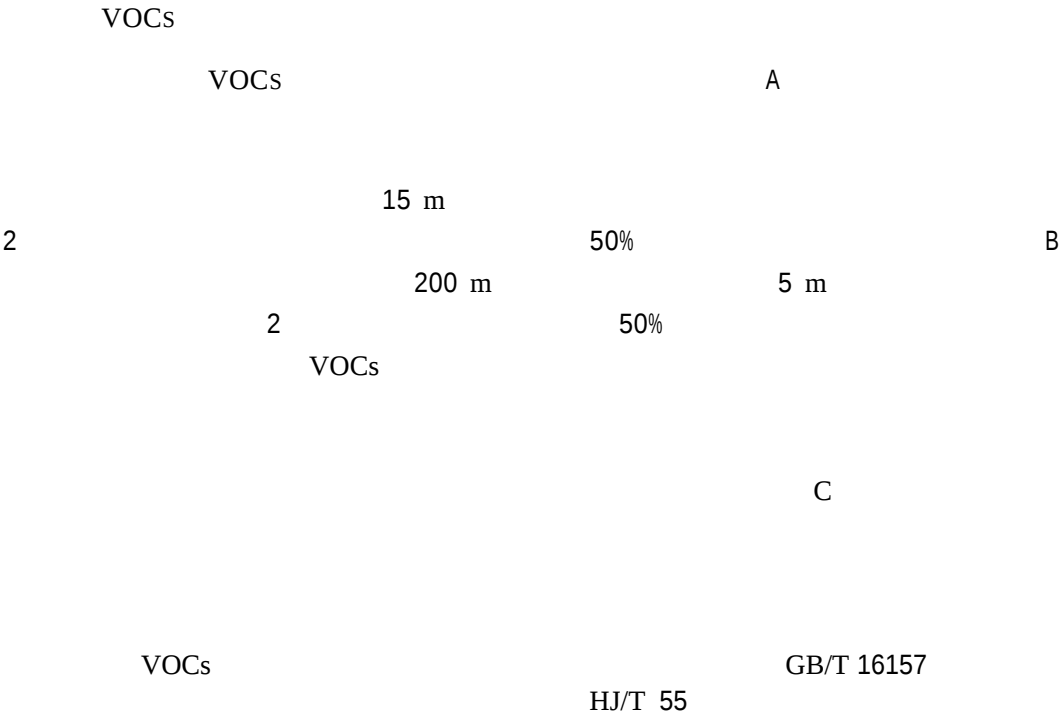
VOCs

	VOCs / (g/L)	
	VOCs	
	--	300
	225	225
	--	700

		mg/m ³		kg/h	
		1	1	0.4	0.4
		30	15	1.8 ^a	1.6 ^a
	VOCs	120	80	5.4	5.1
		1	1	0.4	0.4
		30	15	1.8 ^a	1.6 ^a
	VOCs	180	120	5.4	5.1
^a 1.0kg/h					

VOCs
3

mg/m ³			
			VOCs
0.1	0.6	0.2	2.0



GB/T 16157
 VOCs

HJ/T 1

1 h

1 h

3

1 h

1 h

3
 VOCs

4

VOCs			
1			D ^a
2			
3			
4	VOCs		

VOCs

VOCs

VOCs

VOCs

VOCs

VOCs

VOCs

VOCs

15 m

$$Q = Q_c (h/15)^2$$

Q — VOCs kg/h
 Q_c — 1 kg/h
 h — m

1 2

VOCs

C1

$$Q = Q_1 + Q_2 \dots\dots\dots (C1)$$

Q — VOCs kg/h
 Q_1 Q_2 — 1 2 VOCs kg/h
 C2

$$h = \sqrt{\frac{1}{2}(h_1^2 + h_2^2)} \dots\dots\dots (C2)$$

h — m
 h_1 h_2 — 1 2 m
 1 2 1
 C3

$$x = a(Q - Q_1) / Q = aQ_2 / Q \dots\dots\dots (C3)$$

x — 1 m
 a — 1 2 m
 Q Q_1 Q_2 — C.2.1

VOCs

VOCs

VOCs

1 EPA Mehtod TO-17 .

2 GB/T 16157

3 GB 50325

2006

E

(TVOC)

VOCs

VOCs

1)

2)

D.1

D.3

VOCs

1		
2		
3		
4	VOCs	
a		

VOCs

80%

D.2

VOCs

0.01mg/m³

GB/T 16157

/

- a)
- b)
- c)

2 3%

/

- a)
- b)
- c)

GB/T 16157-1996

D.4.6

VOCs

FID,ECD MSD

HP-VOC

0 0.5L/min

GB/T 16157 9.3.5

μg

D1

$$C_c = \frac{m_i - m_o}{V_{nd} R} \dots\dots\dots (D1)$$

C_c ——
 m_i ——
 m_o ——
 V_{nd} ——
 R ——

i

μg

i

L

μg

mg/m³

%

D2

VOCs

$$C_{\text{VOCs}} = \sum_{i=1}^{i=n} C_c \dots\dots\dots (D2)$$

C_{VOCs} ——

VOCs

mg/m³

1

2

2.5 cm

40% 60%

D3

R

$$R = \frac{(t-u) \times V_s}{S} \times 100\% \dots\dots\dots(D3)$$

R——

t——

u——

V_s——

S——

mg/m³

mg/m³

L

μg

60%<R<120%

R

10%

10%

5%

10%

10%

± 10%

GC

- [1] .[M] .2003.
- [2] GB 50325
