

2⁷00

DB44

002. -

A

. _ _ . .

. _ _ _

	.....	II
	.....	III
1	.....	1
2	.....	1
3	.....	1
4	.....	2
4.1	.....	2
4.2	.....	2
5	.....	2
5.1	VOCs	2
5.2	VOCs	3
5.3	VOCs	3
5.4	.....	4
6	.....	4
6.1	.....	4
6.2	.....	4
6.4	.....	5
7	.....	5
A	VOCs	6
B	VOCs	7
C	.....	8
D	.....	9
E	VOCs	10
	.....	14

Compounds	VOCs	VOCs	VOCs	Volatile Organic
	GB/T 1.1-2009			DB44/27-2001
2010	10	2010	10	22
2010	10	22		

VOCs

—

VOCs

VOCs
VOCs

·

GB/T 3186
GB/T 15089
GB/T 16157
GB 16297
GB 24409
HJ/T 1
HJ/T 55

/

/—

automobile

/

/

/.

a

b

400 kg

surface coating

//

drying room

/0

volatile organic compounds

/1

101325 Pa

250

VOCs

standard state

273.15 K

101325 Pa

[GB 16297-1996, 3.1]

00-2-

maximum acceptable emission concentration

1 h

1 h

/3 [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]

VOCs

total VOCs emission of automobile surface coating line

VOCs

00-

2010 11 01

2010 11 01

00-

2012 12 31

2013 1 1

0.1-1-

VOCs

VOCs

1

VOCs

	VOCs					
	g/m ²					
	40	20	GB/T 15089	M1		
	75	55	GB/T 15089	N2	N3	
	90	70	GB/T 15089	N1	N2	N3
	225	150	GB/T 15089	M2	M3	
	GB/T 15089	M1	M2	M3	N1	N2 N3
M1					9	
M2				9		5,000 kg
M3				9		5,000 kg
N1			3,500 kg			
N2			3,500 kg		12,000 kg	
N3			12,000 kg			

1. VOCs

VOCs 50mg/m³ VOCs 2 90% VOCs

	mg/m ³		VOCs kg/h					
			15 m		30 m		60 m	
	1	1	0.3	0.2	1.6	1.0	3.2	1.9
a	30	18	2.4	1.4	12.8	7.7	25.6	15.4
a	100	60	3.0	2.4	16.0	9.6	32.0	19.2
VOCs	150	90	4.6	2.8	25.0	15.0	50.0	30.0
a GB16297								
			15m	30m	60m	1.0kg/h	6.9kg/h	27kg/h
D								

1/ VOCs

VOCs 3

VOCs

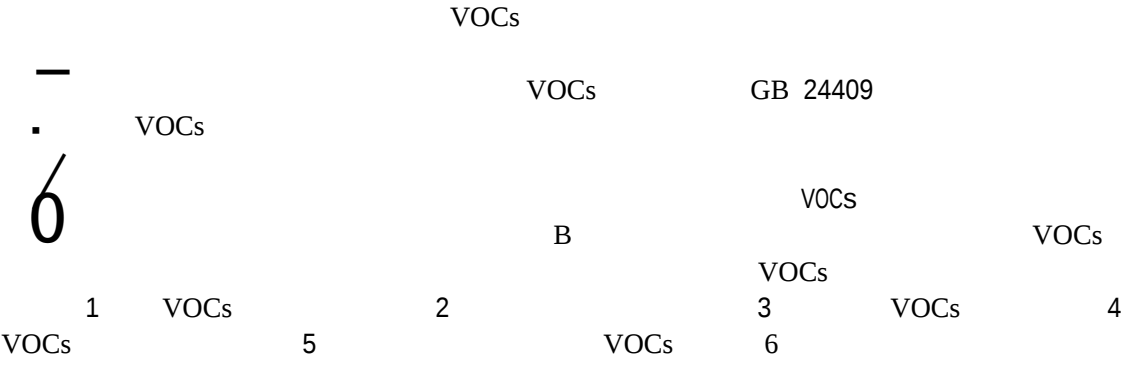
Ø 2 -

4

4		a
5	VOCs	
a		

20
20-
20.
3

00 2 -



02 -

Figure 1 illustrates two models, C1 and C2, for the analysis of the data. The models are represented by schematic diagrams showing the relationship between various parameters and units.

Model C1: The diagram shows a vertical column of horizontal bars. The parameters are labeled as Q , Q_a , (Q_{a+1}) , (Q_a) , (h_a) , (h_{a+1}) , and (h_a) . The units are kg/h and m . The distance is 15 m . The model is associated with the equation $.....(C1)$.

Model C2: The diagram shows a similar vertical column of horizontal bars. The parameters are labeled as Q , Q_c , $h/15^2$, and h . The units are kg/h and m . The distance is 15 m . The model is associated with the equation $.....(C2)$.

A

VOCs

A-

VOCs

VOCs

A
A-

- 1 EPA Mehtod TO-17.
- 2 GB/T 16157

- 3 GB50325 (TVOC) 2006 E

A:
A: - VOCs VOCs

A:
A: / E.1 E.3

A- VOCs

1		a
2		
3		
4		
5	VOCs	
a		

A /

VOCs 80%
E.2

A

$$\frac{A}{A} = 1$$

A✓
A✓
A✓
A✓
A✓
A✓
A✓
A✓ 2

-
-
-

A//

a)
b)



E.4.6

AO—

AAQ.

AO
AO
AO
AO

VOCs mg m³

2
A02
A02-

2.5cm

40 60%

R

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

..... (E3)

R —

t —

u —

V_s —

S —

mg/m³

mg/m³

L

µg

60%<R<120%

A02
A02 -

A02 .
A02/ 10%

5%

10%

10%

± 10%

A020
A020 -
A020.

GC

A020/
A0200

Ø 2 -

[1]

[M].

.2003.

[2] GB 50325
