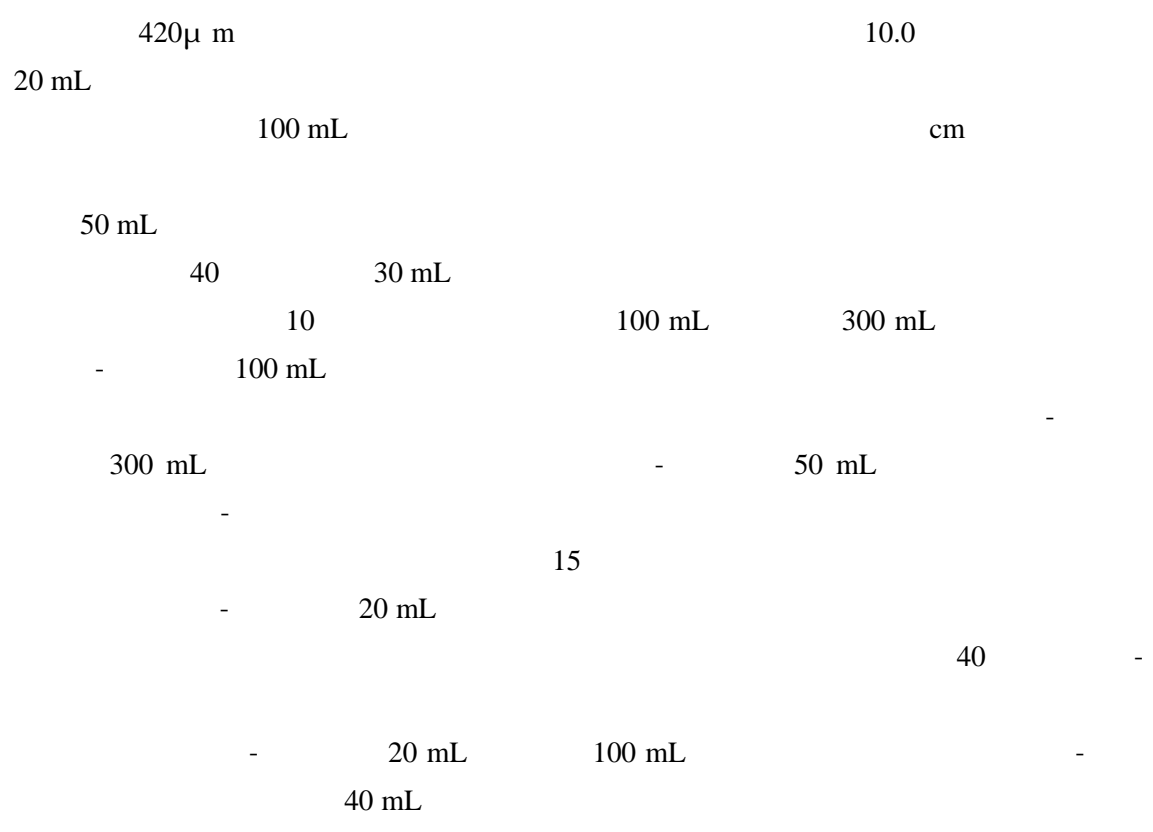
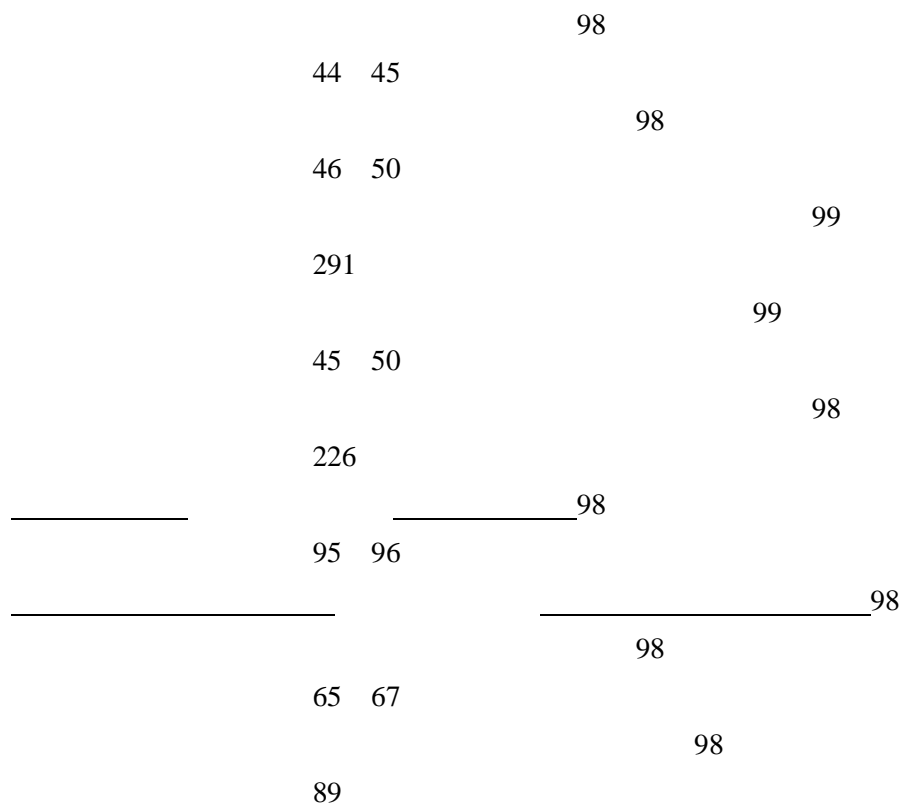




[]

- BHC	- BHC99		
	157 159		
- BHC	- BHC98		
	308 310		
- BHC	- BHC99		
	112 114		
- BHC	- BHC95		
	137 140		
<i>pp'</i> - DDD	<i>pp'</i> - DDD98		
	108 110		
<i>pp'</i> - DDE	<i>pp'</i> - DDE99		
	88 90		
<i>op'</i> - DDT	<i>op'</i> - DDT98		
	73 75		
<i>pp'</i> - DDT	<i>pp'</i> - DDT99		
	108 110		
		97	
	102 104		
			98
	55 56		
			98
	20		
		98	
	143 144		
<i>trans</i> -	<i>trans</i> -		98
	104 105		
<i>cis</i> -	<i>cis</i> -		98
	106 107		
		95	
	73 76		
			98
	177 179		
		98	
	98		
			98
	146		



- -
 40 mL
 40
 mL
 kg
 20.0
 5.00 20 mL
 5.00 20 mL
 100 mL cm
 50 mL
 40 30 mL
 10 100 mL 300 mL
 - 100 mL
 300 mL - 50 mL
 -
 15
 20 mL
 -
 - 40
 10 mL

a BHC DDT

9.00 100 540 mL
 360 mL 500 mL 100 mL
 mL cm
 1,000 mL 50 mL
 30 - 100 mL
 - 300 mL

- 100 mL -
15
- 20 mL
40 -
mL -

b

15 mm 300 mm
10 -
- 17 200 mL
40 -
mL -
mL

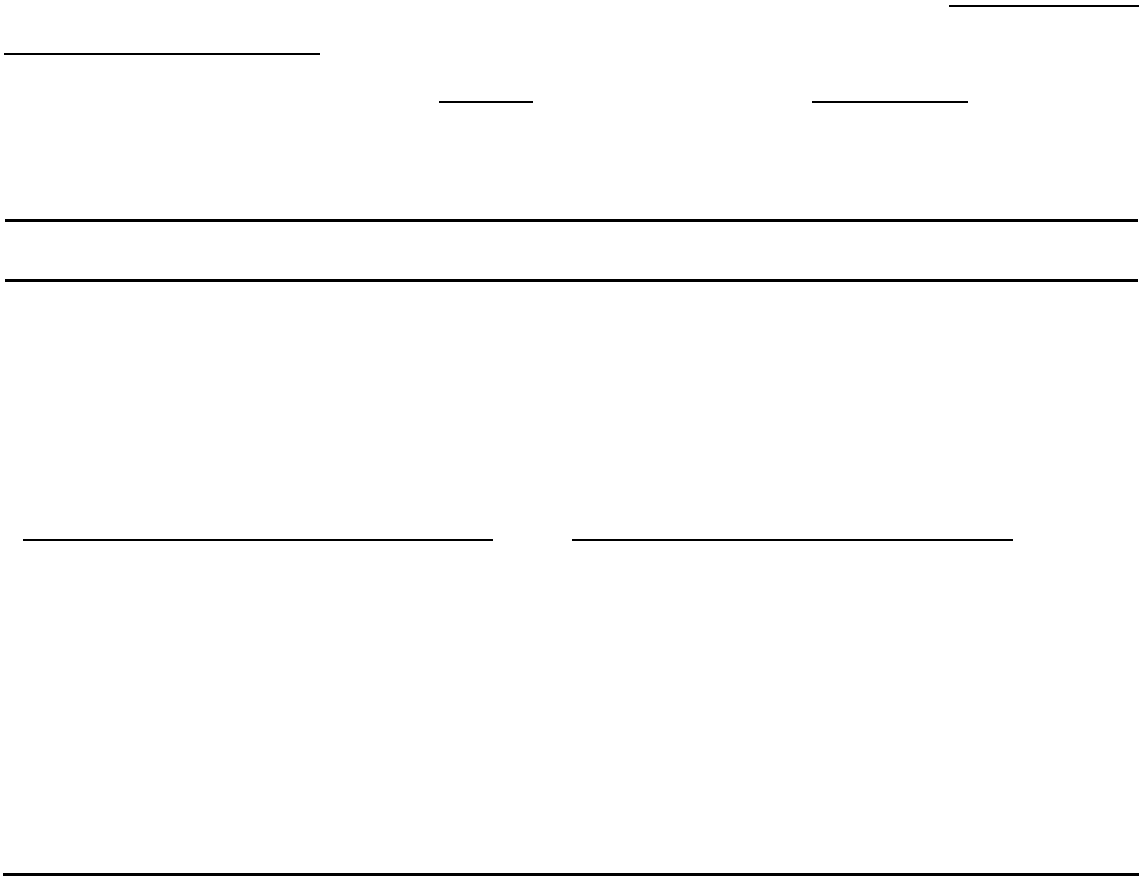
1
0.25 mm 10 30 m
0.25 μ m
50 25 175
10 300
230
300
10
0.25 mm 10 30 m

___BHC -BHC -BHC -BHC -BHC

___DDT *pp'*-DDD *pp'*-DDE *pp'*-DDT *op'*-DDT

trans-

cis-



,
mL 400 mL
98
81 83
97
187 190 0.027kPa
98
96
60 80
98
98 101

99

69 71

11 12

13 15

98

98

108

0.047kPa

92

97

34 39

420μ m

20 mL

100 mL

10.0

cm

50 mL

40

30 mL

10

100 mL

100 mL

300 mL

-

300 mL

-

50 mL

-

15

-

20 mL

40

-

-

30 mL

100 mL

-

30 mL

-

-

30 mL

40

-

mL

kg

20.0
5.00 20 mL
100 mL cm
50 mL
40 30 mL
10 100 mL 300 mL
- 100 mL
300 mL - 50 mL
-
15
- 20 mL
40 mL -
5.00 20 mL 100 mL
cm
50 mL 40
30 mL
10 100 mL 300 mL
- 100 mL
300 mL - 50 mL
-
15
- 20 mL
40 -
50 mL 50 mL
cm 300 mL
25 mL

10 - 50 mL
 - 300 mL
 - 50 mL
 15 - 20 mL
 - 40 mL
 9.00 100 540 mL
 360 mL 500 mL 100 mL
 mL cm
 50 mL 1,000 mL
 20 - 100 mL
 - 300 mL
 - 100 mL -
 - 15
 - 20 mL
 40 mL -
 15 mm 300 mm
 -
 -
 50 mL mL -
 mL 150
 -
 100 mL
 40 -
 - mL

-

mL

—
—

0.25 mm 30
0.25 μ m
50 25 175
10 300
 280

20

19

—
—

—
—

—

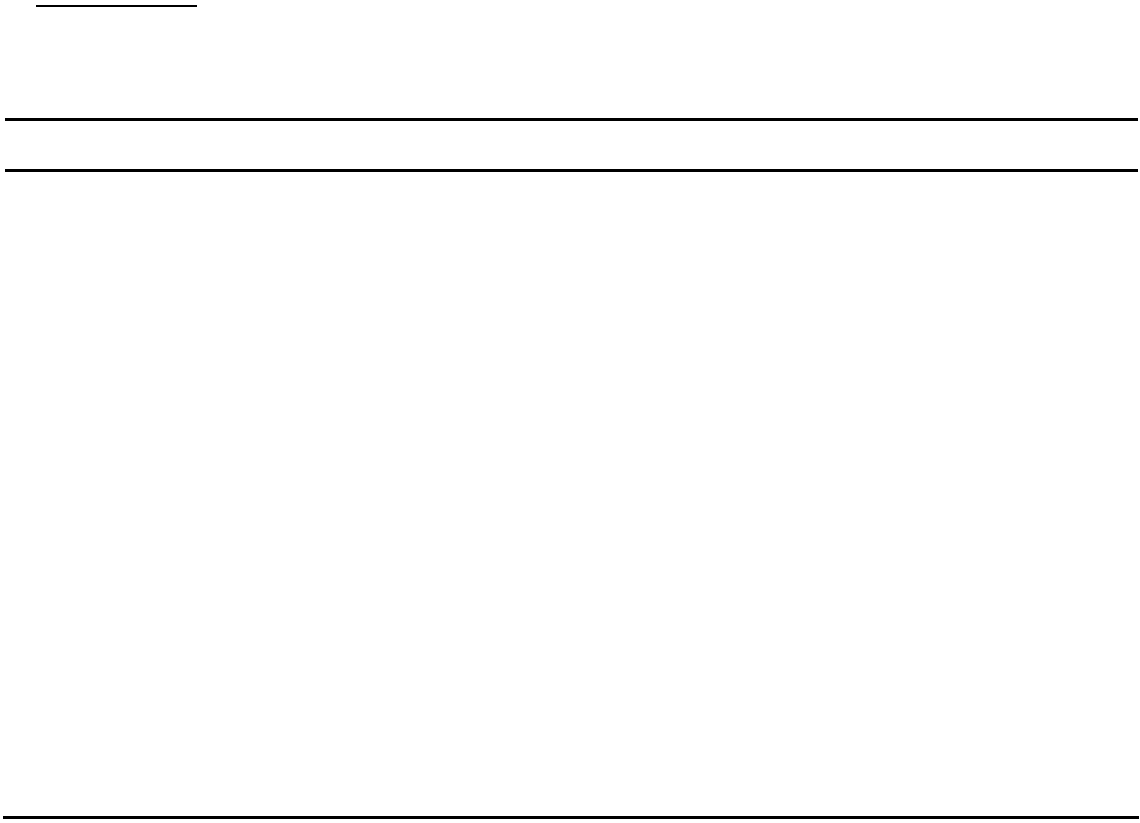
0.01 mg/kg
0.02 mg/kg
0.05 mg/kg
0.01 mg/kg
0.01 mg/kg
0.01 mg/kg
0.2 mg/kg

0.005 mg/kg

0.005 mg/kg

0.01 mg/kg

0.02 mg/kg



116 99
76 97
103 105 98
82 83

99
178 179
240°
97
99
102 103
99
133 138
99
199 200
97
180 (0.013kPa)
97
110 112
99
57 61

—
—

420μ m 10.0
20 mL
100 mL cm
50 mL
40 30 mL
10 100 mL 300 mL
- 100 mL
300 mL - 50 mL
-
15
- 20 mL
40 -
- 30 mL 100 mL -

30 mL
 - -
 30 mL
 40
 - mL

 _____ kg
 20.0
 5.00 20 mL
 _____ 5.00 20 mL

 100 mL cm
 50 mL
 40 30 mL
 10 100 mL 300 mL
 - 100 mL
 -
 300 mL 50 mL
 -
 15
 - 20 mL
 40 - mL

 9.00 100 540 mL
 360 mL 500 mL mL

 1,000 mL 50 mL
 100 - 100 mL
 - 300 mL
 - 100 mL -

- 20 mL

40

-

-

mL

15 mm

300 mm

10

-

-

-

-

19

100 mL

-

100 mL

40

-

mL

0.25 mm

30

0.25 μ m

100

30

250

300

250

280

0.01 mg/kg

0.01 mg/kg

0.005 mg/kg

0.01 mg/kg

0.01 mg/kg

0.02 mg/kg

0.005 mg/kg

0.01 mg/kg

0.005 mg/kg

0.01 mg/kg

0.01 mg/kg

0.01 mg/kg

GC/MS

GC/MS

0.5 mol/L p 7.0 K₂HPO₄ 52.7
 KH₂PO₄ 30.2 500 mL mol/L
 mol/L p 7.0 L

10.0 20 mL 15
 50 mL
 20 mL

20 mL 100 mL
10 10 0.5 mol/L p 7.0 20 mL

 1,000 mg 10 mL

mL

 40
 mL

20 mL 20.0 5.00
 15
 50 mL
 20 mL

20 mL 100 mL
20 mL 10 0.5 mol/L p 7.0 20 mL

 40
 mL

mg / 500 mg/500
10 mL
20 mL 40 mL 10 mL
40 mL mL mL
-

μ L GC/MS

μ L GC/MS

GC/MS

GC/MS

- 0.25 mm 30 0.25 μ m
50 25 / 125 10 / 300 10
250

EI 70 eV

m/z

ng

10

GC/MS

GC/MS/MS

10

<u>BHC</u>	<u>BHC</u> _____
<u>DDT</u>	<u>BHC</u> _____
<u>XMC</u>	
_____	_____
_____	_____
_____	<u>BHC</u> _____
_____	<u>EPN</u> _____
_____	_____
_____	<u>EPN</u> _____
_____	_____
_____	<u>BHC</u> _____
_____	<u>EPN</u> _____
_____	_____
_____	<u>BHC</u> _____
_____	_____
_____	_____
_____	_____
_____	<u>EPN</u> _____
_____	<u>EPN</u> _____
_____	_____

	BHC
_____	_____
_____	_____
_____	BHC
_____	EPN
_____	EPN
_____	BHC
_____	_____
_____	EPN
_____	_____
_____	_____
_____	EPN
_____	_____
_____	EPN
_____	EPN
_____	_____
_____	BHC
_____	_____
_____	_____
_____	EPN
_____	_____
_____	EPN
_____	_____
_____	EPN
_____	_____
_____	EPN

EPN

11

Fillion, J. J.AOAC Int 83 698 713 2000

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