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(20 (20 174
(20 21 175) 26
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0306017

(TOC)
(TOC) 15 TOC 15
10ng/L
5ng/L 16 18
10ng/L TOC 3 4ng/L
3ng/L 3ng/L
TOC
0.5ng/L

TOC

0.3ng/L

0.2ng/L

15
0.1ng/L

16 18

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0.1ng/L

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0.1ng/L

0.2ng/L

0.1ng/L

1010001

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0209001

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1010001

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1, 2-	7
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1, 1, 2-	7
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(2-)	7
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13	13
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16	17
17 ()	18
18	18
19	19
20 1, 1, 1-	21
21 -t-	21
22 ()	21
23 ()	21
24	22
25	22
26 pH	23
27 ()	23
28	25
<hr/> 29 1, 1-	26
<hr/> 30	26
	<u>28</u>
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15	13
16	17
17 ()	18
18	18
19	19
20 1, 1, 1-	21
21 -t-	21
22 ()	21
23 ()	21
24	22
25	22
26 pH	23
27 ()	23
28	25
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15 261 (21
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17 75) 15 17 2 318 (

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15 261 (19
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17 75) 15 17 2 318 (

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1, 1, 2-

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29 1, 1- —————

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1, 2-

————— $\frac{1, 2-}{1, 1, 2-}$ —————

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(
0.01ng/L
5ml 2μ l

0.01ng/L
)
0.0001

	((m/z))
1, 2-	62 49 64
1, 1, 2-	97 83 85
	91 92
1, 1, 1-	97 99 61
- t-	73 57
<u>1, 1-</u>	<u>61 96 98</u>
	96 70
4-	95 174 176

1ml

10ml
5ml 2μ l

(
0.01ng/L
5ml 2μ l

0.01ng/L
)
0.0001

	((m/z))
1, 2-	62 49 64
<u>- 1, 2-</u>	<u>61 96 98</u>
1, 1, 2-	97 83 85
	91 92
1, 1, 1-	97 99 61
- t-	73 57
	96 70
4-	95 174 176

1ml

10ml
5ml 2μ l

1, 1, 1-
 1, 2-
 - t -
 1, 1, 2-
 1, 1-
 (1)
 (2) (1+10)
 (3)
 (4)
 (5) (3)
 (6) 15 (5)
 (7) 15 (6)
 1ml 4 0.125
 ng 0.0125ng
 (7)
 (8) (6)
 (7) 1ml 0.5ng
 15 (1) (9)
 14
 (1)
 10ml 3g ()
 0.01ng/L 0.0001 0.01ng/L
) 0.70 0.85
 10ml 2μl
 30

2-
 1, 2-
 1, 1, 1-
 - 1, 2-
 - t -
 1, 1,
 (1)
 (2) (1+10)
 (3)
 (4)
 (5) (3)
 (6) 15 (5)
 (7) 15 (6)
 1ml 4 0.125
 ng 0.0125ng
 (7)
 (8) (6)
 (7) 1ml 0.5ng
 15 (1) (9)
 14
 (1)
 10ml 3g ()
 0.01ng/L 0.0001 0.01ng/L
) 0.70 0.85
 10ml 2μl
 30

(2)

(1)

1m

10m

(1)

10m

2μ l

(1) (2)

(2)

(1)

1m

10m

(1)

10m

2μ l

(1) (2)

10

10

1		0.015ng/L		10 10 10
2		0.002ng/L ()		10 10
3		0.01ng/L()		10 10 10
4		0.05ng/L ()		10
5	1, 2-	0.004ng/L		20 20
6	—	—	—	—
7	1, 1, 2-	0.006ng/L		20 20
8		0.2ng/L		20 20
9	(2-)	0.1ng/L		20
10		0.6ng/L		10 10
11				
12		0.6ng/L		10 10
13		<u>0.01ng/L ()</u>		20
14		<u>0.02ng/L ()</u>		20
15				
16		1ng/L	-P-	10 10 10 10 10
17		10ng/L 100ng/L		10 10 10 10
18		0.01ng/L		10 10 10

10

10

1		0.015ng/L		10 10 10
2		0.002ng/L ()		10 10
3		0.01ng/L()		10 10 10
4		0.05ng/L ()		10
5	1, 2-	0.004ng/L		20 20
6	— - 1, 2- —	<u>0.04ng/L</u>	=====	<u>20</u> <u>20</u>
7	1, 1, 2-	0.006ng/L		20 20
8		0.2ng/L		20 20
9	(2-)	0.1ng/L		20
10		0.6ng/L		10 10
11				
12		0.6ng/L		10 10
13		<u>0.04ng/L ()</u>		20
14		<u>0.03ng/L ()</u>		20
15				
16		1ng/L	-P-	10 10 10 10 10
17		10ng/L 100ng/L		10 10 10 10
18		0.01ng/L		10 10 10

19		20ng/L		10
20	1, 1, 1-	0.3ng/L		20 20
21	- t-	0.02ng/L		20 20
22		3ng/L		10
23				
24		30ng/L 200ng/L		
25				10 10 10 10 10 10
26	pH	7.5		
27				
28		1ml () 2,000		
<u>29</u>	<u>1, 1-</u>	<u>0.1ng/L</u>	<u> </u> <u> </u>	<u>20%</u> <u>20%</u>
<u>30</u>	<u> </u>	<u> </u> <u>0.1ng/L</u>	<u> </u> <u> </u> <u> </u>	<u>10%</u> <u>10%</u> <u>10%</u>

19		20ng/L		10
20	1, 1, 1-	0.3ng/L		20 20
21	- t-	0.02ng/L		20 20
22		3ng/L		10
23				
24		30ng/L 200ng/L		
25				10 10 10 10 10 10
26	pH	7.5		
27				
28		1ml () 2,000		

		(ng/L)		(ng/L)	
1		0.02	()	0.0002	20
2	(CAT)	0.003		0.00001	20
3		0.02		0.00002	20
4	1, 3 (DD)	0.002		0.0001 0.0001	20 20
5		0.008		0.00001	20
6		0.005		0.00002	20
7	(MEP)	0.003		0.00001	20
8	(IPI)	0.04		0.00001	20
9	(TPN)	0.05		0.00001	20
10		0.05		0.00001	20
11	(DDMP)	0.008		0.00005	20
12	(BPMO)	0.03		0.00001	20
13	(CNP)	0.0001		0.0001	20
14	CNP			0.0001	20
15	(IBP)	0.008		0.00005	20
16	EPN	0.004		0.00005	20
17		0.2	() ()	0.00001 0.00005 0.000002	20 20 20
18	()	0.005	()	0.00005 0.000005	20 20
19	2, 4 (2, 4 D)	0.03	()	0.00001 0.00005	20 20
20		0.006	()	0.00001 0.00002	20 20
21		0.08	()	0.0008	20
22		0.001		0.00003	20
23		0.003		0.00005	20
24	(IEP)	0.03		0.0002	20
25		0.002		0.00005	20
26		0.3	()	0.00002 0.001 0.0001	20 20 20
27	()	0.004		0.00001	20
28		0.04	() ()	0.00005 0.0004	20 20
29		0.3		0.0001	20
30		0.05		0.00002	20
31		0.2		0.00001	20
32		0.2		0.00001	20
33		0.04		0.0001	20
34		0.05		0.00005	20

		(ng/L)		(ng/L)	
1		0.02	()	0.0002	20
2	(CAT)	0.003		0.00001	20
3		0.02		0.00002	20
4	1, 3 (DD)	0.002		0.0001 0.0001	20 20
5		0.008		0.00001	20
6		0.005		0.00002	20
7	(MEP)	0.003		0.00001	20
8	(IPI)	0.04		0.00001	20
9	(TPN)	0.05		0.00001	20
10		0.05		0.00001	20
11	(DDMP)	0.008		0.00005	20
12	(BPMO)	0.03		0.00001	20
13	(CNP)	0.0001		0.0001	20
14	CNP			0.0001	20
15	(IBP)	0.008		0.00005	20
16	EPN	0.006		0.00005	20
17		0.2	() ()	0.00001 0.00005 0.000002	20 20 20
18	()	0.005	()	0.00005 0.000005	20 20
19	2, 4 (2, 4 D)	0.03	()	0.00001 0.00005	20 20
20		0.006	()	0.00001 0.00002	20 20
21		0.08	()	0.0008	20
22		0.001		0.00003	20
23		0.003		0.00005	20
24	(IEP)	0.03		0.0002	20
25		0.002		0.00005	20
26		0.3	()	0.00002 0.001 0.0001	20 20 20
27	()	0.004		0.00001	20
28		0.04	() ()	0.00005 0.0004	20 20
29		0.3		0.0001	20
30		0.05		0.00002	20
31		0.2		0.00001	20
32		0.2		0.00001	20
33		0.04		0.0001	20
34		0.05		0.00005	20

		(ng/L)		(ng/L)	
35		0.1		0.00001	20
36		0.2	() ()	0.001 0.0001 0.0005	20 20 20
37		0.008		0.00001	20
38	(MBPM)	0.02		0.00001	20
39		0.03		0.00001	20
40		0.02		0.00002	20
41		0.01		0.0001	20
42	(SAP)	0.1	() ()	0.00001 0.00001	20 20
43	()	0.08		0.00001	20
44		0.1		0.00001	20
45	(MPP)	0.005	()	0.00005 0.00002	20 20
46		0.03		0.00005	20
47		0.01		0.00002	20
48	(NAC)	0.05	()	0.0005 0.0001 0.00002	20 20 20
49	(, EDP)	0.006		0.00005	20
50		0.04		0.00001	20
51		0.1		0.00001	20
52		0.009		0.00001	20
53		0.04		0.00001	20
54	(MPC)	0.01		0.00005	20
55		0.3	()	0.002 0.00005	20 20
56		0.2		0.00002	20
57	(DMP)	0.004		0.00001	20
58		0.04	() ()	0.00002 0.00005	20 20
59		0.04		0.0001	20
60		0.005		0.00001	20
61		0.09		0.0001	20
62		0.003		0.00005	20
63		0.01		0.00005	20
64		0.08	()	0.001	20
65	(DBN)	0.01		0.00001	20
66		0.05		0.00005	20
67		0.005		0.001	20
68	(DCM)	0.02	() ()	0.0001 0.0001	20 20
69	()	0.01		0.00005	20

		(ng/L)		(ng/L)	
35		0.1		0.00001	20
36		0.2	() ()	0.001 0.0001 0.0005	20 20 20
37		0.008		0.00001	20
38	(MBPM)	0.02		0.00001	20
39		0.03		0.00001	20
40		0.02		0.00002	20
41		0.01		0.0001	20
42	(SAP)	0.1	() ()	0.00001 0.00001	20 20
43	()	0.08		0.00001	20
44		0.1		0.00001	20
45	(MPP)	0.005	()	0.00005 0.00002	20 20
46		0.03		0.00005	20
47		0.01		0.00002	20
48	(NAC)	0.05	()	0.0005 0.0001 0.00002	20 20 20
49	(, EDP)	0.006		0.00005	20
50		0.04		0.00001	20
51		0.1		0.00001	20
52		0.009		0.00001	20
53		0.04		0.00001	20
54	(MPC)	0.01		0.00005	20
55		0.3	()	0.002 0.00005	20 20
56		0.2		0.00002	20
57	(DMP)	0.004		0.00001	20
58		0.04	() ()	0.00002 0.00005	20 20
59		0.04		0.0001	20
60		0.005		0.00001	20
61		0.09		0.0001	20
62		0.003		0.00005	20
63		0.01		0.00005	20
64		0.08	()	0.001	20
65	(DBN)	0.01		0.00001	20
66		0.05		0.00005	20
67		0.005		0.001	20
68	(DCM)	0.02	() ()	0.0001 0.0001	20 20
69	()	0.01		0.00005	20

		(ng/L)		(ng/L)	
70		0.08		0.00005	20
71	(MPP)	0.001	()	0.00001 0.00002	20 20
72		2		0.0005 0.002	20 20
73	()	0.05		0.00005	20
74		0.03	()	0.0001 0.00002	20 20
75		0.02	()	0.00002	20
76		0.04	()	0.000004	20
77		0.03		0.00002	20
78		0.003		0.00002	20
79	(PAP)	0.004		0.00004	20
80		0.02		0.00001	20
81		0.004		0.00004	20
82		0.05	()	0.0001	20
83		0.01		0.0001	20
84		0.8	() ()	0.00005 0.00005	20 20
85		0.2		0.0001	20
86		0.4	() ()	0.00001 0.00001	20 20
87		0.08	()	0.000002	20
88		0.0009		0.00005	20
89		0.02		0.00001	20
90		0.5	()	0.00002	20
91		0.006		0.005 0.005	20 20
92		2	()	0.02	20
93		0.03		0.002	20
94		0.3	() ()	0.00005 0.00005	20 20
95		0.03	() ()	0.000002 0.000002	20 20
96		0.08	()	0.00005	20
97		0.05		0.0002	20
98		0.3	() ()	0.002 0.00002 0.00002	20 20 20
99		0.2		0.00001	20
100		0.06		0.00001	20
101		0.008		0.00001	20
102		0.0005	()	0.000005	20

)

		(ng/L)		(ng/L)	
70		0.08		0.00005	20
71	(MPP)	0.001	()	0.00001 0.00002	20 20
72		2		0.0005 0.002	20 20
73	()	0.05		0.00005	20
74		0.03	()	0.0001 0.00002	20 20
75		0.02	()	0.00002	20
76		0.04	()	0.000004	20
77		0.03		0.00002	20
78		0.003		0.00002	20
79	(PAP)	0.004		0.00004	20
80		0.02		0.00001	20
81		0.004		0.00004	20
82		0.05	()	0.0001	20
83		0.01		0.0001	20
84		0.8	() ()	0.00005 0.00005	20 20
85		0.2		0.0001	20
86		0.4	() ()	0.00001 0.00001	20 20
87		0.08	()	0.000002	20
88		0.0009		0.00005	20
89		0.02		0.00001	20
90		0.5	()	0.00002	20
91		0.006		0.005 0.005	20 20
92		2	()	0.02	20
93		0.03		0.002	20
94		0.3	() ()	0.00005 0.00005	20 20
95		0.03	() ()	0.000002 0.000002	20 20
96		0.08	()	0.00005	20
97		0.05		0.0002	20
98		0.3	() ()	0.002 0.00002 0.00002	20 20 20
99		0.2		0.00001	20
100		0.06		0.00001	20
101		0.008		0.00001	20
102		0.0005	()	0.000005	20

)

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10

1		Inh 100		—
2				—
3		0.01ng/L		10 10 10 10
4		0.0005ng/L		10
5		0.01ng/L		10 10 10 10
6		0.01ng/L		10 10 10
7		0.01ng/L		10 10 10 10
8		0.05ng/L		10 10 10 10
9		0.01ng/L		10
10		10ng/L	()	10
11		0.8ng/L	()	10
12		1.0ng/L		10 10
13		0.002ng/L		20 20
14	1, 4	0.05ng/L		20 20 20
15	- 1, 2 - 1, 2	0.04ng/L		20 20
16		0.02ng/L		20 20

10
10

1		Inh 100		—
2				—
3		0.01ng/L		10 10 10 10
4		0.0005ng/L		10
5		0.01ng/L		10 10 10 10
6		0.01ng/L		10 10 10
7		0.01ng/L		10 10 10 10
8		0.05ng/L		10 10 10 10
9	<u>1)</u>	0.01ng/L		10
10		10ng/L	()	10
11		0.8ng/L	()	10
12		1.0ng/L		10 10
13		0.002ng/L		20 20
14	1, 4	0.05ng/L		20 20 20
15	1, 1-	0.02ng/L		20 20
16	- 1, 2	0.04ng/L		20 20

17	0.01ng/L		20 20
18	0.03ng/L		20 20
19	0.01ng/L		20 20
20	0.6ng/L		10
21	0.02ng/L		20
22	0.06ng/L		20 20
23	0.04ng/L		20
24	0.1ng/L		20 20
25	0.01ng/L		10
26	0.1ng/L	30 23 25 29	—
27	0.2ng/L		20
28	0.03ng/L		20 20
29	0.03ng/L		20 20
30	0.06ng/L		20
31	1.0ng/L		10 10 10 10
32	0.2ng/L		10 10 10 10
33	ng/L 0.3		10 10 10 10
34	ng/L 1.0		10 10 10 10
35	200ng/L	_____ ()	10 10 10 10 10 10

17	0.02ng/L		20 20
18	0.01ng/L		20 20
19	0.03ng/L		20 20
20	0.01ng/L		20 20
21	0.6ng/L		10
22	0.02ng/L		20
23	0.06ng/L		20 20
24	0.04ng/L		20
25	0.1ng/L		20 20
26	0.01ng/L		10
27	0.1ng/L	30 23 25 29	—
28	0.2ng/L		20
29	0.03ng/L		20 20
30	0.03ng/L		20 20
31	0.06ng/L		20
32	1.0ng/L		10 10 10 10
33	0.2ng/L		10 10 10
34	ng/L 0.3		10 10 10 10
35	ng/L 1.0		10 10 10 10
36	200ng/L	_____ ()	10 10 10 10

36		0.05ng/L		10 10 10 10
37		200ng/L	()	10 10
38	()	300ng/L	_____ ()	10 10 10 10 10
39		500ng/L		—
40		0.2ng/L		10
41		0.00001ng/L		20 20 20
42		0.00001ng/L		20 20 20
43		0.02ng/L		20
44		0.005ng/L		20
45	() ()	3ng/L		10
46	pH	5.8 8.6		— —
47				—
48				—
49		5		— 10 10
50		2		— 10 10 10 10 10 10

37		0.05ng/L		10 10 10 10
38		200ng/L	()	10 10
39	()	300ng/L	()	10 10 10 10
40		500ng/L		—
41	1)	0.2ng/L		10
42		0.00001ng/L		20 20 20
43		0.00001ng/L		20 20 20
44		0.02ng/L		20
45	1)	0.005ng/L		20
46	() ()	5ng/L		10
47	pH	5.8 8.6		— —
48				—
49				—
50		5		— 10 10
51		2		— 10 10 10 10 10 10

1) 19 31

2) 17 31 () () ()
) 5ng/L 10ng/L ()

 10 10

12 3 31

21

()

()

16 3

21 3

16 3

19 11

(12 5 4 15) 1 16

()
15 5 4 (15
101) 7
(15 261)
16 1
19 11

20 12 20
174 21 3
21 26
(21
56)

) ()
(
15, 16
17, 18, 19)

(12 5 4 15) 1 16

()
15 5 4 (15
101) 7
(15 261)
16 1

19 11
19 135
19 137
(19 386
)

) ()
(
15, 16
17, 18)

) (12 15) 1 16
 ()
 p 4)
 p 4)

()

(1)

(2)

(3) (ng/L) (ng/kg) × (ng/L) × 10

(4)

) (12 15) 1 16
 ()
 p 4)
 p 4)

()

(1)

(2)

(3) (ng/L) (ng/kg) × (ng/L) × 10

(4)

<p>_____) _____</p> <p>_____)</p> <p>(5) _____</p> <p>_____</p> <p>) _____ (p. 28)</p> <p>(p. 29)</p>	<p>_____) _____</p> <p>(5) _____</p> <p>) _____ (p. 28)</p> <p>(p. 27)</p>
---	---

	(ng/L)
	0.001
	0.00005
	0.001
	0.001
	0.001
	0.005
	0.001
	1.0
	0.1
	0.0002
1, 4	0.005
1, 2	0.0004
- 1, 2-	0.004
- 1, 2-	
	0.002
	0.001
1, 1, 2-	0.0006
	0.003
	0.001
	0.005
	0.1
	0.03
	0.1
	0.005
	0.02
	0.005
	0.0005
(())	0.3
	0.5
	0.001
	0.0015
	0.007
	0.0002
	0.07
	0.01
	0.00005
	0.6
	0.6
	0.4

0.5ng/L

(12 15)

23 3 31

	(ng/L)
	0.001
	0.00005
	0.001
	0.001
	0.001
	0.005
	0.001
	1.0
	0.1
	0.0002
1, 4	0.005
1, 2	0.0004
1, 1-	0.002
- 1, 2-	0.004
	0.002
	0.001
1, 1, 2-	0.0006
	0.003
	0.001
	0.005
	0.1
	0.03
	0.1
	0.005
	0.02
	0.005
	0.0005
(())	0.5
	0.5
	0.001
	0.0015
	0.007
	0.0002
	0.07
	0.01
	0.00005
	0.6
	0.6
	0.4

0.5ng/L

(12 15)

23 3 31

(2)

10

))

(

)

10

10

)

10

(p. 6)

(

)

10

1)

10

10

2)

(0.5μ m)

(2)

10

))

(

)

10

10

)

10

(p. 6)

(

)

10

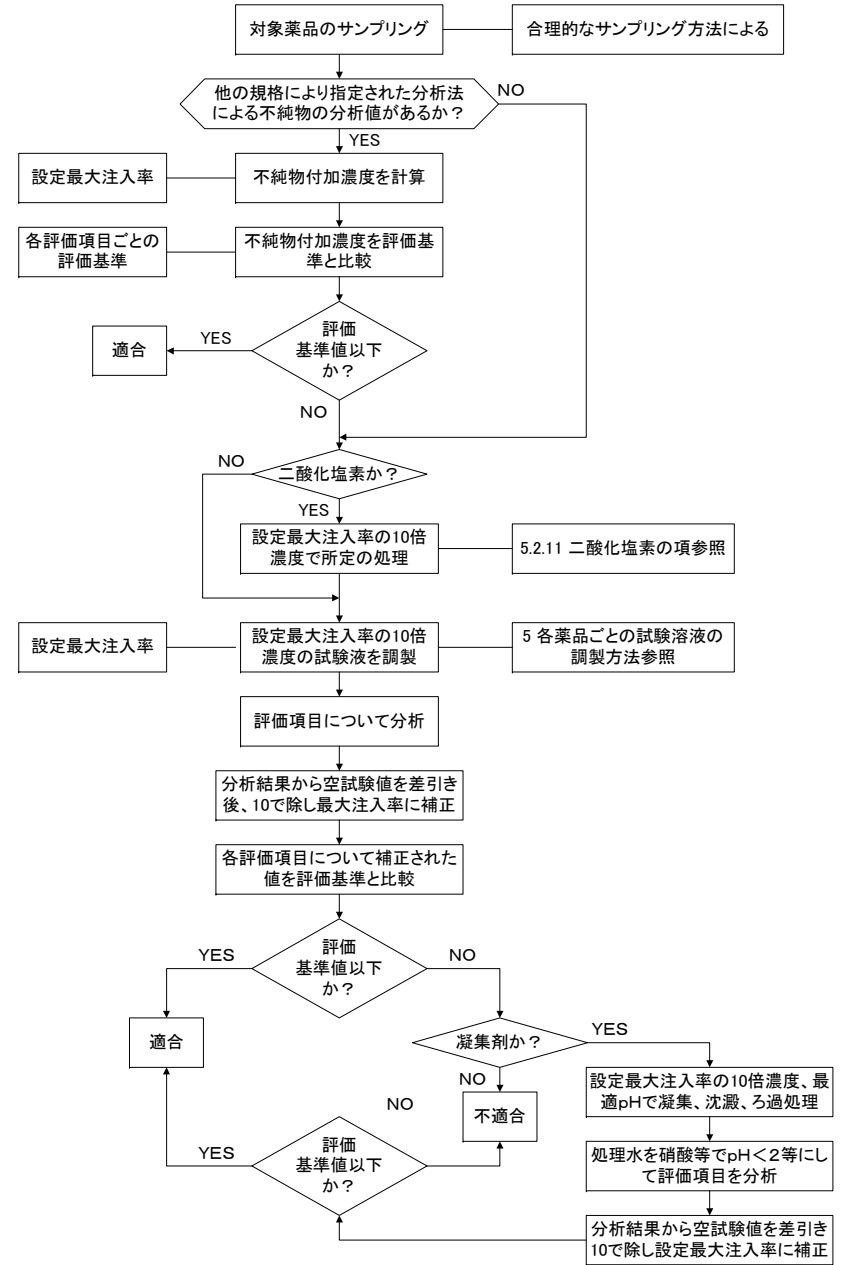
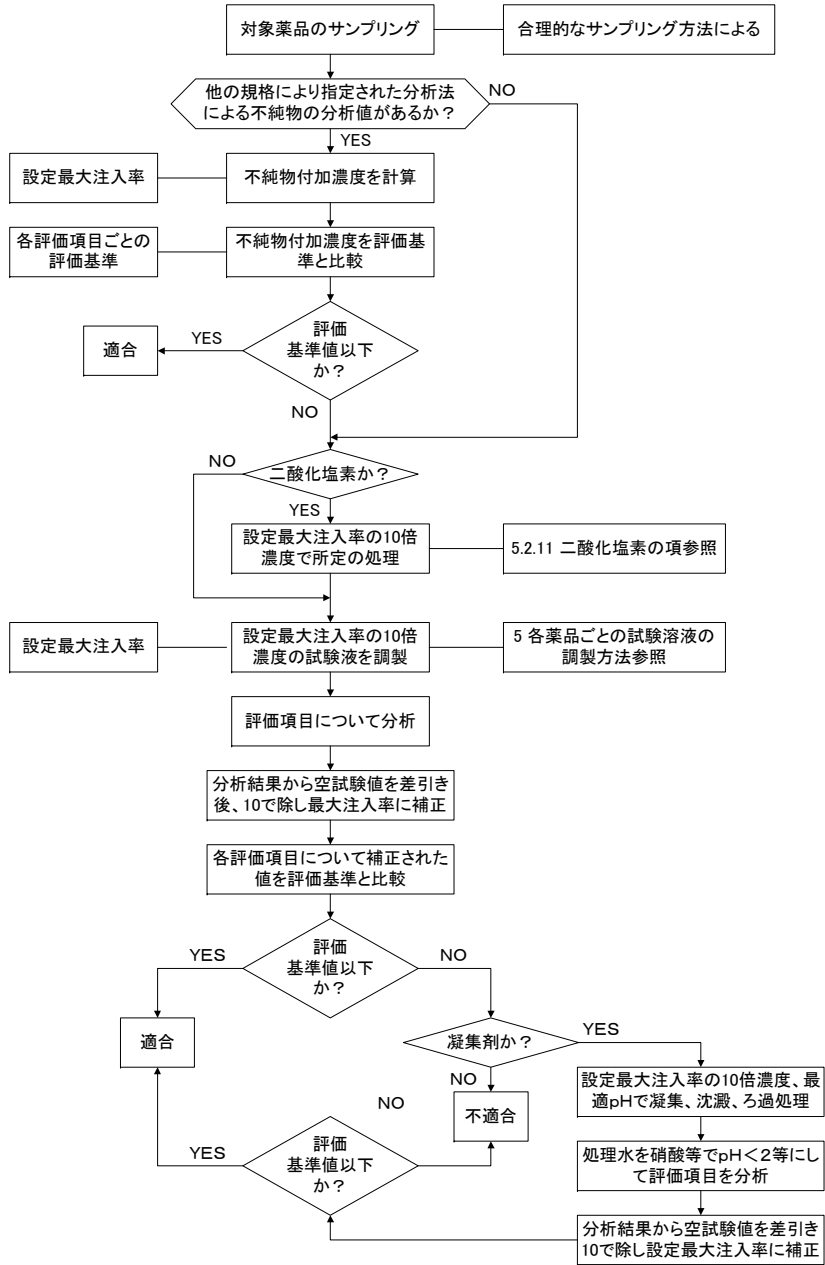
1)

10

10

2)

(0.5μ m)



5.1

(1) _____ (_____ (_____))

(2) _____ 1, 4 _____ 1, 2- _____ 1, 1- _____ -1, 2- _____ 1, 1, 2- _____

(3) _____

(4) _____

(5) _____

(6) _____

5.2

5.1

(1) _____

_____ 1, 4 _____ 1, 2- _____ 1, 1- _____ -1, 2- _____

_____ 1, 1, 2- _____

_____ (_____) _____

_____ (0.5 _____

μm _____

(2) _____

(3) _____

(4) _____

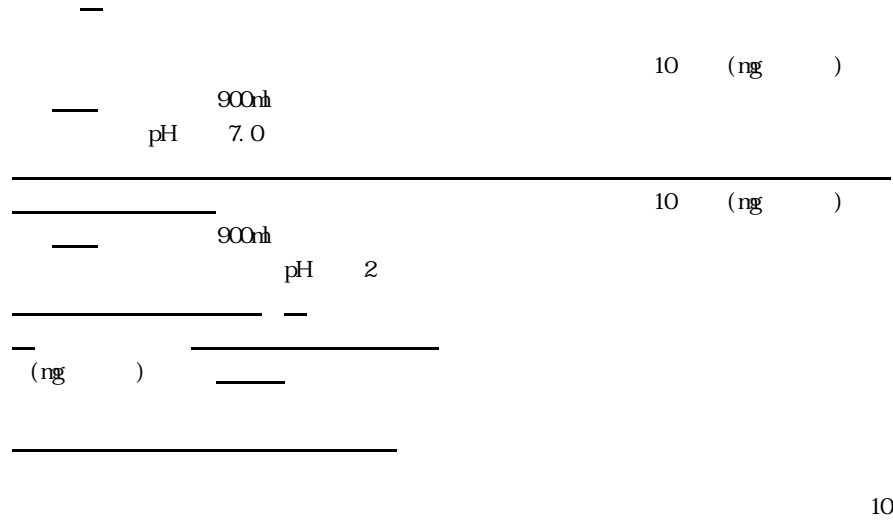
(5) _____

5.2

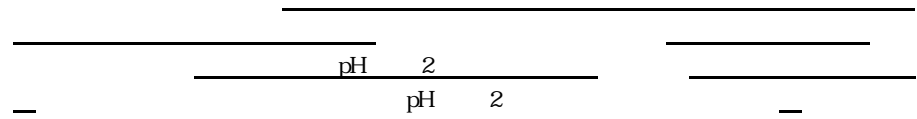
0.2 nS/nm (2 μ S/cm)

(0.5 μ m)

5.2.1



pH



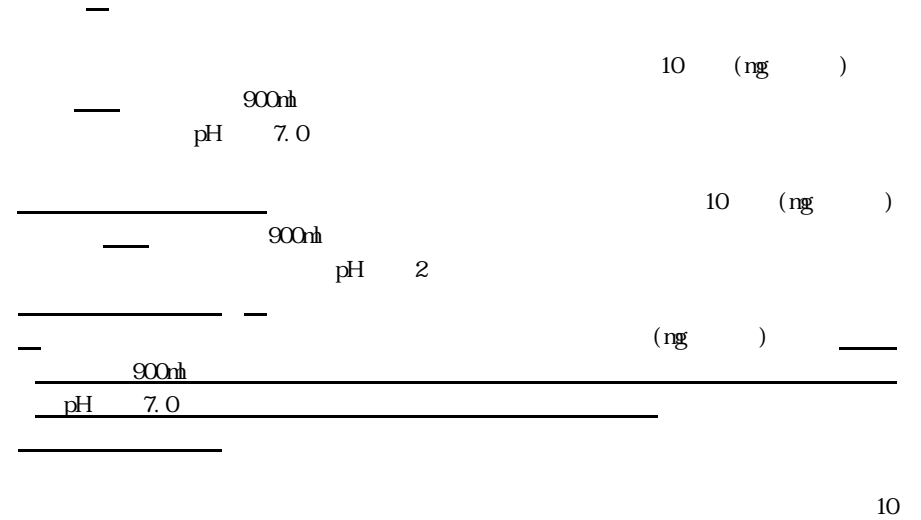
5.2.2



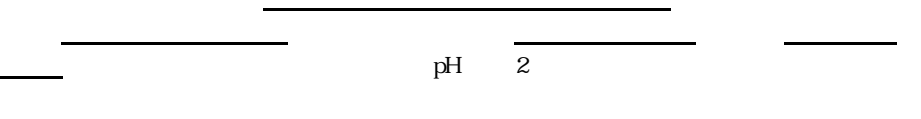
0.2 nS/nm (2 μ S/cm)

(0.5 μ m)

5.2.1

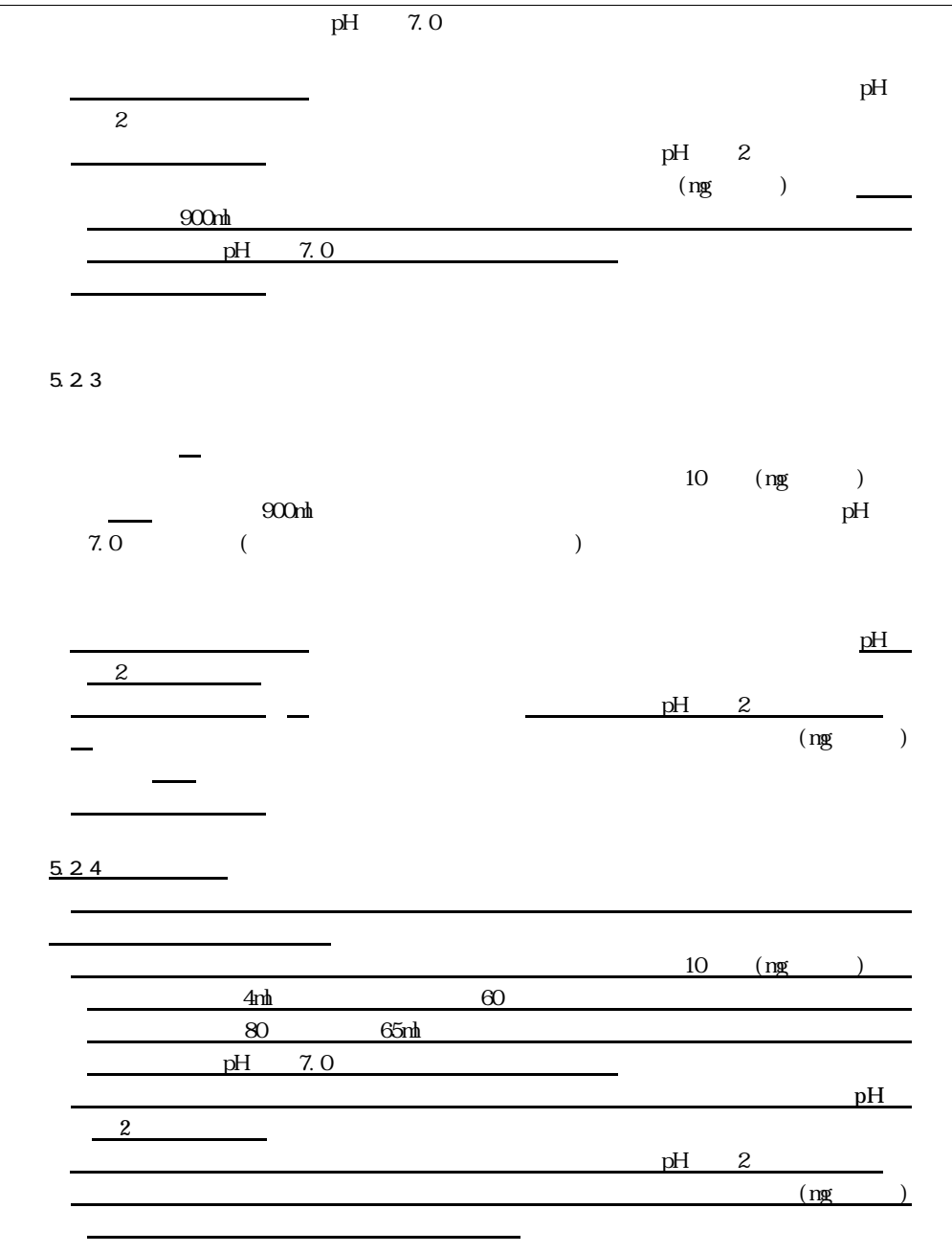
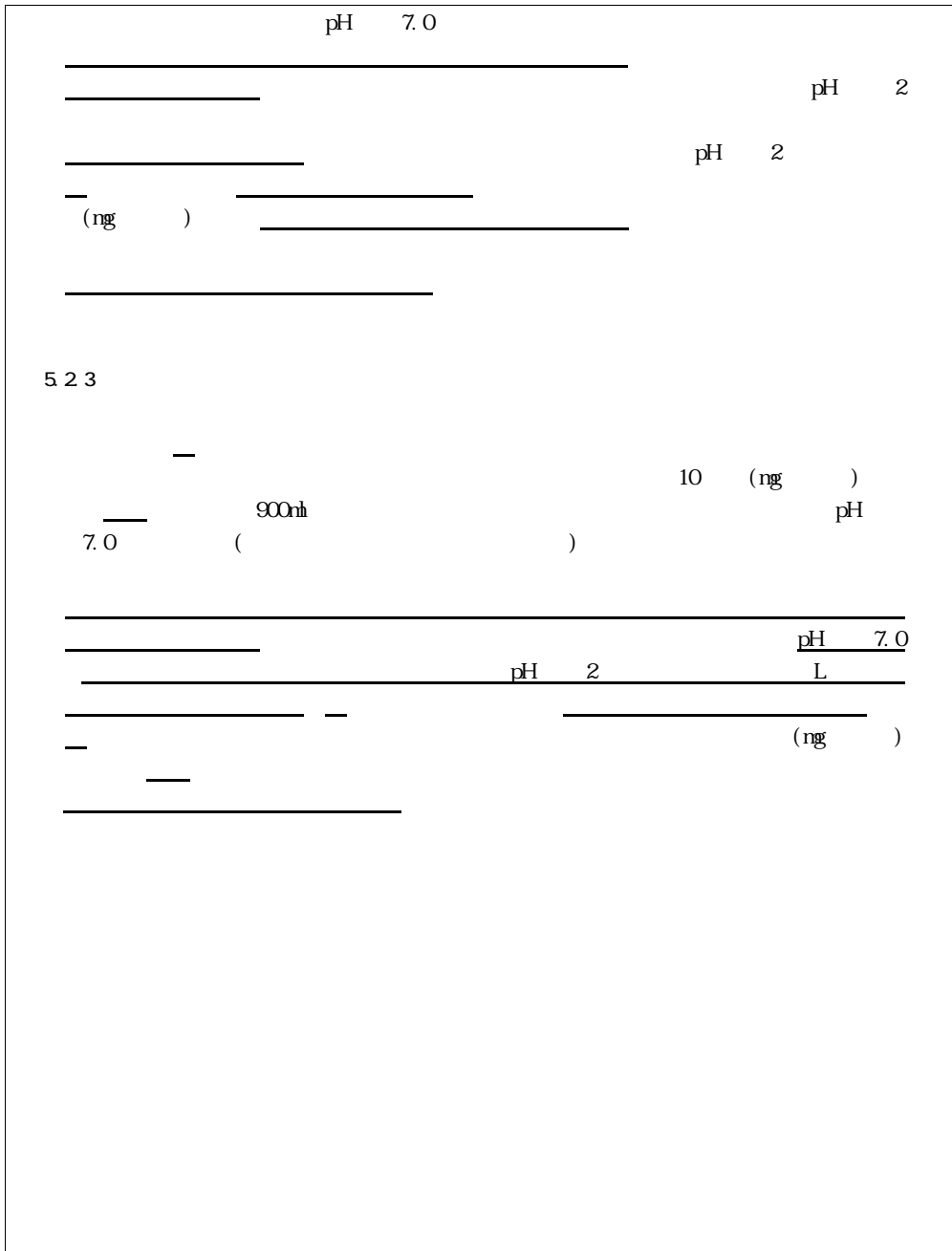


pH

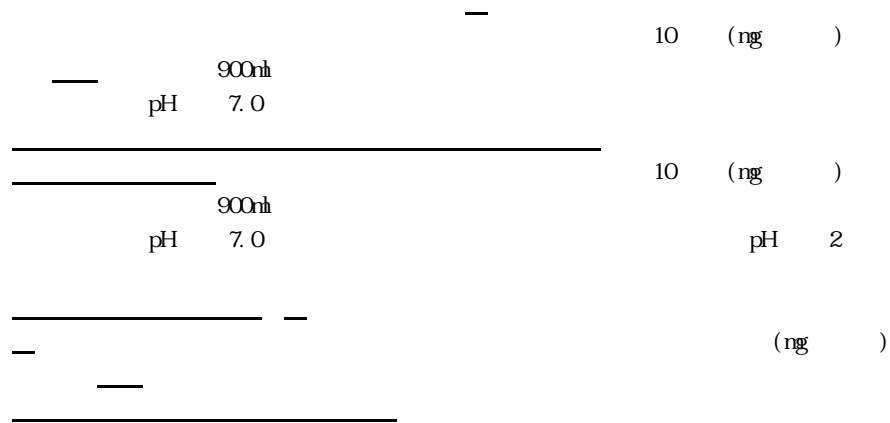


5.2.2

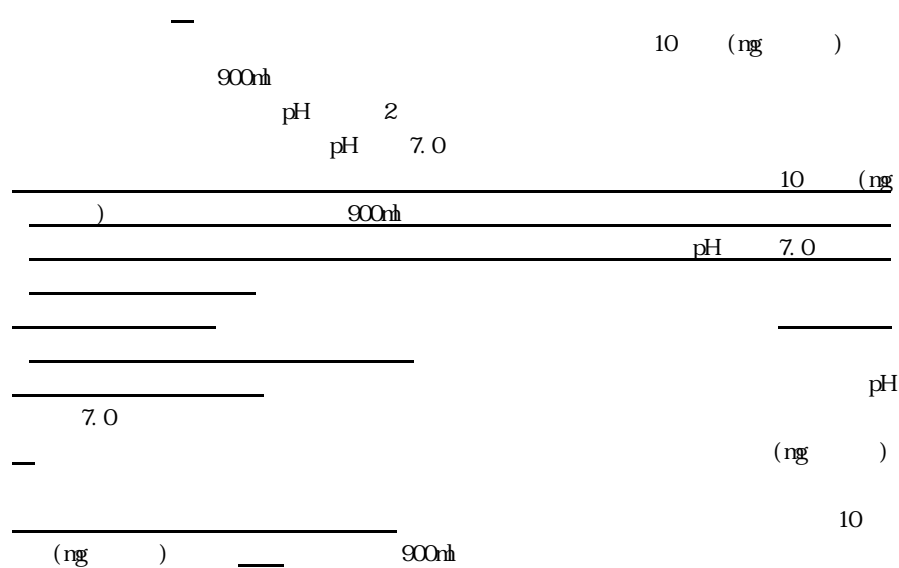




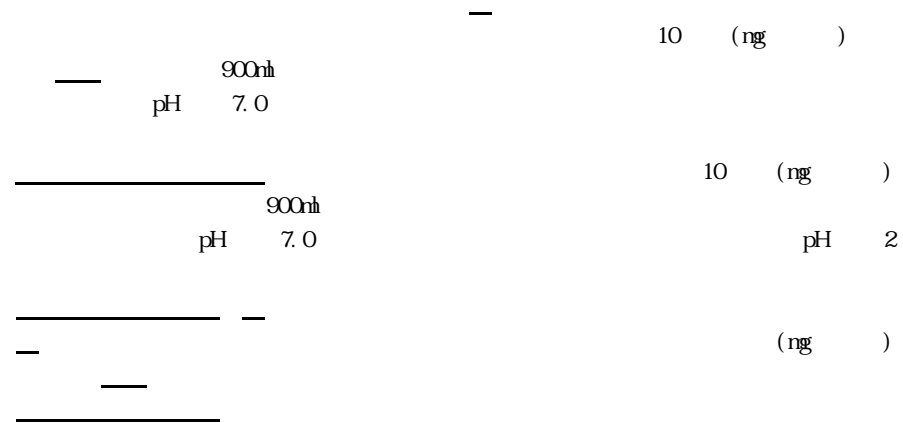
5.2.4



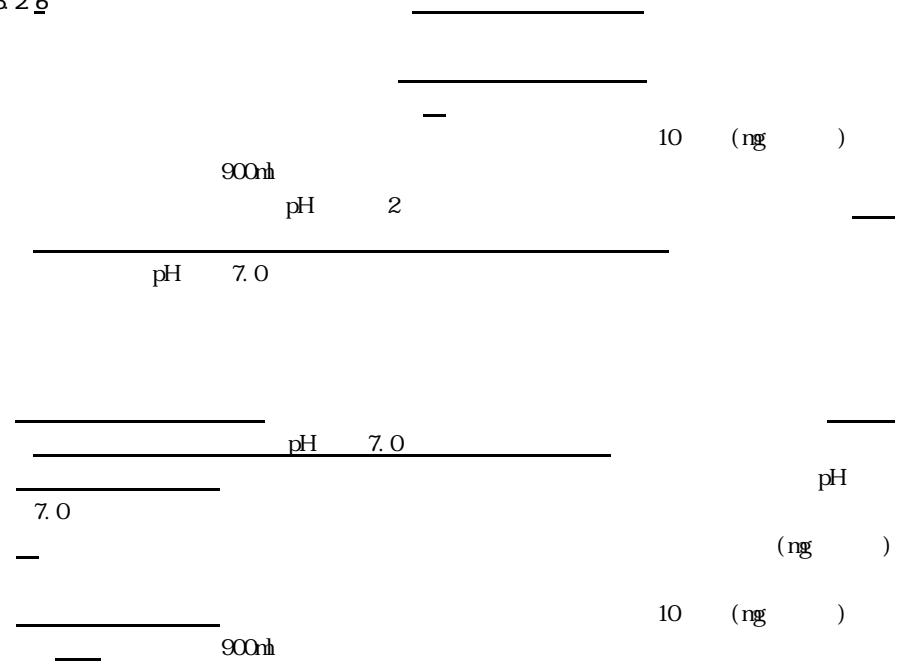
5.2.5



5.2.5



5.2.6



50ng/nh nh

5.2.6

10 (ng)

900nh

10 (ng)

900nh

pH 2

(ng)

5.2.7

0.01g

250nh

220nh

pH 2

pH 7.0

250nh

250nh

220nh

0.01g

250nh

nh

50ng/nh

5.2.7

0.01g

250nh

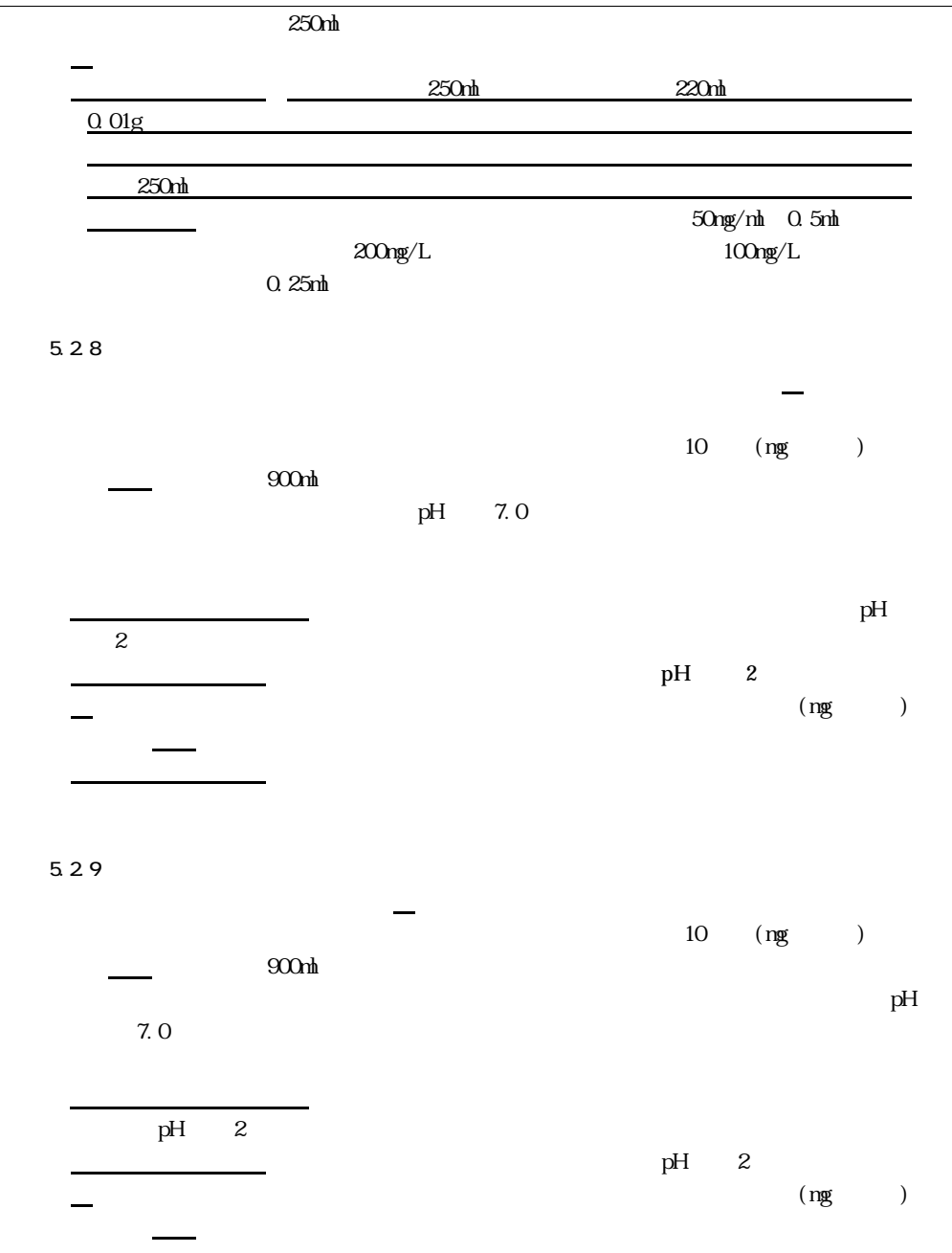
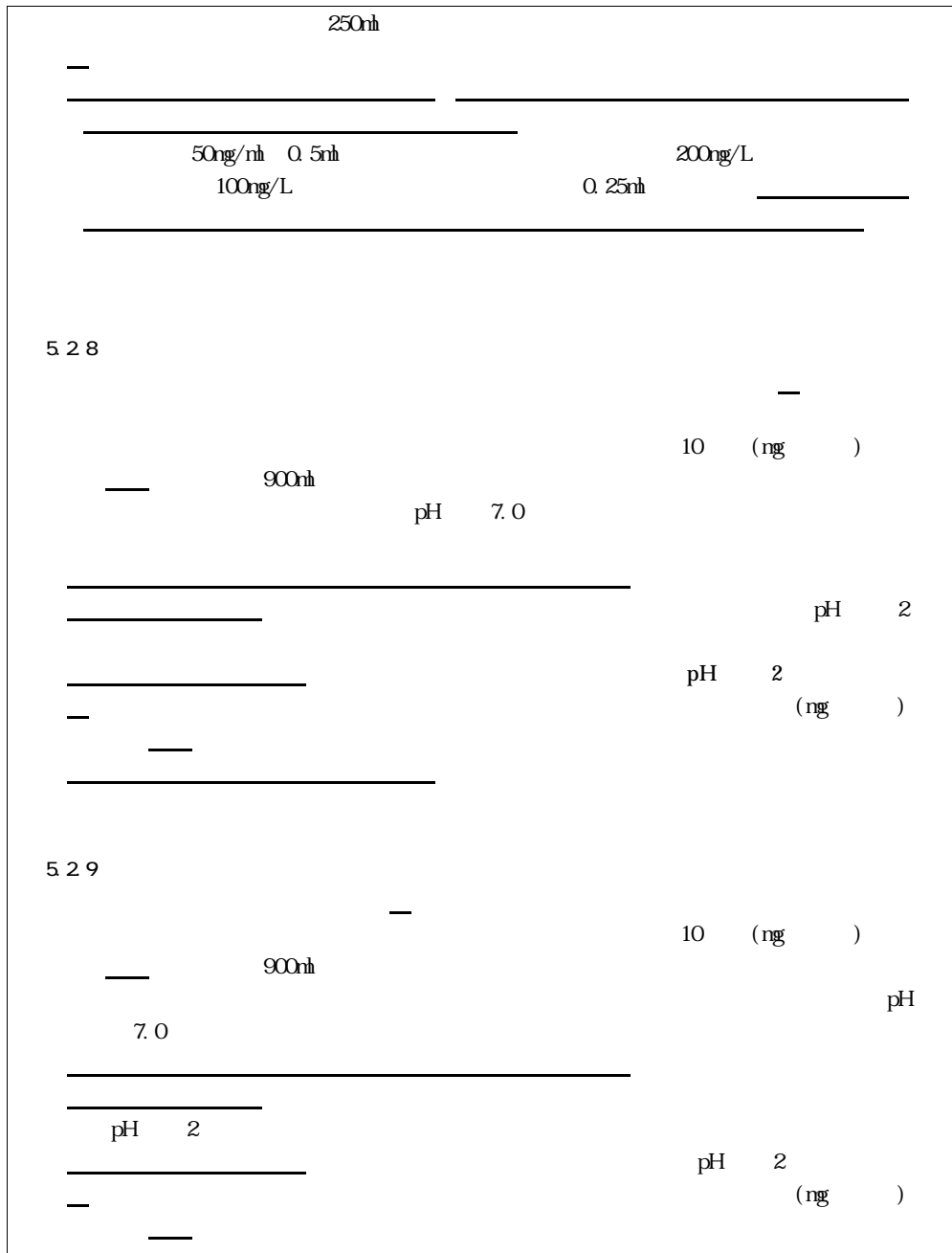
220nh

pH 2

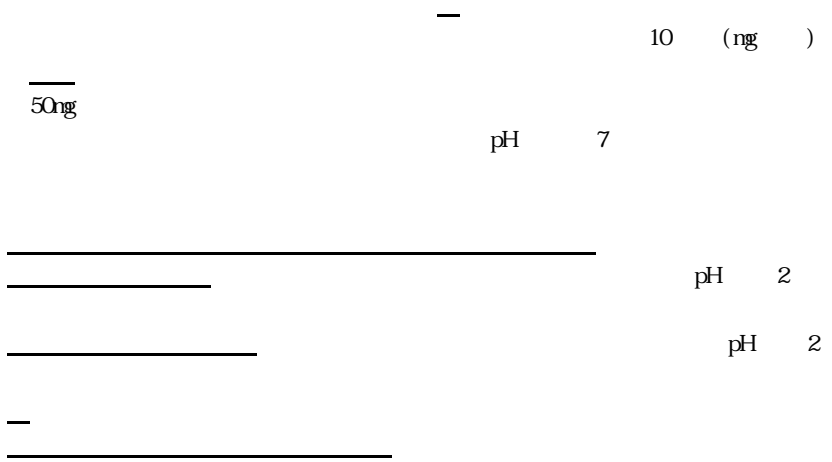
pH 7.0

250nh

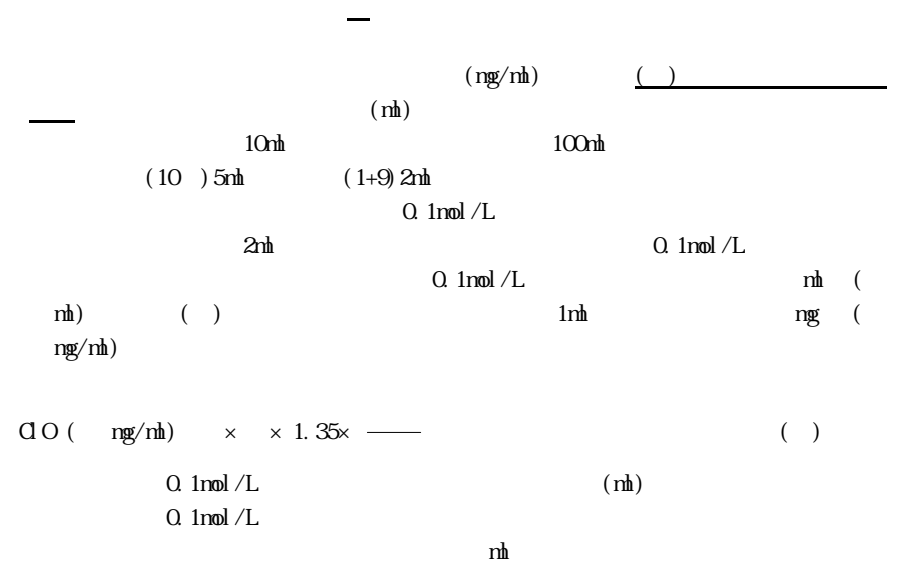
250nh



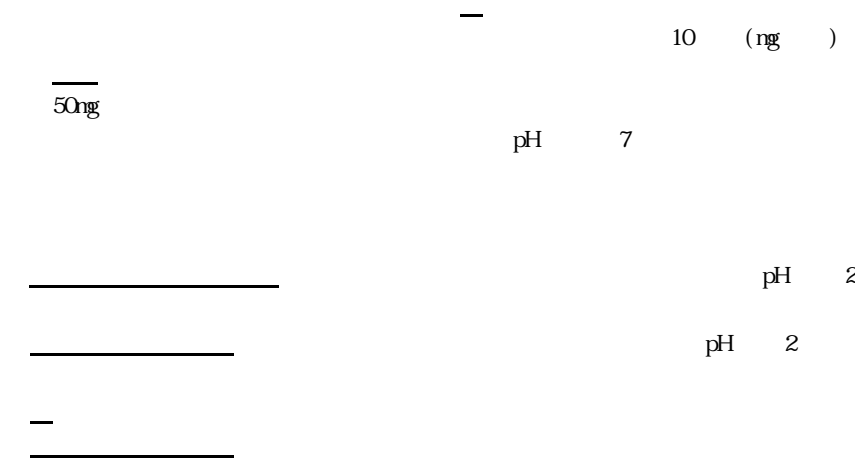
5.2.10



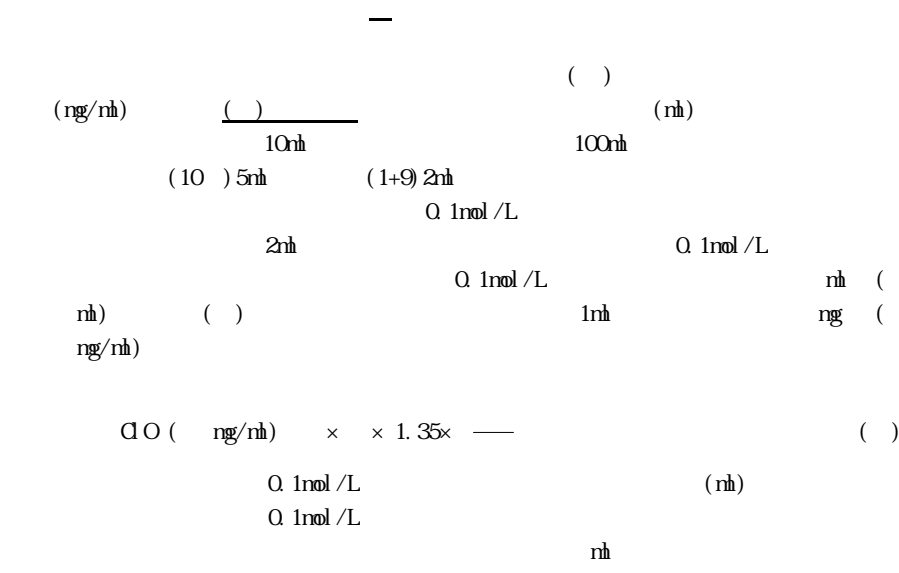
5.2.11



5.2.10



5.2.11



$$\frac{\text{_____ (nh)}}{\text{_____ (ng/nh)} \times 10} = \frac{\text{_____ (ng/L)}}{\text{_____ ()}}$$

() _____ 10
 900nh _____
 pH 7.0 _____
 _____ 1ng 0.03
 _____ 0.06ng _____
 pH 7.0 _____
 _____ pH 2 _____
 _____ () _____
 _____ () _____
 _____ 900nh _____
 pH 7.0 _____

- (1)
- (2)

pH _____
) _____
 pH _____
 (_____
) _____ pH _____

$$\frac{\text{_____ (nh)}}{\text{_____ (ng/nh)} \times 10} = \frac{\text{_____ (ng/L)}}{\text{_____ ()}}$$

() _____ 10 () _____ 900nh
 _____ pH 2 _____
 _____ pH 7.0 _____
 _____ () _____ () _____
 _____ () _____ 10 () _____
 _____ 900nh _____
 pH 7.0 _____

- (1)
- (2)

pH _____
) _____
 pH _____
 (_____
) _____ pH _____

(1) 5.2.1 5.2.6 5.2.8 5.2.10 5.2.11
 10
 —
 (2) 5.2.7 (1)
 (ng/L) (ng)
 (3) 5.2.11 —
 (1) (2) (3)

7.1

1ng 0.01

0.02g

1ng 0.01g

()

(1) 5.2.1 5.2.6 5.2.8 5.2.10 5.2.11
 10
 —
 (2) 5.2.7 (1)
 (ng/L) (ng)
 (3) 5.2.11 —
 (1) (2) (3)

7.1

()

		(15 261) 21
		(56)
1, 4		
1, 2-		(15 10 10 1010001) ()
		21 3 6 (000002)
- 1, 2-		(15)
		261)
		(21)
		56)

		(15 261) 19
		(386)
1, 4		
1, 2-		(15 10 10 1010001) () 19 11 15 1115002)
1, 1-		(15)
		261)
		(19)
		386)
- 1, 2-		

1, 1, 2-		(15 10 10 1010001) (<u>21</u> <u>3</u> <u>6</u> <u>000002</u>)
		(15 261) (<u>21</u> <u>56</u>)
(())		

1, 1, 2-		(15 10 10 1010001) (<u>19</u> <u>11</u> <u>15</u> <u>1115002</u>)
		(15 261) (<u>19</u> <u>386</u>)
(())		

		(15 10 10 1010001) (<u>0306002</u>) <u>21 3 6</u>
		7.2.1
		(15 10 10 1010001) (<u>0306002</u>) <u>21 3 6</u>
		7.2.2
		7.2.3
		7.2.4
		(15 10 10 1010001) (<u>0306002</u>) <u>21 3 6</u>
		(15 261) (<u>21</u> 56)

		(15 10 10 1010001) (<u>1115002</u>) <u>19 11 15</u>
		7.2.1
		(15 10 10 1010001) (<u>1115002</u>) <u>19 11 15</u>
		7.2.2
		7.2.3
		7.2.4
		(15 10 10 1010001) (<u>1115002</u>) <u>19 11 15</u>
		(15 261) (<u>19</u> 386)

7.2

(p. 16 p. 18)

10

1)
(1)

10h

20h

(2)
(1)

(3)

(ng)

$$(\text{ng/L}) \times \frac{1000}{10}$$

2)
(1)

10h

20h

(2)
(1)

7.2

(p. 15 p. 17)

10

1)
(1)

10h

20h

(2)
(1)

(3)

(ng)

$$(\text{ng/L}) \times \frac{1000}{10}$$

2)
(1)

10h

20h

(2)
(1)

(3)
(ng)

$$(\text{ng/L}) \times \frac{1000}{10}$$

(3)

20nl (2)

3)
(1)

10nl

20nl

(2)
(1)

(3)

(ng)

$$(\text{ng/L}) \times \frac{1000}{10}$$

7.2.1

(p. 24)

(p. 25)

(p. 26)

7.2.2

(3)
(ng)

$$(\text{ng/L}) \times \frac{1000}{10}$$

(3)

20nl (2)

3)
(1)

10nl

20nl

(2)
(1)

(3)

(ng)

$$(\text{ng/L}) \times \frac{1000}{10}$$

7.2.1

(p. 23)

(p. 24)

(p. 25)

7.2.2

(p. 24)

(p. 25)

(p. 26)

7.2.3

(p. 24)

(p. 25)

(p. 26)

7.2.4

- (1)
- (2) (1 5)
- (3)
- (4)

16.7g L

- (5)
- (6)

() 250g L

- (7)
- (8)
- (9)
- (10)

100g 50ml
25ml

(p. 23)

(p. 24)

7.2.3

(p. 23)

(p. 24)

7.2.4

- (1)
- (2) (1 5)
- (3)
- (4)

16.7g L

- (5)
- (6)

() 250g L

- (7)
- (8)
- (9)
- (10)

100g 50ml
25ml

(11)

L 0.100g

1ml 0.1ng

(12)

1ml 0.001ng 100

(1)

300ml

(2)

(3)

200 250

0.20 0.53mm 25 30m
0.50μ m

20 50 240 5 200

(m/z)

2- 106 149 70

()

() 70V

99.999v/v

(11)

L 0.100g

1ml 0.1ng

(12)

1ml 0.001ng 100

(1)

300ml

(2)

(3)

200 250

0.20 0.53mm 25 30m
0.50μ m

20 50 240 5 200

(m/z)

2- 106 149 70

()

() 70V

99.999v/v

(1) 100nh (0.00002 0.001ng/L (1 5) pH 1 10nh)
 40g 40
 50nh
 50nh
 (25nh)
 0.9nh
 0.05nh 1nh 30
 130 16 10g 20nm
 ()
 1: 49 100nh
 1: 4
 100nh
 0.9nh 0.05nh
 1nh
 (2) (1) (3) 2- (3)
 (3) 100nh (1) (2)

(1) 100nh (0.00002 0.001ng/L (1 5) pH 1 10nh)
 40g 40
 50nh
 50nh
 (25nh)
 0.9nh
 0.05nh 1nh 30
 130 16 10g 20nm
 ()
 1: 49 100nh
 1: 4
 100nh
 0.9nh 0.05nh
 1nh
 (2) (1) (3) 2- (3)
 (3) 100nh (1) (2)

261)

(15

(1)

1ng

(1ng/ml)

	L	(4) 1.841g	
		1.903g (1+160)	L (1+1)
L		1.575g	(1+160)

(2)

	(ng/ml)	
	0.01	100
	0.001	1000
	0.0001	10000

(3)

	(ng/L)	(ml)
	0.002 0.2	313.3
	0.0007 0.07	553.6
	0.0001 0.01	328.1

261)

(15

(1)

1ng

(1ng/ml)

	L	(4) 1.841g	
		1.903g (1+160)	L (1+1)
L		1.575g	(1+160)

(2)

	(ng/ml)	
	0.01	100
	0.001	1000
	0.0001	10000

(3)

	(ng/L)	(ml)
	0.002 0.2	313.3
	0.0007 0.07	553.6
	0.0001 0.01	328.1

261)

(15

(1)

(2)

1ml L 10ml 10ml 100
 0.0001ng

(3)

10ml L 10
 ml 100
 1ml 0.0001ng

(4)

	(ng/L)	(ml)
	0.0002 0.02	202.030 281.615
	0.00004 0.004	233.527 455.403
	0.00006 0.006	328.068 338.289

261)

(15

(1)

(2)

1ml L 10ml 10ml 100
 0.0001ng

(3)

	(ng/L)	(ml)
	0.0002 0.02	202.030 281.615
	0.00004 0.004	233.527 455.403
	0.00006 0.006	328.068 338.289

(15

261)

(1)

(2)

(3)

(4)

	(ng/L)	
	0.00004 0.004	95 96 98
_____	<u>0.0001 0.01</u>	<u>137, 138</u>
—	<u>0.0001 0.01</u>	<u>107</u>

(15

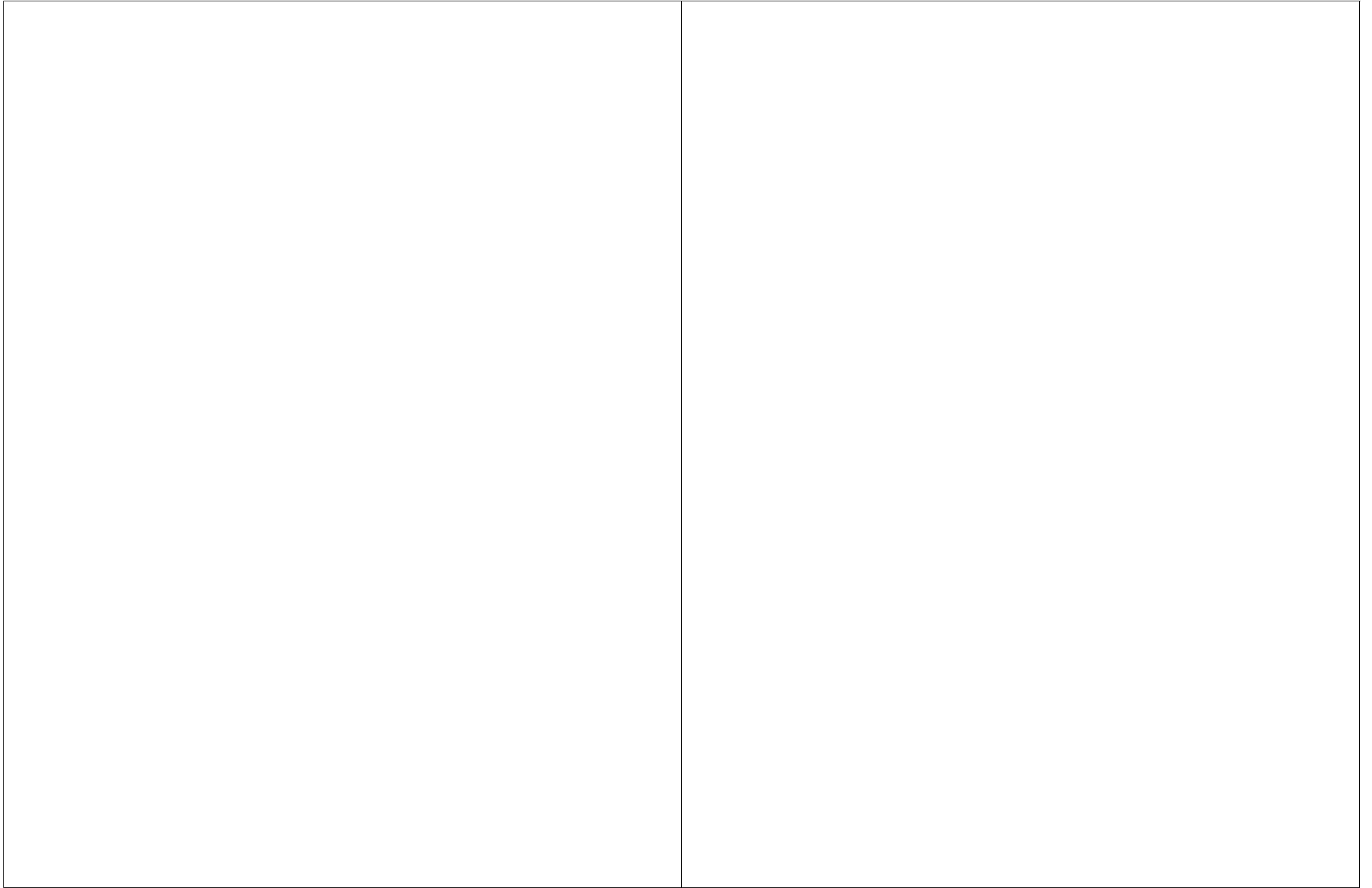
261)

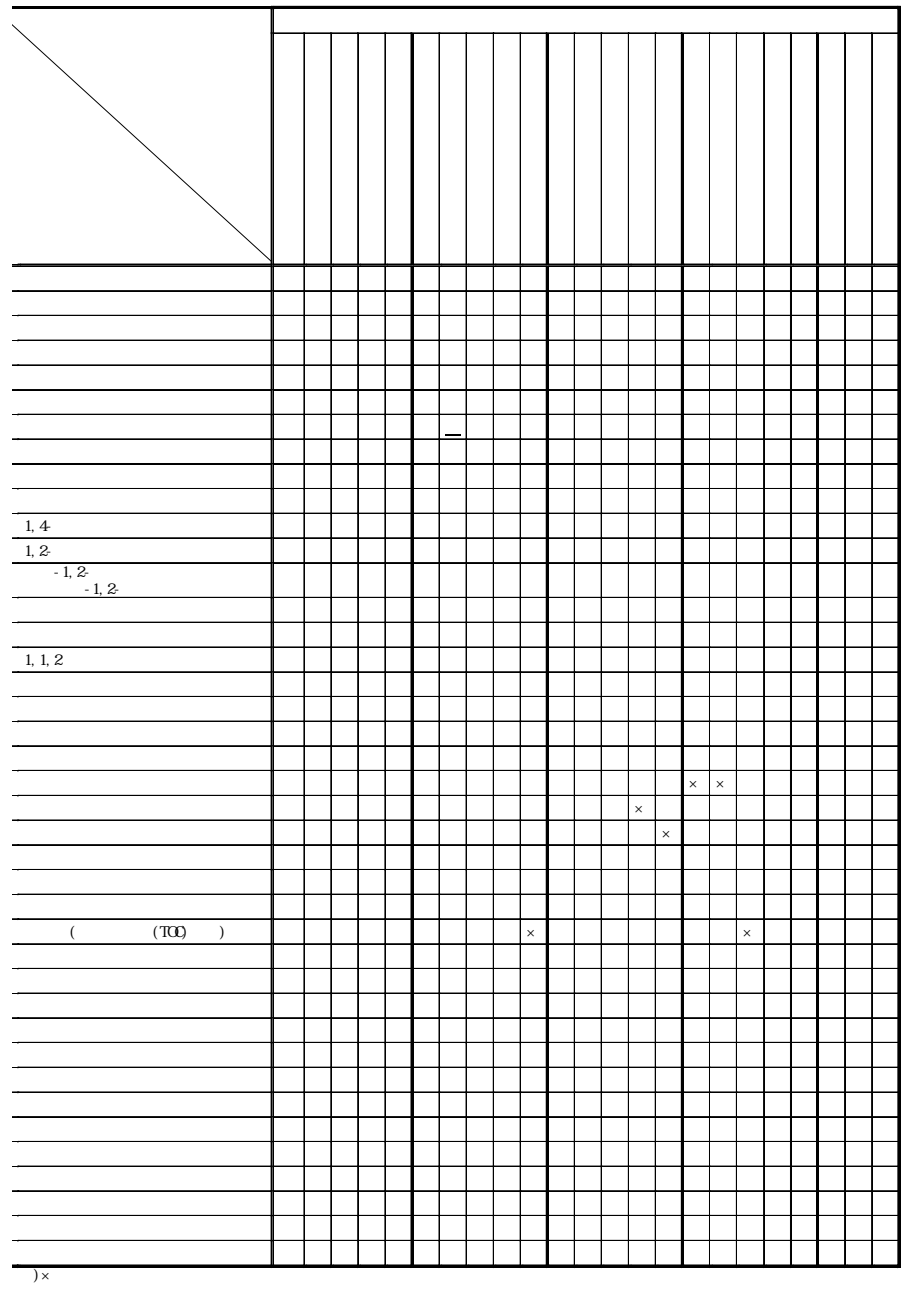
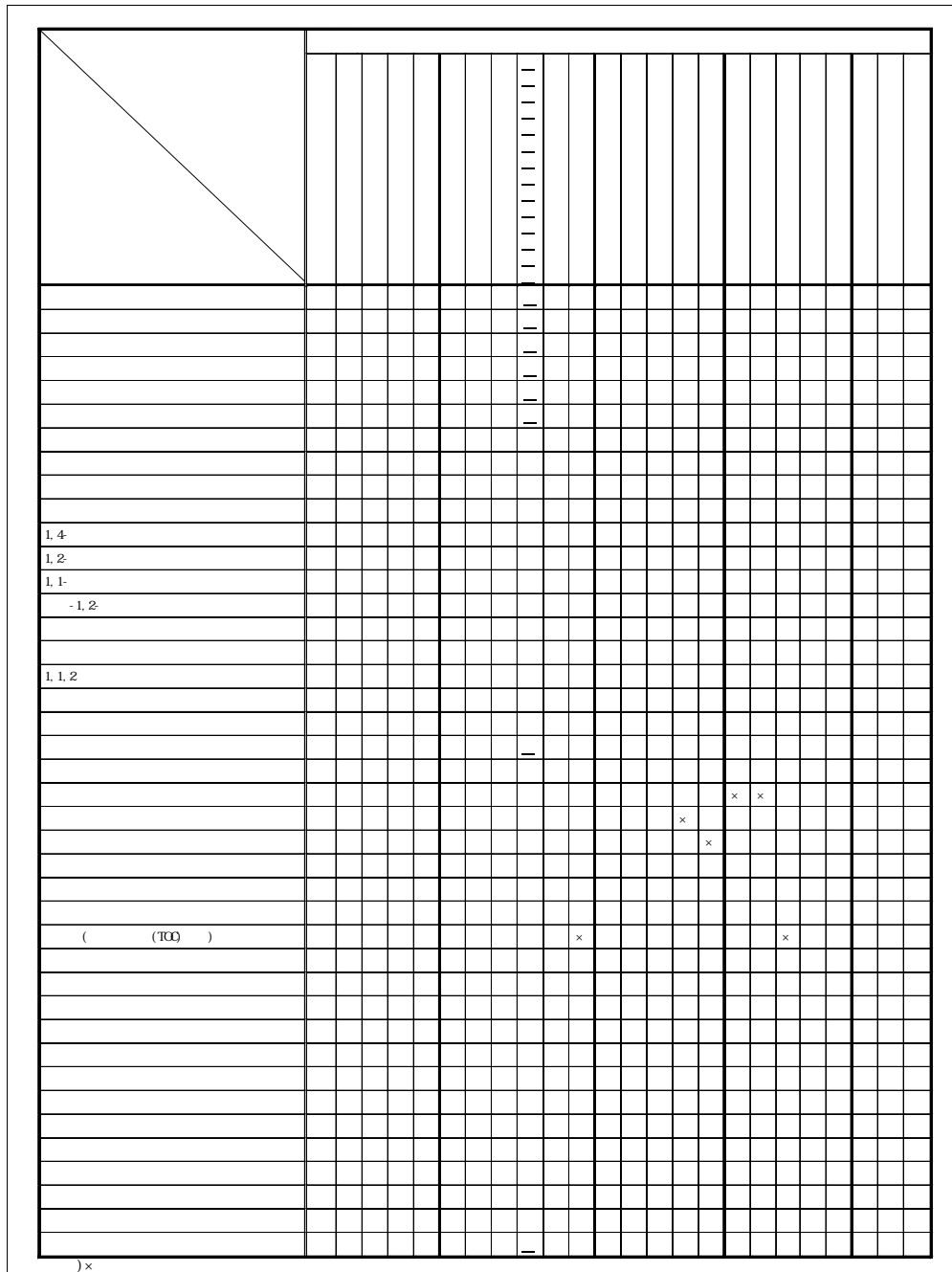
(1)

(2)

(3)

	(ng/L)	
	0.00004 0.004	95 96 98





	() (ng/L)	(ng/L)	(ng/L)	
)	200	130	333	
)	<u>100</u>	240	200	
)	300	360	333	
)	100	52	500	
	100	80	500	
	100	55	100	
	50	50	125	
)	100	92		
	20			
)	100			
	20		250	
	50			
	50	30		
	2	0.25		
	10			
	300			
	1			

()

- 1) 8
- 2) 15
- 3) 10
- 4) 45
- 5) 10
- 6) 50

	() (ng/L)	(ng/L)	(ng/L)	
)	200	130	333	
)	<u>200</u>	240	200	
)	300	360	333	
)	100	52	500	
	100	80	500	
	100	55	100	
	50	50	125	
)	100	92		
	20			
)	100			
	20		250	
	50			
	50	30		
	2	0.25		
	10			
	300			
	1			

()

- 1) 8
- 2) 15
- 3) 10
- 4) 45
- 5) 10
- 6) 50

	15		261	
			31	
		4	5	6
	20	22		
	1			
		17	2	
	15		318	1
	2	3		

		3	4	5
	6			
		7		
		3	6	8
	9			
		3	5	
	6			
		3	6	
	10	11		
		3	4	5

	15		261	
			31	
		4	5	20
	22			
	1			
		17	2	
	15		318	1
	2	3		

		3	4	5
	6			
		7		
		3	6	8
	9			
		3	5	
	6			
		3	6	10
	11			
		3	4	5

	6			
		12		
		13		
		13		
		5	6	
		14	15	
		14	16	
		15	10	10
			1010001	
		1	2	
		14	15	
		14	15	
		14	15	
		1	2	
		14	15	
		14	15	
		19		
		3	4	5
	6	3	5	
	6	3	4	5
	6	3	4	5
	6	3	4	5

	6			
		12		
		13		
		13		
		5	6	
		14	15	
		14	16	
		15	10	10
			1010001	
		1	2	
		14	15	
		14	15	
		14	15	
		14	15	
		1	2	
		14	15	
		14	15	
		19		
		3	4	5
	6	3	5	
	6	3	4	5
	6	3	4	5
	6	3	4	5
	6	3	4	5

		3	4	5
	<u>6</u>	20		
	6	3	4	5
		13	21	
		23		
		24		
		28		
		29		
		30		
		33		
		34		
		35	36	
		38	39	
	41			
	2			
	4			
	5			
	5			
	2	3		
	2	3		
	2	3		
	2	3		
	2	3		

		3	4	5
	20			
	6	3	4	5
		13	21	
		23		
		24		
		28		
		29		
		30		
		33		
		34		
		35	36	
		38	39	
	41			
	2			
	4			
	5			
	5			
	2	3		
	2	3		
	2	3		
	2	3		
	2	3		
	2	3		
		45		

19	3	31	12
12	46	24	
24	47	29	
29	48		

0209003

	15		261			15		261	
			31					31	
		4	5	6			4	5	
	20	22			20	22			
	1					1			
		17	2				17	2	
	15		318	1		15		318	1
	2	3				2	3		
		3	4	5			3	4	5
	6					6			
		7					7		
		3	6	8			3	6	8
	9					9			
		3	5				3	5	
	6					6			

		3	6	
	10	11		
		3	4	5
		6		
		12		
		13		
		13		
		5	6	
		14	15	
		14	16	
		15	10	10
			1010001	
		1	2	
	—	14	15	
—				
		14	15	
		14	15	
		1	2	
		14	15	
		14	15	
		19		
		3	4	5
	6			
		3	5	
	6			

		3	6	
	10	11		
		3	4	5
		6		
		12		
		13		
		13		
		5	6	
		14	15	
		14	16	
		15	10	10
			1010001	
		1	2	
	—	14	15	
—				
		14	15	
		14	15	
		14	15	
		14	15	
		1	2	
		14	15	
		14	15	
		19		
		3	4	5
	6			
		3	5	
	6			

		(ng L)			(ng L)
1			1		
2		0.7	2		0.7
3			3		
4		0.07	4		0.07
5		0.0005	5		0.0005
6			6		
7	17	0.00008	7	17	0.00008
8		0.00002	8		0.00002
9		0.5	9		0.5
10		0.0004	10		0.0004
11		0.002	11		0.002
12			12		
13			13		
14			14		
15			15		
16		0.02	16		0.02
17			17		
18			18		
19		0.3	19		0.3
20		0.1	20		0.1
21			21		
22			22		
23			23		
24		0.2	24		0.2

25		0.5
26		0.0008
27		0.0006
28		
29		
30		
31		
32		
33		
34		
35		
36		0.06
37		
38		0.001
39		
40		0.4
<u>41</u>	_____	—
<u>42</u>	_____	—
<u>43</u>	_____	—
<u>44</u>	- _____	—

25		0.5
26		0.0008
27		0.0006
28		
29		
30		
31		
32		
33		
34		
35		
36		0.06
37		
38		0.001
39		
40		0.4