

dusitD2

SAMYAN · BANGKOK

ภาคผนวก ฉ

หนังสือขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน



क्र.सं.	परिक्षा	विषय
35	प्रश्नोत्तर	1) Distillation, Chloroform Extraction Method ¹
36	लेखन	1) Distillation, Direct Photometric Method ²⁾ 1) Distillation, Mercury Generation Atomic Absorption Spectrometric Method ³⁾
40	सुझाव	2) Digestion, Inductively Coupled Plasma Method ⁴⁾ 2) Unknown Method ⁵⁾
41	तुलना	2) Method of Blue Method ⁶⁾ Laboratory and Field Methods ⁷⁾
42	तुलना	Estimate at 582 nm ⁸⁾
43	तुलना	Colorimetric Method ⁹⁾
46	तुलना	Direct from 15a to 15b ¹⁰⁾
47	तुलना	2) Distillation, Direct Absorbance Ratio Method, Colorimetric Method, Calorimetric ¹¹⁾
48	तुलना	2) Digestion, Inductively Coupled Plasma Method, Colorimetric Method, Calorimetric ¹²⁾
49	तुलना	1) Distillation, Direct Absorbance Ratio Method ¹³⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ¹⁴⁾
		3) Digestion, Inductively Coupled Plasma Method ¹⁵⁾

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क्र.सं.	प्रश्न	उत्तर
1	Asymptotic	1) Liquid-Liquid Extraction, Gas Chromatography Method ¹⁾
2	Asymptotic	2) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ²⁾
3	Asymptotic	3) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ³⁾
4	Asymptotic	4) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ⁴⁾
5	Asymptotic	5) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ⁵⁾
6	Asymptotic	6) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ⁶⁾
7	Asymptotic	7) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ⁷⁾
8	Asymptotic	8) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ⁸⁾
9	Asymptotic	9) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ⁹⁾
10	Asymptotic	10) Liquid-Liquid Extraction, Gas Chromatography, Mass Spectrometry Method ¹⁰⁾

ลำดับ	สารเคมี	วิธีการวิเคราะห์
5	Antimony	Digestion, Inductively Coupled Plasma Method ³⁴
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ³¹ 2) Digestion, Inductively Coupled Plasma Method ³⁵
7	Asoline	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ³²
8	Bismuth	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ³⁴ 2) Digestion, Inductively Coupled Plasma Method ³⁵
9	Benzotetracycline	1) Liquid-Liquid Extraction, Gas Chromatographic Method ³³ 2) Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ³⁶
10	Benzene	Purge and Trap Gas Chromatography/ Mass Spectrometric Method ³⁷
11	Benzodibenzofuran	1) Liquid-Liquid Extraction, Gas Chromatographic Method ³⁸ 2) Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ³⁹
12	Benzofluorenone	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁴⁰ 2) Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ⁴¹
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ⁴²
14	Benzobiphenyl	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁴³ 2) Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ⁴⁴
15	Benzobiphenylene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁴⁵ 2) Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ⁴⁶
16	Borolium	Digestion, Inductively Coupled Plasma
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ⁴⁷
18	Bis(2-ethylhexyl)ether	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ⁴⁸

สารเคมี	วิธีการวิเคราะห์	วิธีมาตรฐาน
19) Polymethylsiloxanes/methane	Purge and Trap Gas Chromatography/ Mass Spectrometric Method ²⁰	
20) Benzene	Purge and Trap Gas Chromatography/ Atmos Spectrometric Method ²¹	
21) Butanol	Purge and Trap Gas Chromatography/ Mass Spectrometric Method ²²	
22) Ethyl benzene, p-xylene	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²³	
23) Cyclohexane	1) Distillation, Direct Air-Analysis Pumping Method ²⁴ 2) Distillation, Electrothermal Atomic Absorption Spectrometric Method ²⁵	
24) Carbon dioxide	20 Digestion, Inductively Coupled Plasma Atomic Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²⁶	
25) Chloroacetaldehyde	Purge and Trap Gas Chromatography/ Mass Spectrometric Method ²⁷	
26) Chlorobenzene	Purge and Trap Gas Chromatography/ Mass Spectrometric Method ²⁸	
27) Chloroform	1) Liquid-Liquid Extraction, Gas Chromatography/ Method ²⁹ 2) Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ³⁰	
28) p-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ³¹	
29) Chloroformamide	Purge and Trap Gas Chromatography/ Mass Spectrometric Method ³²	
30) Chlorofluoromethane	Purge and Trap Gas Chromatography/ Mass Spectrometric Method ³³	
31) Chloroform	Purge and Trap Gas Chromatography/ Mass Spectrometric Method ³⁴	
32) Dichlorobenzene	1) Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ³⁵	
33) Chloroform	1) Distillation, Direct Air-Analysis Pumping Method ³⁶ 2) Distillation, Electrothermal Atomic Absorption Spectrometric Method ³⁷	
34) Chloroform	20 Digestion, Inductively Coupled Plasma Atomic Absorption Spectrometry ³⁸	

क्र.सं.	सामग्री	परीक्षण विधियाँ
35	Chromium (II)	1) Digestion, Direct Air-Acetylene Flame Method, Colorimetric Method; Calculation ¹⁹ 2) Digestion, Inductively Coupled Plasma Method, Cold Vapor Method, Cold Vapor Method; Calculation ²⁰ 3) Colorimetric Method ²¹
36	Chrysene	1) Extraction, Air-Acetylene Flame Method ¹⁹ 2) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 3) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²¹
37	Cynidine	1) Distillation, Colorimetric Method ²¹
38	2,4-D	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹
39	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ¹⁹
40	DEH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²¹
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²¹
42	Dibenz(a,h)anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ¹⁹
43	Di-n-butyl phthalate	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²¹
44	1,2-Dichlorobenzene	1) Purge and Trap Gas Chromatography/Mass Spectrometric Method ¹⁹
45	1,3-Dichlorobenzene	1) Purge and Trap Gas Chromatography/Mass Spectrometric Method ¹⁹
46	1,4-Dichlorobenzene	1) Purge and Trap Gas Chromatography/Mass Spectrometric Method ¹⁹
47	3,3'-Dichlorobenzidine	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²¹

ลำดับที่	สารเคมีศึกษา	เทคนิคการวิเคราะห์
45	1.1 Dichloromethane	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
46	1.2 Dichloroethane	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
50	1.3 Dichloroethane	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
51	1.4 Dichloroethylene	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
52	1.5 Dichloroethylene	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
53	1.6 Dichloropropane	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
54	1.7 Dichloropropane	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
55	1.8 Dichloropropane	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
56	1.9 Dichloropropane	Large and Trap Gas Chromatography/ Mass Spectrometric Method ²¹
57	Trichloroethane	21 Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹ 22 Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
58	Trichloroethylene	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
59	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
60	2,6-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
61	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
62	2,6-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
63	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
64	Trichloroethylene	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
65	Trichloroethylene	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹
66	Trichloroethylene	Liquid-Liquid Extraction, Gas Chromatography/ Mass Spectrometric Method ²¹

Sl. No.	Substance	Method
65	Chloro	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²⁾
66	Ethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁾
67	Fluorobenzene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁾
68	Isobutene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁾
69	Methylcyclohexane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁾
70	Methylcyclohexane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁾
71	Monochlorobenzene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁾
72	Monochloro-1,3-Dioxane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁾
73	n-Heptane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁾
74	Octane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁾
75	Styrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁾

Sl. No.	Substance	Method
75	1,4-Dioxane	1) Liquid-Liquid Extraction, Gas Chromatographic Method 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ¹
77	1,4-Dichlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ¹
78	1,4-Dichlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ¹
79	1,4-Dichlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ¹
80	1,4-Dichlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ¹
81	Lead	1) Distillation, Direct Air Acetylene Flame Method ¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ¹ 3) Digestion, Inductively Coupled Plasma Method ¹
82	Manganese	1) Digestion, Direct Air Acetylene Flame Method ¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ¹ 3) Digestion, Inductively Coupled Plasma Method ¹
83	Mercury	1) Digestion, Inductively Coupled Plasma Method ¹ 2) Digestion, Cold Vapor Atomic Absorption Spectrometric Method ¹
84	Methanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ¹
85	Methylcyclohexane	Liquid-Liquid Extraction, Gas Chromatographic Method ¹
86	Methyl Ethyl Ketone	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ¹
87	Methylcyclohexane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ¹
88	1-Methylcyclohexane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ¹
89	2-Methylcyclohexane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ¹
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ¹

ลำดับ	สารเคมี	วิธีการวิเคราะห์
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾
92	Nitrol	1) Digestion, Direct Air-Acetylene Flame Method ¹⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²⁾ 3) Digestion, Inductively Coupled Plasma Method ³⁾
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾
95	N-Nitrosodipropylamine	Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1229 - PCB 1248 - PCB 1254 - PCB 1260	1) Liquid-Liquid Extraction, Gas Chromatography Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾
98	pH	Electrometric Method ¹⁾
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatography Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾
100	Phenol	1) Distillation, Chloroform Extraction Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatography Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Method ²⁾

ลำดับ	สารเคมี	วิธีการตรวจ
102	Selenium	1) Digestion, Hydride Generation Atomic Absorption Spectrometric Method ^{3,4} 2) Digestion, Inductively Coupled Plasma Method ^{3,5}
103	Styrene	Digestion, Inductively Coupled Plasma Method ^{3,5}
104	Styrene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
106	Triethylamine	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
107	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
108	Trioxophene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,7} 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^{3,8}
109	Urea-HCl - Cu	1) Purge and Trap, Gas Chromatographic Method ^{3,9} 2) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^{3,10}
110	Urea-HCl - Cd	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,11}
111	Urea-HCl - Cu	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,12}
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
115	Trichloromethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
116	2,4-Dinitrophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,13} 2) Ultrasonic Extraction, Gas Chromatographic/ Mass Spectrometric Method ^{3,14}
117	2,4,6-Trinitrophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,15} 2) Ultrasonic Extraction, Gas Chromatographic/ Mass Spectrometric Method ^{3,16}
118	1,2,3-Trinitrobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}

118) 1,2,3-Trinitrobenzene

ลำดับ	สารเคมี	วิธีการตรวจ
119	Vanadium	Digestion, Inductively Coupled Plasma Method ^{3,5}
120	Vinyl acetate	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
121	Vinyl chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
122	m-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
123	o-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
124	p-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
125	Xylene (Total)	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^{3,6}
126	Zinc	1) Digestion, Direct Atomic Absorption Spectrometric Method ^{3,17} 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^{3,18} 3) Digestion, Inductively Coupled Plasma Method ^{3,19}

วิธีปฏิบัติวิธีที่ระบุไว้ใช้บังคับ จำนวน 35 รายการ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Acetic	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,20} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,21}
2	Antimony	Digestion, Inductively Coupled Plasma Method ^{3,5}
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{3,22} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{3,23} 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{3,24} 4) Digestion, Inductively Coupled Plasma Method ^{3,25}
4	Barium	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,26} 2) Digestion, Inductively Coupled Plasma Method ^{3,27}

ลำดับ	สารเคมี	วิธีการตรวจ
5	Benzylalcohol	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{3,28}
6	Capromethin	1) Digestion, Inductively Coupled Plasma Method ^{3,29} 2) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{3,30} 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{3,31} 4) Digestion, Flame Atomic Absorption Spectrometric Method ^{3,32} 5) Digestion, Inductively Coupled Plasma Method ^{3,33}
7	Chloroform	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,34} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,35}
8	Chloroform	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{3,36} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{3,37} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{3,38} 4) Digestion, Inductively Coupled Plasma Method ^{3,39}
9	Chromic acid	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{3,40} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{3,41} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{3,42} 4) Digestion, Inductively Coupled Plasma Method ^{3,43}
10	Chromic acid	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{3,44} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{3,45} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{3,46} 4) Digestion, Inductively Coupled Plasma Method ^{3,47}
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{3,48} 2) Digestion, Inductively Coupled Plasma Method ^{3,49}

ลำดับ	สารเคมี	วิธีการตรวจ
10	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{3,50} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{3,51} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{3,52} 4) Digestion, Inductively Coupled Plasma Method ^{3,53}
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,54} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,55}
14	DDO	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,56} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,57}
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,58} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,59}
16	DGT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,60} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,61}
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,62} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,63}
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,64} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,65}
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{3,66} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{3,67}

क्र.सं.	अवस्थापिका	विषयवस्तु
२०	Lactol	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(A) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Atomic Absorption ^(B) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(C) 4) Digestion, Inductively Coupled Plasma Atomic Absorption ^(D)
२१	Methane	1) Waste Extraction, Squamous Element Liquid-Liquid Extraction, Gas Chromatographic Method ^(A) 2) Microscopic Examination, Gas Chromatography ^(B) 3) GC-MS ^(C)
२२	Amylose	1) Waste Extraction, Digestion, Cold Vapor Atomic Absorption Spectrometric Method ^(A) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Atomic Absorption ^(B) 3) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(C) 4) Digestion, Inductively Coupled Plasma Atomic Absorption ^(D) 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^(E)
२३	Acetylcholine	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatography Method ^(A) 2) Microscopic Examination, Gas Chromatographic Method ^(B)
२४	Methylmercury	1) Waste Extraction, Digestion, Inductively Coupled Plasma Atomic Absorption ^(A) 2) Extraction, Inductively Coupled Plasma Atomic Absorption ^(B)
२५	Nicotinamide	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(A) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Atomic Absorption ^(B) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(C) 4) Digestion, Inductively Coupled Plasma Atomic Absorption ^(D)

26. Polysyllabic words are written as follows:

ลำดับ	สารเคมี	วิธีการเก็บ
26	Polychlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1293 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,3,5-Trichlorobiphenyl - 2,3,5-Tetrachlorobiphenyl - 2,3,4,5-Tetrachlorobiphenyl - 2,3,4,6-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4,6'-Hexachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,4',5'-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Octachlorobiphenyl - 2,2',3,4,4',5,5',6-Octachlorobiphenyl - 2,2',3,4,4',5,5',6-Nitrocholorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic method (GC) 2) Ultrasonic Extraction, Gas Chromatography GC-Mass Spectrometry

3 F

Sl.No	சமஸ்திப	தேர்ச்சுமுறை
27	Pentachlorobenzene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾ 2) Microscale Distillation, Gas Chromatography/ Mass Spectrometric Method ⁽³⁾⁽⁴⁾ 3) Waste Extraction, Purge and Trap, Gas Chromatography/ Mass Spectrometric Method ⁽⁵⁾⁽⁶⁾
28	Pb	1) Waste Extraction, Purge and Trap, Gas Chromatography/ Atomic Absorption Spectrometric Method ⁽¹⁾⁽²⁾ 2) Waste Extraction, Digestion and Inductively Coupled Plasma Method ⁽³⁾⁽⁴⁾ 3) Digestion, Hydride Generation/Acidic Absorption Spectrometric Method ⁽⁵⁾⁽⁶⁾ 4) Digestion, Inductively Coupled Plasma Method ⁽⁷⁾⁽⁸⁾
29	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽²⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽³⁾⁽⁴⁾
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽²⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽³⁾⁽⁴⁾
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽²⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽³⁾⁽⁴⁾
32	Tetraophenyl	1) Waste Ex. at. ML Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾ 2) Microscale Distillation, Gas Chromatographic Method ⁽³⁾⁽⁴⁾
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatography/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾ 2) Waste Extraction, Equilibrium Headspace, Gas Chromatography/Mass Spectrometric Method ⁽⁴⁾⁽⁵⁾ 3) Purge and Trap, Gas Chromatography/ Mass Spectrometric Method ⁽⁶⁾⁽⁷⁾ 4) Equilibrium Headspace, Gas Chromatography/ Mass Spectrometric Method ⁽⁸⁾⁽⁹⁾
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽²⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽³⁾⁽⁴⁾

5521C

ลำดับ	สารเคมี	วิธีการวิเคราะห์
55	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method. ^{5,14} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method. ^{5,15} 3) Digestion, Flame Atomic Absorption Spectrometric Method. ^{5,14} 4) Digestion, Inductively Coupled Plasma Method. ^{5,15}

ព្រះបាទនរោត្តម

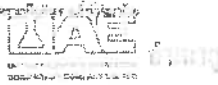
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2. American Public Health Association, American Water Works Association, WPA 2566. *Standard Methods for the Examination of Water and Wastewater*, 19th ed. Washington, DC: APHA, 1995.
3. APHA, AWWA, WEF. *Standard Methods for the Examination of Water and Wastewater*, 20th ed. Washington, DC: APHA, 1995.
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9. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Volatile Organic Compounds in Various Sample Matrices Using Equilibrium Headspace Analysis*. SW-846 Method 5021A, 2014.
10. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Purge and Trap for Volatile Samples*. SW-846 Method 5030C, 2005.
11. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Closed System Purge and Trap and Extract Volatile Organics in Soil and Waste Sample*. SW-846 Method 5035A, 2000.

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เรื่อง ขอเชิญชวนผู้ประกอบการและผู้ประกอบการในต่างประเทศ
 เข้าร่วมการแข่งขันประกวดผลิตภัณฑ์สินค้าไทย-ต่างประเทศ ประจำปี ๒๕๖๒
 โดยมีวัตถุประสงค์เพื่อส่งเสริมการค้าระหว่างประเทศไทยกับต่างประเทศ
 และเพิ่มขีดความสามารถในการแข่งขันของประเทศไทย
 สำหรับรายละเอียดการประกวดผลิตภัณฑ์สินค้าไทย-ต่างประเทศ ประจำปี ๒๕๖๒
 สามารถดูได้ที่เว็บไซต์กรมส่งเสริมการค้าระหว่างประเทศ
 หรือติดต่อขอข้อมูลเพิ่มเติมได้ที่
 กรมส่งเสริมการค้าระหว่างประเทศ
 กระทรวงพาณิชย์
 เลขที่ ๒๒ มีนบุรี ๒๕๖๒

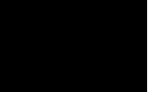
- การประกวดผลิตภัณฑ์สินค้าไทย-ต่างประเทศ ประจำปี ๒๕๖๒
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 ดังนี้
1. ประเภทสินค้า
 2. ประเภทสินค้า
 3. ประเภทสินค้า
 4. ประเภทสินค้า
 5. ประเภทสินค้า
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 7. ประเภทสินค้า
 8. ประเภทสินค้า
 9. ประเภทสินค้า
 10. ประเภทสินค้า
 11. ประเภทสินค้า
 12. ประเภทสินค้า
 13. ประเภทสินค้า
 14. ประเภทสินค้า
 15. ประเภทสินค้า
 16. ประเภทสินค้า



หน้า 1



ขอเชิญชวนผู้ประกอบการและผู้ประกอบการในต่างประเทศ
 เข้าร่วมการแข่งขันประกวดผลิตภัณฑ์สินค้าไทย-ต่างประเทศ ประจำปี ๒๕๖๒
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 และเพิ่มขีดความสามารถในการแข่งขันของประเทศไทย



กรมส่งเสริมการค้าระหว่างประเทศ
 กระทรวงพาณิชย์
 เลขที่ ๒๒ มีนบุรี ๒๕๖๒



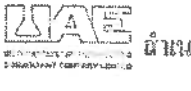
เรื่อง ขอเชิญชวนผู้ประกอบการและผู้ประกอบการในต่างประเทศ
 เข้าร่วมการแข่งขันประกวดผลิตภัณฑ์สินค้าไทย-ต่างประเทศ ประจำปี ๒๕๖๒
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 และเพิ่มขีดความสามารถในการแข่งขันของประเทศไทย

ลำดับ	สารเคมี	วิธีการวิเคราะห์
1	Acetone	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
2	Carboxyethylpyrrolidine	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
3	1,1-Dichloroethane	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
4	1,1-Dichloroethylene	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
5	Di-1,2-Dichloroethane	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
6	Di-1,2-Dichloroethylene	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
7	Ethylbenzene	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
8	Methylcyclohexane	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
9	Styrene	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
10	Tri-1,2-Dichloroethylene	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
11	Toluene	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
12	Tri-1,2-Dichloroethane	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
13	Tri-1,2-Dichloroethylene	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
14	Tri-1,2-Dichloroethane	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
15	Tri-1,2-Dichloroethylene	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}
16	Xylene (Total)	Equilibrium Headspace, Gas Chromatography/Mass Spectrometry Method ^{1,2}

หน้า 2

เรื่อง ขอเชิญชวนผู้ประกอบการและผู้ประกอบการในต่างประเทศ
 เข้าร่วมการแข่งขันประกวดผลิตภัณฑ์สินค้าไทย-ต่างประเทศ ประจำปี ๒๕๖๒
 โดยมีวัตถุประสงค์เพื่อส่งเสริมการค้าระหว่างประเทศไทยกับต่างประเทศ
 และเพิ่มขีดความสามารถในการแข่งขันของประเทศไทย

1. United States Environmental Protection Agency, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Volatile Organic Compounds in Various Sample Matrices Using Equilibrium Headspace Analysis, SW-846 Method 8021A, 2014.
2. United States Environmental Protection Agency, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260D, 2015.



กรมส่งเสริมการค้าระหว่างประเทศ
 กระทรวงพาณิชย์
 เลขที่ ๒๒ มีนบุรี ๒๕๖๒

ទំព័រ ៤១ នៃ ៤៦ ទំព័រ

 $\frac{1}{2} \text{ C}_2\text{H}_6 + \frac{7}{2} \text{ O}_2 \rightarrow 2 \text{ CO}_2 + 3 \text{ H}_2\text{O}$ 354100

2002年12月

25. *Phragmites australis* (Cav.) Trin. ex Steud.

क्र.सं.	विषय	परीक्षा
1	General Organic Chemistry	1. Physical and Chemical Gas Chromatography Mass Spectrometry 2. Qualitative and Quantitative Gas Chromatography 3. Spectrometric Analysis
2	ANALYTICAL	1. Physical and Chemical Gas Chromatography Mass Spectrometry
3	ANALYTICAL	1. Physical and Chemical Gas Chromatography Mass Spectrometry 2. Qualitative and Quantitative Gas Chromatography 3. Spectrometric Analysis

คำถาม	คำตอบ	วิธีวิเคราะห์
15. Benzofuran	1) Thin Layer Chromatography, Gas Chromatography 2) Liquid Liquid Extraction, Gas Chromatography 3) Gas Chromatography	
16. Benzoin	1) Distillation, molecular Sieves Purification Method	
17. Benzoin benzoate	1) Thin Layer Chromatography, Gas Chromatography 2) Mass Spectrometry Method	
18. Benzoin benzoate + Benzoin	1) Liquid Liquid Extraction, Gas Chromatography 2) Mass Spectrometry Method	
19. Benzoin benzoate + Benzoin	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
20. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
21. Benzoin	1) Distillation and Gas Chromatography 2) Mass Spectrometry Method	
22. Benzoin benzoate	1) Liquid Liquid Extraction, Gas Chromatography 2) Mass Spectrometry Method	
23. Benzoin	1) Distillation, Mass Spectrometry, Flame Method 2) Liquid Liquid Extraction, Gas Chromatography 3) Supercritical Extraction	
24. Benzoin	1) Distillation, molecular Sieves Purification Method 2) Thin Layer Chromatography, Gas Chromatography	
25. Benzoin	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
26. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
27. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
28. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
29. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
30. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
31. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
32. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
33. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
34. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
35. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
36. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
37. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
38. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
39. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
40. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
41. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
42. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
43. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
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49. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	
50. Benzoin benzoate	1) Distillation and Gas Chromatography 2) Supercritical Extraction	

$$S_1(\zeta, \eta) = \int_0^1 \int_0^1 \zeta^{\alpha-1} \eta^{\beta-1} d\alpha d\beta, \quad \zeta, \eta \in \mathbb{C}^n.$$

क्र.सं.	अविवरण	विधियाँ
30	Chloroacrometastane	Burge and Trap Gas Chromatography/Mass Spectrometric Method ⁽¹⁾
31	Enflurane	Burge and Trap Gas Chromatography/Mass Spectrometric Methods ⁽¹⁾
32	Dichloromethane	Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Methods ⁽¹⁾
33	Ethanol	1) Digestion, Direct Air Acetylene Flame, Atomic Absorption 2) Digestion, Heat-stabilized Picric Acid Solution, Spectrophotometric Methods ⁽¹⁾ 3) Distillation, Inductively Coupled Plasma Method ⁽¹⁾
34	Glycolic acid	1) Digestion, Direct Air Acetylene Flame Method, Colorimetric Methods/Calorimetry ⁽¹⁾ 2) Digestion, Inductively Coupled Plasma Method, Chromatographic Methods, Calorimetry ⁽¹⁾
35	Glutamic acid	1) Colorimetric Methods ⁽¹⁾ 2) Extraction, Air-Acetylene Flame Method ⁽¹⁾
36	Guar gum	1) Liquid-Liquid Extraction, Gas Chromatography Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Methods ⁽¹⁾
37	Hematin	Dialysis, Gel Permeation Chromatography ⁽¹⁾
38	Hg (D)	Liquid-Liquid Extraction, Gas Chromatography Method ⁽¹⁾
39	HCl	1) Liquid-Liquid Extraction, Gas Chromatography Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Methods ⁽¹⁾
40	H ₂ O	1) Liquid-Liquid Extraction, Gas Chromatography Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Methods ⁽¹⁾
41	Iodine	1) Liquid-Liquid Extraction, Gas Chromatography Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometric Methods ⁽¹⁾

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[illegible]

55. *Journal of the American Medical Association*, 2000; 283: 2669-2674.

ลำดับ	สารประกอบ	วิธีการ
50	Liquid-Liquid Extraction	Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
51	Solid-Liquid Extraction	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
52	Solid-Solid Extraction	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
53	Solid-Liquid Extraction	Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
54	Solid-Liquid Extraction	Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
55	Solid-Liquid Extraction	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
56	Solid-Liquid Extraction	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
57	Solid-Liquid Extraction	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
58	Solid-Liquid Extraction	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
59	Solid-Liquid Extraction	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹
60	Solid-Liquid Extraction	1) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹ 2) Liquid-Liquid Extraction, Gas Chromatography/Mass Spectrometry Method ¹

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 $10^5 \pm 2.0 \times 10^4$ 125 58 8711

Sl. No.	Parameter	Parameter
1	Accuracy	Followed Sampling, Dispensing, Instructively Guided Practice Method
2	Analysis	Followed Sampling, Dispensing, Instructively Guided Practice Method, Questioning, Assessment (Direct and Indirect Method)
3	Content	Followed Sampling, Dispensing, Instructively Guided Practice Method
4	Contextualization	Followed Sampling, Dispensing, Instructively Guided Practice Method
5	Classroom	Followed Sampling, Dispensing, Instructively Guided Practice Method
6	Classroom	Followed Sampling, Dispensing, Instructively Guided Practice Method
7	Classroom	Followed Sampling, Dispensing, Instructively Guided Practice Method
8	Classroom	Followed Sampling, Dispensing, Instructively Guided Practice Method
9	Classroom	Followed Sampling, Dispensing, Instructively Guided Practice Method

ลำดับที่	สารเคมี	วิธีการวิเคราะห์
10	Benzene	1) Isotopic Sampling
11	Hydrogen Chloride	1) Isotopic Sampling, 2) Chromatographic Method
12	Hydrogen Fluoride	1) Isotopic Sampling, 2) Chromatographic Method
13	Hydrogen Sulfide	1) Isotopic Sampling, 2) Isotopic Method
14	Lead	1) Isotopic Sampling, Digestion, Direct An. Atomic Spectroscopy 2) Isotopic Sampling, Digestion, Inductively Coupled Plasma Method
15	Manganese	1) Isotopic Sampling, Digestion, Direct An. Atomic Spectroscopy 2) Isotopic Sampling, Digestion, Inductively Coupled Plasma Method
16	Mercury	1) Isotopic Sampling, Digestion, Cold Vapor Atomic Spectroscopy 2) Isotopic Sampling, Digestion, Cold Vapor Atomic Spectroscopy
17	Nickel	1) Isotopic Sampling, Digestion, Direct An. Atomic Spectroscopy 2) Isotopic Sampling, Digestion, Inductively Coupled Plasma Method
18	Chloride	1) Isotopic Sampling
19	Ammonia or Nitrogen	1) Isotopic Sampling, 2) Isotopic Method 3) Isotopic Sampling, 4) Isotopic Method
20	Antimony	1) Isotopic Sampling, Digestion, Inductively Coupled Plasma Method 2) Isotopic Sampling, Digestion, Inductively Coupled Plasma Method
21	Sulfur Dioxide	1) Isotopic Sampling, 2) Isotopic Method 3) Isotopic Sampling, 4) Isotopic Method
22	Sulfur Hexafluoride	1) Isotopic Sampling, 2) Isotopic Method
23	Sulfur Hexafluoride	1) Isotopic Sampling, 2) Isotopic Method
24	Sulfur Hexafluoride	1) Isotopic Sampling, 2) Isotopic Method
25	Sulfur Hexafluoride	1) Isotopic Sampling, 2) Isotopic Method

Sl. No.	Parameter	Methods
1	Acidity	1) Waste Extraction, Titratory Method, Liquid-Liquid Extraction, Gas Chromatography Method ^{10,11} 2) Extraction, Extraction, and Chromatography Method ¹²
2	Alkalinity	1) Digestion, Inductively Coupled Plasma Method ^{13,14}
3	Ammonia	1) Waste Extraction, Digestion Method ¹⁵ 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁶ 3) Digestion, Inductively Coupled Plasma Method ¹⁷ 4) Digestion, Inductively Coupled Plasma Method ¹⁸
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{19,20} 2) Digestion, Inductively Coupled Plasma Method ²¹
5	Benzene	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²² 2) Digestion, Inductively Coupled Plasma Method ²³
6	Chlorine	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrophotometry Method ²⁴ 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{25,26} 3) Digestion, Flame Atomic Absorption Spectrophotometry Method ²⁷
7	Chlorides	1) Waste Extraction, Inductively Coupled Plasma Method ²⁸ 2) Waste Extraction, Titratory Method, Liquid-Liquid Extraction, Gas Chromatography Method ²⁹ 3) Extraction, Extraction, and Chromatography Method ³⁰
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrophotometry Method ³¹ 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ³² 3) Digestion, Inductively Coupled Plasma Method ³³ 4) Digestion, Inductively Coupled Plasma Method ³⁴

ปีงบประมาณ	กิจกรรมที่	กิจกรรมหลัก
9	Chemistry (C)	39 Digestion, Flame Atomic Absorption Spectrometric Method ⁷⁰⁻⁷¹ 40 Digestion, Inductively Coupled Plasma Method ⁷²⁻⁷³ 41 Waste Extraction, Distillation, Flame Atomic Absorption Spectrometric Method ⁷⁴⁻⁷⁶ , Columnar ⁷⁷⁻⁷⁸ 42 Waste Extraction, Distillation, Inductively Coupled Plasma Method, Waste Extraction, Colorimetric Method, Calculation ⁷⁹⁻⁸⁰ 43 Digestion, Flame Atomic Absorption Spectrometric Method, Alkaline Digestion, Colorimetric Method, Calculation ⁸¹⁻⁸² 44 Digestion, Inductively Coupled Plasma Method, Columnar ⁸³⁻⁸⁴
10	Chemistry (C)	45 Waste Extraction, Columnar ⁸⁵ 46 Alkaline Digestion, Colorimetric Method ⁸⁶ 47 Waste Extraction, Distillation, Inductively Coupled Plasma Method ⁸⁷
11	Chips	48 Digestion, Inductively Coupled Plasma Method ⁸⁸ 49 Waste Extraction, Distillation, Flame Atomic Absorption Spectrometric Method ⁸⁹ 50 Waste Extraction, Digestion, Inductively Coupled Plasma Method ⁹⁰ 51 Digestion, Flame Atomic Absorption Spectrometric Method ⁹¹ 52 Waste Extraction, Separatory Funnel, Liquid-Liquid Extractor, Gas Chromatographic Method ⁹²⁻⁹³ 53 Alkaline Digestion, Gas Chromatographic Methods ⁹⁴
12	DOD	54 Waste Extraction, Separatory Funnel, Gas Chromatographic Method ⁹⁵ 55 Digestion, Inductively Coupled Plasma Method ⁹⁶ 56 Waste Extraction, Separatory Funnel, Liquid-Liquid Extractor, Gas Chromatographic Method ⁹⁷ 57 Alkaline Digestion, Gas Chromatographic Methods ⁹⁸
13	DOD	58 Waste Extraction, Separatory Funnel, Gas Chromatographic Method ⁹⁹ 59 Digestion, Inductively Coupled Plasma Method ¹⁰⁰ 60 Waste Extraction, Separatory Funnel, Liquid-Liquid Extractor, Gas Chromatographic Method ¹⁰¹ 61 Alkaline Digestion, Gas Chromatographic Methods ¹⁰²

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53	महाराष्ट्र	1) Digestion, Cold Ascorbic Acid, Absorption Spectrometric Method ¹⁰ 2) Digestion, Inductively Coupled Plasma Method ¹¹ 3) Thermal Decomposition, Absorption and Atomic Absorption Spectrometric Method ¹² 4) Neutron Activation, Separatory Funnel, Liquid and Solid Extraction, Gas Chromatography Method ¹³ 5) Graphite Electrode, Gas Chromatography Method ¹⁴
54	महाराष्ट्र	1) Cold Ascorbic Acid, Spectrometric Method ¹⁰ 2) Inductively Coupled Plasma Method ¹¹
55	महाराष्ट्र	1) Digestion, Inductively Coupled Plasma Method ¹¹ 2) Warm Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ¹² 3) Warm Extraction, Digestion, Inductively Coupled Plasma Method ¹³ 4) Digestion, Warm and Cold Extraction Spectrometric Method ¹⁴ 5) Digestion, Inductively Coupled Plasma Method ¹⁵ 6) Warm Extraction, Separatory Funnel, Liquid and Solid Extraction, Gas Chromatography Method ¹⁶ 7) Graphite Electrode, Gas Chromatography Method ¹⁷
56	महाराष्ट्र	1) Digestion, Inductively Coupled Plasma Method ¹¹ 2) Warm Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ¹² 3) Warm Extraction, Digestion, Inductively Coupled Plasma Method ¹³ 4) Digestion, Warm and Cold Extraction Spectrometric Method ¹⁴ 5) Digestion, Inductively Coupled Plasma Method ¹⁵ 6) Warm Extraction, Separatory Funnel, Liquid and Solid Extraction, Gas Chromatography Method ¹⁶ 7) Graphite Electrode, Gas Chromatography Method ¹⁷

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00	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁴¹ 2) Digestion, Inductively Coupled Plasma Method ¹⁴²
01	Gold	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁴³ 2) Digestion, Inductively Coupled Plasma Method ¹⁴⁴
02	Lead	1) Waste Extraction, Supercritical Fluid/Liquid Liquid Extraction, Gas Chromatography Method ¹⁴⁵ 2) Extraction, Digestion, Gas Chromatography Method ¹⁴⁶
03	Mercury	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁴⁷ 2) Digestion, Inductively Coupled Plasma Method ¹⁴⁸
04	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁴⁹ 2) Digestion, Inductively Coupled Plasma Method ¹⁵⁰
05	Copper	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁵¹ 2) Digestion, Inductively Coupled Plasma Method ¹⁵²
06	Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁵³ 2) Digestion, Inductively Coupled Plasma Method ¹⁵⁴
07	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁵⁵ 2) Digestion, Inductively Coupled Plasma Method ¹⁵⁶
08	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁵⁷ 2) Digestion, Inductively Coupled Plasma Method ¹⁵⁸
09	Strontium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁵⁹ 2) Digestion, Inductively Coupled Plasma Method ¹⁶⁰
10	Yttrium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁶¹ 2) Digestion, Inductively Coupled Plasma Method ¹⁶²
11	Zirconium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁶³ 2) Digestion, Inductively Coupled Plasma Method ¹⁶⁴
12	Niobium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁶⁵ 2) Digestion, Inductively Coupled Plasma Method ¹⁶⁶
13	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁶⁷ 2) Digestion, Inductively Coupled Plasma Method ¹⁶⁸
14	Ruthenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁶⁹ 2) Digestion, Inductively Coupled Plasma Method ¹⁷⁰
15	Rhodium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁷¹ 2) Digestion, Inductively Coupled Plasma Method ¹⁷²
16	Palladium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁷³ 2) Digestion, Inductively Coupled Plasma Method ¹⁷⁴
17	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁷⁵ 2) Digestion, Inductively Coupled Plasma Method ¹⁷⁶
18	Tellurium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁷⁷ 2) Digestion, Inductively Coupled Plasma Method ¹⁷⁸
19	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁷⁹ 2) Digestion, Inductively Coupled Plasma Method ¹⁸⁰
20	Bismuth	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁸¹ 2) Digestion, Inductively Coupled Plasma Method ¹⁸²
21	Polonium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁸³ 2) Digestion, Inductively Coupled Plasma Method ¹⁸⁴
22	Arsenic	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁸⁵ 2) Digestion, Inductively Coupled Plasma Method ¹⁸⁶
23	Phosphorus	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁸⁷ 2) Digestion, Inductively Coupled Plasma Method ¹⁸⁸
24	Sulfur	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁸⁹ 2) Digestion, Inductively Coupled Plasma Method ¹⁹⁰
25	Chlorine	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁹¹ 2) Digestion, Inductively Coupled Plasma Method ¹⁹²
26	Bromine	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁹³ 2) Digestion, Inductively Coupled Plasma Method ¹⁹⁴
27	Iodine	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁹⁵ 2) Digestion, Inductively Coupled Plasma Method ¹⁹⁶
28	Fluorine	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁹⁷ 2) Digestion, Inductively Coupled Plasma Method ¹⁹⁸
29	Hydrogen	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ¹⁹⁹ 2) Digestion, Inductively Coupled Plasma Method ²⁰⁰
30	Helium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁰¹ 2) Digestion, Inductively Coupled Plasma Method ²⁰²
31	Neon	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁰³ 2) Digestion, Inductively Coupled Plasma Method ²⁰⁴
32	Argon	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁰⁵ 2) Digestion, Inductively Coupled Plasma Method ²⁰⁶
33	Krypton	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁰⁷ 2) Digestion, Inductively Coupled Plasma Method ²⁰⁸
34	Xenon	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁰⁹ 2) Digestion, Inductively Coupled Plasma Method ²¹⁰
35	Radium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²¹¹ 2) Digestion, Inductively Coupled Plasma Method ²¹²
36	Actinium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²¹³ 2) Digestion, Inductively Coupled Plasma Method ²¹⁴
37	Thorium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²¹⁵ 2) Digestion, Inductively Coupled Plasma Method ²¹⁶
38	Protactinium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²¹⁷ 2) Digestion, Inductively Coupled Plasma Method ²¹⁸
39	Uranium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²¹⁹ 2) Digestion, Inductively Coupled Plasma Method ²²⁰
40	Niobium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²²¹ 2) Digestion, Inductively Coupled Plasma Method ²²²
41	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²²³ 2) Digestion, Inductively Coupled Plasma Method ²²⁴
42	Technetium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²²⁵ 2) Digestion, Inductively Coupled Plasma Method ²²⁶
43	Ruthenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²²⁷ 2) Digestion, Inductively Coupled Plasma Method ²²⁸
44	Rhodium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²²⁹ 2) Digestion, Inductively Coupled Plasma Method ²³⁰
45	Palladium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²³¹ 2) Digestion, Inductively Coupled Plasma Method ²³²
46	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²³³ 2) Digestion, Inductively Coupled Plasma Method ²³⁴
47	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²³⁵ 2) Digestion, Inductively Coupled Plasma Method ²³⁶
48	Mercury	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²³⁷ 2) Digestion, Inductively Coupled Plasma Method ²³⁸
49	Lead	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²³⁹ 2) Digestion, Inductively Coupled Plasma Method ²⁴⁰
50	Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁴¹ 2) Digestion, Inductively Coupled Plasma Method ²⁴²
51	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁴³ 2) Digestion, Inductively Coupled Plasma Method ²⁴⁴
52	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁴⁵ 2) Digestion, Inductively Coupled Plasma Method ²⁴⁶
53	Strontium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁴⁷ 2) Digestion, Inductively Coupled Plasma Method ²⁴⁸
54	Yttrium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁴⁹ 2) Digestion, Inductively Coupled Plasma Method ²⁵⁰
55	Zirconium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁵¹ 2) Digestion, Inductively Coupled Plasma Method ²⁵²
56	Niobium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ²⁵³ 2) Digestion, Ind

ชื่อ-นามสกุล		ชื่อ-นามสกุล
1	Adonophora	Adonophora, Adonophora, Gas Chromatography, Mass Spectrometry, Adonophora
2	Adonophora	Adonophora, Adonophora, Gas Chromatography, Mass Spectrometry, Adonophora

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ลำดับ	สารเคมี	วิธีการวิเคราะห์
15	Polystyrylstyrene	1) Masssion Detection, Gas Chromatography/MS Method ¹²⁴ 2) Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹²⁵ Extraction, Inductively Coupled Plasma Atomic Emission Spectrometry ¹²⁶
16	Benzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹²⁷
17	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹²⁸
18	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹²⁹
19	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³⁰
20	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³¹
21	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³²
22	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³³
23	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³⁴
24	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³⁵
25	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³⁶
26	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³⁷
27	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³⁸
28	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹³⁹
29	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹⁴⁰
30	3,4-Dichlorobenzofuran	Ultrasonic Extraction, Gas Chromatography/MS Spectrometric Method ¹⁴¹

Sl. No.	Question	Answer
11	Chromatography	Paper and Thin Layer Chromatography, Mass Spectrometry, Method ¹²⁴¹
12	Chromatography	Classical Extraction, Gas Chromatography, Mass Spectrometry, Method ¹²⁴²
13	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁴³
14	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁴⁴
15	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁴⁵
16	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁴⁶
17	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁴⁷
18	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁴⁸
19	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁴⁹
20	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵⁰
21	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵¹
22	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵²
23	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵³
24	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵⁴
25	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵⁵
26	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵⁶
27	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵⁷
28	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵⁸
29	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁵⁹
30	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶⁰
31	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶¹
32	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶²
33	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶³
34	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶⁴
35	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶⁵
36	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶⁶
37	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶⁷
38	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶⁸
39	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁶⁹
40	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁷⁰
41	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁷¹
42	Chromatography	Classical Extraction, Paper Chromatography, Method ¹²⁷²

#	Substrate	Technique
40	Diphenyl picryl ether	Thermal Extraction, Gas Chromatography/Mass Spectrometry Method ^[79]
41	1,6-Dichlorobenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[80]
42	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[80]
43	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[80]
44	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[80]
45	1,2-Dichloroethane	Thermal Extraction, Gas Chromatography/Mass Spectrometry Method ^[81]
46	1,1-Dichloroethane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[82]
47	1,2-Dichloropropane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[83]
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[84]
49	1,2-Dichloropropane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[85]
50	1,1-Dichloroethane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[86]
51	1,2-Dichloroethane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[87]
52	Diphenylpicrylhydrazide	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[88]
53	2,6-Dichlorophenol	Thermal Extraction, Gas Chromatography/Mass Spectrometry Method ^[89]
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[90]
55	1,2-Dichloropropane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[91]
56	1,3-Dichloropropane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[92]
57	Diethyl ether	Thermal Extraction, Gas Chromatography/Mass Spectrometry Method ^[93]
58	1,2-Dichloropropane	Thermal Extraction, Gas Chromatography/Mass Spectrometry Method ^[94]
59	Diethyl phthalate	Thermal Extraction, Gas Chromatography/Mass Spectrometry Method ^[95]
60	1,2-Dichloropropane	Thermal Extraction, Gas Chromatography/Mass Spectrometry Method ^[96]

Sl. No.	OFFICER	REMARKS
84	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
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87	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
88	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
89	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
90	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
91	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
92	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
93	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
94	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
95	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
96	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
97	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
98	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
99	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture
100	Mr. M. S. Srinivasan	1. Mr. M. S. Srinivasan, G.O. Chinnayalpet, Bangalore Department of Agriculture

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71	Monochlorobenzene	27 Ultraviolet Extraction, Gas Chromatography Methods ¹⁹⁹² 28 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
72	Monochlorobenzene	29 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
73	Monochlorobenzene	30 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
74	Monochlorobenzene	31 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
75	Monochlorobenzene	32 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
76	Monochlorobenzene	33 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
77	Monochlorobenzene	34 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
78	Monochlorobenzene	35 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
79	Monochlorobenzene	36 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
80	Monochlorobenzene	37 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
81	Monochlorobenzene	38 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²
82	Monochlorobenzene	39 Ultraviolet Extraction, Gas Chromatography Methods Spectrometric Methods ¹⁹⁹²

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ลำดับที่	สารเคมี	วิธีการหาผล
119	1,1,1-trichloroethane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
113	1,1,2-trichloroethane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
114	Trichloroethylene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
115	1,1,2,2-tetrachloroethane	Absorptive Extraction, Gas Chromatography/Mass Spectrometry Method ^[1]
116	1,1,2,2-tetrachloroethene	Absorptive Extraction, Gas Chromatography/Mass Spectrometry Method ^[1]
117	1,3,5-trimethylbenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
118	Xylenes	Distillation, Solid-Phase Coated Phase Method ^[1]
119	Vinyl acetate	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
120	Vinyl chloride	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
121	n-Pentane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
122	n-Hexane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
123	p-Xylene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
124	Isomeric Penta	Purge and Trap, Gas Chromatography/Mass Spectrometry Method ^[1]
125	Toluene	1) Distillation Column At All Temperatures - See General Method ^[1] 2) Gas-Liquid Sorption Coated Phase Method ^[1]

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1. Содержание
2. Выводы

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1. 2000年10月1日起，凡在我国境内销售货物的单位和个人，均应按销售额的一定比例缴纳增值税。

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Abstract

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25. *Utricularia* *Utricularia*

