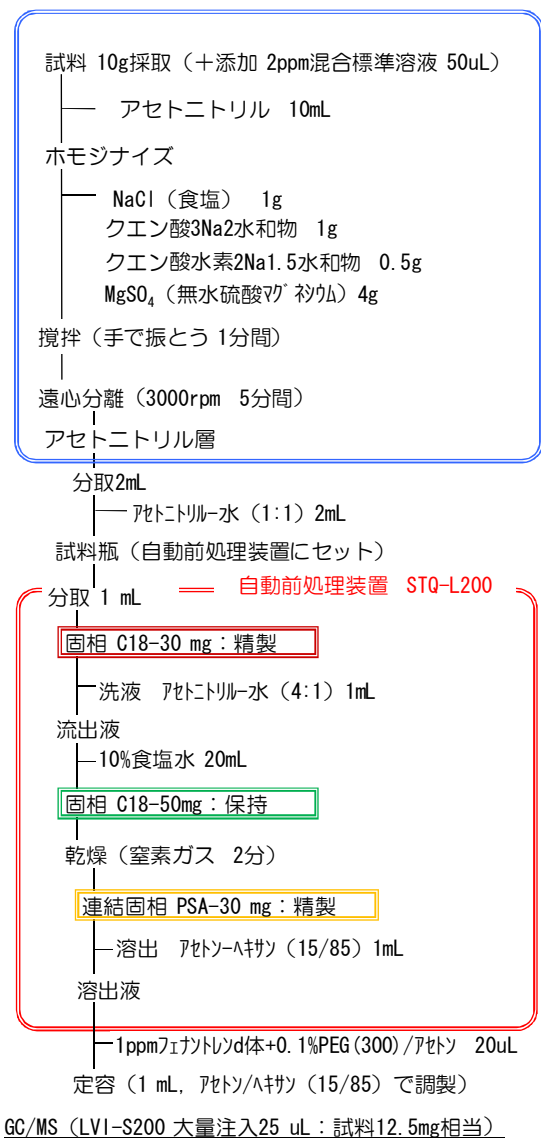
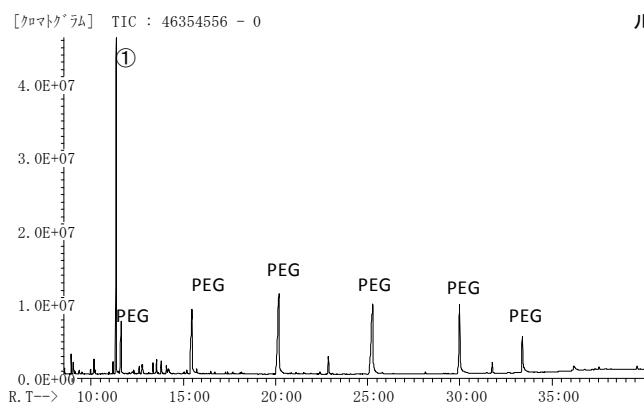


りんご（ふじ） L-GCB1

前処理フロー



Scan Chromatogram



目的/実験方法

自動前処理装置STQ-L200を用いた 添加回収試験(GC-B1法)

- 添加濃度（試料中）：10ppb
- 最終バイアル中濃度：5ppb
- 農薬：関東MIX-22, 31, 34, 48, 51
- 検量線：
 - ・PEG共注入標準溶液、絶対、直線検量線
 - ・1点：5ppb
 - ・20ppbフェナントレン体+20ppmPEG
 - ・+農薬混合標準溶液（アセトン-ヘキサン）
 - *フェナントレン体は装置の感度評価の目安として使用。
- 測定：1 Injection によるSCAN測定
- 測定条件：参考資料に従う。

- ①遠心分離後 ②固相（C18-30, C18-50+PSA）



考察

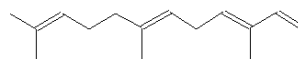
未知検出の影響からか、クレソキシムメチルの回収率がかなり高くなっている。

大きな夾雑ピークは無く、概ね良好な回収率を得ることができた。

未知検体からダイアジノン、クレソキシムメチル、トリフロキシストロビンが検出された。

【夾雑成分】

- ① a-farnesene (香気成分)



STQ-L200

For STQ Method

Sample



Information

水分：84.9%
脂質：0.1%
脂肪酸：0.03%

りんごは花おち、しん
及び果梗の基部を
除去したものを、フ
ードプロセッサで細切。

AISTI SCIENCE

Product

LVI-S200
STQ-L200
Smart-SPE C18-30
Smart-SPE C18-50
Smart-SPE PSA-30

株式会社アイスティサイエンス

〒640-8341
和歌山市黒田120-6アソート黒田2F
TEL. 073-475-0033
FAX. 073-497-5011
www.aisti.co.jp

No.	農薬名	回収率(%)	No.	農薬名	回収率(%)	No.	農薬名	回収率(%)	No.	農薬名	回収率(%)
1	1-Naphthylacetamide	ND	76	Cypermethrin-3	98.4	151	Fluthiacet-methyl	104.0	226	Profenofos	100.9
2	3-Hydroxycarbofuran	St-	77	Cypermethrin-4	106.8	152	Flutolanil	103.6	227	Prohydrojasmon-1	84.8
3	4,4'-Dichlorobenzophenone	94.8	78	Cyproconazole-1	101.2	153	Flutriafol	85.2	228	Prohydrojasmon-2	St-
4	Acephate	ND	79	Cyproconazole-2	97.4	154	Fluvalinate-1	93.8	229	Prometryn	95.5
5	Acetamipride	ND	80	DEF(tribufos)	94.5	155	Fluvalinate-2	100.3	230	Propachlor	90.7
6	Acetochlor	91.9	81	Deltamethrin	95.1	156	Formothion	ND	231	Propanil	80.6
7	Acrinathrin	98.0	82	Demeton-S-methyl	37.4	157	Fosthiazate-1	83.3	232	Propaphos	96.4
8	Alachlor	100.3	83	Diallate-1	97.7	158	Fosthiazate-2	75.6	233	Propargite(BPPS)	100.9
9	Allethrin-1,2	St-	84	Diallate-2	100.3	159	Halfenprox	91.6	234	Propazine	93.5
10	Allethrin-3,4	93.0	85	Diazinone	98.3	160	Hexaconazole	96.3	235	Propiconazole-1	94.7
11	Ametryn	89.5	86	Dichlofenthion	93.6	161	Hexazinone	ND	236	Propiconazole-2	94.4
12	Anilofos	96.4	87	Dichlofluanid	90.7	162	Imazamethabenz methyl	45.5	237	Propoxur	34.5
13	Aramite-3	96.8	88	Dichlorvos	ND	163	Imibenconazole	99.8	238	Propyzamide	95.1
14	Aramite-4	97.9	89	Diclocymet-1	98.2	164	Imibenconazole-des-benzyl	ND	239	Prothiophos	95.1
15	Atrazine	80.2	90	Diclocymet-2	93.0	165	Iprobenfos	96.9	240	Pyraclufos	100.9
16	Azaconazole	90.0	91	Diclofop-methyl	97.2	166	Iprodione	101.8	241	Pyraflufen-ethyl	96.3
17	Azinphos-Methyl	87.0	92	Dicloran	82.1	167	Isazophos	98.6	242	Pyrazophos	99.2
18	Benalaxyl	100.3	93	Dicrotofos	ND	168	Isofenphos	96.9	243	Pyributicarb	90.3
19	Bendiocarb	53.1	94	Diethofencarb	98.3	169	Isofenphos P=O	102.0	244	Pyridaben	93.9
20	Benfluranlin	102.0	95	Difenoconazole-1	99.0	170	Isoprocarbe	73.2	245	Pyridafenthion	96.5
21	Benfuresate	95.3	96	Difenoconazole-2	99.3	171	Isoprothiolane	99.4	246	Pyrifeno-1	91.6
22	Benoxacor	93.9	97	Diflufenican	96.3	172	Isoxathion	76.0	247	Pyrifeno-2	84.9
23	BHC-alpha	97.1	98	Dimepiperate	92.6	173	Isoxathion-ox	107.7	248	Pyrimethanil	91.2
24	BHC-beta	88.9	99	Dimethametryn	96.1	174	Kresoxim-methyl	416.3	249	Pyrimidifen	93.5
25	BHC-gamma	95.6	100	Dimethenamid	98.5	175	Lenacil	52.7	250	Pyriminobac-methyl-1	98.8
26	BHC-delta	102.2	101	Dimethipin	99.0	176	Malathion	98.1	251	Pyriminobac-methyl-2	95.0
27	Bifenox	87.6	102	Dimethoate	ND	177	Mecarbam	St-	252	Pyriproxyfen	98.3
28	Bifenthrin	92.1	103	Dimethylvinphos-z	103.2	178	Mefenacet	99.8	253	Pyroquilon	ND
29	Bitertanol-1	97.0	104	Dioxathion	ND	179	Mefenpyr-diethyl	97.2	254	Quinoclamine	ND
30	Bitertanol-2	89.6	105	Diphenamide	99.7	180	Mepronil	92.2	255	Quinolphos	94.1
31	Bromacil	ND	106	Disulfoton	88.5	181	Metalaxyl	89.6	256	Quinomethionate	82.8
32	Bromobutide	95.6	107	Disulfoton sulfone	104.0	182	Methamidophos	ND	257	Quinoxifen	91.6
33	Bromofos methyl	95.7	108	Edifenphos	98.4	183	Methidathion	101.7	258	Quintozen	88.0
34	Bromophos-ethyl	87.7	109	Endosulfan	91.9	184	Methiocarb	107.8	259	Resmethrin-1	St-
35	Bromopropylate	95.3	110	Endosulfan II	97.4	185	Methoprene-1	St-	260	Resmethrin-2	89.5
36	Bupimate	94.3	111	Endosulfan sulfate	101.8	186	Methoprene-2	90.8	261	Silafluofen	78.8
37	Buprofezin	92.8	112	EPN	83.1	187	Methoxychlor	93.0	262	Simazin	ND
38	Butachlor	91.3	113	Epoxiconazole	95.7	188	Metolachlor	101.0	263	Simetryn	69.8
39	Butamifos	101.0	114	EPTC	89.0	189	Metaminostrobin-e	94.6	264	Spirodiclofen	87.2
40	Butylate	90.9	115	Esprocarb	94.1	190	Metaminostrobin-z	92.3	265	Spiroxamine-1	83.0
41	Cadusafos	108.3	116	Ethalfuralin	93.4	191	Mevinphos	ND	266	Spiroxamine-2	85.8
42	Cafenstrole	104.0	117	Ethiofencarb	78.7	192	Monocrotophos	ND	267	TCMTB	112.7
43	Captafol	St-	118	Ethion	95.7	193	Myclobutanil	99.8	268	Tebuconazole	94.2
44	Captan	96.0	119	Ethofumesate	101.1	194	Napropamide	99.5	269	Tebufenpyrad	94.1
45	Carbaril	81.6	120	Ethoprophos	103.2	195	Nitrothal-isopropyl	86.9	270	Tecnazene	96.9
46	Carbofuran	47.5	121	Etofenprox	93.0	196	Norflurazon	95.1	271	Tefluthrine	89.6
47	Carboxin	64.7	122	Etoxazole	92.6	197	Oryzalin	St-	272	Terbacil	ND
48	Carfentrazone ethyl	99.6	123	Etrinfos	92.6	198	Oxadiazon	94.7	273	Terbufos	81.1
49	Chlorbenside	75.6	124	Fenamidone	99.6	199	Oxadixyl	ND	274	Terbutryn	96.1
50	Chlorbufam	39.9	125	Fenamiphos	101.4	200	Oxyfluorfen	91.2	275	Tetrachlorvinphos	99.8
51	Chlorothoxyphos	95.5	126	Fenarimol	105.3	201	p,p'-DDD	90.3	276	Tetraconazole	99.5
52	Chlorfenapyr	93.2	127	Fenbuconazole	97.9	202	p,p'-DDE	86.3	277	Tetradifon	93.4
53	Chlorfenson	91.6	128	Fenchlorphos	91.6	203	Paclobutrazol	96.2	278	Thenylchlor	96.5
54	Chlorfenvinphos-1	107.5	129	Fenitrothion	95.8	204	Parathion	78.8	279	Thiobencarb	97.7
55	Chlorfenvinphos-2	100.7	130	Fenobucarb	100.3	205	Parathion-methyl	88.1	280	Thiometon	99.0
56	Chlorobenzilate	100.1	131	Fenothiocarb	98.8	206	Penconazole	100.2	281	Tolclofos-methyl	93.2
57	Chloroneb	94.4	132	Fenoxanil	93.7	207	Pendimethalin	89.1	282	Tolfenpyrad	94.6
58	Chlorpropham	97.9	133	Fenpropathrin	90.7	208	Permethrin-cis	90.0	283	Toriadimefon	90.9
59	Chlorpyrifos	89.3	134	Fenpropemorph	91.9	209	Permethrin-trans	90.2	284	Triadimenol-1	95.9
60	Chlorpyrifos-methyl	92.8	135	Fensulfthion	104.1	210	Perthane	92.5	285	Triadimenol-2	91.2
61	Chlorthal-dimethyl	97.4	136	Fenthion	97.6	211	Phenothrin-1	83.8	286	Triallate	83.5
62	Chlozolinate	91.1	137	Fenvalerate-1	88.0	212	Phenothrin-2	93.2	287	Triazophos	96.5
63	Cinidon-ethyl	94.3	138	Fenvalerate-2	91.0	213	Phenthoate	97.4	288	Tricyclazole	ND
64	Clomazone	98.6	139	FIPRONIL	93.7	214	Phorate	97.0	289	Trifloxystrobin	147.9
65	Cyanazine	ND	140	Flamprop-methyl	102.2	215	Phosalone	95.3	290	Trifluralin	97.4
66	Cyanophos	93.0	141	Fluacrypyrim	94.7	216	Phosmet	110.8	291	Thifluzamide	64.7
67	Cyfluthrin-1	112.5	142	Flucythrinate-1	97.6	217	Phosphamidon	41.3	292	Uniconazole	96.1
68	Cyfluthrin-2	92.8	143	Flucythrinate-2	94.6	218	Phthalide	100.5	293	Vinclozoline	87.8
69	Cyfluthrin-3	97.8	144	Fludioxonil	73.6	219	Picolinafen	98.2	294	XMC	63.6
70	Cyfluthrin-4	86.7	145	Flufenpyl-ethyl	104.9	220	Piperonyl butoxide	95.4	295	Zoxamide	104.9
71	Cyhalofop-butyl	97.7	146	Flumiclorac-pentyl	98.5	221	Piperophos	104.7			
72	Cyhalothrin-1	91.9	147	Flumioxazin	97.4	222	Pirimicarb	51.3			
73	Cyhalothrin-2	88.2	148	Fluquinconazole	101.6	223	Pirimiphos methyl	100.0			
74	Cypermethrin-1	91.2	149	Fluridone	88.9	224	Pretilachlor	98.1			
75	Cypermethrin-2	115.7	150	Flusilazole	100.8	225	Procymidone	98.4			

*PEG共注入標準溶液による絶対検量線を使用 回収率30%未満は ND スタンダードNDは St- 回収率150%以上は