

ホウレン草に添加した各農薬の回収率と再現性

No.	Compound	トランジション		回収率	
		定量イオン	確認イオン	平均(%)	%RSD
1	(E)-Fenpyroximate	422.30>366.20	422.30>135.10	79.9	4.0
2	(E)-Ferimzone	255.30>132.15	255.30>91.10	92.8	11.8
3	(Z)-Fenpyroximate	422.30>366.20	422.30>135.10	94.4	4.5
4	(Z)-Ferimzone	255.30>132.15	255.30>91.10	74.9	1.7
5	1-naphthaleneacetamide	186.10>141.25	186.10>115.20	102.9	6.9
6	2,4-D (2,4-PA)	219.20>161.00	219.20>125.10	166.0	30.7
7	4-Chlorophenoxyacetic acid	185.30>127.10	187.00>129.10	85.0	31.9
8	Acephate	184.00>143.00	184.00>95.00	88.3	3.7
9	Acetamiprid	223.10>126.10	223.10>73.00	103.4	4.0
10	Acibenzolar-S-methyl	210.90>136.10	210.90>91.05	90.7	20.2
11	Acifluorfen	360.00>316.00	360.00>195.10	174.3	39.1
12	Aldicarb	208.20>116.10	208.20>89.10	100.5	22.6
13	Aldicarb-sulfone (Aldoxycarb)	240.20>86.10	240.20>148.10	98.1	6.2
14	Anilofos	368.10>199.05	368.10>125.15	95.5	1.8
15	Aramite	352.25>191.30	352.25>57.25	89.1	7.9
16	Atrazine	216.10>174.10	216.10>96.00	89.4	8.0
17	Azafenidin	338.10>55.20	*	94.7	3.4
18	Azamethiphos	325.05>183.05	325.05>112.05	93.6	4.4
19	Azimsulfuron	425.20>182.15	425.20>139.10	101.9	10.3
20	Azinphos-methyl	318.05>160.25	318.05>132.15	103.3	15.3
21	Azoxystrobin	404.00>372.00	404.00>344.00	96.6	5.5
22	Bendiocarb	224.20>109.10	224.20>167.10	95.2	7.1
23	Bensulfuron-methyl	411.25>149.20	411.10>181.90	97.2	3.3
24	Benthiazole	238.90>180.00	*	64.1	15.2
25	Benzofenap	431.15>105.25	431.15>119.20	97.9	8.3
26	Bitertanol (diastereo isomers)	338.00>99.15	338.00>269.05	96.3	13.9
27	Boscalid	343.10>307.10	343.10>140.05	94.2	13.6
28	Bromacil	261.00>204.90	261.00>188.00	86.1	7.5
29	Bromoxynil	275.90>81.00	275.90>79.00	85.4	16.0
30	Butafenacil	492.10>330.90	492.10>179.90	98.5	1.7
31	Carbaryl (NAC)	202.20>145.10	202.20>127.10	94.2	28.1
32	Carbofuran	222.25>123.10	222.25>165.15	114.9	6.5
33	Carbofuran-3-hydroxy (3-Hydroxycarbofuran)	238.00>181.20	238.00>163.10	35.6	3.6
34	Carboxin	236.10>143.10	236.10>87.00	108.7	15.5
35	Carpropamid	336.10>103.10	336.10>139.10	95.4	16.3
36	Chloridazon	222.15>104.10	222.15>92.10	66.7	10.3
37	Chlorimuron-ethyl	415.10>185.90	415.10>82.90	100.1	14.3
38	Chloroxuron	291.10>72.20	291.10>163.90	93.2	6.2
39	Chlorsulfuron	358.15>141.25	358.15>167.25	76.2	15.6
40	Chromafenozide	395.30>175.15	395.30>339.25	91.1	4.5
41	Cinosulfuron	414.25>183.20	414.25>83.20	99.7	10.3
42	Clodinafop (free acid)	312.00>266.00	312.00>237.90	80.1	39.5
43	Clodinafop (free acid)	310.25>238.15	310.25>218.15	65.8	33.5
44	Clofentezine	303.10>138.05	303.10>102.10	93.3	8.2
45	Clomeprop	324.15>120.25	324.15>203.15	85.0	3.7
46	Cloquintocet-mexyl	336.20>238.10	336.20>192.05	87.4	4.6
47	Cloransulam-methyl	430.00>397.90	430.00>152.90	94.8	11.5
48	Clothianidin	250.10>169.10	250.10>132.05	120.4	7.8
49	Cumyluron	303.20>125.10	303.20>185.10	92.2	5.7
50	Cyanazine	240.80>214.00	240.80>104.00	104.4	13.4

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		定量イオン	確認イオン	平均(%)	%RSD
51	Cyazofamid	325.00>108.10	325.00>261.00	3496.4	4.1
52	Cyclanilide	272.20>160.10	272.20>228.10	98.1	13.5
53	Cycloate	216.25>83.10	216.25>154.15	109.9	47.0
54	Cycloprothrin	499.00>181.10	499.20>208.00	95.3	32.4
55	Cyclosulfamuron	422.10>261.00	422.10>217.90	98.9	2.7
56	Cyflufenamid	413.20>295.15	413.20>241.10	85.9	2.2
57	Cyproconazole	292.00>70.00	292.00>125.00	107.8	38.5
58	Cyprodinil	226.30>93.10	226.30>108.10	78.2	12.0
59	Daimuron (Dymron)	269.25>151.15	269.25>91.10	100.6	8.9
60	Demeton-S-methyl	231.10>89.00	231.10>61.10	132.8	4.2
61	Di-allate	270.10>86.00	270.10>108.95	81.8	14.9
62	Dichlorprop	233.20>161.05	233.20>125.10	176.2	30.0
63	Dichlorvos	237.95>220.95	237.95>109.00	89.2	44.1
64	Dicloran	206.90>175.10	206.90>133.10	118.0	57.0
65	Diclosulam	406.10>161.00	406.10>378.00	95.2	11.8
66	Dicropthos	237.90>112.20	237.90>193.00	100.0	6.6
67	Difenoconazole (isomer)	406.10>250.90	406.10>111.00	131.5	8.4
68	Diflubenzuron	311.10>158.10	311.10>141.05	104.7	12.8
69	Dimethirimol	210.30>71.10	210.30>140.15	99.2	7.5
70	Dimethoate	230.00>125.00	230.00>198.90	88.4	2.0
71	Dimethomorph (E, Z)	388.25>301.15	388.25>165.15	103.5	8.6
72	Diuron (DCMU)	233.10>72.10	233.10>160.00	96.1	12.0
73	Epoxiconazole	330.00>121.10	330.00>101.10	97.2	11.6
74	Ethametsulfuron-methyl	411.25>196.25	411.25>168.25	83.9	6.9
75	Ethoxysulfuron	399.20>261.10	399.20>218.10	98.8	5.6
76	Fenamidone	312.20>236.15	312.20>92.10	99.8	5.2
77	Fenamiphos	304.00>217.10	304.00>202.10	96.9	3.9
78	Fenbuconazole	336.90>125.00	336.90>70.00	96.6	21.3
79	Fenhexamid	302.20>97.15	302.20>55.15	84.0	10.5
80	Fenobucarb	208.25>95.10	208.25>152.10	101.4	8.1
81	Fenoxaprop-ethyl	362.10>287.90	362.10>91.10	101.9	6.8
82	Fenoxycarb	302.10>88.00	302.10>116.20	95.1	3.7
83	Fensulfothion	309.00>281.00	309.00>157.10	91.0	7.7
84	Flazasulfuron	408.15>182.15	408.00>139.00	87.8	2.7
85	Florasulam	360.20>129.10	360.20>109.10	86.4	19.1
86	Fluazifop	328.20>282.15	327.70>254.00	87.8	23.3
87	Fluazifop	326.10>254.10	326.10>206.20	95.5	17.6
88	Flufenacet	364.15>152.20	364.15>194.35	99.7	6.1
89	Flufenoxuron	489.00>158.10	489.00>140.90	12352.6	7.9
90	Flumetsulam	326.15>129.20	326.15>109.20	99.2	4.5
91	Fluridone	330.10>309.00	330.10>259.10	90.0	4.8
92	Fluroxypyr	255.00>208.90	255.00>181.00	84.3	18.6
93	Fluroxypyr	253.20>195.10	253.20>233.00	79.2	44.9
94	Flusilazole	316.00>247.00	316.00>165.00	101.3	13.2
95	Flutriafol (isomer)	302.10>70.10	302.10>123.00	89.5	16.7
96	Fomesafen	437.00>195.10	437.00>222.10	73.6	18.2
97	Foramsulfuron	453.25>182.25	453.10>83.10	105.5	4.5
98	Forchlorfenuron	248.20>93.10	248.20>129.10	114.7	16.6
99	Fosthiazate (isomer)	284.10>227.90	284.10>104.10	99.2	5.8
100	Furametpyr	334.25>157.15	334.25>290.25	95.8	6.7

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		定量イオン	確認イオン	平均(%)	%RSD
101	Furathiocarb	383.25>195.10	383.25>252.15	88.2	4.0
102	Gibberellic acid (Gibberellin)	345.40>143.15	345.40>239.25	51.3	34.4
103	Halosulfuron-methyl	435.00>181.95	435.00>83.10	96.1	8.2
104	Halosulfuron-methyl	433.20>252.10	433.20>154.15	71.5	9.8
105	Haloxypop	362.10>316.00	362.10>91.20	83.9	46.5
106	Hexaconazole	314.10>70.00	314.10>159.00	108.9	16.0
107	Hexaflumuron	458.80>439.00	458.80>175.10	86.0	9.0
108	Hexazinone	253.20>171.20	253.20>71.10	98.9	3.6
109	Hexythiazox	353.25>228.10	353.25>168.25	88.4	3.0
110	Imazalil	297.15>159.05	297.10>200.90	87.3	15.5
111	Imazamethabenz-methyl (isomer)	289.20>144.00	289.20>229.00	100.9	6.2
112	Imazaquin	312.05>267.05	312.05>128.05	85.2	17.6
113	Imazaquin	310.00>223.10	310.00>265.95	92.5	23.6
114	Imazosulfuron	413.00>156.00	413.00>152.95	91.8	11.1
115	Imibenconazole	410.80>125.20	410.80>171.15	114.9	6.6
116	Imidacloprid	256.15>209.15	256.15>175.20	566.2	6.4
117	Indanofan	341.20>175.15	341.20>187.15	129.2	20.2
118	Indoxacarb	528.15>203.10	528.15>150.15	121.7	12.6
119	Iodosulfuron-methyl	508.10>167.15	508.10>56.25	82.4	16.9
120	Ioxynil	370.00>127.00	370.00>215.00	79.6	13.8
121	Iprodione	330.10>245.00	332.10>247.00	133.8	30.0
122	Iprovalicarb	321.35>119.20	321.35>203.20	87.1	6.8
123	Isoprocarb	194.10>95.00	194.10>77.00	96.1	5.0
124	Isoxaflutole	360.15>251.15	360.15>144.10	87.1	28.0
125	Isoxathion-oxon	298.10>242.00	298.10>162.10	91.2	10.6
126	Lactofen	479.20>344.05	479.20>223.05	99.2	2.9
127	Lenacil	234.90>136.00	234.90>153.20	82.2	32.9
128	Linuron	249.10>160.00	249.10>182.10	98.2	12.7
129	Lufenuron	508.90>339.00	508.90>326.00	61.6	19.7
130	Mepanipyrim	224.10>106.10	224.10>77.00	91.6	8.3
131	Mesosulfuron-methyl	504.20>182.15	504.10>83.00	93.5	8.6
132	Methabenzthiazuron	222.20>165.10	222.20>150.05	91.2	5.0
133	Methamidophos	142.20>94.00	142.20>124.90	97.3	2.5
134	Methiocarb	226.25>169.10	226.25>121.10	116.8	22.0
135	Methomyl	163.20>106.05	163.20>88.05	207.6	9.9
136	Methoxyfenozide	369.30>149.10	369.30>91.15	84.2	4.0
137	Metosulam	418.15>175.15	418.15>140.20	88.5	13.5
138	Metsulfuron-methyl	382.00>166.90	382.00>77.10	101.2	4.3
139	Mevinphos	225.10>127.00	225.10>193.00	109.4	9.4
140	Monocrotophos	223.90>127.10	223.90>98.10	84.4	11.4
141	Monolinuron	215.15>126.05	215.15>148.10	108.5	10.8
142	Myclobutanil	289.10>70.10	289.10>125.00	100.7	9.5
143	Naproanilide	292.25>171.25	292.25>120.25	94.5	10.3
144	Naptalam	292.20>144.10	292.20>149.10	71.1	30.2
145	Norflurazon	304.10>284.00	304.10>159.90	109.0	7.8
146	Novaluron	493.10>158.10	493.10>141.05	121.0	11.4
147	Omethoate	214.10>125.00	214.10>183.00	99.2	6.6
148	Oryzalin	347.10>288.00	347.10>305.00	119.4	57.8
149	Oryzalin	345.05>281.00	345.05>77.95	86.6	19.1
150	Oxadixyl	279.20>219.10	279.20>132.10	103.1	6.6

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		定量イオン	確認イオン	平均(%)	%RSD
151	Oxamyl	237.20>72.10	237.20>90.10	90.9	7.0
152	Oxaziclomefone	376.20>190.15	376.20>161.10	79.6	2.4
153	Oxycarboxin	268.15>175.05	268.15>147.00	91.0	4.0
154	Pencycuron	329.10>125.00	329.10>89.00	90.2	4.5
155	Penoxsulam	484.20>195.15	484.00>164.10	87.8	23.3
156	Pentoxazone	371.10>286.00	354.00>286.00	85.6	52.2
157	Phenmedipham	318.20>136.10	318.20>168.10	97.3	10.7
158	Phosphamidon	300.00>174.00	300.00>127.00	89.7	7.2
159	Pirimicarb	239.25>182.20	239.25>72.10	87.9	7.1
160	Primisulfuron-methyl	469.00>254.00	469.00>199.00	108.0	15.3
161	Primisulfuron-methyl	467.00>226.10	467.00>126.20	75.9	19.6
162	Prohydrojasmon	255.10>135.20	255.10>152.90	96.3	18.8
163	Propaquizafop	444.10>70.20	443.80>100.20	80.5	2.9
164	Propoxur	209.90>168.20	209.90>93.10	98.9	14.3
165	Propoxycarbazone-sodium	421.10>180.10	421.10>264.10	258.6	28.6
166	Prosulfuron	419.90>141.00	419.90>167.10	91.6	8.7
167	Prosulfuron	418.10>139.20	418.10>107.20	87.5	21.6
168	Pyraclostrobin	388.20>194.10	388.20>163.10	89.7	4.3
169	Pyrazolynate	439.10>173.00	439.10>91.15	94.4	3.5
170	Pyrazosulfuron-ethyl	415.25>182.25	415.25>139.20	79.7	5.1
171	Pyriftalid	319.10>139.10	319.10>179.10	102.2	6.2
172	Pyroquilon	174.20>132.20	174.20>117.20	125.4	15.8
173	Quinoclamine	208.00>105.10	208.00>77.10	103.2	14.9
174	Quizalofop-ethyl	373.10>298.90	373.10>91.10	99.5	3.7
175	Silafluofen	426.30>287.15	426.30>168.10	22.9	22.8
176	Simazine	202.10>104.00	202.10>96.20	99.2	24.0
177	Simeconazole	294.20>70.10	294.20>135.10	107.6	8.4
178	Simetryn	214.10>124.00	214.10>144.00	95.3	7.2
179	Spinosyn A	732.60>142.20	732.60>98.25	78.3	5.8
180	Spinosyn D	746.60>142.20	746.60>98.25	79.3	8.4
181	Spiroxamine	298.20>144.20	298.20>100.20	99.1	5.0
182	Sulfosulfuron	471.15>211.25	471.15>261.20	86.4	14.2
183	Tebufenozide	353.35>133.20	353.35>297.35	81.6	6.2
184	Tebuthiuron	229.25>172.15	229.25>116.10	99.3	11.7
185	Teflubenzuron	381.05>158.00	381.05>141.00	115.0	11.7
186	Teflubenzuron	378.80>339.00	378.80>359.00	81.0	9.2
187	Tetrachlorvinphos (CVMP)	366.95>127.15	366.95>206.00	111.6	2.8
188	Tetraconazole	372.00>159.00	372.00>70.10	92.4	1.5
189	Thiabendazole	202.20>175.10	202.20>131.15	106.4	13.1
190	Thiacloprid	253.00>126.10	253.00>90.10	97.1	4.7
191	Thiamethoxam	292.00>211.10	292.00>181.10	77.7	11.6
192	Thidiazuron	221.00>102.00	221.00>128.00	94.5	11.7
193	Thifensulfuron-methyl	388.00>167.20	388.00>126.00	88.9	6.4
194	Thifluzamide	528.60>148.10	528.60>488.80	91.0	14.2
195	Thiodicarb	355.00>88.00	355.00>108.10	39.2	11.2
196	Tolfenpyrad	384.00>197.10	384.00>154.00	110.1	8.4
197	Tralkoxydim	330.30>284.20	330.30>138.10	78.5	5.6
198	Triadimenol (isomer)	296.10>70.10	296.10>99.20	111.1	23.8
199	Triasulfuron	402.15>167.20	402.15>141.20	96.0	17.6
200	Tribenuron-methyl	396.10>155.00	396.10>181.00	71.2	6.9

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201	Tricyclazole	190.20>109.00	190.00>136.00	129.1	23.2
202	Tridemorph (isomer)	298.30>130.20	298.30>98.20	74.3	27.0
203	Trifloxysulfuron	438.15>182.15	438.00>257.00	89.8	3.4
204	Triflumuron	359.10>156.05	359.10>139.05	106.0	8.2
205	Triflusulfuron-methyl	493.00>264.00	493.00>96.10	106.5	4.6
206	Triticonazole	318.20>70.10	318.20>125.10	96.7	4.6
207	XMC (3,5-xyllyl methylcarbamate)	180.10>123.10	180.10>108.00	115.9	7.2