Electronic Supplementary Material (ESI) for Analytical Methods.

Supplementary Table 1. Pesticide classification, retention time (RT), dynamic multiple reaction monitoring (dMRM) transitions and collision energy (CE) of analyzed target compounds. Quantifier transitions are marked in bold.

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
2,4-D-ethyl ester	Herbicide	7.49	**247.9 → 185.0**	10
			185.0 → 114.9	25
			175.0 → 111.0	10
2-Phenylphenol	Microbiocide	6.25	169.1 → 91.0	35
			141.1 → 63.0	45
			115.1 → 65.0	25
8-Hydroxyquinoline	Fungicide, Microbiocide	5.38	145.0 → 63.0	40
			117.0 → 63.0	40
			117.0 → 39.1	40
Acequinocyl	Insecticide	16.77	342.9 → 188.8	20
			341.9 → 187.9	15
			187.9 → 131.0	20
Acetamiprid	Insecticide	13.85	221.0 → 56.1	15
			126.0 → 90.0	5
			126.0 → 72.9	20
Acibenzolar-S-methyl	Fungicide	9.30	182.0 → 167.1	10
			182.0 → 153.1	10
			182.0 → 135.0	15
Aclonifen	Herbicide	12.39	264.1 → 194.2	15
			194.1 → 167.1	20
			194.1 → 139.1	25
Acrinathrin	Insecticide	15.02	**288.9 → 92.8**	10
			207.8 → 152.0	35
			181.0 → 127.0	30
Aldrin	Insecticide	9.94	**262.9 → 192.9**	35
			262.9 → 190.9	35
			254.9 → 220.0	20
Ametoctradin	Fungicide	15.20	275.0 → 246.2	0
			275.0 → 190.3	15
			246.0 → 188.2	25
Amisulbrom	Fungicide	16.14	227.9 → 147.0	15
			225.9 → 147.0	15
			214.0 → 160.0	20
Azoxystrobin	Fungicide	18.30	344.1 → 182.9	25
			344.1 → 171.9	40
			344.1 → 155.8	40
Beflubutamid	Herbicide	10.67	192.9 → 145.1	15
			192.9 → 95.0	35
			176.1 → 79.1	25
Benalaxyl	Fungicide	12.87	266.0 → 148.1	5
			233.9 → 146.0	20
			206.0 → 162.1	5
Bentazone	Herbicide	10.11	**225.0 → 181.9**	5
			198.0 → 92.0	30
			182.0 → 90.0	15
Benthiavalicarb-isopropyl	Fungicide	14.57	222.0 → 125.9	40
			180.0 → 127.0	20
			180.0 → 83.0	30
Bifenazate	Insecticide	13.94	258.0 → 170.1	20
			199.0 → 77.0	40
			196.0 → 115.1	5
Bifenox	Herbicide	14.21	340.9 → 309.9	10
			340.9 → 280.9	15
			189.1 → 126.0	20

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Bifenthrin	Insecticide	13.83	**181.0 → 115.1**	45
			166.0 → 139.1	35
			166.0 → 115.1	35
Boscalid	Fungicide	16.50	140.0 → 112.0	10
			140.0 → 76.0	25
			111.9 → 76.0	15
Bromoxynil	Herbicide	7.41	276.8 → 88.0	30
			274.7 → 167.9	15
			274.7 → 88.0	30
Bromuconazole (2 isomers)	Fungicide	13.85	295.0 → 172.9	10
		14.29	**293.0 → 172.9**	10
			173.0 → 109.0	30
Bupirimate	Fungicide	11.80	**315.8 → 207.9**	10
			208.0 → 68.9	30
			193.0 → 109.0	15
Buprofezin	Insecticide	11.74	**304.9 → 175.0**	10
			249.1 → 193.0	10
			171.1 → 115.0	10
Captan	Fungicide	10.73	**263.8 → 79.0**	15
			149.0 → 70.0	15
			116.9 → 82.0	30
Carbetamide	Herbicide	9.95	120.1 → 77.0	25
			119.1→ 64.1	15
			91.0 → 64.1	10
Carboxin	Fungicide	11.75	**234.9 → 143.0**	10
			234.9 → 87.0	20
			131.9 → 77.0	20

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Carfentrazone-ethyl	Herbicide	12.81	**339.9 → 311.9**	10
			329.9 → 309.9	10
			311.9 → 150.8	20
cis-Chlordane	Insecticide	11.20	374.8 → 265.8	15
			372.8 → 265.8	15
			271.7 → 236.9	15
trans-Chlordane	Insecticide	10.94	374.8 → 265.8	15
			372.8 → 265.8	15
			271.7 → 236.9	15
Chloridazon (Pyrazon)	Herbicide	13.04	221.0 → 220.2	5
			220.0 → 193.1	20
			220.0 → 166.0	25
Chlorothalonil	Fungicide	8.54	265.9 → 230.9	20
			265.9 → 133.0	45
			265.9 → 109.0	45
Chlorotoluron	Herbicide	9.70	**212.1 → 166.0**	10
			212.1 → 72.0	15
			167.0 → 132.1	15
Chlorpropham	Herbicide, Plant growth regulator	7.11	**213.0 → 171.1**	5
			171.0 → 127.1	5
			153.0 → 90.0	25
Chlorpyrifos	Insecticide	9.86	313.8 → 257.8	15
			196.9 → 107.0	40
			196.9 → 98.0	30
Chlorpyrifos -methyl	Insecticide	9.14	287.9 → 92.9	20
			285.9 → 93.0	25
			124.9 → 47.0	15

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Clodinafop-propargyl	Plant growth regulator	12.97	348.9 → 265.9 **348.9 → 237.8** 238.0 → 130.0	10 15 15
Clomazone	Herbicide	7.98	**205.1 → 107.1** 127.0 → 101.0 125.0 → 89.0	20 20 15
Cloquintocet-mexyl	Herbicide safener	14.00	220.0 → 191.9 **163.0 → 128.0** 163.0 → 101.0	10 15 30
Cyflufenamid	Fungicide	11.88	188.1 → 88.0 **118.1 → 90.0** 118.1 → 89.0	35 10 25
Cyfluthrin (3 isomers)	Insecticide	16.17 16.25 16.37	206.0 → 176.9 206.0 → 150.0 **162.9 → 127.0**	25 40 5
Cyhalofop-butyl	Herbicide	14.68	**357.1 → 229.1** 256.2 → 120.1 229.2 → 109.1	15 10 15
Cyhalothrin (*gamma* and *lambda* isomer)	Insecticide	14.79 14.60	**208.0 → 181.0** 208.0 → 152.0 197.0 → 161.1	5 25 5
Cypermethrin (3 isomers)	Insecticide	16.39 16.48 16.57	165.0 → 127.1 165.0 → 91.1 **162.9 → 127.0**	0 10 0
Cyproconazole	Fungicide	11.99	**222.0 → 124.9** 138.9 → 111.0 138.9 → 75.0	25 15 35

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Cyprodinil	Fungicide	10.39	225.2 → 224.3 **224.2 → 131.1** 210.0 → 93.0	10 15 20
Cyromazine	Insecticide	7.97	**165.9 → 109.0** 151.0 → 82.0 109.0 → 68.0	20 30 20
o,p'-DDD	Insecticide, Metabolite	11.78	235.0 → 200.1 235.0 → 139.1 **199.1 → 164.1**	10 45 20
p,p'-DDD	Insecticide, Metabolite	12.36	237.0 → 200.1 **199.1 → 164.1** 165.1 → 139.0	15 20 35
o,p'-DDE	Metabolite	10.98	317.8 → 248.0 248.0 → 176.2 **246.0 → 176.2**	15 30 30
p,p'-DDE	Metabolite	11.52	317.8 → 246.0 315.8 → 246.0 **246.1 → 176.2**	15 15 30
o,p'-DDT	Insecticide	12.27	237.0 → 199.1 **235.0 → 199.1** 199.0 → 163.1	15 15 35
p,p'-DDT	Insecticide	12.94	237.0 → 165.2 235.0 → 199.2 **235.0 → 165.2**	20 15 20
Deltamethrin	Insecticide	18.02	252.9 → 174.0 **252.9 → 93.1** 251.0 → 172.0	0 15 0

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Desmedipham	Herbicide	7.67	**135.0 → 79.0** 122.0 → 94.0 122.0 → 65.0	10 25 10
Diazinon	Insecticide	8.29	276.0 → 137.1 **199.1 → 135.1** 179.1 → 137.1	25 10 20
Dicamba-methyl ester	Herbicide	6.26	234.0 → 173.0 **205.0 → 149.0** 175.0 → 111.0	20 15 20
Diclofop-methyl	Herbicide	13.26	339.9 → 252.9 **280.8 → 119.9** 253.0 → 162.1	10 10 15
Dieldrin	Insecticide	11.62	**262.9 → 193.0** 262.9 → 191.0 247.0 → 241.0	5 35 35
Diethofencarb	Fungicide	9.76	225.0 → 96.0 **207.0 → 179.1** 207.0 → 151.0	30 5 15
Difenoconazole (2 isomers)	Fungicide	17.72 17.78	324.8 → 266.8 **322.8 → 264.8** 264.9 → 202.0	15 15 20
Diflubenzuron	Insecticide	5.00	141.0 → 113.0 **141.0 → 63.0** 113.0 → 63.0	25 25 25
Diflufenican	Herbicide	13.29	**393.9 → 265.9** 266.0 → 246.1 218.0 → 140.1	10 15 20

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Dimethachlor	Herbicide	8.99	209.9 → 134.1 **196.9 → 148.2** 134.1 → 79.1	10 10 20
Dimethenamide-P	Herbicide	9.02	229.9 → 154.0 **229.9 → 111.0** 202.9 → 154.0	10 25 10
Dimethoate	Insecticide	7.79	227.7 → 87.0 **157.0 → 93.0** **157.0** → 63.0	5 10 25
Dimethomorph (2 isomers)	Fungicide	18.35 18.66	302.9 → 164.9 **300.9 → 165.0** 300.9 → 138.8	10 10 15
Dimoxystrobin	Fungicide	13.85	237.0 → 116.0 **205.0 → 116.0** 174.0 → 115.0	15 10 30
Diuron	Herbicide	10.66	231.7 → 71.8 **186.9 → 124.0** 158.9 → 123.9	15 20 10
Dodemorph (2 isomers)	Fungicide	10.24 10.55	**281.0 → 154.0** 238.1 → 55.1 154.0 → 112.1	10 20 10
Epoxiconazole	Fungicide	13.52	**192.0 → 138.1** 192.0 → 111.0 138.0 → 75.0	10 25 25
Ethofenprox	Insecticide	16.78	183.0 → 168.0 163.0 → 135.1 **163.0 → 107.1**	10 10 20

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Ethofumesate	Herbicide	9.61	285.9 → 207.1 **178.9 → 137.1** 178.9 → 105.1	5 0 15
Ethoprophos	Insecticide	7.02	199.9 → 97.0 **157.9 → 97.0** 157.9 → 81.0	20 15 15
Etoxazole	Insecticide	14.07	329.9 → 315.0 299.9 → 284.9 **299.9 → 269.9**	20 10 20
Etridiazole	Fungicide	5.85	211.1 → 183.0 211.1 → 140.0 **185.0 → 142.0**	10 25 15
Famoxadone	Fungicide	18.44	329.9 → 329.0 **329.9 → 223.9** 223.9 → 196.2	10 10 10
Fenamiphos	Insecticide	11.31	302.9 → 287.9 302.9 → 153.9 **287.9 → 259.7**	10 15 5
Fenazaquin	Insecticide	14.05	160.0 → 145.2 146.0 → 118.1 **145.0 → 117.1**	5 10 20
Fenbuconazole	Fungicide	16.21	197.9 → 129.0 197.9 → 102.0 **125.0 → 89.0**	5 30 20
Fenhexamid	Fungicide	12.97	301.0 → 97.0 179.0 → 115.0 **177.1 → 113.0**	15 15 15
Fenoxaprop-P-ethyl	Herbicide	15.33	360.8 → 287.8 **287.8 → 118.8** 287.8 → 90.9	10 10 20
Fenoxycarb	Insecticide	13.86	256.1 → 187.2 **186.2 → 109.0** 186.2 → 77.1	10 15 20
Fenpropidin	Fungicide	9.45	**273.0 → 98.0** 117.0 → 91.0 98.0 → 55.1	5 25 10
Fenpropimorph	Fungicide	9.81	128.1 → 110.1 128.1 → 86.1 **128.1 → 70.1**	5 10 10
Fenpyroximate	Insecticide	7.85	212.0 → 185.0 **212.0 → 76.9** 198.1 → 114.0	40 40 35
Fenvalerate (2 isomers)	Insecticide	17.31 17.50	419.1 → 166.8 **167.0 → 125.1** 167.0 → 89.0	10 10 40
Fipronil	Insecticide	10.64	**366.8 → 212.8** 350.8 → 254.8 254.9 → 228.0	25 15 15
Fipronil sulfide	Metabolite	10.50	420.0 → 350.9 **351.0 → 254.9** 254.9 → 156.9	10 20 35
Fipronil sulfone	Metabolite	11.71	384.8 → 256.8 **382.8 → 254.9** 254.9 → 227.9	20 20 15

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Fluazifop-P-butyl	Herbicide	11.97	382.9 → 282.0 **281.9 → 238.0** 281.9 → 91.0	10 15 15
Fludioxonil	Fungicide	11.51	248.0 → 182.1 248.0 → 154.1 **248.0 → 127.1**	10 20 30
Flufenacet	Herbicide	9.96	211.0 → 123.0 **211.0 → 96.0** 183.0 → 69.0	5 15 20
Flumetralin	Herbicide	11.19	403.9 → 156.8 359.9 → 313.9 **157.0 → 109.0**	15 15 25
Flumioxazin	Herbicide	17.43	354.0 → 325.9 354.0 → 175.8 **287.0 → 258.7**	5 15 15
Fluometuron	Herbicide	6.98	232.0 → 72.0 **213.0 → 167.9** 187.0 → 109.0	15 10 20
Fluopyram	Fungicide	10.57	395.9 → 223.1 **222.9 → 196.0** 222.9 → 187.1	5 10 10
Fluorochloridone	Herbicide	10.11	311.0 → 174.1 **311.0 → 102.9** 187.1 → 109.1	15 15 20
Flupyradifurone	Insecticide	14.87	288.0 → 126.1 128.0 → 90.0 **126.0 → 73.0**	15 10 25

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Fluquinconazole	Fungicide	15.85	342.0 → 107.8 **340.0 → 298.0** 340.0 → 107.8	40 15 40
Fluroxypyr-meptyl	Herbicide	13.29	237.0 → 209.0 **237.0 → 181.0** 208.9 → 178.9	5 15 20
Flurtamone	Herbicide	14.43	**332.7 → 120.0** 157.0 → 137.1 157.0 → 107.0	15 15 25
Flutolanil	Herbicide	11.38	322.9 → 281.0 **280.9 → 173.0** 173.0 → 95.0	5 10 30
Flutriafol	Fungicide	11.30	**219.1 → 123.1** 219.1 → 95.0 164.1 → 109.1	15 35 20
tau-Fluvalinate (2 isomers)	Insecticide	17.48 17.52	252.0 → 200.0 **250.0 → 200.1** 250.0 → 198.1	15 15 40
Fluxapyroxad	Fungicide	14.57	**321.1 → 152.9** 222.0 → 152.9 222.0 → 125.9	35 15 40
Fosthiazate (2 isomers)	Nematicide	10.27 10.31	**199.0 → 102.0** 195.0 → 60.0 165.9 → 106.0	5 20 10
Fuberidazole	Fungicide	9.16	184.0 → 155.1 **156.0 → 103.1** 155.0 → 129.1	30 20 10

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Haloxyfop-P-methyl	Herbicide	10.93	375.1 → 316.0 **375.1 → 91.1** 288.0 → 180.0	10 35 25
alpha-HCH	Insecticide	7.64	218.9 → 183.0 **216.9 → 181.0** 180.9 → 145.0	5 5 15
beta-HCH	Insecticide	7.99	218.9 → 183.1 **216.9 → 181.1** 181.0 → 145.0	5 5 15
gamma-HCH (Lindane)	Insecticide	8.08	218.9 → 183.1 **216.9 → 181.0** 181.0 → 145.0	5 5 15
delta-HCH	Insecticide	8.51	**217.0 → 181.1** 183.1 → 147.1 181.1 → 145.1	5 15 15
epsilon-HCH	Insecticide	8.69	254.0 → 180.9 218.9 → 182.9 **182.9 → 109.0**	10 5 30
Heptachlor	Insecticide	9.34	273.7 → 238.9 273.7 → 236.9 **271.7 → 236.9**	15 15 15
Heptachlor endo-epoxide	Metabolite	10.67	216.9 → 182.0 216.9 → 109.0 **183.0 → 119.0**	20 45 30
Heptachlor exo-epoxide	Metabolite	10.61	**354.8 → 264.9** 352.8 → 262.9 262.9 → 193.0	15 15 35

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Hexachloro-benzene	Fungicide	7.70	**283.8 → 213.9** 281.8 → 211.9 248.9 → 179.0	30 30 30
Imazalil	Fungicide	11.48	216.8 → 175.0 174.9 → 147.0 **172.9 → 109.0**	5 15 30
Imidacloprid	Insecticide	11.31	**211.0 → 113.0** 126.0 → 89.9 126.0 → 73.0	15 5 25
Indoxacarb	Insecticide	18.02	**264.0 → 175.8** 202.9 → 134.0 202.9 → 106.0	15 20 15
Ipconazole	Fungicide	15.00	249.0 → 125.0 167.0 → 125.0 **125.0 → 89.0**	15 5 20
Iprovalicarb (2 isomers)	Fungicide	11.61 11.78	158.0 → 98.0 **143.1 → 93.0** 116.0 → 98.1	10 15 5
Isopyrazam	Fungicide	15.30	359.0 → 159.0 **302.1 → 262.1** 159.0 → 139.0	40 15 10
Isoxaben	Herbicide	15.17	165.0 → 150.0 165.0 → 107.0 **149.9 → 121.9**	15 25 5
Kresoxim-methyl	Fungicide	11.81	206.0 → 131.1 **206.0 → 116.0** 116.0 → 89.0	10 5 15

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Lenacil	Herbicide	12.95	233.9 → 153.1 153.1 → 110.1 **153.1 → 82.1**	5 20 20
Lufenuron	Insecticide	5.58	251.6 → 157.8 **202.9 → 75.9** 173.9 → 109.9	15 40 30
Malathion	Insecticide	9.73	172.9 → 117.0 **172.9 → 99.0** 157.8 → 125.0	15 10 5
MCPA-methyl ester	Herbicide	6.51	214.1 → 155.1 214.1 → 141.1 **155.1 → 125.1**	10 10 10
MCPB-methyl ester	Herbicide	8.17	211.1 → 155.0 142.1 → 107.1 **142.1 → 77.1**	10 10 30
Mefenpyr-diethyl	Herbicide safener	13.59	**299.0 → 252.9** 253.0 → 190.0 253.0 → 189.0	10 20 30
Mepanipyrim	Fungicide	11.16	222.2 → 158.1 221.2 → 220.2 **207.1 → 179.1**	25 15 25
Metalaxyl	Fungicide	9.33	234.0 → 146.1 **220.0 → 160.1** 206.1 → 162.1	20 10 5
Metamitron	Herbicide	11.83	202.1 → 186.1 **104.1 → 51.0** 104.1 → 77.0	10 15 5

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Metazachlor	Herbicide	10.45	209.0 → 133.2 **209.0 → 132.2** 209.0 → 117.1	10 15 35
Metconazole	Fungicide	14.22	153.1 → 125.0 153.1 → 70.0 **125.0 → 89.0**	10 5 20
Methiocarb	Insecticide	9.58	169.0 → 154.1 168.0 → 109.1 **153.0 → 91.1**	10 15 20
Metobromuron	Herbicide	8.79	258.0 → 61.0 **196.9 → 89.9** 169.9 → 142.9	10 25 20
(S)-Metolachlor	Herbicide	9.89	238.0 → 162.2 **238.0 → 133.2** 162.1 → 133.2	10 30 15
Metrafenone	Fungicide	15.24	**394.8 → 364.8** 376.9 → 346.8 226.9 → 169.0	15 20 10
Metribuzin	Herbicide	9.00	**198.0 → 82.0** 198.0 → 55.0 182.0 → 114.9	15 30 10
Myclobutanil	Fungicide	11.68	**179.0 → 125.1** 179.0 → 90.0 150.0 → 123.0	10 30 15
Napropamide	Herbicide	11.40	**271.0 → 100.1** 271.0 → 72.1 128.0 → 100.1	15 15 10

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Oryzalin	Herbicide	15.51	316.8 → 274.9 **275.0 → 217.0** 258.0 → 193.9	5 5 5
Oxadiazon	Herbicide	11.63	**301.8 → 175.0** 257.8 → 112.0 174.9 → 112.0	15 30 15
Oxamyl	Insecticide, Nematicide	6.30	162.0 → 114.9 145.0 → 71.9 **145.0 → 60.9**	10 20 10
Oxychlordane	Metabolite	10.53	386.7 → 262.7 236.9 → 142.9 **184.9 → 121.0**	15 25 15
Oxyfluorfen	Herbicide	11.71	299.9 → 222.8 252.0 → 196.0 **252.0 → 146.0**	15 20 30
Paclobutrazol	Plant growth regulator	11.09	236.0 → 167.1 **167.1 → 132.1** 125.1 → 89.0	10 10 20
Parathion	Insecticide	9.97	**291.0 → 137.1** 291.0 → 109.0 139.0 → 81.0	5 15 15
Parathion-methyl	Insecticide, Nematicide	9.14	262.9 → 109.0 262.9 → 79.0 **109.0 → 79.0**	10 30 5
PCB 28	Pollutant	9.04	**258.0 → 186.0** 256.0 → 186.0 186.0 → 151.0	25 25 25
PCB 52	Pollutant	9.61	291.9 → 221.9 **289.9 → 219.9** 255.0 → 220.0	25 25 10
PCB 101	Pollutant	11.12	325.9 → 255.9 325.9 → 253.9 **253.9 → 184.0**	35 30 30
PCB 138	Pollutant	13.12	**361.9 → 289.9** 359.9 → 289.9 287.9 → 217.9	30 30 40
PCB 153	Pollutant	12.62	361.9 → 289.9 **359.9 → 289.9** 287.9 → 217.9	25 25 40
PCB 180	Pollutant	14.30	395.8 → 325.8 393.8 → 358.8 **393.8 → 323.8**	30 15 30
Penconazole	Fungicide	10.54	250.0 → 194.1 **250.0 → 157.1** 159.0 → 123.0	15 25 20
Pendimethalin	Herbicide	10.52	**251.8 → 162.2** 251.8 → 146.1 161.9 → 147.0	10 20 10
Pentachloro-nitrobenzene	Fungicide, Nematicide	8.20	294.8 → 236.8 248.8 → 213.8 **141.9 → 106.9**	15 15 30
Permethrin (*cis* and *trans* isomer)	Insecticide	15.51 15.63	165.0 → 127.0 **162.9 → 127.0** 162.9 → 91.0	0 0 10

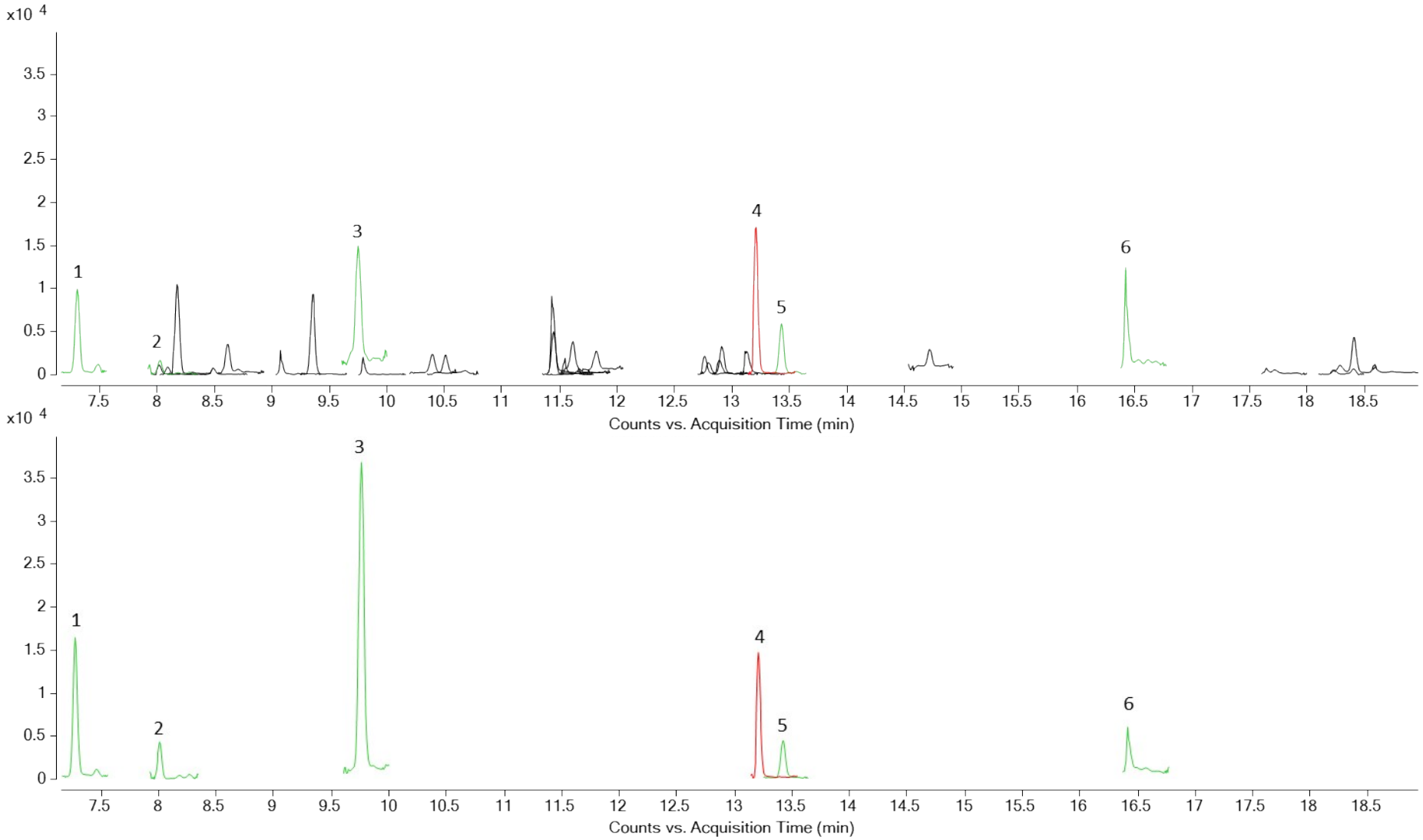
Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Phenmedipham	Herbicide	7.08	**167.0 → 135.0** 167.0 → 122.0 122.0 → 94.0	15 15 15
Phosmet	Insecticide	13.90	301.0 → 191.8 172.9 → 104.0 **160.0 → 133.0**	10 15 15
Phosmet-oxon	Metabolite	13.00	**301.0 → 191.8** 172.9 → 104.0 160.0 → 133.0	10 15 15
Picloram-methyl ester	Herbicide	9.55	**198.0 → 163.1** 198.0 → 161.0 196.0 → 181.0	15 15 15
Picolinafen	Herbicide	13.87	376.0 → 239.1 **376.0 → 238.1** 238.1 → 145.1	10 20 25
Picoxystrobin	Fungicide	11.29	**334.9 → 172.9** 302.8 → 156.9 145.0 → 102.1	10 15 25
Pirimicarb	Insecticide	8.73	**238.0 → 166.2** 166.0 → 71.1 166.0 → 55.1	10 25 10
Pirimiphos-methyl	Insecticide	9.58	290.0 → 125.0 **232.9 → 151.0** 232.9 → 125.0	20 5 5
Prochloraz	Fungicide	15.91	310.0 → 69.8 **266.0 → 69.9** 180.0 → 68.9	15 10 15

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Propamocarb	Fungicide	5.39	188.0 → 58.0 **143.0 → 99.1** 129.1 → 84.1	10 10 5
Propaquizafop	Herbicide	19.92	298.8 → 254.8 **162.9 → 135.8** 162.9 → 99.9	25 10 20
Propiconazole (2 isomers)	Fungicide	12.89 13.00	258.8 → 172.9 172.9 → 109.0 **172.9 → 74.0**	15 30 45
Propyzamide	Herbicide	8.06	173.0 → 145.0 173.0 → 109.0 **173.0 → 74.0**	25 25 25
Prosulfocarb	Herbicide	9.37	251.0 → 218.3 **251.0 → 128.2** 251.0 → 100.1	10 5 5
Prothioconazole-desthio	Fungicide	11.91	**186.0 → 89.0** 186.0 → 70.0 125.0 → 99.0	10 10 20
Pymetrozine	Insecticide	11.51	**132.0 → 105.0** 132.0 → 78.0 113.0 → 98.0	10 20 5
Pyraclostrobin	Fungicide	17.46	**324.8 → 131.7** 164.0 → 132.1 110.8 → 75.0	15 10 15
Pyraflufen-ethyl	Herbicide	13.03	412.0 → 349.0 349.0 → 307.0 **338.9 → 288.9**	10 15 15

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Pyridaben	Insecticide	15.77	**309.0 → 147.1**	15
			147.2 → 132.2	10
			147.2 → 117.1	20
Pyridalyl	Insecticide	16.73	204.0 → 148.0	25
			164.0 → 146.0	15
			146.0 → 126.0	10
Pyrimethanil	Fungicide	8.24	198.0 → 183.1	15
			198.0 → 158.1	20
			198.0 → 118.1	35
Pyriproxyfen	Insecticide	14.61	**321.0 → 222.0**	10
			321.0 → 153.0	25
			136.1 → 96.0	15
Quinoclamine	Herbicide	9.76	209.0 → 172.1	10
			207.0 → 172.1	20
			172.0 → 89.0	20
Quinoxyfen	Fungicide	12.85	306.8 → 237.0	20
			271.9 → 237.1	10
			237.0 → 208.0	30
Spirodiclofen	Insecticide	15.56	312.1 → 259.0	10
			312.1 → 108.9	15
			157.0 → 73.0	25
Spiromesifen	Insecticide	13.71	272.0 → 209.2	10
			253.8 → 185.1	15
			231.0 → 157.1	15
Spiroxamine (2 Isomers)	Fungicide	9.08	**198 → 126.1**	5
		9.53	126.0 → 84.0	5
			100.0 → 58.0	10

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Tebuconazole	Fungicide	13.22	**250.0 → 125.0**	20
			125.0 → 99.0	20
			125.0 → 89.0	15
Tebufenpyrad	Insecticide	14.09	332.9 → 171.0	15
			318.0 → 131.0	15
			275.9 → 171.1	10
Tefluthrin	Insecticide	8.41	199.0 → 161.1	5
			197.0 → 161.1	5
			177.1 → 127.1	15
Terbuthylazine	Herbicide, Microbiocide	8.12	228.9 → 138.0	15
			214.0 → 104.0	20
			214.0 → 71.0	5
Terbuthylazine-desethyl	Herbicide, Microbiocide	7.36	186.2 → 104.0	15
			186.2 → 83.1	20
			145.1 → 68.1	10
Tetraconazole	Fungicide	9.99	336.0 → 217.9	20
			336.0 → 203.8	30
			170.9 → 136.0	10
Thiabendazole	Fungicide	10.73	**201.9 → 175.0**	15
			201.0 → 130.0	30
			173.9 → 65.0	30
Thiacloprid	Insecticide	17.20	126.0 → 99.1	10
			126.0 → 90.1	5
			126.0 → 73.0	20
Tolclofos-methyl	Fungicide	9.14	**267.0 → 252.0**	15
			267.0 → 93.0	30
			267.0 → 63.0	45

Name	Pesticide classification	RT [min]	dMRM Transitions	CE [eV]
Tralkoxydim	Herbicide	14.75	282.1 → 226.0	10
			268.2 → 143.0	40
			226.0 → 143.0	25
Triadimenol	Fungicide	10.73	**129.9 → 102.0**	15
			129.9 → 65.0	25
			112.0 → 58.0	10
Triallate	Herbicide	8.57	**270.0 → 228.1**	10
			268.0 → 226.1	10
			268.0 → 184.1	20
Triclopyr-methyl ester	Herbicide	7.51	**209.9 → 145.9**	20
			209.9 → 109.9	35
			145.9 → 110.0	15
Trifloxystrobin	Fungicide	12.94	186.0 → 145.1	15
			172.0 → 145.1	15
			172.0 → 95.0	30
Triflumizole	Fungicide	10.81	345.0 → 302.0	10
			239.1 → 66.9	40
			132.0 → 90.0	35
Trinexapac-ethyl	Herbicide	9.50	**224.0 → 151.0**	5
			224.0 → 95.0	25
			207.0 → 68.9	25
Triticonazole	Fungicide	14.51	237.0 → 182.0	10
			237.0 → 167.1	25
			234.8 → 182.1	10
Warfarin	Rodenticide	15.44	308.0 → 187.0	20
			265.0 → 187.0	5
			265.0 → 121.0	15
Zoxamide	Fungicide	13.47	259.9 → 189.0	10
			257.9 → 187.1	10
			189.0 → 161.1	15



Supplementary Figure 1. Chromatograms of a matrix matched calibration standard (LOQ concentration, top) and the beech sample from Belauer See, 2011 (bottom). 1 = Terbuthylazine-desethyl, 2 = terbuthylazine, 3 = fenpropimorph, 4 = triphenyl phosphate (ISTD), 5 = epoxiconazole, 6 = boscalid.