Table 1 – Parameters related to active compounds analysed by GC-MS/MS

Active compund	Ret Time (min)	Parent ion (M/Z)	Product ion (M/Z)	Collision Energy (eV)	Time Window (min)
Allidochlor	7.4	132	56	6	2
Allidochlor	7.4	138	81	8	2
Allidochlor	7.4	138	96	8	2
Dichloroaniline. 3.4'-	9.75	161	99	21	2
Dichloroaniline. 3.4'-	9.75	161	126	8	2
Dichloroaniline. 3.4'-	9.75	163	90	16	2
Pebulate	9.94	128	57	8	2
Pebulate	9.94	161	128	6	2
Pebulate	9.94	203	128.1	8	2
Methacrifos	10.5	125	79	6	2
Methacrifos	10.5	180	93	8	2
Methacrifos	10.5	240	180	10	2
Chloroneb	10.72	191	113	13	2
Chloroneb	10.72	191	141	10	2
Tetrahydrophthalimide	10.73	151	77	32	2
Tetrahydrophthalimide	10.73	151	80	6	2
Tetrahydrophthalimide	10.73	151	122	10	2
Pentachlorobenzene	10.9	250	142	30	2
Pentachlorobenzene	10.9	250	179	30	2
Pentachlorobenzene	10.9	250	215	20	2
2-Phenylphenol	10.95	141	115	12	2
2-Phenylphenol	10.95	170	115	34	2
2-Phenylphenol	10.95	170	141	22	2n
Tecnazene	11.91	215	144	22	2
Tecnazene	11.91	215	179	8	2
Tecnazene	11.91	261	203	13	2
Propachlor	12.11	120	77	19	2
Propachlor	12.11	120	92	8	2
Propachlor	12.11	176	57	8	2
Tetrachloroaniline. 2.3.5.6-	12.45	231	122	30	2
Tetrachloroaniline. 2.3.5.6-	12.45	231	158	20	2
Tetrachloroaniline. 2.3.5.6-	12.45	231	160	22	2
Diphenylamine	12.46	167	166	17	2
Diphenylamine	12.46	169	167	25	2
Diphenylamine	12.46	169	168	12	2
Ethalfluralin	12.46	276	202	15	2
Ethalfluralin	12.46	316	202	26	2
Ethalfluralin	12.46	316	276	10	2
Cycloate	12.49	154	83	8	2
Cycloate	12.49	215	83	30	2
Cycloate	12.49	215	154	12	2
Trifluralin	12.66	306	160	23	2
Trifluralin	12.66	306	206	12	2
Trifluralin	12.66	306	264	8	2
Benfluralin	12.74	292	160	20	2
Benfluralin	12.74	292	206	12	2
Benfluralin	12.74	292	264	8	2
Chlorpropham	12.8	127	65	22	2
Chlorpropham	12.8	171	127	8	2
Chlorpropham	12.8	213	171	8	2
Sulfotep	12.87	202	146	10	2
Sulfotep	12.87	322	146.1	23	2
Sulfotep	12.87	322	202	10	2
Phorate	13.24	121	65	10	2
Phorate	13.24	121	93	6	2
Phorate	13.24	260	75	8	2
BHC. alpha-	13.47	181	145	13	2
BHC. alpha-	13.47	217	145	18	2
BHC. alpha-	13.47	219	183	8	2
Hexachlorobenzene	13.47	249	214.1	14	2
Hexachlorobenzene	13.47	284	214	30	2
Hexachlorobenzene	13.47	284	249	18	2
Profluralin	14.03	318	199	17	2
Profluralin	14.03	318	264	8	2
Profluralin	14.03	330	69	25	2
Quintozene	14.1	235	141	26	2
Quintozene	14.1	237	119	22	2
Quintozene	14.1	295	237	15	2
Clomazone	14.11	125	89	13	2
Clomazone	14.11	125	99	17	2

Clomazone	**14.11**	**204**	**107**	**18**	**2**
BHC. beta-	**14.22**	**181**	**109**	**27**	**2**
BHC. beta-	**14.22**	**181**	**145**	**15**	**2**
BHC. beta-	**14.22**	**219**	**183**	**8**	**2**
Pentachlorobenzonitrile	**14.25**	**273**	**177**	**25**	**2**
Pentachlorobenzonitrile	**14.25**	**273**	**238**	**17**	**2**
Pentachlorobenzonitrile	**14.25**	**275**	**205**	**30**	**2**
Terbufos	**14.26**	**231**	**129**	**23**	**2**
Terbufos	**14.26**	**231**	**175**	**12**	**2**
Terbufos	**14.26**	**231**	**203**	**8**	**2**
BHC. gamma-	**14.33**	**181**	**109**	**29**	**2**
BHC. gamma-	**14.33**	**181**	**145**	**13**	**2**
BHC. gamma-	**14.33**	**219**	**183**	**8**	**2**
Terbutylazine—	**14.34**	**173**	**138.1**	**8**	**2**
Terbutylazine—	**14.34**	**229**	**138**	**12**	**2**
Terbutylazine—	**14.34**	**229**	**173**	**8**	**2**
Propyzamide	**14.37**	**173**	**74**	**46**	**2**
Propyzamide	**14.37**	**173**	**109**	**27**	**2**
Propyzamide	**14.37**	**173**	**145**	**13**	**2**
Fluchloralin	**14.38**	**264.1**	**160.1**	**15**	**2**
Fluchloralin	**14.38**	**306**	**160**	**20**	**2**
Fluchloralin	**14.38**	**306**	**264**	**8**	**2**
Fonofos	**14.43**	**137**	**109**	**6**	**2**
Fonofos	**14.43**	**246**	**109**	**16**	**2**
Fonofos	**14.43**	**246**	**137**	**8**	**2**
Tefluthrin	**14.61**	**177**	**127**	**15**	**2**
Tefluthrin	**14.61**	**177**	**137**	**15**	**2**
Tefluthrin	**14.61**	**197**	**161**	**6**	**2**
Disulfoton	**14.72**	**88**	**60**	**6**	**2**
Disulfoton	**14.72**	**142**	**109**	**6**	**2**
Disulfoton	**14.72**	**153**	**97**	**12**	**2**
Triallate	**14.86**	**268**	**184**	**20**	**2**
Triallate	**14.86**	**268**	**226**	**10**	**2**
Triallate	**14.86**	**270**	**186**	**18**	**2**
Terbacil	**14.87**	**160**	**117**	**8**	**2**
Terbacil	**14.87**	**161**	**88**	**22**	**2**
Terbacil	**14.87**	**161**	**144**	**14**	**2**
BHC. delta-	**15.14**	**181**	**109**	**28**	**2**
BHC. delta-	**15.14**	**181**	**145**	**13**	**2**
BHC. delta-	**15.14**	**219**	**183**	**8**	**2**
Endosulfan ether	**15.39**	**239**	**204**	**13**	**2**
Endosulfan ether	**15.39**	**241**	**206**	**13**	**2**
Endosulfan ether	**15.39**	**272**	**237**	**10**	**2**
Dimethachlor	**15.48**	**134**	**77**	**25**	**2**
Dimethachlor	**15.48**	**134**	**105**	**13**	**2**
Dimethachlor	**15.48**	**197**	**148**	**8**	**2**
Acetochlor	**15.53**	**174**	**146**	**12**	**2**
Acetochlor	**15.53**	**223**	**132**	**20**	**2**
Acetochlor	**15.53**	**223**	**147**	**10**	**2**
Chlorpyrifos-methyl	**15.61**	**286**	**93**	**24**	**2**
Chlorpyrifos-methyl	**15.61**	**286**	**208**	**10**	**2**
Chlorpyrifos-methyl	**15.61**	**286**	**271**	**12**	**2**
Alachlor	**15.74**	**146**	**118**	**8**	**2**
Alachlor	**15.74**	**188**	**130**	**32**	**2**
Alachlor	**15.74**	**188**	**160**	**10**	**2**
Transfluthrin	**15.76**	**127**	**91.1**	**8**	**2**
Transfluthrin	**15.76**	**163**	**91**	**12**	**2**
Transfluthrin	**15.76**	**163**	**143**	**13**	**2**
Propisochlor	**15.81**	**162**	**120**	**13**	**2**
Propisochlor	**15.81**	**162**	**144**	**10**	**2**
Propisochlor	**15.81**	**223**	**132**	**18**	**2**
Tolclofos-methyl	**15.82**	**265**	**93**	**25**	**2**
Tolclofos-methyl	**15.82**	**265**	**250**	**10**	**2**
Tolclofos-methyl	**15.82**	**267**	**252**	**10**	**2**
Methyl parathion	**15.83**	**263**	**79**	**30**	**2**
Methyl parathion	**15.83**	**263**	**109**	**10**	**2**
Methyl parathion	**15.83**	**263**	**136**	**8**	**2**
Heptachlor	**15.97**	**100**	**65**	**12**	**2**
Heptachlor	**15.97**	**270**	**235**	**13**	**2**
Heptachlor	**15.97**	**272**	**237**	**13**	**2**
Fenchlorphos	**16.01**	**285**	**240**	**23**	**2**
Fenchlorphos	**16.01**	**285**	**270**	**11**	**2**
Fenchlorphos	**16.01**	**287**	**272**	**11**	**2**
Pirimiphos-methyl	**16.21**	**290**	**125**	**20**	**2**
Pirimiphos-methyl	**16.21**	**290**	**233**	**10**	**2**
Pirimiphos-methyl	**16.21**	**305**	**180**	**8**	**2**
Malathion	**16.52**	**127**	**99**	**6**	**2**

Malathion	**16.52**	**173**	**99**	**13**	**2**
Malathion	**16.52**	**173**	**127**	**6**	**2**
Pentachlorothioanisole	**16.53**	**296**	**246**	**32**	**2**
Pentachlorothioanisole	**16.53**	**296**	**263**	**12**	**2**
Pentachlorothioanisole	**16.53**	**298**	**265**	**8**	**2**
Metolachlor	**16.63**	**162**	**133**	**13**	**2**
Metolachlor	**16.63**	**238**	**133**	**27**	**2**
Metolachlor	**16.63**	**238**	**162**	**10**	**2**
Chlorpyrifos	**16.67**	**197**	**107**	**36**	**2**
Chlorpyrifos	**16.67**	**197**	**169**	**14**	**2**
Chlorpyrifos	**16.67**	**314**	**258**	**12**	**2**
Aldrin	**16.82**	**263**	**191**	**35**	**2**
Aldrin	**16.82**	**263**	**193**	**31**	**2**
Aldrin	**16.82**	**298**	**263**	**16**	**2**
Fenthion	**16.86**	**278**	**109**	**18**	**2**
Fenthion	**16.86**	**278**	**125**	**22**	**2**
Fenthion	**16.86**	**278**	**169**	**17**	**2**
Parathion	**16.92**	**109**	**81**	**8**	**2**
Parathion	**16.92**	**139**	**109**	**8**	**2**
Parathion	**16.92**	**291**	**109.1**	**10**	**2**
Anthraquinone	**17.06**	**180.1**	**152.1**	**15**	**2**
Anthraquinone	**17.06**	**208**	**152**	**23**	**2**
Anthraquinone	**17.06**	**208**	**180**	**20**	**2**
Pirimiphos-ethyl	**17.09**	**318**	**166**	**12**	**2**
Pirimiphos-ethyl	**17.09**	**318**	**182**	**8**	**2**
Pirimiphos-ethyl	**17.09**	**333**	**168**	**22**	**2**
Dichlorobenzophenone. 4.4'-	**17.2**	**111.1**	**75.1**	**12**	**2**
Dichlorobenzophenone. 4.4'-	**17.2**	**139**	**75**	**27**	**2**
Dichlorobenzophenone. 4.4'-	**17.2**	**139**	**111**	**13**	**2**
MGK 264 1	**17.25**	**164**	**80**	**26**	**2**
MGK 264 1	**17.25**	**164**	**93**	**12**	**2**
MGK 264 1	**17.25**	**164**	**121**	**8**	**2**
Isopropalin	**17.25**	**280**	**118**	**25**	**2**
Isopropalin	**17.25**	**280**	**180**	**10**	**2**
Isopropalin	**17.25**	**280**	**238**	**8**	**2**
Bromophos-methyl	**17.25**	**329**	**314**	**13**	**2**
Bromophos-methyl	**17.25**	**331**	**286**	**26**	**2**
Bromophos-methyl	**17.25**	**331**	**316**	**13**	**2**
Fenson	**17.33**	**141**	**77**	**8**	**2**
Fenson	**17.33**	**268**	**77**	**18**	**2**
Fenson	**17.33**	**268**	**141**	**8**	**2**
Fipronil	**17.45**	**213**	**143**	**28**	**2**
Fipronil	**17.45**	**367**	**213**	**30**	**2**
Fipronil	**17.45**	**369**	**215**	**30**	**2**
Metazachlor	**17.58**	**133**	**117.1**	**25**	**2**
Metazachlor	**17.58**	**209**	**117**	**35**	**2**
Metazachlor	**17.58**	**209**	**132**	**15**	**2**
Chlozolinate	**17.62**	**186**	**145**	**16**	**2**
Chlozolinate	**17.62**	**259**	**153**	**26**	**2**
Chlozolinate	**17.62**	**331**	**259**	**8**	**2**
Penconazole	**17.67**	**159**	**89**	**30**	**2**
Penconazole	**17.67**	**248**	**157**	**26**	**2**
Penconazole	**17.67**	**248**	**192**	**16**	**2**
Chlorfenvinphos 1	**17.7**	**267**	**159**	**15**	**2**
Chlorfenvinphos 1	**17.7**	**295**	**267.1**	**5**	**2**
Chlorfenvinphos 1	**17.7**	**323**	**267**	**10**	**2**
Bromfenvinphos-methyl	**17.78**	**109**	**79**	**10**	**2**
Bromfenvinphos-methyl	**17.78**	**295**	**93**	**20**	**2**
Bromfenvinphos-methyl	**17.78**	**295**	**109**	**15**	**2**
Bromophos-ethyl	**18.14**	**331**	**303**	**8**	**2**
Bromophos-ethyl	**18.14**	**357**	**301**	**15**	**2**
Bromophos-ethyl	**18.14**	**359**	**303**	**17**	**2**
Chlordane. trans-	**18.31**	**272**	**237**	**13**	**2**
Chlordane. trans-	**18.31**	**373**	**264**	**18**	**2**
Chlordane. trans-	**18.31**	**375**	**266**	**18**	**2**
DDE. o.p'-	**18.32**	**246**	**176**	**32**	**2**
DDE. o.p'-	**18.32**	**316**	**246**	**15**	**2**
DDE. o.p'-	**18.32**	**318**	**176**	**56**	**2**
Chlorbenside	**18.36**	**125**	**89**	**17**	**2**
Chlorbenside	**18.36**	**125**	**99**	**19**	**2**
Chlorbenside	**18.36**	**268**	**125**	**8**	**2**
Chlordane. cis-	**18.58**	**272**	**237**	**12**	**2**
Chlordane. cis-	**18.58**	**375**	**266**	**21**	**2**
Chlordane. cis-	**18.58**	**377**	**268**	**19**	**2**
Nonachlor. trans-	**18.6**	**409**	**263**	**25**	**2**
Nonachlor. trans-	**18.6**	**409**	**300**	**20**	**2**
Nonachlor. trans-	**18.6**	**409**	**302**	**22**	**2**

Endosulfan I	**18.62**	**195**	**125**	**19**	**2**
Endosulfan I	**18.62**	**195**	**159**	**6**	**2**
Endosulfan I	**18.62**	**241**	**206**	**10**	**2**
Bromfenvinphos	**18.62**	**267**	**159**	**15**	**2**
Bromfenvinphos	**18.62**	**323**	**267**	**10**	**2**
Bromfenvinphos	**18.62**	**325**	**269**	**15**	**2**
Fenamiphos	**18.67**	**217**	**202**	**9**	**2**
Fenamiphos	**18.67**	**303**	**154**	**15**	**2**
Fenamiphos	**18.67**	**303**	**195**	**8**	**2**
Pretilachlor	**18.78**	**162**	**117**	**30**	**2**
Pretilachlor	**18.78**	**162**	**132**	**18**	**2**
Pretilachlor	**18.78**	**262**	**202**	**8**	**2**
Prothiofos	**18.81**	**267**	**221**	**16**	**2**
Prothiofos	**18.81**	**267**	**239**	**8**	**2**
Prothiofos	**18.81**	**309**	**239**	**15**	**2**
Iodofenfos	**18.81**	**377**	**93**	**34**	**2**
Iodofenfos	**18.81**	**377**	**332**	**30**	**2**
Iodofenfos	**18.81**	**377**	**362**	**15**	**2**
Chlorfenson	**18.91**	**175**	**111**	**15**	**2**
Chlorfenson	**18.91**	**177**	**113**	**15**	**2**
Chlorfenson	**18.91**	**302**	**175**	**15**	**2**
Oxadiazon	**18.94**	**175**	**112**	**13**	**2**
Oxadiazon	**18.94**	**175**	**147**	**8**	**2**
Oxadiazon	**18.94**	**258**	**175**	**8**	**2**
Fludioxonil	**18.96**	**154**	**127**	**8**	**2**
Fludioxonil	**18.96**	**248**	**127**	**30**	**2**
Fludioxonil	**18.96**	**248**	**154**	**20**	**2**
Profenofos	**18.96**	**337**	**267**	**13**	**2**
Profenofos	**18.96**	**339**	**188**	**30**	**2**
Profenofos	**18.96**	**339**	**269**	**13**	**2**
DDE. p.p'-	**19.06**	**246**	**176**	**28**	**2**
DDE. p.p'-	**19.06**	**316**	**246**	**20**	**2**
DDE. p.p'-	**19.06**	**318**	**248**	**22**	**2**
Oxyfluorfen	**19.1**	**252**	**146**	**33**	**2**
Oxyfluorfen	**19.1**	**252**	**170**	**27**	**2**
Oxyfluorfen	**19.1**	**300**	**223**	**15**	**2**
DDD. o.p'-	**19.23**	**235**	**165**	**22**	**2**
DDD. o.p'-	**19.23**	**235**	**199**	**14**	**2**
DDD. o.p'-	**19.23**	**235**	**200**	**10**	**2**
Dieldrin	**19.26**	**263**	**193**	**34**	**2**
Dieldrin	**19.26**	**277**	**241**	**8**	**2**
Dieldrin	**19.26**	**279**	**243**	**10**	**2**
Fluazifop-P-butyl	**19.45**	**383**	**254**	**20**	**2**
Fluazifop-P-butyl	**19.45**	**383**	**268**	**8**	**2**
Fluazifop-P-butyl	**19.45**	**383**	**282**	**12**	**2**
Chlorthiophos 1	**19.49**	**257**	**165**	**26**	**2**
Chlorthiophos 1	**19.49**	**257**	**193**	**16**	**2**
Chlorthiophos 1	**19.49**	**257**	**239**	**12**	**2**
Ethylan	**19.6**	**223**	**167**	**12**	**2**
Ethylan	**19.6**	**223**	**179**	**22**	**2**
Ethylan	**19.6**	**223**	**193**	**28**	**2**
Chlorobenzilate	**19.7**	**139**	**111**	**12**	**2**
Nitrofen	**19.7**	**202**	**139**	**20**	**2**
Chlorobenzilate	**19.7**	**251**	**111**	**32**	**2**
Chlorobenzilate	**19.7**	**251**	**139**	**14**	**2**
Nitrofen	**19.7**	**283**	**162**	**18**	**2**
Nitrofen	**19.7**	**283**	**202**	**10**	**2**
Chlorthiophos 2	**19.72**	**269**	**205**	**15**	**2**
Chlorthiophos 2	**19.72**	**297**	**269**	**8**	**2**
Chlorthiophos 2	**19.72**	**325**	**269**	**14**	**2**
Endrin	**19.76**	**245**	**173**	**25**	**2**
Endrin	**19.76**	**263**	**193**	**30**	**2**
Endrin	**19.76**	**279**	**243**	**8**	**2**
Chlorthiophos 3	**20**	**269**	**205**	**15**	**2**
Chlorthiophos 3	**20**	**297**	**269**	**8**	**2**
Chlorthiophos 3	**20**	**325**	**269**	**14**	**2**
Nonachlor. cis-	**20.02**	**272**	**237**	**15**	**2**
Nonachlor. cis-	**20.02**	**409**	**300**	**23**	**2**
Nonachlor. cis-	**20.02**	**409**	**302**	**20**	**2**
DDD. p.p'-	**20.05**	**235**	**165**	**24**	**2**
DDD. p.p'-	**20.05**	**235**	**199**	**12**	**2**
DDD. p.p'-	**20.05**	**237**	**165**	**22**	**2**
DDT. o.p'-	**20.07**	**235**	**165**	**21**	**2**
DDT. o.p'-	**20.07**	**235**	**199**	**16**	**2**
DDT. o.p'-	**20.07**	**237**	**165**	**22**	**2**
Sulprofos	**20.35**	**156**	**141**	**13**	**2**
Sulprofos	**20.35**	**322**	**97**	**24**	**2**

Sulprofos	**20.35**	**322**	**156**	**8**	**2**
Carfentrazone ethyl	**20.39**	**330**	**141**	**44**	**2**
Carfentrazone ethyl	**20.39**	**330**	**310**	**8**	**2**
Carfentrazone ethyl	**20.39**	**340**	**312**	**10**	**2**
4.4'-Methoxychlor olefin	**20.57**	**238**	**152**	**35**	**2**
4.4'-Methoxychlor olefin	**20.57**	**238**	**195**	**20**	**2**
4.4'-Methoxychlor olefin	**20.57**	**308**	**223**	**30**	**2**
Carbophenothion	**20.6**	**125**	**97**	**6**	**2**
Carbophenothion	**20.6**	**199**	**143**	**10**	**2**
Carbophenothion	**20.6**	**342**	**157**	**10**	**2**
Norflurazon	**20.69**	**145**	**75**	**25**	**2**
Norflurazon	**20.69**	**145**	**95**	**18**	**2**
Norflurazon	**20.69**	**303**	**145**	**17**	**2**
DDT. p.p'-	**20.86**	**235**	**165**	**21**	**2**
DDT. p.p'-	**20.86**	**235**	**199**	**16**	**2**
DDT. p.p'-	**20.86**	**237**	**165**	**22**	**2**
Endosulfan sulfate	**20.87**	**241**	**206**	**15**	**2**
Endosulfan sulfate	**20.87**	**272**	**237**	**15**	**2**
Endosulfan sulfate	**20.87**	**274**	**239**	**15**	**2**
2.4'-Methoxychlor	**20.97**	**121**	**78**	**20**	**2**
2.4'-Methoxychlor	**20.97**	**121**	**91**	**12**	**2**
2.4'-Methoxychlor	**20.97**	**227**	**121**	**12**	**2**
Hexazinone	**21.06**	**128**	**83**	**10**	**2**
Hexazinone	**21.06**	**171**	**71**	**16**	**2**
Hexazinone	**21.06**	**171**	**85**	**16**	**2**
Piperonyl butoxide	**21.19**	**176**	**103**	**26**	**2**
Piperonyl butoxide	**21.19**	**176**	**117**	**20**	**2**
Piperonyl butoxide	**21.19**	**176**	**131**	**14**	**2**
Resmethrin 1	**21.24**	**123**	**81**	**8**	**2**
Resmethrin 1	**21.24**	**143**	**128**	**10**	**2**
Resmethrin 1	**21.24**	**171**	**143**	**6**	**2**
Pyridaphenthion	**21.69**	**340**	**97**	**34**	**2**
Pyridaphenthion	**21.69**	**340**	**109**	**20**	**2**
Pyridaphenthion	**21.69**	**340**	**199**	**8**	**2**
Bifenthrin	**21.7**	**165**	**115**	**30**	**2**
Bifenthrin	**21.7**	**181**	**165**	**25**	**2**
Bifenthrin	**21.7**	**181**	**166**	**10**	**2**
Iprodione	**21.71**	**187**	**124.1**	**24**	**2**
Iprodione	**21.71**	**314**	**245**	**10**	**2**
Iprodione	**21.71**	**314**	**271**	**12**	**2**
Tetramethrin 1	**21.73**	**164**	**77**	**22**	**2**
Tetramethrin 1	**21.73**	**164**	**107**	**12**	**2**
Tetramethrin 1	**21.73**	**164**	**135**	**8**	**2**
Tetramethrin 2	**21.91**	**164**	**77**	**25**	**2**
Tetramethrin 2	**21.91**	**164**	**107**	**12**	**2**
Tetramethrin 2	**21.91**	**164**	**135**	**8**	**2**
Bromopropylate	**21.91**	**183**	**155**	**12**	**2**
Bromopropylate	**21.91**	**341**	**183**	**15**	**2**
Bromopropylate	**21.91**	**341**	**185**	**13**	**2**
EPN	**21.95**	**157**	**110**	**14**	**2**
EPN	**21.95**	**169**	**77**	**22**	**2**
EPN	**21.95**	**169**	**141**	**8**	**2**
Fenpropathrin	**22.01**	**181**	**127**	**24**	**2**
Fenpropathrin	**22.01**	**181**	**152**	**24**	**2**
Fenpropathrin	**22.01**	**265**	**210**	**16**	**2**
Methoxychlor	**22.06**	**227**	**115**	**50**	**2**
Methoxychlor	**22.06**	**227**	**141**	**33**	**2**
Methoxychlor	**22.06**	**227**	**169**	**25**	**2**
Tebufenpyrad	**22.14**	**276**	**171**	**10**	**2**
Tebufenpyrad	**22.14**	**318**	**131**	**13**	**2**
Tebufenpyrad	**22.14**	**333**	**276**	**8**	**2**
Phenothrin 1	**22.3**	**123**	**81**	**20**	**2**
Phenothrin 1	**22.3**	**183**	**153**	**20**	**2**
Phenothrin 1	**22.3**	**183**	**168**	**20**	**2**
Phenothrin 2	**22.43**	**123**	**81**	**8**	**2**
Phenothrin 2	**22.43**	**183**	**153**	**14**	**2**
Phenothrin 2	**22.43**	**183**	**168**	**12**	**2**
Tetradifon	**22.61**	**159**	**111**	**20**	**2**
Tetradifon	**22.61**	**159**	**131**	**10**	**2**
Tetradifon	**22.61**	**227**	**199**	**10**	**2**
Phosalone	**22.68**	**121.1**	**65**	**10**	**2**
Phosalone	**22.68**	**182**	**74.8**	**30**	**2**
Phosalone	**22.68**	**182**	**111**	**16**	**2**
Pyriproxyfen	**22.83**	**136**	**78**	**20**	**2**
Pyriproxyfen	**22.83**	**136**	**96**	**12**	**2**
Pyriproxyfen	**22.83**	**226**	**186**	**10**	**2**
Cyhalothrin. lambda-	**22.87**	**181**	**152**	**23**	**2**

Cyhalothrin. lambda-	**22.87**	**197**	**141**	**10**	**2**
Cyhalothrin. lambda-	**22.87**	**208**	**181**	**8**	**2**
Acrinathrin	**22.95**	**181**	**152**	**22**	**2**
Acrinathrin	**22.95**	**181.1**	**127.1**	**30**	**2**
Acrinathrin	**22.95**	**208**	**181**	**8**	**2**
Pyrazophos	**23.17**	**221**	**193**	**8**	**2**
Pyrazophos	**23.17**	**232**	**204**	**8**	**2**
Pyrazophos	**23.17**	**265**	**210**	**10**	**2**
Mirex	**23.27**	**272**	**237**	**15**	**2**
Mirex	**23.27**	**274**	**143**	**40**	**2**
Mirex	**23.27**	**274**	**239**	**15**	**2**
Azinphos-ethyl	**23.52**	**132**	**77**	**12**	**2**
Azinphos-ethyl	**23.52**	**160**	**77**	**18**	**2**
Azinphos-ethyl	**23.52**	**160**	**132**	**6**	**2**
Pyraclofos	**23.62**	**194**	**138**	**18**	**2**
Pyraclofos	**23.62**	**360**	**96.9**	**35**	**2**
Pyraclofos	**23.62**	**360**	**194**	**20**	**2**
Permethrin. cis	**23.93**	**163**	**127**	**12**	**2**
Permethrin. cis	**23.93**	**183**	**153**	**12**	**2**
Permethrin. cis	**23.93**	**183**	**168**	**10**	**2**
Permethrin. trans	**24.07**	**163**	**127**	**6**	**2**
Permethrin. trans	**24.07**	**183**	**153**	**14**	**2**
Permethrin. trans	**24.07**	**183**	**168**	**10**	**2**
Coumaphos	**24.15**	**210**	**182**	**10**	**2**
Coumaphos	**24.15**	**362**	**109**	**17**	**2**
Coumaphos	**24.15**	**362**	**226**	**13**	**2**
Pyridaben	**24.17**	**147**	**117**	**20**	**2**
Pyridaben	**24.17**	**147**	**119**	**8**	**2**
Pyridaben	**24.17**	**147**	**132**	**13**	**2**
Fluquinconazole	**24.2**	**340**	**108**	**42**	**2**
Fluquinconazole	**24.2**	**340**	**298**	**14**	**2**
Fluquinconazole	**24.2**	**340**	**313**	**12**	**2**
Cyfluthrin+Cypermethrin	**24.86**	**163**	**91.1**	**14**	**2**
Cyfluthrin+Cypermethrin	**24.86**	**163**	**127**	**6**	**2**
Cyfluthrin+Cypermethrin	**24.86**	**165.1**	**91**	**15**	**2**
Cyfluthrin+Cypermethrin	**24.86**	**181.1**	**152.1**	**18**	**2**
Cyfluthrin+Cypermethrin	**24.86**	**206**	**151**	**15**	**2**
Flucythrinate 1	**25.08**	**157**	**107**	**13**	**2**
Flucythrinate 1	**25.08**	**199**	**107**	**24**	**2**
Flucythrinate 1	**25.08**	**199**	**157**	**8**	**2**
Flucythrinate 2	**25.31**	**157**	**107**	**13**	**2**
Flucythrinate 2	**25.31**	**199**	**107**	**24**	**2**
Flucythrinate 2	**25.31**	**199**	**157**	**8**	**2**
Etofenprox	**25.32**	**163**	**77**	**34**	**2**
Etofenprox	**25.32**	**163**	**107**	**18**	**2**
Etofenprox	**25.32**	**163**	**135**	**10**	**2**
Fenvalerate 1	**26**	**167**	**125**	**8**	**2**
Fenvalerate 1	**26**	**169**	**127**	**10**	**2**
Fenvalerate 1	**26**	**225**	**119**	**15**	**2**
tau-Fluvalinate 1	**26.01**	**250**	**55**	**23**	**2**
tau-Fluvalinate 1	**26.01**	**250**	**200**	**19**	**2**
tau-Fluvalinate 1	**26.01**	**252**	**55.1**	**17**	**2**
tau-Fluvalinate 2	**26.09**	**250**	**55**	**23**	**2**
tau-Fluvalinate 2	**26.09**	**250**	**200**	**19**	**2**
tau-Fluvalinate 2	**26.09**	**252**	**55.1**	**17**	**2**
Fenvalerate 2	**26.24**	**167**	**125**	**8**	**2**
Fenvalerate 2	**26.24**	**169**	**127**	**10**	**2**
Fenvalerate 2	**26.24**	**225**	**119**	**15**	**2**

Table 2 – Parameters related to active compounds analysed by LC-MS/MS

Active compound	Ret. Time (min)	Parent ion (M/Z)	Product ion (M/Z)	Collision Energy (eV)	Time Windows (min)
Propamocarb	0.6	189.2	102	25	1.2
Propamocarb	0.6	189.2	144	19	1.2
Omethoate	0.6	214	124.9	31	1.2
Omethoate	0.6	214	182.8	17	1.2
Pymetrozine	0.57	218	78	61	1.1
Pymetrozine	0.57	218	105	27	1.1
Methamidophos	0.58	142	94	19	1.1
Methamidophos	0.58	142	125	19	1.1
Formetanate HCl	0.59	222.1	120	37	1.1
Formetanate HCl	0.59	222.1	165	23	1.1
Carbendazim	0.63	192.1	132.1	25	1.2
Carbendazim	0.63	192.1	160.1	20	1.2
Dinotefuran	1.38	203.1	129.2	17	2
Dinotefuran	1.38	203.1	157.2	11	2
Nitenpyram	1.46	271	126	35	2
Nitenpyram	1.46	271	225.2	17	2
Clothianidin	3.93	250	132	21	2
Clothianidin	3.93	250	169	19	2
Imidacloprid	4.02	256	175.1	25	2
Imidacloprid	4.02	256	209.1	21	2
Dimethoate	4.17	230	125	29	2
Dimethoate	4.17	230	199	13	2
Acetamiprid	4.2	223	99	53	2
Acetamiprid	4.2	223	126	29	2
Pirimicarb	4.28	239.2	72.1	33	2
Pirimicarb	4.28	239.2	182.1	21	2
Cymoxanil	4.39	198.9	111.2	23	2
Cymoxanil	4.39	198.9	128.2	12	2
Ethirimol	4.5	210.2	98.1	39	2
Ethirimol	4.5	210.2	140.1	31	2
Thiacloprid	4.54	253	99	59	2
Thiacloprid	4.54	253	126	29	2
Thiophanate-methyl	5.1	343	151.1	31	2
Thiophanate-methyl	5.1	343	311	17	2
Metribuzin	5.14	215.1	84.1	31	2
Metribuzin	5.14	215.1	187.1	25	2
Imazalil	5.35	297	159	29	2
Imazalil	5.35	297	201	25	2
Flutriafol	5.7	302.1	70.1	59	2
Flutriafol	5.7	302.1	123	37	2
Metalaxyl	5.8	280.1	192.2	25	2
Metalaxyl	5.8	280.1	220.2	19	2
Fenpropimorph	6	304	117	73	2
Fenpropimorph	6	304	147	39	2
Chlorantraniliprole	6.14	484	285.9	17	2
Chlorantraniliprole	6.14	484	452.9	21	2
Spiroxamine	6.33	298.2	100.1	43	2
Spiroxamine	6.33	298.2	144.2	29	2
Azoxystrobin	6.42	404.1	344.1	33	2
Azoxystrobin	6.42	404.1	372.1	19	2
Ethofumesate	6.49	287.1	121.1	23	2
Ethofumesate	6.49	287.1	259.1	15	2
Linuron	6.5	249.1	160	25	2
Linuron	6.5	249.1	182.1	21	2
Methiocarb	6.6	226.1	121.1	27	2
Methiocarb	6.6	226.1	169.1	13	2
Dimethomorph	6.75	388.1	165.1	45	2
Dimethomorph	6.75	388.1	301	29	2
Boscalid	6.75	343	140	25	2
Boscalid	6.75	343	307	27	2
Mandipropamid	6.82	412.1	328.1	19	2
Mandipropamid	6.82	412.1	356.1	15	2
Bupirimate	6.96	317	166.1	33	2
Bupirimate	6.96	317	108	35	2

Methoxyfenozide	**7.08**	**369.1**	**149.1**	**21**	**2**
Methoxyfenozide	**7.08**	**369.1**	**313.2**	**11**	**2**
Cyprodinil	**7.15**	**226**	**77**	**61**	**2**
Cyprodinil	**7.15**	**226**	**93**	**47**	**2**
Myclobutanil	**7.17**	**289**	**70**	**41**	**2**
Myclobutanil	**7.17**	**289**	**125**	**39**	**2**
Clethodim Isomer 1	**7.21**	**360.1**	**164**	**29**	**2**
Clethodim Isomer 1	**7.21**	**360.1**	**268.1**	**17**	**2**
Bifenazate	**7.33**	**301.1**	**170.1**	**27**	**2**
Bifenazate	**7.33**	**301.1**	**198.1**	**13**	**2**
Mepanipyrim	**7.34**	**224**	**77**	**55**	**2**
Mepanipyrim	**7.34**	**224**	**106**	**35**	**2**
Iprovalicarb	**7.43**	**321.2**	**119**	**47**	**2**
Iprovalicarb	**7.43**	**321.2**	**203.1**	**13**	**2**
Fenhexamid	**7.54**	**302**	**55**	**61**	**2**
Fenhexamid	**7.54**	**302**	**97**	**33**	**2**
Fenarimol	**7.57**	**331**	**81**	**55**	**2**
Fenarimol	**7.57**	**331**	**268**	**35**	**2**
Flutriafol	**5.7**	**302.1**	**70.1**	**59**	**2**
Flutriafol	**5.7**	**302.1**	**123**	**37**	**2**
Metalaxyl	**5.8**	**280.1**	**192.2**	**25**	**2**
Metalaxyl	**5.8**	**280.1**	**220.2**	**19**	**2**
Fenpropimorph	**6**	**304**	**117**	**73**	**2**
Fenpropimorph	**6**	**304**	**147**	**39**	**2**
Chlorantraniliprole	**6.14**	**484**	**285.9**	**17**	**2**
Chlorantraniliprole	**6.14**	**484**	**452.9**	**21**	**2**
Spiroxamine	**6.33**	**298.2**	**100.1**	**43**	**2**
Spiroxamine	**6.33**	**298.2**	**144.2**	**29**	**2**
Azoxystrobin	**6.42**	**404.1**	**344.1**	**33**	**2**
Azoxystrobin	**6.42**	**404.1**	**372.1**	**19**	**2**
Ethofumesate	**6.49**	**287.1**	**121.1**	**23**	**2**
Ethofumesate	**6.49**	**287.1**	**259.1**	**15**	**2**
Linuron	**6.5**	**249.1**	**160**	**25**	**2**
Linuron	**6.5**	**249.1**	**182.1**	**21**	**2**
Methiocarb	**6.6**	**226.1**	**121.1**	**27**	**2**
Methiocarb	**6.6**	**226.1**	**169.1**	**13**	**2**
Dimethomorph	**6.75**	**388.1**	**165.1**	**45**	**2**
Dimethomorph	**6.75**	**388.1**	**301**	**29**	**2**
Boscalid	**6.75**	**343**	**140**	**25**	**2**
Boscalid	**6.75**	**343**	**307**	**27**	**2**
Mandipropamid	**6.82**	**412.1**	**328.1**	**19**	**2**
Mandipropamid	**6.82**	**412.1**	**356.1**	**15**	**2**
Bupirimate	**6.96**	**317**	**166.1**	**33**	**2**
Bupirimate	**6.96**	**317**	**108**	**35**	**2**
Methoxyfenozide	**7.08**	**369.1**	**149.1**	**21**	**2**
Methoxyfenozide	**7.08**	**369.1**	**313.2**	**11**	**2**
Cyprodinil	**7.15**	**226**	**77**	**61**	**2**
Cyprodinil	**7.15**	**226**	**93**	**47**	**2**
Myclobutanil	**7.17**	**289**	**70**	**41**	**2**
Myclobutanil	**7.17**	**289**	**125**	**39**	**2**
Clethodim Isomer 1	**7.21**	**360.1**	**164**	**29**	**2**
Clethodim Isomer 1	**7.21**	**360.1**	**268.1**	**17**	**2**
Bifenazate	**7.33**	**301.1**	**170.1**	**27**	**2**
Bifenazate	**7.33**	**301.1**	**198.1**	**13**	**2**
Mepanipyrim	**7.34**	**224**	**77**	**55**	**2**
Mepanipyrim	**7.34**	**224**	**106**	**35**	**2**
Iprovalicarb	**7.43**	**321.2**	**119**	**47**	**2**
Iprovalicarb	**7.43**	**321.2**	**203.1**	**13**	**2**
Fenhexamid	**7.54**	**302**	**55**	**61**	**2**
Fenhexamid	**7.54**	**302**	**97**	**33**	**2**
Fenarimol	**7.57**	**331**	**81**	**55**	**2**
Fenarimol	**7.57**	**331**	**268**	**35**	**2**
Spirotetramat	**7.59**	**374.2**	**302.2**	**27**	**2**
Spirotetramat	**7.59**	**374.2**	**330.2**	**23**	**2**
Etaconazole	**7.62**	**328.1**	**159**	**31**	**2**
Etaconazole	**7.62**	**328.1**	**205**	**23**	**2**
Triticonazole	**7.64**	**318.1**	**70**	**35**	**2**
Triticonazole	**7.64**	**318.1**	**125**	**49**	**2**
Tetraconazole	**7.73**	**372.1**	**70**	**47**	**2**
Tetraconazole	**7.73**	**372.1**	**159**	**35**	**2**

Fenbuconazole	**8.09**	**337**	**70**	**39**	**2**
Fenbuconazole	**8.09**	**337**	**124.9**	**55**	**2**
Tebufenozide	**8.31**	**353.2**	**133**	**23**	**2**
Tebufenozide	**8.31**	**353.2**	**297.2**	**11**	**2**
Neburon	**8.43**	**275**	**88**	**23**	**2**
Neburon	**8.43**	**275**	**114**	**21**	**2**
Prochloraz	**8.6**	**376**	**70**	**43**	**2**
Prochloraz	**8.6**	**376**	**308**	**15**	**2**
Tebuconazole	**8.74**	**308.2**	**70**	**51**	**2**
Tebuconazole	**8.74**	**308.2**	**125**	**55**	**2**
Flubendiamide	**8.75**	**683.1**	**274.1**	**41**	**2**
Flubendiamide	**8.75**	**683.1**	**408**	**9**	**2**
Propiconazole	**8.88**	**342.1**	**69**	**39**	**2**
Propiconazole	**8.88**	**342.1**	**159**	**31**	**2**
Zoxamide	**9.02**	**336.1**	**159**	**55**	**2**
Zoxamide	**9.02**	**336.1**	**187**	**29**	**2**
Spinosad (Spinosyn A)	**9.3**	**732.5**	**98.1**	**95**	**2**
Spinosad (Spinosyn A)	**9.3**	**732.5**	**142.2**	**39**	**2**
Pyraclostrobin	**9.34**	**388**	**163**	**31**	**2**
Pyraclostrobin	**9.34**	**388**	**194**	**17**	**2**
Triflumuron	**9.5**	**359.1**	**139**	**45**	**2**
Triflumuron	**9.5**	**359.1**	**156.2**	**23**	**2**
Difenoconazole	**9.77**	**406.1**	**251.1**	**41**	**2**
Difenoconazole	**9.77**	**408.2**	**253.1**	**31**	**2**
Triflumizole	**9.82**	**346.1**	**73**	**27**	**2**
Triflumizole	**9.82**	**346.1**	**278.1**	**17**	**2**
Spinosad (Spinosyn D)	**9.83**	**746.8**	**98**	**55**	**2**
Spinosad (Spinosyn D)	**9.83**	**746.8**	**142.1**	**35**	**2**
Trifloxystrobin	**10**	**409**	**186**	**21**	**2**
Trifloxystrobin	**10**	**409**	**206**	**19**	**2**
Indoxacarb	**10.04**	**528**	**203**	**47**	**2**
Indoxacarb	**10.04**	**528**	**218**	**35**	**2**
Clethodim Isomer 2	**10.2**	**360.101**	**164**	**29**	**2**
Clethodim Isomer 2	**10.2**	**360.101**	**268.1**	**17**	**2**
Buprofezin	**10.23**	**306.2**	**116.2**	**23**	**2**
Buprofezin	**10.23**	**306.2**	**201.1**	**17**	**2**
Tebufenpyrad	**10.47**	**334**	**117**	**47**	**2**
Tebufenpyrad	**10.47**	**334**	**145**	**37**	**2**
Quinoxyfen	**10.64**	**308.1**	**162.1**	**63**	**2**
Quinoxyfen	**10.64**	**308.1**	**197.1**	**45**	**2**
Metaflumizone	**10.65**	**507.1**	**178.1**	**33**	**2**
Metaflumizone	**10.62**	**507.1**	**287.1**	**33**	**2**
Lufenuron	**10.75**	**511.1**	**141.2**	**61**	**2**
Lufenuron	**10.75**	**511.1**	**158.1**	**27**	**2**
Hexythiazox	**10.81**	**353.1**	**168**	**37**	**2**
Hexythiazox	**10.81**	**353.1**	**228**	**19**	**2**
Spiromesifen	**11**	**371.2**	**255.2**	**31**	**2**
Spiromesifen	**11**	**371.2**	**273.2**	**11**	**2**
Etoxazole	**11.01**	**360.1**	**57.2**	**51**	**2**
Etoxazole	**11.01**	**360.1**	**141**	**59**	**2**
Propargite	**11.01**	**368.2**	**175.1**	**23**	**2**
Propargite	**11.01**	**368.2**	**231.1**	**15**	**2**
Fenpyroximate	**11.21**	**422**	**135.1**	**53**	**2**
Fenpyroximate	**11.21**	**422**	**366.1**	**23**	**2**

Table 3 - Parameters related to active compounds analyzed by Selected Reaction Monitoring acquisition (SRM)

Active compound	Ret Time (min)	Parent ion (M/Z)	Product ion (M/Z)	Collision Energy (eV)	Time Windows (min)
Propamocarb	0.6	189.2	102	25	1.2
Propamocarb	0.6	189.2	144	19	1.2
Omethoate	0.6	214	124.9	31	1.2
Omethoate	0.6	214	182.8	17	1.2
Pymetrozine	0.57	218	78	61	1.1
Pymetrozine	0.57	218	105	27	1.1
Methamidophos	0.58	142	94	19	1.1
Methamidophos	0.58	142	125	19	1.1
Formetanate HCl	0.59	222.1	120	37	1.1
Formetanate HCl	0.59	222.1	165	23	1.1
Carbendazim	0.63	192.1	132.1	25	1.2
Carbendazim	0.63	192.1	160.1	20	1.2
Dinotefuran	1.38	203.1	129.2	17	2
Dinotefuran	1.38	203.1	157.2	11	2
Nitenpyram	1.46	271	126	35	2
Nitenpyram	1.46	271	225.2	17	2
Clothianidin	3.93	250	132	21	2
Clothianidin	3.93	250	169	19	2
Imidacloprid	4.02	256	175.1	25	2
Imidacloprid	4.02	256	209.1	21	2
Dimethoate	4.17	230	125	29	2
Dimethoate	4.17	230	199	13	2
Acetamiprid	4.2	223	99	53	2
Acetamiprid	4.2	223	126	29	2
Pirimicarb	4.28	239.2	72.1	33	2
Pirimicarb	4.28	239.2	182.1	21	2
Cymoxanil	4.39	198.9	111.2	23	2
Cymoxanil	4.39	198.9	128.2	12	2
Ethirimol	4.5	210.2	98.1	39	2
Ethirimol	4.5	210.2	140.1	31	2
Thiacloprid	4.54	253	99	59	2
Thiacloprid	4.54	253	126	29	2
Thiophanate-methyl	5.1	343	151.1	31	2
Thiophanate-methyl	5.1	343	311	17	2
Metribuzin	5.14	215.1	84.1	31	2
Metribuzin	5.14	215.1	187.1	25	2
Imazalil	5.35	297	159	29	2
Imazalil	5.35	297	201	25	2
Imidacloprid	5.44	256	175.1	25	2
Imidacloprid	5.44	256	209.1	21	2
Fluometuron	5.53	233.1	46	37	2
Fluometuron	5.53	233.1	72.1	35	2
Flutriafol	5.7	302.1	70.1	59	2
Flutriafol	5.7	302.1	123	37	2
Metalaxyl	5.8	280.1	192.2	25	2
Metalaxyl	5.8	280.1	220.2	19	2
Pyrimethanil	5.81	200	82	37	2
Pyrimethanil	5.81	200	107	33	2
Fenpropimorph	6	304	117	73	2
Fenpropimorph	6	304	147	39	2
Chlorantraniliprole	6.14	484	285.9	17	2
Chlorantraniliprole	6.14	484	452.9	21	2
Spiroxamine	6.33	298.2	100.1	43	2
Spiroxamine	6.33	298.2	144.2	29	2
Azoxystrobin	6.42	404.1	344.1	33	2
Azoxystrobin	6.42	404.1	372.1	19	2
Ethofumesate	6.49	287.1	121.1	23	2
Ethofumesate	6.49	287.1	259.1	15	2
Linuron	6.5	249.1	160	25	2
Linuron	6.5	249.1	182.1	21	2

Methiocarb	**6.6**	**226.1**	**121.1**	**27**	**2**
Methiocarb	**6.6**	**226.1**	**169.1**	**13**	**2**
Dimethomorph	**6.75**	**388.1**	**165.1**	**45**	**2**
Dimethomorph	**6.75**	**388.1**	**301**	**29**	**2**
Boscalid	**6.75**	**343**	**140**	**25**	**2**
Boscalid	**6.75**	**343**	**307**	**27**	**2**
Mandipropamid	**6.82**	**412.1**	**328.1**	**19**	**2**
Mandipropamid	**6.82**	**412.1**	**356.1**	**15**	**2**
Bupirimate	**6.96**	**317**	**166.1**	**33**	**2**
Bupirimate	**6.96**	**317**	**108**	**35**	**2**
Methoxyfenozide	**7.08**	**369.1**	**149.1**	**21**	**2**
Methoxyfenozide	**7.08**	**369.1**	**313.2**	**11**	**2**
Cyprodinil	**7.15**	**226**	**77**	**61**	**2**
Cyprodinil	**7.15**	**226**	**93**	**47**	**2**
Myclobutanil	**7.17**	**289**	**70**	**41**	**2**
Myclobutanil	**7.17**	**289**	**125**	**39**	**2**
Cyproconazole	**7.2**	**292**	**70**	**31**	**2**
Cyproconazole	**7.2**	**292**	**125**	**29**	**2**
Clethodim Isomer 1	**7.21**	**360.1**	**164**	**29**	**2**
Clethodim Isomer 1	**7.21**	**360.1**	**268.1**	**17**	**2**
Bifenazate	**7.33**	**301.1**	**170.1**	**27**	**2**
Bifenazate	**7.33**	**301.1**	**198.1**	**13**	**2**
Mepanipyrim	**7.34**	**224**	**77**	**55**	**2**
Mepanipyrim	**7.34**	**224**	**106**	**35**	**2**
Iprovalicarb	**7.43**	**321.2**	**119**	**47**	**2**
Iprovalicarb	**7.43**	**321.2**	**203.1**	**13**	**2**
Fenhexamid	**7.54**	**302**	**55**	**61**	**2**
Fenhexamid	**7.54**	**302**	**97**	**33**	**2**
Fenarimol	**7.57**	**331**	**81**	**55**	**2**
Fenarimol	**7.57**	**331**	**268**	**35**	**2**
Spirotetramat	**7.59**	**374.2**	**302.2**	**27**	**2**
Spirotetramat	**7.59**	**374.2**	**330.2**	**23**	**2**
Etaconazole	**7.62**	**328.1**	**159**	**31**	**2**
Etaconazole	**7.62**	**328.1**	**205**	**23**	**2**
Triticonazole	**7.64**	**318.1**	**70**	**35**	**2**
Triticonazole	**7.64**	**318.1**	**125**	**49**	**2**
Tetraconazole	**7.73**	**372.1**	**70**	**47**	**2**
Tetraconazole	**7.73**	**372.1**	**159**	**35**	**2**
Cyazofamid	**7.91**	**325.2**	**108**	**18**	**2**
Cyazofamid	**7.91**	**325.2**	**261.2**	**14**	**2**
Fenbuconazole	**8.09**	**337**	**70**	**39**	**2**
Fenbuconazole	**8.09**	**337**	**124.9**	**55**	**2**
Tebufenozide	**8.31**	**353.2**	**133**	**23**	**2**
Tebufenozide	**8.31**	**353.2**	**297.2**	**11**	**2**
Neburon	**8.43**	**275**	**88**	**23**	**2**
Neburon	**8.43**	**275**	**114**	**21**	**2**
Prochloraz	**8.6**	**376**	**70**	**43**	**2**
Prochloraz	**8.6**	**376**	**308**	**15**	**2**
Tebuconazole	**8.74**	**308.2**	**70**	**51**	**2**
Tebuconazole	**8.74**	**308.2**	**125**	**55**	**2**
Flubendiamide	**8.75**	**683.1**	**274.1**	**41**	**2**
Flubendiamide	**8.75**	**683.1**	**408**	**9**	**2**
Propiconazole	**8.88**	**342.1**	**69**	**39**	**2**
Propiconazole	**8.88**	**342.1**	**159**	**31**	**2**
Zoxamide	**9.02**	**336.1**	**159**	**55**	**2**
Zoxamide	**9.02**	**336.1**	**187**	**29**	**2**
Spinosad (Spinosyn A)	**9.3**	**732.5**	**98.1**	**95**	**2**
Spinosad (Spinosyn A)	**9.3**	**732.5**	**142.2**	**39**	**2**
Pyraclostrobin	**9.34**	**388**	**163**	**31**	**2**
Pyraclostrobin	**9.34**	**388**	**194**	**17**	**2**
Triflumuron	**9.5**	**359.1**	**139**	**45**	**2**
Triflumuron	**9.5**	**359.1**	**156.2**	**23**	**2**
Difenoconazole	**9.77**	**406.1**	**251.1**	**41**	**2**
Difenoconazole	**9.77**	**408.2**	**253.1**	**31**	**2**
Triflumizole	**9.82**	**346.1**	**73**	**27**	**2**

Triflumizole	**9.82**	**346.1**	**278.1**	**17**	**2**
Spinosad (Spinosyn D)	**9.83**	**746.8**	**98**	**55**	**2**
Spinosad (Spinosyn D)	**9.83**	**746.8**	**142.1**	**35**	**2**
Trifloxystrobin	**10**	**409**	**186**	**21**	**2**
Trifloxystrobin	**10**	**409**	**206**	**19**	**2**
Indoxacarb	**10.04**	**528**	**203**	**47**	**2**
Indoxacarb	**10.04**	**528**	**218**	**35**	**2**
Clethodim Isomer 2	**10.2**	**360.101**	**164**	**29**	**2**
Clethodim Isomer 2	**10.2**	**360.101**	**268.1**	**17**	**2**
Buprofezin	**10.23**	**306.2**	**116.2**	**23**	**2**
Buprofezin	**10.23**	**306.2**	**201.1**	**17**	**2**
Tebufenpyrad	**10.47**	**334**	**117**	**47**	**2**
Tebufenpyrad	**10.47**	**334**	**145**	**37**	**2**
Quinoxyfen	**10.64**	**308.1**	**162.1**	**63**	**2**
Quinoxyfen	**10.64**	**308.1**	**197.1**	**45**	**2**
Metaflumizone	**10.65**	**507.1**	**178.1**	**33**	**2**
Metaflumizone	**10.62**	**507.1**	**287.1**	**33**	**2**
Lufenuron	**10.75**	**511.1**	**141.2**	**61**	**2**
Lufenuron	**10.75**	**511.1**	**158.1**	**27**	**2**
Hexythiazox	**10.81**	**353.1**	**168**	**37**	**2**
Hexythiazox	**10.81**	**353.1**	**228**	**19**	**2**
Spiromesifen	**11**	**371.2**	**255.2**	**31**	**2**
Spiromesifen	**11**	**371.2**	**273.2**	**11**	**2**
Etoxazole	**11.01**	**360.1**	**57.2**	**51**	**2**
Etoxazole	**11.01**	**360.1**	**141**	**59**	**2**
Propargite	**11.01**	**368.2**	**175.1**	**23**	**2**
Propargite	**11.01**	**368.2**	**231.1**	**15**	**2**
Fenpyroximate	**11.21**	**422**	**135.1**	**53**	**2**
Fenpyroximate	**11.21**	**422**	**366.1**	**23**	**2**

Table 4 - Materials and dilutions to prepare solutions for GC-MS/MS calibration curves

Solution	Concentration	Volume of standard solution	Final volume	Solvent
MRmix1	10 mg L^{-1}	100 µL MRC Restek 1	1 mL	Acetonitrile
MRmix2	10 mg L^{-1}	100 µL MRC Restek 2	1 mL	Acetonitrile
MRmix3	10 mg L^{-1}	100 µL MRC Restek 3	1 mL	Acetonitrile
MRmix4	10 mg L^{-1}	100 µL MRC Restek 4	1 mL	Acetonitrile
MRmix5	10 mg L^{-1}	100 µL MRC Restek 5	1 mL	Acetonitrile
MRmix6	10 mg L^{-1}	100 µL MRC Restek 6	1 mL	Acetonitrile
MRmix7	10 mg L^{-1}	100 µL MRC Restek 7	1 mL	Acetonitrile
MRmix8	10 mg L^{-1}	100 µL MRC Restek 8	1 mL	Acetonitrile
MRmix9	10 mg L^{-1}	100 µL MRC Restek 9	1 mL	Acetonitrile
MRmix	1 mg L^{-1}	100 µL MRmix1 100 µL MRmix2 100 µL MRmix3 100 µL MRmix4 100 µL MRmix5 100 µL MRmix6 100 µL MRmix7 100 µL MRmix8 100 µL MRmix9	1 mL	Acetonitrile
MRsur1 TPP	1000 mg L^{-1}	10 mg di MRC TPP solido	10 mL	Acetonitrile
MRsur2 TPP	10 mg L^{-1}	100 µL MRsur1 TPP (1000 mg L^{-1})	10 mL	Acetonitrile
MRsur3 TPP	1 mg L^{-1}	1 mL MRsur2 TPP (10 mg L^{-1})	10 mL	Acetonitrile
MRcal1	25 µg L^{-1}	25 µL MRmix (1 mg L-1) 25 µL MRsur3 (1 mg L-1)	1 mL	Matrix extract
MRcal2	50 µg L^{-1}	50 µL MRmix (1 mg L-1) 50 µL MRsur3 (1 mg L-1)	1 mL	Matrix extract
MRcal3	75 µg L^{-1}	75 µL MRmix (1 mg L-1) 75 µL MRsur3 (1 mg L-1)	1 mL	Matrix extract
MRcal4	100 µg L^{-1}	100 µL MRmix (1 mg L-1) 100 µL MRsur3 (1 mg L-1)	1 mL	Matrix extract
MRcal5	150 µg L^{-1}	150 µL MRmix (1 mg L-1) 150 µL MRsur3 (1 mg L-1)	1 mL	Matrix extract
MRcal6	300 µg L^{-1}	300 µL MRmix (1 mg L-1) 300 µL MRsur3 (1 mg L-1)	1 mL	Matrix extract

Table 5 - Materials and dilutions to prepare solutions for LC-MS/MS calibration curves.

Solution	Concentration	Volume of standard	Final Volume	Solvent
MRmix1	10 mg L^{-1}	100 µL MRC Restek 1	1 mL	Acetonitrile
MRmix2	10 mg L^{-1}	100 µL MRC Restek 2	1mL	Acetonitrile
MRmix3	10 mg L^{-1}	100 µL MRC Restek 3	1mL	Acetonitrile
MRmix4	10 mg L^{-1}	100 µL MRC Restek 4	1mL	Acetonitrile
MRmix5	10 mg L^{-1}	100 µL MRC Restek 5	1mL	Acetonitrile
MRmix6	10 mg L^{-1}	100 µL MRC Restek 6	1mL	Acetonitrile
MRmix7	10 mg L^{-1}	100 µL MRC Restek 7	1mL	Acetonitrile
MRmix8	10 mg L^{-1}	100 µL MRC Restek 8	1mL	Acetonitrile
MRmix9	10 mg L^{-1}	100 µL MRC Restek 9	1mL	Acetonitrile
MRmix10	10 mg L^{-1}	100 µL MRC Restek 10	1mL	Acetonitrile
MRmix1*	1 mg L^{-1}	100 µL MRmix1 100 µL MRmix2 100 µL MRmix3 100 µL MRmix4 100 µL MRmix5 100 µL MRmix6 100 µL MRmix7 100 µL MRmix8 100 µL MRmix9 100 µL MRmix10	1 mL	Acetonitrile
MRmix2*	0.1 mg L^{-1}	100 µL MRmix1*	1 mL	Acetonitrile
MRsur1 Ethion	1000 mg L^{-1}	10 mg di MRC Ethion solido	10 mL	Acetonitrile
MRsur2 Ethion	10 mg L^{-1}	100 µL MRsur1 Ethion (1000 mg/l)	10 mL	Acetonitrile
MRsur3 Ethion	1 mg L^{-1}	1 mL MRsur2 Ethion (10 mg/l)	10 mL	Acetonitrile
MRsur4 Ethion	0.1 mg L^{-1}	100 µL MRsur3 Ethion (1 mg/l)	1 mL	Acetonitrile
MRcal1	2.5 µg L^{-1}	25 µL MRmix2 (0.1 mg/l) 25 µL MRsur4 (0.1 mg/l)	1 mL	Matrix extract
MRcal2	5 µg L^{-1}	50 µL MRmix2 (0.1 mg/l) 50 µL MRsur4 (0.1 mg/l)	1 mL	Matrix extract
MRcal3	10 µg L^{-1}	10 µL MRmix1 (1 mg/l) 10 µL MRsur3 (1 mg/l)	1 mL	Matrix extract
MRcal4	20 µg L^{-1}	20 µL MRmix1 (1 mg/l) 20 µL MRsur3 (1 mg/l)	1 mL	Matrix extract
MRcal5	40 µg L^{-1}	40 µL MRmix1 (1 mg/l) 40 µL MRsur3 (1 mg/l)	1 mL	Matrix extract
MRcal6	100 µg L^{-1}	100 µL MRmix1 (1 mg/l) 100 µL MRsur3 (1 mg/l)	1 mL	Matrix extract

Figure 1. Calibration curve for Chlorpyrifos. an analyte detectable by GC-MS/MS.

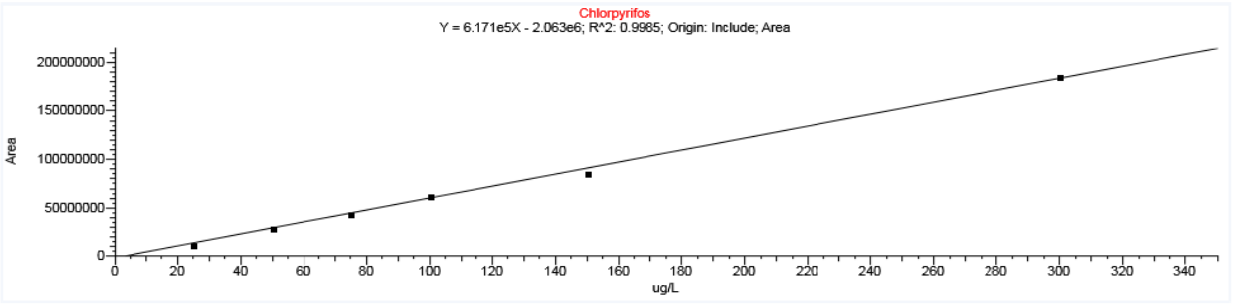

Figure 2. Calibration curve for Etofenprox. an analyte detectable by GC-MS/MS.

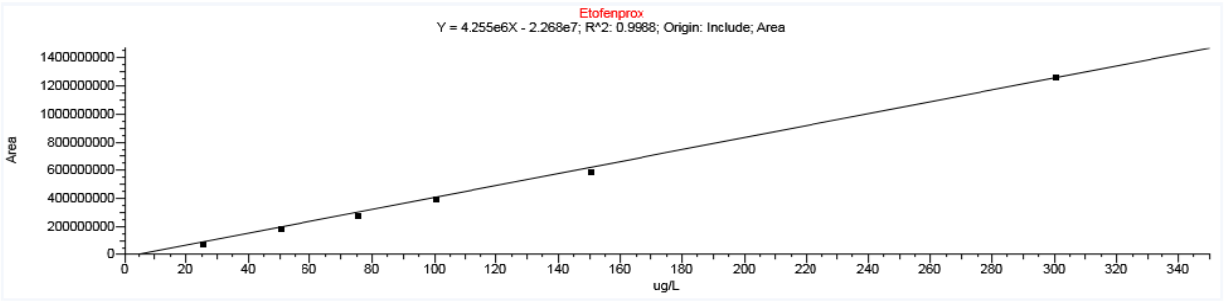

Figure 3. Calibration curve for Acetamiprid. an analyte detectable by LC-MS/MS.

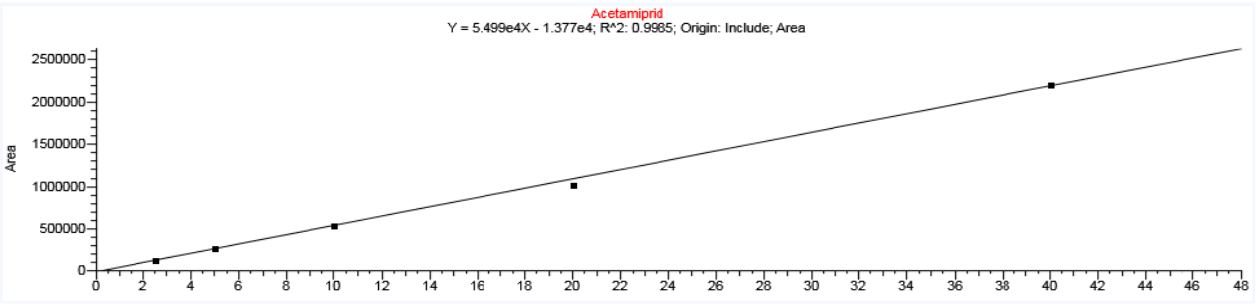

Figure 4. Calibration curve for Tebuconazole. an analyte detectable by LC-MS/MS.

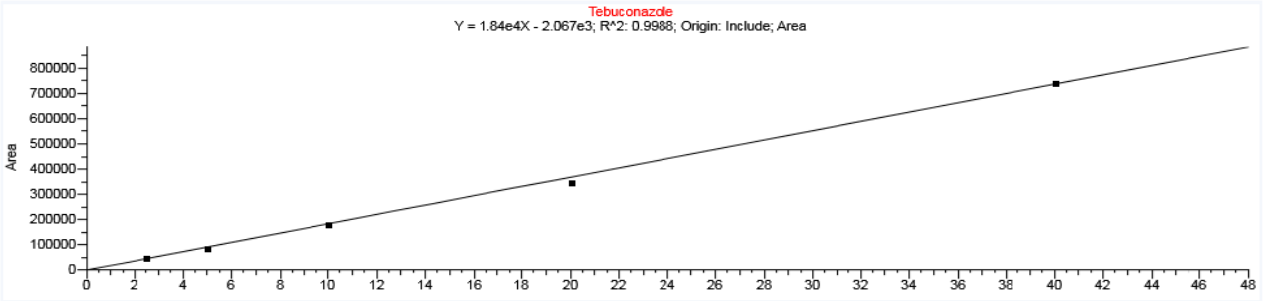

Figure 5. GC-MS/MS chromatogram of the standards

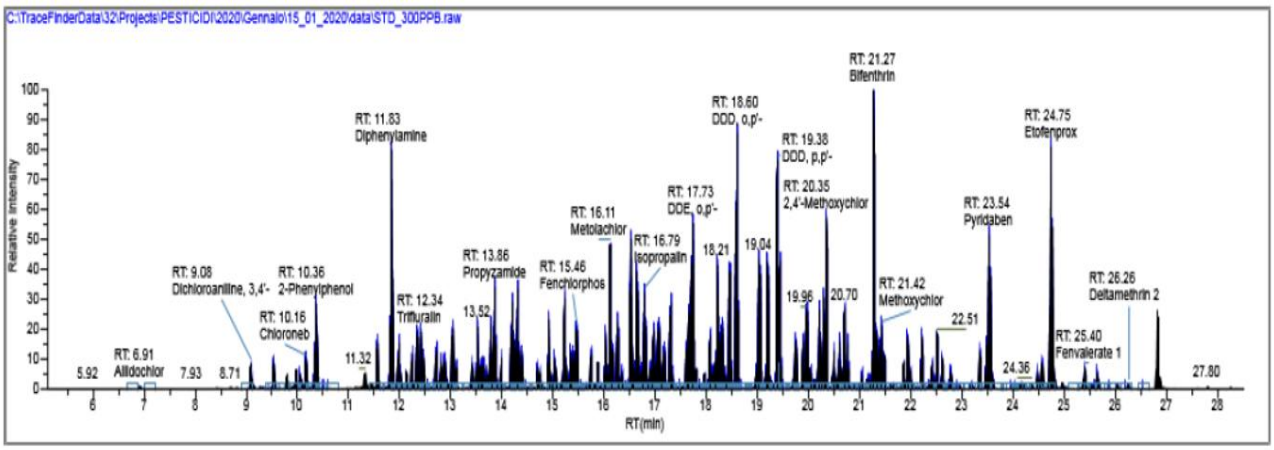

Figure 6. Calibration line. quantifier ion peak. qualifier ion peak and peak overlap of the analyte Chlorpyrifos

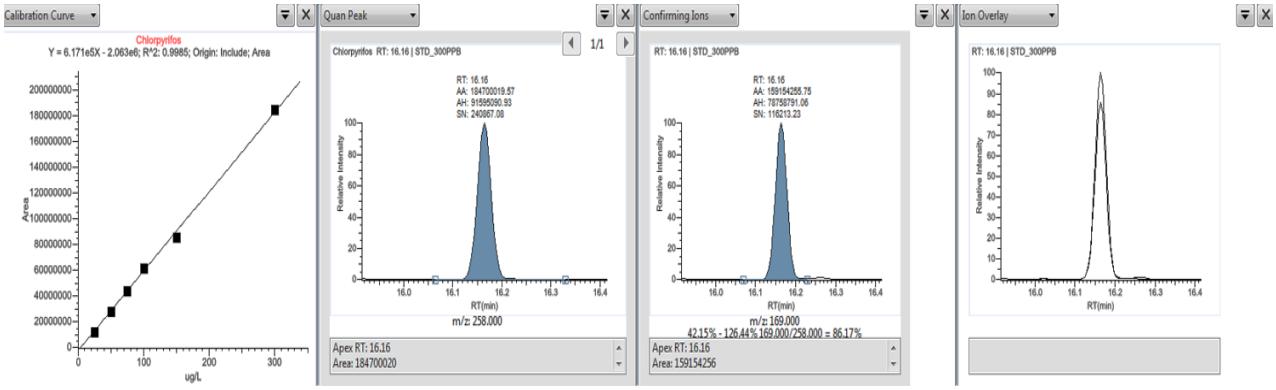

Figure 7. GC-MS/MS chromatogram of the analyzed peach sample. which tested positive for Deltamethrin

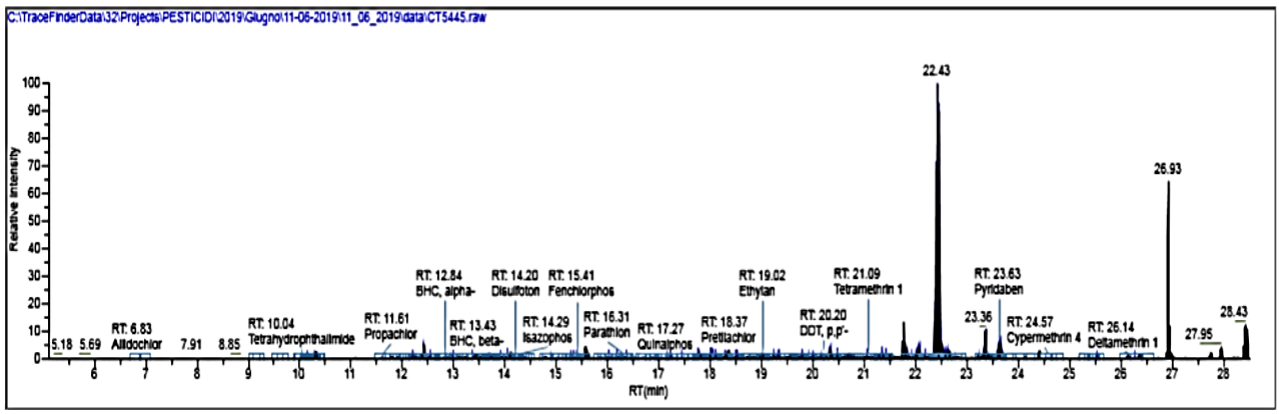

Figure 8. Calibration line. quantifier ion peak. qualifier ion peak and peak overlap of the analyte Deltamethrin. found in the analyzed peach sample.

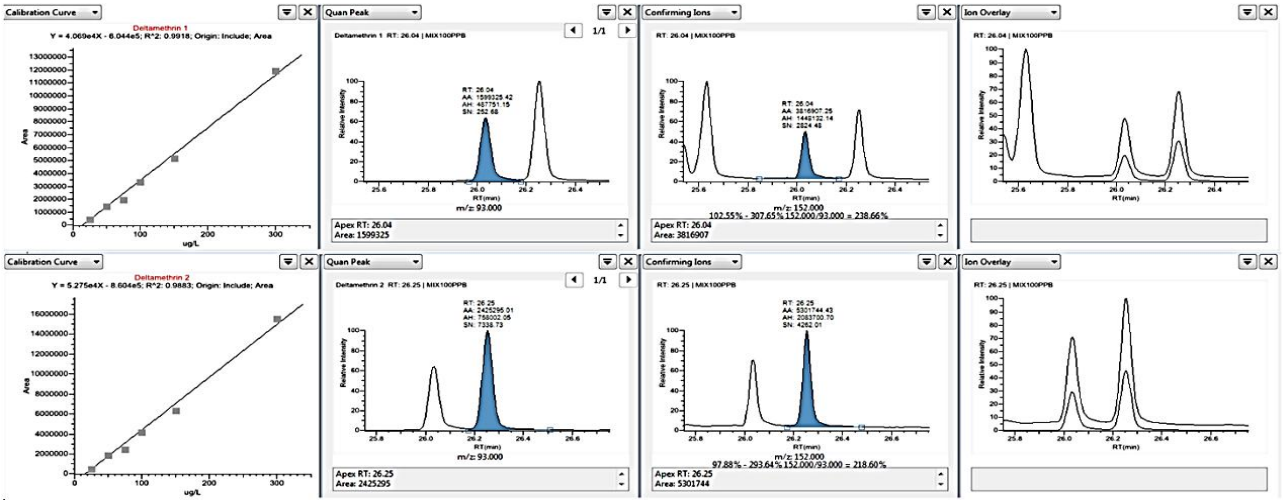

Figure 9. LC-MS/MS chromatogram of the standards

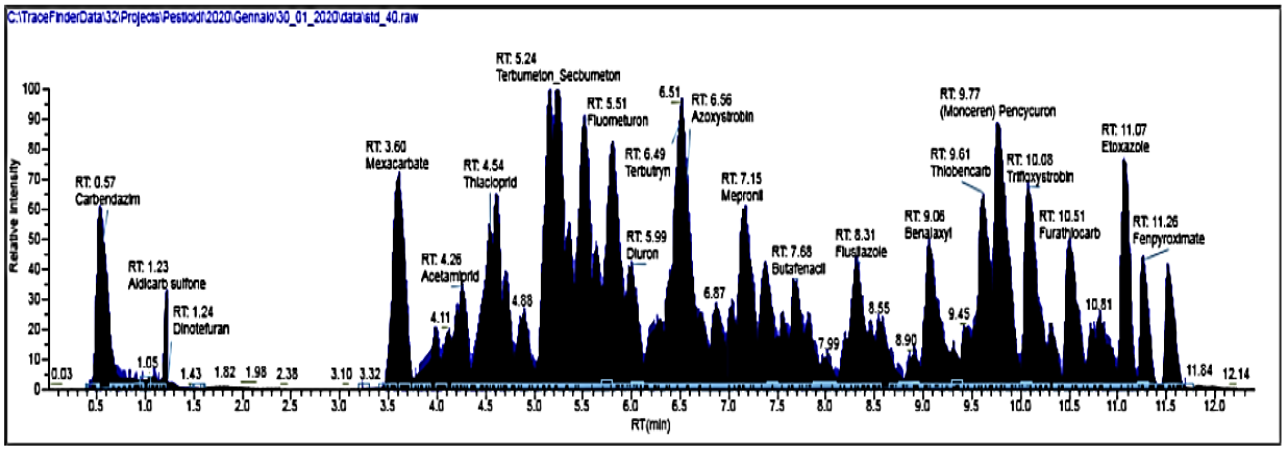

Figure 10. Calibration line. quantifier ion peak. qualifier ion peak and peak overlay of the analyte Tebuconazole.

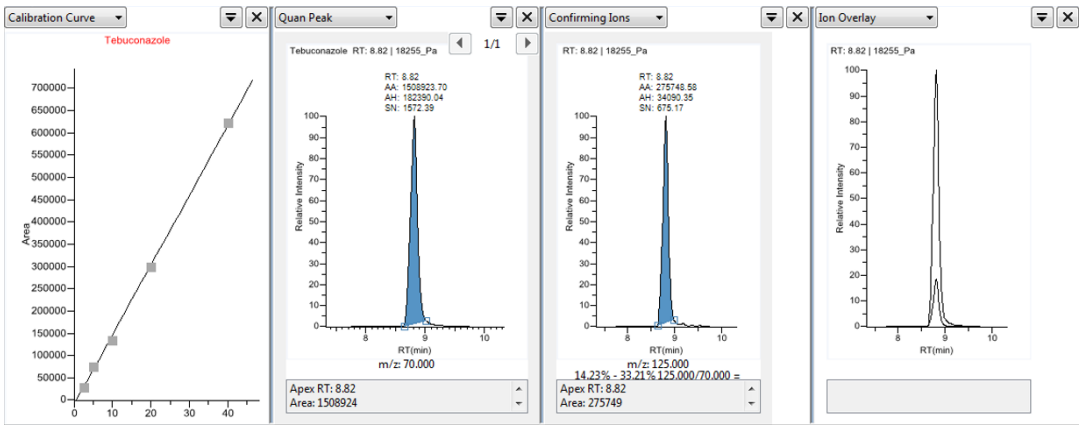

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Figure 11. LC-MS/MS chromatogram of a sample of solanaceous plants (tomatoes. peppers. aubergines) tested positive for Acetamiprid

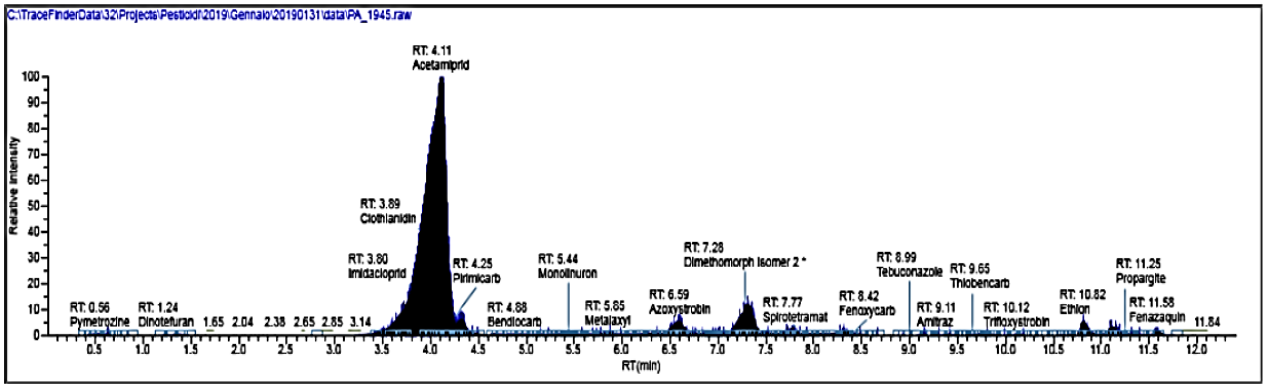

Figure 12. Calibration line. quantifier ion peak. qualifier ion peak and overlap of the peaks of the analyte Acetamiprid. found in the sample of solanaceae plants (tomatoes. peppers. aubergines) analysed

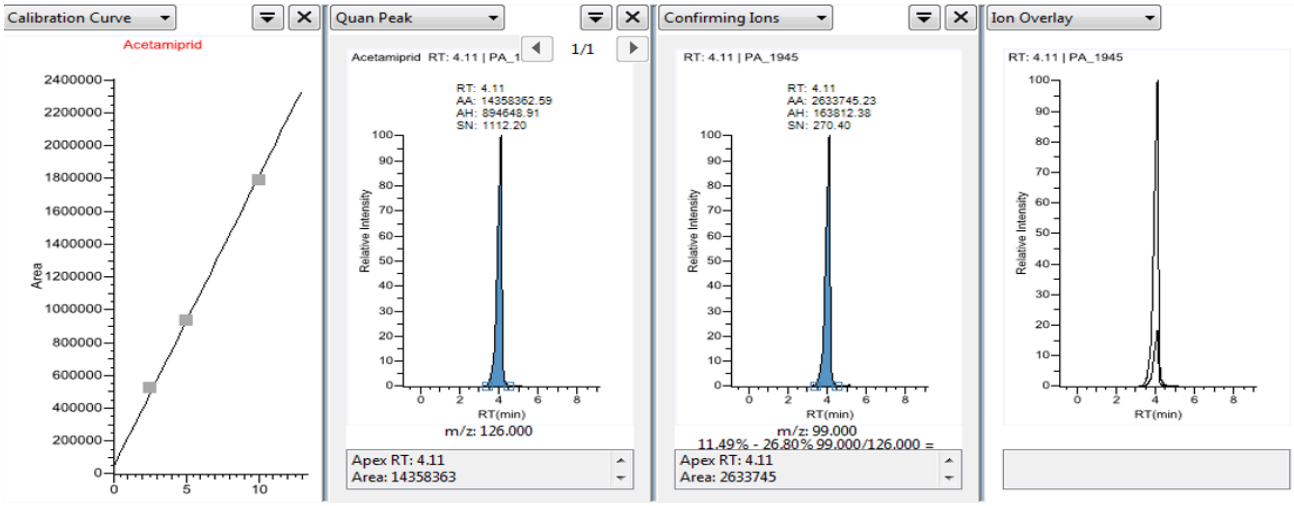

Table 6. - Quantification limits and measurement range obtained on a tomato sample

Active compound	LOQ (mg/Kg)	Range (mg/Kg)	Active compound	LOQ (mg/Kg)	Range (mg/Kg)
2.4'-Methoxychlor	0.005	0.005-0.03	Flucythrinate	0.005	0.005-0.03
2-Phenylphenol	0.005	0.005-0.03	Fludioxonil	0.005	0.005-0.03
4.4'-Methoxychlor olefin	0.005	0.005-0.03	Fluquinconazole	0.005	0.005-0.03
Acetochlor	0.005	0.005-0.03	Fonofos	0.005	0.005-0.03
Acrinathrin	0.005	0.005-0.03	Heptachlor	0.005	0.005-0.03
Alachlor	0.005	0.005-0.03	Hexachlorobenzene	0.005	0.005-0.03
Aldrin	0.005	0.005-0.03	Hexazinone	0.005	0.005-0.03
Aldrin + dieldrin	0.010	0.005-0.03	Iodofenfos	0.005	0.005-0.03
Allidochlor	0.005	0.005-0.03	Iprodione	0.01	0.005-0.03
Azinphos-ethyl	0.005	0.005-0.03	Isopropalin	0.01	0.005-0.03
Azinphos-methyl	0.005	0.005-0.03	Malathion	0.005	0.005-0.03
Benfluralin	0.005	0.005-0.03	Metazachlor	0.005	0.005-0.03
BHC. alpha-	0.005	0.005-0.03	Methacrifos	0.005	0.005-0.03
BHC. beta-	0.005	0.005-0.03	Methoxychlor	0.01	0.005-0.03
BHC. delta	0.005	0.005-0.03	Methyl parathion	0.005	0.005-0.03
BHC. gamma	0.005	0.005-0.03	Metolachlor	0.005	0.005-0.03
Bifenthrin	0.005	0.005-0.03	MGK 264	0.005	0.005-0.03
Bromfenvinphos	0.005	0.005-0.03	Mirex	0.005	0.005-0.03
Bromfenvinphos-methyl	0.01	0.005-0.03	Nitrofen	0.005	0.005-0.03
Bromophos-ethyl	0.005	0.005-0.03	Nonachlor. cis	0.005	0.005-0.03
Bromophos-methyl	0.005	0.005-0.03	Nonachlor. trans	0.005	0.005-0.03
Bromopropylate	0.005	0.005-0.03	Norflurazon	0.005	0.005-0.03
Carbophenothion	0.005	0.005-0.03	Oxadiazon	0.005	0.005-0.03
Carfentrazone ethyl	0.005	0.005-0.03	Oxyfluorfen	0.01	0.005-0.03
Chlorbenside	0.005	0.005-0.03	Parathion	0.005	0.005-0.03
Chlordane. cis	0.005	0.005-0.03	Pebulate	0.005	0.005-0.03
Chlordane. trans	0.01	0.005-0.03	Penconazole	0.005	0.005-0.03
Clordano (somma di cis- e trans-clordano)	0.015	0.005-0.03	Pentachlorobenzene	0.005	0.005-0.03
Chlorfenson	0.005	0.005-0.03	Pentachlorobenzonitrile	0.005	0.005-0.03
Chlorfenvinphos (I+II)	0.005	0.005-0.03	Pentachlorothioanisole	0.005	0.005-0.03
Chloroneb	0.005	0.005-0.03	Permethrin. cis	0.005	0.005-0.03
Chlorpropham	0.005	0.005-0.03	Permethrin. trans	0.005	0.005-0.03
Chlorpyrifos	0.005	0.005-0.03	Phenothrin	0.005	0.005-0.03
Chlorpyrifos-methyl	0.005	0.005-0.03	Phorate	0.005	0.005-0.03
Chlorthiophos	0.005	0.005-0.03	Phosalone	0.005	0.005-0.03
Chlozolinate	0.005	0.005-0.03	Piperonyl Butoxide	0.005	0.005-0.03
Clomazone	0.005	0.005-0.03	Pirimiphos-ethyl	0.005	0.005-0.03
Coumaphos	0.005	0.005-0.03	Pirimiphos-methyl	0.005	0.005-0.03
Cycloate	0.005	0.005-0.03	Pretilachlor	0.005	0.005-0.03
Cyfluthrin (somma di isomeri)	0.005	0.005-0.03	Profenofos	0.005	0.005-0.03
Cyhalothrin. lambda	0.005	0.005-0.03	Profluralin	0.005	0.005-0.03
Cypermethrin (somma di isomeri)	0.005	0.005-0.03	Propachlor	0.005	0.005-0.03
DDD. o.p'	0.005	0.005-0.03	Propisochlor	0.005	0.005-0.03
DDD. p.p'	0.005	0.005-0.03	Propyzamide	0.005	0.005-0.03
DDE. o.p'	0.005	0.005-0.03	Prothiofos	0.005	0.005-0.03
DDE. p.p'	0.005	0.005-0.03	Pyraclofos	0.005	0.005-0.03
DDT. o.p'	0.005	0.005-0.03	Pyrazophos	0.005	0.005-0.03
DDT. p.p'	0.005	0.005-0.03	Pyridaben	0.005	0.005-0.03
Dichloroaniline. 3.4'-	0.005	0.005-0.03	Pyridaphenthion	0.01	0.005-0.03
Dichlorobenzophenone. 4.4'	0.005	0.005-0.03	Pyriproxyfen	0.005	0.005-0.03
Dieldrin	0.01	0.005-0.03	Quintozene	0.005	0.005-0.03
Diphenylamine	0.005	0.005-0.03	Resmethrin isomeri	0.005	0.005-0.03
Disulfoton	0.005	0.005-0.03	Sulfotep	0.005	0.005-0.03
Endosulfan ether	0.005	0.005-0.03	Sulprofos	0.005	0.005-0.03
Endosulfan I	0.01	0.005-0.03	tau-Fluvalinate	0.005	0.005-0.03
Endosulfan II	0.01	0.005-0.03	Tebufenpyrad	0.005	0.005-0.03
Endosulfan sulfate	0.005	0.005-0.03	Tecnazene	0.005	0.005-0.03
Endrin	0.005	0.005-0.03	Tefluthrin	0.005	0.005-0.03
EPN	0.005	0.005-0.03	Terbacil	0.005	0.005-0.03

Ethalfluralin	0.005	0.005-0.03	Terbufos	0.005	0.005-0.03
Ethylan	0.005	0.005-0.03	Terbutylazine	0.005	0.005-0.03
Etofenprox	0.005	0.005-0.03	Tetrachloroan. 2.3.5.6-	0.005	0.005-0.03
Fenamiphos	0.005	0.005-0.03	Tetradifon	0.005	0.005-0.03
Fenchlorphos	0.005	0.005-0.03	Tetrahydrophthalimide	0.005	0.005-0.03
Fenpropathrin	0.005	0.005-0.03	Tetramethrin	0.005	0.005-0.03
Fenson	0.005	0.005-0.03	Tolclofos-methyl	0.005	0.005-0.03
Fenthion	0.005	0.005-0.03	Transfluthrin	0.005	0.005-0.03
Fenvalerate	0.005	0.005-0.03	Triallate	0.005	0.005-0.03
Fipronil	0.01	0.005-0.03	Trifluralin	0.005	0.005-0.03
Fluazifop-P-butyl	0.005	0.005-0.03			
Fluchloralin	0.005	0.005-0.03			

Table 7 - Detection limits. quantification limits and measurement range obtained on a tomato sample

Active compound	LOD	LOQ	Range	Active compound	LOD	LOQ	Range
	(mg/Kg)	(mg/Kg)	(mg/Kg)		(mg/Kg)	(mg/Kg)	(mg/Kg)
Acetamiprid	0.00028	0.00092	0.005 – 0.040	Lufenuron	0.00084	0.00277	0.005 – 0.040
Azoxystrobin	0.00042	0.0014	0.005 – 0.040	Mandipropamid	0.00082	0.0027	0.005 – 0.040
Bifenazate	0.00035	0.00116	0.005 – 0.040	Mepanipyrim	0.00076	0.0025	0.005 – 0.040
Boscalid	0.00045	0.00148	0.005 – 0.040	Metaflumizone	0.00063	0.002.08	0.005 – 0.040
Bupirimate	0.00068	0.00224	0.005 – 0.040	Metalaxyl	0.00020	0. 00067	0.005 – 0.040
Buprofezin	0.00051	0.00167	0.005 – 0.040	Methamidophos	0.00058	0.00191	0.005 – 0.040
Carbendazim	0.00044	0.00145	0.005 – 0.040	Methiocarb	0.00064	0.00211	0.005 – 0.040
Clethodim	0.00032	0.00106	0.005 – 0.040	Methoxyfenozide	0.00174	0.00577	0.005 – 0.040
Cyazofamid	0.00021	0. 00071	0.005 – 0.040	Myclobutanil	0.00061	0.00202	0.005 – 0.040
Cymoxanil	0.00062	0.00206	0.005 – 0.040	Neburon	0.00025	0. 00082	0.005 – 0.040
Cyproconazole	0.00055	0.00181	0.005 – 0.040	Nitenpyram	0.00059	0.00194	0.005 – 0.040
Cyprodinil	0.00064	0.0021	0.005 – 0.040	Omethoate	0.00025	0. 00083	0.005 – 0.040
Difenoconazole	0.00034	0.00113	0.005 – 0.040	Pirimicarb	0.00018	0. 00058	0.005 – 0.040
Dimethoate	0.00038	0.00124	0.005 – 0.040	Prochloraz	0.00070	0.00231	0.005 – 0.040
Dimethomorph	0.00058	0.00192	0.005 – 0.040	Propamocarb	0.00030	0. 00099	0.005 – 0.040
Dinotefuran	0.00056	0.00184	0.005 – 0.040	Propargite	0.00070	0.00232	0.005 – 0.040
Etaconazole	0.00013	0. 00043	0.005 – 0.040	Propiconazole	0.00043	0.00142	0.005 – 0.040
Ethirimol	0.00098	0.00323	0.005 – 0.040	Pymetrozine	0.00034	0.00114	0.005 – 0.040
Ethofumesate	0.00082	0.00271	0.005 – 0.040	Pyraclostrobin	0.00082	0.00272	0.005 – 0.040
Etoxazole	0.0002	0. 00067	0.005 – 0.040	Pyrimethanil	0.00059	0.00194	0.005 – 0.040
Fenarimol	0.00068	0.00226	0.005 – 0.040	Quinoxyfen	0.00049	0.00162	0.005 – 0.040
Fenbuconazole	0.0012	0.00395	0.005 – 0.040	Spinosad (Spinosyn A)	0.00083	0.00274	0.005 – 0.040
Fenhexamid	0.00061	0.00202	0.005 – 0.040	Spiromesifen	0.00126	0.00417	0.005 – 0.040
Fenpropimorph	0.00039	0.00129	0.005 – 0.040	Spirotetramat	0.00126	0.00415	0.005 – 0.040
Fenpyroximate	0.00052	0.00172	0.005 – 0.040	Tebufenozide	0.00117	0.00385	0.005 – 0.040
Flubendiamide	0.00067	0.00222	0.005 – 0.040	Tebufenpyrad	0.00144	0.00474	0.005 – 0.040
Fluometuron	0.00024	0.0008	0.005 – 0.040	Tetraconazole	0.00048	0.00158	0.005 – 0.040
Flutriafol	0.00116	0.00382	0.005 – 0.040	Thiacloprid	0.00023	0. 00077	0.005 – 0.040
Formetanate HCl	0.00051	0.00168	0.005 – 0.040	Thiophanate-methyl	0.00051	0.00169	0.005 – 0.040
Hexythiazox	0.00078	0.00259	0.005 – 0.040	Thiophanate-methyl	0.00039	0.00129	0.005 – 0.040
Imazalil	0.00076	0.00249	0.005 – 0.040	Trifloxystrobin	0.00052	0.00170	0.005 – 0.040
Imidacloprid	0.00087	0.00287	0.005 – 0.040	Triflumizole	0.00118	0.00391	0.005 – 0.040
Imidacloprid	0.00026	0. 00087	0.005 – 0.040	Triflumuron	0.00066	0.00216	0.005 – 0.040
Indoxacarb	0.00092	0.00302	0.005 – 0.040	Triticonazole	0.00058	0.00192	0.005 – 0.040
Iprovalicarb	0.00125	0.00413	0.005 – 0.040	Zoxamide	0.00038	0.00124	0.005 – 0.040
Linuron	0.00084	0.00277	0.005 – 0.040				

Table 8 - Validation data obtained on a tomato sample fortified at LOQ

Active compound	Mean	Uncertainty	Repeatability	Recovery	Active compound	Mean	Uncertainty	Repeatability	Recovery
	(mg/Kg)	(±mg/Kg)	(mg/Kg)	%		(mg/Kg)	(±mg/Kg)	(mg/Kg)	%
Acetamiprid	0.00415	0.00208	0.00071	83.0	Metaflumizone	0.00364	0.00182	0.00169	72.7
Azoxystrobin	0.00392	0.00196	0.00043	78.3	Metalaxyl	0.00436	0.00218	0.00114	87.1
Bifenazate	0.00422	0.00211	0.00122	84.4	Methamidophos	0.00392	0.00196	0.00118	78.5
Boscalid	0.00429	0.00215	0.00045	85.8	Methiocarb	0.00456	0.00228	0.00124	91.2
Buprofezin	0.00472	0.00236	0.00113	94.5	Methoxyfenozide	0.0052	0.0026	0. 00074	104.0
Carbendazim	0.00454	0.00227	0.00021	90.7	Metribuzin	0.00473	0.00237	0.00222	94.6
Chlorantraniliprole	0.00510	0.00255	0.00113	102.1	Neburon	0.00428	0.00214	0.00177	85.7
Clethodim	0.00341	0.00171	0.00152	68.2	Nitenpyram	0.00454	0.00227	0. 00020	90.9
Clothianidin	0.00436	0.00218	0. 00046	87.2	Omethoate	0.00348	0.00174	0. 00015	69.6
Cyazofamid	0.00475	0.00238	0.00120	95.0	Pirimicarb	0.0045	0.00225	0. 00047	90.0
Cymoxanil	0.00517	0.00259	0.00223	103.4	Prochloraz	0.00497	0.00249	0.00159	99.4
Cyproconazole	0.00412	0.00206	0. 00076	82.3	Propamocarb	0.00305	0.00153	0. 00003	62.1
Cyprodinil	0.00444	0.00222	0. 00057	88.8	Propargite	0.00481	0.00241	0.00119	96.3
Difenoconazole	0.00480	0.00240	0. 00082	96.0	Propiconazole	0.00427	0.00214	0.00118	85.4
Dimethoate	0.00411	0.00206	0.00052	82.2	Pymetrozine	0.00349	0.00175	0.0002	69.9
Dimethomorph	0.00435	0.00218	0.00209	86.9	Pyraclostrobin	0.00416	0.00208	0.00056	83.2
Dinotefuran	0.00509	0.00255	0. 00040	101.8	Pyrimethanil	0.00453	0.00227	0. 00071	90.6
Etaconazole	0.00427	0.00214	0. 00061	85.4	Quinoxyfen	0.00451	0.00226	0.00105	90.1
Ethirimol	0.00374	0.00187	0.00230	74.8	Spinosad A	0.0046	0.0023	0. 00067	92.1
Ethofumesate	0.00471	0.00236	0.00121	94.2	Spiromesifen	0.00464	0.00232	0.00192	92.8
Fenarimol	0.00511	0.00256	0.00161	102.1	Spirotetramat	0.00491	0.00246	0.00219	98.2
Fenbuconazole	0.00445	0.00223	0. 00077	89.1	Spiroxamine	0.00418	0.00209	0.00159	83.7
Fenpropimorph	0.00425	0.00213	0. 00059	85.0	Tebuconazole	0.00399	0.002	0. 00019	79.8
Fenpyroximate	0.00458	0.00229	0. 00054	91.5	Tebufenozide	0.00496	0.00248	0. 00098	99.2
Flubendiamide	0.00469	0.00235	0. 00063	93.8	Tebufenpyrad	0.00469	0.00235	0.00136	93.8
Fluometuron	0.00416	0.00208	0. 00026	83.1	Tetraconazole	0.00443	0.00222	0. 00065	88.6
Flutriafol	0.00431	0.00216	0.0014	86.2	Thiacloprid	0.00463	0.00232	0. 00012	92.6
Formetanate HCl	0.00375	0.00188	0. 00039	75.0	Thiophanate-met	0.00491	0.00246	0. 00051	98.2
Hexythiazox	0.00413	0.00207	0. 00071	82.7	Thiophanate-met	0.00396	0.00198	0. 00029	79.2
Imidacloprid	0.00496	0.00248	0. 00045	99.3	Trifloxystrobin	0.00444	0.00222	0.0024	88.7
Indoxacarb	0.00481	0.00241	0.00101	96.2	Triflumizole	0.00496	0.00248	0. 00068	99.2
Iprovalicarb	0.00459	0.0023	0.00111	91.8	Triflumuron	0.00462	0.00231	0.00055	92.5
Linuron	0.00468	0.00234	0.00157	93.5	Triticonazole	0.00445	0.00223	0.00051	89.0
Lufenuron	0.00495	0.00248	0. 00099	98.9	Zoxamide	0.00438	0.00219	0.00071	87.7
Mandipropamid	0.00503	0.00252	0.0012	100.6					

Table 9 -Validation data obtained on a tomato sample fortified to double the LOQ

Active compound	Mean	Uncertainty	Repeatability	Recovery	Active compound	Mean	Uncertainty	Repeatability	Recovery
	(mg/Kg)	(±mg/Kg)	(mg/Kg)	%		(mg/Kg)	(±mg/Kg)	(mg/Kg)	%
Acetamiprid	0.00955	0.00478	0. 00008	95.5	Mepanipyrim	0.00962	0.00481	0.00137	96.2
Azoxystrobin	0.00856	0.00428	0. 00060	85.6	Metaflumizone	0.00845	0.00423	0.00321	84.5
Bifenazate	0.01006	0.00503	0.00190	100.6	Metalaxyl	0.00907	0.004535	0. 00070	90.7
Boscalid	0.01055	0.00528	0.00150	105.5	Methamidophos	0.00767	0.003835	0. 00074	76.7
Bupirimate	0.01026	0.00513	0.00214	102.6	Methiocarb	0.00967	0.004835	0. 00069	96.7
Buprofezin	0.01016	0.00508	0. 00052	101.6	Methoxyfenozide	0.00889	0.004445	0.00445	88.9
Chlorantraniliprole	0.01090	0.00545	0.00172	109.0	Metribuzin	0.00989	0.004945	0. 00087	98.9
Clethodim	0.00744	0.00372	0. 00071	74.4	nMyclobutanil	0.01019	0.005095	0.00138	101.9
Clothianidin	0.00957	0.00479	0. 00094	95.7	Neburon	0.00972	0.00486	0.00192	97.2
Cyazofamid	0.01041	0.00521	0. 00081	104.1	Nitenpyram	0.00713	0.003565	0.0021	71.3
Cymoxanil	0.01142	0.00571	0.00498	114.2	Omethoate	0.00793	0.003965	0. 00076	79.3
Cyproconazole	0.00952	0.00476	0. 00087	95.2	Pirimicarb	0.01037	0.005185	0. 00087	103.7
Cyprodinil	0.00998	0.00499	0. 00081	99.8	Prochloraz	0.01102	0.00551	0.00197	110.2
Difenoconazole	0.01085	0.00543	0.00224	108.5	Propamocarb	0.00697	0.003485	0. 00016	69.7
Dimethoate	0.00957	0.00479	0. 00067	95.7	Propargite	0.01052	0.00526	0. 00083	105.2
Dimethomorph	0.00107	0.00053	0.00154	106.7	Propiconazole	0.00942	0.00471	0.00042	94.2
Dinotefuran	0.00867	0.00434	0.00208	86.7	Pymetrozine	0.00701	0.003505	0.00048	70.1
Etaconazole	0.00981	0.00491	0. 00053	98.1	Pyraclostrobin	0.00882	0.00441	0.00218	88.2
Ethirimol	0.0083	0.00415	0.00454	83.0	Pyrimethanil	0.01041	0.00521	0.00124	104.1
Ethofumesate	0.00928	0.00464	0.00556	92.8	Quinoxyfen	0.00949	0.00475	0.00106	94.9
Etoxazole	0.00918	0.00459	0. 00086	91.8	Spinosad	0.00809	0.00405	0.00102	80.9
Fenarimol	0.00947	0.00474	0.0035	94.7	Spiromesifen	0.00946	0.00473	0.00354	94.6
Fenbuconazole	0.01025	0.00513	0.00306	102.5	Spirotetramat	0.0094	0.0047	0.00217	94.0
Fenhexamid	0.00986	0.00493	0.00205	98.6	Spiroxamine	0.00938	0.00469	0.00131	93.8
Fenpropimorph	0.01029	0.00515	0.00103	102.9	Tebuconazole	0.01022	0.00511	0. 00040	102.2
Fenpyroximate	0.01021	0.00511	0. 00058	102.1	Tebufenozide	0.01106	0.00553	0.00386	110.6
Flubendiamide	0.01037	0.00519	0.00367	103.7	Tebufenpyrad	0.01039	0.0052	0.00163	103.9
Fluometuron	0.00969	0.00485	0. 00073	96.9	Tetraconazole	0.00991	0.00496	0. 00095	99.1
Flutriafol	0.01026	0.00513	0.00185	102.6	Thiacloprid	0.01022	0.00511	0. 00067	102.2
Hexythiazox	0.01009	0.00505	0.00179	100.9	Thiophanate-met	0.01043	0.00522	0.00139	104.3
Hydramethylnon	0.00923	0.00462	0.00171	92.3	Thiophanate-met	0.01125	0.00563	0.00203	112.5
Imazalil	0.01025	0.00513	0. 00052	102.5	Trifloxystrobin	0.00953	0.00477	0.00589	95.3
Imidacloprid	0.01059	0.0053	0.00112	105.9	Triflumizole	0.0106	0.0053	0.00136	106.0
Indoxacarb	0.01028	0.00514	0.00183	102.8	Triflumuron	0.01106	0.00553	0. 00076	110.6
Iprovalicarb	0.00994	0.00497	0.00172	99.4	Triticonazole	0.0101	0.00505	0. 00047	101.0
Lufenuron	0.01015	0.00508	0.00226	101.5	Zoxamide	0.00993	0.00497	0.00124	99.3
Mandipropamid	0.00945	0.00473	0.00388	94.5					

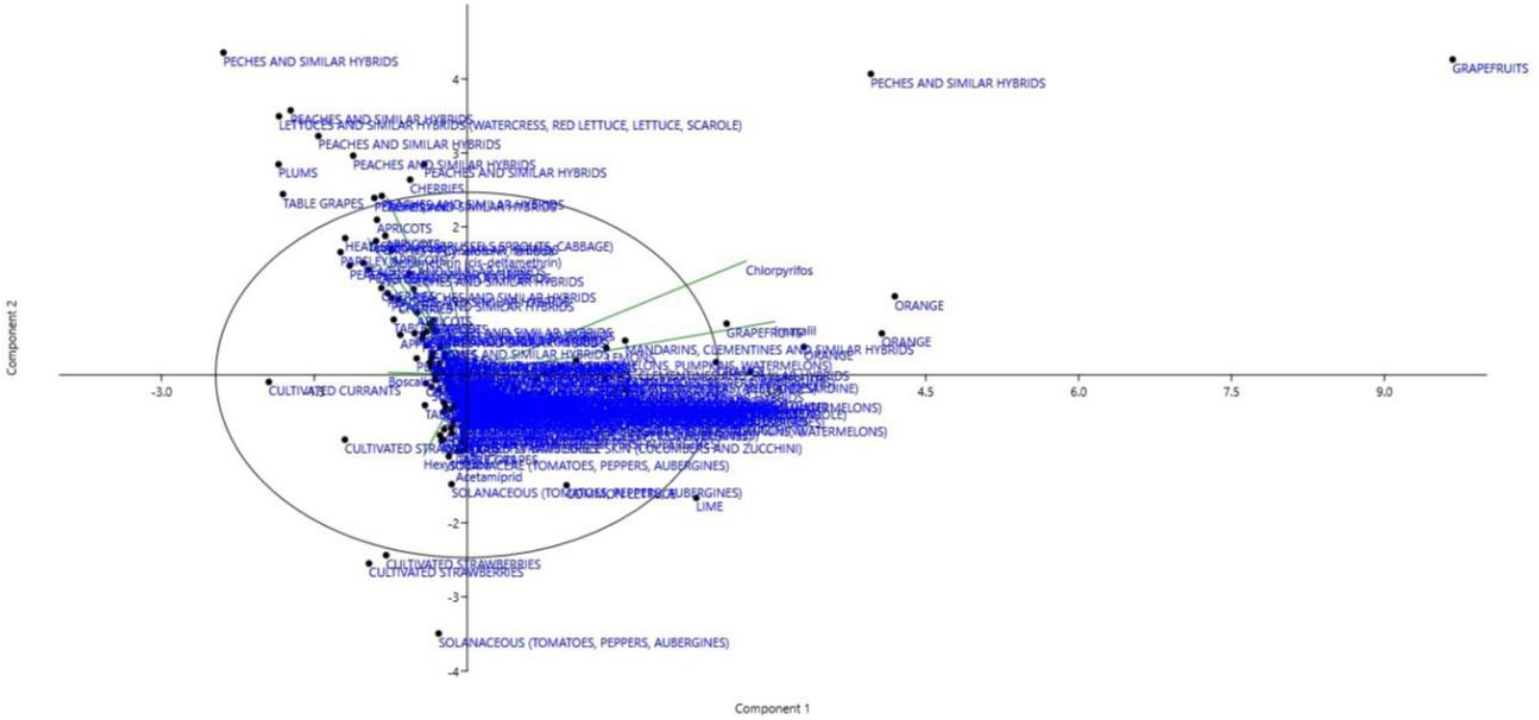

Figure 13 - Correlation matrix

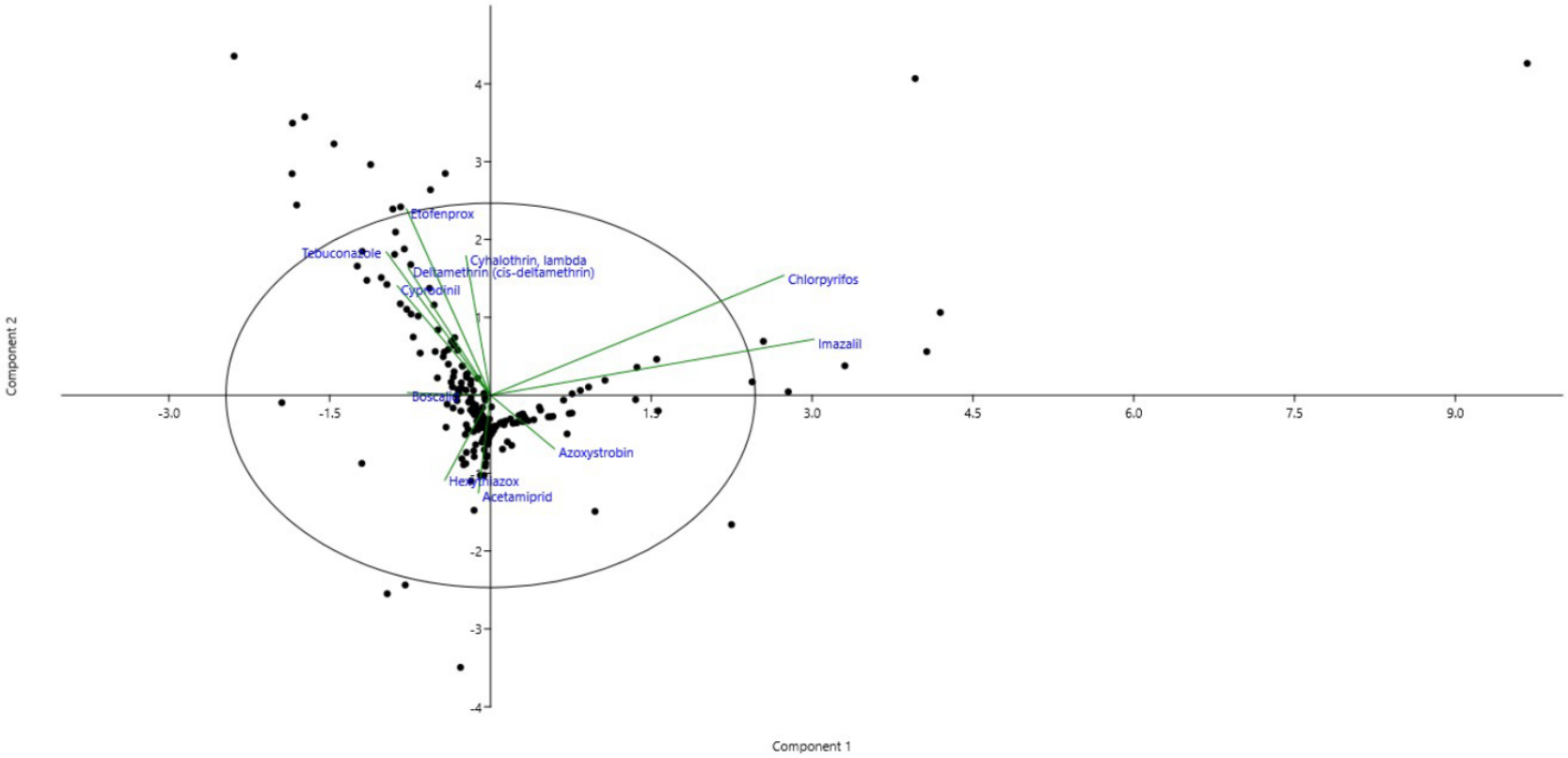

Figure 14 - Principal Component Analysis