SUPPLEMENTARY DATA

A THREE YEAR STUDY FOR THE SPATIAL AND TEMPORAL DISTRIBUTION/VARIATION OF PESTICIDES RESIDUES IN VIOTIKOS KIFISSOS BASIN BEFORE AND AFTER THE APPLICATION OF A LOW INPUT CROP MANAGEMENT SYSTEM

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Table 1S: Name, pesticide class, mode of action, octanol-water partition coefficient as the log value (pKow) and vapour pressure (Vp) of the studied analytes

Name	Pesticide class	Mode of action	pKow	Vp (mPa)
acetamiprid	neonicotinoid	insecticide	0.8	1.00E-03
acetochlor	chloroacetamide	herbicide	4.14	6.00E+00
aclonifen	diphenyl ether	herbicide	4.37	1.60E-02
acrinathrin	pyrethrin	insecticide	5.6	4.40E-05
alachlor	chloroacetamide	herbicide	3.09	2.00E+00
aldicarb sulfone	carbamate	insecticide	-0.57	
ametryn	triazine	herbicide	2.63	3.65E-01
atrazine	triazine	herbicide	2.5	1.50E-04
azimsulfuron	sulfonylurea	herbicide	4.43	4.00E-06
azinphos ethyl	organophosphate	insecticide	3.18	3.20E-01
azinphos methyl	organophosphate	insecticide	2.96	5.00E-04
azoxystrobin	strobilurin	fungicide	2.5	1.10E-07
benalaxyl	acylalanine	fungicide	3.54	6.60E-01
benfuracarb	carbamate	insecticide	4.22	1.00E-02
bensulfuron methyl	sulfonylurea	herbicide	-0.99	2.80E-09
benzoximate	other	acaricide	2.4	4.50E-01
bifenthrin	pyrethrin	insecticide	6.6	2.40E-02
bitertanol	triazole	fungicide	4.1	2.20E-07
boscalid	carboxamide	fungicide	2.96	7.20E-04
bromophos ethyl	organophosphate	insecticide	6.13	-
bromopropylate	benzilate	acaricide	5.4	6.80E-03
bromuconazole	triazole	fungicide	3.24	4.00E-03
bupirimate	pyrimidinol	fungicide	3.9	1.00E-01
buprofezin	other	insecticide	4.3	1.25E+00
cadusafos	organophosphate	insecticide	3.9	1.20E+02
carbofuran	carbamate	insecticide	1.52	3.10E-02
chlorbromuron	urea	herbicide	2.9	-
chlordane alpha	cyclodiene	insecticide	5.57	1.30E+00
chlordane gamma	cyclodiene	insecticide	5.57	1.30E+00
chlorfenapyr	arylpyrrole	insecticide	4.83	1.20E-02
chlorfenvinfos	organophosphate	insecticide	3.85	1.00E+00
chlorobenzilate	organochlorine	acaricide	4.58	-
chlorothalonil	chloronitrile	fungicide	2.92	7.60E-02
chlorotoluron	urea	herbicide	2.5	5.00E-03
chlorpropham	carbamate	herbicide	3.79	2.40E+01
chlorpyrifos	organophosphate	insecticide	4.7	2.70E+00
chlorpyrifos methyl	organophosphate	insecticide	4.24	3.00E+00
chlorsulfuron	sulfonylurea	herbicide	-0.99	3.00E-06
clofentezine	tetrazine	acaricide	4.1	1.30E-04
clothianidin	neonicotinoid	insecticide	0.7	1.30E-04
cyfluthrin	pyrethrin	insecticide	6	9.60E-04
cypermethrin	pyrethrin	insecticide	6.6	2.00E-04

cyproconazole	triazole	fungicide	3.1	2.60E-02
cyprodinil	anilinopyrimidine	fungicide	3.9	5.10E-01
<i>o, p'</i> - DDD	organochlorine	<i>degradation product</i>	5.39	-
<i>p, p'</i> - DDD	organochlorine	<i>degradation product</i>	5.39	-
<i>o, p'</i> - DDE	organochlorine	<i>degradation product</i>	6.2	-
<i>p, p'</i> - DDE	organochlorine	<i>degradation product</i>	6.2	-
<i>o, p'</i> - DDT	organochlorine	insecticide	5.92	2.50E-02
<i>p, p'</i> - DDT	organochlorine	insecticide	5.92	2.50E-02
deltamethrin	pyrethrin	insecticide	4.6	1.24E-05
desethylterbuthylazine	triazine	<i>degradation product</i>	1.85	-
desmetryn	other	herbicide	2.38	1.33E-01
diazinon	organophosphate	insecticide	3.3	1.20E+01
dicloran	aromatic hydrocarbon	fungicide	2.8	1.60E-01
dicofol	other	acaricide	4.3	5.30E-02
dieldrin	cyclodiene	insecticide	4.88	-
difenoconazole	triazole	fungicide	4.4	3.30E-05
dimethenamide-P	chloroacetamide	herbicide	1.89	2.51E+00
dimethoate	organophosphate	insecticide	0.704	2.50E-01
dimethomorph	cinnamic acid	fungicide	2.63	9.70E-04
diniconazole	triazole	fungicide	4.3	2.93E+00
dinitramine	dinitroaniline	herbicide	4.3	4.79E-01
disulfoton sulfone	organophosphate	insecticide	3.95	-
diuron	urea	herbicide	2.85	1.10E-03
dodemorph	morpholine	fungicide	4.14	4.80E-02
alpha- endosulfan	cyclodiene	insecticide	4.74	8.30E-01
beta- endosulfan	cyclodiene	insecticide	4.79	8.30E-01
endosulfan sulfate	cyclodiene	insecticide	3.18	-
epoxiconazole	triazole	fungicide	3.44	1.00E-02
esfenvalerate	pyrethrin	insecticide	6.22	2.00E-04
ethalfluralin	dinitroaniline	herbicide	5.11	1.17E+01
ethion	organophosphate	insecticide	4.28	2.00E-01
ethofumesate	benzofuran	herbicide	2.7	1.00E-01
ethoprophos	organophosphate	insecticide	3.59	4.65E+01
etoxazole		acaricide	5.59	2.18E-03
fenamidone	imidazolinone	fungicide	2.8	3.40E-04
fenamiphos	organophosphate	nematicide	3.3	1.20E-01
fenamiphos sulfone	organophosphate	nematicide		
fenarimol	pyrimidine	fungicide	3.69	6.50E-02
fenazaquin	other	acaricide	5.51	3.40E-03
fenbuconazole	triazole	fungicide	3.23	3.40E-01
fenhexamide	hydroxyanilide	fungicide	3.51	4.00E-04
fenitrothion	organophosphate	insecticide	3.43	1.80E+01
fenoxycarb	carbamate	insecticide	4.07	8.67E-04
fenpropathrin	pyrethrin	insecticide	6	7.30E-01
fensulfothion	organophosphate	insecticide	2.23	-
fensulfothionoxon	organophosphate	<i>degradation product</i>	0.82	-

fensulfothionoxon sulfone	organophosphate	<i>degradation product</i>	-	
fensulfothion sulfone	organophosphate	<i>degradation product</i>	2.43	-
fenthion	organophosphate	insecticide	4.84	7.40E-01
fenthion sulfone	organophosphate	<i>degradation product</i>	1.83	
fenvalerate	pyrethrin	insecticide	5.01	1.92E-02
fluaizifop	aryloxyphenoxypionic acid	herbicide	3.18	8.00E-04
flucythrinate	pyrethrin	insecticide	4.7	1.20E-03
fluometuron	urea	herbicide	2.38	1.25E-01
fluquinconazole	triazole	fungicide	3.24	6.40E-06
flusilazole	triazole	fungicide	3.74	3.90E-02
flutriafol	triazole	fungicide	2.3	7.10E-06
foramsulfuron	sulfonylurea	herbicide	4.01	4.20E-08
fosthiazate	organophosphate	insecticide	1.68	5.60E-01
furathiocarb	carbamate	insecticide	4.6	3.90E-03
haloxyfopetotyl	aryloxyphenoxypionic ester	herbicide	4.33	1.64E-05
haloxyfop methyl	aryloxyphenoxypionic ester	herbicide	4	3.28E-01
alpha- HCH	organochlorine	insecticide	3.99	-
beta- HCH	organochlorine	insecticide	3.99	-
gamma- HCH	organochlorine	insecticide	3.5	4.40E+00
heptachlor	organochlorine	insecticide	4.95	5.30E+01
heptachlor-endo-epoxide	organochlorine	<i>degradation product</i>	4.24	-
heptachlor-exo-epoxide	organochlorine	<i>degradation product</i>	4.24	-
hexaconazole	triazole	fungicide	3.9	1.80E-02
hexythiazox	other	acaricide	2.53	3.40E-03
imazalil	imidazole	fungicide	3.82	1.58E-01
imidacloprid	neonicotinoid	insecticide	0.57	4.70E-07
indoxacarb	oxadiazine	insecticide	4.65	2.50E-05
iprodione	dicarboximide	fungicide	3	5.00E-04
iprovalicarb	carbamate	fungicide	3.2	4.40E-05
isophenphos methyl	organophosphate	insecticide	4	-
isoproturon	urea	herbicide	2.5	3.15E-03
kresoxim methyl	oximinoacetate	fungicide	3.4	2.30E-03
lambda cyhalothrin	pyrethrin	insecticide	7	2.00E-04
malaaxon	organophosphate	<i>degradation product</i>	2.07	
malathion	organophosphate	insecticide	2.75	5.30E+00
mecarbam	organophosphate	insecticide	2.31	neglible
mepanipyrim	anilinopyrimidine	fungicide	3.28	2.32E-02
metalaxyl M	acylalanine	fungicide	1.71	3.30E+00
metamitron	triazinone	herbicide	0.83	8.60E-04
metconazole	triazole	fungicide	3.85	2.10E-05
methacrifos	organophosphate	insecticide	3	-
methidathion	organophosphate	insecticide	2.2	2.50E-01
methiocarb	carbamate	insecticide	3.08	1.50E-02
methomyl	carbamate	insecticide	0.093	7.20E-01
methoxyfenozone	diacylhydrazine	insecticide	3.7	1.48E-03
metoxuron	urea	herbicide	1.6	4.30E+00

metribuzin	triazinone	herbicide	1.6	5.80E-02
metsulfuron methyl	sulfonylurea	herbicide	0.018	3.30E-07
monocrotophos	organophosphate	insecticide	-0.22	2.90E-01
monolinuron	urea	herbicide	2.2	1.30E+00
myclobutanil	triazole	fungicide	2.94	2.13E-01
napropamaide	alkanamide	herbicide	3.3	5.30E-01
nicosulfuron	sulfonylurea	herbicide	-0.36	8.00E-07
omethoate	organophosphate	insecticide	-0.74	3.30E+00
oxadiazon	oxadiazole	herbicide	4.91	1.00E-01
oxadixyl	oxazolidinone	fungicide	0.65	3.30E-03
oxyfluorfen	diphenyl ether	herbicide	4.47	2.67E-02
paclobutazol	triazole	plant growth regulator	3.11	1.00E-03
parathion	organophosphate	insecticide	3.83	8.90E-01
parathion methyl	organophosphate	insecticide	3	2.00E-01
penconazole	triazole	fungicide	3.72	1.70E-01
pencycuron	phenylurea	fungicide	4.68	5.00E-07
pendimethalin	dinitroaniline	herbicide	5.2	1.94E+00
pentachloroaniline	organochlorine	<i>degradation product</i>	4.86	
permethrin	pyrethrin	insecticide	6.1	2.00E-03
phenthoate	organophosphate	insecticide	3.69	5.30E+00
phosalone	organophosphate	insecticide	4.01	6.00E-02
phosmet	organophosphate	insecticide	2.95	6.50E-02
phoxim	organophosphate	insecticide	4.104	1.80E-01
pirimicarb	carbamate	insecticide	1.7	4.00E-01
pirimicarb desmethyl	carbamate	<i>degradation product</i>	0.42	-
pirimiphos methyl	organophosphate	insecticide	4.2	2.00E+00
primisulfuron methyl	sulfonylurea	herbicide	0.2	5.00E-03
prochloraz	imidazole	fungicide	4.12	1.50E-01
profenofos	organophosphate	insecticide	4.44	1.24E-01
prometryn	triazine	herbicide	4.1	1.65E-01
propachlor	chloroacetamide	herbicide	1.85	1.00E+01
propamocarb	carbamate	fungicide	0.84	3.85E-02
propargite	other	acaricide	5.7	4.00E-02
propiconazole	triazole	fungicide	3.72	2.70E-02
propyzamide	benzamide	herbicide	3.1	5.80E-02
prothiofos	organophosphate	insecticide	5.67	3.00E-01
pyraclostrobin	methoxycarbamate	fungicide	3.99	2.60E-05
pyrazophos	phosphorothiolate	fungicide	3.8	2.20E-01
pyridaben	other	insecticide	6.37	1.00E-02
pyrifenoxy	pyridine	fungicide	3.4	1.70E+00
pyrimethanil	anilinopyrimidine	fungicide	2.84	2.20E+00
pyriproxyfen	other	insecticide	5.37	1.30E-02
quinoxifen	quinoline	fungicide	4.66	1.20E-02
quizalofop	aryloxyphenoxypropionate acid	herbicide	4.28	-
quizalofop-P-ethyl	aryloxyphenoxypropionic ester	herbicide	4.61	8.65E-04
resmethrin	pyrethrin	insecticide	5.43	-

rimisulfuron	sulfonylurea	herbicide	0.288	1.50E-03
simazine	triazine	herbicide	2.1	2.94E-03
s-metolachlor	chloroacetamide	herbicide	3.05	3.70E+00
sulcotrione	triketone	herbicide	-1.7	5.00E-03
tau-fluvalinate	pyrethrin	insecticide	4.26	9.00E-08
tebuconazole	other	fungicide		-
tebufenozide	diacylhydrazine	insecticide	4.25	1.56E-04
tebufenpyrad	other	acaricide	5.04	1.00E-02
tecnazene	aromatic hydrocarbon	fungicide	4	2.40E+02
tefluthrin	pyrethrin	insecticide	6.4	8.40E+00
terbuthylazine	triazine	herbicide	3.21	1.50E-01
tetraconazole	triazole	fungicide	3.56	1.80E-01
tetradifon	other	acaricide	4.61	9.40E-07
thiabentazole	benzimidazole	fungicide	2.39	4.60E-04
thiacloprid	neonicotinoid	insecticide	1.26	3.00E-07
thiamethoxam	neonicotinoid	insecticide	-0.13	6.60E-06
thifensulfuron methyl	sulfonylurea	herbicide	1.06	1.70E-05
thiodicarb	oxime carbamate	insecticide	1.62	5.70E+00
tolclofos methyl	aromatic hydrocarbon	fungicide	4.56	5.70E+01
tolyfluanid	sulfamide	fungicide	3.9	2.00E-01
triadimefon	triazole	fungicide	3.11	2.00E-02
triadimenol	triazole	fungicide	3.08	6.00E-04
triazophos	organophosphate	insecticide	3.34	3.90E-01
trifloxystrobin	oximinoacetate	fungicide	4.5	3.40E-03
trifluralin	dinitroaniline	herbicide	4.83	6.10E+00
triticonazole	triazole	fungicide	3.29	1.00E-05
vinclozolin	dicarboximide	fungicide	3	1.30E-01
zoxamide	benzamide	fungicide	3.76	1.00E-02

Table 2S: Recovery results and relative standard deviation values (RSD) for LC amenable pesticides at three different fortification levels

Analyte	C=0.01 µg L ⁻¹		C= 0.1 µg L ⁻¹		C= 1 µg L ⁻¹		LOQ (µg L ⁻¹)
	Recovery (%)	RSD (%)	Recovery (%)	RSD (%)	Recovery (%)	RSD (%)	
acetamiprid	111	12	106	4.9	119	6.8	0.01
acetochlor*	-	-	74.4	16.8	78	11.9	0.1
aclonifen	120	15.3	135	15.1	125	10.3	0.01
alachlor	92.6	10.7	98.7	4.4	124	5.2	0.01
aldicarb sulfone*	-	-	127	14.1	108	8.1	0.1
ametryn	119	11.8	103	6.5	116	9	0.01
atrazine	164	14	106	8	99.9	7.3	0.01
azimsulfuron	77.4	26.7	115	4.7	115.9	9.8	0.01
azinthos ethyl	93.9	22.7	10.5	10.7	115	9.8	0.01
azinthos methyl	102	27.6	105	17.3	114	8.7	0.01
azoxystrobin	96.3	5.9	98.7	2.8	117	6.2	0.01
benalaxyl	98	12.2	103	3.1	112	7	0.01
bensulfuron methyl	119	13.2	99.2	7.6	141	10.7	0.01
benzoxymate	82.3	16.5	119	9	111	9.7	0.01
bitertanol	110.4	13	111	8.6	107	8.4	0.01
bromophos ethyl	94	16.5	78.5	12.5	64.2	20.1	0.01
bromuconazole	118	22.7	99.8	10.8	96.1	9.4	0.01
bupirimate	131	10.2	106	5.9	109.7	7.5	0.01
buprofezin	104	16.6	105	9.5	110	12.9	0.01
caduzafos	82.1	10.1	80	26.7	91.4	6.8	0.01
carbofuran	140	8.3	128.2	8.1	114	4.9	0.01
chlorfenvinfos	91.6	6.2	107	6.9	111	6.2	0.01
chlorobromuron	99	13.8	123	15.4	109	7.7	0.01
chlorpyrifos ethyl	94.5	10.6	85.6	10.4	76.4	11.9	0.01
chlorsulfuron	89.8	11.4	99	10.3	103	9.2	0.01
chlortoluron	124	14.3	127	14.8	123	9.2	0.01
clofentezine	75.3	13.4	91.3	7.5	72	5.9	0.01
clothianidin	106	10.6	109.3	11	116	7.1	0.01
cyproconazole	94.9	19.9	118	9.4	118	5.6	0.01
cyprodinil	112	6.5	110	6.3	110	6.7	0.01
desethylterbuthylazine	75.3	14.3	91.9	12.5	91.7	2.45	0.01
desmetryn	105	14.5	88.1	6.2	114	6.9	0.01
diazinon	94.6	8.5	80.7	17.4	102	5.5	0.01
difenoconazole	110	14.4	99.1	4.7	99.1	8.1	0.01
dimethenamide-P	78.4	12.2	80.5	15	70	17.3	0.01
dimethoate	68.2	8.3	92.6	4.5	118.5	6.4	0.01

dimethomorph	105	12.7	104	4.4	116	7.2	0.01
diniconazole	101	12.1	113	6.8	108	7	0.01
disulfoton sulfone	163	8.6	129	12.7	121	6.7	0.01
epoxiconazole	84.6	14	97.4	7.1	108.3	4.5	0.01
ethion	77.4	19.2	81.9	3.5	72.8	14.8	0.01
ethofumesate	125	11.6	109	8.1	124	7	0.01
ethoprophos	83.4	9.4	79.2	32	98.7	8.5	0.01
etoxazole	72.4	18.7	66.9	9.9	68.8	17	0.01
fenamidone*	-	-	104	16.4	115	6.3	0.1
fenamiphos*	-	-	114	5.8	97.3	13.1	0.1
fenamiphos sulfone*	-	-	126	15	119	6.4	0.1
fenarimol	116	19.6	73.8	10.8	121	7.8	0.01
fenazaquin	66.7	17.3	112	12.3	64.1	18.8	0.01
fenbuconazole*	-	-	95.7	18	113	5.8	0.1
fenhexamide*	-	-	131	20.2	116	4	0.1
fenitrothion*	-	-	70.1	23.9	77.4	11	0.1
fenoxycarb*	-	-	79	10.1	116	4.4	0.1
fenpropymorph*	-	-	68.6	21.6	102	6.5	0.1
fenpyroximate	61.8	13.4	76.9	10.8	60.8	17.8	0.01
fensulfothion	94.4	24.2	143	8.5	120	11.6	0.01
fensulfothionoxon	106	23.9	114	5.7	115	6.3	0.01
fensulfothionoxon sulfone	94.8	22.3	144	9.3	121	12	0.01
fensulfothion sulfone*	-	-	113	18.3	107	13	0.1
fenthion*	-	-	81.2	23.5	102	8.6	0.1
fenthion sulfone	127	13.6	100	15.1	119	7.2	0.01
fluazifop	51.9	15.9	51.8	19.3	52.1	9.46	0.01
flucythrinate	88.3	10.5	118	17.2	119	9	0.01
fluquinconazole*	-	-	137	22.6	120	8.6	0.1
flusilazole	133	11.1	118	5.4	109	6	0.01
foramsulfuron	69.1	19.7	72	18.4	81.7	3.28	0.01
fosthiazate	99.9	8.4	109	5.2	120	6.4	0.01
furathiocarb			109	14.2	87.7	12.8	0.01
haloxyfop ethyl ester	99.2	15	73.1	14.2	87.1	14	0.01
haloxyfopmethoxyethyl ester	96.6	21.4	91.7	5.9	99.3	7.5	0.01
hexaconazole	116	16	102	7.5	105	7	0.01
hexythiazox	101	11.8	94.1	5.7	91.1	11	0.01
imazalil	98.9	7.1	86	9.1	106	7.2	0.01
imidacloprid	119	20.2	110	14.7	113	10.7	0.01
iprovalicarb	110	13.8	108	5.1	115	6	0.01
isophenphos methyl	80.7	9.1	74.8	14.3	102	6.5	0.01
isoproturon*	-	-	107	12.1	119	5.8	0.1

kresoxim methyl	110	19.3	94.5	13.8	115	7.6	0.01
linuron	127	12.8	131	17.4	125	18.5	0.01
malaoxon	110	11.1	99.4	5.9	117	5.2	0.01
malathion*	-	-	118	10.3	130	10.2	0.1
mecarbam	92.9	21.7	91.7	10.6	119	7.6	0.01
mepanipyrim	106	15.7	110	6.5	103	5.6	0.01
metalaxyl M	112	5.7	112	7.4	122	7.1	0.01
metamitron	72.5	19.3	90	10.9	108	7.6	0.01
metconazole	96.8	24.5	103	10.1	114	6.9	0.01
methidathion*	-	-	85.9	21.2	99.8	7.9	0.1
methiocarb*	-	-	132	22.1	135	7.8	0.01
methomyl	83.5	17	59.9	10.8	107	7.4	0.01
methoxychlor*	-	-	87.8	9	92.4	13.7	0.1
methoxyfenozide	106	8.1	110.8	2.1	121.8	6.3	0.01
metoxuron	110	19.2	116	5.7	120	5.7	0.01
metribuzin*	-	-	83.1	23	107	12.8	0.1
metsulfuron methyl	118	10.9	127	5.1	135	6.2	0.01
monocrotophos*	-	-	132	4.3	121	9	0.1
monolinuron	115	25.1	93	16.2	117	5.6	0.01
myclobutanil*	-	-	130	19.1	94.5	12.1	0.1
napropamide	76.8	14.1	83.9	15	88.8	6.42	0.01
nicosulfuron	93.7	11.4	94.3	6.9	114	5.1	0.01
oxadiazon	110	12.6	85.9	1.7	97.6	9.1	0.01
oxadixyl	144	22.8	136	14.1	116	11.8	0.01
paclobutazole	89.9	11.3	105	9	117	5.2	0.01
penconazole	84.1	12.8	111	7.3	106	5.8	0.01
pencycuron*	-	-	124	4.6	115	6.8	0.1
pendimethalin	94.9	6.7	85.3	6.3	74.5	16	0.01
phosalone	109	23.2	115	14.2	104	8.3	0.01
phosmet	66	19	119	21.7	125	5.4	0.01
phoxim*	-	-	101	23.2	109	8.5	0.1
pirimicarb	104	8.7	125	6	122	5	0.01
pirimicarb desmethyl	120	6.8	130	7.9	120	6.2	0.01
pirimiphos methyl	115	5.6	99.4	10.6	100	11.7	0.01
primisulfuron methyl	71.4	23.7	118	19.8	119	8.9	0.01
procloraz*	-	-	109	10.7	106	6.4	0.1
profenofos	132	12.2	103	13.4	83.3	16.5	0.01
prometryn	101	5.9	93.1	3.2	114	7.3	0.01
propamocarb*	-	-	73.1	22.4	98.8	7.2	0.1
propargite	92.4	12.6	79.4	8.9	70.7	18.9	0.01
propyconazole	115	13.9	97	5.6	103	7.1	0.01
pyraclostrobin	102	5.5	100	10.9	96.5	10.1	0.01

pyrazophos	87.2	13.6	101	14.6	101	11.4	0.01
pyrifenox	104	11.9	100	8.7	111	6.1	0.01
pyrimethanil	105	16.1	115	10.1	115	6.1	0.01
pyriproxyfen	80.6	9	76.2	9	71.6	14.9	0.01
quiazalofop	88.5	26.6	93.7	20.3	101	11.6	0.01
quinoxifen	110	11.9	81.9	12.8	77.7	14.9	0.01
rimsulfuron	62.3	15.3	71.1	19.9	89	10.4	0.01
s-metolachlor	71.5	21.3	86.8	12.1	95.7	6.24	0.01
simazine	94.9	20.5	110	12.3	120	8.2	0.01
tebuconazole	84.3	11.8	99	8.1	123	9.9	0.01
tebufenozide	112	8	96	10.9	115	7.6	0.01
tebufenpyrad*	-	-	112	11.8	82.4	13.4	0.1
terbuthylazine	98.9	6.5	98.4	1.8	120	7.5	0.01
tetraconazole	100	6.6	100	9.2	109	7.2	0.01
thiabentazole	60.5	12.2	56	9.9	116	7.2	0.01
thiacloprid	112	6.6	92.6	6	112	11.9	0.01
thiamethoxam	104	15.1	110	3.4	124	3.5	0.01
thifensulfuron methyl	111	4.4	88.4	6.2	118	10.8	0.01
thiodicarb	113	19.6	113	4.3	124	5.1	0.01
toclofos methyl	99.2	12	99.6	22.4	94	8.2	0.01
tolyfluanid	66.4	14.1	54.8	29.9	123	5.8	0.01
triadimenol	87.9	31.2	109	16.2	127	6.3	0.01
triazophos	110	6.1	96.3	5.7	114	6.9	0.01
trifloxystrobin	102	9.8	80.5	4	94.6	11.5	0.01
triticonazole	112	16	99.6	6.1	133	6.3	0.01
zoxamide	112	2.8	98.5	4.4	112	4.8	0.01

**For these analytes signal to noise ratio for quantification ion transition at the lowest fortification level was <10.*

Table 3S: Recovery results with relative standard deviation values (RSD) for two different fortification levels and limit of quantitation (LOQ) for GC amenable pesticides.

Analyte	C=0.01 µgL ⁻¹		C=0.1µgL ⁻¹		LOQ (µgL ⁻¹)
	Recovery (%)	RSD (%)	Recovery (%)	RSD (%)	
acrinathrin	34.8	25.1	31.5	12.1	0.01
benalaxyl	87.2	21	85.6	9	0.01
bifenthrin	58.7	25.2	67	11.6	0.01
bitertanol	93.9	14.1	114.6	15.3	0.01
bromophos ethyl	78.9	31.3	89.9	18.7	0.01
bromopropylate	105.5	19.8	105	23.5	0.01
chlorpyrifos methyl	99.7	10.8	84.8	6.7	0.01
chlordane alpha	65.2	9.5	63.5	12.7	0.01
chlordane gamma	100.7	20.7	95.5	19.5	0.01
chlorfenapyr	71.2	14.9	133	8	0.01
chlorobenzilate	113	20.7	80.1	6	0.01
chlorothalonil	124	22.3	88.8	14	0.01
chlorpropham	134.4	26.3	92.4	5.1	0.01
chlorpyrifos	102	10.8	111	11.2	0.01
cyfluthrin	45	6	64.6	7.5	0.01
cypermethrin	94.5	14.8	68.4	7.2	0.01
<i>o, p'</i> - DDD	81	21.2	94.9	14.8	0.01
<i>p, p'</i> - DDD	81.1	31.8	90.2	16	0.01
<i>o, p'</i> - DDE	74.2	20.6	65.4	15.5	0.01
<i>p, p'</i> - DDE	75.1	23.1	80.4	13.9	0.01
<i>o, p'</i> - DDT	77.3	32.3	89.2	16.3	0.01
<i>p, p'</i> - DDT	90.8	14.5	105	11.5	0.01
deltamethrin	56.3	7.7	62.9	16.7	0.01
desmetryn	96.5	10.4	88.4	8.4	0.01
diazinon	107	18.5	93.4	10.2	0.01
dicloran	82.2	26.9	78.6	4.8	0.01
<i>p, p'</i> - dicofol	91.1	24.6	111	7.8	0.01
dieldrin	101	16	86.2	12.8	0.01
dinitramine	78.1	17.4	89.6	18.7	0.01
alpha - endosulfan	73.7	7.6	78.3	14	0.01
beta - endosulfan	121	21.6	74.5	14.3	0.01
endosulfan sulfate	82.1	7.6	87.8	6.6	0.01
esfenvalerate	46.7	16.2	54.7	22.1	0.01
ethalfluralin	62.2	18.5	80.7	14	0.01
ethion	68.5	20.7	113	16.9	0.01
fenamiphos	61.3	23.6	90.1	13.4	0.01
fenpropathrin	56	12.5	76	18.8	0.01
fenvalerate	46.2	12.6	66.6	14.8	0.01
flucythrinate	57.6	7.12	66.3	10.5	0.01
alpha - HCH	88.5	15.9	103	13.1	0.01

beta - HCH	79.3	11.6	89.2	4.7	0.01
gamma - HCH	111	18.01	99.6	6.1	0.01
heptachlor-endo-epoxide	108	18.5	92.3	10.6	0.01
heptachlor-exo-epoxide	95.2	21.9	87	7.5	0.01
heptachlor	89.3	20.6	65.6	11.6	0.01
imazalil	114	17.2	78	10.7	0.01
iprodione	95.4	20.8	81.3	19.1	0.01
lambda cyhalothrin	44.5	10	48.6	9.4	0.01
pentachloroaniline	98.6	22.1	107	9.1	0.01
permethrin	66.02	18.8	64.7	21.4	0.01
phenthoate	122	14.5	98.6	4.2	0.01
pirimiphos methyl	107	9.2	97.6	6.8	0.01
profenofos	90.1	14.6	118	17.1	0.01
prometryn	103	18.1	97.7	5.6	0.01
propachlor*	-	-	92.4	14.4	0.1
propyzamide	110	13.8	104	5	0.01
prothiofos	91.3	32.7	87.2	19.1	0.01
resmethrin*	-	-	90.8	18.8	0.1
tau-fluvalinate*	-	-	62.3	23.5	0.1
tecnazene	79.5	19.6	68.2	10.5	0.01
tefluthrin	81.2	19.2	63.7	13.4	0.01
tetradifon	93.1	33.2	114	18.3	0.01
tolclofos methyl	94.3	21.2	85.3	5.4	0.01
trifluralin	76.3	20.1	86.5	16.1	0.01
vinclozolin	128	17.9	89.6	7.3	0.01

**For these analytes signal to noise ratio for quantification ion transition at lowest fortification level was <10.*