

**Determinand:**

Determination of organochlorine pesticides, synthetic pyrethroids, and selected non-polar organic compounds.

<u>Compound</u>	<u>CAS No.</u>
Aldrin	309-00-2
Chlorbufam	1967-15-4
Chlorothalonil	1897-45-6
Chlorpropham	101-21-3
Chlorpyrifos-ethyl	2921-88-2
Chlorpyrifos-methyl	5598-13-0
Chlorthal-dimethyl	1861-32-1
Clomazone	81777-89-1
Cyfluthrin	68359-37-5
Cypermethrin	52315-07-8
Deltamethrin	52918-63-5
Diazinon	333-41-5
Dichlobenil	1194-65-6
Dieldrin	60-57-1
Diflufenican	83164-33-4
Endrin	72-20-8
Ethofumesate	26225-79-6
Ethoprophos	13194-48-4
Fenpropimorph	67564-91-4
Fenvalerate	51630-58-1
alpha-HCH	319-84-6
gamma-HCH	58-89-9
Heptachlor	76-44-8
cis-Heptachlor Epoxide	1024-57-3
trans-Heptachlor Epoxide	28044-83-9
Hexachlorobenzene	118-74-1
Kresoxim-methyl	143390-89-0
Lambda-Cyhalothrin	91465-08-6
Methoxychlor	72-43-5
o,p'-DDE	3424-82-6
o,p'-DDT	789-02-6
o,p'-TDE	53-19-0
Parathion-ethyl	56-38-2
Pendimethalin	40487-42-1
Pentachlorobenzene	608-93-5
cis-Permethrin	54774-45-7
trans-Permethrin	51877-74-8
Picolinafen	137641-05-5
Pirimicarb	23103-98-2
Pirimiphos-methyl	29232-93-7
Propham	122-42-9
Propyzamide	23950-58-5
p,p'-DDE	72-55-9
p,p'-DDT	50-29-3
p,p'-TDE	72-54-8
Tecnazene	117-18-0

METHOD STATEMENT



Triallate 2303-17-5
Trifluralin 1582-09-8

Matrix:

Sample Type: Waters abstracted for Potable supply.

Principle of Method:

Approximately 200mL of sample is extracted with 5.0+0.2 mL of hexane/ethyl acetate (in a 1:1 ratio mix). The extract is then analysed by gas chromatography using triple quad mass spectrometric detection in MRM mode.

Sampling and Sample Preparation:

Samples are taken in 500mL amber or green glass bottles containing 0.9mL of sodium thiosulfate, 10g L⁻¹, as preservative and are stored at 1-5°C on receipt at the laboratory. Samples should be extracted (or solvent added) within the number of days from sampling as stated in the stability data given below:

Compound	Stability - Days
Aldrin	20
Chlorbufam	21
Chlorothalonil	20
Chlorpropham	21
Chlorpyrifos-ethyl	28
Chlorpyrifos-methyl	28
Chlorthal-dimethyl	21
Clomazone	21
Cyfluthrin	20
Cypermethrin	20
Deltamethrin	20
Diazinon	21
Dichlobenil	20
Dieldrin	20
Diflufenican	21
Endrin	20
Ethofumesate	28
Ethoprophos	21
Fenpropimorph	21
Fenvalerate	20
alpha-HCH	20
beta-HCH	20
gamma-HCH	20
Heptachlor	7
cis-Heptachlor Epoxide	20
trans-Heptachlor Epoxide	20
Hexachlorobenzene	20
Kresoxim-methyl	21
lambda-Cyhalothrin	14
Methoxychlor	20

METHOD STATEMENT



Compound	Stability - Days
o,p'-DDE	20
o,p'-DDT	20
o,p'-TDE	20
Parathion-ethyl	21
Pendimethalin	28
Pentachlorobenzene	21
cis-Permethrin	20
trans-Permethrin	20
Picolinafen	28
Pirimicarb	28
Pirimiphos-methyl	21
Propham	21
Propyzamide	21
p,p'-DDE	20
p,p'-DDT	20
p,p'-TDE	20
Tecnazene	20
Triallate	21
Trifluralin	20

If sample extracts cannot be analysed immediately after preparation they are stored in a fridge at $5\pm 3^{\circ}\text{C}$ until analysis can be completed. If the samples show any signs of degradation from the AQC results or blank contamination then the samples would be re-analysed or re-prepped where feasible.

Selected distribution/final treated water samples should be tested, at random, for levels of residual chlorine in order to confirm that bottles are continuing to be received with ascorbic acid having been present prior to sampling, according to WOP56.

Interferences

Any compound, which passes through the extraction procedure and that co-elutes with any of the analytes and produces a significant response to the relevant ions being monitored.

Performance of Method:

Range of Application:

The operational range is from the limit of detection, to 150 ng L^{-1} . Samples producing results above this range should be diluted to bring the sample response below that of the top standard.

Limit of Quantification:

Limits of Quantification (LOQ) are given in $\mu\text{g L}^{-1}$, the highest LOQ has been applied across all instruments.

Determinand	AG2 Limit of Quantification ($\mu\text{g L}^{-1}$)	AG3 Limit of Quantification ($\mu\text{g L}^{-1}$)	AG5 Limit of Quantification ($\mu\text{g L}^{-1}$)	METHOD (Standardised) Limit of Quantification ($\mu\text{g L}^{-1}$)
Aldrin	0.007	0.005	0.008	0.008
Chlorbufam	0.004	0.005	0.007	0.007
Chlorothalonil	0.006	0.003	0.005	0.006

METHOD STATEMENT



Determinand	AG2 Limit of Quantification ($\mu\text{g L}^{-1}$)	AG3 Limit of Quantification ($\mu\text{g L}^{-1}$)	AG5 Limit of Quantification ($\mu\text{g L}^{-1}$)	METHOD (Standardised) Limit of Quantification ($\mu\text{g L}^{-1}$)
Chlorpropham	0.005	0.004	0.003	0.005
Chlorpyrifos-ethyl	0.007	0.008	0.007	0.008
Chlorpyrifos-methyl	0.006	0.004	0.008	0.008
Chlorthal-dimethyl	0.007	0.008	0.008	0.008
Clomazone	0.007	0.005	0.006	0.007
Cyfluthrin	0.005	0.007	0.008	0.008
Cypermethrin	0.005	0.004	0.008	0.008
op-DDE	0.003	0.005	0.005	0.005
pp-DDE	0.003	0.005	0.004	0.005
op-DDT	0.004	0.004	0.004	0.004
pp-DDT	0.004	0.004	0.004	0.004
Deltamethrin	0.005	0.009	0.006	0.009
Diazinon	0.007	0.003	0.005	0.007
Dichlobenil	0.003	0.004	0.004	0.004
Dieldrin	0.008	0.008	0.009	0.009
Diflufenican	0.009	0.009	0.006	0.009
Endrin	0.009	0.006	0.012	0.012
Ethofumesate	0.007	0.008	0.007	0.008
Ethoprophos	0.008	0.006	0.006	0.008
Fenpropimorph	0.010	0.008	0.007	0.010
Fenvalerate	0.005	0.007	0.006	0.007
alpha-HCH	0.005	0.004	0.006	0.006
gamma-HCH	0.005	0.004	0.003	0.005
Heptachlor	0.005	0.004	0.003	0.005
cis-Heptachlor Epoxide	0.007	0.006	0.005	0.007
trans-Heptachlor Epoxide	0.007	0.005	0.007	0.007
Hexachlorobenzene	0.005	0.005	0.005	0.005
Kresoxim-methyl	0.004	0.004	0.007	0.007
Lambda-Cyhalothrin	0.006	0.005	0.006	0.006
Methoxychlor	0.006	0.004	0.004	0.006
Parathion	0.006	0.010	0.012	0.012
Pendimethalin	0.009	0.009	0.009	0.009
Pentachlorobenzene	0.006	0.003	0.004	0.006
cis-Permethrin	0.004	0.005	0.006	0.006
trans-Permethrin	0.004	0.005	0.004	0.005
Picolinafen	0.009	0.007	0.006	0.009
Pirimicarb	0.014	0.010	0.016	0.016
Pirimiphos-methyl	0.008	0.005	0.005	0.008
Propham	0.004	0.004	0.005	0.005
Propyzamide	0.009	0.008	0.007	0.009
op-TDE	0.004	0.004	0.005	0.005
pp-TDE	0.003	0.003	0.005	0.005
Tecnazene	0.008	0.005	0.004	0.008
Triallate	0.006	0.004	0.006	0.006
Trifluralin	0.007	0.005	0.004	0.007

METHOD STATEMENT



Recoveries of Compounds and Uncertainty of measurement:

Instrument, WAKGCQQQ02, AG2:

Determinand	Low Standard 30ng/L Spike		High Standard 100ng/L Spike		Elvington Treated Water (Hard Water) PCV Spike		Uncertainty
	% Recovery	% RSD	% Recovery	% RSD	% Recovery	% RSD	
Aldrin	98.78%	4.78%	101.20%	7.37%	99.39%	3.35%	± 9.86 %
Chlorbufam	97.72%	6.79%	98.28%	4.17%	95.69%	4.13%	± 11.67 %
Chlorothalonil	92.46%	6.06%	99.44%	6.72%	106.90%	7.20%	± 19.08 %
Chlorpropham	97.72%	5.75%	100.69%	3.14%	99.65%	3.51%	± 7.71 %
Chlorpyrifos-ethyl	99.39%	6.79%	100.24%	5.35%	97.73%	3.17%	± 12.62 %
Chlorpyrifos-methyl	97.81%	5.30%	100.19%	3.03%	100.38%	3.82%	± 9.98 %
Chlorthal-dimethyl	97.67%	2.82%	100.36%	8.24%	98.91%	2.61%	± 9.20 %
Clomazone	96.00%	7.55%	98.47%	2.82%	95.48%	2.64%	± 12.40 %
Cyfluthrin	98.90%	6.34%	101.44%	6.65%	100.17%	4.89%	± 10.73 %
Cypermethrin	96.18%	3.67%	100.64%	6.56%	97.55%	2.94%	± 13.29 %
Deltamethrin	97.12%	4.60%	101.00%	5.21%	98.83%	5.09%	± 10.07 %
Diazinon	97.34%	4.61%	101.18%	7.69%	99.83%	2.86%	± 8.90 %
Dichlobenil	106.86%	7.13%	102.64%	6.40%	99.61%	5.95%	± 11.41 %
Dieldrin	95.65%	3.69%	100.30%	10.61%	95.66%	4.95%	± 11.29 %
Diflufenican	96.16%	4.04%	99.82%	6.96%	98.23%	3.00%	± 10.84 %
Endrin	100.95%	4.79%	100.70%	6.81%	99.07%	3.01%	± 8.87 %
Ethofumesate	98.30%	7.74%	99.76%	6.26%	99.78%	6.26%	± 15.67 %
Ethoprophos	98.02%	6.79%	95.40%	5.05%	91.64%	4.09%	± 17.72 %
Fenpropimorph	99.24%	6.52%	101.01%	5.11%	98.58%	4.62%	± 19.90 %
Fenvalerate	99.37%	8.32%	100.57%	5.72%	97.89%	5.39%	± 10.84 %
HCH-alpha	105.25%	2.68%	102.68%	4.78%	100.72%	2.06%	± 8.28 %
HCH-gamma	101.02%	2.75%	101.87%	4.56%	99.98%	2.05%	± 7.26 %
Heptachlor	93.87%	7.23%	99.75%	6.05%	100.98%	4.75%	± 9.68 %
cis-Heptachlor Epoxide	96.76%	4.34%	99.60%	9.06%	98.59%	3.83%	± 9.44 %
trans-Heptachlor Epoxide	99.69%	3.46%	100.35%	7.44%	99.27%	3.16%	± 12.41 %
Hexachlorobenzene	105.42%	3.44%	103.20%	5.23%	100.98%	3.00%	± 8.54 %
Kresoxim-methyl	95.85%	5.80%	100.38%	5.15%	100.04%	4.03%	± 11.06 %
lambda-Cyhalothrin	99.19%	9.91%	102.63%	11.81%	102.04%	9.67%	± 13.73 %
Methoxychlor	98.83%	12.73%	101.10%	8.06%	93.51%	4.71%	± 22.74 %
op-DDE	99.92%	2.34%	101.37%	5.33%	99.71%	1.18%	± 6.25 %
op-DDT	96.06%	1.66%	99.94%	5.99%	98.76%	1.92%	± 9.00 %
op-TDE	99.19%	3.74%	100.56%	7.40%	95.12%	2.77%	± 13.17 %
Parathion-ethyl	98.34%	7.45%	99.59%	6.51%	98.17%	3.63%	± 10.99 %
Pendimethalin	100.16%	11.89%	98.88%	5.06%	100.38%	6.33%	± 16.08 %
Pentachlorobenzene	104.83%	5.88%	102.72%	5.71%	100.47%	4.60%	± 9.78 %
cis-Permethrin	96.89%	4.87%	100.74%	6.79%	99.14%	3.30%	± 9.73 %
trans-Permethrin	96.68%	4.74%	100.72%	6.39%	98.40%	3.32%	± 9.73 %
Picolinafen	97.88%	6.14%	99.46%	3.13%	99.29%	4.50%	± 10.54 %
Pirimicarb	99.83%	9.16%	100.04%	6.09%	100.21%	9.52%	± 21.71 %
Pirimiphos-methyl	94.46%	6.09%	97.66%	4.29%	96.15%	4.17%	± 12.89 %

METHOD STATEMENT



Determinand	Low Standard 30ng/L Spike		High Standard 100ng/L Spike		Elvington Treated Water (Hard Water) PCV Spike		Uncertainty
	% Recovery	% RSD	% Recovery	% RSD	% Recovery	% RSD	
pp-DDE	98.61%	1.60%	100.93%	5.86%	98.73%	4.84%	± 7.22 %
pp-DDT	94.69%	5.89%	99.19%	6.12%	99.71%	2.89%	± 10.26 %
pp-TDE	95.27%	6.22%	100.33%	7.48%	94.27%	4.53%	± 17.92 %
Propham	100.14%	4.26%	100.24%	3.19%	98.99%	2.80%	± 7.89 %
Propyzamide	96.31%	6.84%	96.98%	4.37%	93.90%	4.96%	± 15.46 %
Tecnazene	103.03%	3.62%	100.54%	6.28%	98.25%	6.42%	± 9.57 %
Triallate	95.01%	3.40%	99.53%	8.71%	97.89%	3.49%	± 10.42 %
Trifluralin	95.55%	2.73%	100.38%	6.06%	99.65%	2.34%	± 8.79 %

Instrument, WAKGCQQQ03, AG3:

Determinand	Low Standard 30ng/L Spike		High Standard 100ng/L Spike		Elvington Treated Water (Hard Water) PCV Spike		Uncertainty
	% Recovery	RSD	% Recovery	RSD	% Recovery	RSD	
Aldrin	101.56%	4.57%	101.84%	7.25%	98.01%	4.65%	± 20.90 %
Chlorbufam	96.90%	8.00%	98.67%	3.43%	96.03%	3.40%	± 14.74 %
Chlorothalonil	96.87%	7.89%	98.79%	8.16%	103.92%	10.55%	± 11.18 %
Chlorpropham	96.19%	5.80%	100.18%	3.75%	100.10%	2.27%	± 9.28 %
Chlorpyrifos-ethyl	96.05%	5.99%	97.28%	5.10%	98.74%	5.00%	± 14.91 %
Chlorpyrifos-methyl	98.88%	5.23%	100.45%	4.32%	99.66%	4.24%	± 10.16 %
Chlorthal-dimethyl	101.24%	8.47%	100.10%	8.41%	100.89%	8.07%	± 12.61 %
Clomazone	98.66%	8.12%	99.06%	4.36%	96.61%	4.49%	± 12.85 %
Cyfluthrin	94.94%	5.48%	98.55%	4.31%	97.05%	5.28%	± 18.10 %
Cypermethrin	93.46%	4.11%	98.63%	3.04%	97.77%	2.45%	± 18.33 %
Deltamethrin	89.83%	4.96%	98.73%	3.95%	97.12%	2.42%	± 20.59 %
Diazinon	95.69%	6.41%	98.71%	2.71%	99.86%	3.53%	± 15.21 %
Dichlobenil	103.60%	9.74%	101.27%	6.56%	101.11%	7.40%	± 20.61 %
Dieldrin	98.86%	4.05%	101.99%	2.73%	99.08%	3.73%	± 15.81 %
Diflufenican	95.44%	2.80%	99.15%	1.95%	99.39%	2.52%	± 14.90 %
Endrin	101.31%	3.46%	100.52%	2.72%	99.20%	2.89%	± 12.04 %
Ethofumesate	100.27%	8.97%	99.27%	3.57%	100.31%	6.07%	± 17.94 %
Ethoprophos	93.10%	7.74%	95.36%	5.12%	93.75%	6.55%	± 18.68 %
Fenpropimorph	96.85%	9.31%	100.70%	7.48%	99.93%	5.43%	± 13.44 %
Fenvalerate	101.65%	11.95%	99.75%	5.61%	101.96%	6.62%	± 22.92 %
HCH-alpha	103.97%	8.36%	102.45%	7.83%	102.87%	8.16%	± 17.01 %
HCH-gamma	100.78%	1.52%	100.46%	1.38%	99.97%	1.55%	± 12.31 %
Heptachlor	99.73%	8.49%	99.75%	6.53%	102.95%	9.03%	± 24.06 %
cis-Heptachlor Epoxide	97.29%	6.06%	99.74%	6.14%	97.45%	3.49%	± 15.58 %
trans-Heptachlor Epoxide	95.57%	5.23%	99.51%	4.99%	96.22%	4.62%	± 15.71 %
Hexachlorobenzene	105.49%	6.98%	103.45%	7.59%	102.34%	6.93%	± 14.55 %
Kresoxim-methyl	96.58%	8.16%	100.78%	5.75%	100.14%	9.69%	± 19.20 %
lambda-Cyhalothrin	96.22%	8.42%	99.46%	5.70%	99.40%	11.14%	± 17.70 %

METHOD STATEMENT



Determinand	Low Standard 30ng/L Spike		High Standard 100ng/L Spike		Elvington Treated Water (Hard Water) PCV Spike		Uncertainty
	% Recovery	RSD	% Recovery	RSD	% Recovery	RSD	
Methoxychlor	96.04%	7.02%	98.60%	6.13%	95.96%	5.62%	± 21.05 %
op-DDE	102.72%	2.81%	99.98%	5.53%	99.79%	2.77%	± 13.94 %
op-DDT	98.92%	1.93%	100.47%	1.87%	99.43%	2.04%	± 13.39 %
op-TDE	103.49%	2.10%	101.51%	2.16%	98.69%	2.36%	± 13.51 %
Parathion-ethyl	94.39%	5.21%	99.71%	2.91%	99.71%	3.24%	± 14.84 %
Pendimethalin	96.17%	7.76%	98.53%	5.61%	97.79%	4.62%	± 16.79 %
Pentachlorobenzene	102.58%	8.93%	103.27%	6.87%	102.35%	7.18%	± 20.66 %
cis-Permethrin	94.52%	6.88%	98.86%	4.20%	98.68%	3.64%	± 14.72 %
trans-Permethrin	93.68%	7.66%	99.34%	3.76%	99.84%	3.84%	± 17.87 %
Picolinafen	96.83%	6.25%	99.24%	4.18%	98.92%	6.18%	± 14.92 %
Pirimicarb	103.73%	9.65%	100.68%	9.84%	100.20%	6.73%	± 17.18 %
Pirimiphos-methyl	96.78%	6.57%	99.00%	3.77%	97.49%	3.87%	± 11.61 %
pp-DDE	101.37%	2.20%	100.79%	2.32%	99.83%	2.30%	± 13.05 %
pp-DDT	94.48%	2.59%	99.09%	1.57%	100.79%	2.39%	± 15.44 %
pp-TDE	100.19%	4.24%	101.17%	3.47%	97.75%	3.77%	± 16.52 %
Propham	98.29%	5.48%	100.05%	2.68%	99.05%	3.76%	± 8.84 %
Propyzamide	99.51%	8.35%	97.88%	5.32%	94.69%	6.27%	± 16.86 %
Tecnazene	99.06%	8.11%	101.36%	6.56%	103.08%	7.70%	± 17.39 %
Triallate	97.83%	3.41%	100.46%	4.55%	102.22%	4.99%	± 12.65 %
Trifluralin	93.02%	2.99%	99.21%	2.90%	99.29%	2.41%	± 17.54 %

Instrument, WAKGCQQQ05, AG5:

Determinand	Low Standard 30ng/L Spike		High Standard 100ng/L Spike		Elvington Treated Water (Hard Water) PCV Spike		Uncertainty
	% Recovery	RSD	% Recovery	RSD	% Recovery	RSD	
Aldrin	97.38%	4.92%	101.61%	2.89%	98.80%	4.55%	±15.75%
Chlorbufam	94.43%	6.92%	94.91%	4.25%	95.02%	5.12%	± 15.57%
Chlorothalonil	91.89%	7.86%	99.96%	3.42%	100.99%	2.69%	±17.50%
Chlorpropham	95.99%	5.16%	98.93%	4.41%	100.39%	4.08%	± 12.25%
Chlorpyrifos-ethyl	95.54%	8.74%	98.44%	3.34%	98.28%	3.91%	± 10.68%
Chlorpyrifos-methyl	95.18%	7.17%	99.46%	3.47%	97.71%	3.67%	± 10.32%
Chlorthal-dimethyl	99.16%	4.59%	100.87%	2.74%	101.40%	2.82%	±11.15%
Clomazone	97.63%	6.50%	97.31%	4.13%	98.03%	5.24%	± 12.27%
Cyfluthrin	96.14%	3.86%	100.02%	4.08%	99.50%	4.94%	±12.41%
Cypermethrin	99.21%	8.30%	101.24%	3.46%	100.75%	3.32%	±9.17%
Deltamethrin	95.45%	5.65%	98.04%	3.18%	99.19%	2.68%	±13.23%
Dichlobenil	101.50%	2.60%	101.51%	3.74%	99.44%	4.22%	±10.54%
Diazinon	96.64%	2.98%	99.67%	2.56%	100.90%	3.46%	±8.26%
Dieldrin	100.04%	3.01%	101.19%	2.23%	99.80%	2.88%	±12.11%
Diflufenican	97.30%	2.61%	100.35%	1.62%	100.33%	2.77%	±8.49%
Endrin	102.28%	3.25%	100.81%	2.67%	101.12%	3.48%	±8.07%

METHOD STATEMENT



Determinand	Low Standard 30ng/L Spike		High Standard 100ng/L Spike		Elvington Treated Water (Hard Water) PCV Spike		Uncertainty
	% Recovery	RSD	% Recovery	RSD	% Recovery	RSD	
Ethofumesate	97.45%	6.17%	97.97%	4.30%	100.05%	4.97%	± 15.35%
Ethoprophos	92.63%	7.16%	94.29%	3.85%	92.97%	5.50%	± 19.47%
Fenpropimorph	98.45%	7.78%	101.31%	3.50%	101.17%	4.40%	± 13.11%
Fenvalerate	97.42%	11.43%	101.48%	7.16%	102.88%	4.74%	±14.87%
HCH-alpha	101.14%	3.13%	101.90%	2.21%	101.84%	3.41%	±8.45%
HCH-gamma	100.44%	2.47%	102.12%	1.90%	101.26%	3.04%	±7.93%
Heptachlor	96.82%	3.81%	101.42%	1.83%	99.41%	3.21%	±9.51%
cis-Heptachlor Epoxide	101.31%	3.57%	101.66%	4.02%	101.75%	5.38%	±13.06%
trans-Heptachlor Epoxide	99.05%	4.31%	101.50%	3.53%	99.77%	5.66%	±12.45%
Hexachlorobenzene	101.50%	3.08%	103.64%	2.31%	102.60%	2.87%	±9.22%
Kresoxim-methyl	94.94%	5.87%	98.96%	3.89%	98.02%	4.73%	±15.24%
lambda-Cyhalothrin	100.97%	8.97%	99.87%	4.53%	98.98%	4.82%	±14.79%
Methoxychlor	99.54%	6.59%	101.59%	2.89%	101.55%	2.41%	±8.57%
op-DDE	100.54%	2.76%	101.97%	2.66%	101.71%	3.63%	±8.17%
op-DDT	99.83%	1.89%	100.63%	1.22%	99.71%	2.64%	±7.73%
op-TDE	97.04%	3.00%	100.39%	1.91%	100.36%	3.24%	±9.72%
Parathion-ethyl	95.11%	7.35%	98.04%	3.48%	98.98%	3.41%	±12.02%
Pendimethalin	99.25%	8.35%	99.34%	5.28%	98.04%	6.81%	± 18.95%
Pentachlorobenzene	102.33%	2.72%	103.88%	3.45%	103.24%	3.03%	±10.78%
cis-Permethrin	98.82%	7.24%	102.24%	4.70%	101.36%	4.38%	±12.80%
trans-Permethrin	99.08%	5.01%	101.83%	3.35%	101.10%	3.93%	±12.09%
Picolinafen	97.02%	7.33%	99.95%	3.68%	99.25%	3.85%	± 10.56%
Pirimicarb	103.97%	9.39%	101.03%	5.33%	98.90%	4.81%	± 16.59%
Pirimiphos-methyl	94.38%	8.91%	97.82%	3.81%	98.42%	3.96%	± 12.26%
pp-DDE	98.45%	3.00%	100.42%	2.30%	100.89%	3.02%	±8.44%
pp-DDT	94.34%	2.64%	98.92%	2.00%	99.15%	2.69%	±12.51%
pp-TDE	96.95%	2.15%	100.05%	2.99%	99.00%	2.33%	±11.82%
Propham	98.68%	4.26%	99.68%	3.82%	100.15%	3.48%	± 11.74%
Propyzamide	97.63%	7.77%	97.67%	4.59%	97.77%	5.82%	± 14.33%
Tecnazene	97.81%	2.69%	101.15%	2.60%	100.83%	3.23%	±10.69%
Triallate	97.99%	2.61%	100.66%	2.01%	101.65%	2.73%	±8.41%
Trifluralin	100.89%	6.12%	100.85%	1.92%	101.50%	2.65%	±7.28%

References:

In house method