EURL-PROFICIENCY TEST-FV-14, 2012

Pesticide Residues in Pear Homogenate
Final Report

Organiser:

Dr. Amadeo R. Fernández-Alba
Co-Head of EURL-FV
University of Almería, Edificio Químicas CITE I
Ctra. Sacramento s/n
04120 Almería, SPAIN
Phone: +34 950015034; Fax: +34 950015483
E-mail: amadeo@ual.es
http://www.eurl-pesticides.eu

Organising team at the University of Almería:

Dr. Paula Medina, Chemist.	University of Almería
Mr. Octavio Malato, Chemist.	University of Almería
Ms. Carmen Ferrer, Chemist.	University of Almería
Ms. Noelia Belmonte, Chemist.	University of Almería
Ms. Ana Lozano, Chemist.	University of Almería
Ms. Mª del Mar Gómez, Chemist.	University of Almería
Ms. Samanta Uclés, Chemist.	University of Almería
Ms. Ana Uclés, Chemist.	University of Almería

Scientific Committee:

Mr. Stewart Reynolds, Senior Chemist (QCG).	Food and Environment Research Agency, York, United Kingdom.
Dr. Antonio Valverde, Senior Chemist (QCG).	University of Almería, Spain.
Dr. Carmelo Rodríguez, Senior Chemist (AG).	University of Almería, Spain.
Dr. Miguel Gamón, Senior Chemist (AG).	Co-Head of EURL-FV. Pesticide Residue Laboratory (Agro-Food Analysis Service) of the Generalitat Valenciana, Spain.
Dr. André de Kok, Senior Chemist (AG).	VWA - Food and Consumer Product Safety Authority, Amsterdam, The Netherlands.
Dr. Tuija Pihlström, Senior Chemist (AG).	National Food Administration, Uppsala, Sweden.
Dr. Sonja Masselter, Senior Chemist (AG).	AGES Competence Centre for Residues of Plant Protection Products, Innsbruck, Austria.
Dr. Magnus Jezussek, Senior Chemist (AG).	Bavarian Health and Food Safety Authority, Erlangen, Germany.
Dr. Darinka Stajnbaher, Senior Chemist (AG).	Institute of Public Health, Maribor, Slovenia.
Dr. Michelangelo Anastassiades, Senior Chemist (AG).	CVUA Stuttgart, Fellbach, Germany.
Dr. Mette Erecius Poulsen, Senior Chemist (AG).	National Food Institute, Soeborg, Denmark.
Mr. Ralf Lippold, Senior Chemist (AG).	CVUA Freiburg, Germany.

QCG: Quality Control Group
AG: Advisory Group

CONTENTS

EURL-EUROPEAN UNION PROFICIENCY TEST 14
FOR THE DETERMINATION OF PESTICIDES IN FRUIT AND VEGETABLES USING MULTIRESIDUE METHODS
2012

According to Article 28 of Regulation 396/2005/EC (23rd February, 2005) of the European Parliament and of the Council, concerning maximum residue levels for pesticides in or on food and feed of plant and animal origin[1], all laboratories analysing samples for the official control of pesticide residues shall participate in the European Union Proficiency Tests (EUPTs) for pesticide residues organised by the European Union. These proficiency tests are carried out on an annual basis in order to ensure the quality, accuracy and comparability of the residue data reported by EU Member States to the European Union, as well as by other Member States, within the framework of the EU co-ordinated and national monitoring programmes.

Regulation (EC) No 882/2004[2] lays down the general tasks, duties and requirements for European Union Reference Laboratories (EURLs)[3] for Food, Feed and Animal Health. Among these tasks is the provision for independently-organised comparative tests. European Proficiency Test 14 has been organised by the EURL in Fruit and Vegetables at the University of Almería, Spain[4].

Participation in European Proficiency Test 14 was mandatory for all National Reference Laboratories, as well as all other EU official laboratories, involved in the determination of pesticide residues in fruit and vegetables for the EU-coordinated monitoring programme or for their own national programmes. Additionally, laboratories from Iceland, Norway, Switzerland, Brazil, Egypt, Israel, Serbia, Turkey and Uruguay, who had been invited to take part in the previous test, again participated. Argentina, Chile, Croatia, India, Malta and Peru participated in this test for the first time.

This report will be presented to the European Union Standing Committee for Animal Health and the Food Chain. In addition, DG-SANCO has full access to all data from the EUPTs including the lab-code/lab-name key.

---

[1] Regulation (EC) No 396/2005, published in the OJ of the EU L70 on 16.03.2005, last amended by Regulation 839/2008 published in the OJ of the EU L234 on 30.08.2008.

[2] Regulation (EC) No 882/2004 of the European Parliament and of the Council on official controls performed to ensure compliance verification with feed and food law, animal health and animal welfare rules. Published in the OJ of the EU L191 on 28.05.2004.

[3] The Community Reference Laboratory (CRL) changed its name to the European Union Reference Laboratory (EURL) on 1st December 2009 as a result of the Treaty of Lisbon. OJ of the EU C306 on 17.12.2007.

[4] Commission Regulation (EC) No 776/2006 of 23rd May 2006 - amending Annex VII to Regulation (EC) No 882/2004 of the European Parliament and of the Council as regards European Union Reference Laboratories.

1. INTRODUCTION

One hundred and sixty-seven laboratories agreed to participate in European Union Proficiency Test 14.

The proficiency test was performed in 2012 using pear homogenate. The pears were grown in Aragón, Spain, and were treated post-harvest using commercial formulations and analytical standards - both were applied using a microspray technique. Eighteen pesticides were used for the treatments (ten as diluted commercial formulations and eight as standards dissolved in solvent). Participating laboratories were also provided with a 'blank' pear homogenate as well as the treated test material.

The test materials, 300 g of pear homogenate containing pesticide residues together with 300 g of 'blank' pear homogenate, were shipped to participants on 20th February 2012. The deadline for result submission to the Organiser was 14th March 2012. The participants were provided with a list of one hundred and seventy-three target pesticide residues (Annex 1) and informed that any of these pesticides might be present in the test material. They were asked to determine the residue levels of all the components that they detected and report the concentrations. This list of target pesticides also contained the Minimum Required Reporting Level (MRRL) for each pesticide fixed at 0.01 mg/Kg, except for the following pesticides which have lower MRRLs based on Regulation (EU) No. 396/2005 and EU Directive 2006/125/EU: cadusafos (0.006 mg/Kg); dimethoate and omethoate (0.003 mg/Kg); ethoprophos (0.008 mg/Kg); fipronil (0.004 mg/Kg) along with oxydemeton-methyl and demeton-S-methylsulfone (0.006 mg/Kg).

Participants were asked to analyse the blank test material and report results for any of the pesticides they found which were included in the list. This 'blank' material was intended to be used in recovery experiments for the pesticides found in the test material and, if necessary, for the preparation of matrix-matched calibration standard solutions.

The median values of the analytical data submitted were used to obtain the assigned (true) values for each of the pesticide residues present. A fit-for-purpose relative target standard deviation (FFP RSD) of 25 % was chosen to calculate the target standard deviations (σ) as well as the z-scores for each pesticide.

For the assessment of overall laboratory performance, only the Average of the Squared z-Score (AZ^2) has been used. Laboratories that have 'sufficient scope' and are able to detect at least 90 % of the pesticides present in the test material and report no false positives will be classified into Category A. Within this category, the laboratories have also been subclassified as 'good', 'satisfactory' or 'unsatisfactory', in relation to the overall accuracy of the results that they reported.

All the other laboratories have been classified into Category B, because they have demonstrated 'insufficient scope'. For laboratories in Category B, individual z-scores have been calculated but their overall performance has not been assessed. They have been listed in order of the number of pesticides sought and the number of acceptable z-scores achieved. In addition, the laboratories in the Category B table have been ranked according to the number of pesticides detected from the total number of pesticides taken into account for the evaluation.

Laboratories that did not report results have not been classified into any category and are indicated in Annex 2 with the rest of laboratories that agreed to participate in EUPT-FV14 and the other laboratories that are not members of the European Union or EFTA.

2. TEST MATERIALS

2.1 Analytical methods

The two analytical methods described briefly below were performed by the EURL-FV in order to conduct the homogeneity and stability tests. These were:

- GC method [1]: The sample is extracted with ethyl acetate along with sodium chloride and magnesium sulphate anhydrous. The mixture is shaken and centrifuged. The final extract is injected into GC-MS/MS.
- LC method: The sample is extracted with ethyl acetate and sodium hidroxide. The mixture is shaken and centrifuged. The extract is evaporated and redissolved in methanol and directly injected into LC-MS/MS.

Boscalid, cadusafos, cyprodinil, diazinon, diphenylamine, fludioxonil , folpet, iprodione, phosmet, pyrimethanil and spirodiclofen were determined using the GC-based method described above. All other pesticides (flufenoxuron, indoxacarb, methoxyfenozide, pyraclostrobin, thiabendazole, thiacloprid and triflumuron) were analysed using the LC-based method described above. For confirmation purposes, MS/MS spectra were used.

2.2 Preparation of the treated test material

Before preparation of the test material, the pesticides and target residue levels were selected, following recommendations made by the Quality Control Group (QCG), which had been appointed specifically for Proficiency Test 14. One hundred and twenty-five kilograms of pear were treated, some with post-harvest commercial pesticide formulations dissolved in water (cyprodinil, fludioxonil, diazinon, indoxacarb, iprodione, methoxyfenozide, phosmet, pyrimethanil, thiabendazole and thiacloprid) and then applied to the pears using a microspray. Others were treated with analytical standards dissolved in solvent (boscalid, cadusafos, diphenylamine, flufenoxuron, folpet, pyraclostrobin, spirodiclofen and triflumuron) then, likewise, applied to the pears using a microspray. After all the pesticides had been applied, a portion of the treated pear was taken and analysed to check if the residue levels present were close to the target levels or whether any additional spraying was necessary. When the residue levels in the pears were close to those recommended by the QCG, the entire sample was frozen and processed using liquid nitrogen and a mincer. The frozen minced pears were mixed in a constantly-spinning container until a homogeneous material was obtained. 300 g portions of the well-mixed homogenate were weighed out into screw-capped polyethylene plastic bottles, sealed and stored in a freezer at about - 20 °C prior to distribution to participants.

2.3 Preparation of 'blank' test material

The pears used for the production of the blank test material were organically grown in the same field as the test material. A homogenate was prepared in the same way as the treated test material described previously.

2.4 Homogeneity test

Ten bottles of treated test material were randomly chosen from those stored in the freezer and analyses were performed on duplicate portions taken from each bottle. The sequence of analyses was determined using a table of randomly-generated numbers. The injection sequence of the twenty extracts that were analysed by GC and LC was also randomly chosen. The quantification by GC and LC was performed using three point calibration curves constructed from matrix-matched standards prepared from the 'blank' pear test material.

The statistical evaluation was performed according to the International Harmonized Protocol published by IUPAC, ISO and AOAC [2]. The individual residue data from the homogeneity tests are given in Appendix 1. The results of the statistical analyses are given in Table 2.1. The acceptance criteria for the test material to be sufficiently homogenous for the proficiency test were that: $Ss^2 < c$, where Ss is the between-bottle sampling standard deviation and $c = F_1\sigma^2_{all} + F_2s^2_{an}$; F_1 and F_2 being constant values of 1.88 and 1.01, respectively, from the ten samples taken, and σ^2_{all} = 0.3 x FFP RSD(25 %) x the analytical sampling mean for all the pesticides.

Table 2.1. Statistical evaluation of the homogeneity test data (n = 20 analyses)

Pesticide	Mean Conc. (mg/Kg)	Ss^2	c	$Ss^2 < c$ Pass/Fail
Boscalid	0.177	1.37×10^{-4}	4.79×10^{-4}	Pass
Cadusafos	0.080	0	2.33×10^{-4}	Pass
Cyprodinil	0.230	5.3×10^{-5}	8.62×10^{-4}	Pass
Diazinon	0.058	1×10^{-5}	7.83×10^{-5}	Pass
Diphenylamine	0.134	1.24×10^{-4}	4.64×10^{-4}	Pass
Fludioxonil	0.181	0	5.87×10^{-4}	Pass
Flufenoxuron	0.423	7.75×10^{-4}	2.94×10^{-3}	Pass
Folpet	0.417	0	7.21×10^{-3}	Pass
Indoxacarb	0.096	8.5×10^{-5}	4.64×10^{-4}	Pass
Iprodione	0.307	2.3×10^{-5}	1.59×10^{-3}	Pass
Methoxyfenozide	0.142	3×10^{-5}	3.210×10^{-4}	Pass
Phosmet	0.077	1.1×10^{-5}	2.35×10^{-4}	Pass
Pyraclostrobin	0.178	0	1.92×10^{-3}	Pass

Pesticide	Mean Conc. (mg/Kg)	Ss^2	c	$Ss^2 < c$ Pass/Fail
Pyrimethanil	0.107	3.4×10^{-5}	1.56×10^{-4}	Pass
Spirodiclofen	0.099	0	1.15×10^{-3}	Pass
Thiabendazole	0.501	0	3.25×10^{-3}	Pass
Thiacloprid	0.033	3×10^{-6}	1.67×10^{-5}	Pass
Triflumuron	0.445	1.49×10^{-3}	3.49×10^{-3}	Pass

S_s: Between-Sampling Standard Deviation

As can be seen from Table 2.1, all the pesticides used to treat the matrix passed the homogeneity test.

2.5 Stability tests

The two analytical methods described briefly in section 2.1 were also used for the stability tests.
The tests were performed on two occasions. On each occasion, a single bottle stored in the freezer at -20°C was chosen randomly and duplicate analyses were performed.

The two occasions were:
- Day 1: coinciding with the first test materials shipments, which took place on 20th February 2012.
- Day 2: shortly after the deadline for reporting results, on 14th March 2012.

The individual results are given in Table 2.2. In general, these tests did not show any significant decrease in the pesticide levels. This demonstrates that, for the duration of the proficiency test and provided that the storage conditions prescribed were followed, the time elapsed until the participants performed the analysis would not have influenced their results.
Moreover, regarding the stability of the sample arriving not completely frozen, a duplicate analysis of a bottle reproducing the delivery conditions the samples experienced for 48 hours was performed – which found differences of no greater than 10 %.
Laboratories could therefore be sufficiently confident in accepting the sample even if it was not completely frozen. Results for this 48 hours stability test are indicated in Table 2.3

Table 2.2. Statistical test for analytical precision and to demonstrate results stability after a time-elapse interval

Pesticide	Concentration (mg/kg)							
	Day 1 (1st analysis)	Day 1 (2nd analysis)	Mean 1	Day 2 (1st analysis)	Day 2 (2nd analysis)	Mean 2	(M2-M1) M1	%
Boscalid	0.175	0.170	0.172	0.159	0.170	0.164	-0.046	-5
Cadusafos	0.086	0.081	0.084	0.067	0.082	0.075	-0.108	-11
Cyprodinil	0.233	0.223	0.228	0.252	0.238	0.245	0.075	7
Diazinon	0.058	0.054	0.056	0.047	0.055	0.051	-0.089	-9
Diphenylamine	0.137	0.131	0.134	0.124	0.116	0.120	-0.104	-10
Fludioxonil	0.185	0.190	0.187	0.186	0.178	0.182	-0.027	-3
Flufenoxuron	0.434	0.421	0.428	0.380	0.375	0.378	-0.117	-12
Folpet	0.415	0.411	0.413	0.350	0.363	0.357	-0.137	-14
Indoxacarb	0.093	0.095	0.094	0.097	0.087	0.092	-0.021	-2
Iprodione	0.312	0.317	0.315	0.276	0.301	0.289	-0.083	-8
Methoxyfenozide	0.150	0.146	0.148	0.139	0.135	0.137	-0.077	-8
Phosmet	0.075	0.074	0.075	0.059	0.069	0.064	-0.143	-14
Pyraclostrobin	0.179	0.170	0.174	0.178	0.169	0.174	-0.003	0
Pyrimethanil	0.106	0.105	0.106	0.097	0.111	0.104	-0.014	-1
Spirodiclofen	0.099	0.100	0.100	0.090	0.083	0.087	-0.131	-13
Thiabendazole	0.505	0.499	0.502	0.459	0.485	0.472	-0.061	-6
Thiacloprid	0.033	0.030	0.032	0.033	0.032	0.033	0.032	3
Triflumuron	0.476	0.442	0.459	0.434	0.459	0.447	-0.028	-3

Table 2.3. Statistical test for analytical precision and to demonstrate stability for the 48-hour time-elapse interval.

Pesticide	Concentration (mg/kg)							
	Day 1 (1st analysis)	Day 1 (2nd analysis)	Mean 1	48h (1st analysis)	48h (2nd analysis)	Mean 2	(M2-M1) M1	%
Boscalid	0.175	0.170	0.172	0.166	0.160	0.163	-0.053	-5
Cadusafos	0.086	0.081	0.084	0.077	0.078	0.078	-0.072	-7
Cyprodinil	0.233	0.223	0.228	0.221	0.231	0.226	-0.009	-1
Diazinon	0.058	0.054	0.056	0.049	0.054	0.052	-0.080	-8
Diphenylamine	0.137	0.131	0.134	0.110	0.120	0.115	-0.141	-14
Fludioxonil	0.185	0.190	0.187	0.168	0.163	0.166	-0.116	-12
Flufenoxuron	0.434	0.421	0.428	0.359	0.398	0.379	-0.115	-11
Folpet	0.415	0.411	0.413	0.348	0.398	0.373	-0.097	-10

Pesticide	Concentration (mg/kg)							
	Day 1 (1st analysis)	Day 1 (2nd analysis)	Mean 1	48h (1st analysis)	48h (2nd analysis)	Mean 2	(M2-M1) M1	%
Indoxacarb	0.093	0.095	0.094	0.088	0.087	0.088	-0.069	-7
Iprodione	0.312	0.317	0.315	0.298	0.287	0.293	-0.070	-7
Methoxyfenozide	0.150	0.146	0.148	0.136	0.130	0.133	-0.101	-10
Phosmet	0.075	0.074	0.075	0.059	0.067	0.063	-0.154	-15
Pyraclostrobin	0.179	0.170	0.174	0.177	0.180	0.179	0.026	3
Pyrimethanil	0.106	0.105	0.106	0.088	0.094	0.091	-0.137	-14
Spirodiclofen	0.099	0.100	0.100	0.094	0.078	0.086	-0.136	-14
Thiabendazole	0.505	0.499	0.502	0.556	0.504	0.530	0.056	6
Thiacloprid	0.033	0.030	0.032	0.034	0.032	0.033	0.048	5
Triflumuron	0.476	0.442	0.459	0.436	0.440	0.438	-0.046	-5

2.6 Distribution of test material and protocol to participants

One bottle of frozen treated test material and one bottle of frozen 'blank' material were shipped to each participant in boxes containing dry ice. The samples were sent on 20th February 2012.

Before sample shipment, the laboratories received full instructions (Annex 1) for the receipt, storage and analysis of the test materials although they were encouraged to use their normal sample receipt procedure and method(s) of analysis. These instructions were uploaded onto the open site of the EURL-FV webpage as part of the Specific Protocol. The Application Form was also available as an on-line form. When applying to participate in the test, each laboratory decided on their own password, which was required in order to enter the restricted zone where Forms 0-5 could be accessed on-line. This information was made available when laboratories received an e-mail from the Organiser confirming their acceptance along with their Lab Code and thus allowing them to participate. This ensured that confidentiality was maintained throughout the duration of Proficiency Test 14. The Target Pesticide List and the Minimum Required Reporting Levels (MRRLs), as established by the Organiser, were uploaded onto the EURL-FV open website to allow laboratories sufficient time to purchase standards and to validate their methods.

3. STATISTICAL METHODS

3.1 False positives and negatives

3.1.1 False positives

These are results above the MRRLs that show the apparent presence of any pesticide that were listed in the Target Pesticide List, but which was: (i) not detected by the Organiser, even after repeated analyses, and (ii) not detected by most of the participating laboratories (i.e. 95 % of the laboratories) that had targeted the specific pesticide.

Results reported which were lower than the MRRL have been disregarded and have not therefore been considered to be false positives.

No z-score values have been calculated for false positive results. Any laboratory reporting a false positive, even when reporting the necessary number of pesticides to obtain sufficient scope, has been classified into Category B.

3.1.2 False negatives

These are results for any pesticide reported by the laboratories as "analysed" but reported without numerical values, although they were used by the Organiser to treat the test material and were detected by the Organiser and the majority of the participants that had targeted this specific pesticide, at or above the MRRL.

z-Scores have been calculated for all pesticides detected and reported at levels at, or above, the MRRL, including false negatives. However, these z-scores were not taken into account in assessing the 90 % of pesticides present in the sample needed to be classified into Category A.

3.2 Estimation of the assigned values

The assigned values for each pesticide were based on the median level of all the reported results, excluding outliers. Individual results without any numerical values reported, such as detected (D), were not considered. The spread of results for each pesticide was tested for multimodality.

3.3 Fixed target standard deviations

Based on the experience gained from previous EU proficiency tests and recommendations from the Advisory Group, a fixed relative standard deviation (FFP RSD) of 25 % was chosen [3]. This is in line with the internationally-accepted target Measurement Uncertainty of 50 % for multiresidue analysis of pesticides [4], which is derived from, and linked to, the EUPTs. The same target RSD has been applied to all the pesticides, independent of concentration. The target standard deviation (σ) for each individual pesticide was calculated by multiplying this FFP RSD by the assigned value. The FFP-RSD for each pesticide was compared to Qn RSD [5].

3.4 z-Scores

A z-score for each laboratory/pesticide combination was calculated according to the following equation:

$$z = (x-X) / \sigma$$

Where:

- x is the result reported by the participant, the MRRL or the RL (whichever one is lower) for those labs not having detected the presence of the pesticide in the sample.
- X is the assigned value.
- σ is the target standard deviation (the FFP-RSD of 25 % multiplied by the assigned value).

z-Score classification is as follows:

$|z| \leq 2$ Acceptable

$2 < |z| \leq 3$ Questionable

$|z| > 3$ Unacceptable

- Any z-score values of $|z| > 5$ have been reported as '5'.
- No z-score calculations have been performed for false positive results.
- For false negative results, the MRRL (or RL) has been used to calculate the z-score. These z-scores have also been included in the graphical representation, and are marked with an asterisk.

3.5 Combined z-Scores

In order to evaluate each laboratory's overall performance according to the quality of its results and its scope, two classifications - Category A and B - were used. To be classified into Category A, laboratories had to detect (that is *sought and detected*) 90 % or more of the total number of pesticides present in the test material and report no false positives. If these two requirements were met, then the combined z-scores were calculated as the 'Average of the Squared z-Score' (AZ^2) [6].

3.5.1 The Average of the Squared z-Score (AZ^2)

The 'Average of the Squared z-Score' was introduced for the first time in EUPT 12. This formula, analogous to the SWZ, also consists of a weighting factor ω defined as follows:

$$\omega(Z_i) = Z_i$$

But now the resultant Average of the Squared z-Score formula (AZ^2) is:

$$AZ^2 = \frac{\sum_{i=1}^{n} |Z_i| \omega(Z_i)}{n}$$

The resultant formula is the sum of the z-score value, multiplied by itself and divided by the number of z-scores (n) detected by each laboratory, including those from false negatives.

This formula is subsequently used to produce an overall classification of laboratories with three sub-classifications: 'good', 'satisfactory' and 'unsatisfactory'.

$|AZ^2| \leq 2$ Good
$2 < |AZ^2| \leq 3$ Satisfactory
$|AZ^2| > 3$ Unsatisfactory

In this way, a simple, single, combined value is also achieved, as with the previous formula. However, this time, it is more mathematically justifiable as it uses the actual z-score value rather than the factors 1, 3 and 5. Again, the aim is to encourage laboratories to not only improve the accuracy of their results but also to analyse a greater number of pesticides.

Laboratories that did not detect sufficient pesticides, or reported a false positive, have been placed in Category B and no combined z-score has been calculated.
In Appendices 5 and 6, only results of laboratories in Category A have been presented, along with their graphical representation.

4. RESULTS

4.1 Summary of reported results

One hundred and sixty-seven laboratories agreed to participate in this proficiency test and all submitted results except two. The results reported by all the laboratories are presented in this report. However, only results reported by laboratories from EU-countries and EFTA-countries (Iceland, Norway, and Switzerland) have been included in the statistical treatment. The results from the laboratories in Argentina, Brazil, Chile, Croatia, Egypt, India, Israel, Peru, Serbia, Turkey and Uruguay have not been included. This last group totals fourteen laboratories. Eighteen pesticides were used to treat the sample. For all of them except for thiacloprid, statistical results have been calculated and presented in this report. In the case of thiacloprid, this pesticide MRRL was 0.010 mg/Kg and the achieved concentration median was 0.030 mg/Kg. As stated in the general protocol, "In cases of the assigned value being less than a factor of 4 times the MRRL, false negatives will not be assigned as this is not statistically justifiable". For this reason this pesticide will not be used for the evaluation of the laboratories, although for informative purposes only its histogram will be included in the Final Report. A summary of the reported results can be seen below in Table 4.1.

Table 4.1 Summary of Reported Results

Pesticides	No. of Reported Results	No. of False Negative Results	No. of Not Analysed Results	Percentage of Reported Results (out of 151)
Boscalid	126	1	24	83
Cadusafos	99	4	48	66
Cyprodinil	130	3	18	86
Diazinon	146	0	5	97
Diphenylamine	118	3	30	78
Fludioxonil	128	1	22	85
Flufenoxuron	101	0	50	67
Folpet	105	5	41	70
Indoxacarb	120	3	28	79
Iprodione	139	2	10	92
Methoxyfenozide	98	1	52	65
Phosmet	126	6	19	83
Pyraclostrobin	110	0	41	73
Pyrimethanil	136	2	13	90
Spirodiclofen	87	4	60	58
Thiabendazole	120	1	30	79
Triflumuron	126	1	24	83

* The % of Reported Results comes from 151 laboratories. It does not take into account the 14 laboratories from Argentina, Brazil, Chile, Croatia, Egypt, India, Israel, Peru, Serbia, Turkey and Uruguay or the two laboratories not submitting results.

The laboratories that agreed to participate are listed in Annex 2. All analytical results reported by the participants are given in Appendix 3, whilst the analytical methods used are given in Appendix 7 (only available in the electronic version).

4.1.1 False positives

Fourteen laboratories reported results for additional pesticides that had not been used to treat the test material. These pesticides and the residue levels reported are presented in Table 4.2 together with the MRRL. Where the reported residue level of the erroneously-detected pesticide was higher than the assigned MRRL value in the Target Pesticide List (Annex 1), the result has been considered as a false positive.

Five out of these fourteen laboratories reporting a false positive result have not been classified into Category A despite achieving sufficient scope.

Table 4.2 Laboratories that reported as 'official concentration' results for pesticides that were not present in the treated test material

Laboratory Code	Pesticide	Concentration (mg/kg)	Determination Technique	RL (mg/Kg)	MRRL (mg/Kg)
Lab034	Azinphos-methyl	0.067	LC-MS/MS (QQQ)	0.01	0.01
Lab044	Metalaxyl and metalaxyl-m	0.066	GC-MS	0.02	0.01
Lab047	Tebufenozide	0.080	LC-MS/MS (QQQ)	0.01	0.01
Lab066	Diflubenzuron	0.102	GC-MS	0.01	0.01
Lab069	Fenthion	0.290	LC-MS/MS (QQQ)	0.01	0.01
Lab107	Diflubenzuron	0.439	GC-MS	0.01	0.01
Lab111	Etoprophos	0.027	GC-NPD	0.02	0.008
Lab111	Acetamiprid	0.016	GC-ECD	0.01	0.01
Lab113	Carbosulfan	0.071	GC-MS/MS (QQQ)	0.05	0.01
Lab125	Triadimenol	0.015	GC-MS	0.01	0.01

Laboratory Code	Pesticide	Concentration (mg/kg)	Determination Technique	RL (mg/Kg)	MRRL (mg/Kg)
Lab133	Fenoxycarb	0.947	GC-MS	0.01	0.01
Lab133	Metalaxyl and metalaxyl-m	0.104	GC-MS	0.01	0.01
Lab138	Clofentezine (only parent compound)	0.032	GC-MS	0.01	0.01
Lab145	Carbendazim (sum of benomyl and carbendazim expressed as carbendazim)	0.084	LC-MS/MS (QQQ)	0.01	0.01
Lab145	Methiocarb	0.179	LC-MS/MS (QQQ)	0.01	0.01
Lab148	Diflubenzuron	0.420	GC-MS	0.01	0.01
Lab161	Azinphos-methyl	0.033	LC-MS/MS (QQQ)	0.01	0.01

False positives from Argentina, Brazil, Chile, Croatia, Egypt, India, Israel, Peru, Serbia, Turkey and Uruguay (if any) have not been included in this table.

If the residue levels reported were below the MRRLs, or if the pesticides did not appear in the pesticide list included in Annex I, then they were not considered to be false positives.

4.1.2 False negatives

Table 4.3 summarises the results from laboratories that reported false negatives.

Table 4.3.
Laboratories that failed to report pesticides that were present in the treated test material.

Laboratory Code	Boscalid	Cadusafos	Cyprodinil	Diazinon	Diphenylamine	Fludioxonil	Flufenoxuron	Folpet	Indoxacarb	Iprodione	Methoxyfenozide	Phosmet	Pyraclostrobin	Pyrimethanil	Spirodiclofen	Thiabendazole	Triflumuron
011		ND															
027											ND	ND					
031					ND												
032															ND		
036								ND									
049												ND					
057					ND												
062														ND			
064		ND															
065					ND												
069								ND				ND				ND	
074	ND	ND						ND	ND						ND		
079		ND															
111								ND									
114						ND		ND									ND
115												ND					
121										ND		ND					
125									ND								
131																	
136									ND	ND							
141			ND		ND							ND					
145			ND											ND	ND		
149															ND		
150												ND					
152			ND														

False negatives from Argentina, Brazil, Chile, Croatia, Egypt, India, Israel, Peru, Serbia, Turkey and Uruguay (if any) have not been included in this table.

4.1.3 Distribution of data

The distributions of the residue levels of the pesticides reported by the laboratories have been plotted as histograms after removing results that were distant from the main population (results that gave rise to z-scores above 5.0 in the first round calculation) in Appendix 2.

4.2 Assigned values and target standard deviations

The assigned values were based on the median values calculated using all the reported results, but excluding those values that were far from the median, i.e. outliers. The assigned values for the eighteen pesticides are presented in Table 4.4.

The target standard deviation was calculated using a fixed FFP RSD value of 25 %. For comparison, a robust standard deviation (Qn) was also calculated for informative purposes. These RSDs can be seen in Table 4.4.

Table 4.4 Median values and %RSDs for all pesticides present in the test material.

Pesticides	MRRL (mg/Kg)	Median (mg/Kg)	FFP RSD (%)	Qn RSD (%)
Boscalid	0.01	0.177	25	20
Cadusafos	0.006	0.074	25	21
Cyprodinil	0.01	0.247	25	20
Diazinon	0.01	0.053	25	21
Diphenylamine	0.01	0.188	25	30
Fludioxonil	0.01	0.171	25	22
Flufenoxuron	0.01	0.491	25	22
Folpet	0.01	0.413	25	37
Indoxacarb	0.01	0.083	25	19
Iprodione	0.01	0.334	25	21
Methoxyfenocide	0.01	0.154	25	16
Phosmet	0.01	0.068	25	26
Pyraclostrobin	0.01	0.172	25	21
Pyrimethanil	0.01	0.107	25	19
Spirodiclofen	0.01	0.111	25	18
Thiabendazole	0.01	0.461	25	20
Thiacloprid	0.01	0.030	25	15
Triflumuron	0.01	0.455	25	21

4.3 Assessment of laboratory performance

4.3.1 z-Scores

z-Scores were calculated using the FFP RSD of 25 % for all the pesticides present. In Appendix 3, the individual z-scores are presented for each laboratory, together with the median values for each pesticide. The z-scores for Argentina, Brazil, Chile, Croatia, Egypt, India, Israel, Peru, Serbia, Turkey and Uruguay have been included in Appendix 3 but have not been considered in the following table.

Table 4.5 Classification of z-scores for the pesticides reported

Pesticides	Acceptable (%)	Questionable (%)	Unacceptable (%)
Boscalid	94	2	4
Cadusafos	96	0	4
Cyprodinil	94	3	3
Diazinon	97	2	1
Diphenylamine	89	5	6
Fludioxonil	94	2	4
Flufenoxuron	91	5	4
Folpet	90	3	7
Indoxacarb	94	1	5
Iprodione	93	2	5
Methoxyfenozide	96	3	1
Phosmet	94	0	6
Pyraclostrobin	95	1	4
Pyrimethanil	96	2	2
Spirodiclofen	89	2	9
Thiabendazole	97	1	2
Triflumuron	96	2	2

z-Scores for false negative results have been calculated using the MRRL value reported in the Target Pesticide List (Annex 1) or the RL value from the laboratory (whichever was lower).

In Appendix 4, graphical representations of the z-scores are presented. No z-scores have been calculated for false positive results. z-Scores for false negative results have been included on the chart and are indicated by an asterisk. The charts have been constructed using different colour bars according to the determination technique used for each particular pesticide.

4.3.2 Combined z-Scores

As previously mentioned in Section 3.5, only the AZ^2 formula has been applied to categorise the laboratories into Category A and B.

The table in Appendix 5 shows the values of individual z-scores for each pesticide and the combined 'Average of the Squared z-Score' (AZ^2) for those EU and EFTA laboratories in Category A. In this category are the laboratories that sought and detected fifteen or more compounds and did not report any false positive result. A graphical representation of the results for these laboratories can also be found in Appendix 6.

Eighty-three of the one hundred and fifty-one EU and EFTA laboratories that submitted results have been classified into Category A (55 %).
From the AZ^2, ninety-two percent were classed as 'good', two percent as 'satisfactory' and six percent as 'unsatisfactory'.
Of the sixty-eight laboratories in Category B, seven would have been in Category A if they had not reported a false positive result.

Table 4.6.1 shows the laboratories in Category A, the number of pesticides reported, the AZ^2 values and their subclassifications. Laboratories that reported false negative results in Category A are marked with an asterisk and laboratories with AZ^2 values greater than 3.0 have been marked with an '↑'.

Table 4.6.2 shows the laboratories in Category B, the number of results reported, and the number of acceptable z-scores. Laboratories reporting a false negative are marked with an asterisk and laboratories reporting a false positive are marked with a '+'.

The AZ^2 graphical representation for laboratories classified into Category A can be seen in Appendix 6. The National Reference Laboratories for Fruit and Vegetables have been plotted using a different colour.

Laboratory performance over the last three EUPTs has been summarised as follows:

- For EUPT-FV-14, out of 151 laboratories (EU and EFTA), 83 were in Category A with the following classes: 5 'unsatisfactory', 2 'satisfactory' and 76 'good' using the AZ^2 formula.
- For EUPT-FV-13, out of 144 laboratories (EU and EFTA), 81 were in Category A with the following classes: 10 'unsatisfactory', 6 'satisfactory' and 65 'good' using the AZ^2 formula.
- For EUPT-FV-12, out of 140 laboratories (EU and EFTA), 63 were in Category A with the following classes: 8 'unsatisfactory', 8 'satisfactory' and 47 'good'.

Table 4.6.1 Performance and Classification of laboratories in Category A using the AZ^2 formula

Lab Code	No. of z-scores achieved in total (n)	AZ^2	Classification
Lab058	16	0.1	Good
Lab060	17	0.1	Good
Lab156	15	0.1	Good

Lab Code	No. of z-scores achieved in total (n)	AZ^2	Classification
Lab026	17	0.2	Good
Lab039	17	0.2	Good
Lab043	16	0.2	Good
Lab054	17	0.2	Good
Lab081	17	0.2	Good
Lab084	17	0.2	Good
Lab099	17	0.2	Good
Lab135	17	0.2	Good
Lab003	17	0.3	Good
Lab005	17	0.3	Good
Lab009	17	0.3	Good
Lab021	17	0.3	Good
Lab025	17	0.3	Good
Lab056	17	0.3	Good
Lab059	17	0.3	Good
Lab077	17	0.3	Good
Lab087	15	0.3	Good
Lab101	17	0.3	Good
Lab105	17	0.3	Good
Lab006	17	0.4	Good
Lab023	17	0.4	Good
Lab024	17	0.4	Good
Lab092	17	0.4	Good
Lab117	17	0.4	Good
Lab123	17	0.4	Good
Lab128	17	0.4	Good
Lab012	15	0.5	Good
Lab017	17	0.5	Good
Lab018	17	0.5	Good
Lab050	17	0.5	Good
Lab061	17	0.5	Good
Lab109	17	0.5	Good
Lab120	17	0.5	Good
Lab134	15	0.5	Good
Lab035	17	0.6	Good
Lab078	17	0.6	Good
Lab085	17	0.6	Good
Lab088	15	0.6	Good
Lab126	17	0.6	Good
Lab131*	17	0.6	Good
Lab137	15	0.6	Good
Lab070	17	0.7	Good

Lab Code	No. of z-scores achieved in total (n)	AZ^2	Classification
Lab102	16	0.7	Good
Lab015	17	0.8	Good
Lab019	16	0.8	Good
Lab052	17	0.8	Good
Lab151	17	0.8	Good
Lab014	17	0.9	Good
Lab028	17	0.9	Good
Lab048	17	0.9	Good
Lab029	15	1.0	Good
Lab038	17	1.0	Good
Lab045	17	1.0	Good
Lab055	17	1.0	Good
Lab094	17	1.0	Good
Lab097	17	1.0	Good
Lab011*	17	1.1	Good
Lab071	17	1.1	Good
Lab167	17	1.1	Good
Lab075	17	1.2	Good
Lab001	17	1.3	Good
Lab042	17	1.3	Good
Lab118	17	1.3	Good
Lab144	15	1.3	Good
Lab002	17	1.4	Good
Lab155	17	1.4	Good
Lab149*	16	1.5	Good
Lab004	17	1.6	Good
Lab062*	17	1.6	Good
Lab072	16	1.8	Good
Lab112	17	1.8	Good
Lab093	17	1.9	Good
Lab063	17	2.0	Good
Lab053	16	2.8	Satisfactory
Lab146	17	2.8	Satisfactory
Lab157↑	17	3.5	Unsatisfactory
Lab127↑	17	3.8	Unsatisfactory
Lab036↑*	17	4.2	Unsatisfactory
Lab027↑*	17	5.0	Unsatisfactory
Lab032↑*	17	5.0	Unsatisfactory

* Laboratories reporting a false negative result.
↑ Laboratories with AZ^2 values > 3

Table 4.6.2 Performance of laboratories in Category B.

Lab Code	No. of acceptable z-scores	No. of pesticides detected	No. of total z-scores	% No. of detected z-scores / No. of pesticides present
Lab034+	17	17	17	100
Lab066+	15	17	17	100
Lab107+	16	16	16	94
Lab138+	16	16	16	94
Lab161+	16	16	16	94
Lab047+	15	15	15	88
Lab113+	14	15	15	88
Lab073	14	14	14	82
Lab083	14	14	14	82
Lab108	14	14	14	82
Lab162	10	14	14	82
Lab020	13	13	13	76
Lab080	12	13	13	76
Lab129	11	13	13	76
Lab136*	4	13	15	76
Lab165	13	13	13	76
Lab041	12	12	12	71
Lab046	12	12	12	71
Lab114*	10	12	15	71
Lab145*+	11	12	15	71
Lab148+	12	12	12	71
Lab154	11	12	12	71
Lab159	11	12	12	71
Lab031*	10	11	12	65
Lab116	11	11	11	65
Lab119	7	11	11	65
Lab133+	9	11	11	65
Lab090	10	10	10	59
Lab106	9	10	10	59
Lab016	9	9	9	53
Lab064*	7	9	10	53
Lab068	9	9	9	53
Lab074*	9	9	14	53
Lab091	9	9	9	53
Lab103	9	9	9	53
Lab132	9	9	9	53
Lab022	5	8	8	47
Lab051	8	8	8	47
Lab069*+	6	8	11	47
Lab104	8	8	8	47
Lab150*	7	8	9	47
Lab010	6	7	7	41
Lab044+	6	7	7	41

Lab Code	No. of acceptable z-scores	No. of pesticides detected	No. of total z-scores	% No. of detected z-scores / No. of pesticides present
Lab065*	7	7	8	41
Lab124	7	7	7	41
Lab125*+	7	7	8	41
Lab141*	3	7	8	41
Lab142	7	7	7	41
Lab153	7	7	7	41
Lab049*	3	6	7	35
Lab082	6	6	6	35
Lab121*	4	6	8	35
Lab158	5	6	6	35
Lab013	5	5	5	29
Lab057*	5	5	6	29
Lab115*	5	5	6	29
Lab122	4	4	4	24
Lab079*	3	3	4	18
Lab095	3	3	3	18
Lab111*+	3	3	4	18
Lab030	2	2	2	12
Lab089	2	2	2	12
Lab152*	0	2	3	12
Lab139	1	1	1	6
Lab163	1	1	1	6
Lab168	1	1	1	6
Lab067	0	0	0	0
Lab169	0	0	0	0

* Laboratories reporting a false negative result.
+ Laboratories reporting a false positive result.

5. CONCLUSIONS

One hundred and sixty-seven laboratories agreed to participate in EUPT-FV-14. Out of these, only two did not submit results for the analysis of the treated pear homogenate test material. Fourteen of those submitting results were not from EU or EFTA countries, so no statistical analysis was conducted on their results.

The pesticide residue levels in the treated pear test material were in close agreement with the target levels proposed by the Quality Control Group, except for the case of thiacloprid. For this pesticide the achieved concentration median was 0.030 mg/Kg, lower than the expected level. For this reason, and due to statistical reasons specified in the general protocol, thiacloprid was not used for the evaluation of the laboratories.

For each laboratory/pesticide combination, z-scores based on the FFP RSD of 25 % have been calculated. The different chromatographic techniques used by the participant laboratories, either gas or liquid, are shown in the z-score graphs. Asterisks have been used to mark each bar of the chart to represent a false negative result reported as 'ND' by a laboratory. Classification of z-score values into 'acceptable', 'questionable' or 'unacceptable' has also been undertaken.

The criterion of using the Average of Squared z-Scores formula has been used for evaluation of the participant laboratories. Laboratories reporting fifteen or more results, and no false positive results, were considered to have sufficient scope and were therefore classified into Category A. Laboratories in Category A were also classed as 'good', 'satisfactory' or 'unsatisfactory'. Laboratories reporting false negatives were marked with an asterisk and those obtaining an AZ^2 value greater than 3 were marked with an '↑'.

Those laboratories that reported less than fifteen results were considered to have insufficient scope and were automatically classified into Category B, together with those reporting a false positive result. These laboratories have been categorised depending on the number of pesticides detected out of the total (seventeen). Laboratories reporting false negatives were marked with an asterisk. Laboratories having reported a false positive have been marked with a '+'.

The median value for each pesticide was used as the assigned value or "true" concentration, which was also used to calculate the z-scores. Results were required from the laboratories not only for the pesticides, as defined by the MRL definition, but also for all the individual components that are included in the MRL definition.

Overall, the results were very good with regard to the z-scores for each pesticide present in the test material. Most of the pesticides had only a few unacceptable z-scores. Therefore, laboratories generally achieved accurate results for the pesticides present in the test material - above 89 % in all the cases, being diphenylamine and spirodiclofen the ones with the lower percentage (89 %) of good results.

A comparison of the results for some pesticides present in last year's test material, such as thiabendazole, appear to show that laboratories have improved, as the number of "good" z-scores has increased from 83 % last year to 98 % this one.

Moreover, although the percentage of laboratories in Category A (55 %) is similar to last year´s (56 %), a comparison to the previous year percentages for laboratories in Category A classified as "good" shows an increase from 80 % last year to 92 % this year, and the percentage of "unsatisfactory" results within Category A decreased from 12 % last year to 6 % this one.

Participation in this year's European Proficiency Test 14 involved at least one laboratory from each Member State. Additionally, Iceland, Norway and Switzerland participated as EFTA countries. Non-European laboratories in Brazil, Egypt, Israel, Serbia, Turkey and Uruguay also participated (as in previous years) although this year, they were joined by Argentina, Chile, Croatia, India and Peru for the first time. These Non-EU laboratories, however, are official laboratories in their own countries. As laid down in Article 32 of Regulation (EC) N° 882/2004, one of the EURL's duties is to collaborate with laboratories in third countries that are responsible for analysing feed and food samples and to help them improve the quality of their analyses.

6. SUGGESTIONS FOR FUTURE WORK

The following suggestions were made by the Organiser and the Scientific Committee for EUPT-FV14.

As a result of the continuing trend for performance improvement, the stricter criteria applied to EUPT-FV-14 will be carried forward to next year. The aim is that laboratories continue to increase the scope of their methods so that they are able to fully enforce EU legislation.

The harmonised MRRL will be maintained for all pesticides. The Target Pesticide List will contain individual analytes that must be sought and reported. No MRL residue definition will be requested. Evaluation will be done on individual components. This will allow a better statistical treatment of the data to be undertaken, and easier traceability of any possible analytical problems encountered by the laboratories.

The NRL-OfL network will be strengthened further by providing additional information to the NRLs on the performance of all the official laboratories in their country. This information will then be passed on to the OfLs and also be displayed on the EURL website. This new measure will encourage more frequent communication and regular updates of information.

These changes are aimed at ensuring that, year on year, laboratories strive even more to increase the scope of their methods, improve their performance (both in terms of correctly detecting the pesticides present in the test material, and also accurately quantifying the concentrations present). It is recommended that laboratories should continue to evaluate and adopt new techniques/instrumentation that will help them to attain, or maintain, a Category A classification.

7. REFERENCES

1. N. Belmonte Valles, M. Retamal, M. Mezcua, A.R. Fernández-Alba. A sensitive and selective method for the determination of selected pesticides in fruit by gas chromatography/mass spectrometry with negative chemical ionization. J. Chromatogr. A 1264 (2012) 110– 116.

2. M. Thompson, S. L. R. Ellison, and R.Wood. The International Harmonized Protocol for the Proficiency Testing of Analytical Chemistry Laboratories. Pure Appl. Chem., 2006, 78 (1), 145–196.

3. P. Medina-Pastor, C. Rodriguez-Torreblanca, A. Andersson, A. R. Fernandez-Alba, European Commission proficiency tests for pesticide residues in fruits and vegetables, Trends in Analytical Chemistry, 2010, 29 (1), 70-83.

4. P. Medina Pastor, A. Valverde, T. Pihlström, S. Masselter, M. Gamón, M. Mezcua, C. Rodríguez Torreblanca, A. R. Fernández-Alba, Comparative Study of the Main Top-down Approaches for the Estimation of Measurement Uncertainty in Multiresidue Analysis of Pesticides in Fruits and Vegetables, J. Agric. Food Chem., 2011, 59 (14), 7609-7619.

5. C. H. Muller and S. Uhlig, Estimation of variance components with high breakdown points and high efficiency, Biometrijka, 2001, 88, 353-336.

6. P. Medina-Pastor, M. Mezcua, C. Rodríguez-Torreblanca, A. R. Fernández-Alba, Laboratory assessment by combined z-score values in proficiency tests: experience gained through the European Union proficiency tests for pesticide residues in fruits and vegetables, Anal. Bioanal. Chem., 2010, 397, 3061–3070.

8. ACKNOWLEDGEMENTS

The Organiser is most grateful to the European Commission for funding this European Proficiency Test FV-14.

The Organiser wishes to thank the members of the Quality Control Group and the Scientific Committee for their invaluable expert advice. Many thanks also to the Statistical Group for their cooperation.

The Organiser wishes to give a special thank-you to the University of Almeria for the use of their facilities.

APPENDIX 1. Homogeneity data.

Boscalid (mg/Kg)		Cadusafos (mg/Kg)		Cyprodinil (mg/Kg)		Diazinon (mg/Kg)	
Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 1	Replicate 2
0.158	0.171	0.066	0.089	0.208	0.245	0.051	0.054
0.171	0.193	0.079	0.081	0.248	0.256	0.055	0.061
0.193	0.186	0.080	0.072	0.218	0.258	0.052	0.059
0.175	0.170	0.077	0.084	0.233	0.223	0.055	0.058
0.186	0.189	0.079	0.078	0.260	0.226	0.058	0.054
0.206	0.163	0.075	0.092	0.262	0.231	0.059	0.067
0.198	0.201	0.074	0.119	0.211	0.224	0.061	0.081
0.158	0.165	0.086	0.067	0.221	0.228	0.061	0.047
0.146	0.159	0.089	0.082	0.221	0.202	0.063	0.055
0.178	0.165	0.070	0.069	0.219	0.206	0.052	0.053

Diphenylamine (mg/Kg)		Fludioxonil (mg/Kg)		Flufenoxuron (mg/Kg)		Folpet (mg/Kg)	
Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 1	Replicate 2
0.115	0.138	0.150	0.184	0.450	0.428	0.498	0.452
0.131	0.144	0.164	0.196	0.434	0.443	0.415	0.495
0.131	0.124	0.163	0.183	0.374	0.385	0.354	0.448
0.144	0.119	0.173	0.179	0.482	0.470	0.313	0.484
0.161	0.140	0.175	0.171	0.412	0.324	0.341	0.470
0.163	0.119	0.175	0.194	0.434	0.421	0.488	0.379
0.169	0.166	0.200	0.206	0.326	0.432	0.453	0.488
0.116	0.142	0.195	0.165	0.465	0.452	0.337	0.443
0.112	0.108	0.206	0.178	0.411	0.430	0.327	0.411
0.136	0.105	0.184	0.175	0.428	0.451	0.319	0.428

Indoxacarb (mg/Kg)		Iprodione (mg/Kg)		Methoxyfenozide (mg/Kg)		Phosmet (mg/Kg)	
Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 1	Replicate 2
0.075	0.093	0.256	0.312	0.140	0.134	0.068	0.081
0.016	0.095	0.280	0.317	0.157	0.139	0.075	0.086
0.113	0.102	0.288	0.298	0.151	0.142	0.074	0.081
0.106	0.092	0.295	0.305	0.131	0.135	0.079	0.081
0.101	0.102	0.296	0.294	0.156	0.152	0.081	0.071
0.104	0.105	0.304	0.325	0.163	0.148	0.084	0.054
0.113	0.113	0.315	0.362	0.128	0.134	0.085	0.116
0.105	0.097	0.318	0.276	0.119	0.144	0.086	0.058
0.105	0.087	0.335	0.301	0.137	0.137	0.089	0.069
0.093	0.101	0.312	0.351	0.159	0.131	0.061	0.066

APPENDIX 1. Homogeneity data.

Pyraclostrobin (mg/Kg)		Pyrimethanil (mg/Kg)		Spirodiclofen (mg/Kg)		Thiabendazole (mg/Kg)	
Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 1	Replicate 2
0.145	0.208	0.102	0.109	0.107	0.101	0.498	0.523
0.188	0.178	0.110	0.112	0.025	0.092	0.503	0.505
0.171	0.151	0.105	0.118	0.117	0.075	0.490	0.499
0.159	0.182	0.101	0.099	0.085	0.103	0.514	0.490
0.181	0.161	0.121	0.110	0.109	0.110	0.569	0.494
0.160	0.194	0.120	0.113	0.098	0.106	0.505	0.529
0.154	0.284	0.106	0.110	0.084	0.170	0.480	0.507
0.207	0.124	0.102	0.109	0.131	0.076	0.493	0.493
0.198	0.167	0.100	0.092	0.127	0.066	0.499	0.463
0.178	0.162	0.105	0.092	0.100	0.097	0.505	0.457

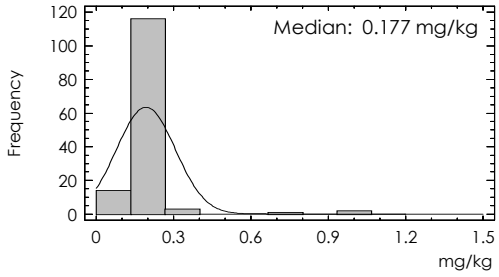
Thiacloprid (mg/Kg)		Triflumuron (mg/Kg)	
Replicate 1	Replicate 2	Replicate 1	Replicate 2
0.033	0.034	0.476	0.487
0.032	0.040	0.442	0.516
0.028	0.032	0.558	0.550
0.032	0.035	0.397	0.433
0.037	0.037	0.412	0.428
0.033	0.031	0.390	0.489
0.030	0.032	0.415	0.429
0.034	0.030	0.387	0.467
0.032	0.033	0.396	0.409
0.030	0.030	0.382	0.444

The sample numbers used for this test were: 004, 018, 062, 107, 138, 141, 166, 177, 206 and 215.

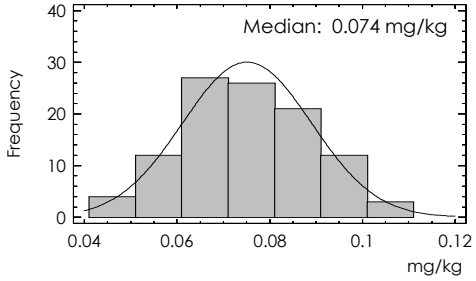
APPENDIX 2. Histograms of residue data for each pesticide from all the laboratories.

Results presented as histograms.

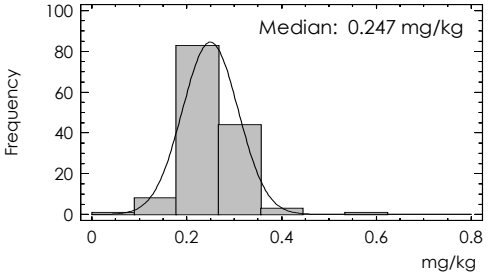
Boscalid



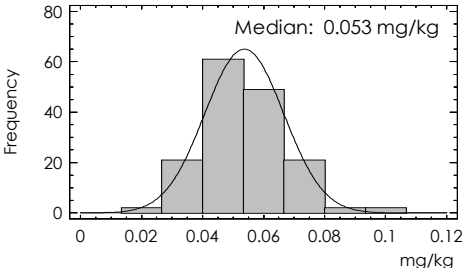
Cadusafos



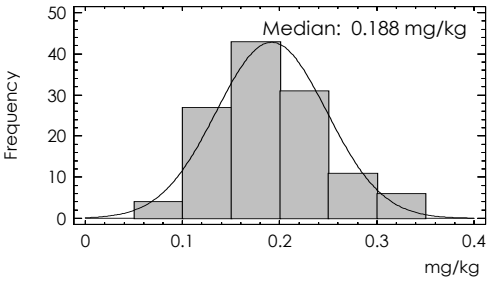
Cyprodinil



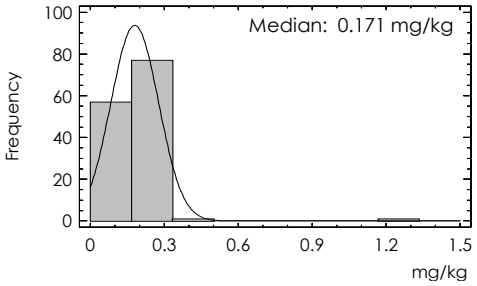
Diazinon



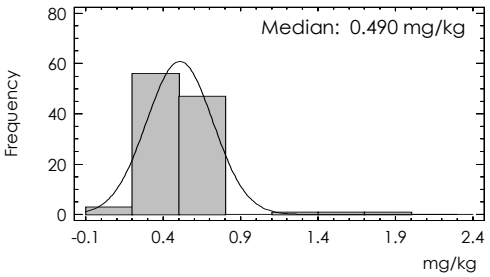
Diphenylamine



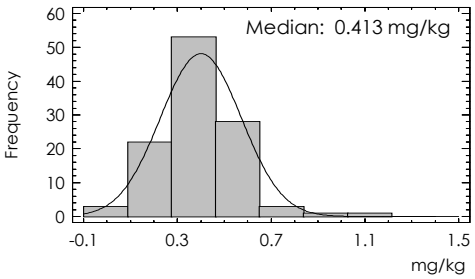
Fludioxonil



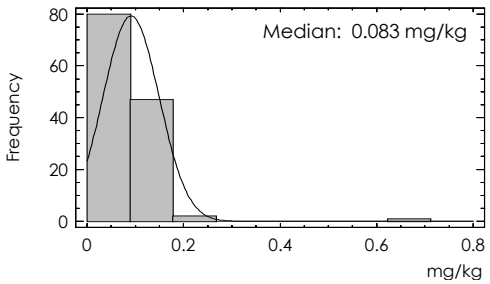
Flufenoxuron



Folpet

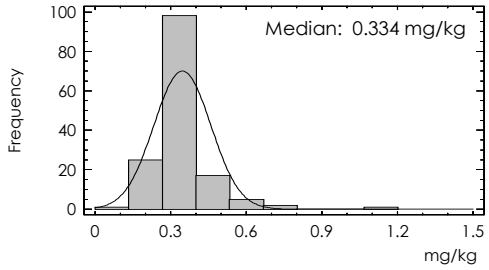


Indoxacarb

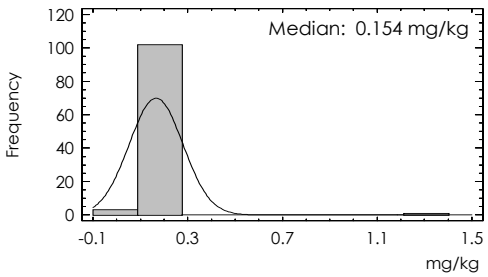


APPENDIX 2. Histograms of residue data for each pesticide from all the laboratories.

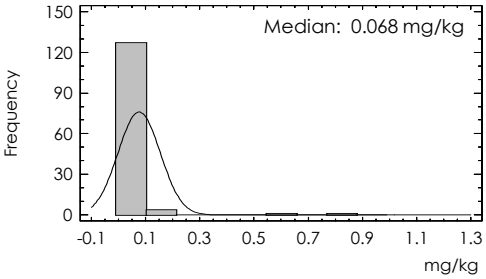
Iprodione



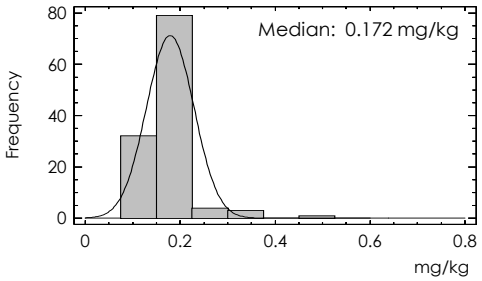
Methoxyfenozide



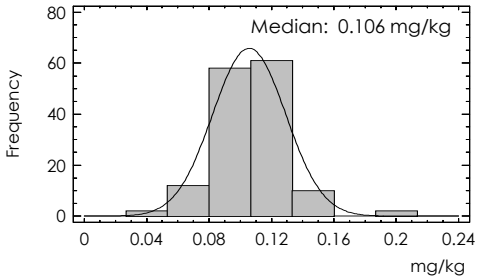
Phosmet



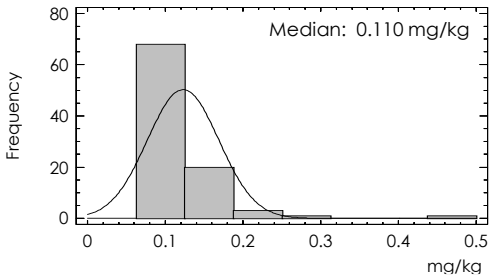
Pyraclostrobin



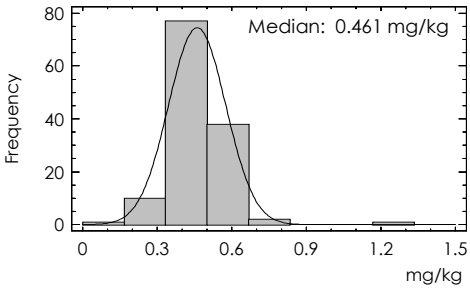
Pyrimethanil



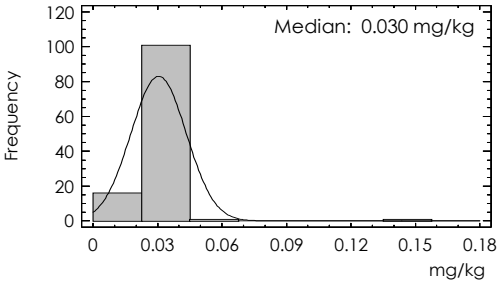
Spirodiclofen



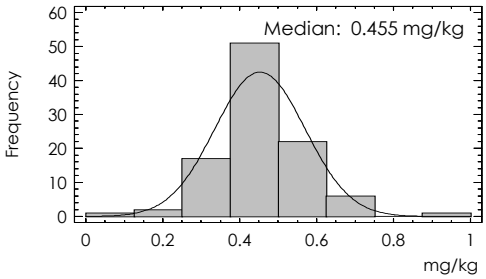
Thiabendazole



Thiacloprid



Triflumuron



APPENDIX 3. Results (mg/kg) and z-scores for FFP RSD (25 %).

Results given by the laboratories (mg/kg) and their calculated z-score value using FFP RSD 25 %

Lab Code	Boscalid	z-Score (FFP RSD 25%)	Cadusafos	z-Score (FFP RSD 25%)	Cyprodinil	z-Score (FFP RSD 25%)	Diazinon	z-Score (FFP RSD 25%)	Diphenylamine	z-Score (FFP RSD 25%)	Fludioxonil	z-Score (FFP RSD 25%)	Flufenoxuron	z-Score (FFP RSD 25%)	Folpet	z-Score (FFP RSD 25%)	Indoxacarb	z-Score (FFP RSD 25%)
MRRL	**0.01**		**0.006**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**	
Median (mg/kg)	**0.177**		**0.074**		**0.247**		**0.053**		**0.188**		**0.171**		**0.491**		**0.413**		**0.083**	
Lab001	0,211	0,8	0,080	0,3	0,222	-0,4	0,035	-1,4	0,154	-0,7	0,204	0,8	0,671	1,5	0,124	-2,8	0,097	0,7
Lab002	0,109	-1,5	0,050	-1,3	0,178	-1,1	0,038	-1,1	0,141	-1,0	0,126	-1,1	0,317	-1,4	0,304	-1,1	0,057	-1,3
Lab003	0,144	-0,7	0,067	-0,4	0,248	0,0	0,053	0,0	0,196	0,2	0,165	-0,1	0,564	0,6	0,572	1,5	0,080	-0,2
Lab004	0,174	-0,1	0,072	-0,1	0,268	0,3	0,047	-0,5	0,174	-0,3	0,150	-0,5	0,528	0,3	0,481	0,7	0,671	5,0
Lab005	0,170	-0,2	0,095	1,1	0,239	-0,1	0,051	-0,2	0,167	-0,4	0,175	0,1	0,633	1,2	0,432	0,2	0,076	-0,3
Lab006	0,150	-0,6	0,054	-1,1	0,246	0,0	0,055	0,2	0,197	0,2	0,152	-0,4	0,445	-0,4	0,421	0,1	0,076	-0,3
Lab007	0,190	0,3	NA		NA		0,028	-1,9	NA		0,120	-1,2	NA		0,090	-3,1	NA	
Lab008	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lab009	0,198	0,5	0,100	1,4	0,278	0,5	0,055	0,2	0,230	0,9	0,180	0,2	0,473	-0,1	0,469	0,5	0,078	-0,2
Lab010	0,191	0,3	0,072	-0,1	NA		0,038	-1,1	NA		NA		NA		0,436	0,2	0,105	1,1
Lab011	0,187	0,2	ND	-3,7	0,237	-0,2	0,049	-0,3	0,163	-0,5	0,171	0,0	0,510	0,2	0,309	-1,0	0,077	-0,3
Lab012	0,200	0,5	0,072	-0,1	0,300	0,9	0,069	1,2	0,220	0,7	0,170	0,0	NA		NA		0,110	1,3
Lab013	NA		NA		0,250	0,0	0,041	-0,9	NA		0,166	-0,1	NA		NA		NA	
Lab014	0,145	-0,7	0,061	-0,7	0,187	-1,0	0,037	-1,2	0,112	-1,6	0,123	-1,1	0,421	-0,6	0,323	-0,9	0,072	-0,5
Lab015	0,124	-1,2	0,055	-1,0	0,186	-1,0	0,038	-1,1	0,142	-1,0	0,141	-0,7	0,363	-1,0	0,328	-0,8	0,063	-1,0
Lab016	0,198	0,5	NA		0,226	-0,3	0,073	1,5	NA		0,202	0,7	NA		NA		NA	
Lab017	0,167	-0,2	0,071	-0,2	0,215	-0,5	0,053	0,0	0,165	-0,5	0,123	-1,1	0,428	-0,5	0,231	-1,8	0,071	-0,6
Lab018	0,194	0,4	0,089	0,8	0,257	0,2	0,063	0,8	0,252	1,4	0,209	0,9	0,514	0,2	0,545	1,3	0,073	-0,5
Lab019	0,161	-0,4	0,066	-0,4	0,255	0,1	0,072	1,4	0,326	2,9	0,155	-0,4	0,492	0,0	NA		0,073	-0,5
Lab020	0,144	-0,7	0,053	-1,1	0,175	-1,2	0,036	-1,3	NA		0,096	-1,8	0,298	-1,6	NA		0,049	-1,6
Lab021	0,158	-0,4	0,064	-0,5	0,232	-0,2	0,057	0,3	0,139	-1,0	0,174	0,1	0,465	-0,2	0,299	-1,1	0,089	0,3
Lab022	0,110	-1,5	NA		0,118	-2,1	0,037	-1,2	NA		0,230	1,4	NA		0,149	-2,6	NA	
Lab023	0,193	0,4	0,074	0,0	0,332	1,4	0,057	0,3	0,195	0,1	0,212	1,0	0,345	-1,2	0,306	-1,0	0,085	0,1
Lab024	0,185	0,2	0,070	-0,2	0,246	0,0	0,050	-0,2	0,210	0,5	0,186	0,4	0,443	-0,4	0,670	2,5	0,076	-0,3
Lab025	0,202	0,6	0,078	0,2	0,296	0,8	0,058	0,4	0,258	1,5	0,178	0,2	0,427	-0,5	0,441	0,3	0,075	-0,4
Lab026	0,152	-0,6	0,065	-0,5	0,250	0,0	0,052	-0,1	0,180	-0,2	0,191	0,5	0,481	-0,1	0,427	0,1	0,077	-0,3
Lab027	0,230	1,2	0,103	1,6	0,371	2,0	0,052	0,0	0,278	1,9	0,416	5,0	0,421	-0,6	0,080	-3,2	0,092	0,5
Lab028	0,118	-1,3	0,080	0,3	0,235	-0,2	0,049	-0,3	0,158	-0,6	0,106	-1,5	0,204	-2,3	0,428	0,1	0,077	-0,3
Lab029	0,141	-0,8	0,080	0,3	0,178	-1,1	0,051	-0,2	0,122	-1,4	0,129	-1,0	0,362	-1,1	NA		0,067	-0,8
Lab030	NA		NA		NA		0,062	0,7	NA		NA		NA		NA		NA	
Lab031	0,176	0,0	0,083	0,5	0,340	1,5	0,068	1,1	ND	-3,8	0,168	-0,1	NA		0,439	0,3	0,086	0,1
Lab032	0,237	1,4	0,073	-0,1	0,584	5,5	0,056	0,2	0,289	2,1	0,268	2,3	1,160	5,0	0,291	-1,2	0,117	1,6
Lab033	0,152	-0,6	0,055	-1,0	0,225	-0,4	0,055	0,2	0,149	-0,8	0,155	-0,4	0,398	-0,8	0,508	0,9	0,076	-0,3
Lab034	0,195	0,4	0,066	-0,4	0,258	0,2	0,054	0,1	0,159	-0,6	0,188	0,4	0,543	0,4	0,383	-0,3	0,082	0,0
Lab035	0,146	-0,7	0,068	-0,3	0,180	-1,1	0,039	-1,0	0,141	-1,0	0,135	-0,8	0,477	-0,1	0,425	0,1	0,066	-0,8
Lab036	0,178	0,0	0,065	-0,5	0,275	0,5	0,054	0,1	0,246	1,2	0,278	2,5	0,421	-0,6	ND	-3,9	0,105	1,1
Lab037	0,180	0,1	NA		0,230	-0,3	NA		NA		0,160	-0,3	0,150	-2,8	ND		0,090	0,3
Lab038	0,213	0,8	0,090	0,9	0,274	0,4	0,057	0,3	0,234	1,0	0,175	0,1	0,544	0,4	0,563	1,5	0,083	0,0
Lab039	0,182	0,1	0,081	0,4	0,272	0,4	0,056	0,2	0,225	0,8	0,189	0,4	0,511	0,2	0,530	1,1	0,090	0,4
Lab040	Participation Cancelled																	
Lab041	0,156	-0,5	0,068	-0,3	0,248	0,0	0,052	-0,1	NA		0,182	0,3	NA		0,427	0,1	0,087	0,2

APPENDIX 3. Results (mg/Kg) and z-scores for FFP RSD (25%).

Lab Code	Boscalid	z-Score (FFP RSD 25%)	Cadusafos	z-Score (FFP RSD 25%)	Cyprodinil	z-Score (FFP RSD 25%)	Diazinon	z-Score (FFP RSD 25%)	Diphenylamine	z-Score (FFP RSD 25%)	Fludioxonil	z-Score (FFP RSD 25%)	Flufenoxuron	z-Score (FFP RSD 25%)	Folpet	z-Score (FFP RSD 25%)	Indoxacarb	z-Score (FFP RSD 25%)
MRRL	**0.01**		**0.006**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**	
Median (mg/kg)	**0.177**		**0.074**		**0.247**		**0.053**		**0.188**		**0.171**		**0.491**		**0.413**		**0.083**	
Lab042	0,233	1,3	0,100	1,4	0,281	0,6	0,067	1,1	0,292	2,2	0,220	1,1	0,393	-0,8	0,243	-1,6	0,071	-0,6
Lab043	0,184	0,2	0,085	0,6	0,247	0,0	0,058	0,4	0,238	1,1	0,171	0,0	0,472	-0,2	NA		0,086	0,1
Lab044	NA		NA		0,271	0,4	0,040	-1,0	0,182	-0,1	0,143	-0,7	NA		NA		NA	
Lab045	0,208	0,7	0,065	-0,5	0,205	-0,7	0,045	-0,6	0,145	-0,9	0,116	-1,3	0,568	0,6	0,289	-1,2	0,098	0,7
Lab046	0,183	0,1	NA		0,251	0,1	0,064	0,8	0,193	0,1	0,171	0,0	NA		0,423	0,1	0,085	0,1
Lab047	0,168	-0,2	NA		0,259	0,2	0,047	-0,4	0,139	-1,0	0,164	-0,2	0,490	0,0	0,397	-0,2	0,072	-0,5
Lab048	0,210	0,7	0,090	0,9	0,295	0,8	0,072	1,4	0,236	1,0	0,206	0,8	0,706	1,8	0,531	1,1	0,095	0,6
Lab049	0,360	4,1	NA		0,240	-0,1	0,030	-1,7	NA		1,170	23,4	NA		NA		0,260	8,5
Lab050	0,206	0,7	0,093	1,0	0,282	0,6	0,066	0,9	0,220	0,7	0,176	0,1	0,564	0,6	0,468	0,5	0,097	0,7
Lab051	NA		NA		0,310	1,0	0,060	0,5	NA		0,170	0,0	NA		NA		0,080	-0,1
Lab052	0,210	0,7	0,086	0,6	0,353	1,7	0,062	0,7	0,160	-0,6	0,197	0,6	0,572	0,7	0,527	1,1	0,091	0,4
Lab053	0,276	2,2	0,092	1,0	0,289	0,7	0,069	1,2	0,348	3,4	0,201	0,7	0,756	2,2	0,027	-3,7	0,084	0,0
Lab054	0,139	-0,9	0,074	0,0	0,252	0,1	0,057	0,3	0,188	0,0	0,175	0,1	0,541	0,4	0,433	0,2	0,100	0,8
Lab055	0,205	0,6	0,095	1,1	0,341	1,5	0,065	0,9	0,238	1,1	0,209	0,9	0,538	0,4	0,415	0,0	0,108	1,2
Lab056	0,173	-0,1	0,071	-0,2	0,284	0,6	0,058	0,4	0,255	1,4	0,207	0,8	0,454	-0,3	0,360	-0,5	0,084	0,0
Lab057	NA		NA		0,180	-1,1	0,061	0,6	ND	-3,8	0,240	1,6	NA		NA		NA	
Lab058	0,190	0,3	0,080	0,3	0,242	-0,1	0,045	-0,6	0,185	-0,1	0,185	0,3	0,519	0,2	NA		0,081	-0,1
Lab059	0,192	0,3	0,082	0,4	0,263	0,3	0,061	0,6	0,197	0,2	0,192	0,5	0,574	0,7	0,403	-0,1	0,104	1,0
Lab060	0,182	0,1	0,084	0,5	0,238	-0,1	0,053	0,0	0,206	0,4	0,154	-0,4	0,539	0,4	0,487	0,7	0,087	0,2
Lab061	0,165	-0,3	0,058	-0,9	0,199	-0,8	0,039	-1,1	0,156	-0,7	0,180	0,2	0,460	-0,3	0,534	1,2	0,075	-0,4
Lab062	0,190	0,3	0,065	-0,5	0,220	-0,4	0,050	-0,2	0,180	-0,2	0,080	-2,1	0,530	0,3	0,300	-1,1	0,090	0,3
Lab063	0,199	0,5	0,081	0,4	0,297	0,8	0,060	0,5	0,264	1,6	0,193	0,5	0,503	0,1	0,535	1,2	0,091	0,4
Lab064	0,114	-1,4	ND	-3,7	0,088	-2,6	0,031	-1,6	NA		0,113	-1,4	0,351	-1,1	NA		0,062	-1,0
Lab065	0,147	-0,7	NA		NA		0,058	0,4	ND	-3,8	0,180	0,2	NA		0,397	-0,2	NA	
Lab066	0,205	0,6	0,071	-0,2	0,212	-0,6	0,048	-0,4	0,196	0,2	0,181	0,2	0,765	2,2	0,481	0,7	0,046	-1,8
Lab067	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lab068	0,210	0,7	NA		0,200	-0,8	0,048	-0,4	0,150	-0,8	0,160	-0,3	NA		NA		NA	
Lab069	NA		0,100	1,4	NA		0,070	1,3	NA		NA		0,059	-3,5	ND	-3,9	0,160	3,7
Lab070	0,180	0,1	0,080	0,3	0,260	0,2	0,055	0,2	0,160	-0,6	0,170	0,0	0,580	0,7	0,420	0,1	0,100	0,8
Lab071	0,209	0,7	0,095	1,1	0,262	0,2	0,064	0,8	0,330	3,0	0,215	1,0	0,531	0,3	0,510	0,9	0,092	0,4
Lab072	0,244	1,5	0,110	1,9	0,325	1,3	0,070	1,3	0,215	0,6	0,305	3,1	0,580	0,7	NA		0,096	0,6
Lab073	0,194	0,4	0,073	-0,1	0,281	0,6	0,055	0,2	0,175	-0,3	0,165	-0,1	0,585	0,8	NA		0,085	0,1
Lab074	ND	-3,8	ND	-3,7	0,289	0,7	0,047	-0,5	0,244	1,2	0,186	0,4	0,287	-1,7	ND	-3,9	ND	-3,5
Lab075	0,280	2,3	0,100	1,4	0,269	0,4	0,052	-0,1	0,210	0,5	0,231	1,4	0,565	0,6	0,465	0,5	0,098	0,7
Lab076	NA		0,064	-0,5	0,239	-0,1	0,021	-2,4	NA		NA		0,487	0,0	ND	-3,9	0,089	0,3
Lab077	0,144	-0,7	0,068	-0,3	0,227	-0,3	0,048	-0,4	0,139	-1,0	0,153	-0,4	0,476	-0,1	0,451	0,4	0,072	-0,5
Lab078	0,146	-0,7	0,058	-0,8	0,196	-0,8	0,041	-0,9	0,141	-1,0	0,126	-1,1	0,492	0,0	0,288	-1,2	0,074	-0,4
Lab079	NA		ND	-3,7	NA		0,051	-0,2	NA		NA		NA		NA		NA	
Lab080	0,195	0,4	NA		0,249	0,0	0,052	-0,1	0,211	0,5	0,230	1,4	0,461	-0,2	0,634	2,1	0,080	-0,1
Lab081	0,156	-0,5	0,077	0,2	0,274	0,4	0,052	-0,1	0,201	0,3	0,166	-0,1	0,421	-0,6	0,396	-0,2	0,073	-0,5
Lab082	NA		NA		0,194	-0,9	0,040	-1,0	NA		0,104	-1,6	NA		NA		NA	
Lab083	0,130	-1,1	0,057	-0,9	0,210	-0,6	0,044	-0,7	0,097	-1,9	0,140	-0,7	NA		0,240	-1,7	0,077	-0,3
Lab084	0,174	-0,1	0,080	0,3	0,224	-0,4	0,042	-0,8	0,146	-0,9	0,139	-0,7	0,469	-0,2	0,456	0,4	0,089	0,3
Lab085	0,157	-0,5	0,074	0,0	0,256	0,1	0,050	-0,2	0,138	-1,1	0,127	-1,0	0,556	0,5	0,441	0,3	0,062	-1,0

APPENDIX 3. Results (mg/kg) and z-scores for FFP RSD (25 %).

Lab Code	Boscalid	z-Score (FFP RSD 25%)	Cadusafos	z-Score (FFP RSD 25%)	Cyprodinil	z-Score (FFP RSD 25%)	Diazinon	z-Score (FFP RSD 25%)	Diphenylamine	z-Score (FFP RSD 25%)	Fludioxonil	z-Score (FFP RSD 25%)	Flufenoxuron	z-Score (FFP RSD 25%)	Folpet	z-Score (FFP RSD 25%)	Indoxacarb	z-Score (FFP RSD 25%)
MRRL	**0.01**		**0.006**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**	
Median (mg/kg)	**0.177**		**0.074**		**0.247**		**0.053**		**0.188**		**0.171**		**0.491**		**0.413**		**0.083**	
Lab086	0,109	-1,5	NA		0,178	-1,1	0,040	-1,0	0,151	-0,8	0,137	-0,8	0,068	-3,4	0,275	-1,3	0,255	5,0
Lab087	0,180	0,1	NA		0,316	1,1	0,055	0,2	0,220	0,7	0,187	0,4	0,487	0,0	0,505	0,9	0,092	0,4
Lab088	0,199	0,5	0,074	0,0	0,207	-0,6	0,045	-0,6	0,176	-0,3	0,134	-0,9	0,529	0,3	NA		0,081	-0,1
Lab089	NA		NA		NA		NA		NA		NA		NA		0,380	-0,3	NA	
Lab090	0,200	0,5	0,080	0,3	0,280	0,5	0,060	0,5	NA		0,170	0,0	NA		0,430	0,2	0,090	0,3
Lab091	0,162	-0,3	NA		0,240	-0,1	0,065	0,9	0,188	0,0	NA		NA		0,452	0,4	0,082	0,0
Lab092	0,177	0,0	0,078	0,2	0,259	0,2	0,058	0,4	0,195	0,1	0,135	-0,8	0,545	0,4	0,275	-1,3	0,072	-0,5
Lab093	0,146	-0,7	0,081	0,4	0,237	-0,2	0,058	0,4	0,211	0,5	0,174	0,1	0,609	1,0	0,893	4,6	0,098	0,7
Lab094	0,174	-0,1	0,073	-0,1	0,262	0,2	0,068	1,2	0,297	2,3	0,192	0,5	0,510	0,2	0,430	0,2	0,072	-0,5
Lab095	NA		NA		NA		0,045	-0,6	NA		NA		NA		0,245	-1,6	NA	
Lab096	0,174	-0,1	0,084	0,5	0,222	-0,4	0,051	-0,2	0,142	-1,0	0,201	0,7	0,525	0,3	NA		0,084	0,0
Lab097	0,239	1,4	0,090	0,9	0,276	0,5	0,078	1,9	0,238	1,1	0,180	0,2	0,652	1,3	0,431	0,2	0,123	1,9
Lab098	0,156	-0,5	NA		0,216	-0,5	0,045	-0,6	NA		0,111	-1,4	NA		NA		0,070	-0,6
Lab099	0,144	-0,7	0,058	-0,9	0,247	0,0	0,050	-0,2	0,214	0,6	0,159	-0,3	0,496	0,0	0,377	-0,3	0,082	0,0
Lab100	0,132	-1,0	0,069	-0,2	0,223	-0,4	0,049	-0,3	0,160	-0,6	0,157	-0,3	0,379	-0,9	0,517	1,0	0,072	-0,5
Lab101	0,170	-0,2	0,067	-0,4	0,226	-0,3	0,050	-0,3	0,196	0,2	0,168	-0,1	0,474	-0,1	0,258	-1,5	0,083	0,0
Lab102	0,225	1,1	0,092	1,0	0,198	-0,8	0,061	0,6	0,114	-1,6	0,151	-0,5	0,434	-0,5	NA		0,101	0,9
Lab103	0,206	0,7	NA		0,268	0,3	0,071	1,4	0,206	0,4	0,200	0,7	NA		NA		0,109	1,3
Lab104	NA		NA		0,176	-1,1	0,043	-0,8	0,135	-1,1	0,107	-1,5	NA		0,257	-1,5	NA	
Lab105	0,191	0,3	0,081	0,4	0,267	0,3	0,063	0,7	0,235	1,0	0,186	0,4	0,527	0,3	0,382	-0,3	0,088	0,2
Lab106	0,156	-0,5	NA		0,327	1,3	0,061	0,6	0,267	1,7	NA		NA		0,800	3,7	0,104	1,0
Lab107	0,179	0,0	0,083	0,5	0,242	-0,1	0,051	-0,2	0,171	-0,4	0,146	-0,6	0,471	-0,2	NA		0,080	-0,1
Lab108	0,176	0,0	0,055	-1,0	0,231	-0,3	0,053	0,0	0,120	-1,4	0,143	-0,7	0,725	1,9	NA		0,105	1,1
Lab109	0,145	-0,7	0,074	0,0	0,192	-0,9	0,059	0,4	0,211	0,5	0,159	-0,3	0,458	-0,3	0,639	2,2	0,077	-0,3
Lab110	0,201	0,5	0,092	1,0	0,296	0,8	0,048	-0,4	NA		NA		0,491	0,0	NA		0,082	0,0
Lab111	NA		NA		NA		0,080	2,0	NA		NA		NA		ND	-3,9	NA	
Lab112	0,252	1,7	0,098	1,3	0,326	1,3	0,061	0,6	0,248	1,3	0,219	1,1	0,754	2,1	0,252	-1,6	0,105	1,1
Lab113	0,181	0,1	0,073	-0,1	0,270	0,4	0,055	0,2	0,190	0,0	0,168	-0,1	NA		0,375	-0,4	0,090	0,3
Lab114	0,225	1,1	0,064	-0,5	0,303	0,9	0,086	2,5	0,312	2,6	ND	-3,8	0,596	0,9	ND	-3,9	0,101	0,9
Lab115	NA		NA		NA		0,050	-0,2	NA		0,157	-0,3	NA		NA		NA	
Lab116	0,176	0,0	NA		0,232	-0,2	0,050	-0,2	0,195	0,1	0,211	0,9	NA		0,413	0,0	0,092	0,4
Lab117	0,184	0,2	0,062	-0,7	0,295	0,8	0,045	-0,6	0,167	-0,4	0,183	0,3	0,415	-0,6	0,308	-1,0	0,101	0,9
Lab118	0,175	0,0	0,084	0,5	0,251	0,1	0,053	0,0	0,263	1,6	0,184	0,3	0,577	0,7	0,184	-2,2	0,078	-0,2
Lab119	0,994	18,5	0,081	0,4	0,240	-0,1	0,056	0,2	0,089	-2,1	0,126	-1,1	NA		0,199	-2,1	NA	
Lab120	0,156	-0,5	0,082	0,4	0,243	-0,1	0,058	0,4	0,182	-0,1	0,168	-0,1	0,390	-0,8	0,336	-0,7	0,111	1,3
Lab121	NA		NA		0,173	-1,2	0,024	-2,2	0,111	-1,6	NA		NA		0,030	-3,7	NA	
Lab122	NA		NA		NA		0,063	0,8	NA		NA		NA		0,588	1,7	0,098	0,7
Lab123	0,154	-0,5	0,065	-0,5	0,350	1,7	0,055	0,2	0,190	0,0	0,205	0,8	0,535	0,4	0,496	0,8	0,085	0,1
Lab124	0,189	0,3	NA		0,255	0,1	0,055	0,2	0,203	0,3	NA		NA		0,597	1,8	NA	
Lab125	0,203	0,6	NA		0,264	0,3	0,035	-1,4	0,219	0,7	0,116	-1,3	NA		NA		ND	-3,5
Lab126	0,183	0,1	0,085	0,6	0,294	0,8	0,068	1,1	0,262	1,6	0,175	0,1	0,440	-0,4	0,360	-0,5	0,085	0,1
Lab127	0,138	-0,9	0,078	0,2	0,175	-1,2	0,102	3,7	0,143	-1,0	0,146	-0,6	0,220	-2,2	0,140	-2,6	0,106	1,1
Lab128	0,155	-0,5	0,065	-0,5	0,233	-0,2	0,044	-0,7	0,159	-0,6	0,118	-1,2	0,503	0,1	0,370	-0,4	0,072	-0,6
Lab129	0,124	-1,2	NA		0,153	-1,5	0,029	-1,8	0,076	-2,4	0,176	0,1	0,302	-1,5	NA		0,072	-0,5

APPENDIX 3. Results (mg/Kg) and z-scores for FFP RSD (25%).

Lab Code	Boscalid	z-Score (FFP RSD 25%)	Cadusafos	z-Score (FFP RSD 25%)	Cyprodinil	z-Score (FFP RSD 25%)	Diazinon	z-Score (FFP RSD 25%)	Diphenylamine	z-Score (FFP RSD 25%)	Fludioxonil	z-Score (FFP RSD 25%)	Flufenoxuron	z-Score (FFP RSD 25%)	Folpet	z-Score (FFP RSD 25%)	Indoxacarb	z-Score (FFP RSD 25%)
MRRL	**0.01**		**0.006**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**	
Median (mg/kg)	**0.177**		**0.074**		**0.247**		**0.053**		**0.188**		**0.171**		**0.491**		**0.413**		**0.083**	
Lab130	No Results Submitted																	
Lab131	0,170	-0,2	0,074	0,0	0,200	-0,8	0,056	0,2	0,130	-1,2	0,130	-1,0	0,550	0,5	0,200	-2,1	0,090	0,3
Lab132	NA		NA		0,161	-1,4	0,045	-0,6	0,152	-0,8	NA		0,412	-0,6	NA		0,068	-0,7
Lab133	0,680	5,0	NA		0,271	0,4	0,050	-0,2	0,107	-1,7	0,181	0,2	NA		0,336	-0,7	0,051	-1,5
Lab134	0,186	0,2	0,075	0,1	0,267	0,3	0,070	1,3	0,209	0,4	0,178	0,2	0,435	-0,5	NA		0,076	-0,3
Lab135	0,170	-0,2	0,066	-0,4	0,269	0,4	0,049	-0,3	0,190	0,0	0,190	0,4	0,432	-0,5	0,340	-0,7	0,086	0,1
Lab136	1,000	5,0	NA		0,390	2,3	0,100	3,5	0,340	3,2	0,310	3,3	1,820	5,0	NA		ND	-3,5
Lab137	0,159	-0,4	NA		0,210	-0,6	0,048	-0,4	0,188	0,0	0,159	-0,3	0,589	0,8	0,222	-1,8	0,069	-0,7
Lab138	0,178	0,0	0,080	0,3	0,274	0,4	0,067	1,1	0,204	0,3	0,202	0,7	0,408	-0,7	NA		0,088	0,2
Lab139	NA		NA		NA		0,044	-0,7	NA		NA		NA		NA		NA	
Lab140	0,160	-0,4	ND	-3,7	0,140	-1,7	0,045	-0,6	0,170	-0,4	0,135	-0,8	ND	-3,9	0,425	0,1	0,033	-2,4
Lab141	0,200	0,5	NA		ND	-3,8	NA		ND	-3,8	0,100	-1,7	NA		NA		NA	
Lab142	0,124	-1,2	NA		NA		0,032	-1,6	0,107	-1,7	NA		NA		0,298	-1,1	NA	
Lab143	0,140	-0,8	NA		0,212	-0,6	0,035	-1,4	NA		NA		0,543	0,4	NA		0,077	-0,3
Lab144	0,210	0,7	0,110	1,9	0,330	1,3	0,077	1,8	0,130	-1,2	0,190	0,4	0,640	1,2	NA		0,097	0,7
Lab145	0,168	-0,2	0,062	-0,6	ND	-3,8	0,041	-0,9	NA		0,091	-1,9	0,361	-1,1	0,836	4,1	0,083	0,0
Lab146	0,214	0,8	0,087	0,7	0,335	1,4	0,084	2,3	0,245	1,2	0,203	0,7	0,511	0,2	0,586	1,7	0,096	0,6
Lab147	NA		NA		NA		0,036	-1,3	NA		NA		NA		0,202	-2,0	NA	
Lab148	0,170	-0,2	NA		0,240	-0,1	0,050	-0,2	0,220	0,7	0,170	0,0	NA		NA		0,070	-0,6
Lab149	0,160	-0,4	NA		0,230	-0,3	0,075	1,7	0,170	-0,4	0,240	1,6	0,460	-0,3	0,240	-1,7	0,100	0,8
Lab150	0,094	-1,9	NA		0,228	-0,3	0,044	-0,7	NA		0,146	-0,6	NA		0,103	-3,0	NA	
Lab151	0,187	0,2	0,066	-0,4	0,382	2,2	0,039	-1,1	0,164	-0,5	0,224	1,2	0,376	-0,9	0,458	0,4	0,063	-1,0
Lab152	NA		NA		ND	-3,8	NA		NA		NA		NA		1,204	5,0	NA	
Lab153	NA		NA		NA		0,052	-0,1	NA		0,171	0,0	NA		NA		0,054	-1,4
Lab154	0,110	-1,5	NA		0,180	-1,1	0,058	0,4	NA		NA		NA		0,540	1,2	0,056	-1,3
Lab155	0,147	-0,7	0,065	-0,5	0,226	-0,3	0,054	0,1	0,112	-1,6	0,189	0,4	0,408	-0,7	0,513	1,0	0,056	-1,3
Lab156	0,161	-0,4	0,066	-0,4	0,235	-0,2	0,047	-0,5	0,184	-0,1	0,184	0,3	NA		0,410	0,0	0,077	-0,3
Lab157	0,195	0,4	0,046	-1,5	0,266	0,3	0,053	0,0	0,227	0,8	0,143	-0,7	1,581	5,0	0,549	1,3	0,056	-1,3
Lab158	NA		NA		NA		0,067	1,1	0,341	3,3	NA		NA		0,351	-0,6	NA	
Lab159	0,171	-0,1	0,059	-0,8	0,207	-0,6	0,043	-0,7	NA		0,161	-0,2	NA		NA		0,103	1,0
Lab160	No Results Submitted																	
Lab161	0,141	-0,8	0,056	-1,0	0,179	-1,1	0,055	0,2	0,129	-1,3	0,143	-0,7	0,547	0,5	0,275	-1,3	0,066	-0,8
Lab162	0,234	1,3	0,045	-1,6	0,344	1,6	0,075	1,7	0,084	-2,2	0,258	2,0	0,349	-1,2	0,609	1,9	0,137	2,6
Lab163	NA		NA		NA		0,067	1,1	NA		NA		NA		NA		NA	
Lab164	Participation Cancelled																	
Lab165	0,130	-1,1	NA		0,180	-1,1	0,050	-0,2	0,140	-1,0	0,140	-0,7	0,420	-0,6	0,250	-1,6	0,080	-0,1
Lab166	NA		0,082	0,4	NA		0,061	0,6	NA		NA		NA		NA		NA	
Lab167	0,100	-1,7	0,051	-1,2	0,211	-0,6	0,051	-0,2	0,180	-0,2	0,190	0,4	0,464	-0,2	0,328	-0,8	0,080	-0,1
Lab168	NA		NA		NA		0,049	-0,3	NA		NA		NA		NA		NA	
Lab169	NA		NA		NA		NA		NA		NA		NA		NA		NA	

APPENDIX 3. Results (mg/kg) and z-scores for FFP RSD (25 %).

Lab Code	Iprodione	z-Score (FFP RSD 25%)	Methoxyfenozide	z-Score (FFP RSD 25%)	Phosmet	z-Score (FFP RSD 25%)	Pyraclostrobin	z-Score (FFP RSD 25%)	Pyrimethanil	z-Score (FFP RSD 25%)	Spirodiclofen	z-Score (FFP RSD 25%)	Thiabendazole	z-Score (FFP RSD 25%)	Triflumuron	z-Score (FFP RSD 25%)
MRRL	**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**	
Median (mg/kg)	**0.334**		**0.154**		**0.068**		**0.172**		**0.107**		**0.111**		**0.461**		**0.455**	
Lab001	0,254	-1,0	0,153	0,0	0,083	0,9	0,195	0,5	0,084	-0,9	0,167	2,0	0,387	-0,6	0,385	-0,6
Lab002	0,207	-1,5	0,157	0,1	0,048	-1,2	0,118	-1,3	0,075	-1,2	0,076	-1,3	0,354	-0,9	0,301	-1,4
Lab003	0,345	0,1	0,177	0,6	0,061	-0,4	0,170	0,0	0,104	-0,1	0,100	-0,4	0,564	0,9	0,490	0,3
Lab004	0,325	-0,1	0,158	0,1	0,062	-0,4	0,180	0,2	0,107	0,0	0,125	0,5	0,518	0,5	0,504	0,4
Lab005	0,342	0,1	0,149	-0,1	0,064	-0,2	0,215	1,0	0,120	0,5	0,105	-0,2	0,414	-0,4	0,399	-0,5
Lab006	0,316	-0,2	0,083	-1,8	0,063	-0,3	0,156	-0,4	0,111	0,1	0,108	-0,1	0,493	0,3	0,384	-0,6
Lab007	0,540	2,5	NA		NA		ND	-3,8	0,120	0,5	NA		0,360	-0,9	ND	-3,9
Lab008	NA		NA		NA		NA		NA		NA		NA		NA	
Lab009	0,376	0,5	0,170	0,4	0,059	-0,5	0,171	0,0	0,109	0,1	0,130	0,7	0,461	0,0	0,434	-0,2
Lab010	0,469	1,6	NA		0,029	-2,3	NA		NA		NA		NA		NA	
Lab011	0,387	0,6	0,154	0,0	0,078	0,6	0,204	0,7	0,102	-0,2	0,140	1,0	0,567	0,9	0,440	-0,1
Lab012	0,350	0,2	0,190	0,9	0,070	0,1	0,220	1,1	0,110	0,1	0,110	0,0	0,560	0,9	0,500	0,4
Lab013	0,290	-0,5	NA		NA		NA		0,095	-0,4	NA		NA		NA	
Lab014	0,267	-0,8	0,140	-0,4	0,038	-1,8	0,141	-0,7	0,091	-0,6	0,097	-0,5	0,400	-0,5	0,336	-1,0
Lab015	0,260	-0,9	0,132	-0,6	0,053	-0,9	0,127	-1,0	0,079	-1,0	0,092	-0,7	0,408	-0,5	0,372	-0,7
Lab016	0,443	1,3	NA		0,081	0,8	0,127	-1,0	0,117	0,4	NA		0,448	-0,1	NA	
Lab017	0,296	-0,5	0,147	-0,2	0,047	-1,2	0,127	-1,0	0,098	-0,3	0,117	0,2	0,487	0,2	0,431	-0,2
Lab018	0,426	1,1	0,156	0,1	0,082	0,8	0,185	0,3	0,113	0,2	0,116	0,2	0,402	-0,5	0,516	0,5
Lab019	0,389	0,7	0,154	0,0	0,079	0,6	0,158	-0,3	0,115	0,3	0,128	0,6	0,469	0,1	0,436	-0,2
Lab020	0,235	-1,2	0,150	-0,1	0,047	-1,2	NA		0,069	-1,4	NA		0,390	-0,6	0,315	-1,2
Lab021	0,394	0,7	0,161	0,2	0,068	0,0	0,146	-0,6	0,099	-0,3	0,105	-0,2	0,413	-0,4	0,385	-0,6
Lab022	0,248	-1,0	NA		0,040	-1,7	NA		0,045	-2,3	NA		NA		NA	
Lab023	0,318	-0,2	0,149	-0,1	0,069	0,1	0,172	0,0	0,142	1,3	0,105	-0,2	0,512	0,4	0,455	0,0
Lab024	0,325	-0,1	0,163	0,2	0,067	-0,1	0,165	-0,2	0,102	-0,2	0,100	-0,4	0,488	0,2	0,402	-0,5
Lab025	0,349	0,2	0,179	0,6	0,072	0,2	0,158	-0,3	0,101	-0,2	0,121	0,4	0,426	-0,3	0,399	-0,5
Lab026	0,331	0,0	0,205	1,3	0,078	0,6	0,182	0,2	0,108	0,0	0,103	-0,3	0,511	0,4	0,489	0,3
Lab027	0,312	-0,3	ND	-3,7	ND	-3,4	0,261	2,1	0,158	1,9	0,176	2,3	0,414	-0,4	0,930	4,2
Lab028	0,362	0,3	0,198	1,1	0,085	1,0	0,229	1,3	0,093	-0,5	0,123	0,4	0,517	0,5	0,484	0,3
Lab029	0,247	-1,0	0,154	0,0	0,041	-1,6	0,127	-1,0	0,090	-0,6	NA		0,288	-1,5	0,310	-1,3
Lab030	NA		NA		NA		NA		0,089	-0,7	NA		NA		NA	
Lab031	0,251	-1,0	NA		0,065	-0,2	NA		0,188	3,0	NA		0,464	0,0	NA	
Lab032	0,351	0,2	0,212	1,5	0,053	-0,9	0,306	3,1	0,203	3,6	ND	-3,6	0,432	-0,3	0,704	2,2
Lab033	0,358	0,3	0,131	-0,6	0,058	-0,6	0,148	-0,6	0,103	-0,1	0,107	-0,1	0,481	0,2	0,435	-0,2
Lab034	0,343	0,1	0,135	-0,5	0,070	0,1	0,130	-1,0	0,115	0,3	0,110	0,0	0,467	0,1	0,628	1,5
Lab035	0,264	-0,8	0,148	-0,2	0,053	-0,9	0,143	-0,7	0,082	-0,9	0,092	-0,7	0,367	-0,8	0,428	-0,2
Lab036	0,273	-0,7	0,119	-0,9	0,083	0,9	0,145	-0,6	0,120	0,5	0,110	0,0	1,220	6,6	0,405	-0,4
Lab037	ND		0,150	-0,1	0,050	-1,1	0,090	-1,9	0,130	0,9	0,120	0,3	NA		0,120	-2,9
Lab038	0,487	1,8	0,140	-0,4	0,091	1,4	0,201	0,7	0,107	0,0	0,110	0,0	0,532	0,6	0,749	2,6
Lab039	0,376	0,5	0,154	0,0	0,072	0,2	0,189	0,4	0,120	0,5	0,114	0,1	0,494	0,3	0,458	0,0
Lab040	Participation Cancelled															
Lab041	0,293	-0,5	NA		0,056	-0,7	0,172	0,0	0,105	-0,1	NA		0,442	-0,2	NA	
Lab042	0,334	0,0	0,123	-0,8	0,035	-2,0	0,145	-0,6	0,117	0,4	0,097	-0,5	0,342	-1,0	0,357	-0,9
Lab043	0,343	0,1	0,164	0,3	0,072	0,2	0,189	0,4	0,110	0,1	0,137	0,9	0,395	-0,6	0,458	0,0

APPENDIX 3. Results (mg/Kg) and z-scores for FFP RSD (25%).

Lab Code	Iprodione	z-Score (FFP RSD 25%)	Methoxyfenozide	z-Score (FFP RSD 25%)	Phosmet	z-Score (FFP RSD 25%)	Pyraclostrobin	z-Score (FFP RSD 25%)	Pyrimethanil	z-Score (FFP RSD 25%)	Spirodiclofen	z-Score (FFP RSD 25%)	Thiabendazole	z-Score (FFP RSD 25%)	Triflumuron	z-Score (FFP RSD 25%)
MRRL	**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**	
Median (mg/kg)	**0.334**		**0.154**		**0.068**		**0.172**		**0.107**		**0.111**		**0.461**		**0.455**	
Lab044	0,324	-0,1	NA		0,123	3,2	NA		0,115	0,3	NA		NA		NA	
Lab045	0,233	-1,2	0,226	1,9	0,036	-1,9	0,190	0,4	0,081	-1,0	0,123	0,4	0,440	-0,2	0,455	0,0
Lab046	0,341	0,1	NA		0,076	0,5	0,163	-0,2	0,111	0,1	NA		0,519	0,5	NA	
Lab047	0,264	-0,8	0,131	-0,6	NA		0,147	-0,6	0,104	-0,1	0,104	-0,3	0,474	0,1	0,591	1,2
Lab048	0,410	0,9	0,186	0,8	0,075	0,4	0,209	0,9	0,123	0,6	0,136	0,9	0,566	0,9	0,499	0,4
Lab049	NA		NA		ND	-3,4	NA		0,160	2,0	NA		NA		NA	
Lab050	0,366	0,4	0,172	0,5	0,081	0,8	0,212	0,9	0,113	0,2	0,142	1,1	0,495	0,3	0,509	0,5
Lab051	0,360	0,3	NA		NA		NA		0,090	-0,6	NA		0,520	0,5	0,290	-1,5
Lab052	0,457	1,5	0,188	0,9	0,088	1,2	0,198	0,6	0,132	0,9	0,144	1,2	0,526	0,6	0,407	-0,4
Lab053	0,280	-0,6	0,134	-0,5	0,063	-0,3	0,253	1,9	0,114	0,3	0,099	-0,4	NA		0,616	1,4
Lab054	0,369	0,4	0,157	0,1	0,058	-0,6	0,200	0,7	0,107	0,0	0,112	0,0	0,513	0,5	0,554	0,9
Lab055	0,366	0,4	0,151	-0,1	0,087	1,1	0,210	0,9	0,143	1,3	0,134	0,8	0,259	-1,8	0,357	-0,9
Lab056	0,254	-1,0	0,140	-0,4	0,055	-0,8	0,156	-0,4	0,113	0,2	0,098	-0,5	0,440	-0,2	0,436	-0,2
Lab057	0,310	-0,3	NA		NA		NA		0,099	-0,3	NA		NA		NA	
Lab058	0,318	-0,2	0,157	0,1	0,067	-0,1	0,183	0,3	0,103	-0,1	0,125	0,5	0,417	-0,4	0,543	0,8
Lab059	0,374	0,5	0,196	1,1	0,073	0,3	0,201	0,7	0,107	0,0	0,110	0,0	0,525	0,6	0,511	0,5
Lab060	0,333	0,0	0,160	0,2	0,068	0,0	0,175	0,1	0,099	-0,3	0,113	0,1	0,466	0,0	0,445	-0,1
Lab061	0,281	-0,6	0,169	0,4	0,052	-0,9	0,153	-0,4	0,076	-1,2	0,113	0,1	0,367	-0,8	0,396	-0,5
Lab062	0,300	-0,4	0,190	0,9	0,090	1,3	0,180	0,2	ND	-3,6	0,100	-0,4	0,680	1,9	0,580	1,1
Lab063	0,407	0,9	0,159	0,1	0,773	5,0	0,203	0,7	0,109	0,1	0,123	0,4	0,588	1,1	0,449	-0,1
Lab064	0,192	-1,7	NA		NA		NA		0,039	-2,5	NA		0,338	-1,1	NA	
Lab065	0,348	0,2	NA		0,068	0,0	NA		0,113	0,2	NA		NA		NA	
Lab066	0,360	0,3	0,260	2,8	0,055	-0,8	0,123	-1,1	0,113	0,2	0,101	-0,4	0,387	-0,6	0,414	-0,4
Lab067	NA		NA		NA		NA		NA		NA		NA		NA	
Lab068	0,280	-0,6	NA		0,073	0,3	NA		0,070	-1,4	NA		0,400	-0,5	NA	
Lab069	0,420	1,0	0,140	-0,4	ND	-3,4	0,150	-0,5	0,090	-0,6	NA		ND	-3,9	NA	
Lab070	0,250	-1,0	0,180	0,7	0,070	0,1	0,180	0,2	0,110	0,1	0,190	2,8	0,550	0,8	0,530	0,7
Lab071	0,421	1,0	0,136	-0,5	0,086	1,1	0,203	0,7	0,127	0,7	0,129	0,6	0,474	0,1	0,539	0,7
Lab072	0,440	1,3	0,165	0,3	0,082	0,8	0,184	0,3	0,130	0,9	0,132	0,8	0,560	0,9	0,667	1,9
Lab073	0,367	0,4	0,153	0,0	0,087	1,1	0,194	0,5	0,113	0,2	NA		0,522	0,5	NA	
Lab074	0,283	-0,6	NA		0,064	-0,2	NA		0,137	1,1	ND	-3,6	0,272	-1,6	NA	
Lab075	0,345	0,1	0,203	1,3	0,032	-2,1	0,209	0,9	0,135	1,0	0,121	0,4	0,606	1,3	0,491	0,3
Lab076	0,405	0,9	0,148	-0,2	NA		0,142	-0,7	0,110	0,1	NA		0,411	-0,4	0,393	-0,5
Lab077	0,309	-0,3	0,147	-0,2	0,055	-0,8	0,140	-0,7	0,088	-0,7	0,091	-0,7	0,401	-0,5	0,390	-0,6
Lab078	0,269	-0,8	0,152	-0,1	0,042	-1,5	0,146	-0,6	0,083	-0,9	0,103	-0,3	0,432	-0,3	0,435	-0,2
Lab079	0,371	0,4	NA		0,062	-0,4	NA		NA		NA		NA		NA	
Lab080	0,365	0,4	0,168	0,4	0,062	-0,4	NA		0,096	-0,4	NA		0,461	0,0	NA	
Lab081	0,324	-0,1	0,146	-0,2	0,069	0,1	0,151	-0,5	0,117	0,4	0,110	0,0	0,517	0,5	0,341	-1,0
Lab082	0,191	-1,7	NA		NA		NA		0,082	-0,9	NA		0,274	-1,6	NA	
Lab083	0,300	-0,4	NA		0,042	-1,5	0,220	1,1	0,088	-0,7	0,073	-1,4	0,590	1,1	NA	
Lab084	0,295	-0,5	0,155	0,0	0,058	-0,6	0,186	0,3	0,092	-0,6	0,114	0,1	0,495	0,3	0,504	0,4
Lab085	0,502	2,0	0,122	-0,8	0,065	-0,2	0,201	0,7	0,104	-0,1	0,090	-0,8	0,396	-0,6	0,565	1,0
Lab086	0,214	-1,4	1,280	5,0	0,112	2,6	0,187	0,3	0,082	-0,9	0,155	1,6	0,393	-0,6	0,136	-2,8
Lab087	0,371	0,4	0,162	0,2	0,080	0,7	0,169	-0,1	0,133	1,0	0,110	0,0	0,390	-0,6	NA	

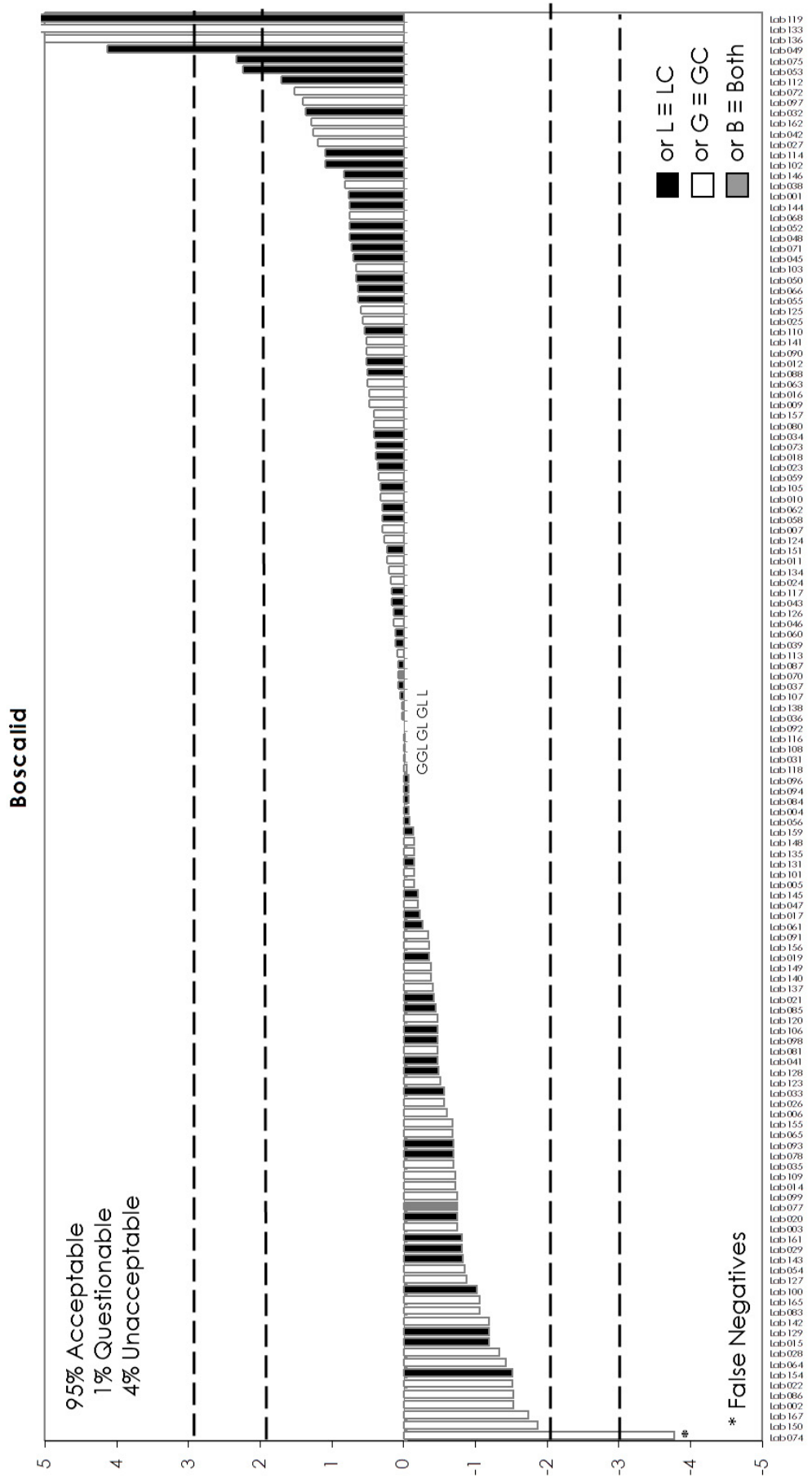
APPENDIX 3. Results (mg/kg) and z-scores for FFP RSD (25 %).

Lab Code	Iprodione	z-Score (FFP RSD 25%)	Methoxyfenozide	z-Score (FFP RSD 25%)	Phosmet	z-Score (FFP RSD 25%)	Pyraclostrobin	z-Score (FFP RSD 25%)	Pyrimethanil	z-Score (FFP RSD 25%)	Spirodiclofen	z-Score (FFP RSD 25%)	Thiabendazole	z-Score (FFP RSD 25%)	Triflumuron	z-Score (FFP RSD 25%)
MRRL	**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**	
Median (mg/kg)	**0.334**		**0.154**		**0.068**		**0.172**		**0.107**		**0.111**		**0.461**		**0.455**	
Lab088	0,229	-1,3	0,098	-1,5	0,041	-1,6	0,197	0,6	0,098	-0,3	NA		0,462	0,0	0,503	0,4
Lab089	0,410	0,9	NA		NA		NA		NA		NA		NA		NA	
Lab090	0,350	0,2	NA		0,090	1,3	NA		0,110	0,1	NA		NA		NA	
Lab091	0,352	0,2	NA		0,070	0,1	NA		0,106	0,0	NA		NA		NA	
Lab092	0,312	-0,3	0,104	-1,3	0,050	-1,1	0,168	-0,1	0,105	-0,1	0,103	-0,3	0,443	-0,2	0,549	0,8
Lab093	0,233	-1,2	0,167	0,3	0,088	1,2	0,172	0,0	0,081	-1,0	0,165	1,9	0,380	-0,7	0,449	-0,1
Lab094	0,578	2,9	0,135	-0,5	0,067	0,0	0,153	-0,4	0,099	-0,3	0,114	0,1	0,432	-0,3	0,469	0,1
Lab095	NA		NA		0,073	0,3	NA		NA		NA		NA		NA	
Lab096	0,316	-0,2	0,147	-0,2	0,085	1,0	0,170	0,0	0,111	0,1	0,100	-0,4	0,318	-1,2	0,381	-0,7
Lab097	0,245	-1,1	0,143	-0,3	0,084	0,9	0,213	1,0	0,125	0,7	0,110	0,0	0,517	0,5	0,511	0,5
Lab098	0,386	0,6	NA		NA		NA		NA		NA		NA		NA	
Lab099	0,331	0,0	0,156	0,1	0,075	0,4	0,185	0,3	0,100	-0,3	0,106	-0,2	0,545	0,7	0,473	0,2
Lab100	0,345	0,1	0,130	-0,6	0,064	-0,2	0,133	-0,9	0,101	-0,2	0,105	-0,2	0,389	-0,6	0,312	-1,3
Lab101	0,348	0,2	0,171	0,4	0,068	0,0	0,156	-0,4	0,095	-0,5	0,149	1,4	0,470	0,1	0,374	-0,7
Lab102	0,407	0,9	0,188	0,9	0,085	1,0	0,184	0,3	0,130	0,9	0,115	0,1	0,495	0,3	0,508	0,5
Lab103	0,378	0,5	NA		NA		0,162	-0,2	0,107	0,0	NA		NA		NA	
Lab104	0,189	-1,7	NA		0,043	-1,5	NA		0,073	-1,3	NA		NA		NA	
Lab105	0,403	0,8	0,171	0,4	0,076	0,5	0,192	0,5	0,109	0,1	0,137	0,9	0,534	0,6	0,507	0,5
Lab106	0,377	0,5	NA		0,072	0,2	NA		0,112	0,2	NA		0,462	0,0	NA	
Lab107	0,333	0,0	0,149	-0,1	0,069	0,1	0,171	0,0	0,109	0,1	0,109	-0,1	0,594	1,2	0,592	1,2
Lab108	0,280	-0,6	NA		0,057	-0,7	0,172	0,0	0,100	-0,3	NA		0,455	-0,1	0,503	0,4
Lab109	0,362	0,3	0,154	0,0	0,063	-0,3	0,157	-0,3	0,084	-0,8	0,083	-1,0	0,416	-0,4	0,483	0,2
Lab110	NA		0,190	0,9	0,112	2,6	0,122	-1,2	0,115	0,3	0,093	-0,6	0,483	0,2	NA	
Lab111	0,332	0,0	NA		0,086	1,1	NA		NA		NA		NA		NA	
Lab112	0,416	1,0	0,197	1,1	0,084	0,9	0,236	1,5	0,130	0,9	0,163	1,9	0,533	0,6	0,636	1,6
Lab113	0,330	0,0	0,151	-0,1	0,073	0,3	0,183	0,3	0,116	0,3	0,257	5,3	0,380	-0,7	NA	
Lab114	0,332	0,0	NA		0,078	0,6	0,220	1,1	0,109	0,1	NA		0,549	0,8	ND	-3,9
Lab115	0,321	-0,2	NA		ND	-3,4	NA		0,090	-0,6	NA		0,410	-0,4	NA	
Lab116	0,344	0,1	NA		0,068	0,0	0,185	0,3	0,103	-0,1	NA		NA		NA	
Lab117	0,263	-0,9	0,167	0,3	0,049	-1,1	0,138	-0,8	0,121	0,5	0,092	-0,7	0,447	-0,1	0,403	-0,5
Lab118	0,372	0,5	0,123	-0,8	0,072	0,2	0,219	1,1	0,099	-0,3	0,120	0,3	0,120	-3,0	0,267	-1,7
Lab119	0,388	0,6	NA		0,075	0,4	0,360	4,4	0,089	-0,7	NA		NA		NA	
Lab120	0,299	-0,4	0,192	1,0	0,049	-1,1	0,161	-0,3	0,100	-0,3	0,092	-0,7	0,577	1,0	0,476	0,2
Lab121	ND	-3,9	NA		ND	-3,4	NA		0,065	-1,6	NA		0,241	-1,9	NA	
Lab122	NA		NA		0,066	-0,1	NA		NA		NA		NA		NA	
Lab123	0,383	0,6	0,141	-0,3	0,065	-0,2	0,200	0,7	0,140	1,2	0,111	0,0	0,510	0,4	0,450	0,0
Lab124	0,398	0,8	NA		NA		NA		NA		NA		0,402	-0,5	NA	
Lab125	0,333	0,0	NA		NA		NA		0,110	0,1	NA		NA		NA	
Lab126	0,406	0,9	0,170	0,4	0,067	-0,1	0,207	0,8	0,130	0,9	0,143	1,2	0,603	1,2	0,498	0,4
Lab127	0,296	-0,5	0,083	-1,8	0,046	-1,3	0,112	-1,4	0,072	-1,3	0,250	5,0	0,380	-0,7	0,500	0,4
Lab128	0,348	0,2	0,160	0,2	0,050	-1,1	0,135	-0,9	0,091	-0,6	0,102	-0,3	0,386	-0,7	0,342	-1,0
Lab129	0,290	-0,5	0,055	-2,6	NA		0,152	-0,5	0,084	-0,9	0,097	-0,5	0,306	-1,3	NA	
Lab130	No Results Submitted															
Lab131	0,280	-0,6	0,140	-0,4	0,055	-0,8	0,150	-0,5	0,088	-0,7	0,100	-0,4	0,400	-0,5	0,500	0,4

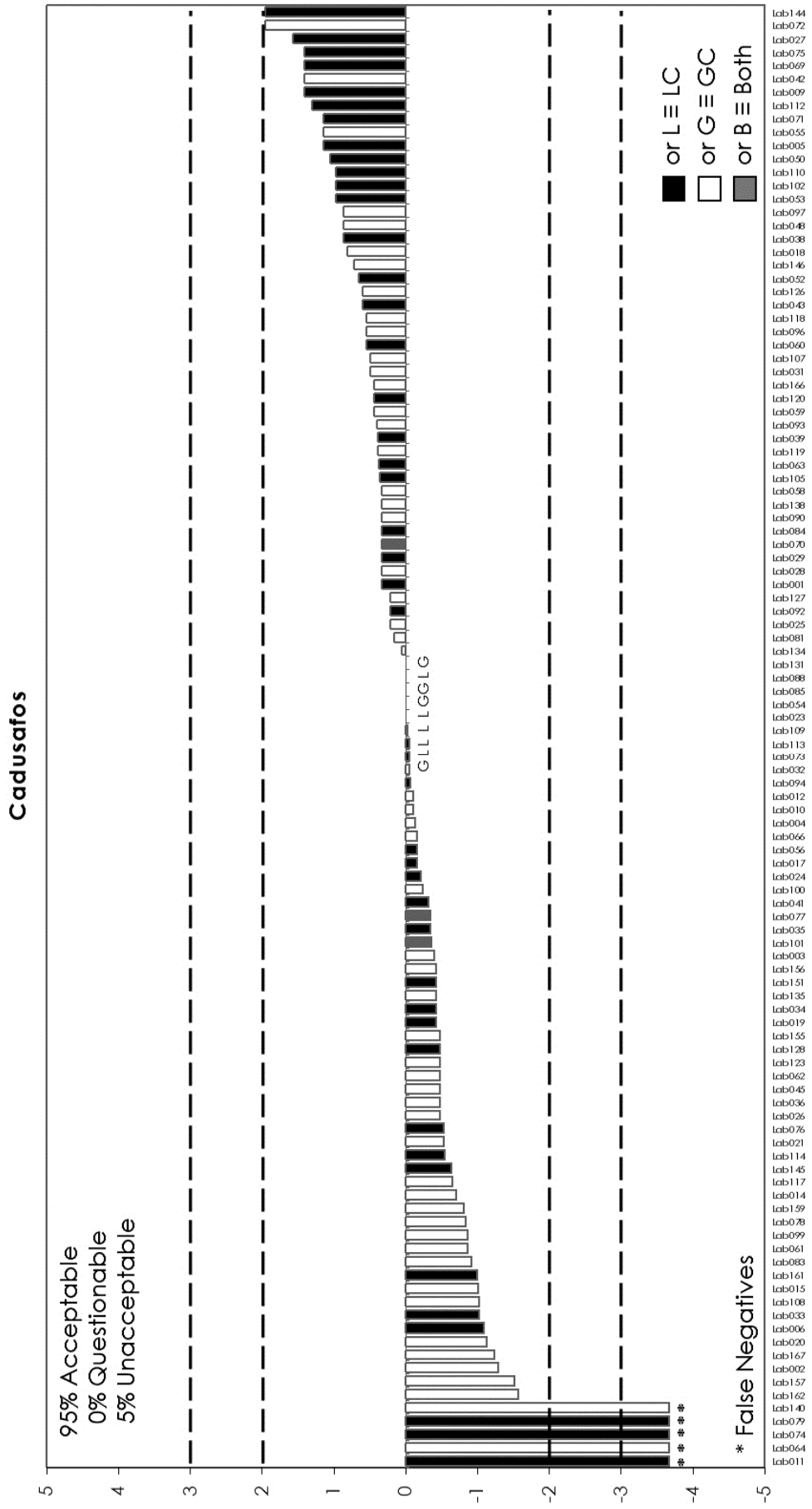
APPENDIX 3. Results (mg/Kg) and z-scores for FFP RSD (25%).

Lab Code	Iprodione	z-Score (FFP RSD 25%)	Methoxyfenozide	z-Score (FFP RSD 25%)	Phosmet	z-Score (FFP RSD 25%)	Pyraclostrobin	z-Score (FFP RSD 25%)	Pyrimethanil	z-Score (FFP RSD 25%)	Spirodiclofen	z-Score (FFP RSD 25%)	Thiabendazole	z-Score (FFP RSD 25%)	Triflumuron	z-Score (FFP RSD 25%)
MRRL	**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**		**0.01**	
Median (mg/kg)	**0.334**		**0.154**		**0.068**		**0.172**		**0.107**		**0.111**		**0.461**		**0.455**	
Lab132	0,255	-0,9	NA		0,056	-0,7	NA		0,085	-0,8	NA		0,375	-0,7	NA	
Lab133	0,364	0,4	NA		0,579	5,0	NA		0,132	0,9	NA		0,546	0,7	NA	
Lab134	0,326	-0,1	0,167	0,3	0,091	1,4	0,179	0,2	0,114	0,3	NA		0,637	1,5	0,405	-0,4
Lab135	0,348	0,2	0,179	0,6	0,083	0,9	0,198	0,6	0,110	0,1	0,120	0,3	0,483	0,2	0,385	-0,6
Lab136	ND	-3,9	0,260	2,8	0,090	1,3	0,210	0,9	0,140	1,2	0,450	5,0	0,690	2,0	0,660	1,8
Lab137	0,316	-0,2	0,165	0,3	0,090	1,3	0,198	0,6	0,086	-0,8	NA		0,520	0,5	0,466	0,1
Lab138	0,384	0,6	0,159	0,1	0,064	-0,2	0,180	0,2	0,122	0,6	0,106	-0,2	0,465	0,0	0,456	0,0
Lab139	NA		NA		NA		NA		NA		NA		NA		NA	
Lab140	0,300	-0,4	0,140	-0,4	0,028	-2,4	0,170	0,0	0.075	-1.2	0.093	-0.6	0,340	-1,0	0,150	-2,7
Lab141	0,070	-3,2	NA		ND	-3,4	0,500	5,0	0,060	-1,8	NA		NA		NA	
Lab142	0,224	-1,3	NA		0,067	-0,1	NA		0,089	-0,7	NA		NA		NA	
Lab143	0,363	0,3	NA		0,056	-0,7	0,138	-0,8	0,093	-0,5	NA		0,431	-0,3	NA	
Lab144	0,190	-1,7	0,170	0,4	0,050	-1,1	0,210	0,9	0,130	0,9	NA		0,540	0,7	0,520	0,6
Lab145	0,316	-0,2	NA		0,039	-1,7	0,139	-0,8	ND	-3,6	ND	-3,6	0,307	-1,3	0,305	-1,3
Lab146	0,778	5,3	0,136	-0,5	0,085	1,0	0,211	0,9	0,144	1,4	0,133	0,8	0,333	-1,1	0,469	0,1
Lab147	0,343	0,1	NA		NA		NA		NA		NA		NA		NA	
Lab148	0,330	0,0	NA		0,070	0,1	0,200	0,7	0,100	-0,3	0,100	-0,4	0,460	0,0	NA	
Lab149	0,260	-0,9	0,170	0,4	0,057	-0,6	0,150	-0,5	0,110	0,1	ND	-3,6	0,400	-0,5	0,510	0,5
Lab150	0,212	-1,5	NA		ND	-3,4	NA		0,112	0,2	NA		0,406	-0,5	NA	
Lab151	0,279	-0,7	0,136	-0,5	0,072	0,2	0,194	0,5	0,091	-0,6	0,127	0,6	0,633	1,5	0,478	0,2
Lab152	0,780	5,0	NA		NA		NA		NA		NA		NA		NA	
Lab153	NA		NA		NA		0,164	-0,2	0,127	0,7	NA		0,475	0,1	0,449	-0,1
Lab154	0,550	2,6	0,089	-1,7	0,075	0,4	0,110	-1,4	0,059	-1,8	0,120	0,3	0,280	-1,6	NA	
Lab155	0,653	3,8	0,138	-0,4	0,053	-0,9	0,153	-0,4	0,091	-0,6	0,105	-0,2	0,468	0,1	0,357	-0,9
Lab156	0,283	-0,6	0,152	-0,1	0,068	0,0	0,165	-0,2	0,103	-0,1	0,124	0,5	0,432	-0,3	NA	
Lab157	0,338	0,0	0,124	-0,8	0,067	-0,1	0,317	3,4	0,121	0,5	0,218	3,9	0,547	0,7	0,453	0,0
Lab158	0,316	-0,2	NA		0,061	-0,4	NA		0,131	0,9	NA		NA		NA	
Lab159	0,278	-0,7	0,157	0,1	0,031	-2,2	0,159	-0,3	0,085	-0,8	NA		0,342	-1,0	NA	
Lab160	No Results Submitted															
Lab161	0,383	0,6	0,108	-1,2	0,054	-0,8	0,114	-1,3	0,069	-1,4	NA		0,555	0,8	0,308	-1,3
Lab162	1,114	5,0	0,149	-0,1	0,143	4,4	NA		0,157	1,9	NA		0,636	1,5	NA	
Lab163	NA		NA		NA		NA		NA		NA		NA		NA	
Lab164	Participation Cancelled															
Lab165	0,360	0,3	NA		0,050	-1,1	0,150	-0,5	0,090	-0,6	NA		0,430	-0,3	NA	
Lab166	NA		NA		NA		NA		NA		NA		NA		NA	
Lab167	0,543	2,5	0,144	-0,3	0,073	0,3	0,119	-1,2	0,075	-1,2	0,080	-1,1	0,497	0,3	0,321	-1,2
Lab168	NA		NA		NA		NA		NA		NA		NA		NA	
Lab169	NA		NA		NA		NA		NA		NA		NA		NA	

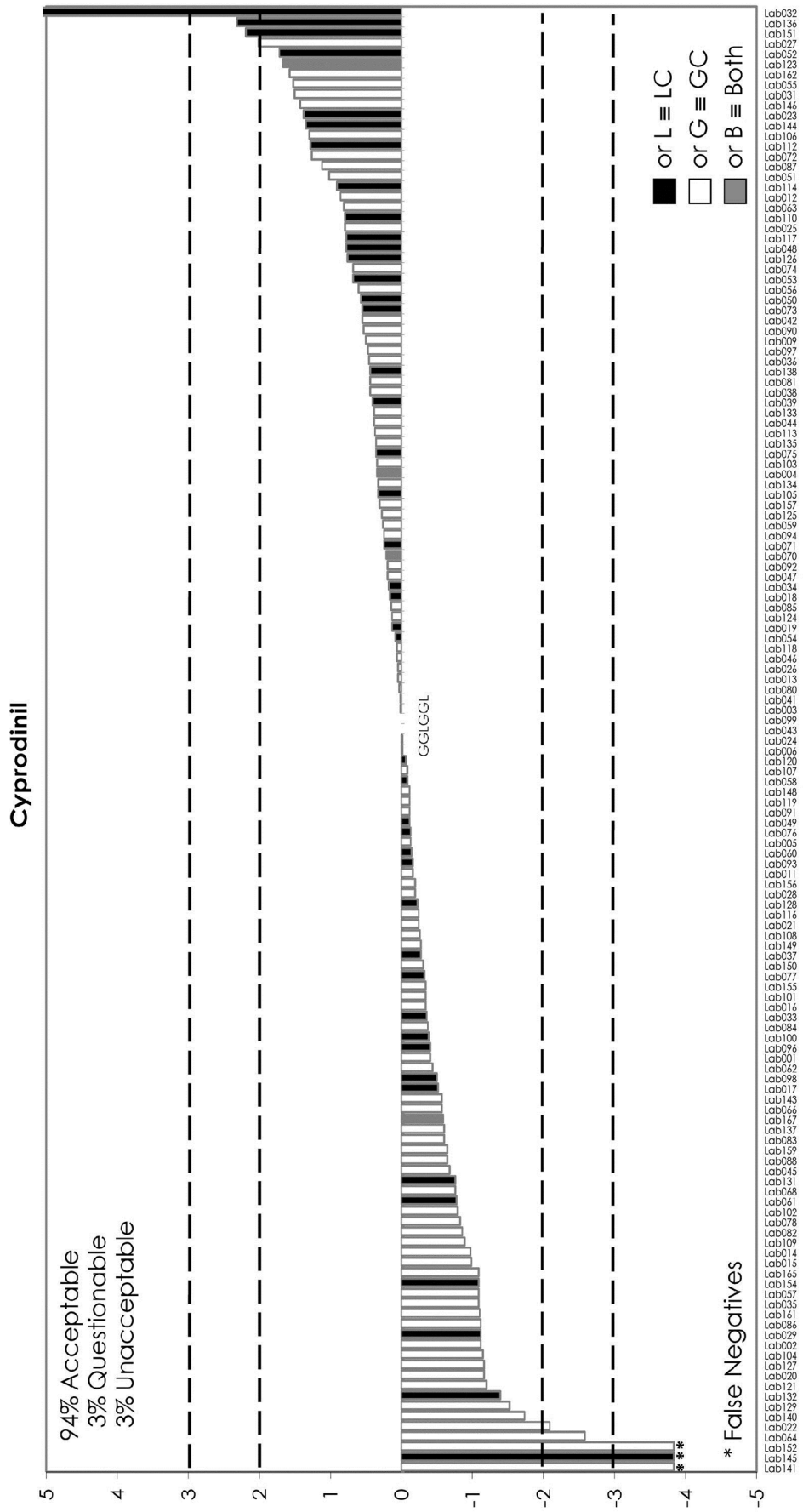
APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



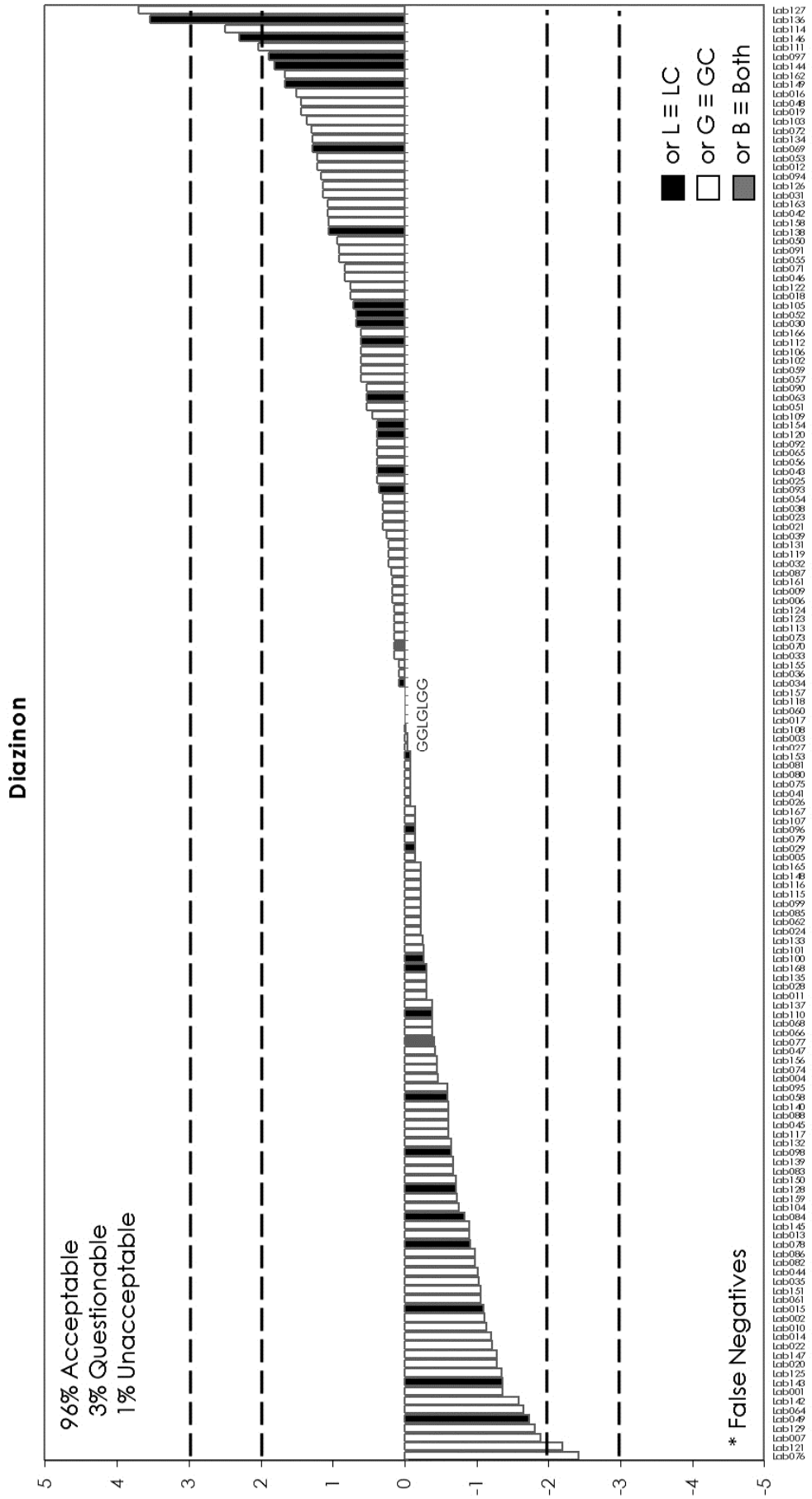
APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



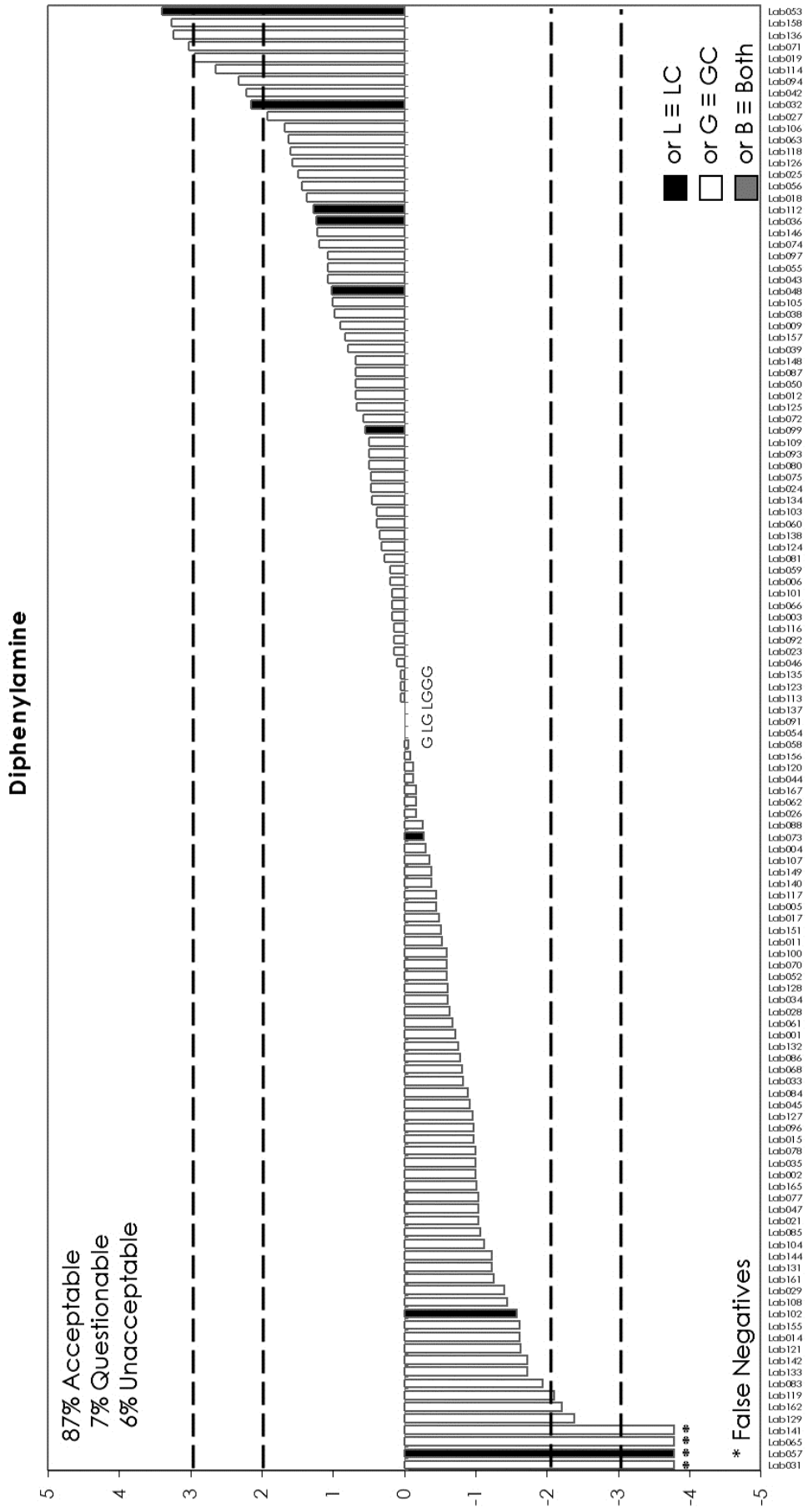
APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



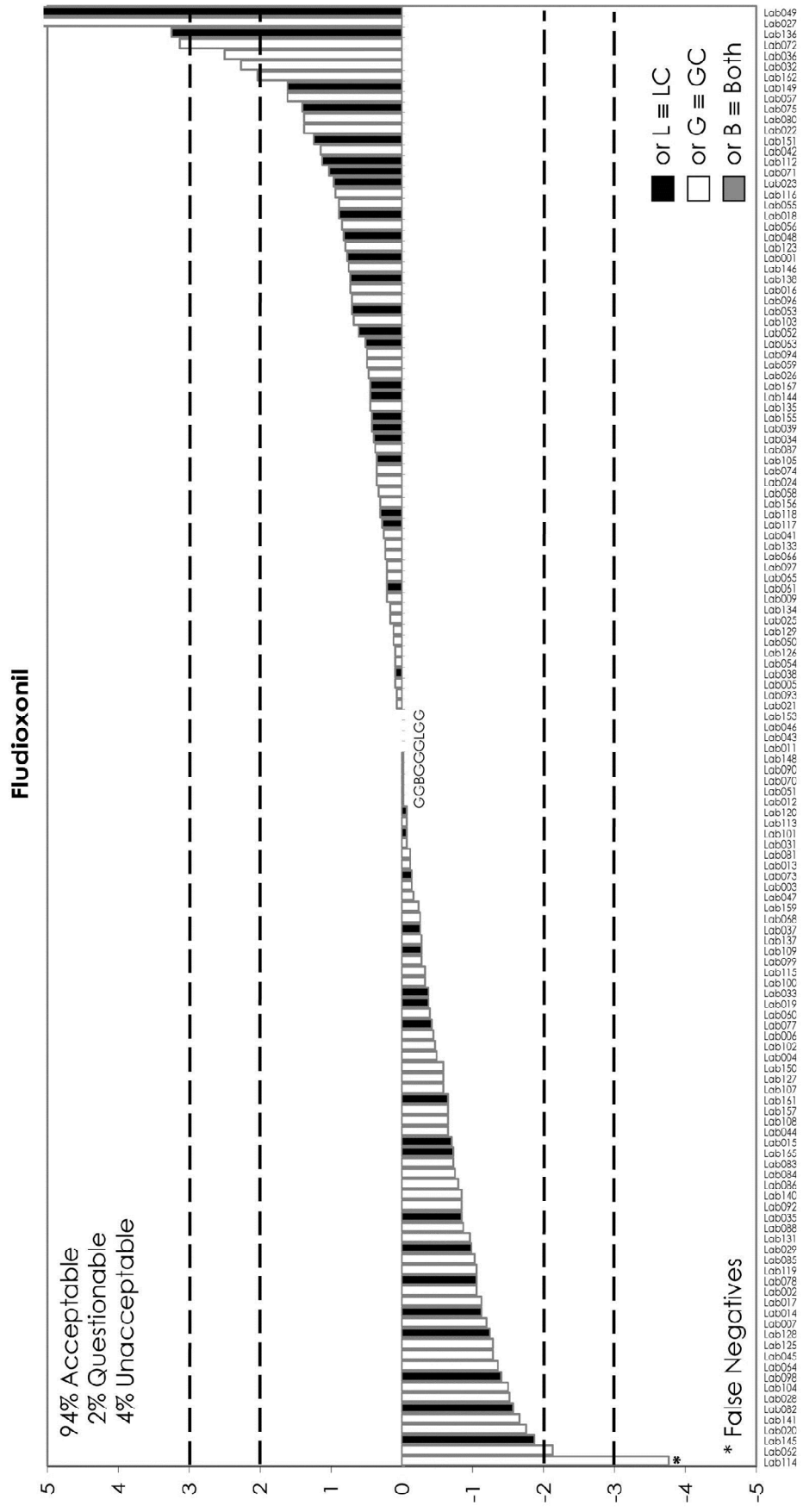
APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



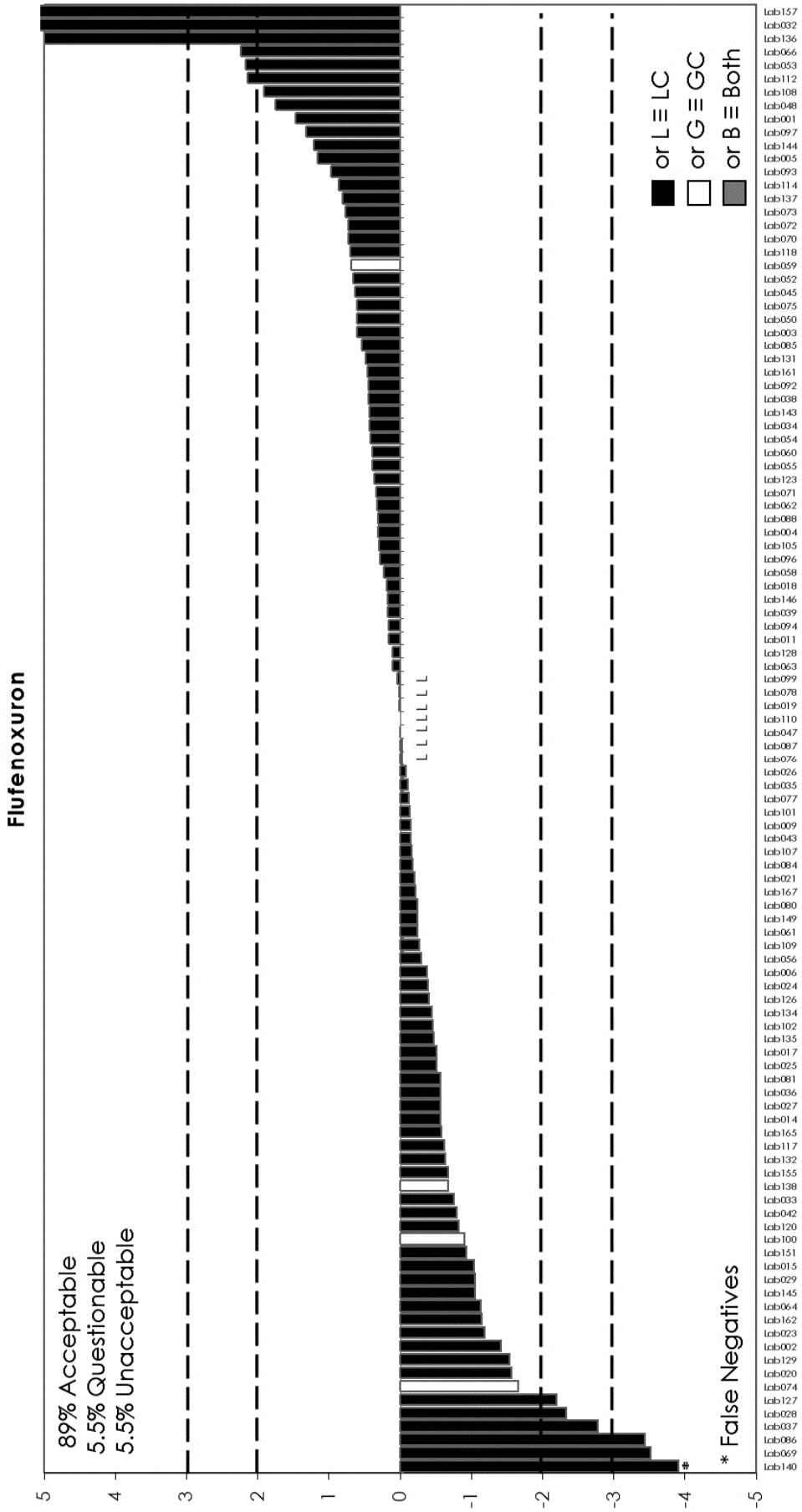
APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



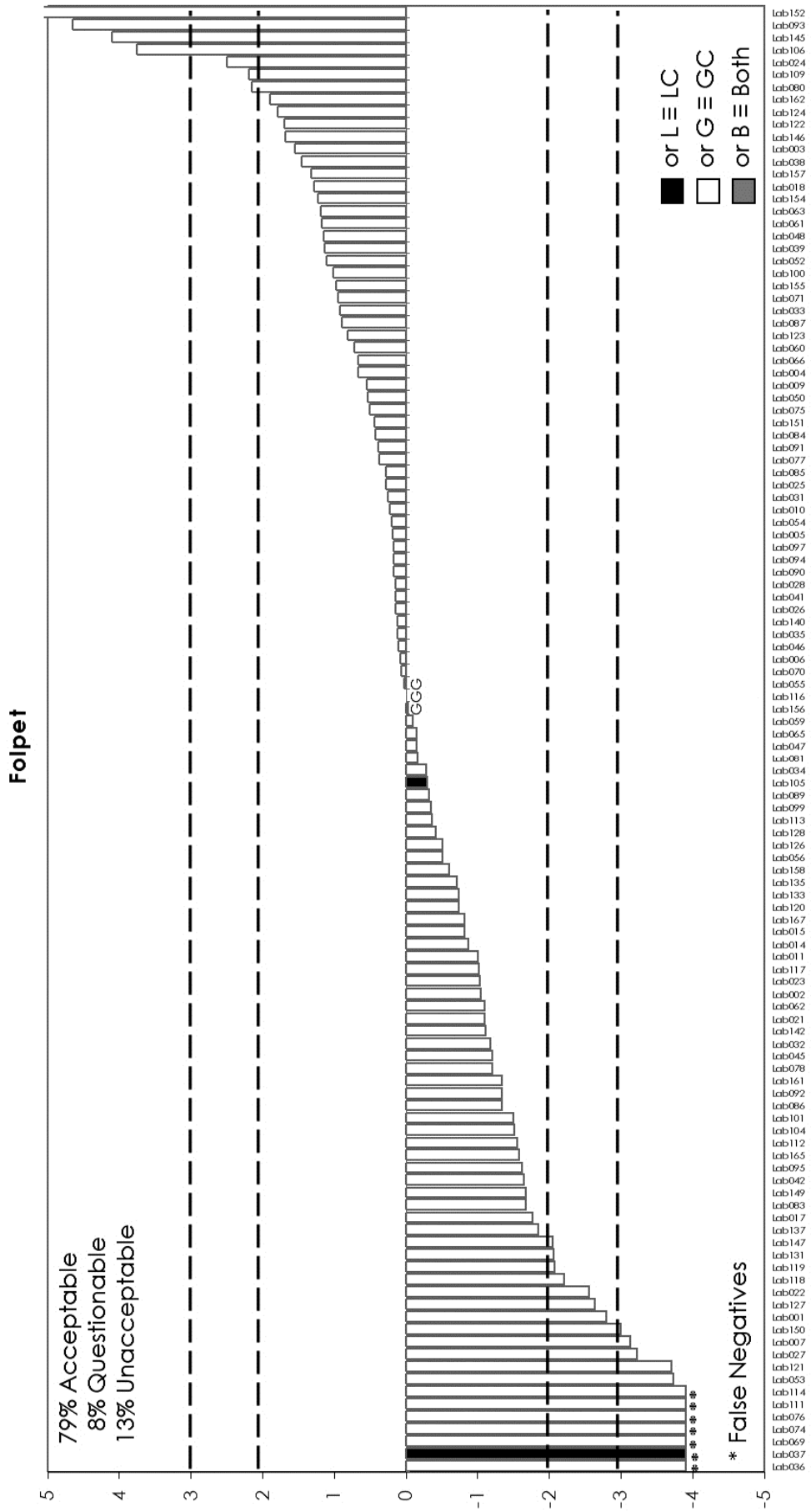
APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



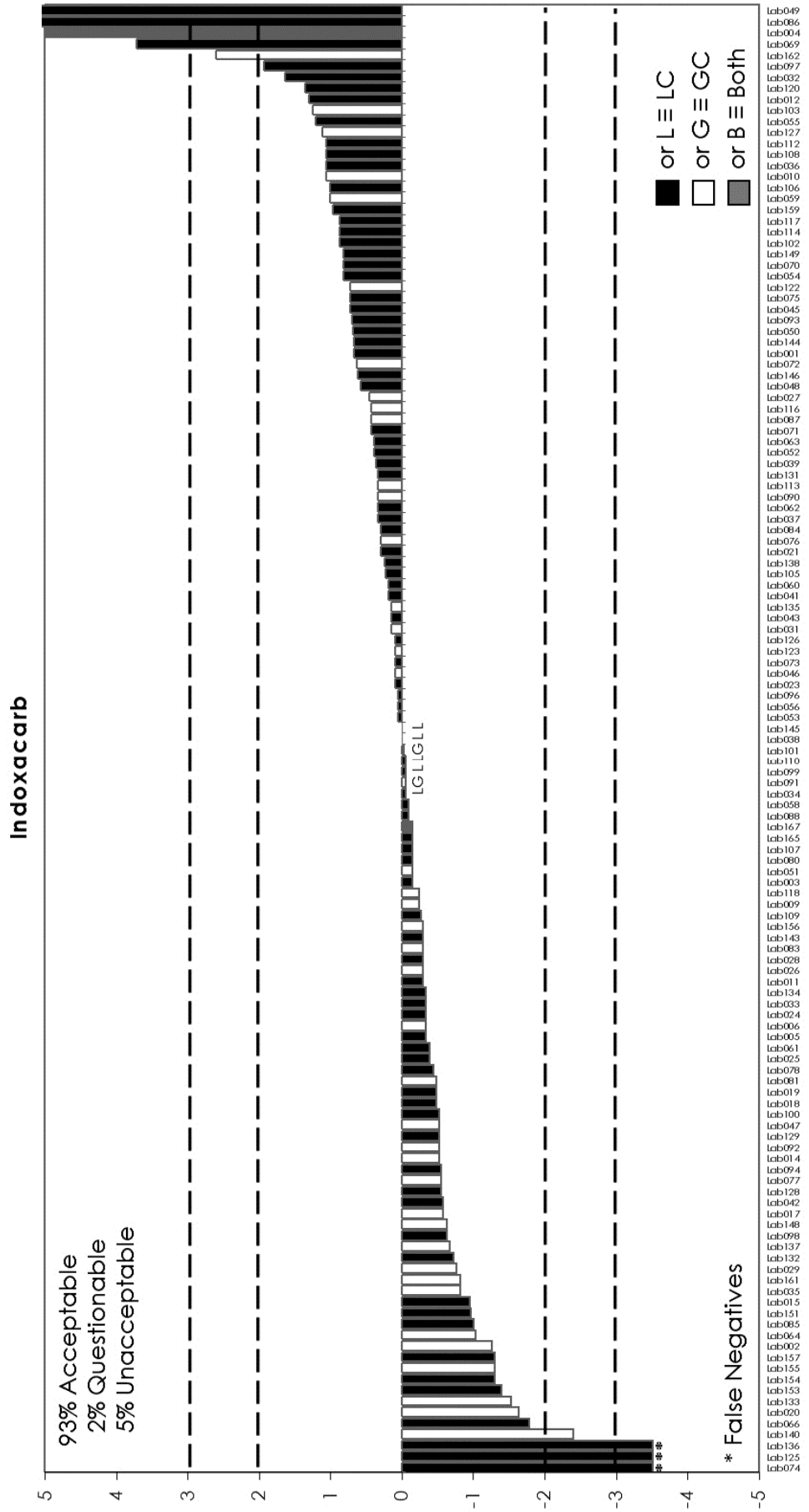
APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



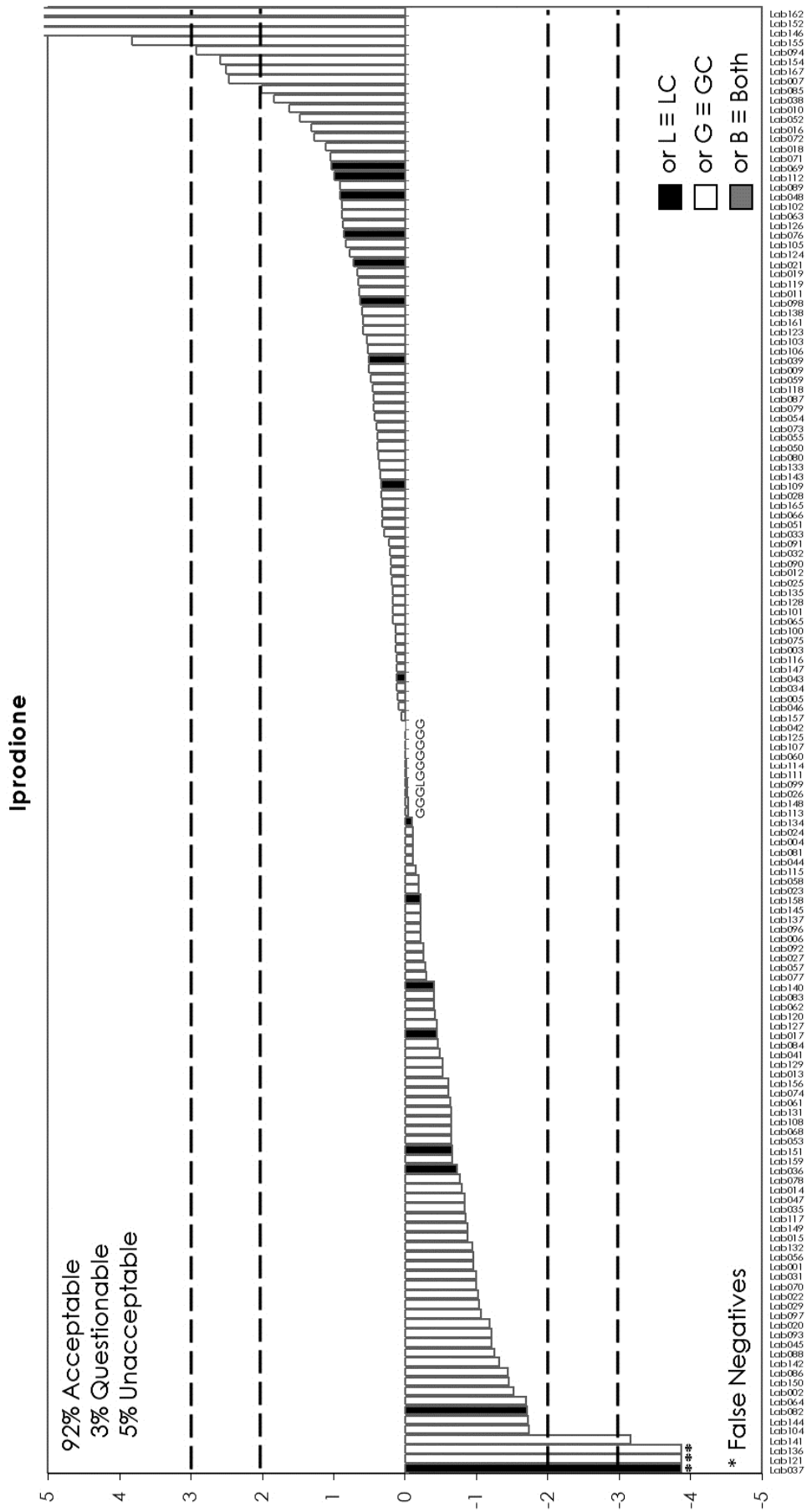
APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



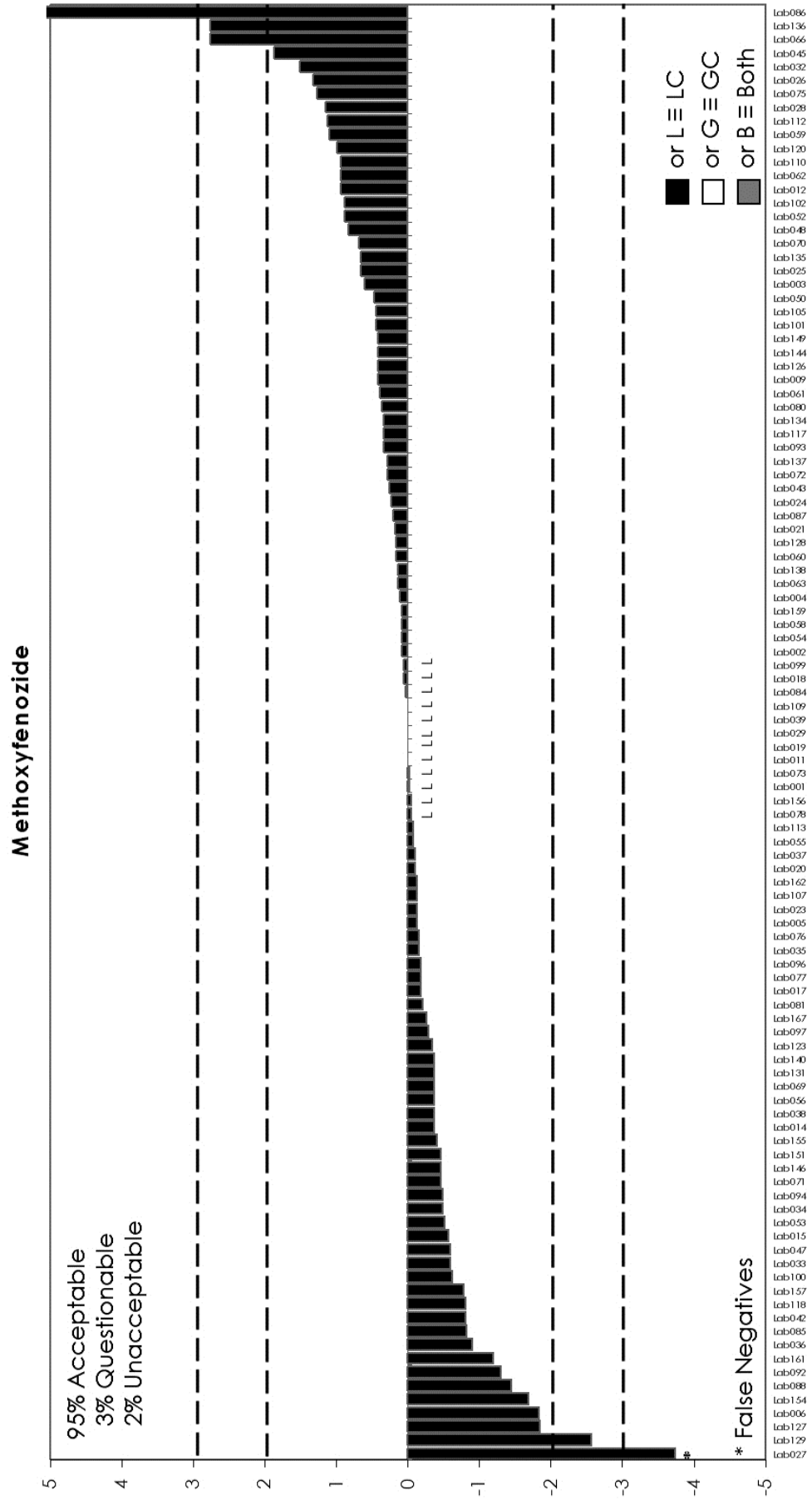
APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



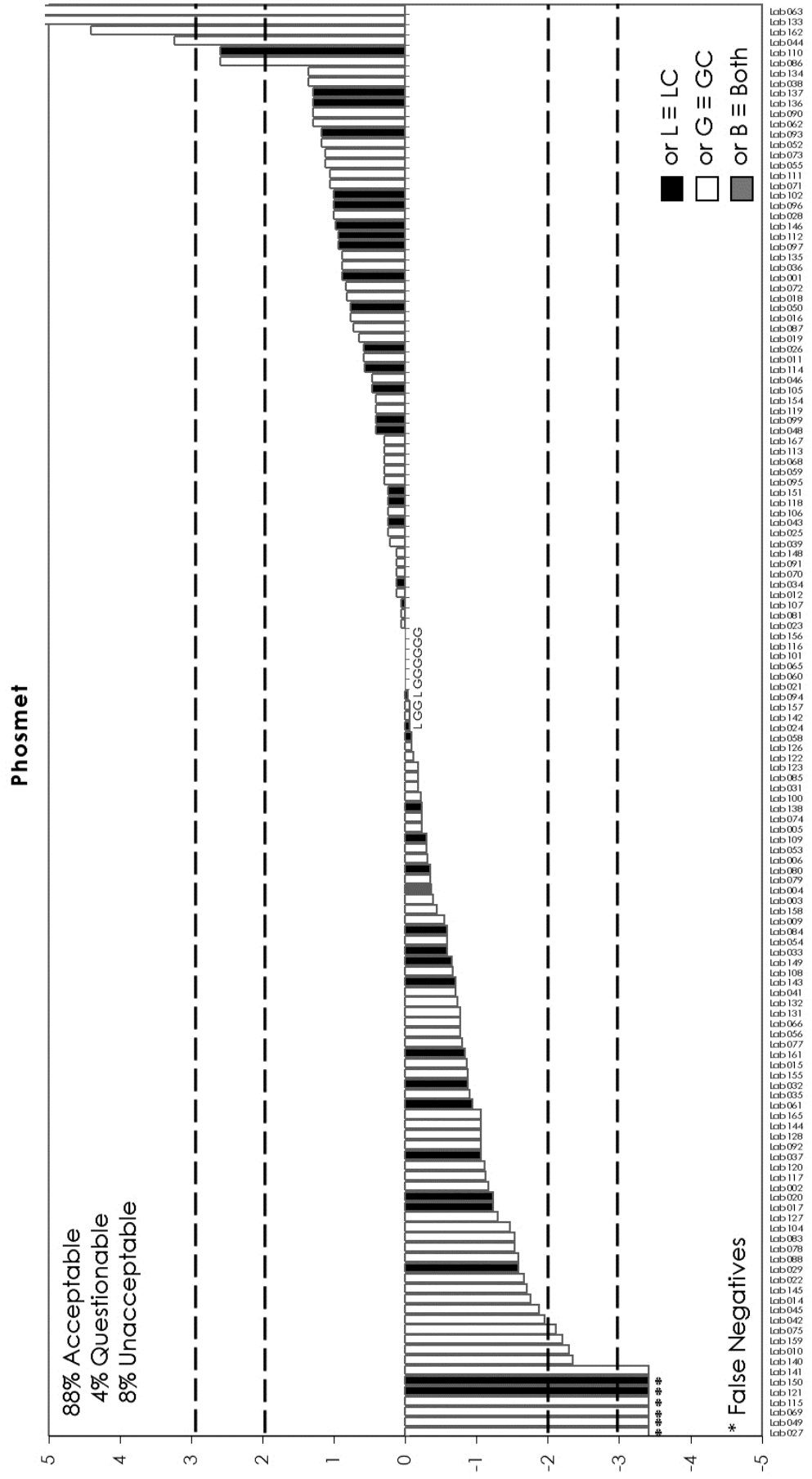
APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



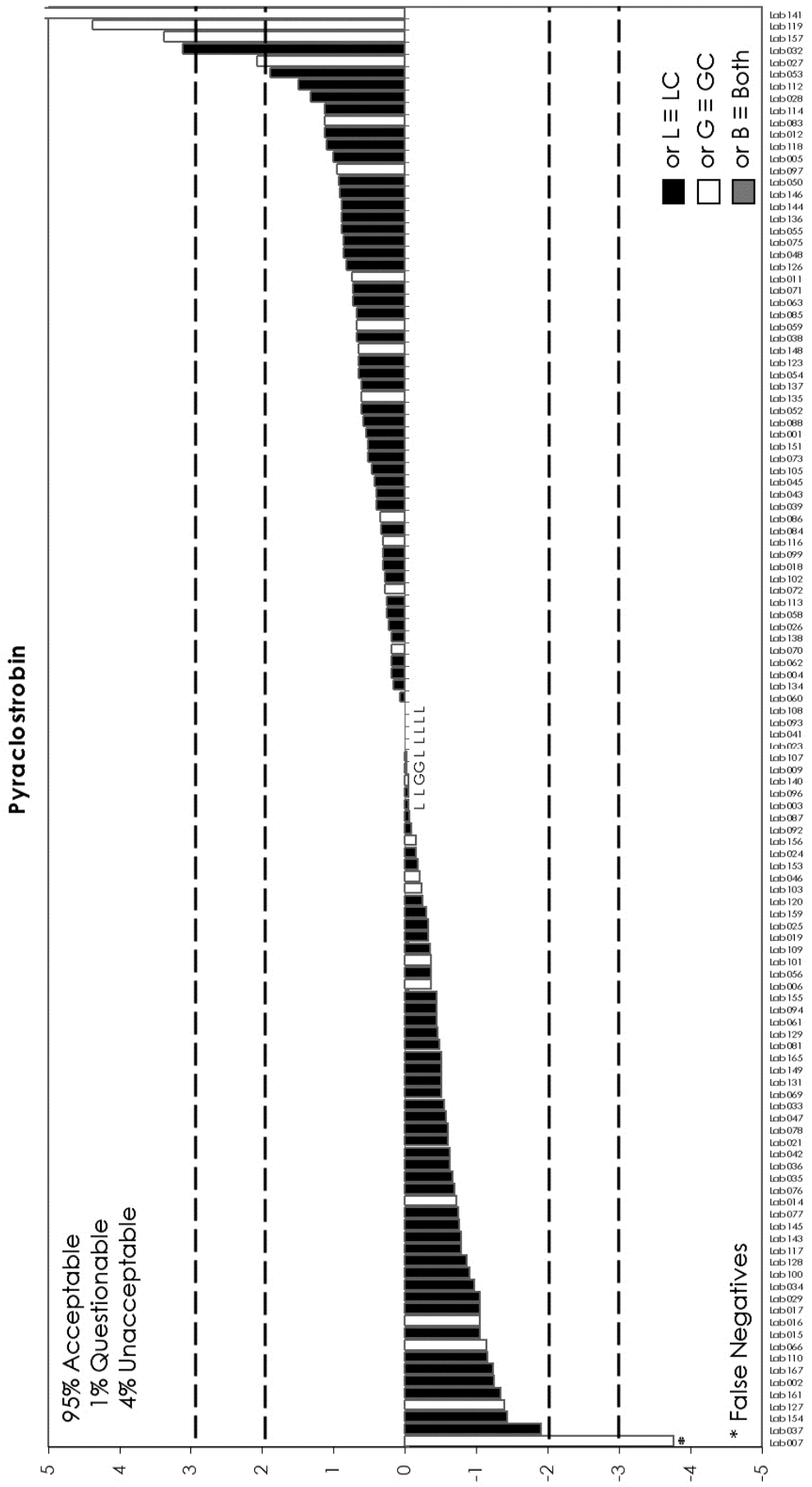
APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



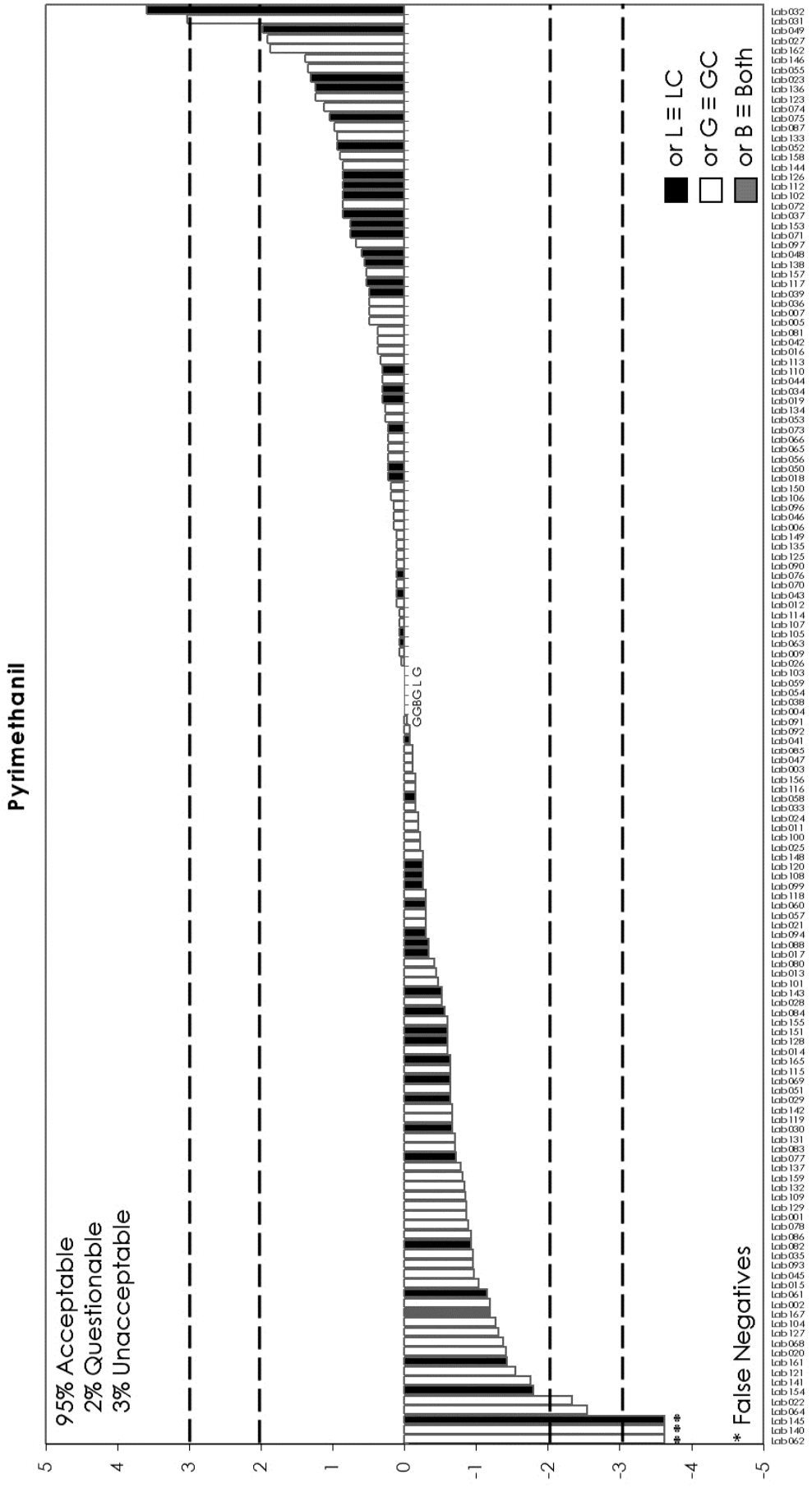
APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



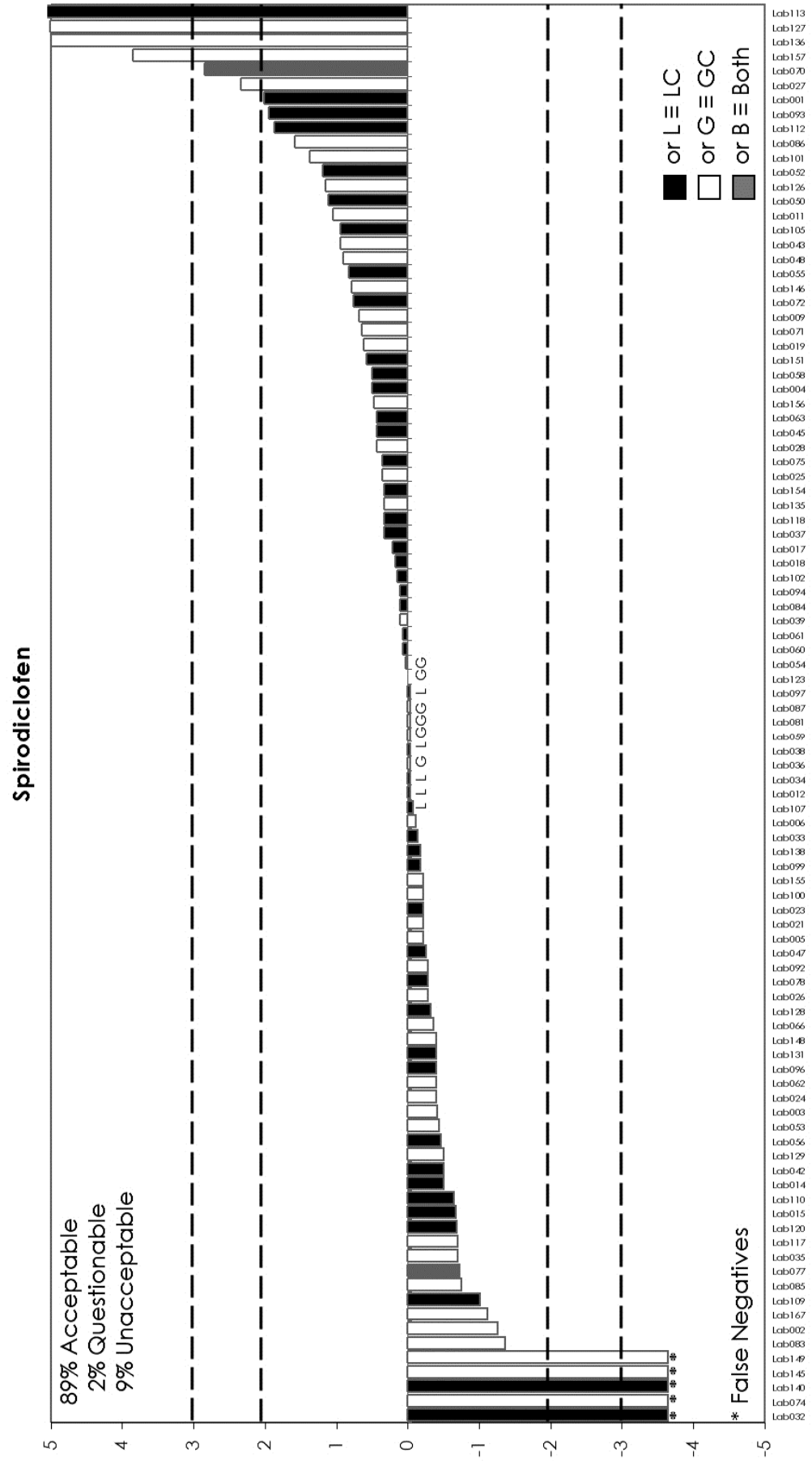
APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



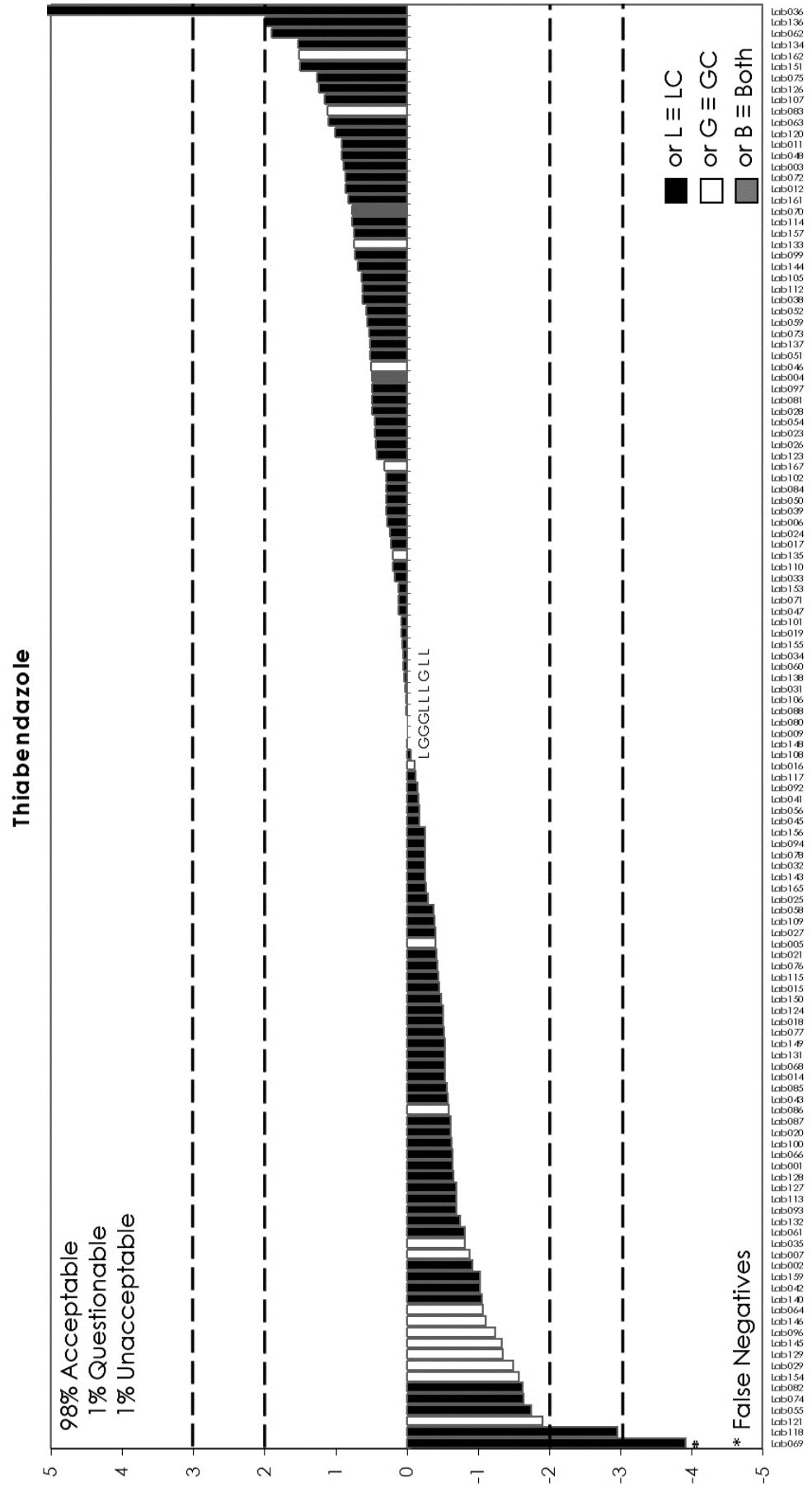
APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



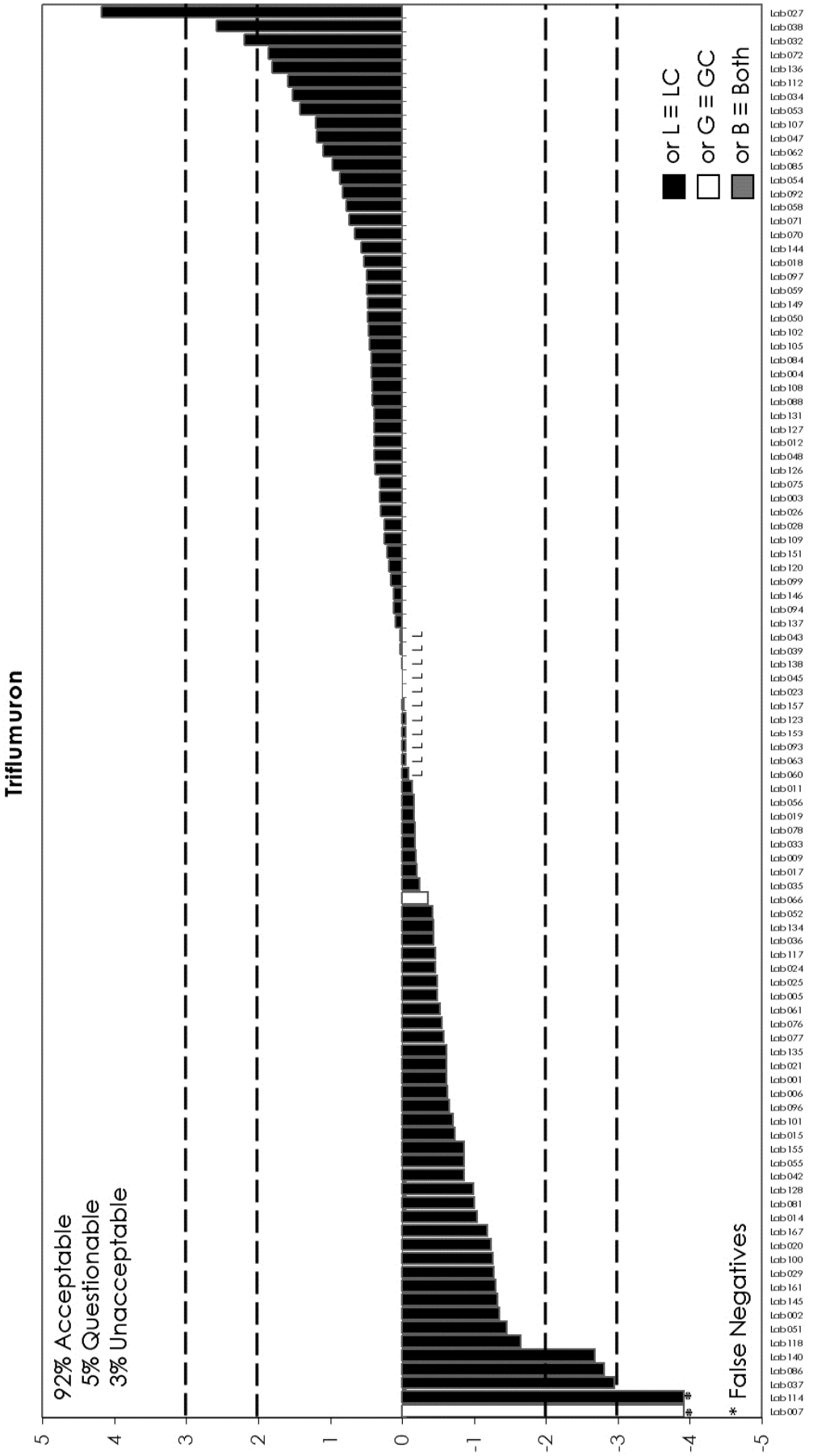
APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



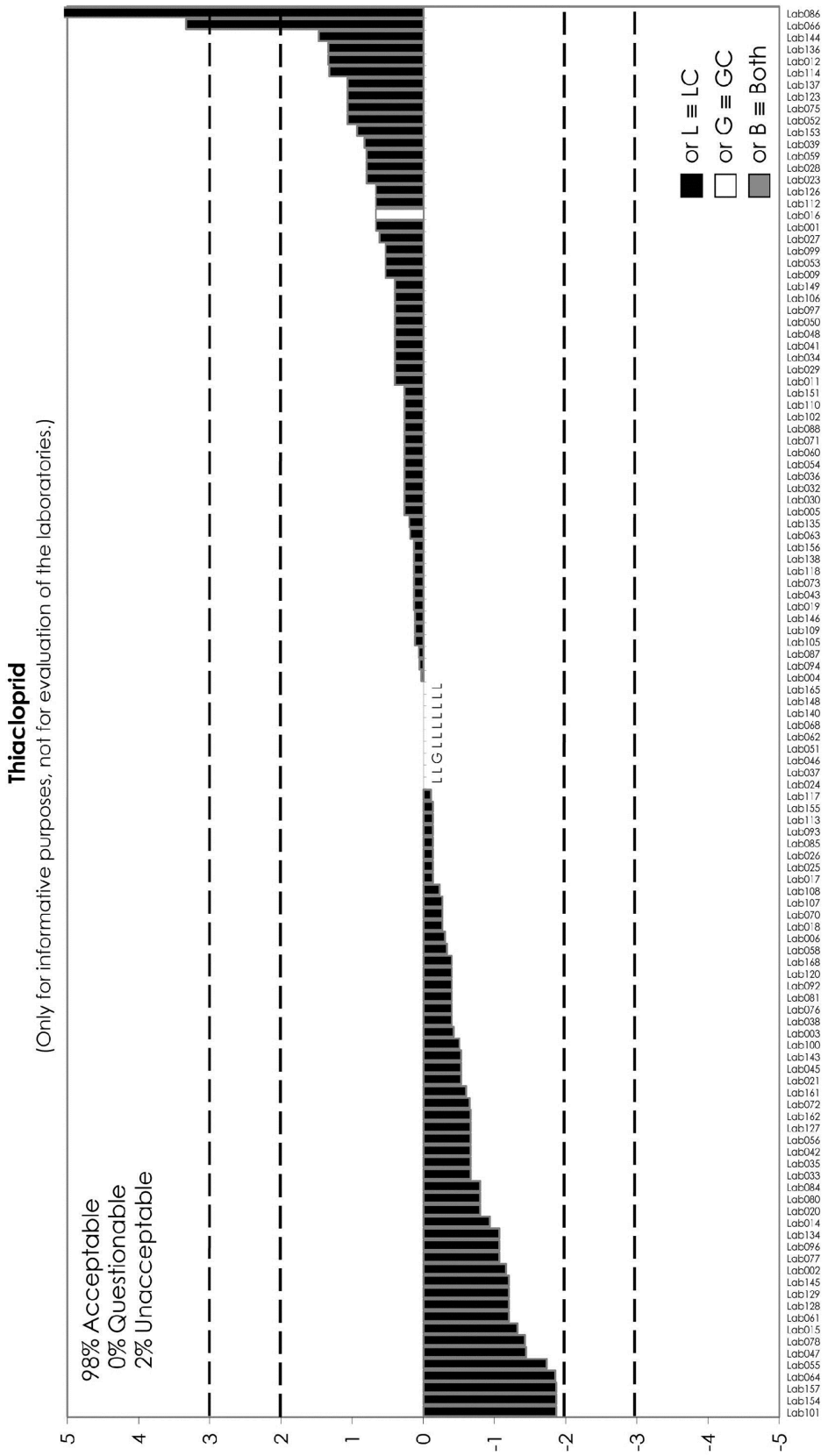
APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



APPENDIX 4. Graphical representation of z-scores for FFP RSD (25 %).



APPENDIX 4. Graphical Representation of z-scores for FFP RSD (25 %).



APPENDIX 5. Average of the Squared z-Score (AZ^2) for laboratories in Category A.

Lab Code	Boscalid	Cadusafos	Cyprodinil	Diazinon	Diphenylamine	Fludioxonil	Flufenoxuron	Folpet	Indoxacarb	Iprodione	Methoxyfenozide	Phosmet	Pyraclostrobin	Pyrimethanil	Spirodiclofen	Thiabendazole	Triflumuron	No. of Pesticides	AZ^2
	z-score																		
1	0.8	0.3	-0.4	-1.4	-0.7	0.8	1.5	-2.8	0.7	-1.0	0.0	0.9	0.5	-0.9	2.0	-0.6	-0.6	17	1.3
2	-1.5	-1.3	-1.1	-1.1	-1.0	-1.1	-1.4	-1.1	-1.3	-1.5	0.1	-1.2	-1.3	-1.2	-1.3	-0.9	-1.4	17	1.4
3	-0.7	-0.4	0.0	0.0	0.2	-0.1	0.6	1.5	-0.2	0.1	0.6	-0.4	0.0	-0.1	-0.4	0.9	0.3	17	0.3
4	-0.1	-0.1	0.3	-0.5	-0.3	-0.5	0.3	0.7	5.0	-0.1	0.1	-0.4	0.2	0.0	0.5	0.5	0.4	17	1.6
5	-0.2	1.1	-0.1	-0.2	-0.4	0.1	1.2	0.2	-0.3	0.1	-0.1	-0.2	1.0	0.5	-0.2	-0.4	-0.5	17	0.3
6	-0.6	-1.1	0.0	0.2	0.2	-0.4	-0.4	0.1	-0.3	-0.2	-1.8	-0.3	-0.4	0.1	-0.1	0.3	-0.6	17	0.4
9	0.5	1.4	0.5	0.2	0.9	0.2	-0.1	0.5	-0.2	0.5	0.4	-0.5	0.0	0.1	0.7	0.0	-0.2	17	0.3
11	0.2	-3.7	-0.2	-0.3	-0.5	0.0	0.2	-1.0	-0.3	0.6	0.0	0.6	0.7	-0.2	1.0	0.9	-0.1	16	1.1
12	0.5	-0.1	0.9	1.2	0.7	0.0			1.3	0.2	0.9	0.1	1.1	0.1	0.0	0.9	0.4	15	0.5
14	-0.7	-0.7	-1.0	-1.2	-1.6	-1.1	-0.6	-0.9	-0.5	-0.8	-0.4	-1.8	-0.7	-0.6	-0.5	-0.5	-1.0	17	0.9
15	-1.2	-1.0	-1.0	-1.1	-1.0	-0.7	-1.0	-0.8	-1.0	-0.9	-0.6	-0.9	-1.0	-1.0	-0.7	-0.5	-0.7	17	0.8
17	-0.2	-0.2	-0.5	0.0	-0.5	-1.1	-0.5	-1.8	-0.6	-0.5	-0.2	-1.2	-1.0	-0.3	0.2	0.2	-0.2	17	0.5
18	0.4	0.8	0.2	0.8	1.4	0.9	0.2	1.3	-0.5	1.1	0.1	0.8	0.3	0.2	0.2	-0.5	0.5	17	0.5
19	-0.4	-0.4	0.1	1.4	2.9	-0.4	0.0		-0.5	0.7	0.0	0.6	-0.3	0.3	0.6	0.1	-0.2	16	0.8
21	-0.4	-0.5	-0.2	0.3	-1.0	0.1	-0.2	-1.1	0.3	0.7	0.2	0.0	-0.6	-0.3	-0.2	-0.4	-0.6	17	0.3
23	0.4	0.0	1.4	0.3	0.1	1.0	-1.2	-1.0	0.1	-0.2	-0.1	0.1	0.0	1.3	-0.2	0.4	0.0	17	0.4
24	0.2	-0.2	0.0	-0.2	0.5	0.4	-0.4	2.5	-0.3	-0.1	0.2	-0.1	-0.2	-0.2	-0.4	0.2	-0.5	17	0.4
25	0.6	0.2	0.8	0.4	1.5	0.2	-0.5	0.3	-0.4	0.2	0.6	0.2	-0.3	-0.2	0.4	-0.3	-0.5	17	0.3
26	-0.6	-0.5	0.0	-0.1	-0.2	0.5	-0.1	0.1	-0.3	0.0	1.3	0.6	0.2	0.0	-0.3	0.4	0.3	17	0.2
27	1.2	1.6	2.0	0.0	1.9	5.0	-0.6	-3.2	0.5	-0.3	-3.7	-3.4	2.1	1.9	2.3	-0.4	4.2	15	5.0
28	-1.3	0.3	-0.2	-0.3	-0.6	-1.5	-2.3	0.1	-0.3	0.3	1.1	1.0	1.3	-0.5	0.4	0.5	0.3	17	0.9
29	-0.8	0.3	-1.1	-0.2	-1.4	-1.0	-1.1		-0.8	-1.0	0.0	-1.6	-1.0	-0.6		-1.5	-1.3	15	1.0
32	1.4	-0.1	5.5	0.2	2.1	2.3	5.0	-1.2	1.6	0.2	1.5	-0.9	3.1	3.6	-3.6	-0.3	2.2	16	5.0
35	-0.7	-0.3	-1.1	-1.0	-1.0	-0.8	-0.1	0.1	-0.8	-0.8	-0.2	-0.9	-0.7	-0.9	-0.7	-0.8	-0.2	17	0.6
36	0.0	-0.5	0.5	0.1	1.2	2.5	-0.6	-3.9	1.1	-0.7	-0.9	0.9	-0.6	0.5	0.0	6.6	-0.4	16	4.2
38	0.8	0.9	0.4	0.3	1.0	0.1	0.4	1.5	0.0	1.8	-0.4	1.4	0.7	0.0	0.0	0.6	2.6	17	1.0
39	0.1	0.4	0.4	0.2	0.8	0.4	0.2	1.1	0.4	0.5	0.0	0.2	0.4	0.5	0.1	0.3	0.0	17	0.2
42	1.3	1.4	0.6	1.1	2.2	1.1	-0.8	-1.6	-0.6	0.0	-0.8	-2.0	-0.6	0.4	-0.5	-1.0	-0.9	17	1.3
43	0.2	0.6	0.0	0.4	1.1	0.0	-0.2		0.1	0.1	0.3	0.2	0.4	0.1	0.9	-0.6	0.0	16	0.2
45	0.7	-0.5	-0.7	-0.6	-0.9	-1.3	0.6	-1.2	0.7	-1.2	1.9	-1.9	0.4	-1.0	0.4	-0.2	0.0	17	1.0
48	0.7	0.9	0.8	1.4	1.0	0.8	1.8	1.1	0.6	0.9	0.8	0.4	0.9	0.6	0.9	0.9	0.4	17	0.9

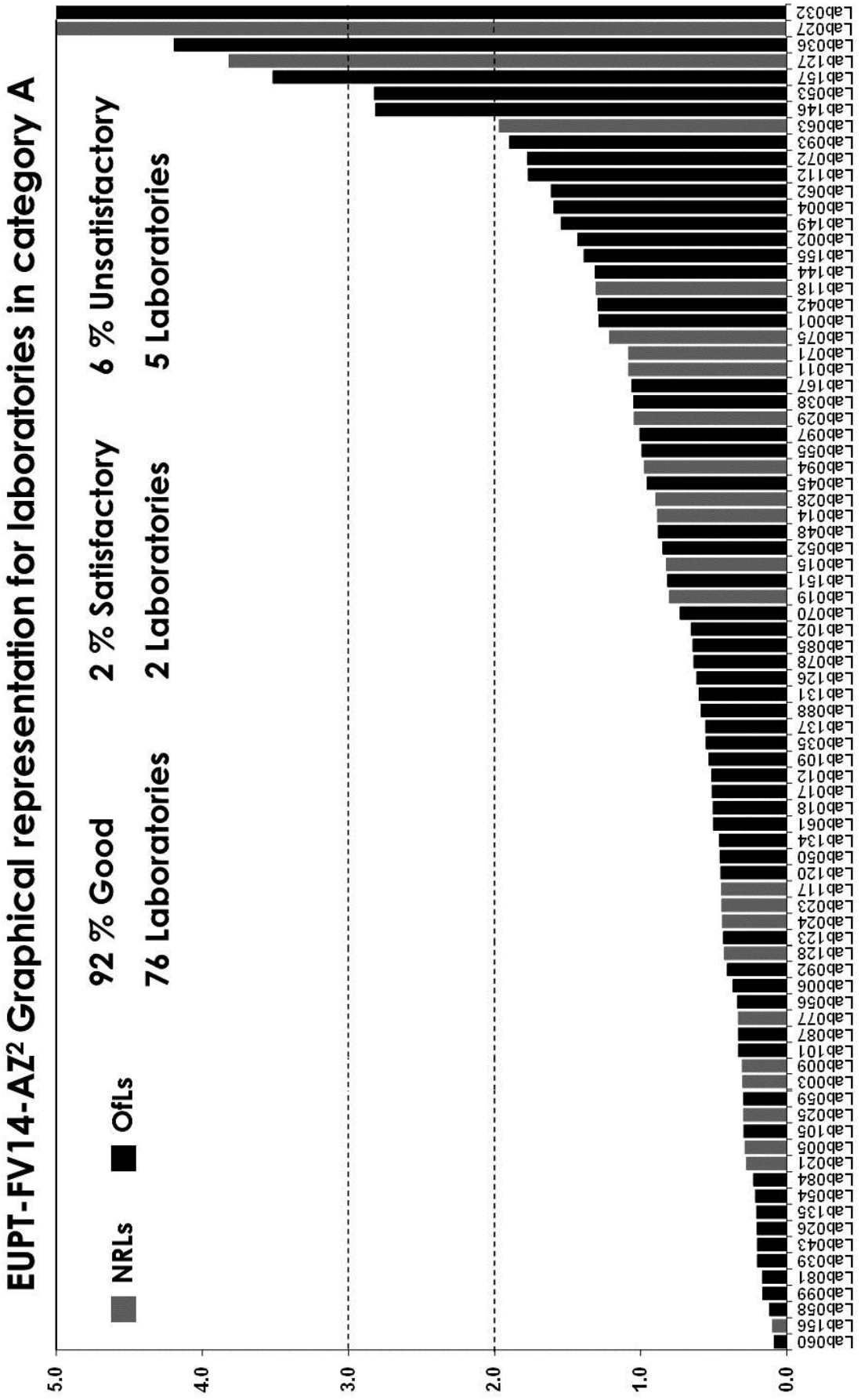
APPENDIX 5. Average of the Squared z-Score (AZ^2) for laboratories in Category A.

Lab Code	Boscalid	Cadusafos	Cyprodinil	Diazinon	Diphenylamine	Fludioxonil	Flufenoxuron	Folpet	Indoxacarb	Iprodione	Methoxyfenozide	Phosmet	Pyraclostrobin	Pyrimethanil	Spirodiclofen	Thiabendazole	Triflumuron	No. of Pesticides	AZ^2
	z-score																		
50	0.7	1.0	0.6	0.9	0.7	0.1	0.6	0.5	0.7	0.4	0.5	0.8	0.9	0.2	1.1	0.3	0.5	17	0.5
52	0.7	0.6	1.7	0.7	-0.6	0.6	0.7	1.1	0.4	1.5	0.9	1.2	0.6	0.9	1.2	0.6	-0.4	17	0.8
53	2.2	1.0	0.7	1.2	3.4	0.7	2.2	-3.7	0.0	-0.6	-0.5	-0.3	1.9	0.3	-0.4		1.4	16	2.8
54	-0.9	0.0	0.1	0.3	0.0	0.1	0.4	0.2	0.8	0.4	0.1	-0.6	0.7	0.0	0.0	0.5	0.9	17	0.2
55	0.6	1.1	1.5	0.9	1.1	0.9	0.4	0.0	1.2	0.4	-0.1	1.1	0.9	1.3	0.8	-1.8	-0.9	17	1.0
56	-0.1	-0.2	0.6	0.4	1.4	0.8	-0.3	-0.5	0.0	-1.0	-0.4	-0.8	-0.4	0.2	-0.5	-0.2	-0.2	17	0.3
58	0.3	0.3	-0.1	-0.6	-0.1	0.3	0.2		-0.1	-0.2	0.1	-0.1	0.3	-0.1	0.5	-0.4	0.8	16	0.1
59	0.3	0.4	0.3	0.6	0.2	0.5	0.7	-0.1	1.0	0.5	1.1	0.3	0.7	0.0	0.0	0.6	0.5	17	0.3
60	0.1	0.5	-0.1	0.0	0.4	-0.4	0.4	0.7	0.2	0.0	0.2	0.0	0.1	-0.3	0.1	0.0	-0.1	17	0.1
61	-0.3	-0.9	-0.8	-1.1	-0.7	0.2	-0.3	1.2	-0.4	-0.6	0.4	-0.9	-0.4	-1.2	0.1	-0.8	-0.5	17	0.5
62	0.3	-0.5	-0.4	-0.2	-0.2	-2.1	0.3	-1.1	0.3	-0.4	0.9	1.3	0.2	-3.6	-0.4	1.9	1.1	16	1.6
63	0.5	0.4	0.8	0.5	1.6	0.5	0.1	1.2	0.4	0.9	0.1	5.0	0.7	0.1	0.4	1.1	-0.1	17	2.0
70	0.1	0.3	0.2	0.2	-0.6	0.0	0.7	0.1	0.8	-1.0	0.7	0.1	0.2	0.1	2.8	0.8	0.7	17	0.7
71	0.7	1.1	0.2	0.8	3.0	1.0	0.3	0.9	0.4	1.0	-0.5	1.1	0.7	0.7	0.6	0.1	0.7	17	1.1
72	1.5	1.9	1.3	1.3	0.6	3.1	0.7		0.6	1.3	0.3	0.8	0.3	0.9	0.8	0.9	1.9	16	1.8
75	2.3	1.4	0.4	-0.1	0.5	1.4	0.6	0.5	0.7	0.1	1.3	-2.1	0.9	1.0	0.4	1.3	0.3	17	1.2
77	-0.7	-0.3	-0.3	-0.4	-1.0	-0.4	-0.1	0.4	-0.5	-0.3	-0.2	-0.8	-0.7	-0.7	-0.7	-0.5	-0.6	17	0.3
78	-0.7	-0.8	-0.8	-0.9	-1.0	-1.1	0.0	-1.2	-0.4	-0.8	-0.1	-1.5	-0.6	-0.9	-0.3	-0.3	-0.2	17	0.6
81	-0.5	0.2	0.4	-0.1	0.3	-0.1	-0.6	-0.2	-0.5	-0.1	-0.2	0.1	-0.5	0.4	0.0	0.5	-1.0	17	0.2
84	-0.1	0.3	-0.4	-0.8	-0.9	-0.7	-0.2	0.4	0.3	-0.5	0.0	-0.6	0.3	-0.6	0.1	0.3	0.4	17	0.2
85	-0.5	0.0	0.1	-0.2	-1.1	-1.0	0.5	0.3	-1.0	2.0	-0.8	-0.2	0.7	-0.1	-0.8	-0.6	1.0	17	0.6
87	0.1		1.1	0.2	0.7	0.4	0.0	0.9	0.4	0.4	0.2	0.7	-0.1	1.0	0.0	-0.6		15	0.3
88	0.5	0.0	-0.6	-0.6	-0.3	-0.9	0.3		-0.1	-1.3	-1.5	-1.6	0.6	-0.3		0.0	0.4	15	0.6
92	0.0	0.2	0.2	0.4	0.1	-0.8	0.4	-1.3	-0.5	-0.3	-1.3	-1.1	-0.1	-0.1	-0.3	-0.2	0.8	17	0.4
93	-0.7	0.4	-0.2	0.4	0.5	0.1	1.0	4.6	0.7	-1.2	0.3	1.2	0.0	-1.0	1.9	-0.7	-0.1	17	1.9
94	-0.1	-0.1	0.2	1.2	2.3	0.5	0.2	0.2	-0.5	2.9	-0.5	0.0	-0.4	-0.3	0.1	-0.3	0.1	17	1.0
97	1.4	0.9	0.5	1.9	1.1	0.2	1.3	0.2	1.9	-1.1	-0.3	0.9	1.0	0.7	0.0	0.5	0.5	17	1.0
99	-0.7	-0.9	0.0	-0.2	0.6	-0.3	0.0	-0.3	0.0	0.0	0.1	0.4	0.3	-0.3	-0.2	0.7	0.2	17	0.2
101	-0.2	-0.4	-0.3	-0.3	0.2	-0.1	-0.1	-1.5	0.0	0.2	0.4	0.0	-0.4	-0.5	1.4	0.1	-0.7	17	0.3
102	1.1	1.0	-0.8	0.6	-1.6	-0.5	-0.5		0.9	0.9	0.9	1.0	0.3	0.9	0.1	0.3	0.5	16	0.7
105	0.3	0.4	0.3	0.7	1.0	0.4	0.3	-0.3	0.2	0.8	0.4	0.5	0.5	0.1	0.9	0.6	0.5	17	0.3
109	-0.7	0.0	-0.9	0.4	0.5	-0.3	-0.3	2.2	-0.3	0.3	0.0	-0.3	-0.3	-0.8	-1.0	-0.4	0.2	17	0.5

APPENDIX 5. Average of the Squared z-Score (AZ^2) for laboratories in Category A.

Lab Code	Boscalid	Cadusafos	Cyprodinil	Diazinon	Diphenylamine	Fludioxonil	Flufenoxuron	Folpet	Indoxacarb	Iprodione	Methoxyfenozide	Phosmet	Pyraclostrobin	Pyrimethanil	Spirodiclofen	Thiabendazole	Triflumuron	No. of Pesticides	AZ^2
	z-score																		
112	1.7	1.3	1.3	0.6	1.3	1.1	2.1	-1.6	1.1	1.0	1.1	0.9	1.5	0.9	1.9	0.6	1.6	17	1.8
117	0.2	-0.7	0.8	-0.6	-0.4	0.3	-0.6	-1.0	0.9	-0.9	0.3	-1.1	-0.8	0.5	-0.7	-0.1	-0.5	17	0.4
118	0.0	0.5	0.1	0.0	1.6	0.3	0.7	-2.2	-0.2	0.5	-0.8	0.2	1.1	-0.3	0.3	-3.0	-1.7	17	1.3
120	-0.5	0.4	-0.1	0.4	-0.1	-0.1	-0.8	-0.7	1.3	-0.4	1.0	-1.1	-0.3	-0.3	-0.7	1.0	0.2	17	0.5
123	-0.5	-0.5	1.7	0.2	0.0	0.8	0.4	0.8	0.1	0.6	-0.3	-0.2	0.7	1.2	0.0	0.4	0.0	17	0.4
126	0.1	0.6	0.8	1.1	1.6	0.1	-0.4	-0.5	0.1	0.9	0.4	-0.1	0.8	0.9	1.2	1.2	0.4	17	0.6
127	-0.9	0.2	-1.2	3.7	-1.0	-0.6	-2.2	-2.6	1.1	-0.5	-1.8	-1.3	-1.4	-1.3	5.0	-0.7	0.4	17	3.8
128	-0.5	-0.5	-0.2	-0.7	-0.6	-1.2	0.1	-0.4	-0.6	0.2	0.2	-1.1	-0.9	-0.6	-0.3	-0.7	-1.0	17	0.4
131	-0.2	0.0	-0.8	0.2	-1.2	-1.0	0.5	-2.1	0.3	-0.6	-0.4	-0.8	-0.5	-0.7	-0.4	-0.5	0.4	17	0.6
134	0.2	0.1	0.3	1.3	0.4	0.2	-0.5		-0.3	-0.1	0.3	1.4	0.2	0.3		1.5	-0.4	15	0.5
135	-0.2	-0.4	0.4	-0.3	0.0	0.4	-0.5	-0.7	0.1	0.2	0.6	0.9	0.6	0.1	0.3	0.2	-0.6	17	0.2
137	-0.4		-0.6	-0.4	0.0	-0.3	0.8	-1.8	-0.7	-0.2	0.3	1.3	0.6	-0.8		0.5	0.1	15	0.6
144	0.7	1.9	1.3	1.8	-1.2	0.4	1.2		0.7	-1.7	0.4	-1.1	0.9	0.9		0.7	0.6	15	1.3
146	0.8	0.7	1.4	2.3	1.2	0.7	0.2	1.7	0.6	5.3	-0.5	1.0	0.9	1.4	0.8	-1.1	0.1	17	2.8
149	-0.4		-0.3	1.7	-0.4	1.6	-0.3	-1.7	0.8	-0.9	0.4	-0.6	-0.5	0.1	-3.6	-0.5	0.5	15	1.5
151	0.2	-0.4	2.2	-1.1	-0.5	1.2	-0.9	0.4	-1.0	-0.7	-0.5	0.2	0.5	-0.6	0.6	1.5	0.2	17	0.8
155	-0.7	-0.5	-0.3	0.1	-1.6	0.4	-0.7	1.0	-1.3	3.8	-0.4	-0.9	-0.4	-0.6	-0.2	0.1	-0.9	17	1.4
156	-0.4	-0.4	-0.2	-0.5	-0.1	0.3		0.0	-0.3	-0.6	-0.1	0.0	-0.2	-0.1	0.5	-0.3		15	0.1
157	0.4	-1.5	0.3	0.0	0.8	-0.7	5.0	1.3	-1.3	0.0	-0.8	-0.1	3.4	0.5	3.9	0.7	0.0	17	3.5
167	-1.7	-1.2	-0.6	-0.2	-0.2	0.4	-0.2	-0.8	-0.1	2.5	-0.3	0.3	-1.2	-1.2	-1.1	0.3	-1.2	17	1.1

APPENDIX 6. EUPT 14 – AZ² - Graphical representation for laboratories in Category A..



APPENDIX 7. Methods used by participants for determining pesticides.

Boscalid

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.211		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.109	79	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.144	87.7	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.174	109	Yes	Acetone	DCM	Petr.Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.02	D	0.170	96	No	AcN			10	No	DSPE	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.150	Std add.	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	
007	0.07	D	0.19	113	No	EtOAc			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
008		NA															
009	0.01	D	0.198	96	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010	0.01	D	0.191	105	No	Acetone	DCM	Petr. Ether	7.50	No		Matrix matched - Single level	ECD		Two columns	Rec. from same batch	
011	0.01	D	0.187	95	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.20	111	No	AcN			10	Yes	PSA	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
013		NA															
014	0.01	D	0.145	99.7	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.124	106	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.198	103	No	AcN			10		DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	
017	0.01	D	0.167	99	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.194	85	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.161	91.3	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020	0.01	D	0.144	105	No	AcN			15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.158	102	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	TPP
022	0.01	D	0.110	78	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP, Quintozene
023	0.01	D	0.193	95	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.01	D	0.185	99.2	No	EtOAc			10			Matrix matched - Multiple level	ECD			Rec. from validation data	
025	0.01	D	0.202	88	No	Acetone	DCM		15	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
026	0.01	D	0.152	101	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB20
027	0.01	D	0.230	110	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
028	0.01	D	0.118	92	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.141	98	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031	0.02	D	0.176	88	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
032	0.005	D	0.237		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.152	89	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.195	92	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.146	93	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.178		No	AcN			10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)				TPP
037	0.01																
038	0.01	D	0.213	103	No	Acetone	Cyclohexane	EtOAc	75	Yes	GPC	Matrix matched - Multiple level	NPD		GC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.182	92.7	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.156	80	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
042	0.01	D	0.233	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.01	D	0.184	99.4	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044		NA															
045	0.01	D	0.208	98.6	No	AcN			5	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.183	103.6	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	ECD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Boscalid

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047	0.01	D	0.168	91.9	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
048	0.01	D	0.210		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049	0.01	D	0.36	95.2	No	AcN			10		DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
050	0.01	D	0.206	103.7	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	Linuron-D6
051		NA															
052	0.01	D	0.210	108	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053	0.01	D	0.276	80	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.139	85	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	TPP
055	0.01	D	0.205	91	Yes	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.173	81	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.19	96	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.005	D	0.192	106	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.002	D	0.182	93	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.165	110	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.19	94	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
063	0.01	D	0.199	90.3	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	TPP
064	0.01	D	0.114	91	No	EtOAc			15	No		Matrix matched - Multiple level	GC-IT-MS/MS		GC-IT-MS/MS	Rec. from same batch	
065	0.01	D	0.147	95	Yes	Acetone	DCM		5	No	SPE	Standard addition	NPD		Two columns	Rec. from validation data	
066	0.01	D	0.205	95	No	Acetone	DCM	Ptr. Eether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068	0.01	D	0.21	87	No	Acetone	MeOH		50		SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	Fenclorfos
069		NA															
070	0.01	D	0.18	100	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.209	109	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	244	92	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.194	94	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074	0.01	ND															
075	0.01	D	0.280	95.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	TPP
076		NA															
077	0.01	D	0.144	92	No	EtOAc			50	Yes		Matrix matched - Multiple level	ECD	MS/MS (QQQ)	GC-MS	Rec. from same batch	
078	0.01	D	0.146	87	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.195	88	No	AcN			10		DSPE	Matrix matched - Single level	ECD+NPD		GC-MS/MS (QQQ)	Rec. from same batch	
081	0.01	D	0.156	87.8	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-methyl
082		NA															
083	0.05	D	0.13	77	No	DCM			10	No		Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Endosulfan Lactone
084	0.01	D	0.174	95	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.157	94	No	EtOAc			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	Isoproturon-D6
086	0.01	D	0.109	78	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB 31
087	0.01	D	0.180	112	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP-D15
088	0.01	D	0.199	105	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13
089		NA															
090	0.03	D	0.20	85.1	No	DCM Acetone			5	No	DSPE	Pure solvent - Single level	ECD		GC/ECD	Rec. from validation data	
091	0.01	D	0.162	92	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
092	0.01	D	0.177	115.6	No	MeOH	DCM		10	Yes	ChemElut	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
093	0.01	D	0.146	99.8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Terbuthylazin-D5
094	0.01	D	0.174	107	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Boscalid

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095		NA															
096	0.01	D	0.174	99	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.239	108	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098	0.01	D	0.156	112	No	AcN	Acetic Acid		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
099	0.01	D	0.144	100	No	AcN			5	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	PCB-31
100	0.01	D	0.132	90.2	No	AcN			15.0	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
101	0.01	D	0.170	88	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.225	120	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.206	101	No	DCM, Acetone			5	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
104		NA															
105	0.01	D	0.191	99	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.01	D	0.156	126	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
107	0.01	D	0.179	100	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108	0.01	D	0.176	109	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.145	90.1	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
110	0.01	D	0.201	95.4	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.252	88	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.181	99	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD/NPD		Two columns	Rec. from same batch	
114	0.01	D	0.225	96	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
115		NA															
116	0.01	D	0.176	86	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.184	98	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.175	80	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.994	88	No	AcN	AcN		10	No	DSPE	Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Ethion
120	0.01	D	0.156	100	No	AcN			10	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	TDCP
121		NA															
122		NA															
123	0.01	D	0.154	94.6	No	AcN			10	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
124	0.05	D	0.189	99	No	Acetone	DCM	EtOAc	100	No	GPC	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
125	0.01	D	0.203	97	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Via Standard addition	TPP
126	0.01	D	0.183	102	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.138	91	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.155	96	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.124	70-120	No	EtOAc			10			Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
130	0.01																
131	0.01	D	0.17	130	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132		NA															
133	0.01	D	0.680	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.01	D	0.186		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS		
135	0.01	D	0.170	103.7	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	1.00	89	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=Tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.159	108.6	No	AcN			10	No	SPE	Pure solvent - Multiple level	IDT		LC-MS/MS (QQQ)	Rec. from same batch	Trichloronate
138	0.01	D	0.178	98	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															
140	0.01	D	0.16	92	No	AcN			10		DSPE						
141	0.01	D	0.2	80	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD			Rec. from validation data	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Boscalid																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
142	0.01	D	0.124	85.9	Yes	Acetone	DCM		15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	TPP
143	0.01	D	0.140	80	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
144	0.01	D	0.21	97.5	No												
145	0.01	D	0.168	82	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
146	0.01	D	0.214	102	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.17	96	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfoss
149	0.01	D	0.16	89	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD			Via Standard addition	Aldrin
150	0.01	D	0.094	-	No	EtOAc	EtOAc		20	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		Fenchlorphos
151	0.01	D	0.187	95	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153		NA															
154	0.01	D	0.11	68	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
155	0.01	D	0.147	104	No	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.04	D	0.161	83	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
157	0.01	D	0.195	90	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158		NA															
159	0.05	D	0.171	106	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.141	97.6	No	AcN			10	No		Standard addition		MS/MS (QQQ)		Rec. from same batch	
162	0.05	D	0.234	88	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.01	D	0.13	76	No	AcN			15		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
166		NA															
167	0.01	D	0.1	98	No	AcN			15	No	SPE	Pure solvent - Multiple level	ECD		GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Cadusafos

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.080		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.006	D	0.0501	77	No	EtAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.0666	98.1	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.0715	74	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.095	101	No	AcN			10					ITQ	LC-ITQ	Rec. from same batch	
006	0.006	D	0.0537	Std add	Yes	EtAc			15	No		Standard addition		MS/MS (QQQ)		Via Standard addition	
007		NA															
008		NA															
009	0.01	D	0.100	110	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
010	0.01	D	0.072	89	No	Acetone	DCM	Petr. Ether	7.50	No		Matrix matched - Single level	NPD		Two columns	Rec. from same batch	
011	0.01	ND															
012	0.01	D	0.072	95	No	AcN			10	Yes	PSA	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
013		NA															
014	0.006	D	0.061	101.4	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.0553	100	No	EtAc			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
016		NA															
017	0.01	D	0.071	102	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.089	94	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
019	0.01	D	0.066	96.5	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020	0.01	D	0.053	79.3	No	EtAc			15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.064	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
022		NA															
023	0.01	D	0.074	98	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.005	D	0.070	94.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	
025	0.006	D	0.078	90	No	Acetone	DCM		15	No		Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	
026	0.01	D	0.065	122	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.103	107	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
028	0.01	D	0.080	102	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.080	97	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031	0.05	D	0.083	107	No	Acetone	DCM	Petrol. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
032	0.01	D	0.073		No	AcN			15	No	DSPE	Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.055	94	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.066	112	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.0676	94	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
036	0.01	D	0.065		No	AcN			10		SPE	Matrix matched - Multiple level	FPD				TPP
037	0.01																
038	0.01	D	0.090	95	No	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.0811	104.8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040		NA															
041	0.01	D	0.068	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
042	0.01	D	0.100	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.01	D	0.085	100.1	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044		NA															
045	0.01	D	0.065	102.9	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Cadusafos

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047		NA															
048	0.006	D	0.090	85	No	AcN			10	No	DSPE	Pure solvent - Single level	ITD		Scan	Rec. from same batch	
049		NA															
050	0.01	D	0.0934	94.3	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-TOF	Rec. from same batch	Linuron-D6
051		NA															
052	0.01	D	0.086	105	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053	0.01	D	0.092	80	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.074	77	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	TPP
055	0.01	D	0.095	91	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.071	81	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.0801	81	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
059	0.006	D	0.082	105	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.001	D	0.084	97	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.006	D	0.058	67	No	EtAc			10	Yes	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Trifluralin-D14
062	0.01	D	0.065	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.0809	90.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	TPP
064	0.01	ND															
065		NA															
066	0.01	D	0.071	85	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068		NA															
069	0.01	D	0.1	38	Yes	AcN			20.07	No	DSPE	Pure solvent - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
070	0.006	D	0.08	95	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.095	115	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.110	95	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.073	92	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074	0.01	ND															
075	0.01	D	0.100	99	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	TPP
076	0.005	D	0.064	85.5	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.006	D	0.0676	92	No	EtAc			50	Yes	GPC	Matrix matched - Multiple level	FPD	MS/MS (QQQ)	GC-MS	Rec. from same batch	
078	0.01	D	0.0584	79	No	EtAc			10	Yes	Filtration	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	Pirimicarb-D6
079	0.01	ND															
080		NA															
081	0.01	D	0.077	94.2	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-methyl
082		NA															
083	0.05	D	0.057	72	No	DCM			10	No		Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	Ethion
084	0.01	D	0.080	100	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.006	D	0.074	106	No	EtAc			10	No	SPE	Pure solvent - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	Anthracene
086		NA															
087		NA															
088	0.01	D	0.074	100	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13
089		NA															
090	0.02	D	0.08	106.5	No	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	NPD		GC/NPD, GC/ECD	Rec. from validation data	
091		NA															
092	0.01	D	0.078	107.8	No	MeOH	DCM		10	Yes	ChemElut	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
093	0.01	D	0.0813	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	ChlorpyriphosMe-D6
094	0.006	D	0.0727	102	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Cadusafos																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095		NA															
096	0.01	D	0.084	127	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
097	0.01	D	0.090	101	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.006	D	0.058	100	No	AcN			5	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	PCB-31
100	0.01	D	0.0694	88.53	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	FPD		GC-MS	Rec. from validation data	
101	0.01	D	0.0672	106	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD	MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.092	107	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103		NA															
104		NA															
105	0.006	D	0.0807	97	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106		NA															
107	0.006	D	0.083	88	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
108	0.01	D	0.0551	87	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.0735	110.9	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110	0.01	D	0.092	118.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111																	
112	0.01	D	0.098	96	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.005	D	0.073	115.8	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
114	0.003	D	0.0639	70	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
115		NA															
116		NA															
117	0.01	D	0.0619	97	No	EtOAc			30	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Tetraphenylethylene
118	0.01	D	0.084	88	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.081	100	No	AcN	AcN		10	No	DSPE	Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	TPP
120	0.01	D	0.082	73	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121		NA															
122		NA															
123	0.006	D	0.065	98	No	AcN			10	No		Matrix matched - Multiple level	FPD		GC-MS	Rec. from validation data	
124		NA															
125		NA															
126	0.01	D	0.0850	112	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.078	106	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.0650	130	No	Acetone	DCM	Petr. Ehter	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129		NA															
130		NA															
131	0.01	D	0.074	70	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS ion trap			Rec. from same batch	TPP
132		NA															
133		NA															
134	0.01	D	0.075		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS		
135	0.01	D	0.066	100.08	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136		NA															
137		NA															
138	0.01	D	0.080	101	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	TPP
139		NA															
140	0.01	ND															
141		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Cadusafos																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
142		NA															
143		NA															
144	0.01	D	0.11	102.5	No												
145	0.01	D	0.062	91	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
146	0.006	D	0.0873	94	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148		NA															
149		NA															
150		NA															
151	0.01	D	0.066	90	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153		NA															
154		NA															
155	0.01	D	0.065	103	No	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.01	D	0.066	79	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	
157	0.01	D	0.046	81	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158		NA															
159	0.01	D	0.0589	94.9	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.0555	90.7	No	AcN			10	No		Standard addition		MS/MS (QQQ)	none	Rec. from same batch	
162	0.01	D	0.045	101	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD		none	Rec. from validation data	
163		NA															
164		NA															
165		NA															
166	0.01	D	0.082	87.1	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from same batch	TPM, TPP
167	0.01	D	0.051	113	No	AcN			15	No	SPE	Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Cyprodinil																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.222		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		
002	0.01	D	0.178	82	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.248	98.9	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.268	89	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)	MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.239	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.246	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007		NA															
008		NA															
009	0.01	D	0.278	101	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010		NA															
011	0.01	D	0.237	95	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.30	91	No	AcN			10	Yes	PSA	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
013	0.02	D	0.250	119	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
014	0.01	D	0.187	94.2	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.186	101	No	EtOAc			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.226	99	No	AcN			10		DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	
017	0.01	D	0.215	95	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.257	98	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.255	93.3	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020	0.01	D	0.175	71.0	No	EtOAc			15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.232	99	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
022	0.01	D	0.118	73	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP, Quintozene
023	0.01	D	0.332	85	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.01	D	0.246	95.7	No	EtOAc			10	No		Matrix matched - Multiple level	NPD			Rec. from validation data	
025	0.01	D	0.296	83	No	Acetone	DCM		15	No		Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
026	0.01	D	0.25	108	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB20
027	0.01	D	0.371	100	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
028	0.01	D	0.235	110	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.178	99	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031	0.05	D	0.340	110	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
032	0.005	D	0.584		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.225	91	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.258	111	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.180	90	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.275		No	AcN			10		DSPE	Matrix matched - Multiple level					TPP
037	0.01																
038	0.01	D	0.274	98	No	Acetone	Cyclohexane	EtOAc	75	Yes	GPC	Matrix matched - Multiple level	NPD		GC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.272	104.2	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.248	86	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
042	0.01	D	0.281	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.01	D	0.247	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044	0.02	D	0.271	88	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	
045	0.01	D	0.205	47.8	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.251	92.1	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	NPD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Cyprodinil

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047	0.01	D	0.259	92.1	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
048	0.01	D	0.295	93	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049	0.01	D	0.24	89.3	No	AcN			10		DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
050	0.01	D	0.282	100.3	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	Linuron-D6
051	0.01	D	0.31		No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT			Rec. from same batch	
052	0.01	D	0.353	99	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053	0.01	D	0.289	80	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.252	92	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Orbitrap	Rec. from same batch	TPP
055	0.01	D	0.341	90	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.284	94	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
057	0.1	D	0.18	100	No	AcN			10.10	No	DSPE	Matrix matched - Multiple level	NPD		GC-MS	Via Standard addition	
058	0.01	D	0.242	83	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.005	D	0.263	103	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.238	100	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.199	94	No	EtOAC			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.22	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.297	86.7	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	TPP
064	0.01	D	0.0875	73	Yes	EtOAC			15	No		Matrix matched - Multiple level	GC-IT-MS/MS		GC-IT-MS/MS	Rec. from same batch	
065		NA															
066	0.01	D	0.212	98	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068	0.01	D	0.20	98	No	Acetone	MeOH		50		SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	Fenclorfos
069		NA															
070	0.01	D	0.26	97	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.262	110	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.325	99	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.281	105	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074	0.01	D	0.289	80	No	AcN			10			Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	Etion
075	0.01	D	0.269	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076	0.005	D	0.239	79.7	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level			LC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.01	D	0.227	97	No	EtOAC			50	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
078	0.01	D	0.196	81	No	EtOAC			10	Yes	Filtration	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.249	90	No	AcN			10		DSPE	Matrix matched - Single level	ECD+NPD		GC-MS/MS (QQQ)	Rec. from same batch	
081	0.01	D	0.274	92.6	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-Methyl
082	0.01	D	0.194	89	No	EtOAC			10	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
083	0.05	D	0.21	72	No	DCM			10	No		Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	Ethion
084	0.01	D	0.224	98	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Anthracene
085	0.01	D	0.256	122	No	EtOAC			10	No	SPE	Pure solvent - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	Anthracene
086	0.01	D	0.178	78	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.316	121	No	EtOAC			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28
088	0.01	D	0.207	90	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Caffeine
089		NA															
090	0.03	D	0.28	85.7	No	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	NPD		GC/NPD	Rec. from validation data	
091	0.01	D	0.240	95	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	NPD		Two columns	Rec. from validation data	
092	0.01	D	0.259	106	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl
093	0.01	D	0.237	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Terbuthylazin-D5
094	0.01	D	0.262	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Cyprodinil																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095		NA															
096	0.01	D	0.222	89	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.276	102	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098	0.01	D	0.216	109.3	No	AcN	Acetic Acid		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
099	0.01	D	0.247	100	No	AcN			5	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	PCB-31
100	0.01	D	0.223	90.05	No	AcN			15.0	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
101	0.01	D	0.226	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.198	101	No	AcN			10	No	DSPE	Matrix matched - Single level	MS/MS (IT)			Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.268	104	No	DCM/Acetone			5	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
104	0.05	D	0.176	94.27	No	EtOAc			25	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
105	0.01	D	0.267	99	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.02	D	0.327	100	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT		GC-MS/MS (ITD)	Rec. from same batch	TPP
107	0.01	D	0.242	108	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
108	0.01	D	0.231	90	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.192	89.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
110	0.01	D	0.296	105,8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.326	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.270	104	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
114	0.01	D	0.303	91	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
115		NA															
116	0.01	D	0.232	80	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.295	103	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.251	80	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.240	106	No	AcN	AcN		10	No	DSPE	Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	TPP
120	0.01	D	0.243	88	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121	0.02	D	0.173	77	No	EtOAc			50	No		Matrix matched - Multiple level	GC/MS		GC-MS		
122		NA															
123	0.01	D	0.350	98	No	AcN			10	No		Matrix matched - Multiple level	MSD	Diode Array Detector		Rec. from validation data	
124	0.025	D	0.255	96	No	Acetone	DCM	EtOAc	100	No	GPC	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
125	0.01	D	0.264	68	Yes	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Via Standard addition	TPP
126	0.01	D	0.294	95	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.175	86	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.233	86	No	Acetone	DCM	Ptr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.153	70-120	No	EtOAc			10			Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP
130	0.01																
131	0.01	D	0.20	110	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132	0.01	D	0.161	80	No	EtOAc			20	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
133	0.01	D	0.271	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.01	D	0.267		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS		
135	0.01	D	0.269	101.0	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	0.39	86	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=Tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.210	87.0	No	AcN			10	No	SPE	Pure solvent - Multiple level	IDT		LC-MS/MS (QQQ)	Rec. from same batch	Trichloronate
138	0.01	D	0.274	104	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															
140	0.01	D	0.14	91	No	AcN			10		DSPE						

APPENDIX 7. Methods used by participants for determining pesticides.

Cyprodinil																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
141	0.01	ND															
142		NA															
143	0.01	D	0.212	85	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level	TOF		GC-TOF	Rec. from same batch	
144	0.01	D	0.33	107	Yes												
145	0.01	ND															
146	0.01	D	0.335	94	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.24	97	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	D	0.23	88	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD			Via Standard addition	Aldrin
150	0.01	D	0.228	-	No	EtOAc	EtOAc		20	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		Fenchlorphos
151	0.01	D	0.382	100	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	
152	0.02	ND															
153		NA															
154	0.01	D	0.18	90	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
155	0.01	D	0.226	109	No	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.04	D	0.235	84	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
157	0.01	D	0.266	82	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158		NA															
159	0.01	D	0.207	94.1	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.179	86.0	No	Acetone	DCM	Petr. Ether 40-60	12	No		Matrix matched - Multiple level	NPD		GC-TOF	Rec. from same batch	
162	0.05	D	0.344	94	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.01	D	0.18	88	No	AcN			15		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
166		NA															
167	0.01	D	0.211	119	No	AcN			15	No	SPE	Pure solvent - Multiple level	NPD	Diode Array Detector	GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Diazinon																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.035		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		
002	0.01	D	0.0382	77	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.0525	101.4	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.0469	74	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.051	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.0552	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	
007	0.02	D	0.028	97	No	EtOAc			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
008	0.01																
009	0.01	D	0.0553	102	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010	0.01	D	0.038	100	No	Acetone	DCM	Petr. Ether	7.50	No		Matrix matched - Single level	NPD		Two columns	Rec. from validation data	
011	0.01	D	0.049	87	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.069	98	No	AcN			10	Yes	PSA	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
013	0.02	D	0.041	83.5	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		GC-MS	Rec. from validation data	
014	0.01	D	0.037	86.9	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.0384	105	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.073	103	No	AcN			10		DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	
017	0.01	D	0.053	108	No	AcN			15	No	SPE	Matrix matched - Single level	MSD		GC-MS	Rec. from same batch	TDCPP
018	0.002	D	0.063	95	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
019	0.01	D	0.072	109.8	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-209
020	0.01	D	0.036	87.3	No	EtOAc			15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.057	107	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
022	0.01	D	0.0368	70	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP, Quintozene
023	0.01	D	0.057	99	No	Acetone			50	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
024	0.01	D	0.050	88	No	EtOAc			10	No		Matrix matched - Multiple level	NPD			Rec. from validation data	
025	0.01	D	0.058	86	No	Acetone	DCM		15	No		Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	
026	0.01	D	0.052	89	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.0524	101	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
028	0.01	D	0.049	88	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.051	97	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030	0.01	D	0.062	109	No	AcN	Water		10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
031	0.01	D	0.068	118	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
032	0.01	D	0.056		No	AcN			15	No	DSPE	Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.055	84	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP
034	0.01	D	0.054	114	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.0394	92	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.054		No	AcN			10		DSPE	Matrix matched - Multiple level	FPD				TPP
037	0.01																
038	0.01	D	0.057	84	No	Acetone	Cyclohexane	EtOAc	75	Yes	GPC	Matrix matched - Multiple level	NPD		GC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.0563	96.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-TSD	Rec. from same batch	
040	0.01																
041	0.01	D	0.052	70	No	EtOAc			25	No	Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
042	0.01	D	0.0672	69	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.01	D	0.058	100.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044	0.02	D	0.0396	85	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	
045	0.01	D	0.045	78	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.064	95.4	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	NPD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Diazinon																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047	0.01	D	0.0473	93.5	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
048	0.01	D	0.072	96	No	AcN			10	No	DSPE	Pure solvent - Single level	MSD		GC-MS	Rec. from same batch	
049	0.01	D	0.03	92.9	No	AcN			10		DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
050	0.01	D	0.0655	102.0	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-TOF	Rec. from same batch	Triphenylmethan
051	0.01	D	0.06		No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT			Rec. from same batch	
052	0.01	D	0.062	96	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053	0.01	D	0.069	80	No	AcN			10	No		Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via isotope labelled ISTD	Parathion Methyl-D6
054	0.01	D	0.057	84	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	TPP
055	0.01	D	0.065	85	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.058	81	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
057	0.04	D	0.061	100	No	AcN			10.10	No	DSPE	Matrix matched - Multiple level	NPD		GC-MS	Via Standard addition	
058	0.01	D	0.0451	99	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.01	D	0.061	107	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.053	96	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.039	72	No	EtOAc			10	Yes	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Trifluralin-D14
062	0.01	D	0.050	103	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.0600	90.9	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	TPP
064	0.01	D	0.0312	90	Yes	EtOAc			15	No		Matrix matched - Multiple level	GC-IT-MS/MS		GC-IT-MS/MS	Rec. from same batch	
065	0.01	D	0.058	90	Yes	Acetone	DCM		5	No	SPE	Standard addition	ECD		Two columns	Rec. from validation data	
066	0.01	D	0.048	93	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068	0.01	D	0.048	89	No	Acetone	MeOH		50		SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	Fenclorfos
069	0.01	D	0.07	57	Yes	AcN			20.07	No	DSPE	Pure solvent - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
070	0.01	D	0.055	95	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.064	117	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level	TOF			Rec. from same batch	TPP
072	0.01	D	0.0701	103	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.055	77	No	AcN			10	No		Pure solvent - Multiple level	FPD		GC-MS	Rec. from same batch	
074	0.01	D	0.047	78	No	AcN			10			Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	Etion
075	0.01	D	0.052	86	No	Acetone	DCM	Petr. Ether	7.5	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)			Via Standard addition	TPP
076	0.005	D	0.021	87.8	No	AcN			15	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.01	D	0.0475	91	No	EtOAc			50	Yes	GPC	Matrix matched - Multiple level	FPD	MS/MS (QQQ)	GC-MS	Rec. from same batch	
078	0.01	D	0.0409	82	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079	0.01	D	0.051	102	Yes	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	a-HCH-D6
080	0.01	D	0.052	100	No	AcN			10		DSPE	Matrix matched - Single level	ECD+NPD		GC-MS/MS (QQQ)	Rec. from same batch	
081	0.01	D	0.052	88.4	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-Methyl
082	0.01	D	0.040	100	No												
083	0.02	D	0.044	70	No	DCM			10	No		Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	Ethion
084	0.01	D	0.042	93	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.050	110	No	EtOAc			10	No	SPE	Pure solvent - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	Anthracene
086	0.01	D	0.040	72	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.0554	102	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28
088	0.01	D	0.045	85	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Caffeine
089		NA															
090	0.01	D	0.06	85.4	No	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	NPD		GC/NPD, GC/ECD	Rec. from validation data	
091	0.01	D	0.065	95	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	NPD		Two columns	Rec. from validation data	
092	0.01	D	0.058	100.4	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl
093	0.01	D	0.0577	78.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Diazinon-D10
094	0.01	D	0.0684	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Diazinon																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095	0.02	D	0.0451	81	No	EtOAc			50	No	GPC	Pure solvent - Multiple level	NPD		Two columns	Rec. from same batch	
096	0.01	D	0.051	95	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.078	91	No	AcN			1	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
098	0.01	D	0.0445	116	No	AcN	Acetic Acid		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
099	0.01	D	0.05	100	No	AcN			5	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	PCB-31
100	0.01	D	0.0494	90.2	No	AcN			15.0	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
101	0.01	D	0.0495	109	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.061	99	No	AcN			10	No	DSPE	Matrix matched - Single level	MS/MS (IT)			Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.071	110	No	DCM/Acetone			5	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
104	0.01	D	0.043	105.46	No	EtOAc			25	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
105	0.01	D	0.0625	99	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.01	D	0.061	100	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT		GC-MS/MS (ITD)	Rec. from same batch	TPP
107	0.01	D	0.051	94	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
108	0.01	D	0.0529	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.0589	120.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
110	0.01	D	0.048	83,1	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111	0.02	D	0.080	111	No	EtOAc			50.00	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
112	0.01	D	0.061	94	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.055	101	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD/NPD		Two columns	Rec. from same batch	
114	0.01	D	0.0860	100	Yes	AcN			1	Yes	Thermal desorption	Standard addition	MSD		GC-MS	Via Standard addition	
115	0.01	D	0.05	90	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
116	0.01	D	0.05	90	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.0449	98	No	EtOAc			30	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Tetraphenylethylene
118	0.01	D	0.053	74	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.056	100	No	AcN	AcN		10	No	DSPE	Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	TPP
120	0.01	D	0.058	89	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121	0.02	D	0.0240	83	No	EtOAc			50	No		Matrix matched - Multiple level	GC/MS		GC-MS		
122	0.01	D	0.063	118	Yes	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
123	0.01	D	0.055	93.9	No	AcN			10	No		Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	
124	0.01	D	0.055	97	No	Acetone	DCM	EtOAc	100	No	GPC	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
125	0.01	D	0.0351	58	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Via Standard addition	TPP
126	0.01	D	0.0680	120	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.102	109	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.0435	84	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.029	70-120	No	EtOAc			10			Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP
130	0.01																
131	0.01	D	0.056	70	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS ion trap			Rec. from same batch	TPP
132	0.01	D	0.0445	101	No	EtOAc			20	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
133	0.01	D	0.0497	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.01	D	0.07		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS		
135	0.01	D	0.0490	84.0	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	0.10	82	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.048	97.2	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT			Rec. from same batch	Trichloronate
138	0.01	D	0.067	101	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139	0.01	D	0.044	Std add	No	EtOAc			10	No	SPE	Standard addition	MSD		GC-MS	Via Standard addition	Diphenyl-D10
140	0.01	D	0.045	89	No	AcN			10		DSPE						

APPENDIX 7. Methods used by participants for determining pesticides.

Diazinon																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
141		NA															
142	0.01	D	0.032	80.6	Yes	Acetone	DCM		15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
143	0.01	D	0.035	90	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
144	0.01	D	0.077	109	No												
145	0.01	D	0.041	73	No	AcN			10	No	DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	TPP
146	0.01	D	0.0835	109	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147	0.01	D	0.036	92.7	No	EtOAc			25.0				NPD			Via Standard addition	
148	0.01	D	0.05	98	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	D	0.075	84	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	Desethylatrazine
150	0.01	D	0.0435	-	No	EtOAc	EtOAc		20	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		Fenchlorphos
151	0.01	D	0.039	105	Yes	AcN			10	No	DSPE	Standard addition	MS/MS (QQQ)		GC-MS	Via Standard addition	
152		NA															
153	0.01	D	0.052	91.9	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
154	0.01	D	0.058	84	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
155	0.01	D	0.054	106	No	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.01	D	0.047	77	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	
157	0.01	D	0.053	92	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158	0.01	D	0.0670	104	No	AcN			10	No	DSPE	Standard addition	MSD		GC-MS	Via Standard addition	Tris(2-cloro(clorometil)etilfosfato)
159	0.01	D	0.0433	91.3	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.0553	86.3	No	Acetone	DCM	Petr. Ether 40-60	12	No		Matrix matched - Multiple level	NPD		GC-TOF	Rec. from same batch	
162	0.05	D	0.075	98	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163	0.01	D	0.0672	44	Yes	Acetone	DCM		100		GPC	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	
164		NA															
165	0.01	D	0.05	114	No	AcN			15		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
166	0.01	D	0.061	88.6	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from same batch	TPM, TPP
167	0.01	D	0.051	118	No	AcN			15	No	SPE	Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	
168	0.01	D	0.049	100	No	AcN			15	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Diphenylamine																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.154		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		
002	0.01	D	0.141	76	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.196	94.8	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.174	71	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.02	D	0.167	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.197	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007		NA															
008	0.01																
009	0.01	D	0.230	99	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010		NA															
011	0.01	D	0.163	85	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.22	106	No	AcN			10	Yes	PSA	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
013		NA															
014	0.01	D	0.112	74.2	No	Acetonitrile			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.142	96	No	EtOAc			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
016		NA															
017	0.01	D	0.165	107	No	AcN			15	No	SPE	Matrix matched - Single level	MSD		GC-MS	Rec. from same batch	TDCPP
018	0.002	D	0.252	94	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
019	0.01	D	0.326	137	Yes	AcN	Acetonitrile		10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-209
020		NA															
021	0.01	D	0.139	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
022		NA															
023	0.01	D	0.195	99	No	Acetone			50	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
024	0.05	D	0.210	92.3	No	EtOAc			10	No		Matrix matched - Multiple level	NPD		GC-MS	Rec. from validation data	
025	0.01	D	0.258	80	No	Acetone	DCM		15	No		Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
026	0.01	D	0.18	119	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.278	107	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
028	0.01	D	0.158	88	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.122	77	Yes	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS		
030		NA															
031	0.2	ND															
032	0.005	D	0.289		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.149	91	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP
034	0.01	D	0.159	104	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
035	0.01	D	0.141	96	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.246		No	AcN			10		DSPE	Matrix matched - Multiple level					TPP
037		NA															
038	0.01	D	0.234	90	No	Acetone	Cyclohexane	EtOAc	75	Yes	GPC	Matrix matched - Multiple level	NPD		GC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.225	105.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
040	0.01																
041		NA															
042	0.01	D	0.292	116	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.02	D	0.238	102	No	MeOH	DCM	Cyclohexan/EtOAC	50	No	GPC	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	TPP
044	0.02	D	0.182	80	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	
045	0.01	D	0.145	92.8	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.193	72.4	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	NPD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Diphenylamine																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047	0.01	D	0.139	93.9	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
048	0.01	D	0.236	96	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049		NA															
050	0.01	D	0.220	98.4	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	Triphenylmethan
051		NA															
052	0.01	D	0.160	95	No	AcN			10		DSPE	Matrix matched - Multiple level	TOF		GC-MS	Via Standard addition	Chlorpyrifos-D10
053	0.05	D	0.348	70	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.188	86	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	Tributylphosphat
055	0.01	D	0.238	92	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.255	46	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
057	0.2	ND															
058	0.01	D	0.185	89	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
059	0.01	D	0.197	105	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.206	97	No	AcN			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Chlopyrifos-D10
061	0.01	D	0.156	76	No	EtOAc			10	Yes	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Trifluralin-D14
062	0.01	D	0.18	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.264	104.4	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
064		NA															
065	0.01	ND															
066	0.01	D	0.196	89	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068	0.01	D	0.15	89	No	Acetone	MeOH		50		SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	Fenclorfos
069		NA															
070	0.01	D	0.16	77	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF		GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.330	105	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level	TOF			Rec. from same batch	TPP
072	0.01	D	0.215	96	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.175	90	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074	0.01	D	0.244	74	No	AcN			10			Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	Etion
075	0.01	D	0.210	83	No	Acetone	DCM	Petr. Ether	7.5	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)			Via Standard addition	TPP
076		NA															
077	0.01	D	0.139	80	No	EtOAc			50	Yes	GPC	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	
078	0.01	D	0.141	76	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.211	92	No	AcN			10		DSPE	Matrix matched - Single level	ECD+NPD		GC-MS/MS (QQQ)	Rec. from same batch	
081	0.01	D	0.201	78.3	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-methyl
082		NA															
083	0.05	D	0.097	62	No	DCM			10	No		Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	Ethion
084	0.01	D	0.146	100	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Anthracene
085	0.01	D	0.138	98	No	EtOAc			10	No	SPE	Pure solvent - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	Anthracene
086	0.01	D	0.151	74	No	AcN			20	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.220	112	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28
088	0.01	D	0.176	90	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Caffeine
089		NA															
090		NA															
091	0.01	D	0.188	78	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	NPD		Two columns	Rec. from validation data	
092	0.01	D	0.195	99.1	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Trcilosan-methyl
093	0.01	D	0.211	96.7	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Lindane-D6
094	0.01	D	0.297	112	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Diphenylamine																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095		NA															
096	0.01	D	0.142	127	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
097	0.01	D	0.238	93	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.214	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	Sulfotep
100	0.01	D	0.160	86.93	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	MSD			Rec. from validation data	
101	0.01	D	0.196	108	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.114	65	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.206	98	No	DCM-Acetone			5	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
104	0.05	D	0.135	84.65	No	EtOAc			25	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
105	0.01	D	0.235	98	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.05	D	0.267	100	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT		GC-MS/MS (ITD)	Rec. from same batch	TPP
107	0.01	D	0.171	94	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
108	0.01	D	0.120	65	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.211	109.9	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
110		NA															
111		NA															
112	0.01	D	0.248	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.190	77.4	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
114	0.01	D	0.312	100	Yes	AcN			1	Yes	Thermal desorption	Standard addition	MSD		GC-MS	Via Standard addition	
115		NA															
116	0.01	D	0.195	70	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.167	101	No	EtOAc			30	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Tetraphenylethylene
118	0.01	D	0.263	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.089	106	No	AcN	AcN		10	No	DSPE	Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	TPP
120	0.01	D	0.182	100	No	AcN			10	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	TDCP
121	0.05	D	0.111	97	No	EtOAc			50	No		Matrix matched - Multiple level	GC/MS		GC-MS		
122		NA															
123	0.01	D	0.190	100	No	AcN			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	
124	0.025	D	0.203	98	No	Acetone	DCM	EtOAc	100	No	GPC	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
125	0.01	D	0.219	61	Yes	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Via Standard addition	TPP
126	0.01	D	0.262	110	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.143	105	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.159	91	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS	Rec. from same batch	
129	0.01	D	0.076	70-120	No	EtOAc			10			Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP
130	0.01																
131	0.01	D	0.13	60	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS ion trap			Rec. from same batch	TPP
132	0.01	D	0.152	98	No	EtOAc			20	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
133	0.01	D	0.107	97	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.01	D	0.209		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS		
135	0.01	D	0.190	92.6	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		GC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	0.34	80	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level	MSD		GC-MS	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.188	85.5	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT			Rec. from same batch	Trichloronate
138	0.01	D	0.204	99	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	TPP
139		NA															
140	0.01	D	0.17	93	No	AcN			10		DSPE						

APPENDIX 7. Methods used by participants for determining pesticides.

Diphenylamine																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
141	0.01	ND															
142	0.02	D	0.107	88.2	Yes	Acetone	DCM		15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
143		NA															
144	0.01	D	0.13	75	No												
145		NA															
146	0.01	D	0.245	100	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Single level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.22	95	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfoss
149	0.01	D	0.17	75	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD			Via Standard addition	Aldrin
150		NA															
151	0.01	D	0.164	115	Yes	AcN			10	No	DSPE	Standard addition	MS/MS (QQQ)		GC-MS	Via Standard addition	
152		NA															
153		NA															
154		NA															
155	0.01	D	0.112	106	No	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.04	D	0.184	80	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
157	0.01	D	0.227	71	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158	0.01	D	0.341	76	No	AcN			10	No	DSPE	Standard addition	MSD		GC-MS	Via Standard addition	Tris(2-cloro(clorometil)etilfosfato)
159		NA															
160		NA															
161	0.01	D	0.129	85.6	No	Acetone	DCM	Petr. Ether 40-60	12	No		Matrix matched - Multiple level	NPD		GC-TOF	Rec. from same batch	
162	0.05	D	0.084	72	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.01	D	0.14	128	No	AcN			15		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
166		NA															
167	0.01	D	0.18	98	No	AcN			15	No	SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Fludioxonil																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.204		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.126	89	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.165	97.1	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.150	98	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.175	99	No	AcN			10	No	DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.152	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007	0.02	D	0.12	71	No	EtOAc			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
008		NA															
009	0.01	D	0.180	98	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010		NA															
011	0.01	D	0.171	96	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.17	78	No	AcN			10	Yes	PSA	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
013	0.05	D	0.166	114	No	Acetone	DCM	Petr. Ether	15		Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
014	0.004	D	0.123	96.2	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
015	0.01	D	0.141	102	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.202	101	No	AcN			10		DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	
017	0.01	D	0.123	96	No	AcN			15	No	SPE	Matrix matched - Single level	MSD		GC-MS	Rec. from same batch	TDCPP
018	0.002	D	0.209	99	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.155	90.6	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
020	0.01	D	0.096	76.1	No	EtOAc			15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.174	94	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
022	0.05	D	0.230	70	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP, Quintozene
023	0.01	D	0.212	96	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.03	D	0.186	89.6	No	EtOAc			10	No		Matrix matched - Multiple level	NPD		GC-MS	Rec. from validation data	
025	0.01	D	0.178	90	No	Acetone	DCM		15	No		Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
026	0.01	D	0.191	95	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.416	105	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
028	0.01	D	0.106	72	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.129	93	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031	0.05	D	0.168	87	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
032	0.01	D	0.268		No	AcN			15	No	DSPE	Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.155	94	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.188	129	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.135	94	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
036	0.01	D	0.278		No	AcN			10		DSPE	Matrix matched - Multiple level					TPP
037	0.01																
038	0.01	D	0.175	87	No	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.189	101.8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.182	63	No	EtOAc			25	No	Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		Two columns	Rec. from validation data	
042	0.01	D	0.220	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.01	D	0.171	88.4	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Nicarbazin
044	0.02	D	0.143	86	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	
045	0.01	D	0.116	72.6	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.171	97.4	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	NPD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Fludioxonil

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047	0.01	D	0.164	92.6	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
048	0.01	D	0.206	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049	0.01	D	1.17	90.0	No	AcN			10		DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
050	0.01	D	0.176	96.3	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	Triphenylmethan
051	0.01	D	0.17		No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT			Rec. from same batch	
052	0.01	D	0.197	85	No	AcN			10		DSPE	Matrix matched - Multiple level		ITQ	LC-Q-TOF	Via Standard addition	Nicarbazin
053	0.01	D	0.201	80	No	AcN			10	No	none	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.175	75	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	TPP
055	0.01	D	0.209	94	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.207	85	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
057	0.06	D	0.24	100	No	AcN			10.10	No	DSPE	Matrix matched - Multiple level	NPD		GC-MS	Via Standard addition	
058	0.01	D	0.185	115	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
059	0.006	D	0.192	102	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.154	94	No	AcN			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Chlopyrifos-D10
061	0.01	D	0.180	71	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.080	75	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.193	105.8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	TPP
064	0.01	D	0.113	95	Yes	EtOAc			15	No		Matrix matched - Multiple level	GC-IT-MS/MS		GC-IT-MS/MS	Rec. from same batch	
065	0.01	D	0.18	93	Yes	Acetone	DCM		5	No	SPE	Standard addition	NPD		Two columns	Rec. from validation data	
066	0.02	D	0.181	97	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068	0.01	D	0.16	85	No	Acetone	MeOH		50		SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	Fenclorfos
069		NA															
070	0.01	D	0.17	96	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.215	103	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.305	91	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.165	95	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074	0.01	D	0.186	108	No	AcN			10			Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	Etion
075	0.01	D	0.231	95	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076		NA															
077	0.01	D	0.153	96	No	EtOAc			50	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
078	0.01	D	0.126	84	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.230	98	No	AcN			10		DSPE	Matrix matched - Single level	ECD+NPD		GC-MS/MS (QQQ)	Rec. from same batch	
081	0.01	D	0.166	92.0	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-methyl
082	0.01	D	0.104	118	No												
083	0.05	D	0.14	82	No	DCM			10	No		Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	Ethion
084	0.01	D	0.139	97	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Anthracene
085	0.01	D	0.127	74	No	EtOAc			10	No	SPE	Pure solvent - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	Anthracene
086	0.01	D	0.137	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.187	108	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28
088	0.01	D	0.134	70	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Caffeine
089		NA															
090	0.05	D	0.17	88.3	No	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	NPD		GC/NPD, GC/ECD	Rec. from same batch	
091		NA															
092	0.01	D	0.135	74.3	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl
093	0.01	D	0.174	98.7	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	ChlorpyriphosMe-D6
094	0.01	D	0.192	114	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Fludioxonil

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095		NA															
096	0.01	D	0.201	113	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
097	0.01	D	0.180	90	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098	0.01	D	0.111	100.7	No	AcN	Acetic Acid		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
099	0.01	D	0.159	100	No	AcN			5	No	DSPE	Standard addition	MS/MS (QQQ)		GC-MS	Via Standard addition	PCB-31
100	0.01	D	0.157	91.26	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	MSD			Rec. from validation data	
101	0.01	D	0.168	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.151	107	No	AcN			10	No	DSPE	Matrix matched - Single level	MS/MS (IT)			Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.2	104	No	DCM/Acetone			5	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
104	0.08	D	0.107	77.77	No	EtOAc			25	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
105	0.01	D	0.186	99	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106		NA															
107	0.01	D	0.146	94	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
108	0.01	D	0.143	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.159	106.8	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110		NA															
111		NA															
112	0.01	D	0.219	106	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.168	95	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
114	0.01	ND															
115	0.05	D	0.157	83	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
116	0.01	D	0.211	70	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.183	103	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.184	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.126	95	No	AcN	AcN		10	No	DSPE	Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	TPP
120	0.01	D	0.168	80	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	Nicarbazin
121		NA															
122		NA															
123	0.01	D	0.205	100	No	AcN			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	
124		NA															
125	0.01	D	0.116	111	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Via Standard addition	TPP
126	0.01	D	0.175	99	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.146	83	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.118	83	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.176	70-120	No	EtOAc			10			Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP
130		NA															
131	0.01	D	0.13	100	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS ion trap			Rec. from same batch	TPP
132		NA															
133	0.01	D	0.181	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.02	D	0.178		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS		
135	0.01	D	0.190	101.3	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	0.31	95	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.159	91.5	No	AcN			10	No	SPE	Pure solvent - Multiple level	IDT		LC-MS/MS (QQQ)	Rec. from same batch	Trichloronate
138	0.01	D	0.202	93	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															
140	0.01	D	0.135	92	No	AcN			10		DSPE						

APPENDIX 7. Methods used by participants for determining pesticides.

Fludioxonil																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
141	0.01	D	0.1	80	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD			Rec. from validation data	TPP
142		NA															
143		NA															
144	0.01	D	0.19	98	No												
145	0.01	D	0.091	90	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
146	0.01	D	0.203	114	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.17	97	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		none	Rec. from validation data	Ditalimfos
149	0.01	D	0.24	90	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	none	Via Standard addition	Desethylatrazine
150	0.01	D	0.146	-	No	EtOAc	EtOAc		20	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		Fenchlorphos
151	0.01	D	0.224	100	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153	0.01	D	0.171	86.0	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	
154		NA															
155	0.01	D	0.189	101	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
156	0.05	D	0.184	97	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
157	0.01	D	0.143	67	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158		NA															
159	0.01	D	0.161	99.3	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.143	108.8	No	AcN			10	No		Standard addition		MS/MS (QQQ)	none	Rec. from same batch	
162	0.05	D	0.258	71	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD		none	Rec. from validation data	
163		NA															
164		NA															
165	0.02	D	0.14	90	No	AcN			15		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
166		NA															
167	0.01	D	0.19	116	No	AcN			15	No	SPE	Pure solvent - Multiple level		Diode Array Detector	GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Flufenoxuron																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.671		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.317	78	No	EtOAc			10	No	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
003	0.01	D	0.564	none	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)			PCB-138
004	0.01	D	0.528	86	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
005	0.01	D	0.633	111	No	AcN			10					ITQ	LC-ITQ	Rec. from same batch	
006	0.01	D	0.445	Std add	Yes	EtOAc			15	No		Standard addition		MS/MS (QQQ)		Via Standard addition	
007		NA															
008		NA															
009	0.01	D	0.473	118	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
010		NA															
011	0.01	D	0.510	93.2	No	MeOH	Water		5	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
012		NA															
013		NA															
014	0.01	D	0.421	98.4	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
015	0.01	D	0.363	112	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016		NA															
017	0.01	D	0.428	83	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
018	0.002	D	0.514	100	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TRIS
019	0.01	D	0.492	100.9	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
020	0.01	D	0.298	119	Yes	AcN			15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.465	95	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
022		NA															Oxfendazole
023	0.1	D	0.345	71	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
024	0.02	D	0.443	96.9	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	
025	0.01	D	0.427	94	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	Isoproturon-D6
026	0.01	D	0.481	104	Yes	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Via Standard addition	
027	0.01	D	0.421	102	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
028	0.01	D	0.204	56	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
029	0.01	D	0.362	100	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031		NA															
032	0.005	D	1.16		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.398	95	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.543	110	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.477	90	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
036	0.01	D	0.421		No	AcN			10		SPE	Matrix matched - Multiple level		MS/MS (QQQ)			
037	0.01																
038	0.01	D	0.544	92	No	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.511	98.2	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041		NA															Tris(1,3-dichlorisopropyl)phosphat
042	0.03	D	0.393	91	No	AcN			10	No	DSPE	Matrix matched - Multiple level		Orbitrap		Rec. from same batch	TPP
043	0.01	D	0.472	79.9	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
044		NA															
045	0.01	D	0.568	102	No	AcN			5	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Flufenoxuron																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
046		NA															
047	0.01	D	0.49	91.3	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
048	0.01	D	0.706	92	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049		NA															
050	0.01	D	0.564	106.5	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	Linuron-D6
051		NA															
052	0.01	D	0.572	114	No	AcN			10		DSPE	Matrix matched - Multiple level		ITQ	LC-Q-TOF	Via Standard addition	Nicarbazin
053	0.01	D	0.756	80	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.541	76	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Orbitrap	Rec. from same batch	TPP
055	0.01	D	0.538	98	Yes	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.454	96	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.519	95	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.005	D	0.574	102	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.539	96	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.460	84	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.53	108	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
063	0.01	D	0.503	90.7	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	TPP
064	0.01	D	0.351	90	Yes	AcN (1% Acetic Ac.)			15	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
065		NA															
066	0.02	D	0.765	70	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
067		NA															
068		NA															
069	0.01	D	59	7	Yes	AcN			20.07	No	DSPE	Pure solvent - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
070	0.01	D	0.58	87	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	TPP
071	0.01	D	0.531	97	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.580	85	No	AcN			10	No	DSPE	Pure solvent - Multiple level		Orbitrap	LC-Orbitrap	Rec. from validation data	Flucycloxuron
073	0.01	D	0.585	105	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074	0.01	D	0.287	79	No	AcN			10			Pure solvent - Multiple level	ECD		GC-MS	Rec. from same batch	Etion
075	0.01	D	0.565	115	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076	0.01	D	0.487	79.3	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level			LC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.01	D	0.476	95	No	EtOAc			50	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
078	0.01	D	0.492	87	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.461	87	No	AcN			10		DSPE	Matrix matched - Single level		Diode Array Detector	LC-MS	Rec. from same batch	
081	0.01	D	0.421	94.8	No	MeOH	DCM		5	Yes	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-D3
082		NA															
083		NA															
084	0.01	D	0.469	92	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.556	82	No	EtOAc			10	No	SPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	Isoproturon-D6
086	0.01	D	0.068	71	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS	LC-MS	Rec. from same batch	TDCPP
087	0.01	D	0.487	100	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP-D15
088	0.01	D	0.529	108	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13
089		NA															
090		NA															
091		NA															
092	0.01	D	0.545	107.2	No	MeOH	DCM		10	Yes	ChemElut	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
093	0.01	D	0.609	109	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Propiconazole-D5

APPENDIX 7. Methods used by participants for determining pesticides.

Flufenoxuron																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
094	0.01	D	0.510	104	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
095		NA															
096	0.01	D	0.525	95	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.652	102	No	AcN			1	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.496	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	Two columns	Via Standard addition	Sulfotep
100	0.01	D	0.379	88.97	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	MSD			Rec. from validation data	
101	0.01	D	0.474	96	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.434	93	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103		NA															
104		NA															
105	0.01	D	0.527	98	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106		NA															
107	0.01	D	0.471	99	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108	0.01	D	0.725	140	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.458	109.5	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110	0.01	D	0.491	94.1	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.754	99	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113		NA															
114	0.01	D	0.596	120	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
115		NA															
116		NA															
117	0.01	D	0.415	101	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.577	70	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
119		NA															
120	0.01	D	0.390	100	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121		NA															
122		NA															
123	0.01	D	0.535	98	No	AcN			10	No	SPE	Matrix matched - Multiple level		Diode Array Detector	GC-MS	Rec. from validation data	
124		NA															
125		NA															
126	0.01	D	0.440	115	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.02	D	0.220	80	No	AcN			10		SPE	Matrix matched - Multiple level		MS	LC-MS	Rec. from same batch	
128	0.01	D	0.503	90	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.302	70-120	No	EtOAc			10			Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
130		NA															
131	0.01	D	0.55	140	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132	0.01	D	0.412	74	No	EtOAc			20	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
133		NA															
134	0.01	D	0.435		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
135	0.01	D	0.432	117.0	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	Standard addition	Rec. from validation data	
136	0.01	D	1.82	89	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.589	96.2	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	none	Rec. from same batch	TPP
138	0.01	D	0.408	98	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	TPP
139		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Flufenoxuron																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
140	0.01	ND															
141		NA															
142		NA															
143	0.01	D	0.543	84	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
144	0.01	D	0.64	104	No												
145	0.01	D	0.361	83	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
146	0.01	D	0.511	96	No	Acetone			20	No	Liquid/liquid partitioning	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148		NA															
149	0.01	D	0.46	95	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	Desethylatrazine
150		NA															
151	0.01	D	0.376	98	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153		NA															
154		NA															
155	0.01	D	0.408	94	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
156		NA															
157	0.01	D	1.581	106	No	AcN			10.00	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
158		NA															
159		NA															
160		NA															
161	0.01	D	0.547	99.8	No	AcN			10	No		Standard addition		MS/MS (QQQ)		Rec. from same batch	
162	0.01	D	0.349	73	No	AcN			12	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
163		NA															
164		NA															
165	0.01	D	0.42	89	No	AcN			15		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
166		NA															
167	0.01	D	0.464	103	No	AcN			15	No	SPE	Pure solvent - Multiple level		Diode Array Detector		Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Folpet																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.124		No	AcN			10	No	DSPE	Matrix matched - Multiple level	ECD		GC-MS/MS (QQQ)		
002	0.01	D	0.304	82	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.572	115	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.481	100	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-ECD	Rec. from same batch	PCB-138
005	0.02	D	0.432	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.421	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007	0.09	D	0.090	103	No	EtOAc			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
008		NA															
009	0.01	D	0.469	100	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010	0.01	D	0.436	111	No	Acetone	DCM	Petr. Ether	7.50	No		Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
011	0.01	D	0.309	80	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012		NA															
013		NA															
014	0.01	D	0.323	98.3	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.05	D	0.328	104	No	EtOAc			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
016		NA															
017	0.01	D	0.231	70	No	AcN			15	No	SPE	Matrix matched - Single level	MSD		GC-MS	Rec. from same batch	TDCPP
018	0.01	D	0.545	78	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
019		NA															
020		NA															
021	0.02	D	0.299	87	No	EtOAc			10	No		Matrix matched - Multiple level	ECD			Rec. from same batch	PCB-97
022	0.02	D	0.149	85	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP, Quintozene
023	0.02	D	0.306	84	No	Acetone			50	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
024	0.01	D	0.670	104.6	No	EtOAc			10	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from validation data	
025	0.01	D	0.441	93	No	Acetone	DCM		15	No		Matrix matched - Multiple level	ECD		GC-MS/MS (QQQ)	Rec. from same batch	
026	0.01	D	0.427	90	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.0799		No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)				
028	0.01	D	0.428	74	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029		NA															
030		NA															
031	0.05	D	0.439	85	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
032	0.01	D	0.291		No	AcN			15	No	DSPE	Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.508	73	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP
034	0.01	D	0.383	87	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
035	0.01	D	0.425	88	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	ND															
037	0.01																
038	0.01	D	0.563	80	No	Acetone	Cyclohexane	Ethyl Acetate	75	Yes	GPC	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
039	0.01	D	0.530	78.0	No	AcN			10	No	DSPE	Pure solvent - Multiple level	ECD		GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.427	70	No	Toluene	Isopropanol		25	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
042	0.01	D	0.243	70	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043		NA															
044		NA															
045	0.01	D	0.289	91.3	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.423	83.9	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	ECD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Folpet																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047	0.01	D	0.397	84.5	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
048	0.01	D	0.531	115	No	AcN			10	No	DSPE	Pure solvent - Single level	MSD		GC-MS	Rec. from same batch	
049		NA															
050	0.01	D	0.468	99.0	No	AcN			10	Yes	DSPE	Standard addition	MSD		GC-TOF	Rec. from same batch	Tris-(1,3-dichlorisopropyl)-phosphat
051		NA															
052	0.01	D	0.527	105	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-TOF	Via Standard addition	Chlorpyrifos-D10
053	0.01	D	0.0271	65	No	AcN			10	No		Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via isotope labelled ISTD	Parathion-methyl-D6
054	0.01	D	0.433	Std add	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	TPP
055	0.01	D	0.415	78	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.360	81	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
057		NA															
058		NA															
059	0.01	D	0.403	86	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.487	99	No	AcN			10	Yes		Standard addition	MS/MS (QQQ)		GC-TOF	Via isotope labelled ISTD	Folpet-D4
061	0.01	D	0.534	103	No	EtOAc			10	Yes	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Trifluralin-D14
062	0.01	D	0.30	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.535	89.9	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-ECD	Rec. from same batch	TPP
064		NA															
065	0.01	D	0.397	85	Yes	Acetone	DCM		5	No	SPE	Standard addition	ECD		Two columns	Rec. from validation data	
066	0.05	D	0.481	86	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068		NA															
069	0.01	ND															
070	0.01	D	0.42	74	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF		GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.510	100	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level	TOF			Rec. from same batch	TPP
072		NA															
073		NA															
074	0.01	ND															
075	0.01	D	0.465	80	No	Acetone	DCM	Petr. Ether	7.5	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-ECD	Via Standard addition	HCB
076	0.01	ND															
077	0.05	D	0.451	97	No												
078	0.05	D	0.288	70	No	EtOAc			10	Yes	GPC	Matrix matched - Single level	ECD		GC-MS/MS (QQQ)	Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.634	100	No	AcN			10		DSPE	Matrix matched - Single level	ECD+NPD		GC-MS/MS (QQQ)	Rec. from same batch	
081	0.01	D	0.396	77.7	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-methyl
082		NA															
083	0.05	D	0.24	108	No	DCM			10	No		Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Endosulfan Lactone
084	0.01	D	0.456	102	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Anthracene
085	0.01	D	0.441	95	No	EtOAc			10		SPE	Pure solvent - Multiple level	ECD		GC-MS	Rec. from same batch	Quintozene
086	0.01	D	0.275	92	No	AcN			20	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.505	103	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	Folpet-D4
088		NA															
089	0.01	D	0.38	98	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
090	0.05	D	0.43	122.2	Yes	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	ECD		GC/ECD	Rec. from validation data	
091	0.01	D	0.452	95	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
092	0.01	D	0.275	40	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl
093	0.01	D	0.893	80.9	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	ChlorpyriphosMe-D6
094	0.01	D	0.430	114	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Folpet																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095	0.05	D	0.245	114	No	EtOAc			50	No	GPC	Pure solvent - Multiple level	ECD		Two columns	Rec. from same batch	
096		NA															
097	0.01	D	0.431	96	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.377	100	No	AcN			5		DSPE	Standard addition	MS/MS (QQQ)		GC-MS	Via Standard addition	
100	0.02	D	0.517	114.8	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	MSD			Rec. from validation data	
101	0.01	D	0.258	70	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102		NA															
103		NA															
104	0.06	D	0.257	61.02	No	Isopropyl Alcohol	Toluene		25	No	SPE	Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
105	0.1	D	0.382	94	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.02	D	0.800	124	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT		GC-MS/MS (ITD)	Rec. from same batch	TPP
107		NA															
108		NA															
109	0.01	D	0.639	69.4	Yes	Acetone	DCM	Petr. Ether	20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
110		NA															
111	0.05	ND															
112	0.01	D	0.252	76	No	Acetone	Cyclohexane	EtOAc	100	No	GPC	Matrix matched - Single level	ECD		GC-MS	Rec. from validation data	
113	0.02	D	0.375	71.7	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
114	0.01	ND															
115		NA															
116	0.01	D	0.413	78	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.308	87	No	EtOAc			30	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Tetraphenylethylene
118	0.05	D	0.184	77	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.199	106	No	AcN	AcN		10	No	DSPE	Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Ethion
120	0.01	D	0.336	110	No	AcN			10		DSPE	Standard addition	MS/MS (QQQ)		GC-MS	Via Standard addition	
121	0.1	D	0.0303	101	No	EtOAc			50	No		Matrix matched - Multiple level	GC/MS		GC-MS		
122	0.01	D	0.588	89.5	Yes	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
123	0.01	D	0.496	103.5	No	AcN			10	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
124	0.01	D	0.597	79	Yes	Acetone	DCM	EtOAc	100	No	GPC	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
125		NA															
126	0.01	D	0.360	105	No	Hexane	Isooctane	Diisopropylether	20	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	Vinclozolin
127	0.05	D	0.140	73	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.370	91	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
129		NA															
130	0.01																
131	0.02	D	0.20	90	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS ion trap			Rec. from same batch	TPP
132		NA															
133	0.01	D	0.336	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134		NA															
135	0.01	D	0.340	96.7	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		GC-MS/MS (QQQ)	Rec. from same batch	
136		NA															
137	0.1	D	0.222	84.2	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT			Rec. from same batch	Trichloronate
138		NA															
139		NA															
140	0.01	D	0.425	90	No	AcN			10		DSPE						
141		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Folpet																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
142	0.02	D	0.298	81.5	Yes	Acetone	DCM		15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	TPP
143		NA															
144		NA															
145	0.01	D	0.836	73	No	AcN			10	No	DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	TPP
146	0.01	D	0.586	100	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Single level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
147	0.02	D	0.202	82	No	EtOAc			25.0				ECD			Via Standard addition	
148		NA															
149	0.01	D	0.24	90	No	AcN			10	Yes		Matrix matched - Multiple level	MSD			Via Standard addition	Aldrin
150	0.01	D	0.103	-	No	EtOAc	EtOAc		20	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		Fenchlorphos
151	0.01	D	0.458	100	Yes	AcN			10	No	DSPE	Standard addition	ECD		GC-MS	Via Standard addition	
152	0.02	D	1.204	194	No	Acetone	Cyclohexane		15	No	Liquid/liquid partitioning		ECD				
153		NA															
154	0.01	D	0.54	71	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
155	0.01	D	0.513	70	No	AcN			10	No	DSPE	Matrix matched - Single level	ECD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.05	D	0.410	70	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
157	0.01	D	0.549	90	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158	0.01	D	0.351	106	No	AcN			10	No	DSPE	Standard addition	MSD		GC-MS	Via Standard addition	Tris(2-cloro(clorometil)etilfosfato)
159		NA															
160		NA															
161	0.01	D	0.275	100.7	No	Acetone	DCM	Petr. Ether 40-60	6	No		Matrix matched - Multiple level	ECD		GC-TOF	Rec. from same batch	
162	0.05	D	0.609	73	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.02	D	0.25	50	No	AcN			15		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
166		NA															
167	0.01	D	0.328	109	No	AcN			15	No	SPE	Pure solvent - Multiple level	ECD		Two columns	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Indoxacarb																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.097		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.0568	70	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.0798	none	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)			TPP
004	0.01	D	0.671	100	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)	MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.076	87	No	AcN			10					MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
006	0.01	D	0.0760	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007		NA															
008		NA															
009	0.01	D	0.0780	100	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010	0.01	D	0.105	112	No	Acetone	DCM	Petr. Ether	7.50	No		Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
011	0.01	D	0.077	92.8	No	MeOH	Water		5	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
012	0.01	D	0.11	122	No	AcN			10	Yes	PSA	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
013		NA															
014	0.01	D	0.072	95.3	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.0631	97	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016		NA															
017	0.01	D	0.071	117	No	AcN			15	No	SPE	Matrix matched - Single level	MSD		GC-MS	Rec. from same batch	TDCPP
018	0.002	D	0.073	95	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.073	96.2	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020	0.01	D	0.049	82.2	No	EtOAc			15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.089	110	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	TPP
022		NA															
023	0.01	D	0.085	74	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.01	D	0.076	93.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	
025	0.01	D	0.075	99	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
026	0.01	D	0.077	97	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.0924	90	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
028	0.01	D	0.077	100	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
029	0.01	D	0.067	88	Yes	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS		
030		NA															
031	0.05	D	0.086	97	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
032	0.01	D	0.117		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.076	99	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.082	120	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.0660	91	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.105		No	AcN			10		SPE	Matrix matched - Multiple level		MS/MS (QQQ)			
037	0.01																
038	0.01	D	0.083	90	No	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.0904	92.2	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.087	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
042	0.01	D	0.0710	89	No	AcN			10	No	DSPE	Matrix matched - Multiple level		Orbitrap		Rec. from same batch	Tris(1,3-dichlorisopropyl)phosphat
043	0.01	D	0.086	88.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044		NA															
045	0.01	D	0.098	114	No	AcN			5	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Indoxacarb

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
046	0.01	D	0.085	96.9	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	ECD		Two columns		
047	0.02	D	0.0721	91.9	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
048	0.01	D	0.095	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049	0.01	D	0.26	109.0	No	AcN			10		DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
050	0.01	D	0.0972	100.7	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-TOF	Rec. from same batch	Linuron-D6
051	0.01	D	0.08		No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT			Rec. from same batch	
052	0.01	D	0.091	88	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053	0.01	D	0.084	90	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.100	89	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Orbitrap	Rec. from same batch	TPP
055	0.01	D	0.108	79	Yes	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.084	90	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.0811	90	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.005	D	0.104	96	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.087	100	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.075	102	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.09	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
063	0.01	D	0.0910	87.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	TPP
064	0.01	D	0.0617	109	Yes	EtOAc			15	No		Matrix matched - Multiple level	GC-IT-MS/MS		GC-IT-MS/MS	Rec. from same batch	
065		NA															
066	0.01	D	0.046	72	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
067		NA															
068		NA															
069	0.01	D	0.16	55	Yes	AcN			20.07	No	DSPE	Pure solvent - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
070	0.01	D	0.1	88	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	TPP
071	0.01	D	0.092	100	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.0961	95	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.085	70	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074	0.01	ND															
075	0.01	D	0.098	103	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076	0.005	D	0.089	90.5	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level			LC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.01	D	0.0716	92	No	EtOAc			50	Yes		Matrix matched - Multiple level	ECD	MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
078	0.01	D	0.0738	89	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.080	91	No	AcN			10		DSPE	Matrix matched - Single level		Diode Array Detector	LC-MS	Rec. from same batch	
081	0.01	D	0.073	85.5	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-methyl
082		NA															
083	0.05	D	0.077	74	No	DCM			10	No		Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Endosulfan Lactone
084	0.01	D	0.089	93	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.062	83	No	EtOAc			10	No	SPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	Isoproturon-D6
086	0.01	D	0.255	87	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS	LC-MS	Rec. from same batch	TDCPP
087	0.01	D	0.0920	126	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28
088	0.01	D	0.081	134	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13
089		NA															
090	0.09	D	0.09	113.3	No	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	ECD		GC/ECD	Rec. from validation data	
091	0.01	D	0.082	101	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
092	0.01	D	0.072	100.3	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl
093	0.01	D	0.0975	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Propiconazole-D5

APPENDIX 7. Methods used by participants for determining pesticides.

Indoxacarb																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
094	0.01	D	0.0716	109	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
095		NA															
096	0.01	D	0.084	94	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.123	93	No	AcN			1	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
098	0.01	D	0.0699	103	No	AcN	Acetic Acid		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
099	0.01	D	0.082	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	Two columns	Via Standard addition	Sulfotep
100	0.01	D	0.0721	91.6	No	AcN			15.0	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
101	0.01	D	0.0825	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.101	120	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.109	102	No	DCM/Acetone			5	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
104		NA															
105	0.01	D	0.0878	100	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.01	D	0.104	127	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
107	0.01	D	0.080	97	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108	0.01	D	0.105	139	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.0773	112.0	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110	0.01	D	0.082	105.8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.105	92	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.005	D	0.090	85.9	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
114	0.01	D	0.101	98	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
115		NA															
116	0.01	D	0.092	100	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.101	102	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.078	83	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119		NA															
120	0.01	D	0.111	85	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121		NA															
122	0.01	D	0.098	95.3	Yes	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
123	0.01	D	0.085	101	No	AcN			10	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from validation data	
124		NA															
125	0.01	ND															
126	0.01	D	0.0850	96	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.106	119	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.0715	86	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.072	70-120	No	Ethyl Acetate			10			Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
130		NA															
131	0.01	D	0.090	130	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132	0.01	D	0.0679	73	No	Ethyl Acetate			20	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
133	0.01	D	0.0512	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.01	D	0.076		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
135	0.01	D	0.0860	90.0	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	ND															
137	0.05	D	0.069	102.7	No	AcN			10	No	DSPE	Standard addition	IDT		LC-MS/MS (QQQ)	Rec. from same batch	Trichloronate
138	0.01	D	0.088	96	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															
140	0.01	D	0.033	90	No	AcN			10		DSPE						
141		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Indoxacarb																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
142		NA															
143	0.01	D	0.077	95	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
144	0.01	D	0.097	103	No												
145	0.01	D	0.083	84	No	AcN			10	No	DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	TPP
146	0.01	D	0.0959	106	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.07	97	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	D	0.10	97	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	Desethylatrazine
150		NA															
151	0.01	D	0.063	110	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153	0.01	D	0.054	89.0	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
154	0.01	D	0.056	99	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
155	0.01	D	0.056	93	No	AcN			10	No	DSPE	Matrix matched - Single level	ECD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.04	D	0.077	80	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
157	0.01	D	0.056	97	No	AcN			10.00	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
158		NA															
159	0.05	D	0.103	99.4	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.0660	92.5	No	Acetone	DCM	Petr.Ether 40-60	6	No		Matrix matched - Multiple level	ECD		GC-TOF	Rec. from same batch	
162	0.05	D	0.137	95	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.01	D	0.08	73	No	AcN			15		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
166		NA															
167	0.01	D	0.08	95	No	AcN			15	No	SPE	Pure solvent - Multiple level	ECD	Diode Array Detector	GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Iprodione																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.254		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		
002	0.01	D	0.207	74	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
003	0.01	D	0.345	95.2	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.325	87	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.02	D	0.342	80	No	AcN			10	No	DSPE	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.316	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007	0.09	D	0.54	98	No	EtOAc			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
008	0.01																
009	0.01	D	0.376	98	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010	0.01	D	0.469	119	No	Acetone	DCM	Petr. Ether	7.50	No		Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
011	0.01	D	0.387	85	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.35	84	No	AcN			10	Yes	PSA	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
013	0.05	D	0.29	109	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
014	0.01	D	0.267	98	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.260	102	No	EtOAc			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.443	99	No	AcN			10		DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	
017	0.01	D	0.296	78	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.426	83	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
019	0.01	D	0.389	104.9	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-209
020	0.01	D	0.235	66.7	No	EtOAc			15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.394	116	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	TPP
022	0.01	D	0.248	82	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP, Quintozene
023	0.02	D	0.318	95	No	Acetone			50	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
024	0.01	D	0.325	98	No	EtOAc			10	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from validation data	
025	0.01	D	0.349	90	No	Acetone	DCM		15	No		Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
026	0.01	D	0.331	92	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.312	109	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from validation data	
028	0.01	D	0.362	112	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.247	86	Yes	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS		
030		NA															
031	0.04	D	0.251	115	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
032	0.01	D	0.351		No	AcN			15	No	DSPE	Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.358	83	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP
034	0.01	D	0.343	137	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
035	0.01	D	0.264	94	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.273		No	AcN			10		SPE	Matrix matched - Multiple level		MS/MS (QQQ)			
037	0.01																
038	0.01	D	0.487	95	No	Acetone	Cyclohexane	EtOAc	75	Yes	GPC	Matrix matched - Multiple level	NPD		GC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.376	91.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.293	98	No	Toluene	Isopropanol		25	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
042	0.02	D	0.334	84	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.01	D	0.343	76.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044	0.01	D	0.324	93	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	
045	0.01	D	0.233	78.3	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.341	101.3	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	ECD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Iprodione																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047	0.01	D	0.264	92.3	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
048	0.01	D	0.410	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049		NA															
050	0.01	D	0.366	97.0	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-TOF	Rec. from same batch	Tris-(1,3-dichlorisopropyl)-phosphat
051	0.01	D	0.36		No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT			Rec. from same batch	
052	0.01	D	0.457	101	No	AcN			10		DSPE	Matrix matched - Multiple level	TOF		GC-MS	Via Standard addition	Chlorpyrifos-D10
053	0.01	D	0.28	120	No	AcN			10	No		Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via isotope labelled ISTD	Parathion Methyl-D6
054	0.01	D	0.369	83	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	TPP
055	0.01	D	0.366	85	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.254	74	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
057	0.2	D	0.31	100	No	AcN			10.10	No	DSPE	Matrix matched - Multiple level	NPD		GC-MS	Via Standard addition	
058	0.01	D	0.318	106	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.006	D	0.374	105	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.333	95	No	AcN			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Chlopyrifos-D10
061	0.01	D	0.281	83	No	EtOAc			10	Yes	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Trifluralin-D14
062	0.01	D	0.30	80	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.407	96.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
064	0.01	D	0.192	112	Yes	EtOAc			15	No		Matrix matched - Multiple level	GC-IT-MS/MS		GC-IT-MS/MS	Rec. from same batch	
065	0.01	D	0.348	85	Yes	Acetone	DCM		5	No	SPE	Standard addition	ECD		Two columns	Rec. from validation data	
066	0.02	D	0.360	95	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068	0.01	D	0.28	98	No	Acetone	MeOH		50		SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	Fenclorfos
069	0.01	D	0.42	26	Yes	AcN			20.07	No	DSPE	Pure solvent - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
070	0.01	D	0.25	72	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF		GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.421	85	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level	TOF			Rec. from same batch	TPP
072	0.01	D	0.440	91	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.367	93	No	AcN			10	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS	Rec. from same batch	
074	0.01	D	0.283	91	No	AcN			10			Pure solvent - Multiple level	ECD		GC-MS	Rec. from same batch	Etion
075	0.01	D	0.345	92	No	Acetone	DCM	Petr. Ether	7.5	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-ECD	Via Standard addition	HCB
076	0.01	D	0.405	81.7	No	AcN			15	No	DSPE	Matrix matched - Multiple level			GC-MS	Rec. from same batch	TPP
077	0.01	D	0.309	91	No	EtOAc			50	Yes	GPC	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
078	0.01	D	0.269	84	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	Pirimicarb-D6
079	0.01	D	0.371	93	Yes	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	a-HCH-D6
080	0.01	D	0.365	95	No	AcN			10		DSPE	Matrix matched - Single level	ECD+NPD		GC-MS/MS (QQQ)	Rec. from same batch	
081	0.01	D	0.324	90.5	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-methyl
082	0.01	D	0.191	125	No												
083	0.05	D	0.30	74	No	DCM			10	No		Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Endosulfan Lactone
084	0.01	D	0.295	98	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Anthracene
085	0.01	D	0.502	111	No	EtOAc			10		SPE	Pure solvent - Multiple level	ECD		LC-MS/MS (QQQ)	Rec. from same batch	Quintozene
086	0.01	D	0.214	79	No	AcN			20	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.371	107	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28
088	0.01	D	0.229	60	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Caffeine
089	0.01	D	0.41	101	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
090	0.09	D	0.35	105.1	No	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	NPD		GC/NPD, GC/ECD	Rec. from validation data	
091	0.01	D	0.352	87	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
092	0.01	D	0.312	105.6	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl
093	0.01	D	0.233	92.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-170
094	0.01	D	0.578	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Iprodione																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095		NA															
096	0.01	D	0.316	120	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
097	0.01	D	0.245	89	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098	0.01	D	0.386	91.3	No	AcN	Acetic Acid		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
099	0.01	D	0.331	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	Sulfotep
100	0.03	D	0.345	94.76	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	MSD			Rec. from validation data	
101	0.01	D	0.348	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.407	105	No	AcN			10	No	DSPE	Matrix matched - Single level	MS/MS (IT)			Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.378	86	No	DCM/Acetone			5	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
104	0.04	D	0.189	62.01	No	Isopropyl Alcohol	Toluene		25	No	SPE	Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
105	0.01	D	0.403	100	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.02	D	0.377	109	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT		GC-MS/MS (ITD)	Rec. from same batch	TPP
107	0.01	D	0.333	106	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
108	0.01	D	0.280	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.362	107.6	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110		NA															
111	0.05	D	0.332	81.2	No	EtOAc			50.00	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
112	0.01	D	0.416	95	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.02	D	0.330	98	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD/NPD		Two columns	Rec. from same batch	
114	0.01	D	0.332	1000	Yes	AcN			1	Yes	Thermal desorption	Standard addition	MSD		GC-MS	Via Standard addition	
115	0.1	D	0.321	83	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
116	0.01	D	0.344	92	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.263	91	No	EtOAc			30	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Tetraphenylethylene
118	0.01	D	0.372	78	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.388	105	Yes	AcN	AcN		10	No	DSPE	Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Ethion
120	0.01	D	0.299	100	No	AcN			10	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	TDCP
121	0.01	ND															
122		NA															
123	0.01	D	0.383	101.7	No	AcN			10	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
124	0.05	D	0.398	110	Yes	Acetone	DCM	EtOAc	100	No	GPC	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
125	0.01	D	0.333	100	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Via Standard addition	TPP
126	0.01	D	0.406	103	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.296	74	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.348	103	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS	Rec. from same batch	
129	0.01	D	0.290	70-120	No	EtOAc			10			Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP
130	0.01																
131	0.01	D	0.28	100	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS ion trap			Rec. from same batch	TPP
132	0.01	D	0.255	103	No	EtOAc			20	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
133	0.01	D	0.364	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.02	D	0.326		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
135	0.01	D	0.348	77.0	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	ND															
137	0.01	D	0.316	103.9	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT			Rec. from same batch	Trichloronate
138	0.01	D	0.384	92	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	TPP
139		NA															
140	0.01	D	0.3	96	No	AcN			10		DSPE						
141	0.01	D	0.07	90	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD			Rec. from validation data	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Iprodione																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
142	0.01	D	0.224	83.8	Yes	Acetone	DCM		15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	TPP
143	0.01	D	0.363	85	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level	TOF		GC-TOF	Rec. from same batch	
144	0.01	D	0.19	75	No												
145	0.01	D	0.316	99	No	AcN			10	No	DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	TPP
146	0.01	D	0.778	99	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
147	0.02	D	0.343	98.6	No	EtOAc			25.0				ECD			Via Standard addition	
148	0.01	D	0.33	99	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	D	0.26	85	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD			Via Standard addition	Aldrin
150	0.01	D	0.212	-	No	EtOAc	EtOAc		20	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS		Fenchlorphos
151	0.01	D	0.279	105	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152	0.02	D	0.78	168	No	Acetone	Cyclohexane		15	No	Liquid/liquid partitioning		ECD				
153		NA															
154	0.01	D	0.55	82	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
155	0.01	D	0.653	81	No	AcN			10	No	DSPE	Matrix matched - Single level	ECD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.02	D	0.283	82	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
157	0.01	D	0.338	89	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158	0.01	D	0.316	127	No	AcN			10	No	DSPE	Standard addition	MSD		GC-MS	Via Standard addition	Tris(2-cloro(clorometil)etilfosfato)
159	0.01	D	0.278	94.1	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.383	92.6	No	Acetone	DCM	Petr. Ether 40-60	6	No		Matrix matched - Multiple level	ECD		GC-TOF	Rec. from same batch	
162	0.05	D	1.114	101	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.01	D	0.36	125	No	AcN			15		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
166		NA															
167	0.01	D	0.543	98	No	AcN			15	No	SPE	Pure solvent - Multiple level	ECD		GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Methoxyfenozide																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.153		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.157	101	No	EtOAc			10	No	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
003	0.01	D	0.177	none	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)			TPP
004	0.01	D	0.158	107	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.149	90	No	AcN			10					MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
006	0.01	D	0.0834	Std add	Yes	EtOAc			15	No		Standard addition		MS/MS (QQQ)		Via Standard addition	
007		NA															
008		NA															
009	0.01	D	0.170	94	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
010		NA															
011	0.01	D	0.154	104.4	No	MeOH	Water		5	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
012	0.01	D	0.19	114	No	AcN			10	Yes	PSA	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
013		NA															
014	0.01	D	0.140	98.3	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
015	0.01	D	0.132	103	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016		NA															
017	0.01	D	0.147	99	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.156	96	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.154	103.3	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020	0.01	D	0.150	114	No	AcN			15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.161	107	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
022		NA															
023	0.01	D	0.149	102	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.005	D	0.163	96.3	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	
025	0.01	D	0.179	95	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
026	0.01	D	0.205	113	Yes	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Via Standard addition	Isoproturon-D6
027	0.01	ND															
028	0.01	D	0.198	115	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
029	0.01	D	0.154	93	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031		NA															
032	0.005	D	0.212		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.131	97	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.135	113	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.148	93	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
036	0.01	D	0.119		No	AcN			10		SPE	Matrix matched - Multiple level		MS/MS (QQQ)			
037	0.01																
038	0.01	D	0.140	93	No	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.154	91.1	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041		NA															
042	0.02	D	0.123	96	No	AcN			10	No	DSPE	Matrix matched - Multiple level		Orbitrap		Rec. from same batch	Tris(1,3-dichlorisopropyl)phosphat
043	0.01	D	0.164	100.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044		NA															
045	0.01	D	0.226	102	No	AcN			5	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Methoxyfenozide																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
046		NA															
047	0.01	D	0.131	97.3	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
048	0.01	D	0.186	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049		NA															
050	0.01	D	0.172	107.7	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	Linuron-D6
051		NA															
052	0.01	D	0.188	101	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053	0.01	D	0.134	80	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.157	78	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Orbitrap	Rec. from same batch	TPP
055	0.01	D	0.151	93	Yes	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.14	86	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.157	106	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.005	D	0.196	118	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
060	0.01	D	0.160	96	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.169	93	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.19	98	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
063	0.01	D	0.159	95.3	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
064		NA															
065		NA															
066	0.02	D	0.260	68	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
067		NA															
068		NA															
069	0.01	D	0.14	48	Yes	AcN			20.07	No	DSPE	Pure solvent - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
070	0.01	D	0.18	101	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	TPP
071	0.01	D	0.136	90	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.165	104	No	AcN			10	No	DSPE	Pure solvent - Multiple level		Orbitrap	LC-Orbitrap	Rec. from validation data	TPP
073	0.01	D	0.153	95	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074		NA															
075	0.02	D	0.203	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076	0.005	D	0.148	95	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level			LC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.01	D	0.147	100	No	EtOAc			50	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
078	0.01	D	0.152	93	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.168	102	No	AcN			10		DSPE	Matrix matched - Single level		Diode Array Detector	LC-MS	Rec. from same batch	
081	0.01	D	0.146	96.0	No	MeOH	DCM		5	Yes	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-D3
082		NA															
083		NA															
084	0.01	D	0.155	100	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.122	77	No	EtOAc			10	No	SPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	Isoproturon-D6
086	0.01	D	1.28	86	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS	LC-MS	Rec. from same batch	TDCPP
087	0.01	D	0.162	105	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP-D15
088	0.01	D	0.098	72	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13
089		NA															
090		NA															
091		NA															
092	0.01	D	0.104	98.5	No	MeOH	DCM		10	Yes	ChemElut	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
093	0.01	D	0.167	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Terbuthylazin-D5

APPENDIX 7. Methods used by participants for determining pesticides.

Methoxyfenozide																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
094	0.01	D	0.135	111	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
095		NA															
096	0.01	D	0.147	113	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.143	98	No	AcN			1	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.156	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	Two columns	Via Standard addition	Sulfotep
100	0.01	D	0.130	84.4	No	AcN			15.0	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
101	0.01	D	0.171	74	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.188	98	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103		NA															
104		NA															
105	0.01	D	0.171	100	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106		NA															
107	0.01	D	0.149	96	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108		NA															
109	0.01	D	0.154	108.0	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110	0.01	D	0.19	106	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.197	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.151	103.4	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
114		NA															
115		NA															
116		NA															
117	0.01	D	0.167	99	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.123	108	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
119		NA															
120	0.01	D	0.192	112	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121		NA															
122		NA															
123	0.01	D	0.141	101	No	AcN			10	No	SPE	Matrix matched - Multiple level		Diode Array Detector	Two columns	Rec. from validation data	
124		NA															
125		NA															
126	0.01	D	0.170	95	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.02	D	0.083	90	No	AcN			10		SPE	Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
128	0.01	D	0.160	94	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
129	0.01	D	0.055	70-120	No	EtOAc			10			Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
130		NA															
131	0.01	D	0.14	120	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132		NA															
133		NA															
134	0.01	D	0.167		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
135	0.01	D	0.179	97.8	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	Standard addition	Rec. from validation data	
136	0.01	D	0.26	79	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.165	89.2	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
138	0.01	D	0.159	102	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Methoxyfenozide																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
140	0.01	D	0.140	97	No	AcN			10		DSPE						
141		NA															
142		NA															
143		NA															
144	0.01	D	0.17	103.5	No												
145		NA															
146	0.01	D	0.136	95	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148		NA															
149	0.01	D	0.17	73	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	none	Via Standard addition	Desethylatrazine
150		NA															
151	0.01	D	0.136	100	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153		NA															
154	0.01	D	0.089	72	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
155	0.01	D	0.138	98	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
156	0.05	D	0.152	90	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
157	0.01	D	0.124	83	No	AcN			10.00	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
158		NA															
159	0.05	D	0.157	108.8	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.108	106.7	No	AcN			10	No		Standard addition		MS/MS (QQQ)	none	Rec. from same batch	
162	0.01	D	0.149	138	No	AcN			12	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	none	Rec. from same batch	TPP
163		NA															
164		NA															
165		NA															
166		NA															
167	0.01	D	0.144	98	No	AcN			15	No	SPE	Pure solvent - Multiple level		Diode Array Detector		Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Phosmet

Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.083		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)		
002	0.01	D	0.0482	88	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.0613	93.5	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.0618	82	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)	MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.064	82	No	AcN			10	No	DSPE	Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.0628	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007		NA															
008		NA															
009	0.01	D	0.0588	100	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010	0.01	D	0.029	94	No	Acetone	DCM	Petr. Ether	7.50	No		Matrix matched - Single level	NPD		Two columns	Rec. from validation data	
011	0.01	D	0.078	80	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.070	85	No	AcN			10	Yes	PSA	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
013		NA															
014	0.01	D	0.038	102.6	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.0533	106	No	EtOAc			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.081	102	No	AcN			10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
017	0.01	D	0.047	92	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.082	85	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
019	0.01	D	0.079	103.7	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-209
020	0.01	D	0.047	120	No	AcN			15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.068	116	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
022	0.02	D	0.0396	96	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP, Quintozene
023	0.01	D	0.069	99	No	Acetone			50	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
024	0.01	D	0.067	96.2	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	
025	0.01	D	0.072	97	No	Acetone	DCM		15	No		Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	
026	0.01	D	0.078	105	Yes	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Via Standard addition	Isoproturon-D6
027	0.01	ND															
028	0.01	D	0.085	120	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.041	99	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031	0.02	D	0.065	99	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
032	0.005	D	0.053		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.058	87	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.070	110	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.0526	91	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.083		No	AcN			10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)				TPP
037	0.01																
038	0.01	D	0.091	100	Yes	Acetone	Cyclohexane	EtOAc	75	Yes	GPC	Matrix matched - Multiple level	NPD		GC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.0715	91.4	No	AcN			10	No	DSPE	Matrix matched - Multiple level	NPD		GC-PFPD	Rec. from same batch	
040	0.01																
041	0.01	D	0.056	90	No	Toluene	Isopropanol		25	No	Liquid/liquid partitioning	Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
042	0.02	D	0.0348	55	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.025	D	0.072	81.1	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044	0.02	D	0.123	91	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	
045	0.01	D	0.036	79.4	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.076	101.6	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	NPD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Phosmet																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
047		NA															
048	0.01	D	0.075	96	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049	0.01	ND															
050	0.01	D	0.0810	99.3	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	Linuron-D6
051		NA															
052	0.01	D	0.088	86	No	AcN			10		DSPE	Matrix matched - Multiple level	TOF		GC-MS	Via Standard addition	Chlorpyrifos-D10
053	0.01	D	0.063	120	No	AcN			10	No		Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via isotope labelled ISTD	Parathion Methyl-D6
054	0.01	D	0.058	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	TPP
055	0.01	D	0.087	92	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.055	50	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.0666	110	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.006	D	0.073	105	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.068	97	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.052	61	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.09	95	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.773	97.1	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	TPP
064		NA															
065	0.01	D	0.068	86	Yes	Acetone	DCM		5	No	SPE	Standard addition	ECD		Two columns	Rec. from validation data	
066	0.02	D	0.055	85	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068	0.01	D	0.073	107	No	Acetone	MeOH		50		SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	Fenclorfos
069	0.01	ND															
070	0.01	D	0.07	96	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.086	94	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level	TOF			Rec. from same batch	TPP
072	0.01	D	0.0821	96	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.087	95	No	AcN			10	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS	Rec. from same batch	
074	0.01	D	0.064	91	No	AcN			10			Pure solvent - Multiple level	ECD		GC-MS	Rec. from same batch	Etion
075	0.01	D	0.032	95	No	Acetone	DCM	Petr. Ether	7.5	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)			Via Standard addition	TPP
076		NA															
077	0.01	D	0.0545	90	No	EtOAc			50	Yes	GPC	Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	
078	0.01	D	0.0419	82	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	Pirimicarb-D6
079	0.01	D	0.062	83	Yes	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	a-HCH-D6
080	0.01	D	0.062	90	No	AcN			10		DSPE	Matrix matched - Single level		Diode Array Detector	LC-MS	Rec. from same batch	
081	0.01	D	0.069	92.3	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-Methyl
082		NA															
083	0.02	D	0.042	75	No	DCM			10	No		Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	Ethion
084	0.01	D	0.058	92	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.065	108	No	EtOAc			10	No	SPE	Pure solvent - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	Anthracene
086	0.01	D	0.112	110	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.0803	106	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28
088	0.01	D	0.041	60	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Caffeine
089		NA															
090	0.01	D	0.09	83.9	No	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	NPD		GC/NPD, GC/ECD	Rec. from validation data	
091	0.01	D	0.070	76	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	ECD		Two columns	Rec. from validation data	
092	0.01	D	0.050	96.3	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl
093	0.01	D	0.0880	90.7	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Diazinon-D10
094	0.01	D	0.0673	102	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Phosmet																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095	0.03	D	0.0729	113	No	EtOAc			50	No	GPC	Pure solvent - Multiple level	NPD		Two columns	Rec. from same batch	
096	0.01	D	0.085	92	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.084	93	No	AcN			1	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.075	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	Sulfotep
100	0.01	D	0.0643	92.65	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	FPD		GC-MS	Rec. from validation data	
101	0.01	D	0.0680	103	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.085	108	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103		NA															
104	0.02	D	0.043	105.30	No	EtOAc			25	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
105	0.01	D	0.0758	94	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.02	D	0.072	131	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT		GC-MS/MS (ITD)	Rec. from same batch	TPP
107	0.01	D	0.069	87	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108	0.01	D	0.0566	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.0630	106.5	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110	0.01	D	0.112	103.2	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111	0.02	D	0.086	103%	No	EtOAc			50.00	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
112	0.01	D	0.084	103	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.005	D	0.073	87.2	Yes	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
114	0.01	D	0.0777	95	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
115	0.05	ND															
116	0.01	D	0.068	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.0488	87	No	EtOAc			30	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Tetraphenylethylene
118	0.01	D	0.072	94	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.075	105	Yes	AcN	AcN		10	No	DSPE	Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	TPP
120	0.01	D	0.049	90	No	AcN			10	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	TDCP
121	0.01	ND															
122	0.01	D	0.066	106	Yes	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
123	0.01	D	0.065	96	No	AcN			10	No		Matrix matched - Multiple level	FPD		GC-MS	Rec. from validation data	
124		NA															
125		NA															
126	0.01	D	0.0665	106	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.046	76	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.0500	100	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
129		NA															
130		NA															
131	0.01	D	0.055	110	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS ion trap			Rec. from same batch	TPP
132	0.01	D	0.0555	110	No	EtOAc			20	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
133	0.01	D	0.579	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.01	D	0.091		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS		
135	0.01	D	0.0830	104.7	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	0.09	88	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.090	72.9	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	GC-ITD	Rec. from same batch	TPP
138	0.01	D	0.064	104	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															
140	0.01	D	0.028	94	No	AcN			10		DSPE						

APPENDIX 7. Methods used by participants for determining pesticides.

Phosmet																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
141	0.01	D	positive	90	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD			Rec. from validation data	TPP
142	0.05	D	0.067	79.5	Yes	Acetone	DCM		15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
143	0.01	D	0.056	94	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
144	0.01	D	0.05	70	No												
145	0.01	D	0.039	71	No	AcN			10	No	DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	TPP
146	0.01	D	0.0845	104	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.07	85	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	D	0.057	92	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	Desethylatrazine
150	0.01	ND															
151	0.01	D	0.072	100	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153		NA															
154	0.01	D	0.075	86	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
155	0.01	D	0.053	81	No	AcN			10	No	DSPE	Matrix matched - Single level	ECD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.04	D	0.068	117	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	FPD		GC-MS	Rec. from same batch	
157	0.01	D	0.067	93	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158	0.01	D	0.0605	102	No	AcN			10	No	DSPE	Standard addition	MSD		GC-MS	Via Standard addition	Tris(2-cloro(clorometil)etilfosfato)
159	0.02	D	0.0305	80.8	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.0538	97.1	No	AcN			10	No		Standard addition		MS/MS (QQQ)		Rec. from same batch	
162	0.05	D	0.143	86	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.02	D	0.05	69	No	AcN			15		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
166		NA															
167	0.01	D	0.073	107	No	AcN			15	No	SPE	Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Pyraclostrobin																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.195		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.118	89	No	EtOAc			10	No	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
003	0.01	D	0.170	none	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)			TPP
004	0.01	D	0.180	113	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.215	106	No	AcN			10					ITQ	LC-ITQ	Rec. from same batch	
006	0.01	D	0.156	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)		LC-MS/MS (QQQ)	Via Standard addition	
007	0.06	ND															
008		NA															
009	0.01	D	0.171	95	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010		NA															
011	0.01	D	0.204	92	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.22	109	No	AcN			10	Yes	PSA	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
013		NA															
014	0.01	D	0.141	97	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.127	105	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.127	106	No	AcN			10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
017	0.01	D	0.127	89	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.185	93	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.158	95.8	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020		NA															
021	0.01	D	0.146	105	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	TPP
022		NA															
023	0.01	D	0.172	93	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.005	D	0.165	98.8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	
025	0.01	D	0.158	95	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
026	0.01	D	0.182	109	Yes	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Via Standard addition	Isoproturon-D6
027	0.01	D	0.261	101	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from validation data	
028	0.01	D	0.229	111	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
029	0.01	D	0.127	94	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031		NA															
032	0.005	D	0.306		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.148	98	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.130	112	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.143	96	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
036	0.01	D	0.145		No	AcN			10		SPE	Matrix matched - Multiple level		MS/MS (QQQ)			
037	0.01																
038	0.01	D	0.201	91	No	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.189	98.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.172	96	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
042	0.01	D	0.145	92	No	AcN			10	No	DSPE	Matrix matched - Multiple level		Orbitrap		Rec. from same batch	Tris(1,3-dichlorisopropyl)phosphat
043	0.01	D	0.189	99.4	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044		NA															
045	0.01	D	0.190	105	No	AcN			5	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Pyraclostrobin																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
046	0.01	D	0.163	101.8	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	ECD		Two columns		
047	0.01	D	0.147	74.9	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
048	0.01	D	0.209	106	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049		NA															
050	0.01	D	0.212	108.0	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	Linuron-D6
051		NA															
052	0.01	D	0.198	93	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053	0.01	D	0.253	100	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.200	120	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Orbitrap	Rec. from same batch	TPP
055	0.01	D	0.210	87	Yes	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.156	84	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.183	89	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.005	D	0.201	110	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.175	93	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.153	89	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.18	111	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
063	0.01	D	0.203	100.7	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	TPP
064		NA															
065		NA															
066	0.01	D	0.123	89	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068		NA															
069	0.01	D	0.15	82	No	AcN			20.07	No	DSPE	Pure solvent - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
070	0.01	D	0.18	93	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.203	110	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.184	98	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP
073	0.01	D	0.194	90	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074		NA															
075	0.01	D	0.209	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076	0.005	D	0.142	92.1	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level			LC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.01	D	0.140	100	No	EtOAc			50	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
078	0.01	D	0.146	89	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080		NA															
081	0.01	D	0.151	95.6	No	MeOH	DCM		5	Yes	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-D3
082		NA															
083	0.05	D	0.22	66	No	DCM			10	No		Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Endosulfan Lactone
084	0.01	D	0.186	100	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.201	103	No	EtOAc			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	Isoproturon-D6
086	0.01	D	0.187	84	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.169	96	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP-D15
088	0.01	D	0.197	120	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13
089		NA															
090		NA															
091		NA															
092	0.01	D	0.168	101.3	No	MeOH	DCM		10	Yes	ChemElut	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
093	0.01	D	0.172	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Propiconazole-D5

APPENDIX 7. Methods used by participants for determining pesticides.

Pyraclostrobin																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
094	0.01	D	0.153	106	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
095		NA															
096	0.01	D	0.17	97	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.213	102	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.185	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	Sulfotep
100	0.01	D	0.133	89.0	No	AcN			15.0	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
101	0.01	D	0.156	87	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.184	107	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.162	112	No	DCM/Acetone			5	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
104		NA															
105	0.01	D	0.192	96	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106		NA															
107	0.01	D	0.171	100	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108	0.01	D	0.172	112	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.157	111.0	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110	0.01	D	0.122	72,9	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.236	89	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.183	106.2	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
114	0.01	D	0.220	100	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
115		NA															
116	0.01	D	0.185	110	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.138	96	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.219	80	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.36	75	No	AcN	AcN		10	No	DSPE	Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Ethion
120	0.01	D	0.161	84	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121		NA															
122		NA															
123	0.01	D	0.200	98	No	AcN			10	No	SPE	Matrix matched - Multiple level		Diode Array Detector	Two columns	Rec. from validation data	
124		NA															
125		NA															
126	0.01	D	0.207	106	No	MeOH			10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.112	82	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.135	90	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.152	70-120	No	EtOAc			10			Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
130		NA															
131	0.01	D	0.15	140	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132		NA															
133		NA															
134	0.01	D	0.179		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
135	0.01	D	0.198	101.0	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	0.21	76	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.198	91.5	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	GC-ITD	Rec. from same batch	TPP
138	0.01	D	0.180	100	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Pyraclostrobin																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
140	0.01	D	0.17	93	No	AcN			10		DSPE						
141	0.01	D	0.5	90	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD			Rec. from validation data	TPP
142		NA															
143	0.01	D	0.138	84	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
144	0.01	D	0.21	97.1	No												
145	0.01	D	0.139	98	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
146	0.01	D	0.211	109	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.20	108	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	D	0.15	95	No	AcN				Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	Desethylatrazine
150		NA															
151	0.01	D	0.194	90	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153	0.01	D	0.164	94.7	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
154	0.01	D	0.11	72	No	Acetone	DCM	Ethyl Acetate	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
155	0.01	D	0.153	101	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
156	0.02	D	0.165	86	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
157	0.01	D	0.317	78	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158		NA															
159	0.05	D	0.159	112	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.114	94.5	No	AcN			10	No		Standard addition		MS/MS (QQQ)		Rec. from same batch	
162		NA															
163		NA															
164		NA															
165	0.01	D	0.15	83	No	AcN			15		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
166		NA															
167	0.01	D	0.119	94	No	AcN			15	No	SPE	Pure solvent - Multiple level		Diode Array Detector		Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Pyrimethanil																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.084		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		
002	0.01	D	0.0752	86	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.104	102.1	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.107	91	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)	MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.120	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.111	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007	0.01	D	0.12	104	No	EtOAc			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
008		NA															
009	0.01	D	0.109	100	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010		NA															
011	0.01	D	0.102	96	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.11	85	No	AcN			10	Yes	PSA	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
013	0.02	D	0.095	100	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
014	0.01	D	0.091	95.8	No	AcN			10	No		Matrix matched - Single level	NPD		GC-MS	Rec. from same batch	
015	0.01	D	0.0793	102	No	EtOAc			10	Yes		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.117	107	No	AcN			10		DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	
017	0.01	D	0.098	100	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.005	D	0.113	89	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.115	108.0	Yes	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020	0.01	D	0.069	76.1	No	EtOAc			15	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.099	103	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
022	0.01	D	0.0446	73	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP, Quintozene
023	0.01	D	0.142	87	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.01	D	0.102	93.8	No	EtOAc			10	No		Matrix matched - Multiple level	NPD		GC-MS	Rec. from validation data	
025	0.01	D	0.101	95	No	Acetone	DCM		15	No		Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
026	0.01	D	0.108	91	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.158	103	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
028	0.01	D	0.093	96	No	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029	0.01	D	0.090	98	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030	0.01	D	0.089	132	Yes	AcN	Water		10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
031	0.02	D	0.188	98	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
032	0.005	D	0.203		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.103	78	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	TPP
034	0.01	D	0.115	116	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.0816	94	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.120		No	AcN			10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)				TPP
037	0.01																
038	0.01	D	0.107	88	No	Acetone	Cyclohexane	EtOAc	75	Yes	GPC	Matrix matched - Multiple level	NPD		GC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.120	110.9	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.105	80	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
042	0.01	D	0.117	91	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from same batch	
043	0.01	D	0.110	100.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044	0.02	D	0.115	82	No	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Via Standard addition	
045	0.01	D	0.081	75.3	No	AcN			5	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
046	0.01	D	0.111	90.9	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	NPD		Two columns		

APPENDIX 7. Methods used by participants for determining pesticides.

Pyrimethanil																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used	
047	0.01	D	0.104	93.1	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch		
048	0.01	D	0.123	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch		
049	0.01	D	0.16	104.0	No	AcN			10		DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data		
050	0.01	D	0.113	93.5	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-TOF	Rec. from same batch	Linuron-D6	
051	0.01	D	0.09		No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT			Rec. from same batch		
052	0.01	D	0.132	103	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6	
053	0.01	D	0.114	70	No	AcN			10	No		Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via isotope labelled ISTD	Parathion Methyl-D6	
054	0.01	D	0.107	76	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Orbitrap	Rec. from same batch	TPP	
055	0.01	D	0.143	88	Yes	Cyclohexane			13	No		Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition		
056	0.01	D	0.113	80	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP	
057	0.06	D	0.099	100	No	AcN			10.10	No	DSPE	Matrix matched - Multiple level	NPD		GC-MS	Via Standard addition		
058	0.01	D	0.103	103	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch		
059	0.01	D	0.107	101	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch		
060	0.01	D	0.099	92	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP	
061	0.01	D	0.076	87	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4	
062	0.01	ND																
063	0.01	D	0.109	84.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	TPP	
064	0.01	D	0.0389	73	Yes	EtOAc			15	No		Matrix matched - Multiple level	GC-IT-MS/MS		GC-IT-MS/MS	Rec. from same batch		
065	0.01	D	0.113	96	Yes	Acetone	DCM		5	No	SPE	Standard addition	NPD		Two columns	Rec. from validation data		
066	0.01	D	0.113	95	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB	
067		NA																
068	0.01	D	0.070	88	No	Acetone	MeOH		50		SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from validation data	Fenclorfos	
069	0.01	D	0.09	35	Yes	AcN			20.07	No	DSPE	Pure solvent - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition		
070	0.01	D	0.11	101	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP	
071	0.01	D	0.127	114	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP	
072	0.01	D	0.130	95	No	AcN			10	No	DSPE	Pure solvent - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from validation data	TPP	
073	0.01	D	0.113	88	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch		
074	0.01	D	0.137	95	No	AcN			10			Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	Etion	
075	0.01	D	0.135	87	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	TPP	
076	0.005	D	0.110	84.5	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level			LC-MS/MS (QQQ)	Rec. from same batch	TPP	
077	0.01	D	0.0877	93	No	EtOAc			50	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch		
078	0.01	D	0.0831	86	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	Pirimicarb-D6	
079		NA																
080	0.01	D	0.096	97	No	AcN			10		DSPE	Matrix matched - Single level	ECD+NPD		GC-MS/MS (QQQ)	Rec. from same batch		
081	0.01	D	0.117	90.2	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos-Methyl	
082	0.01	D	0.082	111	No													
083	0.05	D	0.088	78	No	DCM			10	No		Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	Ethion	
084	0.01	D	0.092	98	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP	
085	0.01	D	0.104	100	No	EtOAc			10	No	SPE	Pure solvent - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	Anthracene	
086	0.01	D	0.082	82	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31	
087	0.01	D	0.133	118	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28	
088	0.01	D	0.098	140	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13	
089		NA																
090	0.03	D	0.11	89.7	No	DCM/Acetone			5	No	DSPE	Pure solvent - Single level	NPD		GC/NPD	Rec. from validation data		
091	0.01	D	0.106	88	No	Acetone	DCM		100	No	SPE	Matrix matched - Single level	NPD		Two columns	Rec. from validation data		
092	0.01	D	0.105	109	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl	
093	0.01	D	0.0813	99.8	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	Chlorpyriphos Me-D6	
094	0.01	D	0.0989	99	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch		

APPENDIX 7. Methods used by participants for determining pesticides.

Pyrimethanil																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
095		NA															
096	0.01	D	0.111	120	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
097	0.01	D	0.125	98	No	AcN			1	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.1	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	Sulfotep
100	0.01	D	0.101	90.09	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	MSD			Rec. from validation data	
101	0.01	D	0.0945	89	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.130	95	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103	0.01	D	0.107	120	No	DCM/Acetone			5			Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
104	0.04	D	0.073	99.33	No	EtOAc			25	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
105	0.01	D	0.109	99	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.05	D	0.112	91	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	IDT		GC-MS/MS (ITD)	Rec. from same batch	TPP
107	0.01	D	0.109	96	No	AcN			10		DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
108	0.01	D	0.100	104	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.0843	87.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
110	0.01	D	0.115	103.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.13	100	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.116	107	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
114	0.01	D	0.109	100	Yes	AcN			1	Yes	Thermal desorption	Standard addition	MSD		GC-MS	Via Standard addition	
115	0.05	D	0.09	86	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
116	0.01	D	0.103	82	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
117	0.01	D	0.121	96	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.099	74	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
119	0.01	D	0.089	97	Yes	AcN	AcN		10	No	DSPE	Pure solvent - Single level	NPD		GC-MS	Rec. from validation data	TPP
120	0.01	D	0.100	95	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121	0.02	D	0.0654	85	No	EtOAc			50	No		Matrix matched - Multiple level	GC/MS		GC-MS		
122		NA															
123	0.01	D	0.140	99	No	AcN			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from validation data	
124		NA															
125	0.01	D	0.11	58	Yes	AcN			10	No	DSPE	Pure solvent - Multiple level	MSD		GC-MS	Via Standard addition	TPP
126	0.01	D	0.130	100	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.072	88	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.0910	90	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.084	70-120	No	EtOAc			10			Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP
130	0.01																
131	0.01	D	0.088	90	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS ion trap			Rec. from same batch	TPP
132	0.01	D	0.0846	92	No	EtOAc			20	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
133	0.01	D	0.132	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.01	D	0.114		No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS		
135	0.01	D	0.110	101.1	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	0.14	83	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.086	79.6	No												
138	0.01	D	0.122	97	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															
140	0.01	D	0.075														

APPENDIX 7. Methods used by participants for determining pesticides.

Pyrimethanil																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
141	0.01	D	0.06	90	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD			Rec. from validation data	TPP
142	0.02	D	0.089	81.3	Yes	Acetone	DCM		15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
143	0.01	D	0.093	95	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
144	0.01	D	0.13	98.8	No												
145	0.01	ND															
146	0.01	D	0.144	107	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.10	96	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	D	0.11	89	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD			Via Standard addition	Aldrin
150	0.01	D	0.112	-	No	EtOAc	EtOAc		20	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)		Fenchlorphos
151	0.01	D	0.091	95	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153	0.01	D	0.127	88.0	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
154	0.01	D	0.059	71	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
155	0.01	D	0.091	113	No	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.04	D	0.103	86	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	NPD		GC-MS	Rec. from same batch	
157	0.01	D	0.121	79	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158	0.01	D	0.131	92	No	AcN			10	No	DSPE	Standard addition	MSD		GC-MS	Via Standard addition	Tris(2-cloro(clorometil)etilfosfato)
159	0.01	D	0.0854	88.1	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.0687	95.3	No	AcN			10	No		Standard addition		MS/MS (QQQ)		Rec. from same batch	
162	0.05	D	0.157	101	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.01	D	0.09	75	No	AcN			15		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
166		NA															
167	0.01	D	0.075	98	No	AcN			15	No	SPE	Pure solvent - Multiple level	NPD	Diode Array Detector	GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Spirodiclofen																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.167		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.0761	73	No	EtOAc			10	No	SPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	
003	0.01	D	0.0995	96.1	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	TPP
004	0.01	D	0.125	97	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.02	D	0.105	105	No	AcN			10	No	DSPE	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.108	Std add	Yes	EtOAc			15	No	DSPE	Standard addition	MS/MS (QQQ)			Via Standard addition	
007		NA															
008		NA															
009	0.01	D	0.130	96	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010		NA															
011	0.01	D	0.140	84	No	Acetone			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
012	0.01	D	0.11	92	No	AcN			10	Yes	PSA	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
013		NA															
014	0.01	D	0.097	103.6	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
015	0.01	D	0.0921	102	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016		NA															
017	0.01	D	0.117	92.5	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.116	100	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.128	106.8	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	PCB-209
020		NA															
021	0.01	D	0.105	102	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	TPP
022		NA															
023	0.01	D	0.105	74	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.01	D	0.100	99	No	EtOAc			10	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
025	0.01	D	0.121	82	No	Acetone	DCM		15	No		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
026	0.01	D	0.103	110	Yes	AcN			10	No	DSPE	Matrix matched - Single level	MSD		GC-MS/MS (QQQ)	Via Standard addition	PCB-20
027	0.01	D	0.176	102	No	AcN			10	Yes	DSPE	Matrix matched - Single level	MS/MS (QQQ)			Rec. from same batch	
028	0.01	D	0.123	104	Yes	AcN			10	No	DSPE	Pure solvent - Multiple level	IDT		GC-MS	Rec. from same batch	Methyl Bromophos
029		NA															
030		NA															
031		NA															
032	0.01	ND															
033	0.01	D	0.107	96	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.110	107	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.0915	95	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	0.110		No	AcN			10		DSPE	Matrix matched - Multiple level	ECD				
037	0.01																
038	0.01	D	0.110	72	No	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.114	94.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		LC-MS/MS (QQQ)	Rec. from same batch	
040		NA															
041		NA															
042	0.01	D	0.0970	91	No	AcN			10	No	DSPE	Matrix matched - Multiple level		Orbitrap	GC-MS	Rec. from same batch	Tris(1,3-dichlorisopropyl)phosphat
043	0.01	D	0.137	100	No	MeOH	DCM	Cyclohexan/EtOAc	50	No	GPC	Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Spirodiclofen																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
044		NA															
045	0.01	D	0.123	93.9	No	AcN			5	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
046		NA															
047	0.01	D	0.104	88.2	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
048	0.01	D	0.136	88	No	AcN			10	No	DSPE	Pure solvent - Single level	MSD		GC-MS	Rec. from same batch	
049		NA															
050	0.01	D	0.142	104.0	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	Linuron-D6
051		NA															
052	0.01	D	0.144	100	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053	0.01	D	0.099	55	No	AcN			10	No		Standard addition	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via isotope labelled ISTD	Parathion Methyl-D6
054	0.01	D	0.112	110	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	TPP
055	0.01	D	0.134	97	Yes	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.098	88	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.125	100	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.006	D	0.110	103	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	
060	0.01	D	0.113	91	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.113	112	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.10	100	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Bromophos Methyl
063	0.01	D	0.123	90.6	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	TPP
064		NA															
065		NA															
066	0.01	D	0.101	92	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068		NA															
069		NA															
070	0.01	D	0.19	90	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.129	107	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level	TOF			Rec. from same batch	TPP
072	0.01	D	0.132	93	No	AcN			10	No	DSPE	Pure solvent - Multiple level		Orbitrap	LC-Orbitrap	Rec. from validation data	TPP
073		NA															
074	0.01	ND															
075	0.01	D	0.121	105.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076		NA															
077	0.01	D	0.0907	91	No	EtOAc			50	Yes		Matrix matched - Multiple level	ECD	MS/MS (QQQ)	GC-MS	Rec. from same batch	
078	0.01	D	0.103	90	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080		NA															
081	0.01	D	0.110	91.9	No	Acetone	Cyclohexane	EtOAc	50	No	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-TOF	Rec. from same batch	Tolclophos Methyl
082		NA															
083	0.05	D	0.073	70	No	DCM			10	No		Pure solvent - Single level	ECD		GC-MS	Rec. from validation data	Endosulfan Lactone
084	0.01	D	0.114	93	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.090	93	No	EtOAc			10	No	SPE	Pure solvent - Multiple level	MSD		GC-MS/MS (QQQ)	Rec. from same batch	Anthracene
086	0.01	D	0.155	85	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.110	97	No	EtOAc			10	No		Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	PCB-28
088		NA															
089		NA															
090		NA															
091		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Spirodiclofen																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
092	0.01	D	0.103	116.5	No	Acetone	Cyclohexane	EtOAc	20	Yes	GPC	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP, Nitrofen, Triclosan-methyl
093	0.01	D	0.165	80.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Propiconazole-D5
094	0.01	D	0.114	109	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
095		NA															
096	0.01	D	0.1	81	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.110	103	No	AcN			1	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.106	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	Sulfotep
100	0.04	D	0.105	70.75	No	Acetone			15.0	No	Liquid/liquid partitioning	Matrix matched - Single level	MSD			Rec. from validation data	
101	0.01	D	0.149	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.115	106	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103		NA															
104		NA															
105	0.01	D	0.137	101	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106		NA															
107	0.01	D	0.109	100	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108		NA															
109	0.01	D	0.0828	126.9	Yes	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110	0.01	D	0.093	95.4	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.163	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.257	93.6	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
114		NA															
115		NA															
116		NA															
117	0.01	D	0.0917	82	No	EtOAc			30	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Tetraphenylethylene
118	0.01	D	0.120	93	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
119		NA															
120	0.01	D	0.092	100	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121		NA															
122		NA															
123	0.01	D	0.111	96.8	No	AcN			10	No		Matrix matched - Multiple level	ECD		Two columns	Rec. from same batch	
124		NA															
125		NA															
126	0.01	D	0.143	106	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.01	D	0.250	85	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TRIS
128	0.01	D	0.102	102	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.097	70-120	No	EtOAc			10			Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Via Standard addition	TPP
130		NA															
131	0.01	D	0.10	130	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132		NA															
133		NA															
134		NA															
135	0.01	D	0.120	115.4	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	
136	0.01	D	0.45	48	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137		NA															
138	0.01	D	0.106	108	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP

APPENDIX 7. Methods used by participants for determining pesticides.

Spirodiclofen																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
139		NA															
140	0.01	D	0.093														
141		NA															
142		NA															
143		NA															
144		NA															
145	0.01	ND															
146	0.01	D	0.133	109	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)		GC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.10	77	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	ND															
150		NA															
151	0.01	D	0.127	85	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153		NA															
154	0.01	D	0.12	67	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
155	0.01	D	0.105	87	No	AcN			10	No	DSPE	Matrix matched - Single level	ECD		GC-MS/MS (QQQ)	Rec. from same batch	
156	0.05	D	0.124	75	No	Acetone	DCM	Petr. Bencine	10	Yes		Matrix matched - Multiple level	ECD		GC-MS	Rec. from same batch	
157	0.01	D	0.218	87	No	EtOAc			10.00	No	GPC	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Ditalimphos
158		NA															
159		NA															
160		NA															
161		NA															
162		NA															
163		NA															
164		NA															
165		NA															
166		NA															
167	0.01	D	0.08	94	No	AcN			15	No	SPE	Pure solvent - Multiple level	MSD		GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Thiabendazole																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.387		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.354	75	No	EtOAc			10	No	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
003	0.01	D	0.564	none	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)			TPP
004	0.01	D	0.518	110	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level	MS/MS (QQQ)	MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.414	85	No	AcN			10	No	DSPE	Matrix matched - Multiple level	IDT		GC-MS	Rec. from same batch	TPP
006	0.01	D	0.493	Std add	Yes	EtOAc			15	No		Standard addition		MS/MS (QQQ)		Via Standard addition	
007	0.05	D	0.36	83	No	EtOAc			10	No		Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	TPP
008		NA															
009	0.01	D	0.461	75	No	AcN			10	No	SPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	Phenathrene-D10
010		NA															
011	0.01	D	0.567	101.7	No	MeOH	Water		5	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
012	0.01	D	0.56	102	No	AcN			10	Yes	PSA	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
013		NA															
014	0.01	D	0.400	86.0	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
015	0.01	D	0.408	100	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016	0.01	D	0.448	103	No	AcN			10		DSPE	Matrix matched - Multiple level	MS/MS (QQQ)		LC-MS/MS (QQQ)	Rec. from same batch	
017	0.01	D	0.487	92	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.005	D	0.402	79	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.469	92.4	Yes	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020	0.01	D	0.390	111	No	AcN			15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.413	88	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	TPP
022		NA															
023	0.01	D	0.512	97	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.01	D	0.488	89.2	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	
025	0.01	D	0.426	88	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
026	0.01	D	0.511	102	Yes	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Via Standard addition	Isoproturon-D6
027	0.01	D	0.414	83	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
028	0.01	D	0.517	100	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
029	0.01	D	0.288	98	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031	0.05	D	0.464	111	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	NPD		Two columns	Rec. from same batch	
032	0.005	D	0.432		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.481	95	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.467	80	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.367	85	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level	MS/MS (QQQ)			Rec. from same batch	
036	0.01	D	1.22		No	AcN			10		SPE	Matrix matched - Multiple level		MS/MS (QQQ)			
037	0.01																
038	0.01	D	0.532	100	Yes	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.494	88.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041	0.01	D	0.442	78	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
042	0.01	D	0.342	79	No	AcN			10	No	DSPE	Matrix matched - Multiple level		Orbitrap		Rec. from same batch	Tris(1,3-dichlorisopropyl)phosphat
043	0.05	D	0.395	84.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044		NA															
045	0.01	D	0.440	91.3	No	AcN			5	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Thiabendazole																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
046	0.01	D	0.519	87.1	Yes	Acetone	Hexane	Diethyl Ether	2	No		Matrix matched - Single level	NPD		Two columns		
047	0.01	D	0.474	105.3	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
048	0.01	D	0.566	95	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049		NA															
050	0.01	D	0.495	94.5	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-TOF	Rec. from same batch	Linuron-D6
051	0.01	D	0.52		No	Acetone	DCM	Petr. Ether	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
052	0.01	D	0.526	104	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Q-TOF	Via Standard addition	Pirimicarb-D6
053		NA															
054	0.01	D	0.513	100	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Orbitrap	Rec. from same batch	TPP
055	0.01	D	0.259	86	Yes	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.440	76	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.417	106	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.005	D	0.525	105	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
060	0.01	D	0.466	97	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.367	91	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.68	91	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
063	0.01	D	0.588	8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	TPP
064	0.01	D	0.338	90	Yes	AcN (1% Acetic Ac.)			15	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
065		NA															
066	0.01	D	0.387	84	Yes	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
067		NA															
068	0.01	D	0.40	83	No	EtOAc			20		Liquid/liquid partitioning	Pure solvent - Multiple level		Diode Array Detector		Rec. from validation data	
069	0.01	ND															
070	0.01	D	0.55	95	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level	TOF	MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from validation data	TPP
071	0.01	D	0.474	94	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.560	80	No	AcN			10	No	DSPE	Pure solvent - Multiple level		Orbitrap	LC-Orbitrap	Rec. from validation data	TPP
073	0.01	D	0.522	110	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
074	0.01	D	0.272	80	No	DCM			10		SPE	Pure solvent - Multiple level		Diode Array Detector		Rec. from same batch	
075	0.01	D	0.606	87	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076	0.005	D	0.411	81.4	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level			GC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.01	D	0.401	96	No	EtOAc			50	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
078	0.01	D	0.432	82	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080	0.01	D	0.461	89	No	AcN			10		DSPE	Matrix matched - Single level		Diode Array Detector	LC-MS	Rec. from same batch	
081	0.01	D	0.517	90.0	No	MeOH	DCM		5	Yes	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-D3
082	0.01	D	0.274	96	No												
083	0.05	D	0.59	91	No	DCM			10	No		Pure solvent - Single level	MSD		GC-MS	Rec. from validation data	Endosulfan Lactone
084	0.01	D	0.495	92	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.396	89	No	EtOAc			10	Yes	Liquid/liquid partitioning	Pure solvent - Multiple level		Fluorescence	LC-MS/MS (QQQ)	Rec. from same batch	
086	0.01	D	0.393	108	No	AcN			10	No	DSPE	Matrix matched - Multiple level	MSD		GC-MS	Rec. from same batch	PCB-31
087	0.01	D	0.390	82	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP-D15
088	0.01	D	0.462	98	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13
089		NA															
090		NA															
091		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Thiabendazole																		
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
092	0.01	D	0.443	108	No	MeOH	DCM		10	Yes	ChemElut	Matrix matched - Multiple level		MS/MS (QQQ)			
093	0.01	D	0.380	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)			
094	0.01	D	0.432	97	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
095		NA															
096	0.01	D	0.318	98	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.517	91	No	AcN			1	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.545	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	GC-MS/MS (QQQ)	Via Standard addition	Sulfotep
100	0.01	D	0.389	82.1	No	AcN			15.0	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
101	0.01	D	0.470	83	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.495	85	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103		NA															
104		NA															
105	0.01	D	0.534	90	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106	0.01	D	0.462	79	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
107	0.01	D	0.594	93	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108	0.01	D	0.455	72	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.416	96.9	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110	0.01	D	0.483	74.1	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
111		NA															
112	0.01	D	0.533	101	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113	0.01	D	0.380	83	No	Acetone			20	Yes	SPE	Matrix matched - Multiple level		Diode Array Detector	LC-MS/MS (QQQ)	Rec. from same batch	
114	0.01	D	0.549	95	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
115	0.05	D	0.41	92	No	Acetone	DCM		15		SPE	Pure solvent - Multiple level		Diode Array Detector		Rec. from same batch	
116		NA															
117	0.01	D	0.447	100	Yes	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.120	73	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
119		NA															
120	0.01	D	0.577	84	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	
121	0.06	D	0.241	84	No	EtOAc			50	No		Matrix matched - Multiple level	GC/MS		GC-MS		
122		NA															
123	0.01	D	0.510	81.5	No	AcN			10	No	SPE	Matrix matched - Multiple level		Diode Array Detector	GC-MS	Rec. from same batch	
124	0.05	D	0.402	90	No	EtOAc	Water		75	No	Liquid/liquid partitioning	Pure solvent - Multiple level		UV	HPLC/DAD	Rec. from same batch	
125		NA															
126	0.01	D	0.603	103	No	Acetone	DCM	Petr. Ether	10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
127	0.05	D	0.380	80	No	EtOAc	0.1 M HCl	EtOAc	10	Yes	Liquid/liquid partitioning	Pure solvent - Multiple level		Fluorescence	GC-MS	Rec. from same batch	
128	0.01	D	0.386	86	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129	0.01	D	0.306	70-120	No	EtOAc			10			Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
130	0.01																
131	0.01	D	0.40	70	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132	0.01	D	0.375	76	No	EtOAc			20	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
133	0.01	D	0.546	98	No	AcN			10	Yes	DSPE	Pure solvent - Multiple level	MSD		GC-MS		
134	0.01	D	0.637		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
135	0.01	D	0.483	94.4	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level	TOF		LC-MS/MS (QQQ)	Rec. from validation data	

APPENDIX 7. Methods used by participants for determining pesticides.

Thiabendazole																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
136	0.01	D	0.69	84	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.520	63.5	Yes	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
138	0.01	D	0.465	90	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)			
139		NA															
140	0.01	D	0.34	92	No	AcN			10		DSPE						
141		NA															
142		NA															
143	0.01	D	0.431	92	No	EtOAc			10.007		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
144	0.01	D	0.54	101	No												
145	0.01	D	0.307	81	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
146	0.01	D	0.333	83	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148	0.01	D	0.46	97	No	AcN			10	Yes	SPE	Matrix matched - Multiple level	MSD			Rec. from validation data	Ditalimfos
149	0.01	D	0.40	73	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	Desethylatrazine
150	0.01	D	0.406	-	No	EtOAc	AcN		20	Yes	Liquid/liquid partitioning	Matrix matched - Multiple level		Fluorescence			
151	0.01	D	0.633	80	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153	0.01	D	0.475	84.6	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
154	0.01	D	0.28	70	No	Acetone	DCM	EtOAc	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
155	0.01	D	0.468	97	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
156	0.02	D	0.432	85	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
157	0.01	D	0.547	82	No	AcN			10.00	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
158		NA															
159	0.05	D	0.342	61.2	No	AcN			9.948	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
160		NA															
161	0.01	D	0.555	79.8	No	AcN			10	No		Standard addition		MS/MS (QQQ)		Rec. from same batch	
162	0.1	D	0.636	68	No	AcN			12	No	DSPE	Matrix matched - Multiple level	MSD			Rec. from validation data	
163		NA															
164		NA															
165	0.01	D	0.43	105	No	AcN			15		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
166		NA															
167	0.01	D	0.497	132	No	AcN			15	No	SPE	Pure solvent - Multiple level	NPD		GC-MS	Rec. from same batch	
168		NA															
169		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Triflumuron																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
001	0.01	D	0.385		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
002	0.01	D	0.301	61	No	EtOAc			10	No	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
003	0.01	D	0.490	none	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)			TPP
004	0.01	D	0.504	108	Yes	Acetone	DCM	Petr. Ether	15	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	PCB-138
005	0.01	D	0.399	84	No	AcN			10					MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
006	0.01	D	0.384	Std add	Yes	EtOAc			15	No		Standard addition		MS/MS (QQQ)		Via Standard addition	
007	0.1	ND															
008		NA															
009	0.01	D	0.434	116	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
010		NA															
011	0.01	D	0.440	99.5	No	MeOH	Water		5	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
012	0.01	D	0.50	109	No	AcN			10	Yes	PSA	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
013		NA															
014	0.01	D	0.336	97.5	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
015	0.01	D	0.372	111	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
016		NA															
017	0.01	D	0.431	87	No	AcN			15	No		Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
018	0.002	D	0.516	97	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
019	0.01	D	0.436	95.1	No	AcN	AcN		10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TRIS
020	0.01	D	0.315	120	No	AcN			15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
021	0.01	D	0.385	102	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
022		NA															
023	0.01	D	0.455	95	No	MeOH			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Oxfendazole
024	0.02	D	0.402	96.8	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	
025	0.01	D	0.399	96	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
026	0.01	D	0.489	106	Yes	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Via Standard addition	Isoproturon-D6
027	0.01	D	0.930	120	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
028	0.01	D	0.484	120	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
029	0.01	D	0.310	96	Yes	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
030		NA															
031		NA															
032	0.005	D	0.704		No	AcN			15	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
033	0.01	D	0.435	96	No	AcN			15	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
034	0.01	D	0.628	133	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
035	0.01	D	0.428	106	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	
036	0.0040	D	0.405		No	AcN			10		SPE	Matrix matched - Multiple level		MS/MS (QQQ)			
037	0.01																
038	0.01	D	0.749	92	No	MeOH			10	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
039	0.01	D	0.458	103.0	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
040	0.01																
041		NA															
042	0.01	D	0.357	91	No	AcN			10	No	DSPE	Matrix matched - Multiple level		Orbitrap		Rec. from same batch	Tris(1,3-dichlorisopropyl)phosphat
043	0.01	D	0.458	80.3	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
044		NA															
045	0.01	D	0.455	108	No	AcN			5	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	

APPENDIX 7. Methods used by participants for determining pesticides.

Triflumuron																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
046		NA															
047	0.01	D	0.591	91.1	No	Acetone	DCM	Petr. Ether	20	Yes	GPC	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
048	0.01	D	0.499	97	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
049		NA															
050	0.01	D	0.509	105.3	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	Linuron-D6
051	0.01	D	0.29		No	Acetone	DCM	Petr. Ether	15	No		Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	
052	0.01	D	0.407	84	No	AcN			10		DSPE	Matrix matched - Multiple level		ITQ	LC-Q-TOF	Via Standard addition	Nicarbazin
053	0.01	D	0.616	80	No	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via isotope labelled ISTD	Carbendazim-D3
054	0.01	D	0.554	81	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-Orbitrap	Rec. from same batch	TPP
055	0.01	D	0.357	95	Yes	AcN			10	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
056	0.01	D	0.436	104	No	AcN			10	Yes	SPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
057		NA															
058	0.01	D	0.543	101	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
059	0.01	D	0.511	116	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
060	0.01	D	0.445	98	No	AcN			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-TOF	Rec. from same batch	TPP
061	0.01	D	0.396	100	No	EtOAc			10	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbendazim-D4
062	0.01	D	0.58	108	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
063	0.01	D	0.449	87.2	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
064		NA															
065		NA															
066	0.01	D	0.414	98	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level	TOF		GC-MS	Rec. from same batch	HCB
067		NA															
068		NA															
069		NA															
070	0.01	D	0.53	100	Yes	MeOH	DCM		10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	TPP
071	0.01	D	0.539	116	No	AcN			10	No	Quechers without PSA	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
072	0.01	D	0.667	118	No	AcN			10	No	DSPE	Pure solvent - Multiple level		Orbitrap	LC-Orbitrap	Rec. from validation data	Flucycloxuron
073		NA															
074		NA															
075	0.01	D	0.491	95.5	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	TPP
076	0.01	D	0.393	80.6	Yes	AcN			15	No	DSPE	Matrix matched - Multiple level			GC-MS/MS (QQQ)	Rec. from same batch	TPP
077	0.01	D	0.390	95	No	EtOAc			50	Yes		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
078	0.01	D	0.435	90	No	EtOAc			10	Yes	Filtration	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	Pirimicarb-D6
079		NA															
080		NA															
081	0.01	D	0.341	107.5	No	MeOH	DCM		5	Yes	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-D3
082		NA															
083		NA															
084	0.01	D	0.504	95	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
085	0.01	D	0.565	105	No	EtOAc			10	No	SPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	Mecoprop-D3
086	0.01	D	0.136	79	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS	LC-MS	Rec. from same batch	TDCPP
087		NA															
088	0.01	D	0.503	113	No	MeOH			10	No	Filter	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Carbaryl-C13
089		NA															
090		NA															
091		NA															
092	0.01	D	0.549	105	No	MeOH	DCM		10	Yes	ChemElut	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
093	0.01	D	0.449	88.7	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Bendazone-D6

APPENDIX 7. Methods used by participants for determining pesticides.

Triflumuron																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
094	0.01	D	0.469	109	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
095		NA															
096	0.01	D	0.381	96	No	AcN			10	Yes	DSPE	Matrix matched - Single level		MS/MS (QQQ)		Rec. from same batch	
097	0.01	D	0.511	95	No	AcN			1	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
098		NA															
099	0.01	D	0.473	100	No	AcN			5		DSPE	Standard addition		MS/MS (QQQ)	Two columns	Via Standard addition	Sulfotep
100	0.01	D	0.312	91.2	Yes	AcN			15.0	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
101	0.01	D	0.374	87	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP, Pirimicarb-D6
102	0.01	D	0.508	79	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Chlorpyrifos-D10
103		NA															
104		NA															
105	0.01	D	0.507	99	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from validation data	Tris-(1,3- dichloroisopropyl) phosphate
106		NA															
107	0.01	D	0.592	93	No	AcN			10		DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
108	0.02	D	0.503	110	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
109	0.01	D	0.483	108.4	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
110		NA															
111		NA															
112	0.01	D	0.636	92	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
113		NA															
114	0.01	ND															
115		NA															
116		NA															
117	0.01	D	0.403	101	No	AcN			10	No		Matrix matched - Multiple level		MS	LC-MS/MS (QQQ)	Rec. from same batch	
118	0.01	D	0.267	79	No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS/MS (QQQ)	Rec. from same batch	
119		NA															
120	0.01	D	0.476	100	No	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)		Via Standard addition	Nicarbazin
121		NA															
122		NA															
123	0.01	D	0.450	97	No	AcN			10	No	SPE	Matrix matched - Multiple level		Diode Array Detector	Two columns	Rec. from validation data	
124		NA															
125		NA															
126	0.01	D	0.498	99	No	MeOH			10	No	NA2SO4	Pure solvent - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	Nicarbazim
127	0.02	D	0.500	80	No	AcN			10		SPE	Matrix matched - Multiple level		MS	LC-MS	Rec. from same batch	
128	0.01	D	0.342	79	No	Acetone	DCM	Petr. Ether	15	No		Matrix matched - Multiple level		MS/MS (QQQ)	GC-MS	Rec. from same batch	
129		NA															
130		NA															
131	0.01	D	0.50	140	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
132		NA															
133		NA															
134	0.01	D	0.405		No	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)		
135	0.01	D	0.385	110.0	No	AcN			10.0	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	Standard addition	Rec. from validation data	
136	0.01	D	0.66	80	Yes	AcN			10	Yes	QUECHERS	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	spiking at 0.1 mg/Kg	TDCPP=tri-(1,3-dichlorisopropyl)-phosphate
137	0.01	D	0.466	95.9	No	AcN			10	No	DSPE	Pure solvent - Multiple level		MS/MS (QQQ)		Rec. from same batch	TPP
138	0.01	D	0.456	108	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	TPP
139		NA															

APPENDIX 7. Methods used by participants for determining pesticides.

Triflumuron																	
Lab. Code	Reporting Level (mg/kg)	Scope of Method	Official Concentration (mg/kg)	Recovery %	Recovery Correction in Routine Work?	Solvent 1	Solvent 2	Solvent 3	Sample Weight (g)	pH Adjustment	Clean Up	Calibration	GC Detector	HPLC Detector	Confirmation Method	Recovery Approach	ISTD Used
140	0.01	D	0.15	93	No	AcN			10		DSPE						
141		NA															
142		NA															
143		NA															
144	0.01	D	0.52	105.5	No												
145	0.01	D	0.305	83	Yes	AcN			10	No	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	TPP
146	0.01	D	0.469	105	No	Acetone			20	No	Liquid/liquid partitioning	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
147		NA															
148		NA															
149	0.01	D	0.51	76	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)		Via Standard addition	Desethylatrazine
150		NA															
151	0.01	D	0.478	100	Yes	AcN			10	No	DSPE	Standard addition		MS/MS (QQQ)	LC-MS/MS (QQQ)	Via Standard addition	
152		NA															
153	0.01	D	0.449	92.8	No	AcN			10	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from validation data	
154		NA															
155	0.01	D	0.357	92	No	AcN			10	No	DSPE	Matrix matched - Single level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
156		NA															
157	0.01	D	0.453	90	Yes	AcN			10.00	Yes	DSPE	Matrix matched - Multiple level		MS/MS (QQQ)	LC-MS/MS (QQQ)	Rec. from same batch	
158		NA															
159		NA															
160		NA															
161	0.01	D	0.308	93.6	No	AcN			10	No		Standard addition		MS/MS (QQQ)		Rec. from same batch	
162		NA															
163		NA															
164		NA															
165		NA															
166		NA															
167	0.01	D	0.321	115	No	AcN			15	No	SPE	Pure solvent - Multiple level		Diode Array Detector		Rec. from same batch	
168		NA															
169		NA															

ANNEX 1. Protocols and Target list of pesticides to be sought.

GENERAL PROTOCOL

for EU Proficiency Tests for Pesticide Residues in Food and Feed

Introduction

This protocol contains general procedures valid for all European Union Proficiency Tests (EUPTs) organised on behalf of the European Commision, DG-SANCO by the four European Union Reference Laboratories (EURLs) for pesticide residues in food and feed. These EUPTs are directed at all National Reference Laboratories (NRLs) and Official Laboratories (OfLs) in the EU Member States. Laboratories outside this EURL/NRL/OfL-Network may be permitted to participate on a case-by-case basis after consultation with DG- SANCO.

The following four EURLs for pesticide residues were appointed by DG-SANCO based on regulation 882/2004/EC:

- EURL for Fruit and Vegetables (EURL-FV),
- EURL for Cereals and Feedingstuff (EURL-CF),
- EURL for Food of Animal Origin and Commodities with high Fat Content (EURL-AO) and
- EURL for Single Residue Methods (EURL-SRM)

NRLs are appointed by the National Food or Feed Authorities based on the provisions of Regulation 882/2004/EC, whereas OfLs are laboratories that are actively involved in official controls in the sense of Article 26 of Regulation 396/2004/EC (e.g. by conducting pesticide residue analyses within the framework of national and/or EU control programmes).

According to Article 28 (3) of Regulation 396/2005/EC all laboratories analysing samples for the official controls on pesticide residues shall participate in the European Union Proficiency Test(s) organised by the European Union. The aim of these EUPTs is to obtain information regarding the quality, accuracy and comparability of the pesticide residue data in food and feed sent to the European Union within the framework of the national control programmes and the co-ordinated multiannual community control programme. Participating laboratories will be provided with an assessment of their analytical performance and the reliability of their data – compared to the other participating laboratories.

EUPT-Panel

EUPTs are organised by individual EURLs or by more than one EURL in cooperation with one another.

An **Organising Team** is appointed from the EURL(s) in charge. This team is responsible for all administrative and technical matters concerning the organisation of the PT, e.g. PT-announcement, production of the test material, undertaking the homogeneity and stability tests, packing and shipment of test material, and the handling and first assessment of participants' results.

Approved by DG SANCO, expert scientists with long experience in pesticide residue analysis will be chosen as members for a joint **EUPT-Scientific Committee** (SC). This Committee entitles the following two subgroups:

a) An independent **Quality Control Group** (QCG) and

b) An **Advisory Group** (AG)

The SC's role is to help the organisers in making decisions regarding the EUPT design: selection of pesticides to be included in the Target Pesticide List (see below), the establishment of the Minimum Required Reporting Levels (MRRLs), the evaluation and statistical treatment of the results and the drafting of the protocol and final report. The QCG has the additional function of supervising the quality of the EUPT and to assist the EURL in confidential aspects such as the choice of the pesticides to be present in the test material and the concentration levels at which they should be present in the test material.

The EUPT-Organising Team and the EUPT-Scientific Committee (the AG and the QCG) together form the **EUPT-Panel**. The present EUPT General Protocol was drafted by the EUPT-Panel and was approved by DG-SANCO.**EUPT Participants**All NRLs operating in the same area as the organizing

ANNEX 1. Protocols and Target list of pesticides to be sought.

EURL are legally oblied to participate in EUPTs – as well as all OfLs whose scope overlaps with that of the EUPT. The four EURLs will be annually issuing and distributing via the EURL website, a joint list of all OfLs that shall participate in all EUPTs to be conducted within a given year. The "list of obliged labs" is to be considered as tentative as it will be only based on information submitted by OfLs concerning their commodity scope and status. The legal obligation of NRLs and OfLs to participate in EUPTs arises from:

-Art. 28 of Reg. 396/2005/EC (for all OfLs analyzing for pesticide residues within the framework of official controls in food or feed)

-Art. 33 of Reg. 882/2004/EC (for all NRLs)

If necessary the "list of obliged labs" will be updated within the same year to take account of any changes in the lab profiles.

NRLs are responsible for checking whether all relevant OfLs within their network are included in the list of obliged laboratories and whether the contact information is correct.

The NRLs should further make arrangements to urge all relevant OfLs within their network to participate in all EUPT relevant to them.

OfLs are urged to keep their own profiles within the EURL-DataPool up-to-date, especially their commodity and pesticide scopes and their contact information.

Any OfL not intending to participate in a given EUPT will have to explain to the EURL its reasons for non-participation without prejudice of any legal action taken against it for not participating. This also applies to initially participating laboratories that do not deliver results.

Official labs from EFTA countries and EU-candidate countries are also welcome to participate in the EUPTs. In special cases, the Organisers, upon consultation with DGSANCO, will also allow laboratories outside of the EURL/NRL/OfL-Network to participate in EUPTs.

Confidentiality:

The proprietor of all EUPT data is DG-SANCO and thus has access to all information.

In each EUPT, the laboratories are given a unique code, initially only known to themselves and the Organisers. In the final EUPT-Report the list of participating laboratories will not be linked to their laboratory codes. It should be noted that the organisers, at the request of the Commission, may present the results to the Standing Committee on the Food Chain and Animal Health on a country-to-country basis. It is therefore possible that a link between codes and National Reference Laboratories could be made, especially for those Member States where only one laboratory has participated.

As laid down in Regulation 882/2004, NRLs are responsible for evaluating and improving their OfL network. For this reason, the EURLs will confide the laboratory codes of OfLs to their NRLs together with the final report. This will allow the NRLs to obtain the correlation between the laboratories within their network and their performance. The EURLs furthermore reserve the right to share the EUPT-results and codes among them, for example for the purpose of evaluating the overall lab-performance as requested by DG-SANCO.

Communication

The official language used in all EUPTs is English.

Communication between participating laboratories during the test on matters concerning this PT exercise is not permitted.

Announcement / Invitation Letter

The announcement of the individual EUPT will be issued at least 3 months before the Test Items is distributed to the laboratories. The announcement will be published on the EURL portal and additionally distributed via e-mail to the NRL/OfL mailing list available to the EURLs. The announcement will contain an invitation letter, details on how to register and where to find additionally-related documents, as well as some preliminary information on the specific protocol such as the tentative calendar, the name of the commodity expected to be used, and the tentative Target Pesticide List.

ANNEX 1. Protocols and Target list of pesticides to be sought.

Target Pesticide List

This list contains all analytes (pesticides and metabolites), to be tested, along withthe Minimum Required Reporting Levels (MRRLs) valid for the specific EUPT. The MRRLs are based upon the lowest MRLs found either in Regulation 396/2005/EC or the Commission Directive 2006/125/EC (Baby Food Directive).

In some cases, that will be clearly marked, results calculated according to the pesticide residue definition may be requested with those residue definitions differing from the legal ones in certain cases.

Specific Protocol

For each EUPT a Specific Protocol will be published at least 2 weeks before the Test Items is distributed to the laboratories. This protocol will contain all the information previously included in the Invitation Letter but in its final version, in addition to information on payment for delivery service and/or participation. Itwill furthermore include instructions on how to handle the Test Item upon receipt, on how to submit results, and other relevant information.

General procedures for reporting results

Laboratories are responsible for reporting their results to the Organiser within the stipulated deadlines. Any pesticide that was targeted by a participating laboratory should be reported as "analysed". Each laboratory must report one result for each of the analytes detected in the Test Items, using the analytical procedure(s) that they would routinely use for each compound for monitoring purposes.The residue levels of the pesticides detected should be expressed in mg/kg and in some cases of products of animal origin in µg/kg fat.

One test Item is intentionally treated with pesticides and one is not. Both Test Items have to be analysed by the laboratories and any pesticide detected in them shall be reported.

Correction of results for recovery

According to the Method Validation and Quality Control Procedures for Pesticide Residues Analysis in Food and Feed, (Document SANCO), it is common practice that pesticide analysis results are not corrected for recovery, but may be corrected if the average recovery is significantly different from 100 % (typically if outside of the 70-120 % range with good precision), therefore, if residue data are adjusted for recovery, then this must be indicated on the specific field of the 'reporting result form'. Laboratories are required to report whether their results were adjusted for recovery and, if this was the case, the recovery (as percentage) used should be also reported . No recovery data is required where correction for recovery results automatically from using the 'standard addition(s)' approach, or from the use of isotopically-labelled internal standards (in both cases with spiking of the Test Item at the beginning of the extraction procedures). In these cases, the laboratories should report the calculation technique used for the results instead of the recovery.

Methodology information

All laboratories are requested to provide information on the analytical method(s) they have used. If no sufficient information on the methodology used is provided, the Organiser reserves the right not to accept the analytical results reported by the participants concerned.

Results evaluation The procedures used for the treatment and assessment of results are described below.

- *False Positives*

These are the results reported above the MRRLs that suggest the presence of pesticides that were listed in the Target Pesticide List, but which were: (i) not detected by theOrganiser, even after repeated analysis, and/or (ii) not detected by the overwhelming majority (e.g. 95 %) of the participating laboratories that had targeted the specific pesticide. However, in certain instances, case-by-case decisions by the EUPT-Panel may be necessary.

Any results reported that are lower than the MRRL will not be considered as false positives, even though these results should not have been reported.

- *False Negatives*

These are results for pesticides reported by the laboratories as "analysed" but without reporting numerical values, although they were used by the Organiser to treat the Test Item and were detected by the Organiser and the majority of the participants that had targeted these specific

pesticides, at or above the MRRL. Results reported as <RL (RL=Reporting Limit of the laboratory) will be considered as not detected and will be judged as false negatives. However, in certain instances case-by-case decisions by the EUPT-Panel will be necessary.

In cases of the assigned value being less than a factor of 4 times the MRRL, false negatives will not be assigned as this is not statistically justifiable.

- ***Estimation of the true concentration (μ)***

The "true" concentration (assigned value) will be typically estimated using the robust median of all the results. In special justifiable cases, the EUPT-Panel may decide to use only part of the population of results to establish the median (e.g. only results with z-scores ≤ 5.0 or by excluding results generated by a method that demonstrably generates significantly biased results e.g. due to incomplete extraction).

- ***Standard deviation of the assigned value (target standard deviation)***

The target standard deviation (δ) of the assigned value will be calculated using a Fit-For-Purpose Relative Standard Deviation (FFP-RSD) approach, as follows:

$$\delta = b_i * \mu_i \quad \text{with } b_i = 0.25 \text{ (25 \% FFP-RSD)}$$

The percentage FFP-RSD is set at 25 % based on experience from previous EUPTs. The EUPT-Panel reserves the right to also employ other approaches on a case-by-case basis considering analytical difficulties, and experience gained from previous proficiency tests.

- ***z-scores***

This parameter is calculated using the following formula:

$$z_i = (x_i - \mu_i) / \delta_i$$

Where: x_i is the value reported by the laboratory, μ_i the assigned value, and δ_i the standard deviation at that level for each pesticide (i).

Any z-scores of > 5 will be reported as >5 and where combined z-scores of many pesticides are calculated a value of "5" will be used.

z-Scores will be interpreted in the following way:

$|z| \leq 2$ Acceptable

$2 < |z| \leq 3$ Questionable

$|z| > 3$ Unacceptable

For results that are considered to be false negatives, z-scores will be calculated using the MRRL or RL (the laboratory's Reporting Limit) if the RL < MRRL.

The EUPT-Panel will consider whether, or not, these values should appear in the z-score histograms.

A z-score will not be calculated for any false positive result.

- ***Category A and B classification***

The EUPT-Panel will decide whether to classify the laboratories into two groups, A or B. Laboratories that detect a sufficiently high percentage of the pesticides present in the Test Item (e.g. at least 90 %) and reported no false positives will have demonstrated 'sufficient scope' and will therefore be classified in Category A. The 90 % criterion will be applied following Table 1.

ANNEX 1. Protocols and Target list of pesticides to be sought.

Table 1. No. of Pesticides needed to be detected to have sufficient scope.

No. of Pesticides Present in the Sample (N)	90 %	No. of Pesticides needed to be detected to have sufficient scope (n)	n
3	2.7	3	N
4	3.6	4	
5	4.5	4	N - 1
6	5.4	5	
7	6.3	6	
8	7.2	7	
9	8.1	8	
10	9.0	9	
11	9.9	10	
12	10.8	11	
13	11.7	12	
14	12.6	13	
15	13.5	13	N - 2
16	14.4	14	
17	15.3	15	
18	16.2	16	
19	17.1	17	
20	18.0	18	
21	18.9	19	
22	19.8	20	
23	20.7	21	
24	21.6	22	
25	22.5	22	N - 3
26	23.4	23	

For evaluation of the overall performance of laboratories within Category A, the Average of the Squared z-Score (AZ^2) 7,8 will be used.

Laboratories within Category B will be ranked according to the total number of pesticides present in the sample. The number of acceptable z-scores achieved will be presented too. The EURL-Panel retains the right to calculate combined z-scores (see below) also for Category B labs, e.g. for informative purposes, provided that a minimum number of results (z-scores) is available.

- ***Combined z-scores***

For evaluation of the overall performance, the Average of the Squared z-Score (AZ^2) will be used. The AZ^2 is calculated as follows:

$$SZ^2 = \frac{\sum_{i=1}^{n} |Z_i||Z_i|}{n}$$

This formula multiplies each z-score by itself and not by an arbitrary number. Based on the AZ2 achieved, the laboratories are classified as follows:

Formula	Good	Satisfactory	Unsatisfactory
AZ^2	≤ 2	$2 < AZ^2 \leq 3$	$AZ^2 > 3$

Combined z-scores are considered to be of lesser importance than the individual z-scores. The EUPT-Panel retains the right not to calculate AZ^2 if it is considered as not being useful. In the case of EUPT-SRMs, where only few results per lab are available, the Average of the Absolute z-scores (AAZ) will be calculated for informative purposes, but only for labs within Category A and as long as 5 or more z-scores are available.

Publication of results

The EURLs will publish a preliminary report, containing tentative medians and z-score values for all pesticides present in the test sample, within 2 months from the deadline for result submission. The Final Report will be published shortly after the EUPT-Panel has discussed the results. Taking into account that the EUPT-Panel meets normally only once a year to discuss the results of all EUPTs organised annually by the EURLs in the running year, the final report may be published up to 8 months after the deadline for results submission.

Certificates of participation

Along with the Final Report, the EURL Organiser will deliver a Certificate of Participation to each participating laboratory with the z-score achieved for each pesticide and the combined z-scores calculated (if any) together with the classification into Category A and B.

Feedback

After the distribution of the final report of an EUPT, participating laboratories will be given the opportunity to give their feedback to the Organiser and make suggestions for future improvements.

Follow-up activities

Laboratories are expected to undertake activities to trace back to the source of any erroneous or (strongly) deviating results - including all false positives and false negatives, along with results with $|z|>2$.

Upon request, the laboratory's corresponding NRL, or EURL, are to be informed of the outcome of these traceability activities.

According to instructions by DG-SANCO, the "Protocol for management of underperformance in comparative testing and/or lack of collaboration of National Reference Laboratories (NRLs) with EU Reference Laboratories (EURLs) activities" will be followed for NRLs.

Disclaimer

The EUPT-Panel retains the right to change any parts of this EUPT – General Protocol based on new scientific or technical information. Any changes will be communicated in due course.

Laboratory Rights

After the Final Report has been sent, the laboratories will have the right to communicate the nonconformity of their result evaluation in a written form. Any detected errors in the preliminary report should also be reported to the Organiser. The Organiser, assisted by the Scientific Committee, will decide upon any re-evaluation and will give a corresponding explanation.

ANNEX 1. Protocols and Target list of pesticides to be sought.

EUPT-FV14 SPECIFIC PROTOCOL

European Union Proficiency Test for
Pesticide Residues in Fruits and Vegetables
(2012)

Introduction

This protocol is complementary to the General Protocol of EU Proficiency Tests (EUPT) for Pesticide Residues in Food and Feed. This Proficiency Test is organised by the EURL for Pesticide Residues in Fruits and Vegetables covering Multiresidue Methods (MRM) of analysis.

Test material

This proficiency test is based on the pesticide residues analysis of pears. The pears were grown in Aragón, Spain.

The pesticide treatments will be carried out post-harvest using either commercial formulations in micro-spray solutions or using standard solutions. The test material will be frozen (using liquid nitrogen), chopped, homogenised and sub-sampled into polyethylene bottles that have previously been coded.

Ten of these bottles containing the test material will be chosen randomly, and analysed to check for homogeneity.

The test material will be stored frozen (–20ºC) prior to shipment to participants.

Two bottles, again chosen randomly, will be analysed over a period of time to confirm the stability of the pesticides in the test material (firstly, when the test materials are shipped, then a few days after the receipt deadline for participants´ results). There will be one further analysis during this period reproducing the sample shipment i.e. maintaining the sample at room temperature for a few days to see if there is any degradation of any of the pesticides present in the test material.

These results will not be included in the proficiency test's statistical analysis. The aim is solely to check pesticide stability during the shipping process and over the duration of the proficiency test.

All analytical determinations concerning the test material treatment analysis will be performed in a laboratory which is ISO 17025 accredited.

Steps to follow

This Proficiency Test will be made up of the following 8 essential steps:

1.To participate, each laboratory must complete the Application Form on-line, available on the EURL-FV Web page, before the deadline stipulated on the Calendar. It is recommended that laboratories download the Target Pesticide List from this web site. Laboratories should carefully read the Target Pesticide List, where important information about the reporting of the results, as

well as the Minimum Required Reporting Limits (MRRLs), is given. The MRRLs do not always correspond with the EU MRLs set for pears.

2. Laboratories will then receive an e-mail confirming their participation in this exercise, and assigning them each a Laboratory Code. Laboratories with this code will be able to access the restricted area containing the replying forms using their login information - consisting of their **USER NAME**, which is the Laboratory Code expressed as **Labxxx** (three digits with no spaces between them) and their **PASSWORD**, as chosen on the application form.

3. The sample delivery will cost **175 Euros** for EU and EFTA laboratories and **200 Euros** for any other participants. The payment procedure must have started before 20th February. An e-mail showing the bank transfer confirmation, or similar, must have been sent beforehand; or may be requested at any time by the Organiser. **Payments without a Laboratory Code or Invoice Number identifying them will not be considered as paid.**

4. **Form 0 - Laboratory Scope** will be placed in the restricted area and will be open to participants from the 1st – 15th February 2012, prior to test material shipment. The aim is that laboratories provide information regarding their scope of analysis before receipt of the test material and detailed information regarding which pesticide is within the accredited scope of the lab and which is not.

5. When the participant laboratories receive the test material (and not before), they must enter the restricted area again and submit **Form 1 - Test Material Receipt** to inform the Organiser that they have accepted the test material. This Form has a deadline: 24th February 2012, which must be met. If no test material has been received by this deadline, please contact the Organiser via e-mail (cferrer@ual.es, omalato@ual.es and pmedina@ual.es).

6. The participant laboratories must respect the deadline for submitting their results - 14th March 2012 - using **Form 2** – **Measurement Uncertainty and Detected for**; **Form 3** - **Results** and **Form 4** - **Methods Form** on-line.

7. One final form, **Form 5 - Additional Information** must be filled in after the deadline has passed. This Form will be available from 21st – 28th March 2012. Not all laboratories may need to fill this in. It will depend upon information reported on previous Forms.

8. The Organiser will evaluate the results at the end of the proficiency test, once the deadline for receipt of results has passed. The Organiser will upload an electronic version on the EURL-FV web site and afterwards send a hard copy of the Final Report to each participant laboratory. This report will include information regarding the design of the test, the homogeneity and stability results, a statistical evaluation of the participant's results as well as graphical displays of the results and any conclusions. Further relevant information considered to be of value may also be included.

Form 0 - Laboratory Scope

Before the participant laboratories receive the sample, the restricted area will be open so that their laboratory scopes can be recorded. Form 0 will need to be filled in to ascertain which of the pesticides in the Target Pesticide List were actually sought. It is possible that the laboratory, after receipt of the test material, performs further validations for some of the pesticides and then reports results for these pesticides. Therefore, the information on this Form will be made available

again for possible modification in Form 2. This year no residue definition needs to be followed so only individual contributions will be requested.
This form will also request information on which of the pesticides sought by the laboratory is within the laboratory's accredited scope.

Amount of Test Material

Participants will receive:

- Approximately 300 g of pear test material treated with pesticides.
- Approximately 300 g of 'blank' pear test material.

Shipment of Test Materials

All Test Materials will be frozen and packed in polystyrene boxes surrounded in dry ice and packed into cardboard boxes.
The shipment of the test materials will be carried out over a one-week period from the 20th February 2012. The Organiser will try to ensure that all the packages arrive on the same day to each laboratory. An information message will be sent out by e-mail before shipment. Laboratories must make their own arrangements for the receipt of the package. They must inform the Organiser of any public holidays in their country/city during the delivery period given in the calendar, as well as making the necessary arrangements for receiving the shipment, even if the laboratory is closed.

Advice on Test Material Handling

Once received, the test material should be stored deeply frozen (-18ºC or less) prior to analysis thus avoiding any possible deterioration/spoilage. The test material should be mixed thoroughly before taking the analytical portion(s).
All participants should use their own routine standard operating procedures for extraction, clean-up and analytical measurement and their own reference standards for identification and quantification.

Form 1 - Test Material Receipt

Once the laboratory has received the test materials, their arrival must be reported to the Organiser using Form 1 in the restricted area; filling in the date of receipt, the condition of the test material, and its acceptance. The deadline for acceptance (or non-acceptance) is 24th February 2012. If the laboratory does not respond by this date, the Organiser will assume that the test material has been received and accepted.
If any laboratory has not received the test material by 23rd February, they must inform the Organiser **immediately** by e-mail (cferrer@ual.es and omalato@ual.es)

Submission of results:

Once the laboratory has analysed the test material and is ready to submit their data, they must enter their results at various steps on 3 forms by accessing the restricted area in the EURL –FV web site: http://www.eurl-pesticides.eu

ANNEX 1. Protocols and Target list of pesticides to be sought.

Detected Pesticides – Form 2

In Form 2, the information entered in Form 0 – Laboratory Scope, will be made available again. Those new pesticides sought should be indicated in this step.

For each pesticide included in the laboratory scope, the Limit of Quantification (LOQs) will be requested. The MRRL and the participant's own LOQ will be used to help identify false negative results.

The laboratory should mark the pesticides which have been detected twice given that these have been sought and then detected.

Before this, a new question will have been requested as to which approach was used for the relative expanded uncertainty estimation in multiresidue methods for fruits and vegetables.

This form can be filled in at various stages - so once entered, the data will be safe, and you can add further data at a later date.

Results – Form 3

In this step, the laboratory should report the measured concentrations for each determination. All concentrations must be expressed in mg/kg together with the recovery as a percentage.

The number of significant figures should be based on the guidelines provided in SANCO/12495/2011. Additional significant figures may be recorded for the purpose of statistical analysis. Please bear this in mind when reporting data:

- Residue levels <0.010 mg/kg - to be expressed to two significant figures (e.g. 0.0058 mg/kg)
- Residue levels ≥ 0.010 mg/kg - to be expressed to three significant figures (e.g. 0.0792, 0.156, 1.64, 10.3 mg/kg)

Results should not be reported where a pesticide was not detected or was detected below the laboratory LOQ. In both cases, this should be recorded as 'ND' or <LOQ. If a pesticide was not sought, it should be recorded as 'NA' (Not Analysed). The actual results/residue levels measured must be reported as numbers.

Methods – Form 4

In this step, the laboratory must report the details of the analytical methods they used. A list including all the pesticides detected in the sample will be shown along with a pesticide reference number. Laboratories may describe a method for the first pesticide and use this pesticide reference number to refer to other pesticides determined using the same method.

Again in this form, information must always be saved so that you can come back to it and continue at any time before the final reporting deadline - which for all forms is 14th March 2012. Any results reported after this deadline will not be included in the statistical treatment, nor in the final report.

It should **not** be assumed that only pesticides registered for use on pears are present in the test material.

ANNEX 1. Protocols and Target list of pesticides to be sought.

False Negatives or Further Information – Form 5

This Form will be available only for those laboratories reporting that they sought a pesticide present in the test material but for which no method was reported in Form 4. If a laboratory accesses this Form and it is empty, this will mean that there is no need to enter further information. This Form will be available after the deadline is over - from 21st – 28th March 2012.

Calendar

ACTIVITY	DATE
- Publishing the Target Pesticide List and Calendar on the Web page	November 2011
- Receiving Application Form from invited laboratories.	From 15th Dec. 2011 to 18th January 2012
- Filling in the Laboratory Scope from the Participants: Form 0	1st -15th February 2012
- Sample distribution.	20th February 2012
- Deadline for receiving sample acceptance: Form 1	24th February 2012
- Deadline for receiving results: Form 2, Form 3 and Form 4	14th March 2012
- Filling in Form 5	21st – 28th March 2012
- Preliminary Report: provisional results, medians and z-scores.	April 2012
- Final Report to the Laboratories	December 2012

Cost of test material shipment.

EU and EFTA laboratories will be charged **175€** for the shipment cost. Other laboratories will be charged **200 €**. Regarding payment procedures - each laboratory can specify their details and invoice requests when applying for the test. Payment details are as follows:

BANK NAME: CAJAMAR - Caja Rural Sociedad Corporativa de Crédito
BANK ACCOUNT OWNER: Universidad de Almeria
BANK ADDRESS: Office Number 990. Universidad de Almeria. Spain
ACCOUNT NUMBER: 30580130172731005000
IBAN: ES0730580130172731005000
SWIFT: CCRIES2A
CONCEPT: Invoice No. or Lab Code

Contact information

The official organising group details are as follows:

Universidad de Almería. Edificio Químicas CITE I
Ctra. Sacramento s/n
04120 Almería - Spain
Fax No.: +34 950015483

ANNEX 1. Protocols and Target list of pesticides to be sought.

Organising team (e-mail and phone no.):

Dr. Amadeo R. Fernández-Alba EURL-FV amadeo@ual.es +34 950015034

Dr. Paula Medina Pastor EURL-FV pmedina@ual.es +34 950014102

Ms. Carmen Ferrer Amate EURL-FV cferrer@ual.es +34 950015531

Mr. Octavio Malato RodríguezEURL-FV omalato@ual.es +34 950214423

Quality Control Group

Dr. Antonio Valverde, University of Almería, Spain

Mr. Stewart Reynolds, Senior Chemist, FERA, York, United Kingdom

Statistical Group

Dr. Carmelo Rodriguez, Senior Mathematician, University of Almeria, Spain

Advisory Group

Dr. André de Kok, Senior Chemist, NVWA, Wageningen, The Netherlands.

Dr. Tuija Pihlström, Senior Chemist NFA, Uppsala, Sweden.

Dr. Sonja Masselter, Senior Chemist, AGES, Innsbruck, Austria.

Dr. Darinka Stajnbaher, Senior Chemist, Maribor, Slovenia.

Dr. Magnus Jezussek, Senior Chemist, Erlangen, Germany.

Dr. Miguel Gamón, Senior Chemist, Laboratorio Agroalimentario, Valencia, Spain.

Dr. Metter Erecius Poulsen, Senior Chemist, NFI, Copenhagen, Denmark.

Mr. Ralf Lippold, Senior Chemist, CVUA, Freiburg, Germany.

Dr. Michelangelo Anastassiades, Senior Chemist, CVUA, Stuttgart, Germany.

ANNEX 1. Protocols and Target list of pesticides to be sought.

TARGET PESTICIDE LIST FOR THE EUPT-FV 14

Pesticide (*New pesticides this year)	**MRRL (mg/Kg)**
3-hydroxy-carbofuran	0.01
Acephate	0.01
Acetamiprid	0.01
Acrinathrin	0.01
Aldicarb	0.01
Aldicarb Sulfone	0.01
Aldicarb Sulfoxide	0.01
Amitraz	0.01
Azinphos-methyl	0.01
Azoxystrobin	0.01
Benfuracarb	0.01
Bifenthrin	0.01
Bitertanol	0.01
Boscalid	0.01
Bromopropylate	0.01
Bromuconazole	0.01
Bupirimate	0.01
Buprofezin	0.01
Cadusafos	0.006
Captan	0.01
Carbaryl	0.01
Carbendazim (sum of benomyl and carbendazim expressed as carbendazim)	0.01
Carbofuran	0.01
Carbosulfan	0.01
Chlorfenapyr	0.01
Chlorfenvinphos	0.01
Chlorobenzilate	0.01
Chlorothalonil	0.01
Chlorpropham (only parent compound)	0.01
Chlorpyrifos	0.01
Chlorpyrifos-methyl	0.01
Clofentezine (only parent compound)	0.01
Clothianidin	0.01
Cyfluthrin (cyfluthrin incl. other mixtures of constituent isomers (sum of isomers))	0.01
Cypermethrin (cypermethrin incl. other mixtures of constituent isomers (sum of isomers))	0.01
Cyproconazole	0.01
Cyprodinil	0.01
Deltamethrin	0.01
Demeton-S-methylsulfone	0.006
Desmethyl-pirimicarb	0.01
Diazinon	0.01
Dichlofluanid (only parent compound)	0.01
Dichlorvos	0.01
Dicloran	0.01
Dicofol	0.01
Difenoconazole	0.01
Diflubenzuron*	0.01
Dimethoate	0.003
Dimethomorph	0.01
Dimethylaminosulfotoluidide (DMST)*	0.01
Diphenylamine	0.01
DMF (2,4-Dimethylformanilide)	0.01
DMPF (N-2,4-Dimethylphenyl-N-Methyl-formamidine)	0.01
Endosulfan alpha	0.01
Endosulfan beta	0.01
Endosulfan sulfate	0.01
EPN	0.01
Epoxiconazole	0.01
Ethion	0.01
Ethoprophos	0.008
Etofenprox	0.01

ANNEX 1. Protocols and Target list of pesticides to be sought.

Pesticide (*New pesticides this year)	**MRRL (mg/Kg)**
Fenamiphos	0.01
Fenamiphos sulfone	0.01
Fenamiphos sulfoxide	0.01
Fenarimol	0.01
Fenazaquin	0.01
Fenbuconazole	0.01
Fenhexamid	0.01
Fenitrothion	0.01
Fenoxycarb	0.01
Fenpropathrin	0.01
Fenpropimorph	0.01
Fenthion	0.01
Fenthion oxon	0.01
Fenthion oxon sulfone	0.01
Fenthion oxon sulfoxide	0.01
Fenthion sulfone	0.01
Fenthion sulfoxide	0.01
Fipronil (only parent compound)	0.004
Fludioxonil	0.01
Flufenoxuron	0.01
Fluquinconazole	0.01
Flusilazole	0.01
Flutriafol	0.01
Folpet	0.01
Fosthiazate	0.01
Hexaconazole	0.01
Hexythiazox	0.01
Imazalil	0.01
Imidacloprid	0.01
Indoxacarb (Indoxacarb as sum of the isomers S and R)	0.01
Iprodione	0.01
Iprovalicarb	0.01
Isofenphos-methyl	0.01
Kresoxim-methyl	0.01
Lambda-Cyhalothrin	0.01
Linuron	0.01
Lufenuron	0.01
Malaoxon	0.01
Malathion	0.01
Mepanipyrim (only parent compound)	0.01
Metaflumizone	0.01
Metalaxyl and metalaxyl-M	0.01
Metconazole	0.01
Methamidophos	0.01
Methidathion	0.01
Methiocarb	0.01
Methiocarb sulfone	0.01
Methiocarb sulfoxide	0.01
Methomyl	0.01
Methoxyfenozide	0.01
Monocrotophos	0.01
Myclobutanil	0.01
Omethoate	0.003
Orthophenylphenol	0.01
Oxadixyl	0.01
Oxamyl	0.01
Oxydemeton-methyl	0.006
Paclobutrazole	0.01
Paraoxon-methyl	0.01
Parathion-ethyl	0.01
Parathion-methyl	0.01
Penconazole	0.01
Pencycuron	0.01
Pendimethalin	0.01

ANNEX 1. Protocols and Target list of pesticides to be sought.

Pesticide (*New pesticides this year)	**MRRL (mg/Kg)**
Phenthoate	0.01
Phosalone	0.01
Phosmet	0.01
Phosmet oxon	0.01
Phoxim	0.01
Pirimicarb	0.01
Pirimiphos-methyl	0.01
Prochloraz (only parent compound)	0.01
Procymidone	0.01
Profenofos	0.01
Propargite	0.01
Propiconazole	0.01
Propyzamide	0.01
Prothioconazole (Prothioconazole-desthio)	0.01
Prothiofos	0.01
Pyraclostrobin	0.01
Pyridaben	0.01
Pyrimethanil	0.01
Pyriproxyfen	0.01
Quinoxyfen	0.01
Spinosad (sum of spinosyn A and spinosyn D, expr. as spinosad)	0.01
Spirodiclofen*	0.01
Spiroxamine	0.01
Tau-Fluvalinate	0.01
Tebuconazole	0.01
Tebufenozide	0.01
Tebufenpyrad	0.01
Teflubenzuron	0.01
Tefluthrin	0.01
Tetraconazole	0.01
Tetradifon	0.01
Thiabendazole	0.01
Thiacloprid	0.01
Thiamethoxam	0.01
Thiodicarb	0.01
Thiophanate-methyl	0.01
Tolclofos-methyl	0.01
Tolylfluanid	0.01
Triadimefon	0.01
Triadimenol	0.01
Triazophos	0.01
Trichlorfon (only parent compound)	0.01
Trifloxystrobin	0.01
Triflumuron	0.01
Trifluralin	0.01
Triticonazole	0.01
Vinclozolin (only parent compound)	0.01
Zoxamide	0.01

This list is based on Commission Regulation (EC) No 915/2010 and 669/2009.
The MRRLs are based in Regulation (EC) No. 396/2005 and Commission Directive 2006/125/EC.

ANNEX 2. List of laboratories that agreed to participate in EUPT-FV14.

COUNTRY	LABORATORY NAME	CITY	REPORTED RESULTS
ARGENTINA	INSTITUTO NACIONAL DE TECNOLOGÍA INDUSTRIAL	Neuquen	YES
AUSTRIA	AUSTRIAN AGENCY FOR HEALTH AND FOOD SAFETY, COMPETENCE CENTER FOR RESIDUES OF PROTECTION PRODUCTS	Innsbruck	YES
AUSTRIA	MA 38 - LUA	Vienna	YES
AUSTRIA	INSTITUT Dr. WAGNER	Lebring	YES
AUSTRIA	EUROFINS-OFI LEBENSMITTELANALYTIK GmbH	Vienna	YES
BELGIUM	LOVAP	Geel	YES
BELGIUM	CHEMIPHAR	Brugues	YES
BELGIUM	GROND, GEWAS EN MILIEULABORATORIUM "ZEEUWS-LAADAREN" B.V.	Graauw	YES
BELGIUM	LUFA-ITL GmbH	Kiel	YES
BELGIUM	HANDELS LAB Dr A VERWEY-SILLIKER	Rotterdam	YES
BELGIUM	AGRO-ANALYSES SAS	Metz	YES
BELGIUM	SCIENTIFIC INSTITUTE OF PUBLIC HEALTH	Bruxelles	YES
BELGIUM /FRANCE/LUXEMBOURG	FYTOLAB	Zwijnaarde	YES
BELGIUM	GROEN AGRO CONTROL (DELT RESEARCH GROUP)	Delfgauw	YES
BRAZIL	BIOENSAIOS AÁLISES E CONSULTORIA AMBIENTAL	Viamão	YES
BRAZIL	LABORATÓRIO NACIONAL AGROPECUÁRIO - LANAGRO/MG	Pedro Leopoldo	YES
BRAZIL	ASSOCIASSAO INSTITUTO DE TECNOLOGIA DE PERNAMBUCO - ITEP	Recife	CANCELLED
BULGARIA	CENTRAL LABORATORY FOR CHEMICAL TESTING AND CONTROL	Sofia	YES
CHILE	ANDES CONTROL	Santiago	YES
CROATIA	EUROINSPEKT CROATIAKONTROLA D.O.O.	Zagreb	YES
CROATIA	INSTITUTE OF PUBLIC HEALTH SPLIT	Split	YES
CROATIA	FACULTY OF FOOD TECHNOLOGY AND BIOTECHNOLOGY, FOOD CONTROL CENTER	Zagreb	YES
CYPRUS	STATE GENERAL LABORATORY OF MINISTRY OF HEALTH	Nicosia	YES
CZECH REPUBLIC/SLOVAKIA	INSTITUTE OF CHEMICAL TECHNOLOGY PRAGUE, DEPT. OF FOOD CHEMISTRY AND ANALYSIS	Prague	YES
CZECH REPUBLIC	CZECH AGRICULTURE AND FOOD INSPECTION AUTHORITY	Prague	YES
DENMARK	DANISH VETERINARY AND FOOD ADMINISTRATION REGION EAST	Ringsted	YES
DENMARK	DTU NATIONAL FOOD INSTITUTE	Soeborg	YES
EGYPT	CENTRAL LAB OF RESIDUE ANALYSIS OF PESTICIDES AND HEAVY METALS IN FOODS	Giza	YES

ANNEX 2. List of laboratories that agreed to participate in EUPT-FV14.

COUNTRY	LABORATORY NAME	CITY	REPORTED RESULTS
ESTONIA	LABORATORY FOR RESIDUES AND CONTAMINANTS, AGRICULTURAL RESEARCH CENTRE	Saku	YES
ESTONIA	TARTU LABORATORY OF HEALTH BOARD	Tartu	YES
FINLAND	FINNISH CUSTOMS LABORATORY	Espoo	YES
FINLAND	METROPOLILAB OY	Helsinki	YES
FRANCE	LABORATOIRE DU SCL	Montpellier	YES
FRANCE	CERECO SUD	Garons	YES
FRANCE	SERVICE COMMUN DES LABORATOIRES – LABORATOIRE D'ILE DE FRANCE MASSY	Massy Cedex	YES
FRANCE	CENTRE D'ANALYSES MÉDITÉRRANÉE PYRÉNNÉES (CAMP)	Perpignan	YES
FRANCE	LABORATOIRE DEPARTEMENTAL DE LA SARTHE	Le Mans	YES
FRANCE	GIRPA	Beaucouze	YES
FRANCE	LABORATORY SCL	Rennes	YES
FRANCE	TRISKALIA-CAPINOV	Landerneau	YES
GERMANY	FEDERAL OFFICE OF CONSUMER PROTECTION AND FOOD SAFETY (BVL)	Berlin	YES
GERMANY	THUERINGER LANDESAMT FUER LEBENSMITTELSICHERHEIT UND VREBRAUCHERSCHUTZ	Bad Langensalza	YES
GERMANY	CHEMICAL AND VETERINARY ANALYTICAL INSTITUTE MUENSTERLAND-EMSCHER LIPPE	Münster	YES
GERMANY	LANDESUNTERSUCHUNGSAMT RHEINLAND-PFALZ INSTITUT FÜR LEBENSMITTELCHEMIE SPEYER	Speyer	YES
GERMANY	BAYERISCHES LANDESAMT FÜR GESUNDHEIT UND LEBENSMITTELSICHERHEIT	Erlangen	YES
GERMANY	NIEDERSAECHSISCHES LANDESAMT FÜR VERBRAUCHERSCHUTZ UND LEBENSITTELSICHERHEIT, LVI OLDENBURG	Oldenburg	YES
GERMANY	CHEMISCHES UND VETERINÄRUNTERSUCHUNGSAMT RHEIN-RUHR-WUPPER	Krefeld	YES
GERMANY	CHEMISCHES UNTERSUCHUNGSAMT DORTMUND	Bochum	YES
GERMANY	STATE LABORATORY SCHELESWIG-HOLSTEIN	Neumuenster	YES
GERMANY	LANDESLABOR BERIN-BRANDENBURG	Frankfurt	YES
GERMANY	CHEMISCHES UND VETERINÄRUNTERSUCHUNGSAMT STUTTGART (CVUAS)	Fellbach	YES
GERMANY	LANDESAMT FÜR VERBRAUCHERSCHUTZ SACHSEN-ANHALT (LAV)	Halle	YES
GERMANY	LANDESAMT FÜR GESUNDHEIT UND VERBRAUCHERSCHUTZ	Saarbrücken	YES
GERMANY	CHEMISCHES UND VETERINÄRUNTERSUCHUNGSAMT OSTWESTFALEN-LIPPE (CVUA-OWL)	Detmold	YES
GERMANY	LABOR FRIEDLE GmbH	Regensburg	YES
GERMANY	LANDESAMT FÜR LANDWIRTSCHAFT, LEBENSMITTELSICHERHEIT UND FISCHEREI MECKLENBURG-VORPOMMERN	Rostock	YES

ANNEX 2. List of laboratories that agreed to participate in EUPT-FV14.

COUNTRY	LABORATORY NAME	CITY	REPORTED RESULTS
GERMANY	LANDESUNTERSUCHUNGSAMT FÜR CHEMIE, HYGIENE UND VETERINÄRMEDIZIN BREMEN	Bremen	YES
GERMANY	INSTITUTE FOR HYGIENE AND ENVIRONMENT	Hamburg	YES
GERMANY	AMT FÜR VERBRAUCHERSCHUTZ DÜSSELDORF	Düsseldorf	YES
GERMANY	LUE SACHSEN, DEUTSCHLAND	Dresden	YES
GERMANY	CHEMISCHES UND VETERINÄRUNTERSUCHUNGSAMT RHEINLAND	Bonn	YES
GREECE	REGIONAL CENTER OF PLANT PROTECTION & QUALITY CONTROL OF MAGNESIA, VOLOS, GREECE	Volos	YES
GREECE	PERIFERAL CENTEROF PLAND PROTECTION AND QUALITY CONTROL OF KAVALA-MINISTRY OF RULAR DEVELOPMENT& FOOD	Kavala	YES
GREECE	PESTICIDE RESIDUES LABORATORY, BENAKI PHYTOPATHOLOGICAL INSTITUTE, KIFISSIA-ATHENS	Kifissia	YES
GREECE	REGIONAL CENTRE OF PLANT PROTECTION AND QUALITY CONTROL, LABORATORY OF PESTICIDE RESIDUES, THESSALONIKI	Thessaloniki	YES
GREECE	MINISTRY OF RURAL DEVELOPMENT & FOOD, RURAL CENTRE OF CROP PROTECTION & QUALITY CONTROL OF IOANNINA LABORATORY OF PESTICIDE ANALYSIS IN FRUITS AND VEGETABLES	Ioannina	YES
GREECE	PESTICIDE RESIDUES LABORATORY, D CHEMICAL DIVISION, GENERAL CHEMICAL STATE LABORATORY, ATHENS	Athens	YES
GREECE	REGIONAL CENTER OF PLANT PROTECTION AND QUIALITY CONTROL OF ACHAIA, LAB. OF PESTICIDE RESIDUES	Patra	YES
GREECE	PESTICIDE RESIDUE LABORATORY OF REGIONAL CENTRE OF PLANT PROTECTION AND QUALITY CONTROL OF PIRAEUS	Lykovrissi	YES
GREECE	REGIONAL CENTER OF PLANT PROTECTION AND QUALITY CONTROL OF IRAKLION, LABORATORY OF PESTICIDE RECIDUES	Iraklion	YES
GREECE	REGIONAL CENTER OF PLANT PROTECTION AND QUALITY CONTROL OF NAFPLIO, LABORATORY OF PESTICIDE RESIDUES.	Nafplio	YES
HUNGARY	AGRICULTURAL OFFICE, DPPSCA PESTICIDE ANALYTICAL LABORATORY, VELENCE	Velence	YES
HUNGARY	AGRICULTURAL OFFICE, DPPSCA PESTICIDE RESIDUE ANALYTICAL LABORATORY, MISKOLC	Miskolc	YES
HUNGARY	AO DPPSCA LABORATORY OF PESTICIDE RESIDUE ANALYSIS, SZOLNOK	Szolnok	YES
HUNGARY	AGRICULTURAL OFFICE, DIRECTORATE OF PLANT PROTECTION, SOIL CONSERVATION AND AGRI-ENVIRONMENT, PESTICIDE RESIDUE ANALYTICAL LABORATORY, HODMEZOVASARHELY	Hodmezovasarhely	YES
ICELAND	MATIS OHF	Akureyri	YES
INDIA	NATIONAL REFERRAL LABORATORY, NATIONAL RESEARCH CENTRE FOR GRAPES	Pune	YES
IRELAND	THE PESTICIDE CONTROL LABORATORY	Celbridge	YES
ISRAEL	PESTICIDE RESIDUES LABORATORY, PLANT PROTECTION & INSPECTION SERVICES (PPIS)	Beit-Dagan	YES
ITALY	LABORATORIO PREVENZIONE - AZIENDA SANITARIA LOCALE MILANO 1	Parabiago	YES

ANNEX 2. List of laboratories that agreed to participate in EUPT-FV14.

COUNTRY	LABORATORY NAME	CITY	REPORTED RESULTS
ITALY	ISTITUTO SUPERIORE DI SANITÁ – DIP. AMPP – REPARTO ANTIPARASSITARI	Roma	YES
ITALY	LABORATORIO CONTAMINANTI AMBIENTAL – ISTITUTO ZOOPROFILATTICO SPERIMENTALE UMBRIA MARCHE	Perugia	YES
ITALY	LABORATORIO DI SANITÁ PUBBLICA AZIENDA SANITARIA DI FIRENZE	Firenze	YES
ITALY	ASL VARESE – U.O. LABORATORIO CHIMICO	Varese	YES
ITALY	ARPA EMILIA ROMAGNA, RAR FITOFARMACI	Ferrara	YES
ITALY	ARPA PIEMONTE POLO ALIMENTI	La Loggia	YES
ITALY	ARPA PUGLIA – POLO ID SPECIALIZZAZIONE "ALIMENTI" – BARI	Bari	YES
ITALY	AGENZIA REGIONALE PROTEZIONE AMBIENTE VALLE D'AOSTA	Saint Christophe	YES
ITALY	APPA TRENTO	Trento	YES
ITALY	APPA BOLZANO	Bolzano	YES
ITALY	ISTITUTO ZOOPROFILATTICO SPERIMENTALE LONBARDIA EMILIA ROMAGNA – IZSLER	Brescia	YES
ITALY	ARPAL – AGENZIA REGIONALE PROTEZIONE AMBIENTE LIGURE – DIP. LA SPEZIA – U.O. LABORATORIO	La Spezia	YES
ITALY	ARPA MARCHE- DIP. MACERATA	Macerata	YES
ITALY	LABORATORIO DI SANITA' PUBBLICA ASL Provincia di Bergamo	Bergamo	YES
ITALY	AGENZIA REGIONALE PROTEZIONE AMBIENTALE-LABORATORIO DI PORDENONE	Pordenone	YES
ITALY	A.R.P.A.C. - L.M.R. MICOTOSSINE E FITOFARMACI – SETTORE FITOFARMACI	Naples	NO
ITALY	ISTITUTO ZOOPROFILATTICO SPERIMENTALE DELL'ABRUZZO E DEL MOLISE	Teramo	YES
ITALY	ARPA PUGLIA DIPARTIMENTO DI BRINDISI	Brindisi	YES
ITALY	ARPA VENETO, S.L. VERONA	Verona	YES
ITALY	ARPA LAZIO	Rome	YES
ITALY	ISTITUTO ZOOPROFILATTICO SPERIMENTALE DELLE VENEZIE - SCS2 - CHIMICA	Legnaro	YES
ITALY	LABORATORIO DI PREVENZIONE ASL DI MILANO	Milan	YES
ITALY	A.R.P.A.B. (AGENZIA REGIONALE PER LA PROTEZIONE DELL'AMBIENTE DELLA BASILICATA) – DIPARTIMENTO PROVINCIALE DI MATERA	Matera	YES
ITALY	ARPAS DIPARTAMENTO DI CAGLIARI	Cagliari	CANCELLED
LATVIA	INSTITUTE OF FOOD SAFETY, ANIMAL HEALTH AND ENVIRONMENT "BIOR"	Riga	YES
LITHUANIA	NATIONAL FOOD AND VETERINARY RISK ASSESSMENT INSTITUTE	Vilnius	YES
LUXEMBOURG	LABORATOIRE NATIONAL DE SANTÉ – CONTRÔLE DES DENRÉES ALIMENTAIRES	Luxembourg	YES
MALTA	EUROFINS DR. SPECHT LABORATORIEN GmbH	Hamburg	YES

ANNEX 2. List of laboratories that agreed to participate in EUPT-FV14.

COUNTRY	LABORATORY NAME	CITY	REPORTED RESULTS
NORWAY	BIOFORSK – NORWEGIAN INSTITUTE FOR AGRICULTURAL AND ENVIRONMENTAL RESEARCH, PLANT HEALTH AND PLANT PROTECTION DIVISION, PESTICIDE CHEMISTRY SECTION	Aas	YES
PERU	SENASA (UNIDAD DEL CENTRO DE CONTROL DE RESIDUOS TÓXICOS)	Lima	YES
POLAND	VOIVODSHIP SANITARY- EPIDEMIOLOGICAL STATION IN WARSAW	Warsaw	YES
POLAND	LABORATORIUM BADANIA POZOSTALOSCI SRODKOW OCHRONY ROSLIN W BIALYMSTOKU IOR BIALYSTOK	Bialystok	YES
POLAND	INSTYTUT OCHRONY ROSLIN TERENOWA STACJA DOSWIADCZALNA	Trzebnica	YES
POLAND	WOJEWÓDZKA STACJA SANITARNO – EPIDEMIOLOGICZNA W ŁODZI	Łódź	YES
POLAND	MAIN INSPECTORATE OF PLANT HEALTH AND SEED INSPECTION, CENTRAL LABORATORY	Torun	YES
POLAND	INSTITUTE OF PLANT PROTECTION – NATIONAL RESEARCH INSTITUTE, RESIDUE ANALYSES LABORATORY, REGIONAL EXPERIMENTAL STATION IN RZESZOW	Rzeszow	YES
POLAND	INSTYTUT OCHRONY ROSLIN – P. INSTYTUT BADAWCZY ODDZIAŁ SOSNICOWICE	Sośnicowice	YES
POLAND	INSTITUTE OF PLANT PROTECTION DEPARTMENT OF PESTICIDE RESIDUE RESEARCH	Poznan	YES
POLAND	WOJEWÓDZKA STACJA SANITARNO – EPIDEMIOLOGICZNA WE WROCŁAWIU - DZIAŁ LABORATORYJNY	Wrocław	YES
PORTUGAL	LABORATÓRIO DE QUIMICA AGRICOLA E AMBIENTAL DA DRAPN	Senhora da Hora	YES
PORTUGAL	INRB- L-INIA – LABORATÓRIO DE RESÍDUOS DE PESTICIDAS	Oeiras	NO
PORTUGAL	LABORATÓRIO REGIONAL DE VETERINARIA E SEGURANCA ALIMENTAR	Funchal	YES
ROMANIA	LABORATORY FOR PESTICIDES RESIDUES PLANTS AND VEGETABLE PRODUCTS	Bucharest	YES
ROMANIA	SANITARY VETERINARY AND FOOD SAFETY DIRECTORATE	Bucharest	YES
ROMANIA	SANITARY VETERINARY AND FOOD SAFETY LABORATORY IASI	Iasi	YES
SERBIA	SP LABORATORIJA	Becej	YES
SLOVAKIA	STATE VETERINARY AND FOOD INSTITUTE BRATISLAVA	Bratislava	YES
SLOVAKIA	NATIONAL REFERENCE CENTRE FOR PESTICIDE RESIDUES, PUBLIC HEALTH AUTHORITY OF SLOVAK REPUBLIC	Bratislava	YES
SLOVENIA	INSTITUTE OF PUBLIC HEALTH MARIBOR, ENVIRONMENTAL PROTECTION INSTITUTE	Maribor	YES
SLOVENIA	INSTITUTE OF PUBLIC HEALTH	Ljubljana	YES
SLOVENIA	KMETIJSKI INŠTITUT SLOVENIJE (AGRICULTURAL INSTITUTE OF SLOVENIA)	Ljubljana	YES
SPAIN	LABORATORIO AGROALIMENTARIO DE LA GENERALITAT VALENCIANA	Burjassot	YES
SPAIN	LABORATORIO AGROALIMENTARIO Y DE SANIDAD ANIMAL	El Palmar, Murcia	YES
SPAIN	LABORATORIO DE SANIDAD VEGETAL	Oviedo	YES
SPAIN	LABORATORIO REGIONAL DE LA CCAA DE LA RIOJA	Logroño	YES

ANNEX 2. List of laboratories that agreed to participate in EUPT-FV14.

COUNTRY	LABORATORY NAME	CITY	REPORTED RESULTS
SPAIN	LABORATORIO DE PRODUCCIÓN Y SANIDAD VEGETAL DE ALMERÍA	La Mojonera, Almería	YES
SPAIN	LABORATORIO ARBITRAL AGROALIMENTARIO DE MADRID	Madrid	YES
SPAIN	LABORATORIO AGRARIO Y FITOPATOLÓGICO DE GALICIA Laboratorio Agrario y Fitopatológico de Galicia.	Abegondo, A Coruña	YES
SPAIN	LABORATORIO AGROALIMENTARIO DE GRANADA	Atarfe, Granada	YES
SPAIN	LABORATORIOS ECOSUR, S.A.	Lorquí, Murcia	YES
SPAIN	LABORATORIO DE RESIDUOS-DEPARTAMENTO DE ANÁLISIS AMBIENTAL-INSTITUTO TECNOLÓGICO DE CANARIAS, S.A.	Agüimes, Las Palmas	YES
SPAIN	LABORATORIO AGROALIMENTARIO DE EXTREMADURA	Cáceres	YES
SPAIN	LABORATORIO DE SALUD PUBLICA DE CUENCA	Cuenca	YES
SPAIN	LABORATORIO PROVINCIAL DE SALUD PUBLICA DE ALMERIA	Almería	YES
SPAIN	LABORATORIO AGROAMBIENTAL DE ZARAGOZA	Zaragoza	YES
SPAIN	LABORATORIO AGRARIO REGIONAL- JUNTA DE CASTILLA Y LEÓN	Burgos	YES
SPAIN	NASERTIC	Villava, Navarra	YES
SPAIN	CENTRO NACIONAL DE TECNOLOGÍA Y SEGURIDAD ALIMENTARIA (CNTA – LABORATORIO DEL EBRO)	San Adrián, Navarra	YES
SPAIN	LABORATORI AGROALIMENTARI - DAAM	Cabrils	YES
SPAIN	LABORATORIO AGRARIO REGIONAL ALBACETE	Albacete	YES
SPAIN	LABORATORIO DE PRODUCCION Y SANIDAD VEGETAL	Mengíbar, Jaén	YES
SPAIN	C.N.A. (AESAN)	Madrid	YES
SPAIN	LABORATORIO DE PRODUCCIÓN Y SANIDAD VEGETAL DE HUELVA	Huelva	YES
SPAIN	AINIA	Valencia	YES
SPAIN	LABORATORIO DE SALUD PÚBLICA DE PALMA	Palma de Mallorca	YES
SPAIN	LABORATORIO DE SALUD PÚBLICA DE BADAJOZ	Badajoz	YES
SWEDEN	NATIONAL FOOD AGENCY (NFA), CHEMICAL UNIT 1	Uppsala	YES
SWEDEN	EUROFINS FOOD & AGRO SWEDEN AB	Lidköping	YES
SWITZERLAND	KANTONALES LABOR ZÜRICH	Zurich	YES
SWITZERLAND	SERVICE DE LA CONSOMMATION ET DES SERVICE DE LA CONSOMMATION ET DES AFFAIRES VÉTÉRINAIRES (SCAV)	Geneve	YES
SWITZERLAND	AMT FÜR VERBRAUCHERSCHUTZ AARGAU (CANTONAL OFFICE OF CONSUMER PROTECTION AARGAU)	Aarau	YES
SWITZERLAND	SERVICE DE LA CONSOMMATION ET AFFAIRES VÉTÉRINAIRES (SCAV)	Sion	YES
THE NETHERLANDS	NVWA – NETHERLANDS FOOD AND CONSUMER PRODUCT SAFETY AUTHORITY	Wageningen	YES

ANNEX 2. List of laboratories that agreed to participate in EUPT-FV14.

COUNTRY	LABORATORY NAME	CITY	REPORTED RESULTS
TURKEY	MSM FOOD CONTROL LABORATORY	Mersin	YES
UNITED KINGDOM / MALTA	LABORATORY OF THE GOVERNMENT CHEMIST (LGC)	Teddington	YES
UNITED KINGDOM / MALTA	THE FOOD AND ENVIRONMENT RESEARCH AGENCY (FERA)	York	YES
UNITED KINGDOM	EUROFINS LABORATORIES LTD	Wolverhampton	YES
UNITED KINGDOM	SASA	Edinburgh	YES
URUGUAY	PHARMACOGNOSY & NATURAL PRODUCTS	Montevideo	YES