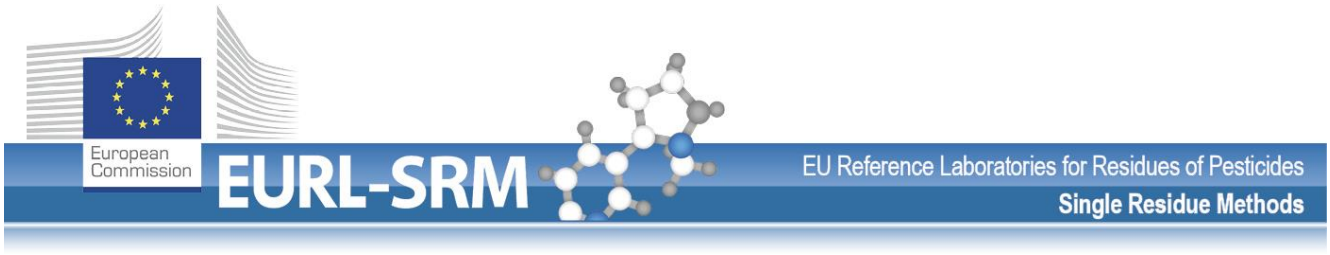

EU PROFICIENCY TEST

EUPT-SRM15, 2020

Residues of Pesticides Requiring Single Residue Methods Test Item: Rice Flour

Preliminary Report

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General Remarks

- **All assigned values(AVs), robust standard deviations (CV*s) and z-scores presented in the following are preliminary.** These figures may slightly shift in the EUPT-SRM15 final report, which will be drafted following the evaluation of the results by the EUPT-Scientific Committee and the joint EURL/NRL-Workshop.
- All labs are kindly requested to check their results carefully and to **report any errors.** However, **only transcription errors by the organizers can be considered at this stage.**
- **In case of poor performance**, i.e. questionable or unacceptable results (abs. z-score > 2 incl. false negatives) or false positive results, **labs are requested to give feedback to the organizers by 30 June, 2020.** Here you can briefly state the possible reasons of poor performance, the follow-up actions undertaken and any new results, in case you have re-analysed the PT-material using an improved procedure. **The feedback may be skiped if the reason for poor performance is covered by the "Organizers' Comments" (Table 3) within this document (e.g. "weak hydrolysis"). For reporting, please use the excel-file attached to the E-mail on the preliminary protocol.**

Background

The proficiency test EUPT-SRM15 was conducted using rice flour. The test material was produced using polished rice grains as a basis. These rice was grown, dehulled and polished in India. During the growing stage the rice plants were treated with several commercial formulations but, following first tests in the lab, it was decided to spike the material with additional 11 compounds dissolved in solvents. For this, a fraction of the rice was spiked with the standards, shaken until the solvent evaporates, and then mixed with the rest of the material prior to milling. The milled material was mixed well in its entirety and filled into bottles for shipment. An overview of the pesticides spiked to the test material is shown in **Table 1**.

Table 1: Analytes present in the SRM15 test material and their application history

Analytes	Applied in Field	Compound applied in field	Residues encountered in received crop	Conjugation rate of acids	Spiked in Lab	Compounds applied in lab
2,4-D	**Yes**	2,4-D	**Yes**	Negligible	No	-
Bentazone	**Yes**	Bentazone	**Yes**	-	No	-
Carbofuran	**Yes**	Carbofuran	**Yes**	-	**Yes**	Carbosulfan
Chlormequat	(Yes)*	Chlormequat	No	-	**Yes**	Chlormequat**
Fluazifop	(Yes)*	Fluazifop	No	-	**Yes**	Fluazifop-butyl
Glyphosate	**Yes**	Glyphosate	traces	-	**Yes**	Glyphosate
Haloxyfop	**Yes**	Haloxyfop-methyl	**Yes**	Negligible	No	-
TFNA	**Yes**	Flonicamid*	No	-	**Yes**	TFNA
Imazethapyr	**Yes**	Imazethapyr	**Yes**	Negligible	No	-
Paraquat	**Yes**	Paraquat	**Yes (low)**	-	**Yes**	Paraquat***
Quizalofop	**Yes**	Propaquizafop	**Yes (propaquizafop)**	Negligible	**Yes**	Quizalofop
MCPA	No	No	No	-	**Yes**	MCPA-glucoside
MCPB	No	No	No	-	**Yes**	MCPB methyl ester
Mecoprop (MCPP)	No	No	No	-	**Yes**	MCPP trimethylpentyl ester

* there is some doubts whether these pesticides were actually spiked in the field. It is planned to analyse the formulations used.

** The solution used was prepared using chlormequat chloride

***The solution used was prepared using paraquat dichloride hydrat

EUPT-SRM15 organization in short

Aproximately 180 g of the test item were bottled, deeply frozen at -20 °C and packed into insulated boxes together with gel packs. The boxes were stored in the freezer until they were picked up for shipment to the participating laboratories on 10 February, 2020.

Using an online submission tool, the participants had the possibility to submit their results by 31 March, 2020. The requested methodology information for tentatively false negative results was to be submitted by 9 April, 2020. During this period the participants were also able to revise their information on methods applied to the analytes in this PT.

10 bottles of the test item were selected randomly and tested for homogeneity. The concentrations of the analytes determined in the homogeneity test are shown in Table 1. Furthermore, the stability of the pesticides within the test material was checked during a period encompassing the EUPT duration.

Result Evaluation

In total, 110 OfLs (incl. NRLs) from EU and EFTA countries as well as 6 laboratories from EU candidate countires or third countries submitted results of at least one compound. 5 laboratories were not able to submit any results due to the lockdown imposed in their countries or regions to combat the spread of the coronavirus. For the same reason, one further laboratory was not able to complete data submission. For the calculation of the **preliminary assigned values** (prAVs) only results of OfLs from EU member states and EFTA countries (EU/EFTA-OfLs), that have completed result submission, were considered.

Due to the coronavirus crisis, which started towards the end of this PT, several participants had to administer their analytical data from their private homes. The EUPT-Scientific Committee will decide whether and how this will be considered in data evaluation and the classification of labs into categories (A / B), based on the analytical scope.

In the case of ***carbofuran (sum), fluazifop (sum), MCPB (sum)*** and ***mecoprop (sum)*** the distribution of the participant's results was quite broad and visibly not unimodal. Looking at methodological patterns and considering the results obtained for the PT sample by the organizer (EURL-SRM) using different hydrolysis/conversion conditions, the participants' results were divided into subpopulations. For the various subpopulations, robust statistics calculations were applied to derive the robust mean and the relative standard deviation (CV*). As expected, the robust mean of subpopulations applying stronger hydrolysis conditions, thus ensuring nearly quantitative conversion rates, were overall closer to the expected (e.g. spiked) levels compared to subpopulations using weak or no hydrolysis. For the abovementioned compounds it was therefore decided to using the robust means of the following result-subpopulations as the preliminary assigned values (prAVs):

- ***Carbofuran (sum):*** results generated by methods **involving acidic hydrolysis** (Note: Results of laboratories having analyzed carbofuran and carbosulfan separately could also have been added to this group but as carbosulfan analysis is quite challenging and error-prone, these were not included).
- ***Fluazifop (sum):*** results generated by methods **involving moderate or strong hydrolysis** conditions.
- ***MCPB (sum)***: results generated by methods **involving moderate or strong hydrolysis** conditions.
- ***Mecoprop (sum)***: results generated by methods **involving strong hydrolysis** conditions.

This selection is preliminary. Following detailed evaluation of method information and other aspects, the EUPT-Scientiffic Committee will decide whether this or another concept should be used to calculate the assigened values for these four analytes.

A summary of the preliminary assigned values and CV* is shown in **Table 2**.

False positives (FPs): Among the results received from EU/EFTA-OfLs, one result for TFNG from Laboratory 119 was **preliminarily judged as a FP**.

False negatives (FNs): 29 EU/EFTA-OfLs reported in 41 cases results that were **preliminarily judged as FNs**. These concerned compounds that were present in the test item at relevant levels, and that were analysed by the labs without reporting any numeric results. For these results z-scores were calculated using the corresponding MRRL in the target pesticide list or the RL, if this was lower. The FN results concerned the following analytes: Mecoprop (sum) (18x), 2,4-D (free acid) (4x), MCPB (sum) (3x), Paraquat (3x), Quizalofop (free acid) (3x), Fluazifop (sum) (2x), Imazethapyr (free acid) (2x), Quizalofop (sum) (2x), TFNA (2x), Haloxyfop (sum) (1x), and MCPA (sum) (1x). In three of those cases of false negatives the labs reported RLs higher than the assigned values and concerned TFNA (Lab 51), MCPB (sum) (Lab 137) and quzalofop (free acid) (Lab 116). These results were also preliminarily judged as FNs following the rules of the EUPT General Protocol. The final decisions on all FNs and FPs will be made after consulting the Scientific Committee.

Feedback on poor performance: Laboratories having delivered poor results (i.e. abs. z-scores >2 (incl. false negatives) or false positives), are urged to initiate actions for tracing back the sources of errors. A brief summary of these actions should be reported to the EURL-SRM. This reporting may be skipped if the poor performance is believed to be due reasons already indicated under "Comments of the Organizers" in **Table 3**. Still, feedback about knowledge gained from re-analyzing the PT-material using more suitable conditions is always welcome.

All submitted results of pesticides contained in the test material at relevant levels are shown in **Table 3**. The following analytes, which were present in the test material at levels well below or close to the MRRL, are not used neither for quantitative nor for qualitative result judgement: Fluazifop (free acid), Haloxyfop (free acid), MCPA (free acid), MCPB (free acid) and Mecoprop (free acid).

Table 3 also contain results of **participating laboratories from EU candidate countries and countries outside the EU**. In all these cases the z-scores were calculated using the same assigned values as for the EU and EFTA labs.

Table 2: Summary of preliminary evaluation of the EUPT-SRM15

Please find the definition of subpopulations for carbofuran (sum), fluazifop (sum), MCPB (sum) and mecoprop (sum) on page 2.

Mandatory Compounds:

Analyte	2,4-D (free acid)	Carbofuran (sum)		Chlormequat-Cl	Glyphosate	TFNA
MRRL [mg/kg]	0.01	0.01		0.01	0.03	0.01
No. of numerical results	87	93		90	86	70
No. of FNs	4	0		0	0	3
Outliers	0	2		3	0	1
Prelim. Assigned Value [mg/kg]	0.052	0.106	*(0.095)*	0.093	0.204	0.060
CV*	21.0%	16.2%	*(32.4%)*	17.0%	23.0%	27.3%
Result population used for calculation	whole (n=87)	part (n=32)	*whole (n=93)*	whole (n=90)	whole (n=86)	whole (n=70)

Optional Compounds:

Analyte	2,4-D (sum)	Bentazone	Fluazifop (sum)		Haloxyfop (sum)	Imazethapyr (free acid)	MCPA (sum)	MCPB (sum)		Mecoprop (sum)		Paraquat	Quizalofop (free acid)	Quizalofop (sum)
MRRL [mg/kg]	0.01	0.01	0.01		0.01	0.01	0.01	0.01		0.01		0.02	0.01	0.01
No. of numerical results	67	79	65		65	40	66	57		42		33	60	52
No. of FNs	0	0	2		1	2	1	4		18		3	4	2
Outliers	0	1	0		0	0	2	1		1		1	0	0
Prelim. Assigned Value [mg/kg]	0.059	0.335	0.060	*0.057*	0.152	0.207	0.068	0.057	*(0.050)*	0.067	*(0.051)*	0.193	0.044	0.062
CV*	18.9%	19.5%	18.8%	*27.1%*	16.7%	17.2%	20.0%	28.7%	*(38.8%)*	21.2%	*(51.6%)*	29.9%	16.4%	22.9%
Population used for calculation	whole (n=67)	whole (n=79)	part (n=43)	*whole (n=65)*	whole (n=65).	whole (n=40)	whole (n=66)	part (n=41)	*whole (n=57)*	part n=21	*whole (n=42)*	whole (n=33)	whole (n=60)	whole (n=52)

Table 3: Results reported by the participants for 5 compulsory and 11 optional analytes present in EUPT-SRM15 (z-scores were calculated using preliminary assigned values)

Table Legend:

- Compulsory analytes are written in blue: optional compounds are written in green:
- FN: Result that was preliminarily judged as a false negative (i.e. the analyte was present in the test sample at a relevant concentration with no quantitative result being reported).
- FN*: FNs where the lab has reported an internal reporting limit (RL) exceeding the assigned value of the respective analyte.
- [(o)]: Preliminary outliers (not involved in the establishment of prAVs).
- prAAZ: preliminary average of absolute z-scores (a measure of the average deviation from the assigned value)
- Cat.: Categorization of labs based on scope. Cat A was assigned to labs that have analysed and correctly found 4 of the 5 compulsory analytes present in the sample and that have analysed at least 12 out of 13 compulsory analytes listed in the Target Pesticides List.

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
5	B	2,4-D (free acid)	0.052	21.0 %	FN	-3.2		Pls give feedback on actions to trace back sources for FN
		2,4-D (sum)	0.059	18.9 %	0.028	-2.1		Weak hydrolysis; not expected to be the reason for the underestimated result. Pls give feedback on actions to trace back sources for bias
8	B	Carbofuran (sum)	0.106	16.2 %	0.142	1.4	2.4	NO hydrolysis (but sum CF+CS)
		Chlormequat-Cl	0.093	17.0 %	0.0501	-1.8		
		Glyphosate	0.204	23.0 %	0.0651	-2.7		Pls give feedback on actions to trace back sources for bias
		TFNA	0.060	27.3 %	0.101	2.7		Pls give feedback on actions to trace back sources for bias
		2,4-D (sum)	0.059	18.9 %	0.0406	-1.2		Weak hydrolysis
		Bentazone	0.335	19.5 %	0.768 [(o)]	5.2		Hydrolysis conducted (malpractice where only residue of free acid is request-ed); pls check for additional reasons for strong bias
		Fluazifop (sum)	0.060	18.8 %	0.0141	-3.1		Weak hydrolysis (most likely contributed to the underestimated result)
		Haloxyfop (sum)	0.152	16.7 %	0.162	0.3		Weak hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.222	0.3		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		MCPA (sum)	0.068	20.0 %	0.0850	1.0		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0202	-2.6		Weak hydrolysis (most likely contributed to the underestimated result)
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
		Paraquat	0.193	29.9 %	0.478 [(o)]	5.9		Pls give feedback on actions to trace back sources for bias; consider checking the stability of your standard
		Quizalofop (sum)	0.062	22.9 %	FN	-3.4		Weak hydrolysis does not explain the FN as there was also Quizalofop (free acid) at a level exceeding your RL. Pls give feedback on actions undertaken to trace back sources for FN result
9	B	2,4-D (free acid)	0.052	21.0 %	0.096	3.4	2.5	Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound); pls give feedback on actions to trace back sources for positive bias in the case of many acidic analytes
		Carbofuran (sum)	0.106	16.2 %	0.106	0.0		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.119	1.1		
		Glyphosate	0.204	23.0 %	0.181	-0.5		
		2,4-D (sum)	0.059	18.9 %	0.198 [(o)]	9.5		Strong hydrolysis; pls give feedback on actions to trace back sources for con-sistently positive bias in the case of acids

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Bentazone	0.335	19.5 %	0.384	0.6		
		Fluazifop (sum)	0.060	18.8 %	0.096	2.4		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		Haloxyfop (sum)	0.152	16.7 %	0.205	1.4		Strong hydrolysis
		MCPA (sum)	0.068	20.0 %	0.206 (o)	8.2		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		Mecoprop (sum)	0.067	21.2 %	0.096	1.7		Strong hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.091	4.2		Hydrolysis conducted (malpractice where residue of free acid is requested) pls give feedback on actions to trace back sources for positive bias in the case of many acidic analytes
		Quizalofop (sum)	0.062	22.9 %	0.136	4.8		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
11	B	2,4-D (free acid)	0.052	21.0 %	0.050	-0.1		
		Carbofuran (sum)	0.106	16.2 %	0.105	0.0		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.070	-1.0		
		Glyphosate	0.204	23.0 %	0.183	-0.4		
12	A	2,4-D (free acid)	0.052	21.0 %	0.047	-0.4	0.5	
		Carbofuran (sum)	0.106	16.2 %	0.108	0.1		NO hydrolysis (but acidic extraction)
		Chlormequat-Cl	0.093	17.0 %	0.091	-0.1		
		Glyphosate	0.204	23.0 %	0.159	-0.9		
		TFNA	0.060	27.3 %	0.039	-1.4		
		2,4-D (sum)	0.059	18.9 %	0.047	-0.8		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.323	-0.1		
		Fluazifop (sum)	0.060	18.8 %	0.061	0.0		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.168	0.4		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.198	-0.2		
		MCPA (sum)	0.068	20.0 %	0.075	0.4		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.055	-0.1		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.020	-2.8		Moderate hydrolysis (likely to have contributed to the underestimated result)
		Paraquat	0.193	29.9 %	0.183	-0.2		
		Quizalofop (free acid)	0.044	16.4 %	0.049	0.4		
		Quizalofop (sum)	0.062	22.9 %	0.062	0.0		Moderate hydrolysis
13	A	2,4-D (free acid)	0.052	21.0 %	0.0557	0.3	0.3	
		Carbofuran (sum)	0.106	16.2 %	0.113	0.3		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.0675	-1.1		
		Glyphosate	0.204	23.0 %	0.205	0.0		
		TFNA	0.060	27.3 %	0.0381	-1.5		
		2,4-D (sum)	0.059	18.9 %	0.0578	-0.1		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.329	-0.1		
		Fluazifop (sum)	0.060	18.8 %	0.0579	-0.2		Strong hydrolysis

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Haloxyfop (sum)	0.152	16.7 %	0.150	-0.1		Strong hydrolysis
		MCPA (sum)	0.068	20.0 %	0.0628	-0.3		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0580	0.1		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.0653	-0.1		Strong hydrolysis
		Paraquat	0.193	29.9 %	0.180	-0.3		
		Quizalofop (free acid)	0.044	16.4 %	0.0389	-0.5		
		Quizalofop (sum)	0.062	22.9 %	0.0604	-0.1		Strong hydrolysis
16	A	2,4-D (free acid)	0.052	21.0 %	0.060	0.6	0.5	
		Carbofuran (sum)	0.106	16.2 %	0.124	0.7		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.102	0.4		
		Glyphosate	0.204	23.0 %	0.214	0.2		
		TFNA	0.060	27.3 %	0.077	1.1		
		2,4-D (sum)	0.059	18.9 %	0.060	0.1		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.403	0.8		
		Fluazifop (sum)	0.060	18.8 %	0.050	-0.7		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.158	0.2		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.220	0.3		
		MCPA (sum)	0.068	20.0 %	0.071	0.2		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.063	0.4		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.076	0.5		Strong hydrolysis
		Paraquat	0.193	29.9 %	0.241	1.0		
		Quizalofop (free acid)	0.044	16.4 %	0.046	0.1		
		Quizalofop (sum)	0.062	22.9 %	0.062	0.0		Strong hydrolysis
18	B	Carbofuran (sum)	0.106	16.2 %	0.062	-1.7		NO hydrolysis
19	A	2,4-D (free acid)	0.052	21.0 %	0.038	-1.1	1.0	
		Carbofuran (sum)	0.106	16.2 %	0.098	-0.3		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.082	-0.5		
		Glyphosate	0.204	23.0 %	0.26	1.1		
		TFNA	0.060	27.3 %	0.046	-1.0		
		2,4-D (sum)	0.059	18.9 %	0.037	-1.5		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.26	-0.9		
		Fluazifop (sum)	0.060	18.8 %	0.046	-0.9		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	FN	-3.7		Moderate hydrolysis conditions do not explain FN, at least a good part of haloxyfop should have been released. Pls give feedback on actions to trace back sources for FN
		MCPA (sum)	0.068	20.0 %	0.067	0.0		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.055	-0.1		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.039	-1.7		Moderate hydrolysis
		Paraquat	0.193	29.9 %	0.13	-1.3		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Quizalofop (free acid)	0.044	16.4 %	0.043	-0.1		
		Quizalofop (sum)	0.062	22.9 %	0.063	0.1		Moderate hydrolysis
20	B	2,4-D (free acid)	0.052	21.0 %	0.043	-0.7	0.7	
		Carbofuran (sum)	0.106	16.2 %	0.069	-1.4		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.096	0.1		
		Glyphosate	0.204	23.0 %	0.136	-1.3		
		Bentazone	0.335	19.5 %	0.270	-0.8		
		Fluazifop (sum)	0.060	18.8 %	0.056	-0.3		NO hydrolysis but analysis via butyl-ester (malpractice for summed residue due to non-coverage of possible conjugates and other esters)
		Quizalofop (free acid)	0.044	16.4 %	0.039	-0.5		
21	A	2,4-D (free acid)	0.052	21.0 %	0.0577	0.5	0.9	
		Carbofuran (sum)	0.106	16.2 %	0.0738	-1.2		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.0873	-0.2		
		Glyphosate	0.204	23.0 %	0.286	1.6		
		TFNA	0.060	27.3 %	0.0577	-0.2		
		2,4-D (sum)	0.059	18.9 %	0.0581	0.0		Weak hydrolysis
		Bentazone	0.335	19.5 %	0.337	0.0		
		Fluazifop (sum)	0.060	18.8 %	0.0174	-2.8		Weak hydrolysis (most likely contributed to the underestimated result)
		Haloxyfop (sum)	0.152	16.7 %	0.129	-0.6		Weak hydrolysis
		MCPA (sum)	0.068	20.0 %	0.0663	-0.1		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0232	-2.4		Weak hydrolysis (most likely contributed to the underestimated result)
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
		Paraquat	0.193	29.9 %	0.174	-0.4		
		Quizalofop (free acid)	0.044	16.4 %	0.0441	0.0		
		Quizalofop (sum)	0.062	22.9 %	0.0544	-0.5		Weak hydrolysis
22	B	2,4-D (free acid)	0.052	21.0 %	0.053	0.1	0.3	
		Carbofuran (sum)	0.106	16.2 %	0.116	0.4		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.096	0.1		
		Glyphosate	0.204	23.0 %	0.189	-0.3		
		TFNA	0.060	27.3 %	0.068	0.5		
		2,4-D (sum)	0.059	18.9 %	0.060	0.1		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.347	0.2		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.065	0.3		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.135	-0.5		Strong hydrolysis
		MCPA (sum)	0.068	20.0 %	0.070	0.1		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.074	1.2		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.073	0.3		Strong hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.048	0.3		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Quizalofop (sum)	0.062	22.9 %	0.062	0.0		Strong hydrolysis
23	A	2,4-D (free acid)	0.052	21.0 %	0.0503	-0.1	0.5	
		Carbofuran (sum)	0.106	16.2 %	0.123	0.6		NO hydrolysis (but sum CF+CS)
		Chlormequat-Cl	0.093	17.0 %	0.0788	-0.6		
		Glyphosate	0.204	23.0 %	0.249	0.9		
		TFNA	0.060	27.3 %	0.0610	0.1		
		Bentazone	0.335	19.5 %	0.369	0.4		
		Quizalofop (free acid)	0.044	16.4 %	0.0505	0.6		
24	A	2,4-D (free acid)	0.052	21.0 %	0.034	-1.4	1.7	
		Carbofuran (sum)	0.106	16.2 %	0.28 (o)	6.6		NO hydrolysis; pls give feedback on actions to trace back sources for bias
		Chlormequat-Cl	0.093	17.0 %	0.065	-1.2		
		Glyphosate	0.204	23.0 %	0.15	-1.1		
		TFNA	0.060	27.3 %	0.059	-0.1		
		2,4-D (sum)	0.059	18.9 %	0.090	2.1		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.127	-2.5		Use of PSA (malpractice for acidic pesticide; may have contributed to underes-timated result)
		Fluazifop (sum)	0.060	18.8 %	0.056	-0.3		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.27	3.1		Moderate hydrolysis; pls give feedback on actions to trace back sources for bias
		MCPA (sum)	0.068	20.0 %	0.091	1.4		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.060	0.2		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Moderate hydrolysis (likely to have contributed to the FN result)
		Paraquat	0.193	29.9 %	0.124	-1.4		
		Quizalofop (free acid)	0.044	16.4 %	0.042	-0.2		
		Quizalofop (sum)	0.062	22.9 %	0.084	1.4		Moderate hydrolysis
25	B	2,4-D (free acid)	0.052	21.0 %	0.052	0.0	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.116	0.4		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.092	0.0		
		2,4-D (sum)	0.059	18.9 %	0.057	-0.1		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.326	-0.1		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.052	-0.5		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.134	-0.5		Moderate hydrolysis
		MCPA (sum)	0.068	20.0 %	0.061	-0.4		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.021	-2.5		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.033	-2.0		Moderate hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.043	-0.1		
		Quizalofop (sum)	0.062	22.9 %	0.053	-0.6		Moderate hydrolysis
26	A	2,4-D (free acid)	0.052	21.0 %	0.050	-0.1	0.7	Use of PSA (malpractice for acidic pesticide)

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Carbofuran (sum)	0.106	16.2 %	0.119	0.5		NO hydrolysis (but sum CF+CS)
		Chlormequat-Cl	0.093	17.0 %	0.098	0.2		
		Glyphosate	0.204	23.0 %	0.20	-0.1		
		TFNA	0.060	27.3 %	0.058	-0.2		Use of PSA (malpractice for acidic pesticide)
		2,4-D (sum)	0.059	18.9 %	0.081	1.5		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		Bentazone	0.335	19.5 %	0.281	-0.6		Use of PSA (malpractice for acidic pesticide)
		Fluazifop (sum)	0.060	18.8 %	0.059	-0.1		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		Haloxyfop (sum)	0.152	16.7 %	0.144	-0.2		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		Imazethapyr (free acid)	0.207	17.2 %	0.095	-2.2		Use of PSA (malpractice for acidic pesticide; likely to have contributed to underestimated result)
		MCPA (sum)	0.068	20.0 %	0.068	0.0		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		MCPB (sum)	0.057	28.7 %	0.070	0.9		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		Mecoprop (sum)	0.067	21.2 %	0.043	-1.5		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		Paraquat	0.193	29.9 %	0.220	0.6		
		Quizalofop (free acid)	0.044	16.4 %	0.020	-2.2		Use of PSA (malpractice for acidic pesticide; likely to have contributed to underestimated result)
		Quizalofop (sum)	0.062	22.9 %	0.057	-0.3		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide)
27	A	2,4-D (free acid)	0.052	21.0 %	0.050	-0.1	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.074	-1.2		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.109	0.7		
		Glyphosate	0.204	23.0 %	0.187	-0.3		
		TFNA	0.060	27.3 %	0.066	0.4		
		2,4-D (sum)	0.059	18.9 %	0.056	-0.2		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.305	-0.4		
		Fluazifop (sum)	0.060	18.8 %	0.056	-0.3		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.153	0.0		Strong hydrolysis
		MCPA (sum)	0.068	20.0 %	0.065	-0.2		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.053	-0.3		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.024	-2.6		Strong hydrolysis; pls give feedback on possible sources of negative bias
28	A	2,4-D (free acid)	0.052	21.0 %	0.0557	0.3	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.0841	-0.8		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.0521	-1.8		
		Glyphosate	0.204	23.0 %	0.239	0.7		
		TFNA	0.060	27.3 %	0.0684	0.5		
		Bentazone	0.335	19.5 %	0.375	0.5		
		Imazethapyr (free acid)	0.207	17.2 %	0.211	0.1		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Quizalofop (free acid)	0.044	16.4 %	0.0414	-0.3		
30	B	2,4-D (free acid)	0.052	21.0 %	0.046	-0.4	1.3	
		Carbofuran (sum)	0.106	16.2 %	0.099	-0.3		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.095	0.1		
		Glyphosate	0.204	23.0 %	0.207	0.1		
		TFNA	0.060	27.3 %	0.061	0.1		Use of PSA (malpractice for acidic pesticides, but recovery correction)
		2,4-D (sum)	0.059	18.9 %	0.048	-0.7		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		Bentazone	0.335	19.5 %	0.704	4.4		Use of PSA (malpractice for acidic pesticide); pls give feedback on actions to trace back sources for positive bias
		Fluazifop (sum)	0.060	18.8 %	0.041	-1.3		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		Haloxyfop (sum)	0.152	16.7 %	0.048	-2.7		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide; likely to have contributed to the underestimated result). Hydrolysis conditions do not match with reference method stated, please clarify.
		Imazethapyr (free acid)	0.207	17.2 %	0.199	-0.2		Use of PSA (malpractice for acidic pesticide)
		MCPA (sum)	0.068	20.0 %	0.053	-0.9		Weak hydrolysis -PSA cleanup (malpractice for acidic pesticide). Hydrolysis conditions do not match with reference method stated, please clarify.
		MCPB (sum)	0.057	28.7 %	FN	-3.3		Weak hydrolysis and PSA cleanup (malpractice for acidic pesticide); these two factors most likely contributed to the FN result. Hydrolysis conditions do not match with reference method stated, please clarify.
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis and PSA cleanup (malpractice for acidic pesticide); these two factors most likely contributed to the FN result. Hydrolysis conditions do not match with reference method stated, please clarify.
		Paraquat	0.193	29.9 %	0.200	0.2		
		Quizalofop (free acid)	0.044	16.4 %	0.036	-0.8		Use of PSA (malpractice for acidic pesticide)
31	A	2,4-D (free acid)	0.052	21.0 %	0.0474	-0.3	0.7	
		Chlormequat-Cl	0.093	17.0 %	0.103	0.5		
		Glyphosate	0.204	23.0 %	0.227	0.5		
		TFNA	0.060	27.3 %	0.0737	0.9		
		2,4-D (sum)	0.059	18.9 %	0.0452	-0.9		Weak hydrolysis
		Bentazone	0.335	19.5 %	0.308	-0.3		
		Fluazifop (sum)	0.060	18.8 %	0.0152	-3.0		Weak hydrolysis (most likely contributed to the underestimated result)
		Haloxyfop (sum)	0.152	16.7 %	0.163	0.3		Weak hydrolysis
		MCPA (sum)	0.068	20.0 %	0.0536	-0.8		Weak hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.0453	0.1		
		Quizalofop (sum)	0.062	22.9 %	0.0636	0.1		Weak hydrolysis
32	A	2,4-D (free acid)	0.052	21.0 %	0.0602	0.7	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.131	0.9		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.111	0.8		
		Glyphosate	0.204	23.0 %	0.177	-0.5		
		TFNA	0.060	27.3 %	0.0734	0.9		
		2,4-D (sum)	0.059	18.9 %	0.0653	0.5		Strong hydrolysis

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Bentazone	0.335	19.5 %	0.339	0.1		
		Fluazifop (sum)	0.060	18.8 %	0.0741	0.9		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.171	0.5		Strong hydrolysis
		MCPA (sum)	0.068	20.0 %	0.0808	0.8		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0657	0.6		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.0823	0.9		Strong hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.0518	0.7		
		Quizalofop (sum)	0.062	22.9 %	0.0599	-0.1		Strong hydrolysis
33	B	2,4-D (free acid)	0.052	21.0 %	FN	-3.2	2.9	Use of PSA (malpractice for acidic pesticide; likely to have contributed to FN result); pls give feedback in case of additional sources leading to FN result
		Carbofuran (sum)	0.106	16.2 %	0.0488	-2.2		NO hydrolysis (may have contributed to result underestimation)
		Chlormequat-Cl	0.093	17.0 %	0.0982	0.2		
		Glyphosate	0.204	23.0 %	0.233	0.6		
		2,4-D (sum)	0.059	18.9 %	0.187 (o)	8.8		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		Bentazone	0.335	19.5 %	0.315	-0.2		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		MCPA (sum)	0.068	20.0 %	0.212 (o)	8.5		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		MCPB (sum)	0.057	28.7 %	0.122	4.6		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		Mecoprop (sum)	0.067	21.2 %	0.202 (o)	8.0		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
34	A	2,4-D (free acid)	0.052	21.0 %	0.10	3.7	1.8	Pls give feedback on actions to trace back sources for bias
		Carbofuran (sum)	0.106	16.2 %	0.053	-2.0		NO hydrolysis (may have contributed to result underestimation)
		Chlormequat-Cl	0.093	17.0 %	0.11	0.8		
		Glyphosate	0.204	23.0 %	0.23	0.5		
		TFNA	0.060	27.3 %	0.07	0.6		
		2,4-D (sum)	0.059	18.9 %	0.1	2.8		NO hydrolysis (malpractice for a summed residue of acidic pesticide but not expected to have significantly influenced result for this compound); pls give feedback on sources of positive bias
		Bentazone	0.335	19.5 %	0.35	0.2		
		Fluazifop (sum)	0.060	18.8 %	0.063	0.2		NO hydrolysis (malpractice for summed residues of acidic pesticides); Pls indicate whether sum was calculated by summing up acid and ester
		Haloxyfop (sum)	0.152	16.7 %	0.14	-0.3		NO hydrolysis (malpractice for summed residues of acidic pesticides); Pls indicate whether sum was calculated by summing up acid and ester
		Imazethapyr (free acid)	0.207	17.2 %	0.21	0.1		
		MCPA (sum)	0.068	20.0 %	FN	-3.4		NO hydrolysis (malpractice for summed residues of acidic pesticides; most likely contributed to the FN result)
		MCPB (sum)	0.057	28.7 %	FN	-3.3		NO hydrolysis (malpractice for summed residues of acidic pesticides; most likely contributed to the FN result)
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		NO hydrolysis (malpractice for summed residues of acidic pesticides, most likely contributed to the FN result)
		Paraquat	0.193	29.9 %	0.36	3.5		Pls give feedback on actions to trace back sources for bias; consider checking the stability of your standard

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Quizalofop (free acid)	0.044	16.4 %	FN	-3.1		Pls give feedback on actions to trace back sources for FN result
		Quizalofop (sum)	0.062	22.9 %	0.066	0.3		NO hydrolysis (malpractice for summed residues of acidic pesticides); Pls indicate whether sum was calculated by summing up acid and ester
35	A	2,4-D (free acid)	0.052	21.0 %	0.0427	-0.7	0.8	
		Carbofuran (sum)	0.106	16.2 %	0.0820	-0.9		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.0813	-0.5		
		Glyphosate	0.204	23.0 %	0.129	-1.5		
		TFNA	0.060	27.3 %	0.0420	-1.2		
		Bentazone	0.335	19.5 %	0.436	1.2		
		Imazethapyr (free acid)	0.207	17.2 %	0.194	-0.3		
		Quizalofop (free acid)	0.044	16.4 %	0.0470	0.2		
36	B	Glyphosate	0.204	23.0 %	0.196	-0.2		
37	B	2,4-D (free acid)	0.052	21.0 %	0.0374	-1.1	1.1	
		Carbofuran (sum)	0.106	16.2 %	0.0645	-1.6		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.0916	-0.1		
		Glyphosate	0.204	23.0 %	0.215	0.2		
		TFNA	0.060	27.3 %	0.0648	0.3		
		2,4-D (sum)	0.059	18.9 %	0.0508	-0.5		NO hydrolysis (malpractice for summed residues of acidic pesticides, but not expected to have significantly influenced result for this compound)
		Bentazone	0.335	19.5 %	0.198	-1.6		
		Fluazifop (sum)	0.060	18.8 %	0.0511	-0.6		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.115	-1.0		Moderate hydrolysis
		MCPA (sum)	0.068	20.0 %	0.0564	-0.7		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.042	-1.0		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Moderate hydrolysis (likely to have contributed to the FN result)
		Quizalofop (free acid)	0.044	16.4 %	0.0243	-1.8		
		Quizalofop (sum)	0.062	22.9 %	0.0404	-1.4		Moderate hydrolysis
38	B	Carbofuran (sum)	0.106	16.2 %	0.046	-2.3		NO hydrolysis (may have contributed to result underestimation)
		Chlormequat-Cl	0.093	17.0 %	0.097	0.2		
39	A	2,4-D (free acid)	0.052	21.0 %	0.063	0.9	1.1	
		Carbofuran (sum)	0.106	16.2 %	0.049	-2.2		NO hydrolysis (may have contributed to result underestimation)
		Chlormequat-Cl	0.093	17.0 %	0.106	0.6		
		Glyphosate	0.204	23.0 %	0.254	1.0		
		TFNA	0.060	27.3 %	0.045	-1.0		
		Bentazone	0.335	19.5 %	0.392	0.7		
40	B	2,4-D (free acid)	0.052	21.0 %	0.0612	0.7	0.7	
		Carbofuran (sum)	0.106	16.2 %	0.0894	-0.6		NO hydrolysis (but acidic extraction)
		TFNA	0.060	27.3 %	0.0661	0.4		
		2,4-D (sum)	0.059	18.9 %	0.0498	-0.6		Strong hydrolysis

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Bentazone	0.335	19.5 %	0.4200	1.0		
		Fluazifop (sum)	0.060	18.8 %	0.0698	0.6		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.1354	-0.4		Strong hydrolysis
		MCPA (sum)	0.068	20.0 %	0.0512	-1.0		Strong hydrolysis
41	B	2,4-D (free acid)	0.052	21.0 %	FN	-3.2	1.6	Hydrolysis conducted (malpractice for acid but not reason for FN). Pls give feedback on actions to trace back sources for FN result
		Carbofuran (sum)	0.106	16.2 %	0.105	0.0		Hydrolysis conducted
		Glyphosate	0.204	23.0 %	0.112	-1.8		
		Fluazifop (sum)	0.060	18.8 %	0.068	0.5		Weak hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.066	-2.3		Weak hydrolysis (likely to have contributed to the underestimated result)
42	B	Chlormequat-Cl	0.093	17.0 %	0.128	1.5		
		Paraquat	0.193	29.9 %	0.358	3.4		Pls give feedback on actions to trace back sources for bias; consider checking the stability of your standard
43	B	2,4-D (free acid)	0.052	21.0 %	0.071	1.5	0.7	
		Chlormequat-Cl	0.093	17.0 %	0.087	-0.2		
		Glyphosate	0.204	23.0 %	0.230	0.5		
		Bentazone	0.335	19.5 %	0.294	-0.5		
		Imazethapyr (free acid)	0.207	17.2 %	0.207	0.0		
		Paraquat	0.193	29.9 %	0.120	-1.5		
44	A	2,4-D (free acid)	0.052	21.0 %	0.045	-0.5	1.1	
		Carbofuran (sum)	0.106	16.2 %	0.098	-0.3		Hydrolysis conducted; pls confirm/specify hydrolysis conditions
		Chlormequat-Cl	0.093	17.0 %	0.063	-1.3		
		Glyphosate	0.204	23.0 %	0.172	-0.6		
		TFNA	0.060	27.3 %	0.064	0.2		
		2,4-D (sum)	0.059	18.9 %	0.09	2.1		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.69	4.3		Pls give feedback on actions to trace back sources for bias
		Fluazifop (sum)	0.060	18.8 %	0.055	-0.4		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.187	0.9		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.23	0.4		
		MCPA (sum)	0.068	20.0 %	0.046	-1.3		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.039	-1.3		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.031	-2.2		Moderate hydrolysis
		Paraquat	0.193	29.9 %	0.212	0.4		
		Quizalofop (free acid)	0.044	16.4 %	0.043	-0.1		
		Quizalofop (sum)	0.062	22.9 %	0.054	-0.5		Moderate hydrolysis
45	A	2,4-D (free acid)	0.052	21.0 %	0.0498	-0.2	0.7	
		Carbofuran (sum)	0.106	16.2 %	0.103	-0.1		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.0763	-0.7		
		Glyphosate	0.204	23.0 %	0.242	0.8		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		TFNA	0.060	27.3 %	0.0858	1.7		
		Bentazone	0.335	19.5 %	0.381	0.6		
46	A	2,4-D (free acid)	0.052	21.0 %	0.054	0.2	1.2	
		Carbofuran (sum)	0.106	16.2 %	0.095	-0.4		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.088	-0.2		
		Glyphosate	0.204	23.0 %	0.193	-0.2		
		TFNA	0.060	27.3 %	0.061	0.1		
		2,4-D (sum)	0.059	18.9 %	0.064	0.4		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.342	0.1		
		Fluazifop (sum)	0.060	18.8 %	0.020	-2.7		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.199	1.2		Moderate hydrolysis
		MCPA (sum)	0.068	20.0 %	0.077	0.6		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.071	1.0		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Moderate hydrolysis (likely to have contributed to the FN result)
		Quizalofop (free acid)	0.044	16.4 %	0.080	3.2		Pls give feedback on actions to trace back sources for bias; Consider checking your standard as free acid and sum are equally biased.
		Quizalofop (sum)	0.062	22.9 %	0.113	3.3		Moderate hydrolysis; pls give feedback on actions to trace back sources for bias. Consider checking your standard as free acid and sum are equally biased.
47	B	Carbofuran (sum)	0.106	16.2 %	0.027	-3.0	1.2	NO hydrolysis; pls give feedback on actions to trace back sources for bias
		Chlormequat-Cl	0.093	17.0 %	0.063	-1.3		
		Glyphosate	0.204	23.0 %	0.195	-0.2		
		TFNA	0.060	27.3 %	0.030	-2.0		
		2,4-D (sum)	0.059	18.9 %	0.076	1.2		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.329	-0.1		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.033	-1.8		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.152	0.0		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.194	-0.3		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		MCPA (sum)	0.068	20.0 %	0.079	0.7		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.070	0.9		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Moderate hydrolysis (likely to have contributed to the FN result)
		Paraquat	0.193	29.9 %	0.097	-2.0		
		Quizalofop (sum)	0.062	22.9 %	0.068	0.4		Moderate hydrolysis
48	A	2,4-D (free acid)	0.052	21.0 %	0.028	-1.8	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.099	-0.3		NO hydrolysis (but sum CF+CS). This approach does not match with the reference method stated (SRM-23) please clarify.
		Chlormequat-Cl	0.093	17.0 %	0.114	0.9		
		Glyphosate	0.204	23.0 %	0.20	-0.1		
		TFNA	0.060	27.3 %	0.046	-1.0		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		2,4-D (sum)	0.059	18.9 %	0.070	0.8		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Bentazone	0.335	19.5 %	0.325	-0.1		
		Fluazifop (sum)	0.060	18.8 %	0.055	-0.4		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Haloxyfop (sum)	0.152	16.7 %	0.133	-0.5		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Imazethapyr (free acid)	0.207	17.2 %	0.214	0.1		
		MCPA (sum)	0.068	20.0 %	0.078	0.6		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		MCPB (sum)	0.057	28.7 %	0.046	-0.8		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Mecoprop (sum)	0.067	21.2 %	0.066	-0.1		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Quizalofop (free acid)	0.044	16.4 %	0.040	-0.4		
		Quizalofop (sum)	0.062	22.9 %	0.048	-0.9		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
49	A	2,4-D (free acid)	0.052	21.0 %	0.056	0.3	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.073	-1.2		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.084	-0.4		
		Glyphosate	0.204	23.0 %	0.225	0.4		
		TFNA	0.060	27.3 %	0.086	1.7		
		2,4-D (sum)	0.059	18.9 %	0.058	0.0		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.269	-0.8		
		Fluazifop (sum)	0.060	18.8 %	0.076	1.0		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.146	-0.2		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.185	-0.4		
		MCPA (sum)	0.068	20.0 %	0.062	-0.3		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.068	0.8		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.071	0.2		Strong hydrolysis
		Paraquat	0.193	29.9 %	0.173	-0.4		
		Quizalofop (free acid)	0.044	16.4 %	0.036	-0.8		
		Quizalofop (sum)	0.062	22.9 %	0.050	-0.8		Strong hydrolysis
50	B	2,4-D (free acid)	0.052	21.0 %	0.050	-0.1	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.101	-0.2		NO hydrolysis (but acidic extraction)
		Chlormequat-Cl	0.093	17.0 %	0.083	-0.4		
		Glyphosate	0.204	23.0 %	0.2303	0.5		
		TFNA	0.060	27.3 %	0.21 (o)	9.9		Pls give feedback on actions to trace back sources for bias
		2,4-D (sum)	0.059	18.9 %	0.0655	0.5		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.342	0.1		
		Fluazifop (sum)	0.060	18.8 %	0.0622	0.1		Strong hydrolysis

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Haloxyfop (sum)	0.152	16.7 %	0.1528	0.0		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.1989	-0.2		
		MCPA (sum)	0.068	20.0 %	0.0736	0.4		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0520	-0.3		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.0645	-0.2		Strong hydrolysis
		Paraquat	0.193	29.9 %	0.155	-0.8		
		Quizalofop (free acid)	0.044	16.4 %	0.0454	0.1		
		Quizalofop (sum)	0.062	22.9 %	0.0689	0.5		Strong hydrolysis
51	A	2,4-D (free acid)	0.052	21.0 %	0.039	-1.0	1.8	
		Carbofuran (sum)	0.106	16.2 %	0.061	-1.7		NO hydrolysis (but acidic extraction)
		Chlormequat-Cl	0.093	17.0 %	0.086	-0.3		
		Glyphosate	0.204	23.0 %	0.409	4.0		Pls give feedback on actions to trace back sources for bias
		TFNA	0.060	27.3 %	FN*	-3.3		AV<RL! (but still considered FN according to General Protocol); consider checking if extract composition affects online cleanup/enrichment or any other reasons causing systematic underestimation of acidic pesticide concentrations
		2,4-D (sum)	0.059	18.9 %	0.050	-0.6		Weak hydrolysis
		Bentazone	0.335	19.5 %	0.288	-0.6		
		Fluazifop (sum)	0.060	18.8 %	0.010	-3.3		Weak hydrolysis (most likely contributed to the underestimated result)
		Haloxyfop (sum)	0.152	16.7 %	0.146	-0.2		Weak hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.221	0.3		
		MCPA (sum)	0.068	20.0 %	0.054	-0.8		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	0.022	-2.5		Weak hydrolysis (most likely contributed to the underestimated result)
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
		Paraquat	0.193	29.9 %	FN	-3.8		Pls give feedback on actions to trace back sources for the FN result
		Quizalofop (free acid)	0.044	16.4 %	0.048	0.3		
		Quizalofop (sum)	0.062	22.9 %	FN	-3.4		Weak hydrolysis does not explain the FN as there was also Quizalofop (free acid) at a level exceeding your RL. Pls give feedback on actions undertaken to trace back sources for FN result
54	B	Glyphosate	0.204	23.0 %	0.220	0.3		
55	B	2,4-D (free acid)	0.052	21.0 %	0.0400	-0.9	2.1	
		Carbofuran (sum)	0.106	16.2 %	0.179	2.8		Hydrolysis conducted; pls give feedback on actions to trace back sources for bias
		Chlormequat-Cl	0.093	17.0 %	0.0846	-0.4		
		Glyphosate	0.204	23.0 %	0.162	-0.8		
		TFNA	0.060	27.3 %	0.0553	-0.3		
		2,4-D (sum)	0.059	18.9 %	0.137 (o)	5.4		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		Bentazone	0.335	19.5 %	0.388	0.6		
		Fluazifop (sum)	0.060	18.8 %	0.0811	1.4		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.222	1.8		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.264	1.1		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		MCPA (sum)	0.068	20.0 %	0.144	4.5		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		MCPB (sum)	0.057	28.7 %	0.134 (o)	5.4		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		Mecoprop (sum)	0.067	21.2 %	0.135	4.0		Strong hydrolysis; pls give feedback on actions to trace back sources for consistently positive bias in the case of acids
		Quizalofop (free acid)	0.044	16.4 %	0.0525	0.7		
		Quizalofop (sum)	0.062	22.9 %	0.0990	2.4		Strong hydrolysis
56	A	2,4-D (free acid)	0.052	21.0 %	0.042	-0.8	0.8	
		Carbofuran (sum)	0.106	16.2 %	0.084	-0.8		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.103	0.5		
		Glyphosate	0.204	23.0 %	0.172	-0.6		
		TFNA	0.060	27.3 %	0.061	0.1		
		2,4-D (sum)	0.059	18.9 %	0.053	-0.4		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.333	0.0		
		Fluazifop (sum)	0.060	18.8 %	0.048	-0.8		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.152	0.0		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.154	-1.0		
		MCPA (sum)	0.068	20.0 %	0.060	-0.5		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.031	-1.8		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.014	-3.2		Moderate hydrolysis (likely to have contributed to the underestimated result)
		Quizalofop (free acid)	0.044	16.4 %	0.034	-0.9		
		Quizalofop (sum)	0.062	22.9 %	0.050	-0.8		Moderate hydrolysis
57	A	2,4-D (free acid)	0.052	21.0 %	0.052	0.0	0.4	
		Carbofuran (sum)	0.106	16.2 %	0.132	1.0		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.102	0.4		
		Glyphosate	0.204	23.0 %	0.210	0.1		
		TFNA	0.060	27.3 %	0.059	-0.1		
		2,4-D (sum)	0.059	18.9 %	0.060	0.1		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.354	0.2		
		Fluazifop (sum)	0.060	18.8 %	0.075	1.0		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.152	0.0		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.179	-0.6		
		MCPA (sum)	0.068	20.0 %	0.065	-0.2		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.056	-0.1		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.034	-2.0		Moderate hydrolysis
		Paraquat	0.193	29.9 %	0.217	0.5		
		Quizalofop (free acid)	0.044	16.4 %	0.043	-0.1		
		Quizalofop (sum)	0.062	22.9 %	0.065	0.2		Moderate hydrolysis

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
58	B	2,4-D (free acid)	0.052	21.0 %	0.0535	0.1	0.9	
		Carbofuran (sum)	0.106	16.2 %	0.0788	-1.0		NO hydrolysis
		Glyphosate	0.204	23.0 %	0.206	0.0		
		2,4-D (sum)	0.059	18.9 %	0.0547	-0.3		Weak hydrolysis
		Fluazifop (sum)	0.060	18.8 %	0.0113	-3.3		Weak hydrolysis (most likely contributed to the underestimated result)
		Haloxyfop (sum)	0.152	16.7 %	0.127	-0.7		Weak hydrolysis
		MCPA (sum)	0.068	20.0 %	0.061	-0.4		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0302	-1.9		Weak hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.0426	-0.2		
		Quizalofop (sum)	0.062	22.9 %	0.0530	-0.6		Weak hydrolysis
59	B	2,4-D (free acid)	0.052	21.0 %	0.077	2.0	0.9	
		Carbofuran (sum)	0.106	16.2 %	0.108	0.1		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.077	-0.7		
		Glyphosate	0.204	23.0 %	0.272	1.3		
		2,4-D (sum)	0.059	18.9 %	0.068	0.6		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.334	0.0		
		Fluazifop (sum)	0.060	18.8 %	0.067	0.4		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.148	-0.1		Strong hydrolysis
		MCPA (sum)	0.068	20.0 %	0.082	0.9		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.08	1.6		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.083	0.9		Strong hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.041	-0.3		
		Quizalofop (sum)	0.062	22.9 %	0.097	2.3		Strong hydrolysis
60	B	2,4-D (free acid)	0.052	21.0 %	0.0285	-1.8		
		Carbofuran (sum)	0.106	16.2 %	0.0805	-1.0		NO hydrolysis (but acidic extraction)
		Bentazone	0.335	19.5 %	0.2625	-0.9		
		Imazethapyr (free acid)	0.207	17.2 %	0.1750	-0.6		Use of PSA (malpractice for free acidic pesticide); but PSA-impact weakened at acidic pH
61	B	2,4-D (free acid)	0.052	21.0 %	0.059	0.6		
		Carbofuran (sum)	0.106	16.2 %	0.103	-0.1		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.229 (o)	5.9		Pls give feedback on actions to trace back sources for bias
		Glyphosate	0.204	23.0 %	0.248	0.9		
62	A	2,4-D (free acid)	0.052	21.0 %	0.015	-2.8	1.2	Pls give feedback on actions to trace back sources for bias
		Carbofuran (sum)	0.106	16.2 %	0.0976	-0.3		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.0875	-0.2		
		Glyphosate	0.204	23.0 %	0.201	-0.1		
		TFNA	0.060	27.3 %	0.064	0.2		
		2,4-D (sum)	0.059	18.9 %	0.121	4.3		Strong hydrolysis; pls give feedback on actions to trace back sources for bias

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Bentazone	0.335	19.5 %	0.387	0.6		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.073	0.8		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.232	2.1		Strong hydrolysis
		MCPA (sum)	0.068	20.0 %	0.0895	1.3		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.074	1.2		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.058	-0.6		Strong hydrolysis
63	B	Glyphosate	0.204	23.0 %	0.092	-2.2		Pls give feedback on actions to trace back sources for bias
64	B	2,4-D (free acid)	0.052	21.0 %	0.063	0.9	1.0	
		Carbofuran (sum)	0.106	16.2 %	0.202	3.6		NO hydrolysis; pls give feedback on actions to trace back sources for bias
		Chlormequat-Cl	0.093	17.0 %	0.080	-0.6		
		Glyphosate	0.204	23.0 %	0.258	1.1		
		TFNA	0.060	27.3 %	0.046	-1.0		
		2,4-D (sum)	0.059	18.9 %	0.062	0.2		Weak hydrolysis
		Bentazone	0.335	19.5 %	0.365	0.4		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.049	-0.7		Weak hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.144	-0.2		Weak hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.178	-0.6		
		MCPA (sum)	0.068	20.0 %	0.062	-0.3		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	0.049	-0.6		Weak hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
		Paraquat	0.193	29.9 %	0.174	-0.4		
		Quizalofop (free acid)	0.044	16.4 %	0.035	-0.9		
65	A	2,4-D (free acid)	0.052	21.0 %	0.0350	-1.3	1.7	
		Carbofuran (sum)	0.106	16.2 %	0.111	0.2		NO hydrolysis (but sum CF+CS)
		Chlormequat-Cl	0.093	17.0 %	0.0917	0.0		
		Glyphosate	0.204	23.0 %	0.274	1.4		
		TFNA	0.060	27.3 %	FN	-3.3		Pls give feedback on actions to trace back sources for FN
		Bentazone	0.335	19.5 %	0.209	-1.5		
		Imazethapyr (free acid)	0.207	17.2 %	0.140	-1.3		
		Paraquat	0.193	29.9 %	0.431	5.0		Pls give feedback on actions to trace back sources for bias; consider checking the stability of your standard
		Quizalofop (free acid)	0.044	16.4 %	0.0288	-1.4		
66	A	2,4-D (free acid)	0.052	21.0 %	0.088	2.8	1.4	Use of PSA (malpractice for acidic pesticide)
		Carbofuran (sum)	0.106	16.2 %	0.051	-2.1		NO hydrolysis (may have contributed to result underestimation)
		Chlormequat-Cl	0.093	17.0 %	0.096	0.1		
		Glyphosate	0.204	23.0 %	0.103	-2.0		
		TFNA	0.060	27.3 %	0.030	-2.0		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		2,4-D (sum)	0.059	18.9 %	0.080	1.5		Weak hydrolysis
		Bentazone	0.335	19.5 %	0.372	0.5		Use of PSA (malpractice for acidic pesticide)
		MCPA (sum)	0.068	20.0 %	0.071	0.2		Weak hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
		Paraquat	0.193	29.9 %	0.142	-1.1		
		Quizalofop (free acid)	0.044	16.4 %	0.046	0.1		
		Quizalofop (sum)	0.062	22.9 %	0.083	1.4		Weak hydrolysis
67	A	2,4-D (free acid)	0.052	21.0 %	0.043	-0.7	1.1	
		Carbofuran (sum)	0.106	16.2 %	0.093	-0.5		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.086	-0.3		
		Glyphosate	0.204	23.0 %	0.022	-3.6		Pls give feedback on actions to trace back sources for bias
		TFNA	0.060	27.3 %	0.077	1.1		
		2,4-D (sum)	0.059	18.9 %	0.060	0.1		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.392	0.7		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.049	-0.7		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.181	0.8		Moderate hydrolysis
		MCPA (sum)	0.068	20.0 %	0.088	1.2		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.018	-2.9		Moderate hydrolysis (likely to have contributed to the underestimated result)
		Paraquat	0.193	29.9 %	0.184	-0.2		
		Quizalofop (free acid)	0.044	16.4 %	0.061	1.5		
		Quizalofop (sum)	0.062	22.9 %	0.085	1.5		Moderate hydrolysis
68	B	2,4-D (free acid)	0.052	21.0 %	0.050	-0.1	1.1	
		Chlormequat-Cl	0.093	17.0 %	0.091	-0.1		
		Glyphosate	0.204	23.0 %	0.248	0.9		
		TFNA	0.060	27.3 %	0.061	0.1		
		2,4-D (sum)	0.059	18.9 %	0.049	-0.7		Weak hydrolysis
		Fluazifop (sum)	0.060	18.8 %	0.016	-2.9		Weak hydrolysis (most likely contributed to the underestimated result)
		Haloxyfop (sum)	0.152	16.7 %	0.140	-0.3		Weak hydrolysis
		MCPA (sum)	0.068	20.0 %	0.064	-0.2		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	0.026	-2.2		Weak hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
69	B	2,4-D (free acid)	0.052	21.0 %	0.0526	0.1		
		Carbofuran (sum)	0.106	16.2 %	0.074	-1.2		NO hydrolysis
		Glyphosate	0.204	23.0 %	0.021	-3.6		Pls give feedback on actions to trace back sources for bias
		Bentazone	0.335	19.5 %	0.26	-0.9		
70	B	Carbofuran (sum)	0.106	16.2 %	0.091	-0.6		Hydrolysis conducted
71	B	2,4-D (free acid)	0.052	21.0 %	0.0520	0.0	0.7	

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Carbofuran (sum)	0.106	16.2 %	0.104	-0.1		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.128	1.5		
		TFNA	0.060	27.3 %	0.0694	0.6		
		2,4-D (sum)	0.059	18.9 %	0.0554	-0.2		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		Bentazone	0.335	19.5 %	0.272	-0.8		
		Haloxyfop (sum)	0.152	16.7 %	0.119	-0.9		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		Imazethapyr (free acid)	0.207	17.2 %	0.227	0.4		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		MCPA (sum)	0.068	20.0 %	0.0595	-0.5		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		MCPB (sum)	0.057	28.7 %	0.0232	-2.4		Weak hydrolysis (most likely contributed to the underestimated result). Hydrolysis conditions do not match with reference method stated, please clarify.
		Quizalofop (free acid)	0.044	16.4 %	0.0516	0.6		
		Quizalofop (sum)	0.062	22.9 %	0.0572	-0.3		Weak hydrolysis
73	B	2,4-D (free acid)	0.052	21.0 %	0.048	-0.3	1.1	
		Carbofuran (sum)	0.106	16.2 %	0.104	-0.1		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.123	1.3		
		Glyphosate	0.204	23.0 %	0.211	0.1		
		TFNA	0.060	27.3 %	0.066	0.4		
		2,4-D (sum) [o]	0.059	18.9 %	0.176	8.0		Strong hydrolysis; pls give feedback on actions to trace back sources for bias
		Bentazone	0.335	19.5 %	0.414	1.0		
		Fluazifop (sum)	0.060	18.8 %	0.072	0.8		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.2	1.3		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.242	0.7		
		MCPA (sum)	0.068	20.0 %	0.074	0.4		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.055	-0.1		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.075	0.4		Strong hydrolysis
		Paraquat	0.193	29.9 %	FN	-3.8		Pls give feedback on actions to trace back sources for FN
74	A	2,4-D (free acid)	0.052	21.0 %	0.064	1.0	1.0	
		Carbofuran (sum)	0.106	16.2 %	0.099	-0.3		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.089	-0.2		
		Glyphosate	0.204	23.0 %	0.199	-0.1		
		TFNA	0.060	27.3 %	0.057	-0.2		
		2,4-D (sum)	0.059	18.9 %	0.068	0.6		Weak hydrolysis
		Bentazone	0.335	19.5 %	0.352	0.2		
		Fluazifop (sum)	0.060	18.8 %	FN	-3.3		Weak hydrolysis (most likely contributed to the FN result)
		Haloxyfop (sum)	0.152	16.7 %	0.143	-0.2		Weak hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.300	1.8		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		MCPA (sum)	0.068	20.0 %	0.075	0.4		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	0.019	-2.7		Weak hydrolysis (most likely contributed to the underestimated result)
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
		Paraquat	0.193	29.9 %	0.131	-1.3		
		Quizalofop (free acid)	0.044	16.4 %	0.044	0.0		
		Quizalofop (sum)	0.062	22.9 %	0.051	-0.7		Weak hydrolysis
75	B	2,4-D (free acid)	0.052	21.0 %	0.012	-3.1	1.7	Pls give feedback on actions to trace back sources for bias
		Carbofuran (sum)	0.106	16.2 %	0.15	1.7		Hydrolysis conducted; pls confirm/specify hydrolysis conditions
		Chlormequat-Cl	0.093	17.0 %	0.075	-0.8		
		Glyphosate	0.204	23.0 %	0.21	0.1		
		TFNA	0.060	27.3 %	0.015	-3.0		Pls give feedback on actions to trace back sources for bias
77	B	2,4-D (free acid)	0.052	21.0 %	0.051	-0.1		
		Carbofuran (sum)	0.106	16.2 %	0.11	0.2		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.076	-0.7		
		TFNA	0.060	27.3 %	0.071	0.7		
79	B	Carbofuran (sum)	0.106	16.2 %	0.109	0.1		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.0861	-0.3		
		Glyphosate	0.204	23.0 %	0.220	0.3		
80	B	Chlormequat-Cl	0.093	17.0 %	0.07	-1.0		
82	B	Carbofuran (sum)	0.106	16.2 %	0.0982	-0.3	0.1	Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.0963	0.2		
		Bentazone	0.335	19.5 %	0.342	0.1		
		Fluazifop (sum)	0.060	18.8 %	0.0608	0.0		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.152	0.0		Moderate hydrolysis
84	B	2,4-D (free acid)	0.052	21.0 %	0.0495	-0.2	0.5	
		2,4-D (sum)	0.059	18.9 %	0.0544	-0.3		Moderate hydrolysis
		Fluazifop (sum)	0.060	18.8 %	0.0465	-0.9		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.148	-0.1		Moderate hydrolysis
		MCPA (sum)	0.068	20.0 %	0.0587	-0.5		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0515	-0.4		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.0298	-2.2		Moderate hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.0437	-0.1		
		Quizalofop (sum)	0.062	22.9 %	0.0603	-0.1		Moderate hydrolysis
85	B	Paraquat	0.193	29.9 %	0.174	-0.4		
87	A	2,4-D (free acid)	0.052	21.0 %	0.053	0.1	0.3	
		Carbofuran (sum)	0.106	16.2 %	0.081	-0.9		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.107	0.6		
		Glyphosate	0.204	23.0 %	0.235	0.6		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		TFNA	0.060	27.3 %	0.054	-0.4		
		2,4-D (sum)	0.059	18.9 %	0.056	-0.2		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.338	0.0		
		Fluazifop (sum)	0.060	18.8 %	0.057	-0.2		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.143	-0.2		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.195	-0.2		
		MCPA (sum)	0.068	20.0 %	0.063	-0.3		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.050	-0.5		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.056	-0.7		Strong hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.043	-0.1		
		Quizalofop (sum)	0.062	22.9 %	0.059	-0.2		Strong hydrolysis
88	B	2,4-D (free acid)	0.052	21.0 %	0.078	2.0	1.2	
		Carbofuran (sum)	0.106	16.2 %	0.050	-2.1		NO hydrolysis (may have contributed to result underestimation)
		Chlormequat-Cl	0.093	17.0 %	0.113	0.9		
		Glyphosate	0.204	23.0 %	0.20	-0.1		
		Bentazone	0.335	19.5 %	0.27	-0.8		
90	B	2,4-D (free acid)	0.052	21.0 %	0.056	0.3	0.8	
		Carbofuran (sum)	0.106	16.2 %	0.12	0.5		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.1	0.3		
		Glyphosate	0.204	23.0 %	0.2	-0.1		
		TFNA	0.060	27.3 %	0.08	1.3		
		2,4-D (sum)	0.059	18.9 %	0.057	-0.1		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.45	1.4		
		Fluazifop (sum)	0.060	18.8 %	0.089	1.9		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.20	1.3		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.35	2.8		Pls give feedback on actions to trace back sources for bias
		MCPA (sum)	0.068	20.0 %	0.076	0.5		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.073	1.1		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.070	0.2		Strong hydrolysis
		Paraquat	0.193	29.9 %	0.2	0.2		
		Quizalofop (free acid)	0.044	16.4 %	0.044	0.0		
		Quizalofop (sum)	0.062	22.9 %	0.070	0.5		Strong hydrolysis
91	A	2,4-D (free acid)	0.052	21.0 %	0.0520	0.0	1.1	
		Carbofuran (sum)	0.106	16.2 %	0.127	0.8		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.0832	-0.4		
		Glyphosate	0.204	23.0 %	0.191	-0.3		
		TFNA	0.060	27.3 %	0.0647	0.3		
		2,4-D (sum)	0.059	18.9 %	0.0537	-0.3		Weak hydrolysis

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Bentazone	0.335	19.5 %	0.315	-0.2		
		Fluazifop (sum)	0.060	18.8 %	FN	-3.3		Weak hydrolysis (most likely contributed to the FN result)
		Haloxyfop (sum)	0.152	16.7 %	0.0755	-2.0		Weak hydrolysis (likely to have contributed to the underestimated result)
		MCPA (sum)	0.068	20.0 %	0.0581	-0.6		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	FN	-3.3		Weak hydrolysis (most likely contributed to the FN result)
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
		Quizalofop (free acid)	0.044	16.4 %	0.0466	0.2		
		Quizalofop (sum)	0.062	22.9 %	0.0534	-0.6		Weak hydrolysis
92	B	2,4-D (free acid)	0.052	21.0 %	0.061	0.7	0.4	
		Chlormequat-Cl	0.093	17.0 %	0.085	-0.3		
		Glyphosate	0.204	23.0 %	0.220	0.3		
		TFNA	0.060	27.3 %	0.053	-0.5		
		2,4-D (sum)	0.059	18.9 %	0.061	0.2		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.300	-0.4		
		Fluazifop (sum)	0.060	18.8 %	0.056	-0.3		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.139	-0.3		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.200	-0.1		
		MCPA (sum)	0.068	20.0 %	0.056	-0.7		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.053	-0.3		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.064	-0.2		Strong hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.046	0.1		
		Quizalofop (sum)	0.062	22.9 %	0.054	-0.5		Strong hydrolysis
93	B	2,4-D (free acid)	0.052	21.0 %	0.0513	0.0	0.7	
		Carbofuran (sum)	0.106	16.2 %	0.0755	-1.2		NO hydrolysis
		TFNA	0.060	27.3 %	0.0678	0.5		
		2,4-D (sum)	0.059	18.9 %	0.0582	0.0		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.377	0.5		
		Fluazifop (sum)	0.060	18.8 %	0.0518	-0.6		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.116	-1.0		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.217	0.2		
		MCPA (sum)	0.068	20.0 %	0.0705	0.2		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0381	-1.3		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.0171	-3.0		Strong hydrolysis; pls give feedback on possible sources of negative bias
		Quizalofop (free acid)	0.044	16.4 %	0.0487	0.4		
		Quizalofop (sum)	0.062	22.9 %	0.0614	0.0		Strong hydrolysis
94	B	2,4-D (free acid)	0.052	21.0 %	0.020	-2.5	1.5	Pls give feedback on actions to trace back sources for bias
		Carbofuran (sum)	0.106	16.2 %	0.078	-1.1		NO hydrolysis (but acidic extraction)
		Chlormequat-Cl	0.093	17.0 %	0.078	-0.6		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Glyphosate	0.204	23.0 %	0.246	0.8		
		TFNA	0.060	27.3 %	FN	-3.3		Pls give feedback on actions to trace back sources for FN
		Bentazone	0.335	19.5 %	0.203	-1.6		Use of PSA (malpractice for acidic pesticide, but impact weakened by acidic conditions)
		Fluazifop (sum)	0.060	18.8 %	0.050	-0.7		NO hydrolysis (malpractice for summed residue of acidic pesticide); also use of PSA (malpractice for acidic pesticide; but little effect expected due to low pH). Pls indicate if summed residue was calculated using result of ester
95	B	2,4-D (free acid)	0.052	21.0 %	0.0385	-1.0	1.7	
		Carbofuran (sum)	0.106	16.2 %	0.071	-1.3		NO hydrolysis (but sum CF+CS)
		Chlormequat-Cl	0.093	17.0 %	0.782 (o)	29.8		Pls give feedback on actions to trace back sources for bias
		Glyphosate	0.204	23.0 %	0.133	-1.4		
		TFNA	0.060	27.3 %	0.0310	-1.9		
		Bentazone	0.335	19.5 %	0.217	-1.4		
		Quizalofop (free acid)	0.044	16.4 %	0.0421	-0.2		
96	B	2,4-D (free acid)	0.052	21.0 %	0.0500	-0.1	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.107	0.0		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.122	1.3		
		Glyphosate	0.204	23.0 %	0.122	-1.6		
		2,4-D (sum)	0.059	18.9 %	0.067	0.6		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.387	0.6		
		Fluazifop (sum)	0.060	18.8 %	0.0630	0.2		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.136	-0.4		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.222	0.3		
		MCPA (sum)	0.068	20.0 %	0.0553	-0.7		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0520	-0.3		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.0523	-0.9		Strong hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.0363	-0.7		
		Quizalofop (sum)	0.062	22.9 %	0.0563	-0.4		Strong hydrolysis
97	B	2,4-D (free acid)	0.052	21.0 %	0.0562	0.3		
		Carbofuran (sum)	0.106	16.2 %	0.0520	-2.0		NO hydrolysis (may have contributed to result underestimation)
		TFNA	0.060	27.3 %	0.0690	0.6		
		Quizalofop (free acid)	0.044	16.4 %	0.0554	1.0		
98	A	2,4-D (free acid)	0.052	21.0 %	0.047	-0.4	0.9	
		Carbofuran (sum)	0.106	16.2 %	0.087	-0.7		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.099	0.3		
		Glyphosate	0.204	23.0 %	0.22	0.3		
		TFNA	0.060	27.3 %	0.041	-1.3		
		2,4-D (sum)	0.059	18.9 %	0.047	-0.8		Pls confirm whether analysis did not involve hydrolysis (this would be malpractice for summed residues of acidic pesticides).
		Bentazone	0.335	19.5 %	0.48	1.7		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Fluazifop (sum)	0.060	18.8 %	0.056	-0.3		Pls confirm whether analysis did not involve hydrolysis (this would be malpractice for summed residues of acidic pesticides). Pls also indicate if summed residue was calculated using result of ester
		Haloxyfop (sum)	0.152	16.7 %	0.14	-0.3		Pls confirm whether analysis did not involve hydrolysis (this would be malpractice for summed residues of acidic pesticides). Pls also indicate if summed residue was calculated using result of ester
		Imazethapyr (free acid)	0.207	17.2 %	0.024	-3.5		Pls give feedback on actions to trace back sources for bias
		MCPA (sum)	0.068	20.0 %	0.081	0.8		NO hydrolysis (malpractice for summed residues of acidic pesticides)
		MCPB (sum)	0.057	28.7 %	0.067	0.7		Pls confirm whether analysis did not involve hydrolysis (this would be malpractice for summed residues of acidic pesticides). Pls also indicate if summed residue was calculated using result of ester
		Mecoprop (sum)	0.067	21.2 %	0.078	0.6		Pls confirm whether analysis did not involve hydrolysis (this would be malpractice for summed residues of acidic pesticides). Pls also indicate if summed residue was calculated using result of ester
		Paraquat	0.193	29.9 %	0.15	-0.9		
		Quizalofop (free acid)	0.044	16.4 %	0.051	0.6		
		Quizalofop (sum)	0.062	22.9 %	0.088	1.7		Pls confirm whether analysis did not involve hydrolysis (this would be malpractice for summed residues of acidic pesticides). Pls also indicate if summed residue was calculated using result of ester
99	B	2,4-D (free acid)	0.052	21.0 %	FN	-3.2	1.4	Use of PSA (malpractice for acidic pesticide; but impact expected to be weakened by acetate buffer); pls give feedback on any additional sources for the FN result (e.g. check recovery rate).
		Carbofuran (sum)	0.106	16.2 %	0.06	-1.7		NO hydrolysis (CS for calibration); please give more details on calibration approach
		Chlormequat-Cl	0.093	17.0 %	0.09	-0.1		
		Glyphosate	0.204	23.0 %	0.18	-0.5		
		TFNA	0.060	27.3 %	0.06	0.0		
		2,4-D (sum)	0.059	18.9 %	0.05	-0.6		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.25	-1.0		Use of PSA (malpractice for acidic pesticide, but little effect expected due to acetate buffering)
		Fluazifop (sum)	0.060	18.8 %	0.06	0.0		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.17	0.5		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.28	1.4		Use of PSA (malpractice for acidic pesticide); but PSA-impact weakened by acetate buffer
		MCPA (sum)	0.068	20.0 %	0.05	-1.0		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.09	2.3		Moderate hydrolysis; pls give feedback on actions to trace back sources for bias
		Paraquat	0.193	29.9 %	FN	-3.6		Pls give feedback on actions to trace back sources for FN
		Quizalofop (free acid)	0.044	16.4 %	FN	-3.1		Use of PSA (malpractice for acidic pesticide; but impact expected to be weakened by acetate buffer); pls give feedback on any additional sources for the FN result (e.g. check recovery rate).
100	B	Carbofuran (sum)	0.106	16.2 %	0.090	-0.6	1.1	Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.075	-0.8		
		Glyphosate	0.204	23.0 %	0.210	0.1		
		TFNA	0.060	27.3 %	0.040	-1.4		
		2,4-D (sum)	0.059	18.9 %	0.049	-0.7		Weak hydrolysis (conditions do not match with reference method stated, please clarify)

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Bentazone	0.335	19.5 %	0.286	-0.6		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.056	-0.3		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		Haloxyfop (sum)	0.152	16.7 %	0.160	0.2		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		Imazethapyr (free acid)	0.207	17.2 %	FN	-3.8		Pls give feedback on actions to trace back sources for FN; methodology data missing
		MCPA (sum)	0.068	20.0 %	0.051	-1.0		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		MCPB (sum)	0.057	28.7 %	0.034	-1.6		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		Mecoprop (sum)	0.067	21.2 %	0.025	-2.5		Weak hydrolysis (most likely contributed to the underestimated result). Hydrolysis conditions do not match with reference method stated, please clarify.
		Quizalofop (sum)	0.062	22.9 %	0.060	-0.1		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
101	B	Chlormequat-Cl	0.093	17.0 %	0.087	-0.2		
		Glyphosate	0.204	23.0 %	0.202	0.0		
		Bentazone	0.335	19.5 %	0.439	1.3		
		Quizalofop (free acid)	0.044	16.4 %	0.053	0.8		
102	B	2,4-D (free acid)	0.052	21.0 %	0.054	0.2		Use of PSA (malpractice for acidic pesticide)
		Carbofuran (sum)	0.106	16.2 %	0.071	-1.3		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.194	4.4		Pls give feedback on actions to trace back sources for bias
		Glyphosate	0.204	23.0 %	0.196	-0.2		
103	A	2,4-D (free acid)	0.052	21.0 %	0.036	-1.2	1.6	
		Carbofuran (sum)	0.106	16.2 %	0.105	0.0		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.324 (o)	10.0		Pls give feedback on actions to trace back sources for bias
		Glyphosate	0.204	23.0 %	0.176	-0.6		
		TFNA	0.060	27.3 %	0.070	0.6		
		2,4-D (sum)	0.059	18.9 %	0.036	-1.5		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		Bentazone	0.335	19.5 %	0.228	-1.3		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.018	-2.8		Weak hydrolysis (most likely contributed to the underestimated result). Hydrolysis conditions do not match with reference method stated, please clarify.
		Haloxyfop (sum)	0.152	16.7 %	0.044	-2.8		Weak hydrolysis (most likely contributed to the underestimated result). Hydrolysis conditions do not match with reference method stated, please clarify.
		Imazethapyr (free acid)	0.207	17.2 %	0.183	-0.5		
		MCPA (sum)	0.068	20.0 %	0.054	-0.8		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		MCPB (sum)	0.057	28.7 %	0.032	-1.8		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result). Hydrolysis conditions do not match with reference method stated, please clarify.
		Quizalofop (free acid)	0.044	16.4 %	0.047	0.2		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Quizalofop (sum)	0.062	22.9 %	0.047	-1.0		Weak hydrolysis
104	B	Carbofuran (sum)	0.106	16.2 %	0.066	-1.5		NO hydrolysis (CS for calibration); please give more details on calibration approach
105	B	2,4-D (free acid)	0.052	21.0 %	0.0556	0.3		Use of PSA (malpractice for acidic pesticide)
		Carbofuran (sum)	0.106	16.2 %	0.135	1.1		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.101	0.4		
		TFNA	0.060	27.3 %	0.0708	0.7		Use of PSA (malpractice for acidic pesticides, but recovery correction)
107	B	2,4-D (free acid)	0.052	21.0 %	0.063	0.9		
		Carbofuran (sum)	0.106	16.2 %	0.081	-0.9		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.020	-3.1		Pls give feedback on actions to trace back sources for bias
		Glyphosate	0.204	23.0 %	0.052	-3.0		Pls give feedback on actions to trace back sources for bias
108	A	2,4-D (free acid)	0.052	21.0 %	0.061	0.7	0.4	
		Carbofuran (sum)	0.106	16.2 %	0.093	-0.5		NO hydrolysis (CS for calibration); please give more details on calibration approach
		Chlormequat-Cl	0.093	17.0 %	0.103	0.5		
		Glyphosate	0.204	23.0 %	0.199	-0.1		
		TFNA	0.060	27.3 %	0.060	0.0		
		2,4-D (sum)	0.059	18.9 %	0.064	0.4		Moderate hydrolysis
		Fluazifop (sum)	0.060	18.8 %	0.059	-0.1		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.154	0.1		Moderate hydrolysis
		MCPA (sum)	0.068	20.0 %	0.064	-0.2		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.052	-0.3		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.050	-1.0		Moderate hydrolysis
109	A	2,4-D (free acid)	0.052	21.0 %	0.057	0.4	1.0	
		Carbofuran (sum)	0.106	16.2 %	0.065	-1.5		NO hydrolysis (but acidic extraction)
		Chlormequat-Cl	0.093	17.0 %	0.079	-0.6		
		Glyphosate	0.204	23.0 %	0.104	-2.0		
		TFNA	0.060	27.3 %	0.065	0.3		
110	B	Carbofuran (sum)	0.106	16.2 %	0.051	-2.1		NO hydrolysis (may have contributed to result underestimation)
		Fluazifop (sum)	0.060	18.8 %	0.078	1.2		Pls confirm whether analysis did not involve hydrolysis (this would be malpractice for summed residues of acidic pesticides). Pls also indicate if summed residue was calculated using result of ester
111	A	2,4-D (free acid)	0.052	21.0 %	0.039	-1.0	1.4	
		Carbofuran (sum)	0.106	16.2 %	0.060	-1.7		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.088	-0.2		
		Glyphosate	0.204	23.0 %	0.245	0.8		
		TFNA	0.060	27.3 %	0.087	1.8		
		2,4-D (sum)	0.059	18.9 %	0.023	-2.4		Moderate hydrolysis; not expected to be the reason for the underestimated result. Pls give feedback on actions to trace back sources for bias
		Bentazone	0.335	19.5 %	0.314	-0.3		Use of animo-sorbent (malpractice; but impact expected to be weakened by acetate buffer)

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Fluazifop (sum)	0.060	18.8 %	0.046	-0.9		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.069	-2.2		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.208	0.0		
		MCPA (sum)	0.068	20.0 %	0.032	-2.1		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.023	-2.4		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.013	-3.2		Moderate hydrolysis (likely to have contributed to the underestimated result)
		Quizalofop (free acid)	0.044	16.4 %	0.036	-0.8		
		Quizalofop (sum)	0.062	22.9 %	0.032	-1.9		Moderate hydrolysis
112	A	2,4-D (free acid)	0.052	21.0 %	0.0520	0.0	0.7	
		Carbofuran (sum)	0.106	16.2 %	0.139	1.2		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.0870	-0.2		
		Glyphosate	0.204	23.0 %	0.240	0.7		
		TFNA	0.060	27.3 %	0.0420	-1.2		
113	A	2,4-D (free acid)	0.052	21.0 %	0.058	0.5	0.7	
		Carbofuran (sum)	0.106	16.2 %	0.081	-0.9		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.097	0.2		
		Glyphosate	0.204	23.0 %	0.264	1.2		
		TFNA	0.060	27.3 %	0.064	0.2		
		2,4-D (sum)	0.059	18.9 %	0.065	0.4		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.334	0.0		
		Fluazifop (sum)	0.060	18.8 %	0.062	0.1		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.154	0.1		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.218	0.2		
		MCPA (sum)	0.068	20.0 %	0.102	2.0		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.117	4.2		Strong hydrolysis; pls give feedback on actions to trace back sources for bias
		Mecoprop (sum)	0.067	21.2 %	0.062	-0.3		Strong hydrolysis
		Paraquat	0.193	29.9 %	0.171	-0.5		
		Quizalofop (free acid)	0.044	16.4 %	0.040	-0.4		
		Quizalofop (sum)	0.062	22.9 %	0.056	-0.4		Strong hydrolysis
114	B	2,4-D (free acid)	0.052	21.0 %	0.055	0.3	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.113	0.3		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.092	0.0		
		Glyphosate	0.204	23.0 %	0.200	-0.1		
		TFNA	0.060	27.3 %	0.072	0.8		
		2,4-D (sum)	0.059	18.9 %	0.058	0.0		Weak hydrolysis; Pls confirm hydrolysis conditions
		Bentazone	0.335	19.5 %	0.389	0.7		Weak hydrolysis; Pls confirm hydrolysis conditions
		Fluazifop (sum)	0.060	18.8 %	0.092	2.1		Weak hydrolysis; Pls confirm hydrolysis conditions; pls give feedback on sources of bias

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Haloxyfop (sum)	0.152	16.7 %	0.178	0.7		Weak hydrolysis; Pls confirm hydrolysis conditions
		Imazethapyr (free acid)	0.207	17.2 %	0.325	2.3		
		MCPA (sum)	0.068	20.0 %	0.075	0.4		Weak hydrolysis; Pls confirm hydrolysis conditions
		MCPB (sum)	0.057	28.7 %	0.070	0.9		Weak hydrolysis; Pls confirm hydrolysis conditions
		Mecoprop (sum)	0.067	21.2 %	0.070	0.2		Weak hydrolysis; Pls confirm hydrolysis conditions
		Paraquat	0.193	29.9 %	0.225	0.7		
		Quizalofop (free acid)	0.044	16.4 %	0.045	0.1		
		Quizalofop (sum)	0.062	22.9 %	0.065	0.2		Weak hydrolysis; Pls confirm hydrolysis conditions
115	A	2,4-D (free acid)	0.052	21.0 %	0.055	0.3	0.8	
		Carbofuran (sum)	0.106	16.2 %	0.060	-1.7		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.10	0.3		
		Glyphosate	0.204	23.0 %	0.24	0.7		
		TFNA	0.060	27.3 %	0.056	-0.3		
		2,4-D (sum)	0.059	18.9 %	0.053	-0.4		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable. Hydrolysis conditions do not match with reference method stated, please clarify.
		Bentazone	0.335	19.5 %	0.240	-1.1		
		Fluazifop (sum)	0.060	18.8 %	0.052	-0.5		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable. Hydrolysis conditions do not match with reference method stated, please clarify.
		Haloxyfop (sum)	0.152	16.7 %	0.15	-0.1		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable. Hydrolysis conditions do not match with reference method stated, please clarify.
		Imazethapyr (free acid)	0.207	17.2 %	FN	-3.8		Pls give feedback on actions to trace back sources for FN
		MCPA (sum)	0.068	20.0 %	0.060	-0.5		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable. Hydrolysis conditions do not match with reference method stated, please clarify.
		MCPB (sum)	0.057	28.7 %	0.054	-0.2		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable. Hydrolysis conditions do not match with reference method stated, please clarify.
		Paraquat	0.193	29.9 %	0.24	1.0		
		Quizalofop (free acid)	0.044	16.4 %	0.040	-0.4		
		Quizalofop (sum)	0.062	22.9 %	0.058	-0.3		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
116	B	2,4-D (free acid)	0.052	21.0 %	0.0582	0.5	1.3	
		Carbofuran (sum)	0.106	16.2 %	0.127	0.8		NO hydrolysis (but acidic extraction)
		TFNA	0.060	27.3 %	0.031	-1.9		
		2,4-D (sum)	0.059	18.9 %	0.0652	0.5		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Bentazone	0.335	19.5 %	0.327	-0.1		
		Fluazifop (sum)	0.060	18.8 %	0.0351	-1.7		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Haloxyfop (sum)	0.152	16.7 %	0.183	0.8		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		MCPA (sum)	0.068	20.0 %	0.0918	1.4		Weak hydrolysis; pls confirm that ester was used for calibration and specify

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
								ester where applicable
		MCPB (sum)	0.057	28.7 %	0.0324	-1.7		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Mecoprop (sum)	0.067	21.2 %	0.0146	-3.1		Weak hydrolysis (most likely contributed to the underestimated result); pls confirm that ester was used for calibration and specify the ester used
		Quizalofop (free acid)	0.044	16.4 %	FN*	-3.1		AV<RL! (but still considered FN according to General Protocol)
		Quizalofop (sum)	0.062	22.9 %	0.0617	0.0		Weak hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
118	A	2,4-D (free acid)	0.052	21.0 %	0.062	0.8	0.6	
		Carbofuran (sum)	0.106	16.2 %	0.150	1.7		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.099	0.3		
		Glyphosate	0.204	23.0 %	0.149	-1.1		
		TFNA	0.060	27.3 %	0.069	0.6		
		2,4-D (sum)	0.059	18.9 %	0.055	-0.3		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.323	-0.1		
		Fluazifop (sum)	0.060	18.8 %	0.062	0.1		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.150	-0.1		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.187	-0.4		
		MCPA (sum)	0.068	20.0 %	0.061	-0.4		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.056	-0.1		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.061	-0.4		Strong hydrolysis
		Paraquat	0.193	29.9 %	0.141	-1.1		
		Quizalofop (free acid)	0.044	16.4 %	0.050	0.5		
		Quizalofop (sum)	0.062	22.9 %	0.081	1.2		Strong hydrolysis
119	B	2,4-D (free acid)	0.052	21.0 %	0.040	-0.9	1.0	
		Carbofuran (sum)	0.106	16.2 %	0.108	0.1		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.112	0.8		
		Glyphosate	0.204	23.0 %	0.299	1.9		
		TFNA	0.060	27.3 %	0.047	-0.9		
		2,4-D (sum)	0.059	18.9 %	0.041	-1.2		NO hydrolysis (malpractice for summed residues of acidic pesticides); Pls confirm that NO hydrolysis was conducted as this does not match with related analytes
		Bentazone	0.335	19.5 %	0.338	0.0		
		Fluazifop (sum)	0.060	18.8 %	0.063	0.2		Weak hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.187	0.9		Weak hydrolysis
		MCPA (sum)	0.068	20.0 %	0.043	-1.5		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	0.049	-0.6		Weak hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		NO hydrolysis (malpractice for summed residues of acidic pesticides; most likely contributing to FN result); Pls confirm that NO hydrolysis was conducted as this does not match with the information provided for other related analytes
		Quizalofop (free acid)	0.044	16.4 %	0.037	-0.7		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Quizalofop (sum)	0.062	22.9 %	0.047	-1.0		Weak hydrolysis
120	B	Carbofuran (sum)	0.106	16.2 %	0.0645	-1.6		NO hydrolysis
121	B	2,4-D (free acid)	0.052	21.0 %	0.015	-2.8	2.6	Pls give feedback on actions to trace back sources for bias
		Carbofuran (sum)	0.106	16.2 %	0.260[(o)]	5.8		NO hydrolysis (but acidic extraction); pls give feed-back on actions to trace back sources for bias
		Glyphosate	0.204	23.0 %	0.280	1.5		
		TFNA	0.060	27.3 %	0.093	2.2		Pls specify whether you have used acidic or citrate buffered QuEChERS
		Bentazone	0.335	19.5 %	0.244	-1.1		
		Quizalofop (free acid)	0.044	16.4 %	FN	-3.1		Pls give feedback on actions to trace back sources for FN
122	A	2,4-D (free acid)	0.052	21.0 %	0.0479	-0.3	0.8	
		Carbofuran (sum)	0.106	16.2 %	0.125	0.7		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.104	0.5		
		Glyphosate	0.204	23.0 %	0.232	0.6		
		TFNA	0.060	27.3 %	0.0547	-0.4		
		2,4-D (sum)	0.059	18.9 %	0.0541	-0.3		Strong hydrolysis
		Bentazone	0.335	19.5 %	0.321	-0.2		
		Fluazifop (sum)	0.060	18.8 %	0.0514	-0.6		Strong hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.133	-0.5		Strong hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.176	-0.6		
		MCPA (sum)	0.068	20.0 %	0.0587	-0.5		Strong hydrolysis
		MCPB (sum)	0.057	28.7 %	0.0447	-0.9		Strong hydrolysis
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Strong hydrolysis; pls give feedback on possible sources of FN result
		Quizalofop (free acid)	0.044	16.4 %	0.0343	-0.9		
		Quizalofop (sum)	0.062	22.9 %	0.0451	-1.1		Strong hydrolysis
123	A	2,4-D (free acid)	0.052	21.0 %	0.063	0.9	0.8	
		Carbofuran (sum)	0.106	16.2 %	0.104	-0.1		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.097	0.2		
		Glyphosate	0.204	23.0 %	0.205	0.0		
		TFNA	0.060	27.3 %	0.044	-1.1		
		2,4-D (sum)	0.059	18.9 %	0.063	0.3		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.293	-0.5		
		Fluazifop (sum)	0.060	18.8 %	0.067	0.4		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.164	0.3		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.181	-0.5		
		MCPA (sum)	0.068	20.0 %	0.077	0.6		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.037	-1.4		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.026	-2.5		Moderate hydrolysis
		Paraquat	0.193	29.9 %	0.28	1.8		

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Quizalofop (free acid)	0.044	16.4 %	0.037	-0.7		
		Quizalofop (sum)	0.062	22.9 %	0.038	-1.5		Moderate hydrolysis
124	B	2,4-D (free acid)	0.052	21.0 %	0.054	0.2	0.3	
		Chlormequat-Cl	0.093	17.0 %	0.099	0.3		
		Glyphosate	0.204	23.0 %	0.247	0.8		
		2,4-D (sum)	0.059	18.9 %	0.060	0.1		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.352	0.2		
		Fluazifop (sum)	0.060	18.8 %	0.063	0.2		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.162	0.3		Moderate hydrolysis
		MCPA (sum)	0.068	20.0 %	0.068	0.0		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.052	-0.3		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.049	-1.1		Moderate hydrolysis
		Quizalofop (free acid)	0.044	16.4 %	0.046	0.1		
		Quizalofop (sum)	0.062	22.9 %	0.070	0.5		Moderate hydrolysis
125	A	2,4-D (free acid)	0.052	21.0 %	0.057	0.4	0.4	
		Carbofuran (sum)	0.106	16.2 %	0.112	0.2		Hydrolysis conducted
		Chlormequat-Cl	0.093	17.0 %	0.087	-0.2		
		Glyphosate	0.204	23.0 %	0.210	0.1		
		TFNA	0.060	27.3 %	0.052	-0.6		
		2,4-D (sum)	0.059	18.9 %	0.059	0.0		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.450	1.4		
		Fluazifop (sum)	0.060	18.8 %	0.063	0.2		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.152	0.0		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.265	1.1		
		MCPA (sum)	0.068	20.0 %	0.065	-0.2		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.056	-0.1		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.055	-0.7		Moderate hydrolysis
		Paraquat	0.193	29.9 %	0.185	-0.2		
		Quizalofop (free acid)	0.044	16.4 %	0.051	0.6		
		Quizalofop (sum)	0.062	22.9 %	0.059	-0.2		Moderate hydrolysis
127	B	2,4-D (free acid)	0.052	21.0 %	0.040	-0.9		
		Chlormequat-Cl	0.093	17.0 %	0.091	-0.1		
		TFNA	0.060	27.3 %	0.088	1.8		
128	A	2,4-D (free acid)	0.052	21.0 %	0.065	1.0	0.6	Use of PSA (malpractice for acidic pesticide)
		Carbofuran (sum)	0.106	16.2 %	0.101	-0.2		NO hydrolysis
		Chlormequat-Cl	0.093	17.0 %	0.119	1.1		
		Glyphosate	0.204	23.0 %	0.200	-0.1		
		TFNA	0.060	27.3 %	0.102	2.8		Pls give feedback on actions to trace back sources for bias

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		2,4-D (sum)	0.059	18.9 %	0.066	0.5		NO hydrolysis (malpractice for summed residues of acidic pesticides, but not expected to have significantly influenced result for this compound)
		Bentazone	0.335	19.5 %	0.355	0.2		
		Fluazifop (sum)	0.060	18.8 %	0.061	0.0		Moderate hydrolysis
		Haloxyfop (sum)	0.152	16.7 %	0.141	-0.3		Moderate hydrolysis
		Imazethapyr (free acid)	0.207	17.2 %	0.220	0.3		
		MCPA (sum)	0.068	20.0 %	0.071	0.2		NO hydrolysis (malpractice for summed residue); pls confirm
		MCPB (sum)	0.057	28.7 %	0.056	-0.1		Moderate hydrolysis
		Mecoprop (sum)	0.067	21.2 %	0.069	0.1		Moderate hydrolysis
		Paraquat	0.193	29.9 %	0.226	0.7		
		Quizalofop (free acid)	0.044	16.4 %	0.055	1.0		
		Quizalofop (sum)	0.062	22.9 %	0.055	-0.4		Moderate hydrolysis
129	A	2,4-D (free acid)	0.052	21.0 %	0.076	1.9	1.6	
		Carbofuran (sum)	0.106	16.2 %	0.166	2.3		NO hydrolysis; pls give feedback on actions to trace back sources for bias
		Chlormequat-Cl	0.093	17.0 %	0.112	0.8		
		Glyphosate	0.204	23.0 %	0.063	-2.8		Pls give feedback on actions to trace back sources for bias
		TFNA	0.060	27.3 %	0.032	-1.9		
		2,4-D (sum)	0.059	18.9 %	0.102	3.0		Moderate to strong hydrolysis; pls confirm deviating hydrolysis conditions between analytes
		Bentazone	0.335	19.5 %	0.404	0.8		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Fluazifop (sum)	0.060	18.8 %	0.073	0.8		Moderate hydrolysis; pls confirm deviating hydrolysis conditions between analytes
		Haloxyfop (sum)	0.152	16.7 %	0.170	0.5		Moderate hydrolysis; pls confirm deviating hydrolysis conditions between analytes
		MCPA (sum)	0.068	20.0 %	0.100	1.9		Moderate to strong hydrolysis; pls confirm deviating hydrolysis conditions between analytes
		MCPB (sum)	0.057	28.7 %	0.046	-0.8		Moderate to strong hydrolysis; pls confirm deviating hydrolysis conditions between analytes
		Mecoprop (sum)	0.067	21.2 %	0.099	1.9		Moderate to strong hydrolysis; pls confirm deviating hydrolysis conditions between analytes
		Quizalofop (free acid)	0.044	16.4 %	0.055	1.0		
		Quizalofop (sum)	0.062	22.9 %	0.086	1.6		Moderate hydrolysis; pls confirm deviating hydrolysis conditions between analytes
130	B	Chlormequat-Cl	0.093	17.0 %	0.122	1.3		
		Glyphosate	0.204	23.0 %	0.227	0.5		
132	B	2,4-D (free acid)	0.052	21.0 %	0.054	0.2	1.0	
		Chlormequat-Cl	0.093	17.0 %	0.094	0.1		
		2,4-D (sum)	0.059	18.9 %	0.070	0.8		Moderate hydrolysis
		Bentazone	0.335	19.5 %	0.39	0.7		
		MCPA (sum)	0.068	20.0 %	0.092	1.4		Moderate hydrolysis
		MCPB (sum)	0.057	28.7 %	0.088	2.2		Moderate hydrolysis

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
		Mecoprop (sum)	0.067	21.2 %	0.041	-1.6		Moderate hydrolysis
133	B	2,4-D (free acid)	0.052	21.0 %	0.056	0.3	0.4	Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Carbofuran (sum)	0.106	16.2 %	0.14	1.3		NO hydrolysis (but sum CF+CS)
		Chlormequat-Cl	0.093	17.0 %	0.089	-0.2		
		Bentazone	0.335	19.5 %	0.333	0.0		Hydrolysis conducted (malpractice where residue of free acid is requested, but not expected to have signifficantly influenced result of this compound)
		Haloxyfop (sum)	0.152	16.7 %	0.160	0.2		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
		MCPA (sum)	0.068	20.0 %	0.062	-0.3		Weak hydrolysis (conditions do not match with reference method stated, please clarify)
137	B	2,4-D (free acid)	0.052	21.0 %	0.0611	0.7	0.9	
		Carbofuran (sum)	0.106	16.2 %	0.147	1.5		NO hydrolysis (but acidic extraction)
		Chlormequat-Cl	0.093	17.0 %	0.0960	0.1		
		Glyphosate	0.204	23.0 %	0.215	0.2		
		TFNA	0.060	27.3 %	0.0651	0.3		
		2,4-D (sum)	0.059	18.9 %	0.0611	0.2		Weak hydrolysis
		Bentazone	0.335	19.5 %	0.344	0.1		
		Fluazifop (sum)	0.060	18.8 %	0.0743	0.9		NO hydrolysis (malpractice for summed residues of acidic pesticides), Pls confirm indicate if summed residue was calculated using result of ester.
		Haloxyfop (sum)	0.152	16.7 %	0.155	0.1		NO hydrolysis (malpractice for summed residues of acidic pesticides), Pls confirm indicate if summed residue was calculated using result of ester.
		MCPA (sum)	0.068	20.0 %	0.0633	-0.3		Weak hydrolysis
		MCPB (sum)	0.057	28.7 %	FN*	-3.3		AV<RL. Weak hydrolysis (most likely contributed to the FN result)
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		Weak hydrolysis (most likely contributed to the FN result)
		Paraquat	0.193	29.9 %	0.268	1.6		
		Quizalofop (free acid)	0.044	16.4 %	0.0497	0.5		
29 (3rd)	B	2,4-D (free acid)	0.052	21.0 %	0.0598	0.6	0.4	
		2,4-D (sum)	0.059	18.9 %	0.0603	0.1		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Bentazone	0.335	19.5 %	0.316	-0.2		
		Fluazifop (sum)	0.060	18.8 %	0.0544	-0.4		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Haloxyfop (sum)	0.152	16.7 %	0.153	0.0		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Imazethapyr (free acid)	0.207	17.2 %	0.242	0.7		
		MCPA (sum)	0.068	20.0 %	0.0687	0.1		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		MCPB (sum)	0.057	28.7 %	0.0573	0.0		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Mecoprop (sum)	0.067	21.2 %	0.0863	1.1		Strong hydrolysis; pls confirm that ester was used for calibration and specify ester where applicable
		Quizalofop (free acid)	0.044	16.4 %	0.0519	0.7		
		Quizalofop (sum)	0.062	22.9 %	0.0670	0.3		Strong hydrolysis; pls confirm that ester was used for calibration and specify

Lab Code	Cat.	Analyte	prAV [mg/kg]	CV*	Conc [mg/kg]	z-Score	PrAAZ	Organizers' Comments
								ester where applicable
72 (3rd)	B	2,4-D (free acid)	0.052	21.0 %	0.0579	0.5		
		TFNA	0.060	27.3 %	0.0708	0.7		
		Imazethapyr (free acid)	0.207	17.2 %	0.213	0.1		
		Quizalofop (free acid)	0.044	16.4 %	0.0477	0.3		
83 (3rd)	B	2,4-D (free acid)	0.052	21.0 %	0.110	4.5		PIs give feedback on actions to trace back sources for bias
		Chlormequat-Cl	0.093	17.0 %	0.098	0.2		
		Bentazone	0.335	19.5 %	0.293	-0.5		
		Imazethapyr (free acid)	0.207	17.2 %	0.195	-0.2		
86 (3rd)	B	2,4-D (free acid)	0.052	21.0 %	0.0529	0.1	0.9	Use of PSA (malpractice, but impact weakened by acidic conditions)
		Glyphosate	0.204	23.0 %	0.114	-1.8		
		Bentazone	0.335	19.5 %	0.338	0.0		Use of PSA (malpractice for acidic pesticide, but impact weakened by acidic conditions)
		Imazethapyr (free acid)	0.207	17.2 %	0.237	0.6		Use of PSA (malpractice for free acidic pesticide); but PSA-impact weakened at acidic pH
		Paraquat	0.193	29.9 %	0.106	-1.8		
134 (3rd)	B	2,4-D (free acid)	0.052	21.0 %	0.04	-0.9		
		2,4-D (sum)	0.059	18.9 %	0.04	-1.3		NO hydrolysis (malpractice for summed residues of acidic pesticides, but not expected to have significantly influenced result for this compound)
		Fluazifop (sum)	0.060	18.8 %	FN	-3.3		NO hydrolysis (malpractice for summed residues of acidic pesticides), most likely contributed to the FN result
		Haloxyfop (sum)	0.152	16.7 %	FN	-3.7		NO hydrolysis (malpractice for summed residues of acidic pesticides; most likely contributed to the FN result)
135 (3rd)	B	Carbofuran (sum)	0.106	16.2 %	0.11	0.2		NO hydrolysis (CS for calibration); please give more details on calibration approach
		Imazethapyr (free acid)	0.207	17.2 %	FN	-3.8		Use of PSA (malpractice for acidic pesticide, but PSA-impact weakened due to acetate buffer). Still, pls give feedback on actions to trace back sources for FN
10 (infor-for-mati-ve)	B	2,4-D (free acid)	0.052	21.0 %	0.064	1.0	1.5	Use of PSA (malpractice, but impact weakened by acidic conditions)
		Carbofuran (sum)	0.106	16.2 %	0.064	-1.6		PIs provide details on method used
		Chlormequat-Cl	0.093	17.0 %	0.094	0.1		
		Glyphosate	0.204	23.0 %				PIs specify method conditions
		TFNA	0.060	27.3 %	0.058	-0.2		Use of PSA (malpractice, but impact weakened by acidic conditions)
		2,4-D (sum)	0.059	18.9 %	0.064	0.4		Use of PSA (malpractice for acidic pesticides); PIs specify method conditions
		Bentazone	0.335	19.5 %	0.364	0.4		Use of PSA (malpractice for acidic pesticide, but impact weakened by acidic conditions)
		Fluazifop (sum)	0.060	18.8 %	0.052	-0.5		Use of PSA (malpractice for acidic pesticides); PIs specify method conditions
		Haloxyfop (sum)	0.152	16.7 %				Use of PSA (malpractice for acidic pesticides); PIs specify method conditions
		MCPA (sum)	0.068	20.0 %	0.007	-3.6		NO hydrolysis (malpractice for suumed residue of acidic pesticide) and use of PSA (malpractice for acidic pesticide); These two factors most likely contributed to the underestimated result; PIs specify method conditions
		Mecoprop (sum)	0.067	21.2 %	FN	-3.4		PIs provide method information as well as feedback on actions to trace back sources for FN result
		Paraquat	0.193	29.9 %	FN	-3.6		PIs give feedback on actions to trace back sources for FN

Table 4: False positiv result in the EUPT-SRM15

Lab Code	Compound	MRRL	Analysed	Detected	Conc [mg/kg]	RL [mg/kg]	Judgement
119	TFNG	0.01	Yes	Yes	0.011	0.01	FP

Table 5: Target Pesticide List for the EUPT-SRM15 2020 (Rice), update on 07.02.2020

MANDATORY ANALYTES			
Analytes Name	**Residue definition for the PT and additional remarks**	**MACP/WD**	**MRRL (mg/kg)**
2,4-D	free acid	MACP	0.01
Carbofuran sum	sum of carbofuran, carbosulfan, benfuracarb and furathiocarb expressed as carbofuran	MACP	0.01
Chlormequat	expressed as chlormequat chloride	MACP + WD	0.01
Ethephon		MACP	0.01
Fluazifop	free acid	MACP	0.01
Glufosinate		MACP	0.03
Glyphosate		MACP + WD	0.03
Haloxyfop	free acid	MACP	0.01
Mepiquat	expressed as mepiquat chloride	MACP + WD	0.01
MPP	glufosinate metabolite (=3-(Methylphosphinico)propionic acid, CAS Number 15090-23-0, commonly known as **MPPA**)	MACP	0.03
N-Acetyl-glufosinate		MACP	0.03
TFNA		MACP	0.01
TFNG		MACP	0.01

OPTIONAL ANALYTES			
Analytes Name	**Residue definition for the PT and additional remarks**	**MACP/WD**	**MRRL (mg/kg)**
2,4-D sum	sum of free acid, esters and conjugates analyzed as free acid following hydrolysis, expressed as 2,4-D	MACP	0.01
AMPA	glyphosate metabolite	WD*	0.03
Bentazone			0.01
Diquat	expressed as dication	WD	0.02
Fluazifop sum	sum of free acid, esters and conjugates analyzed as free acid following hydrolysis, expressed as fluazifop	MACP	0.01
Haloxyfop sum	sum of free acid, esters and conjugates analyzed as free acid following hydrolysis, expressed as haloxyfop	MACP	0.01
Imazethapyr	free acid		0.01
MCPA	free acid	WD	0.01
MCPA sum	sum of free acid, esters and conjugates analyzed as free acid following hydrolysis, expressed as MCPA – (*deviates from legal RD, which includes MCPB*)	WD	0.01
MCPB	free acid	WD	0.01
MCPB sum	sum of free acid esters and conjugates analyzed as free acid following hydrolysis, expressed as MCPB – (*deviates from legal RD, which includes MCPA*)	WD	0.01
Mecoprop "sum"	sum of free acid, esters and conjugates analyzed as free acid following hydrolysis, expressed as mecoprop – (*deviates from legal RD which does only include the free acid*)		0.01
Mecoprop	free acid		0.01
N-Acetyl-glyphosate		WD*	0.03
Paraquat	expressed as dication	WD	0.02
Quizalofop	free acid	WD	0.01
Quizalofop sum	sum of free acid, esters and conjugates analyzed as free acid following hydrolysis expressed as quizalofop	WD*	0.01

***Future residue definition; MACP-Reg.:** REGULATION (EU) 2019/533 of 28 March 2019
NCP-WD: Working document on pesticides to be considered for inclusion in the national control programmes to ensure compliance with maximum residue levels of pesticides residues in and on food of plant and animal origin; SANCO/12745/2013; 26–27 November 2018rev. 10(3)