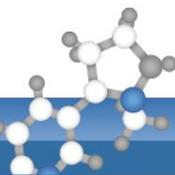




EURL-SRM



EU Reference Laboratories for Residues of Pesticides

Single Residue Methods

EU PROFICIENCY TEST

EUPT-SRM11, 2016

Residues of Pesticides Requiring Single Residue Methods Test Item: Spinach Homogenate

Preliminary Report

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General Remark

Please note that all assigned values, CV*s and z-scores presented in the following are **preliminary**.

The final report of the EUPT-SRM11 will be drafted following the joint EURL/NRL-Workshop and the evaluation of the results by the EUPT-Scientific Committee.

Background

The proficiency test EUPT-SRM11 was conducted using spinach homogenate as test item. To prepare the test item the EURL-FV in Almeria was subcontracted to cultivate blank and treated spinach. The blank material contained three compounds on the target pesticides list as follows: Pymetrozine, which had to be applied in the field to avoid insect infestation; chlorate and perchlorate, which were contained in the irrigation water.

Prior to harvesting the blank material, approximate 2 kg of the spinach were harvested and checked for the absence of the PT relevant pesticides except the three analytes mentioned above. After the spinach for the blank material was harvested, cyromazine, propineb, dodine, flonicamid, dithianon and phosphonic acid were applied to the remaining plants in the field that were used later to prepare the test item. The test item was additionally spiked post harvest with BAC C14, triclopyr, tolylfluanid and quizalofop.

6 of the present compounds (cyromazine, dithiocarbamates, dodine, TFNA and TFNG (both metabolites of flonicamid) and tolylfluanid) were classified as “compulsory” and will be considered in the scope-based lab classification into Categories A and B. The 8 “optional” compounds contained in the test item (BAC-C14, chlorate, dithianon, phosphonic acid, pymetrozine, quizalofop and triclopyr) will not be considered in the scope-based lab classification, but will still be evaluated as far as the quantitative and qualitative results are concerned (z-scores, false positives, false negatives). For the evaluation of the assigned values only the results of the 119 OfLs¹ from EU member states and EFTA countries were considered.

Following homogenization, portions of ca. 350 g of the test item and blank were bottled and distributed on 4 April, 2016 to Spanish and Portuguese laboratories located in Continental Europe, or on 5 April to all other laboratories including Spanish and Portuguese laboratories in remote locations. For some laboratories, where the first shipment was considerably delayed for various reasons, the second shipment was arranged.

The materials were sent to the participants deeply frozen (-20°C) in insulated boxes containing dry ice. Using an online submission tool the participants had the possibility to submit their results by 20 May, 2016, as well as the requested information about the analytical methods employed by **17 June, 2016**.

10 bottles of the test item were selected randomly and tested for homogeneity. Furthermore, the stability of the test material was checked during a period covering the EUPT duration.

Results

In total 119 participating labs from EU and EFTA countries, one OfL from an EU candidate country and one laboratory from a third country submitted results.

Three results, two concerning ethephon and one glyphosate, were preliminarily judged as false positives. 5 results on compounds not present in the material were reported at levels either lower than the MRRLs and were preliminarily not judged as false positive results.

21 labs reported in 27 cases potentially false negative results („analyzed, but not detected“) for compounds present in the test item. Their z-scores in this preliminary report were calculated using the corresponding MRRL in the target pesticide list or the RL, if this was lower. The false negative results concerned cyromazine, TFNA and phosphonic acid (each 1x), dithiocarbamates, perchlorate and pymetrozine (each 2x), chlorate and dithianon (each 3x), tolylfluanid (4x), and quizalofop (6x).

¹ These are labs performing official food controls on pesticides as well as official import controls (“669-Labs”) or official organic food controls (“889-Labs”)

Please note that the final judgement on false positive and false negative results will be done in the final report following consultation with the EUPT-Scientific Committee.

All submitted results on pesticides incurred and spiked to the test material are shown in Table 1 for compulsory compounds and Table 2 for optional compounds. A preliminary list of false positive results is shown in Table 3. Since the coefficients of variation of tolylfluanid (compulsory compound) as well as dithianon and pymetrozine (both optional compounds) were very high, the calculated z-scores for these three analytes are at the moment considered uncertain and are displayed in italic type.

Results preliminarily judged as false negatives are marked in the tables with the abbreviation FN. Empty cells in the tables correspond to 'not analysed' compounds.

The table also contains the results of the participating laboratories from 3rd countries and EU candidate countries. In these cases the z-scores were calculated using the assigned values derived from the results of the EU and EFTA labs.

- **All labs are kindly asked to check their results carefully and to report any errors.**
- **Please note that only transcription errors by the Organizers can be considered at this stage.**
- **Labs with individual absolute z-scores > 2 or false negative or false positive results are kindly asked to give a feedback about any actions undertaken to find out the reasons for their questionable or poor performance via e-mail by 27 June, 2016.**
- **Please check your method information for correctness, and plausibility and fill-in any missing information on sub-page 3 of the data-submission website <http://pesticides.food.dtu.dk/srm> by Friday, 17 June.**

Table 1a: Results for compulsory compounds in EUPT-SRM11 reported by Ofls from EU and EFTA countries (z-scores were calculated using preliminary assigned values)												
Compulsory Analyte	Cyromazine		Dithiocarbamates		Dodine		TFNA		TFNG		Tolyfluanid	
Assigned Value [mg/kg]	1.514		1.298		1.243		0.758		0.448		0.598 (for information only)	
CV*	31.8%		35.0%		26.3%		20.0%		20.7%		57.5%	
No. Results	86		93		83		62		63		83	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
1			0.835	-1.4	1.180	-0.2					0.726	0.9
2	0.700	-2.2	0.275	-3.2	1.170	-0.2	0.808	0.3	0.735	2.6	2.080	9.9
3	1.290	-0.6	0.885	-1.3	1.030	-0.7	0.921	0.9	0.505	0.5	0.685	0.6
4	2.120	1.6	1.610	1.0	1.430	0.6	0.891	0.7	0.473	0.2	0.821	1.5
5	0.730	-2.1	0.310	-3.0	1.260	0.1	0.570	-1.0	0.400	-0.4		
6	2.200	1.8	0.730	-1.8	1.100	-0.5	0.750	0.0	0.180	-2.4	0.570	-0.2
7	1.270	-0.6	1.470	0.5	0.929	-1.0	0.788	0.2	0.487	0.3	0.599	0.0
8	1.260	-0.7	1.933	2.0	1.070	-0.6	0.755	0.0	0.436	-0.1	0.538	-0.4
9	1.600	0.2	1.000	-0.9	1.100	-0.5	0.785	0.1	0.343	-0.9	0.351	-1.7
10												
11	1.500	0.0	1.770	1.5	0.872	-1.2	0.565	-1.0	0.382	-0.6	0.653	0.4
12	1.620	0.3	0.058	-3.8	1.260	0.1	0.875	0.6	0.467	0.2	0.754	1.0
13	1.790	0.7			1.330	0.3	0.799	0.2	0.408	-0.4	0.560	-0.3
14	0.510	-2.7	0.950	-1.1	1.050	-0.6	0.420	-1.8	0.110	-3.0	0.650	0.4
15	1.670	0.4	1.460	0.5	1.190	-0.2	0.659	-0.5	0.530	0.7	0.268	-2.2
16	1.550	0.1	0.994	-0.9	0.742	-1.6	0.861	0.5	0.460	0.1	1.123	3.5
17	1.450	-0.2	1.340	0.1								
18	1.740	0.6	1.630	1.0	1.520	0.9	0.642	-0.6	0.418	-0.3	0.446	-1.0
19			1.200	-0.3							FN	-3.9
20	1.750	0.6	0.993	-0.9	1.380	0.4	0.983	1.2	0.337	-1.0	0.812	1.4
21	3.790	6.0	1.530	0.7	2.200	3.1						
22	1.170	-0.9	1.530	0.7	1.100	-0.5	0.700	-0.3	0.350	-0.9	1.170	3.8
23	1.940	1.1	1.720	1.3	1.850	2.0	1.880	5.9			0.250	-2.3
24	1.955	1.2	1.247	-0.2	1.234	0.0	0.823	0.3	0.484	0.3	0.924	2.2
25	2.210	1.8	1.820	1.6	1.610	1.2						
26	1.320	-0.5	1.290	0.0							0.438	-1.1
27	0.948	-1.5	2.327	3.2	0.146	-3.5	0.503	-1.3	0.363	-0.8	0.738	0.9
28	1.536	0.1	1.667	1.1	1.022	-0.7	0.810	0.3	0.496	0.4	0.860	1.8
29	0.960	-1.5	1.800	1.5	1.000	-0.8	0.770	0.1	0.470	0.2	0.720	0.8
30			1.722	1.3							0.778	1.2
31	0.108	-3.7	0.571	-2.2	1.010	-0.7	0.561	-1.0	0.465	0.2	0.635	0.2
32	1.160	-0.9	0.230	-3.3	1.500	0.8	0.740	-0.1	0.289	-1.4	0.038	-3.7
33	1.383	-0.3	1.462	0.5					0.627	1.6	0.250	-2.3
34	1.480	-0.1	1.390	0.3	1.650	1.3	0.617	-0.7	0.379	-0.6	1.010	2.8

Table 1a: Results for compulsory compounds in EUPT-SRM11 reported by OfLs from EU and EFTA countries (z-scores were calculated using preliminary assigned values)												
Compulsory Analyte	Cyromazine		Dithiocarbamates		Dodine		TFNA		TFNG		Tolyfluanid	
Assigned Value [mg/kg]	1.514		1.298		1.243		0.758		0.448		0.598 (for information only)	
CV*	31.8%		35.0%		26.3%		20.0%		20.7%		57.5%	
No. Results	86		93		83		62		63		83	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
35	2.610	2.9	3.790	7.7	1.140	-0.3	0.980	1.2	0.458	0.1	FN	-3.9
36	1.270	-0.6	1.460	0.5	1.090	-0.5	0.753	0.0	0.434	-0.1	0.671	0.5
37	1.584	0.2			1.454	0.7					0.524	-0.5
38	1.630	0.3	1.420	0.4	1.070	-0.6	0.887	0.7	0.445	0.0	0.295	-2.0
39	1.081	-1.1	0.876	-1.3	0.998	-0.8	0.623	-0.7	0.408	-0.4	0.501	-0.6
40	1.900	1.0	1.800	1.5	1.400	0.5	0.850	0.5	0.520	0.6	0.400	-1.3
41	0.957	-1.5	1.480	0.6	0.961	-0.9	0.619	-0.7	0.436	-0.1	0.310	-1.9
42	1.690	0.5	1.560	0.8	3.020	5.7					0.460	-0.9
43												
45												
46			1.350	0.2								
47			1.810	1.6								
48	1.600	0.2	1.338	0.1	1.290	0.2	0.625	-0.7	0.564	1.0	0.870	1.8
49	1.380	-0.4	1.810	1.6	1.430	0.6	1.380	3.3	0.910	4.1	0.433	-1.1
50	1.640	0.3			0.920	-1.0	0.625	-0.7	0.369	-0.7	0.609	0.1
51			1.340	0.1								
52			0.870	-1.3							0.350	-1.7
53	0.818	-1.8	1.750	1.4	1.290	0.2	0.696	-0.3	0.469	0.2	1.170	3.8
54	2.478	2.5	1.758	1.4	1.572	1.1	0.757	0.0	0.350	-0.9	0.185	-2.8
55	1.570	0.1	FN	-3.9	1.250	0.0	0.710	-0.3	0.500	0.5	0.670	0.5
56	1.838	0.9	1.565	0.8	1.414	0.6	0.870	0.6	0.578	1.2		
57	1.670	0.4	1.225	-0.2	1.450	0.7	0.790	0.2	0.510	0.6	0.055	-3.6
58	1.150	-1.0	0.252	-3.2	1.020	-0.7	0.710	-0.3			1.040	3.0
59			1.650	1.1								
60	1.630	0.3	1.480	0.6	0.698	-1.8	0.817	0.3	0.543	0.8	0.127	-3.2
61	1.699	0.5	1.419	0.4	1.356	0.4	0.775	0.1	0.418	-0.3	0.882	1.9
62	1.015	-1.3									0.470	-0.9
63	2.021	1.3			1.717	1.5					0.748	1.0
64	1.352	-0.4	0.690	-1.9	1.030	-0.7	0.689	-0.4	0.418	-0.3	1.200	4.0
65			1.480	0.6								
66	1.270	-0.6									0.430	-1.1
67			1.577	0.9	1.628	1.2	0.462	-1.6	0.345	-0.9	1.069	3.2
68	1.160	-0.9			0.950	-0.9	0.820	0.3	0.420	-0.3	0.550	-0.3
69	2.030	1.4	1.650	1.1	1.280	0.1	0.902	0.8	0.334	-1.0	0.434	-1.1
70					1.717	1.5					FN	-3.9
71	2.120	1.6	0.434	-2.7	1.100	-0.5	0.445	-1.7	0.356	-0.8	0.384	-1.4

Table 1a: Results for compulsory compounds in EUPT-SRM11 reported by OfLs from EU and EFTA countries (z-scores were calculated using preliminary assigned values)												
Compulsory Analyte	Cyromazine		Dithiocarbamates		Dodine		TFNA		TFNG		Tolyfluanid	
Assigned Value [mg/kg]	1.514		1.298		1.243		0.758		0.448		0.598 (for information only)	
CV*	31.8%		35.0%		26.3%		20.0%		20.7%		57.5%	
No. Results	86		93		83		62		63		83	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
72	1.210	-0.8	1.470	0.5	0.848	-1.3	0.773	0.1	0.375	-0.7	0.624	0.2
73	0.880	-1.7									0.500	-0.7
74	2.380	2.3									1.640	7.0
75	1.420	-0.2	1.240	-0.2	1.130	-0.4					0.910	2.1
76	0.530	-2.6	1.510	0.7	1.010	-0.7					0.550	-0.3
77			FN	-3.9								
78	1.660	0.4	1.160	-0.4	1.110	-0.4	0.713	-0.2	0.471	0.2	0.321	-1.9
79	1.690	0.5	1.150	-0.5	1.120	-0.4			0.495	0.4	0.189	-2.7
80	2.750	3.3										
81	1.967	1.2	1.438	0.4	1.241	0.0	0.777	0.1	0.476	0.2	0.691	0.6
82	0.483	-2.7									0.160	-2.9
83	FN	-4.0	1.070	-0.7	1.020	-0.7					3.250	17.8
84			1.400	0.3	1.370	0.4						
85												
86	1.570	0.1	1.670	1.1	0.900	-1.1					0.490	-0.7
87			1.417	0.4								
88	1.850	0.9	1.110	-0.6	2.127	2.8	1.009	1.3	0.383	-0.6	0.124	-3.2
89			0.270	-3.2								
90					2.400	3.7						
91	1.410	-0.3	1.220	-0.2	1.290	0.2	1.520	4.0	0.492	0.4	1.100	3.4
92			1.420	0.4								
93	1.700	0.5	0.960	-1.0	24.100	73.6	0.398	-1.9	0.316	-1.2	0.451	-1.0
94	1.260	-0.7	1.140	-0.5	0.979	-0.8	0.757	0.0	0.471	0.2	0.665	0.5
95			1.440	0.4								
96	1.050	-1.2	0.526	-2.4	0.960	-0.9					FN	-4.0
97	1.350	-0.4	1.050	-0.8							0.299	-2.0
98	1.000	-1.4			1.200	-0.1					1.300	4.7
99												
100			1.830	1.6								
101			1.650	1.1								
102			2.500	3.7								
103			1.340	0.1								
104												
105	1.300	-0.6			1.140	-0.3						
106	1.800	0.8	1.500	0.6	1.300	0.2	0.530	-1.2	0.450	0.0	0.110	-3.3
107	0.360	-3.0			0.136	-3.6						

Table 1a: Results for compulsory compounds in EUPT-SRM11 reported by OfLs from EU and EFTA countries (z-scores were calculated using preliminary assigned values)												
Compulsory Analyte	Cyromazine		Dithiocarbamates		Dodine		TFNA		TFNG		Tolyfluanid	
Assigned Value [mg/kg]	1.514		1.298		1.243		0.758		0.448		0.598 (for information only)	
CV*	31.8%		35.0%		26.3%		20.0%		20.7%		57.5%	
No. Results	86		93		83		62		63		83	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
108			1.610	1.0								
109												
110					1.090	-0.5					0.242	-2.4
111	2.360	2.2			1.370	0.4	0.728	-0.2	0.531	0.7	1.130	3.6
112			1.430	0.4								
113												
114	1.147	-1.0	0.564	-2.3	0.592	-2.1	FN	-3.9	0.261	-1.7	0.864	1.8
115	1.820	0.8	1.135	-0.5	0.954	-0.9	0.725	-0.2	0.492	0.4	0.364	-1.6
116			0.797	-1.5							0.680	0.6
117	2.080	1.5	1.170	-0.4	1.690	1.4	0.923	0.9	0.580	1.2	0.183	-2.8
118	1.600	0.2			1.810	1.8	0.750	0.0	0.540	0.8	0.800	1.4
119	1.880	1.0	0.579	-2.2	1.940	2.2	0.916	0.8	0.698	2.2	0.439	-1.1
120	1.120	-1.0									0.119	-3.2
121			0.620	-2.1								
122			1.603	0.9								
123			1.510	0.7	1.230	0.0						
127	1.770	0.7			1.330	0.3	0.873	0.6	0.577	1.1	0.494	-0.7
128	1.650	0.4	0.302	-3.1	2.540	4.2	0.663	-0.5	0.489	0.4	0.604	0.0

Table 1b: Results for compulsory compounds in EUPT-SRM11 reported by EU candidate and 3rd countries (z-scores were calculated using preliminary assigned values)												
Compulsory Analyte	Cyromazine		Dithiocarbamates		Dodine		TFNA		TFNG		Tolyfluanid	
Assigned Value [mg/kg]	1.514		1.298		1.243		0.758		0.448		0.598	
CV*	31.8%		35.0%		26.3%		20.0%		20.7%		57.5%	
No. Results	86		93		83		62		63		83	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
44	0.221	-3.4	1.050	-0.8							0.670	0.5
126			0.990	-0.9	0.833	-1.3	0.959	1.1	0.637	1.7	0.320	-1.9

Table 2a: Results for compulsory compounds in EUPT-SRM11 reported by OfLs from EU and EFTA countries (z-scores were calculated using preliminary assigned values)																
Optional Analyte	BAC-C14		Chlorate		Dithianon		Phosphonic acid		Perchlorate		Pymetrozine		Quizalofop		Triclopyr	
Assigned Value [mg/kg]	0.284		2.207		1.729 (for information only)		9.831		0.26		0.432 (for information only)		0.169		0.177	
CV*	25.9%		38.5%		94.4%		29.5%		36.0%		42.4%		24.8%		19.1%	
No. Results	58		42		36		38		43		60		52		60	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
1	0.158	-1.8														
2	0.599	4.4			0.266	-3.4							0.208	0.9	0.402	5.1
3	0.208	-1.1	2.430	0.4			5.870	-1.6	0.240	-0.3			0.165	-0.1	0.191	0.3
4	0.352	0.9	2.750	1.0	2.090	0.8	17.300	3.0	0.361	1.5	0.371	-0.6	FN	-3.8	0.097	-1.8
5	0.350	0.9	2.600	0.7			FN	-4.0	0.390	2.0	0.170	-2.4				
6	0.330	0.6	2.300	0.2	1.300	-1.0	10.200	0.2	0.076	-2.8	1.200	7.1	0.130	-0.9	0.210	0.7
7	0.286	0.0	1.740	-0.8	FN	-4.0	10.570	0.3	0.220	-0.6	0.285	-1.4	0.204	0.8	0.181	0.1
8	0.286	0.0	2.650	0.8	3.290	3.6			0.164	-1.5	0.319	-1.0	0.129	-1.0	0.153	-0.5
9	0.290	0.1	3.100	1.6					0.240	-0.3			0.160	-0.2	0.207	0.7
10																
11	0.210	-1.0			2.900	2.7					0.435	0.0	0.129	-1.0	0.123	-1.2
12	0.343	0.8	2.270	0.1	4.110	5.5	8.130	-0.7	0.190	-1.1	0.461	0.3	0.164	-0.1	0.172	-0.1
13																
14					0.130	-3.7					0.180	-2.3	FN	-3.8	FN	-3.8
15	0.317	0.5	1.300	-1.6			5.680	-1.7	0.194	-1.0	0.628	1.8	0.177	0.2	0.190	0.3
16											0.700	2.5	0.267	2.3		
17											0.306	-1.2				
18	0.349	0.9	FN	-4.0			6.030	-1.5	FN	-3.8	0.522	0.8	0.167	-0.1	0.165	-0.3
19																
20			2.240	0.1			10.100	0.1	0.240	-0.3	0.479	0.4	0.131	-0.9		
21	0.315	0.4													0.207	0.7
22					5.620	9.0							0.084	-2.0	0.160	-0.4
23	0.250	-0.5			0.490	-2.9							0.200	0.7	0.190	0.3
24	0.285	0.0	2.197	0.0	3.792	4.8	11.444	0.7	0.230	-0.5	0.564	1.2	0.206	0.9	0.179	0.0
25											0.332	-0.9				
26	0.319	0.5	0.380	-3.3					0.086	-2.7						
27			0.650	-2.8			5.528	-1.8	0.326	1.0						
28	0.349	0.9	2.741	1.0	3.340	3.7	11.658	0.7	0.258	0.0	0.451	0.2	0.191	0.5	0.194	0.4
29	0.400	1.6	3.000	1.4	0.910	-1.9	10.500	0.3	0.330	1.1	0.540	1.0	0.170	0.0	0.150	-0.6
30																
31			0.298	-3.5	0.991	-1.7	1.206	-3.5	0.865	9.3	0.113	-3.0			0.143	-0.8
32	0.355	1.0	1.100	-2.0	1.000	-1.7	10.800	0.4	0.410	2.3	1.105	6.2	FN	-3.8	0.159	-0.4
33											0.423	-0.1				
34	0.180	-1.5	1.390	-1.5											0.167	-0.2

Table 2a: Results for compulsory compounds in EUPT-SRM11 reported by OfLs from EU and EFTA countries (z-scores were calculated using preliminary assigned values)																
Optional Analyte	BAC-C14		Chlorate		Dithianon		Phosphonic acid		Perchlorate		Pymetrozine		Quizalofop		Triclopyr	
Assigned Value [mg/kg]	0.284		2.207		1.729 (for information only)		9.831		0.26		0.432 (for information only)		0.169		0.177	
CV*	25.9%		38.5%		94.4%		29.5%		36.0%		42.4%		24.8%		19.1%	
No. Results	58		42		36		38		43		60		52		60	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
35																
36	0.298	0.2	1.810	-0.7			9.980	0.1	0.203	-0.9	0.216	-2.0	0.187	0.4	0.175	-0.1
37	0.358	1.0													0.195	0.4
38	0.273	-0.2	2.700	0.9	1.640	-0.2	11.000	0.5	0.270	0.1	0.402	-0.3	0.140	-0.7	0.213	0.8
39	0.239	-0.6									0.491	0.6			0.191	0.3
40	0.403	1.7					10.600	0.3			0.410	-0.2	0.175	0.1	0.180	0.1
41															0.178	0.0
42	0.360	1.1	1.640	-1.0	0.200	-3.5	12.300	1.0	0.230	-0.5	0.590	1.5	0.190	0.5		
43																
45									0.183	-1.2						
46																
47																
48			1.300	-1.6	2.520	1.8	5.650	-1.7	0.247	-0.2	0.304	-1.2	0.101	-1.6	0.117	-1.4
49	0.271	-0.2	FN	-4.0			5.060	-1.9	FN	-3.7	FN	-3.9			0.133	-1.0
50	0.217	-1.0									0.412	-0.2			0.175	-0.1
51																
52																
53	0.283	0.0			2.800	2.5					0.348	-0.8	0.238	1.6	0.210	0.7
54	0.344	0.8	0.694	-2.7	0.434	-3.0	10.970	0.5	0.334	1.1	0.662	2.1	0.149	-0.5	0.258	1.8
55	0.041	-3.4	0.720	-2.7			3.510	-2.6	0.360	1.5	0.260	-1.6			0.210	0.7
56											0.503	0.7			0.193	0.4
57	0.255	-0.4	2.250	0.1	0.150	-3.7	13.500	1.5	0.235	-0.4	0.475	0.4	0.180	0.3	0.230	1.2
58	0.256	-0.4			1.440	-0.7					0.379	-0.5	0.150	-0.5	0.173	-0.1
59																
60											0.529	0.9	0.224	1.3	0.177	0.0
61	0.143	-2.0	2.550	0.6	10.170	19.5	12.350	1.0	0.235	-0.4	0.374	-0.5	0.153	-0.4	0.138	-0.9
62											0.625	1.8				
63	0.365	1.1	2.664	0.8					0.236	-0.4	0.532	0.9	0.349	4.2		
64	0.209	-1.1	0.883	-2.4	0.470	-2.9	8.810	-0.4	0.882	9.6	0.232	-1.8	0.137	-0.8	0.257	1.8
65																
66	0.330	0.6														
67	0.272	-0.2			0.293	-3.3	9.807	0.0					0.144	-0.6	0.148	-0.7
68			2.900	1.3			8.200	-0.7					0.110	-1.4	0.130	-1.1
69			2.250	0.1			12.030	0.9	0.254	-0.1	0.864	4.0	0.218	1.2	0.186	0.2
70																
71	0.249	-0.5											0.148	-0.5	0.173	-0.1

Table 2a: Results for compulsory compounds in EUPT-SRM11 reported by OfLs from EU and EFTA countries (z-scores were calculated using preliminary assigned values)																
Optional Analyte	BAC-C14		Chlorate		Dithianon		Phosphonic acid		Perchlorate		Pymetrozine		Quizalofop		Triclopyr	
Assigned Value [mg/kg]	0.284		2.207		1.729 (for information only)		9.831		0.26		0.432 (for information only)		0.169		0.177	
CV*	25.9%		38.5%		94.4%		29.5%		36.0%		42.4%		24.8%		19.1%	
No. Results	58		42		36		38		43		60		52		60	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
72					0.302	-3.3					0.218	-2.0	0.180	0.3	0.181	0.1
73													1.940	41.8		
74											0.580	1.4				
75	0.192	-1.3			3.440	4.0	9.340	-0.2					0.161	-0.2	0.156	-0.5
76	0.190	-1.3									0.520	0.8	0.140	-0.7	0.240	1.4
77																
78	0.266	-0.3	2.120	-0.2			10.000	0.1	0.210	-0.8	0.304	-1.2	0.193	0.6	0.182	0.1
79			2.520	0.6	1.080	-1.5	10.700	0.4	0.232	-0.4	0.406	-0.2	0.111	-1.4	0.146	-0.7
80																
81					2.399	1.5					0.353	-0.7	FN	-3.8		
82									0.070	-2.9						
83	0.307	0.3	2.260	0.1					0.598	5.2	0.949	4.8			0.170	-0.2
84																
85																
86																
87																
88	0.518	3.3	2.024	-0.3	FN	-4.0	12.115	0.9	0.179	-1.2	0.763	3.1	0.210	1.0	0.154	-0.5
89																
90	0.241	-0.6														
91	0.332	0.7	2.350	0.3			11.400	0.6	0.224	-0.6	0.511	0.7	FN	-3.8	0.160	-0.4
92																
93	0.219	-0.9	3.200	1.8	1.960	0.5			0.275	0.2	0.338	-0.9	0.249	1.9		
94	0.234	-0.7											0.182	0.3	0.180	0.1
95																
96	0.309	0.3			2.810	2.5					FN	-4.0			0.172	-0.1
97											0.310	-1.1				
98					0.110	-3.7					0.070	-3.4	FN	-3.8	0.110	-1.5
99																
100																
101																
102																
103																
104																
105																
106	0.230	-0.8	2.600	0.7	0.056	-3.9	10.300	0.2	0.250	-0.2			0.150	-0.5	0.160	-0.4
107			FN	-4.0	FN	-4.0			0.276	0.2	0.045	-3.6				

Table 2a: Results for compulsory compounds in EUPT-SRM11 reported by OfLs from EU and EFTA countries (z-scores were calculated using preliminary assigned values)																
Optional Analyte	BAC-C14		Chlorate		Dithianon		Phosphonic acid		Perchlorate		Pymetrozine		Quizalofop		Triclopyr	
Assigned Value [mg/kg]	0.284		2.207		1.729 (for information only)		9.831		0.26		0.432 (for information only)		0.169		0.177	
CV*	25.9%		38.5%		94.4%		29.5%		36.0%		42.4%		24.8%		19.1%	
No. Results	58		42		36		38		43		60		52		60	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
108																
109													0.181	0.3	0.187	0.2
110	0.223	-0.9									1.310	8.1				
111			2.460	0.5			12.600	1.1	0.177	-1.3			0.204	0.8	0.255	1.8
112																
113																
114	0.227	-0.8	0.251	-3.5	0.227	-3.5			0.821	8.6	0.351	-0.7	0.149	-0.5	0.105	-1.6
115	0.322	0.5	2.590	0.7			14.000	1.7	0.212	-0.7	0.365	-0.6	0.154	-0.4	0.228	1.1
116											0.292	-1.3				
117	0.262	-0.3	2.720	0.9	0.125	-3.7	10.600	0.3	0.223	-0.6	0.376	-0.5	0.170	0.0	0.177	0.0
118															FN	-3.8
119	0.195	-1.3									0.267	-1.5	0.129	-1.0		
120																
121																
122																
123	0.310	0.4			2.770	2.4										
127											0.582	1.4	0.121	-1.1		
128	0.388	1.5	3.050	1.5	4.060	5.4	10.200	0.2	0.502	3.7	0.504	0.7	0.222	1.2	0.205	0.6

Table 2b: Results for compulsory compounds in EUPT-SRM11 reported by EU candidate and 3rd countries (z-scores were calculated using preliminary assigned values)																
Optional Analyte	BAC-C14		Chlorate		Dithianon		Phosphonic acid		Perchlorate		Pymetrozine		Quizalofop		Triclopyr	
Assigned Value [mg/kg]	0.284		2.207		1.729		9.831		0.26		0.432		0.169		0.177	
CV*	25.9%		38.5%		94.4%		29.5%		36.0%		42.4%		24.8%		19.1%	
No. Results	58		42		36		38		43		60		52		60	
Labor No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
44	0.281	0.0			1.940	0.5										
126	0.290	0.1													0.158	0.0

Labor No.	Analyte	MRRL [mg/kg]	Reported results [mg/kg] (cp. to MRRL)	Preliminary Judgement
29	Glyphosate	0.03	< 0.03 (= MRRL)	Not as FP
53	BAC-C12 (expressed as chloride salt)	0.02	< 0.020 (= MRRL)	Not as FP
53	BAC-C16 (expressed as chloride salt)	0.02	< 0.020 (= MRRL)	Not as FP
53	DDAC-C10 (expressed as chloride salt)	0.02	< 0.020 (= MRRL)	Not as FP
68	Fosetyl	0.02	0.01 (< MRRL)	Not as FP
88	Ethephon	0.02	0.131 (> MRRL)	FP
88	Glyphosate	0.03	0.03 (= MRRL)	FP
102	Ethephon	0.02	1.2 (> MRRL)	FP