

## Attachment no. 1 to the Certificate of Analysis for work order ST2413125

Sample:

24SE1\_0,02-0,15

ALS SAMPLE ID: ST2413125/ 001

Measurement results PCDD/Fs:

Sample:		24SE1_0,02-0,15			
		Final extract [ $\mu$ l]:	75		
Sample weight [g]:	4.971	Injection volume [ $\mu$ l]:	4		
Dry matter [%]:	75.7	Acquisition date [d.m.y]:	20.04.2024		
2,3,7,8-PCDD/Fs	Result [ng/kg dw]	Limit of Detection [ng/kg dw]	Limit of Quantification [ng/kg dw]	<sup>1</sup> WHO-TEFs	WHO-TEQ Upperbound [ng/kg dw]
2,3,7,8-TCDD	< 0.62	0.31	0.62	1	0.62
1,2,3,7,8-PeCDD	< 1.2	0.61	1.2	1	1.2
1,2,3,4,7,8-HxCDD	< 1.2	1.2	2.5	0.1	0.12
1,2,3,6,7,8-HxCDD	< 0.88	0.88	1.8	0.1	0.088
1,2,3,7,8,9-HxCDD	< 2	0.98	2	0.1	0.2
1,2,3,4,6,7,8-HpCDD	< 24	12	24	0.01	0.24
OCDD	< 95	48	95	0.0003	0.029
2,3,7,8-TCDF	< 2.1	1.1	2.1	0.1	0.21
1,2,3,7,8-PeCDF	< 1.4	0.71	1.4	0.03	0.043
2,3,4,7,8-PeCDF	< 1.5	0.77	1.5	0.3	0.46
1,2,3,4,7,8-HxCDF	< 2.1	1	2.1	0.1	0.21
1,2,3,6,7,8-HxCDF	< 1.1	1.1	2.2	0.1	0.11
1,2,3,7,8,9-HxCDF	< 1.5	1.5	3.1	0.1	0.15
2,3,4,6,7,8-HxCDF	< 2.4	1.2	2.4	0.1	0.24
1,2,3,4,6,7,8-HpCDF	< 16	8.2	16	0.01	0.16
1,2,3,4,7,8,9-HpCDF	< 3.7	3.7	7.5	0.01	0.037
OCDF	< 12	6	12	0.0003	0.0036
WHO-TEQ from quantified 2,3,7,8-PCDD/Fs -"Lowerbound"					0
WHO-TEQ from 2,3,7,8-PCDD/Fs -,"Mediumbound"					2.1
Maximum possible WHO-TEQ -"Upperbound"					4.2
PCDDs	Result [ng/kg dw]	PCDFs	Result [ng/kg dw]		
Tetra-CDDs	13	Tetra-CDFs	< 40		
Penta-CDDs	15	Penta-CDFs	< 20		
Hexa-CDDs	19	Hexa-CDFs	< 17		
Hepta-CDDs	42	Hepta-CDFs	< 33		
OCDD	< 95	OCDF	< 12		
Total PCDDs	89	Total PCDFs	< 120		

<sup>1</sup>WHO 2005 TEF according to Van den Berg et al: Toxicological Sciences Advance Acces, 7 July 2006)

The limit of quantification is defined as double of the detection limit.

The limit of detection is defined as the amount of analyte producing a signal with  $S/N \geq 3$ .

The value of detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double ( $k=2$ ) relative standard deviation (RSD%), and corresponds to 95% confidence interval.

Estimation of uncertainty of each 2,3,7,8-PCDD/F congener is 30% and total WHO-TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility.

Results marked "<" are bellow limit of detection or quantification.

"Lowerbound" and "Upperbound" are levels defined in Regulation 2017/644 and EN 1948-4.

"Mediumbound" is levels defined in Regulation 2017/644.