



Attachment no. 3 to the Certificate of Analysis for work order PR2258582

Sample: NE 9

ALS SAMPLE ID: PR2258582/ 003

Measurement results PCDD/Fs:

Sample:		NE 9			
Sample volume [ml]: 970		Final extract [µl]:		60	
		Injection volume [µl]:		4	
		Acquisition date [d.m.y]:		14.06.2022	
2,3,7,8-PCDD/Fs	Result [pg/l]	Limit of Detection [pg/l]	Limit of Quantification [pg/l]	¹ I-TEFs	I-TEQ Upperbound [pg/l]
2,3,7,8-TCDD	< 0.55	0.55	1.1	1	0.55
1,2,3,7,8-PeCDD	< 1.4	1.4	2.7	0.5	0.68
1,2,3,4,7,8-HxCDD	< 4.6	4.6	9.1	0.1	0.46
1,2,3,6,7,8-HxCDD	< 4.6	4.6	9.1	0.1	0.46
1,2,3,7,8,9-HxCDD	< 4.6	4.6	9.1	0.1	0.46
1,2,3,4,6,7,8-HpCDD	< 1.8	1.8	3.5	0.01	0.018
OCDD	< 2.2	2.2	4.4	0.001	0.0022
2,3,7,8-TCDF	< 0.66	0.66	1.3	0.1	0.066
1,2,3,7,8-PeCDF	< 2.7	2.7	5.3	0.05	0.13
2,3,4,7,8-PeCDF	< 1.7	1.7	3.4	0.5	0.86
1,2,3,4,7,8-HxCDF	< 1.3	1.3	2.5	0.1	0.13
1,2,3,6,7,8-HxCDF	< 1.6	1.6	3.1	0.1	0.16
1,2,3,7,8,9-HxCDF	< 3.6	3.6	7.3	0.1	0.36
2,3,4,6,7,8-HxCDF	< 3.2	3.2	6.4	0.1	0.32
1,2,3,4,6,7,8-HpCDF	< 1.3	1.3	2.6	0.01	0.013
1,2,3,4,7,8,9-HpCDF	< 1.3	1.3	2.6	0.01	0.013
OCDF	< 2.8	2.8	5.6	0.001	0.0028
I-TEQ from quantified 2,3,7,8-PCDD/Fs - "Lowerbound"					0
I-TEQ from 2,3,7,8-PCDD/Fs -, "Mediumbound"					2.3
Maximum possible I-TEQ -"Upperbound"					4.7
PCDDs	Result [pg/l]	PCDFs	Result [pg/l]		
Tetra-CDDs	< 12	Tetra-CDFs	< 25		
Penta-CDDs	< 19	Penta-CDFs	< 75		
Hexa-CDDs	< 46	Hexa-CDFs	< 20		
Hepta-CDDs	< 3.5	Hepta-CDFs	< 5.2		
OCDD	< 2.2	OCDF	< 2.8		
Total PCDDs	< 83	Total PCDFs	< 130		

¹I-TEF according to NATO.

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≥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 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.