

**Investigation on
PCDDs/PCDFs and several PCBs
in Fish Samples (Salmon and Trout)**



**Analysis and report provided by
ERGO Forschungsgesellschaft mbH, Germany
for the Food Safety Authority of Ireland**

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1 Order

The order was given in writing on 17.09.2001 resp. 26.09.2001 by the client mentioned above.

The order has the following internal project code: A-0690-01-400.

2 Sampling and shipment

The sampling was done resp. organized by the customer. The samples were sent in frozen state by a courier service. The samples arrived frozen in the ERGO laboratory and were stored at -18°C until the beginning of the analyses.

3 Description of sample

Sample code	Client code	Matrix	Receipt of sample	Date of the test performance
H-01-09-0200	ENV 2001 / 305	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0201	ENV 2001 / 306	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0202	ENV 2001 / 308	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0203	ENV 2001 / 309	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0204	ENV 2001 / 310	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0205	ENV 2001 / 311	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0206	ENV 2001 / 312	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0207	ENV 2001 / 313	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0208	ENV 2001 / 314	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0209	ENV 2001 / 315	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0210	ENV 2001 / 316	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0211	ENV 2001 / 317	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001

Sample code	Client code	Matrix	Receipt of sample	Date of the test performance
H-01-09-0212	ENV 2001 / 318	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0213	ENV 2001 / 319	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0214	ENV 2001 / 320	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0215	RES 2001 / 030	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0216	RES 2001 / 031	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0217	RES 2001 / 032	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0218	RES 2001 / 036	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0219	RES 2001 / 039	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0220	RES 2001 / 040	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0221	RES 2001 / 044	fish (salmon)	18.09.2001	20.09.2001 – 30.11.2001
H-01-09-0222	RES 2001 / 045	fish (salmon)	18.09.2001	01.10.2001 – 30.11.2001
H-01-09-0223	RES 2001 / 051	fish (salmon)	18.09.2001	01.10.2001 – 30.11.2001
H-01-09-0224	RES 2001 / 001	fish (salmon)	18.09.2001	01.10.2001 – 30.11.2001
H-01-09-0225	RES 2001 / 002	fish (salmon)	18.09.2001	01.10.2001 – 30.11.2001
H-01-09-0226	RES 2001 / 014	fish (salmon)	18.09.2001	01.10.2001 – 30.11.2001
H-01-09-0227	RES 2001 / 020	fish (salmon)	18.09.2001	01.10.2001 – 30.11.2001
H-01-09-0228	RES 2001 / 024	fish (salmon)	18.09.2001	01.10.2001 – 30.11.2001
H-01-09-0229	RES 2001 / 028	fish (salmon)	18.09.2001	01.10.2001 – 30.11.2001

Sample code	Client code	Matrix	Receipt of sample	Date of the test performance
H-01-09-0884	ENV 2001/353	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0885	ENV 2001/354	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0886	ENV 2001/355	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0887	ENV 2001/356	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0888	ENV 2001/357	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0889	ENV 2001/358	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0890	ENV 2001/359	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0891	ENV 2001/360	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0892	ENV 2001/361	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0893	ENV 2001/362	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0894	ENV 2001/363	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0895	ENV 2001/364	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0896	ENV 2001/365	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0897	ENV 2001/366	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001
H-01-09-0898	ENV 2001/367	fish (trout)	27.09.2001	30.09.2001 – 30.11.2001

4 General information about analytes

4.1 General information about PCDDs/PCDFs

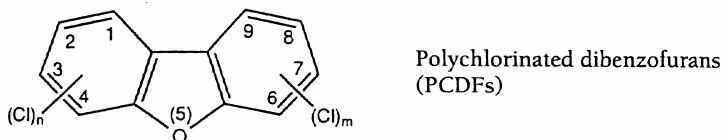
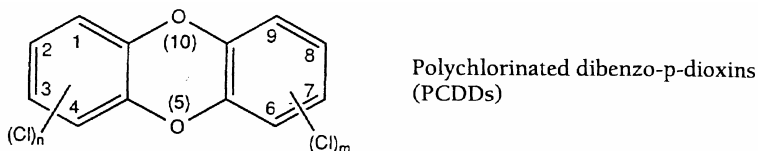
Polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) are unwanted by-products in a variety of industrial and thermal processes. However, their levels in the environment increased significantly with the beginning of the industrial chlorine industry in this century. Because of their many sources, PCDDs and PCDFs are ubiquitously distributed. The degree of chlorination of the tricyclic components varies between 1 and 8 atoms per molecule. The overall number of dioxins and furans is 75 and 135, respectively.

In humans, only the isomeres with 2,3,7,8-substitution are found, totaling seven dioxins and 10 furans. Humans may become contaminated with PCDD/PCDF through environmental (background), occupational, or accidental exposure.

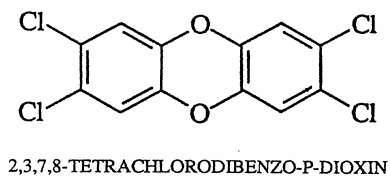
It is generally agreed that for the normal population, food represents the main route of environmental exposure to PCDD/s/PCDFs. Usually more than 90% of the total daily intake of these contaminants derives from food.

In contrast, exposure via other routes, such as inhalation and ingestion of particles from air, ingestion of contaminated soil, and dermal absorption, normally contributes less than 10% of daily intake. Because humans are the high end of the food chain, it becomes obvious that human tissue may contain relatively high amounts of xenobiotics such as PCDDs/PCDFs. Because of the lipophilic nature of these two classes of environmental contaminants, food-stuffs of animal origin are of special importance.

The following figure shows the general structure of polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs):

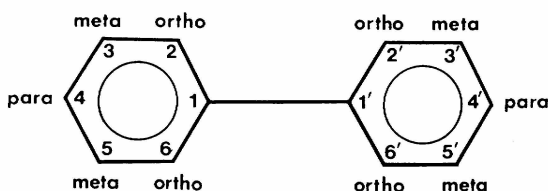


The following figure shows the formula of 2,3,7,8-Tetrachlorodibenzo-p-dioxin, the most toxic compound of PCDDs/PCDFs.



4.2 General Information about PCBs

The following figure shows the general structure of a biphenyl :



Polychlorinated biphenyls (PCBs) are produced by substituting chlorine atoms for some or all of the hydrogen atoms of biphenyl molecules. The overall number of polychlorinated biphenyls is 209. The degree of chlorination of the biphenyl varies between one and ten. Some years ago the TEF system has been broadened to include certain dioxin-like PCBs. In 1993 an international WHO committee agreed on TEFs for certain PCB congeners (which bind to the Ah-receptor). Most of the dioxin-like PCBs were assigned much lower TEF values than dioxins.

The following table shows the TEF values for human beings and mammals laid down by the WHO in 1997 :

International TEFs for human beings and mammals

PCDDs (dioxins)		TEF	PCBs with no chlorine at <i>ortho</i> positions ('coplanar' PCBs)		TEF
2,3,7,8-TCDD ('TCDD')		1	3,3',4,4'-TCB		0.0001
1,2,3,7,8-PeCDD		1	3,4,4',5-TCB		0.0001
1,2,3,4,7,8-HxCDD		0.1	3,3',4,4',5-PeCB		0.1
1,2,3,7,8,9-HxCDD		0.1	3,3',4,4',5,5'-HxCB		0.01
1,2,3,6,7,8-HxCDD		0.1			
1,2,3,4,6,7,8-HpCDD		0.01			
OCDD		0.0001			
PCDFs (furans)			PCBs with one chlorine atom at <i>ortho</i> position		
2,3,7,8-TCDF		0.1	2,3,3',4,4'-PeCB		0.0001
1,2,3,7,8-PeCDF		0.05	2,3,4,4',5-PeCB		0.0005
2,3,4,7,8-PeCDF		0.5	2,3',4,4',5-PeCB		0.0001
1,2,3,4,7,8-HxCDF		0.1	2',3,4,4',5-PeCB		0.0001
1,2,3,7,8,9-HxCDF		0.1	2,3,3',4,4',5-HxCB		0.0005
1,2,3,6,7,8-HxCDF		0.1	2,3,3',4,4',5,5'-HxCB		0.0005
2,3,4,6,7,8-HxCDF		0.1	2,3',4,4',5,5'-HxCB		0.00001
1,2,3,4,6,7,8-HpCDF		0.01	2,3,3',4,4',5,5'-HpCB		0.0001
1,2,3,4,7,8,9-HpCDF		0.01			
OCDF		0.0001			

T = tetra (4 chlorine atoms)
Pe = penta (5 chlorine atoms)
Hx = hexa (6 chlorine atoms)
Hp = hepta (7 chlorine atoms)
O = octa (8 chlorine atoms)

Source : *Persistent Organic Pollutants*, Monitor 16, 2000, Swedish Environmental Protection Agency

5 Analytical Procedure

In the following the analytical procedures for the analysis of PCDDs/PCDFs, "Marker-PCBs" and "WHO-PCBs" are shown.

5.1 Analytical procedure (PCDDs/PCDFs, "WHO-PCBs")

We would like to mention, that the measurements are done *by high resolution mass spectrometry (HRMS)*, which guarantees high specificity and high sensitivity.

Prior the extraction following ^{13}C -UL-labeled internal standards are added to the sample:

Internal standards (^{13}C -UL), PCDDs/PCDFs			
PCDDs		PCDFs	
2,3,7,8	-Tetra-CDD	2,3,7,8	-Tetra-CDF
1,2,3,7,8	-Penta-CDD	1,2,3,7,8	-Penta-CDF
		2,3,4,7,8	-Penta-CDF
1,2,3,4,7,8	-Hexa-CDD	1,2,3,4,7,8	-Hexa-CDF
1,2,3,6,7,8	-Hexa-CDD	1,2,3,6,7,8	-Hexa-CDF
1,2,3,7,8,9	-Hexa-CDD	1,2,3,7,8,9	-Hexa-CDF
		2,3,4,6,7,8	-Hexa-CDF
1,2,3,4,6,7,8	-Hepta-CDD	1,2,3,4,6,7,8	-Hepta-CDF
		1,2,3,4,7,8,9	-Hepta-CDF
1,2,3,4,6,7,8,9	-Octa-CDD	1,2,3,4,6,7,8,9	-Octa-CDF

	Internal standards (^{13}C -UL), WHO-PCBs		
	Compound		IUPAC Code
Non-ortho PCBs	3,3',4,4'	-Tetra-CB	PCB 77
	3,4,4',5	-Tetra-CB	PCB 81
	3,3',4,4',5	-Penta-CB	PCB 126
	3,3',4,4',5,5'	-Hexa-CB	PCB 169
Mono-ortho PCBs	2,3,3',4,4'	-Penta-CB	PCB 105
	2,3,4,4',5	-Penta-CB	PCB 114
	2,3',4,4',5	-Penta-CB	PCB 118
	2',3,4,4',5	-Penta-CB	PCB 123
	2,3,3',4,4',5	-Hexa-CB	PCB 156
	2,3,3',4,4',5'	-Hexa-CB	PCB 157
	2,3',4,4',5,5'	-Hexa-CB	PCB 167
	2,3,3',4,4',5,5'	-Hepta-CB	PCB 189

After spiking, the samples are extracted/solved with appropriate solvents for ultratrace-analyses (e.g. nanograde) by using a solid / lipid extraction.

The clean up is done on a multicolumn system (involving carbon-on-glasfibre). The measurement is done by means of high resolution gaschromatography and high resolution mass spectrometry (HRGC/HRMS) with VG-AutoSpec and/or Finnigan MAT 95 XL using DB-5 capillary columns.

For each component 2 isotope masses are measured. The quantification is carried out by the use of internal/external standard mixtures (isotope dilution method). Following PCDDs/PCDFs and PCBs are determined and reported.

PCDDs/PCDFs			
PCDDs		PCDFs	
2,3,7,8	-Tetra-CDD	2,3,7,8	-Tetra-CDF
1,2,3,7,8	-Penta-CDD	1,2,3,7,8	-Penta-CDF
		2,3,4,7,8	-Penta-CDF
1,2,3,4,7,8	-Hexa-CDD	1,2,3,4,7,8	-Hexa-CDF
1,2,3,6,7,8	-Hexa-CDD	1,2,3,6,7,8	-Hexa-CDF
1,2,3,7,8,9	-Hexa-CDD	1,2,3,7,8,9	-Hexa-CDF
		2,3,4,6,7,8	-Hexa-CDF
1,2,3,4,6,7,8	-Hepta-CDD	1,2,3,4,6,7,8	-Hepta-CDF
		1,2,3,4,7,8,9	-Hepta-CDF
1,2,3,4,6,7,8,9	-Octa-CDD	1,2,3,4,6,7,8,9	-Octa-CDF

	WHO-PCBs		
	Compound		IUPAC Code
Non-ortho PCBs	3,3',4,4'	-Tetra-CB	PCB 77
	3,4,4',5	-Tetra-CB	PCB 81
	3,3',4,4',5	-Penta-CB	PCB 126
	3,3',4,4',5,5'	-Hexa-CB	PCB 169
Mono-ortho PCBs	2,3,3',4,4'	-Penta-CB	PCB 105
	2,3,4,4',5	-Penta-CB	PCB 114
	2,3',4,4',5	-Penta-CB	PCB 118
	2',3,4,4',5	-Penta-CB	PCB 123
	2,3,3',4,4',5	-Hexa-CB	PCB 156
	2,3,3',4,4',5'	-Hexa-CB	PCB 157
	2,3',4,4',5,5'	-Hexa-CB	PCB 167
	2,3,3',4,4',5,5'	-Hepta-CB	PCB 189

In addition to the single results, calculations of the toxicity equivalents (TEQ) according to the NATO/CCMS and the WHO-system are carried out.

5.2 Analytical procedure ("Marker"-PCBs)

Within the scope of the investigation, the PCBs 18, 28, 31, 33, 37, 41, 44, 47, 49, 51, 52, 60, 66, 74, 87, 99, 101, 110, 118, 138, 141, 151, 153, 180, 183, 185, 187, 191, 193, 194, 201, 203, 206 and 209 are determined. Before the extraction the following ^{13}C -UL-labeled internal standards are added to the sample:

2,4,4'-Tri-PCB (PCB-28)	^{13}C -UL
2,2',5,5'-Tetra-PCB (PCB-52)	^{13}C -UL
2,2',4,5,5'-Penta-PCB (PCB-101)	^{13}C -UL
2,2',3,4,4',5'-Hexa-PCB (PCB-138)	^{13}C -UL
2,2',4,4',5,5'-Hexa-PCB (PCB-153)	^{13}C -UL
2,2',3,4,4',5,5'-Hepta-PCB (PCB-180)	^{13}C -UL

After the spiking, the samples are extracted with appropriate solvents for ultratrace-analyses (e.g. nanograde). In the following, a column clean up is performed. The measurement is done by means of high resolution gaschromatography and mass spectrometry (HRGC/MS) using DB-5 capillary columns.

For each substance 2 isotope masses are measured. The quantification is carried out with the use of internal/external standard mixtures.

6 Results

You will find the detailed results in the following table (TEQ-value) respectively on the data sheets attached (detail-information). The results are valid for the analyzed samples only.

6.1 Results lipid based

Laboratory code	Client code	Matrix	TEQ (WHO) PCDDs/PCDFs in ng/kg, lipid based	
			PCDDs/PCDFs	PCDDs/PCDFs and WHO-PCBs
H-01-09-0200	ENV 2001 / 305	fish (salmon)	2,6	7,9
H-01-09-0201	ENV 2001 / 306	fish (salmon)	3,8	12
H-01-09-0202	ENV 2001 / 308	fish (salmon)	1,8	7,2
H-01-09-0203	ENV 2001 / 309	fish (salmon)	1,3	6,8
H-01-09-0204	ENV 2001 / 310	fish (salmon)	2,9	7,8
H-01-09-0205	ENV 2001 / 311	fish (salmon)	2,6	7,5
H-01-09-0206	ENV 2001 / 312	fish (salmon)	1,9	8,4
H-01-09-0207	ENV 2001 / 313	fish (salmon)	3,2	10,2
H-01-09-0208	ENV 2001 / 314	fish (salmon)	4,8	14,4
H-01-09-0209	ENV 2001 / 315	fish (salmon)	2,2	6,6
H-01-09-0210	ENV 2001 / 316	fish (salmon)	1,9	5,7
H-01-09-0211	ENV 2001 / 317	fish (salmon)	3,9	11,1
H-01-09-0212	ENV 2001 / 318	fish (salmon)	3,0	8,6
H-01-09-0213	ENV 2001 / 319	fish (salmon)	2,5	8,7
H-01-09-0214	ENV 2001 / 320	fish (salmon)	1,7	5,1
H-01-09-0215	RES 2001 / 030	fish (salmon)	8,9	37
H-01-09-0216	RES 2001 / 031	fish (salmon)	4,2	17
H-01-09-0217	RES 2001 / 032	fish (salmon)	9,1	38
H-01-09-0218	RES 2001 / 036	fish (salmon)	4,2	16
H-01-09-0219	RES 2001 / 039	fish (salmon)	7,7	34
H-01-09-0220	RES 2001 / 040	fish (salmon)	8,1	38
H-01-09-0221	RES 2001 / 044	fish (salmon)	5,6	27
H-01-09-0222	RES 2001 / 045	fish (salmon)	5,4	27
H-01-09-0223	RES 2001 / 051	fish (salmon)	3,9	21

Laboratory code	Client code	Matrix	TEQ (WHO) PCDDs/PCDFs in ng/kg, lipid based	
			PCDDs/PCDFs	PCDDs/PCDFs and WHO-PCBs
H-01-09-0224	RES 2001 / 001	fish (salmon)	2,8	13
H-01-09-0225	RES 2001 / 002	fish (salmon)	4,9	23
H-01-09-0226	RES 2001 / 014	fish (salmon)	4,0	20
H-01-09-0227	RES 2001 / 020	fish (salmon)	3,8	15
H-01-09-0228	RES 2001 / 024	fish (salmon)	5,2	27
H-01-09-0229	RES 2001 / 028	fish (salmon)	5,3	28
H-01-09-0884	ENV 2001/353	fish	4,5	22
H-01-09-0885	ENV 2001/354	fish	4,2	19
H-01-09-0886	ENV 2001/355	fish	3,2	16
H-01-09-0887	ENV 2001/356	fish	4,2	19
H-01-09-0888	ENV 2001/357	fish	3,5	17
H-01-09-0889	ENV 2001/358	fish	3,5	18
H-01-09-0890	ENV 2001/359	fish	4,3	21
H-01-09-0891	ENV 2001/360	fish	4,2	20
H-01-09-0892	ENV 2001/361	fish	6,0	24
H-01-09-0893	ENV 2001/362	fish	6,7	28
H-01-09-0894	ENV 2001/363	fish	6,7	29
H-01-09-0895	ENV 2001/364	fish	9,6	42
H-01-09-0896	ENV 2001/365	fish	11	43
H-01-09-0897	ENV 2001/366	fish	8,9	32
H-01-09-0898	ENV 2001/367	fish	8,1	27

6.2 Results original wet weight based

Laboratory code	Client code	Matrix	TEQ (WHO) PCDDs/PCDFs in ng/kg, original wet weight based	
			PCDDs/PCDFs	PCDDs/PCDFs and WHO-PCBs
H-01-09-0200	ENV 2001 / 305	fish (salmon)	0,25	0,77
H-01-09-0201	ENV 2001 / 306	fish (salmon)	0,35	1,1
H-01-09-0202	ENV 2001 / 308	fish (salmon)	0,28	1,1
H-01-09-0203	ENV 2001 / 309	fish (salmon)	0,14	0,76
H-01-09-0204	ENV 2001 / 310	fish (salmon)	0,39	1,1
H-01-09-0205	ENV 2001 / 311	fish (salmon)	0,30	0,88
H-01-09-0206	ENV 2001 / 312	fish (salmon)	0,15	0,68
H-01-09-0207	ENV 2001 / 313	fish (salmon)	0,42	1,33
H-01-09-0208	ENV 2001 / 314	fish (salmon)	0,61	1,8
H-01-09-0209	ENV 2001 / 315	fish (salmon)	0,30	0,91
H-01-09-0210	ENV 2001 / 316	fish (salmon)	0,29	0,84
H-01-09-0211	ENV 2001 / 317	fish (salmon)	0,55	1,6
H-01-09-0212	ENV 2001 / 318	fish (salmon)	0,36	1,0
H-01-09-0213	ENV 2001 / 319	fish (salmon)	0,39	1,4
H-01-09-0214	ENV 2001 / 320	fish (salmon)	0,25	0,8
H-01-09-0215	RES 2001 / 030	fish (salmon)	1,5	6,3
H-01-09-0216	RES 2001 / 031	fish (salmon)	0,67	2,7
H-01-09-0217	RES 2001 / 032	fish (salmon)	1,1	4,6
H-01-09-0218	RES 2001 / 036	fish (salmon)	0,63	2,5
H-01-09-0219	RES 2001 / 039	fish (salmon)	1,1	4,6
H-01-09-0220	RES 2001 / 040	fish (salmon)	0,70	3,3
H-01-09-0221	RES 2001 / 044	fish (salmon)	0,98	4,8
H-01-09-0222	RES 2001 / 045	fish (salmon)	0,83	4,1
H-01-09-0223	RES 2001 / 051	fish (salmon)	0,76	4,1

Laboratory code	Client code	Matrix	TEQ (WHO) PCDDs/PCDFs in ng/kg, original wet weight based	
			PCDDs/PCDFs	PCDDs/PCDFs and WHO-PCBs
H-01-09-0224	RES 2001 / 001	fish (salmon)	0,60	2,8
H-01-09-0225	RES 2001 / 002	fish (salmon)	0,85	4,1
H-01-09-0226	RES 2001 / 014	fish (salmon)	0,95	4,6
H-01-09-0227	RES 2001 / 020	fish (salmon)	0,59	2,3
H-01-09-0228	RES 2001 / 024	fish (salmon)	0,88	4,6
H-01-09-0229	RES 2001 / 028	fish (salmon)	0,89	4,7
H-01-09-0884	ENV 2001/353	fish (trout)	0,21	1,0
H-01-09-0885	ENV 2001/354	fish (trout)	0,22	1,0
H-01-09-0886	ENV 2001/355	fish (trout)	0,27	1,3
H-01-09-0887	ENV 2001/356	fish (trout)	0,17	0,77
H-01-09-0888	ENV 2001/357	fish (trout)	0,22	1,0
H-01-09-0889	ENV 2001/358	fish (trout)	0,21	1,1
H-01-09-0890	ENV 2001/359	fish (trout)	0,30	1,5
H-01-09-0891	ENV 2001/360	fish (trout)	0,24	1,1
H-01-09-0892	ENV 2001/361	fish (trout)	0,35	1,4
H-01-09-0893	ENV 2001/362	fish (trout)	0,46	1,9
H-01-09-0894	ENV 2001/363	fish (trout)	0,29	1,3
H-01-09-0895	ENV 2001/364	fish (trout)	0,33	1,4
H-01-09-0896	ENV 2001/365	fish (trout)	0,43	1,8
H-01-09-0897	ENV 2001/366	fish (trout)	0,55	2,0
H-01-09-0898	ENV 2001/367	fish (trout)	0,52	1,8

7 Final Remarks

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The samples are stored – on dependence of the test parameters – not longer than three months after the date of the report.

Hamburg, 30.11.2001

ERGO Forschungsgesellschaft mbH

Dr. Michael Ball
board member

Claudia Collingro
(official certified food analyst)
project manager

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/305
	Sample No. (ERGO)	H-01-09-0200
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	9,8

Remarks

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,28	1,0	0,28
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			0,58	1,0	0,58
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,61	0,31	< LOQ	0,1	0,031
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,61	0,31	< LOQ	0,1	0,031
			1.2.3.7.8.9-Hexa-CDD	0,61	0,31	< LOQ	0,1	0,031
			1.2.3.4.6.7.8-Hepta-CDD	0,82	0,41	< LOQ	0,01	0,0041
			OCDD	4,2	2,1	< LOQ	0,0001	0,00021
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			5,5	0,1	0,55
	Accredited	**	1.2.3.7.8-Penta-CDF			0,54	0,05	0,027
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			1,9	0,5	0,94
			1.2.3.4.7.8-Hexa-CDF	0,61	0,31	< LOQ	0,1	0,031
			1.2.3.6.7.8-Hexa-CDF	0,61	0,31	< LOQ	0,1	0,031
			1.2.3.7.8.9-Hexa-CDF	0,61	0,31	< LOQ	0,1	0,031
			2.3.4.6.7.8-Hexa-CDF	0,61	0,31	< LOQ	0,1	0,031
			1.2.3.4.6.7.8-Hepta-CDF	0,82	0,41	< LOQ	0,01	0,0041
			1.2.3.4.7.8.9-Hepta-CDF	0,82	0,41	< LOQ	0,01	0,0041
			OCDF	5,3	2,7	< LOQ	0,0001	0,00027
	Total PCDD					0,85		0,95
	Total PCDF					7,9		1,6
	TEQ (WHO) (PCDDs and PCDFs)					8,7		2,6

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland										
	Year	2001										
	Clients Code	REF:ENV 2001/305										
	Sample No. (ERGO)	H-01-09-0200										
	Product											
	Tissue	Fish (Salmon)										
	Expression of results											
	Stage of marketing											
	Type of sampling											
	Sample No.											
	Area											
	Number of subsamples											
	Fat content (%)	9,8										
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	77			84	0,0001	0,0084			
	Detection	HRGC/HRMS	PCB-	81			5,4	0,0001	0,00054			
	Accredited	**	PCB-	126			36	0,1	3,6			
	Uncertainty (%)		PCB-	169			8,9	0,01	0,089			
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	105			2614	0,0001	0,26			
	Accredited	**	PCB-	114			177	0,0005	0,088			
	Uncertainty (%)		PCB-	118			7894	0,0001	0,79			
			PCB-	123			n.a.	0,0001				
			PCB-	156			648	0,0005	0,32			
			PCB-	157			206	0,0005	0,10			
			PCB-	167			460	0,00001	0,0046			
			PCB-	189			59	0,0001	0,0059			
	Total non-ortho PCB						135		3,7			
	Total mono-ortho PCB						12058		1,6			
	Total WHO-PCB						12193		5,3			
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								7,9			
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results					
	Methods	*	PCB-	28			2,8					
	Accredited	**	PCB-	52			7,7					
	Uncertainty (%)		PCB-	101			11					
			PCB-	118			7,9					
			PCB-	138			16					
			PCB-	153			17					
			PCB-	180			5,0					
5			Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			2,2					
	Accredited	**	PCB-	31			2,5					
	Uncertainty (%)		PCB-	33			1,2					
			PCB-	37			0,12					
			PCB-	41			2,5					
			PCB-	44			2,9					
			PCB-	47			1,7					
			PCB-	49			2,4					
			PCB-	51			0,16					
			PCB-	60			1,0					
			PCB-	66			4,0					
			PCB-	74			3,4					
			PCB-	87			3,7					
			PCB-	99			5,4					
			PCB-	110			5,5					
			PCB-	141			1,6					
			PCB-	151			3,2					
			PCB-	183			1,1					
			PCB-	185			0,14					
			PCB-	187			3,0					
			PCB-	191			0,032					
			PCB-	193			0,34					
			PCB-	194			0,46					
			PCB-	201			1,2					
			PCB-	203			0,74					
			PCB-	206			0,21					
			PCB-	209			0,083					
			Small differences on totals result from computerroundings									
			* = see report, section "Methods"									
			** = Accreditation in progress									
			(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/306
	Sample No. (ERGO)	H-01-09-0201
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	9,4

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,31	1,0	0,31
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,80	1,0	0,80
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,64	0,32	< LOQ	0,1
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,64	0,32	< LOQ	0,1
			1.2.3.7.8.9-Hexa-CDD	0,64	0,32	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDD	0,88	0,44	< LOQ	0,01
			OCDD	4,3	2,1	< LOQ	0,0001
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		11	0,1	1,1
	Accredited	**	1.2.3.7.8-Penta-CDF		1,0	0,05	0,050
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,5	0,5	1,3
			1.2.3.4.7.8-Hexa-CDF	0,64	0,32	< LOQ	0,1
			1.2.3.6.7.8-Hexa-CDF	0,64	0,32	< LOQ	0,1
			1.2.3.7.8.9-Hexa-CDF	0,64	0,32	< LOQ	0,1
			2.3.4.6.7.8-Hexa-CDF	0,64	0,32	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDF	0,85	0,43	< LOQ	0,01
			1.2.3.4.7.8.9-Hepta-CDF	0,85	0,43	< LOQ	0,01
			OCDF	5,4	2,7	< LOQ	0,0001
	Total PCDD				1,1		1,2
	Total PCDF				14		2,5
	TEQ (WHO) (PCDDs and PCDFs)				15		3,8

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/306								
	Sample No. (ERGO)	H-01-09-0201								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	9,4								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			135	0,0001	0,013	
	Detection	HRGC/HRMS	PCB-	81			9,0	0,0001	0,00090	
	Accredited	**	PCB-	126			55	0,1	5,5	
	Uncertainty (%)		PCB-	169			14	0,01	0,14	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			3132	0,0001	0,31	
	Accredited	**	PCB-	114			258	0,0005	0,13	
	Uncertainty (%)		PCB-	118			11189	0,0001	1,1	
			PCB-	123			n.a.	0,0001		
			PCB-	156			967	0,0005	0,48	
			PCB-	157			304	0,0005	0,15	
			PCB-	167			738	0,00001	0,0074	
			PCB-	189			74	0,0001	0,0074	
			Total non-ortho PCB					213		5,7
	Total mono-ortho PCB					16662		2,2		
	Total WHO-PCB					16875		7,9		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								12	
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			3,0			
	Accredited	**	PCB-	52			8,2			
	Uncertainty (%)		PCB-	101			15			
			PCB-	118			11			
			PCB-	138			24			
			PCB-	153			25			
			PCB-	180			7,4			
5			Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
	Methods	*	PCB-	18			2,1			
	Accredited	**	PCB-	31			2,2			
	Uncertainty (%)		PCB-	33			0,91			
			PCB-	37	0,11	0,053	< LOQ			
			PCB-	41			2,8			
			PCB-	44			3,1			
			PCB-	47			1,9			
			PCB-	49			2,6			
			PCB-	51			0,15			
			PCB-	60			1,5			
			PCB-	66			5,4			
			PCB-	74			4,7			
			PCB-	87			4,9			
			PCB-	99			8,4			
			PCB-	110			8,6			
			PCB-	141			2,0			
			PCB-	151			4,4			
			PCB-	183			1,7			
			PCB-	185			0,17			
			PCB-	187			4,7			
			PCB-	191			0,062			
			PCB-	193			0,58			
			PCB-	194			0,65			
			PCB-	201			1,5			
			PCB-	203			1,1			
			PCB-	206			0,24			
			PCB-	209			0,070			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/308
	Sample No. (ERGO)	H-01-09-0202
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	16

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,19	1,0	0,19
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,32	1,0	0,32
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,38	0,19	< LOQ	0,19
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,38	0,19	< LOQ	0,19
			1.2.3.7.8.9-Hexa-CDD	0,38	0,19	< LOQ	0,19
			1.2.3.4.6.7.8-Hepta-CDD	0,50	0,25	< LOQ	0,0025
			OCDD	2,8	1,4	< LOQ	0,00014
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		6,2	0,1	0,62
	Accredited	**	1.2.3.7.8-Penta-CDF		0,42	0,05	0,021
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		0,94	0,5	0,47
			1.2.3.4.7.8-Hexa-CDF	0,38	0,19	< LOQ	0,19
			1.2.3.6.7.8-Hexa-CDF	0,38	0,19	< LOQ	0,19
			1.2.3.7.8.9-Hexa-CDF	0,38	0,19	< LOQ	0,19
			2.3.4.6.7.8-Hexa-CDF	0,38	0,19	< LOQ	0,19
			1.2.3.4.6.7.8-Hepta-CDF	0,53	0,26	< LOQ	0,0026
			1.2.3.4.7.8.9-Hepta-CDF	0,50	0,25	< LOQ	0,0025
			OCDF	3,6	1,8	< LOQ	0,00018
	Total PCDD				0,50		0,56
	Total PCDF				7,6		1,2
	TEQ (WHO) (PCDDs and PCDFs)				8,1		1,8

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/308								
	Sample No. (ERGO)	H-01-09-0202								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	16								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			61	0,0001	0,0061	
	Detection	HRGC/HRMS	PCB-	81			4,2	0,0001	0,00042	
	Accredited	**	PCB-	126			38	0,1	3,8	
	Uncertainty (%)		PCB-	169			8,5	0,01	0,085	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			2558	0,0001	0,26	
	Accredited	**	PCB-	114			170	0,0005	0,085	
	Uncertainty (%)		PCB-	118			6964	0,0001	0,70	
			PCB-	123			n.a.	0,0001		
			PCB-	156			710	0,0005	0,35	
			PCB-	157			206	0,0005	0,10	
			PCB-	167			515	0,00001	0,0052	
			PCB-	189			45	0,0001	0,0045	
			Total non-ortho PCB						112	
	Total mono-ortho PCB						11168		1,5	
	Total WHO-PCB						11280		5,4	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								7,2	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			1,9		
Accredited		**	PCB-	52			5,3			
Uncertainty (%)			PCB-	101			8,9			
			PCB-	118			7,0			
			PCB-	138			16			
			PCB-	153			17			
			PCB-	180			4,5			
	5		Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
Methods		*	PCB-	18			1,8			
Accredited		**	PCB-	31			1,5			
Uncertainty (%)			PCB-	33			0,80			
			PCB-	37	0,070	0,035	< LOQ			
			PCB-	41			1,8			
			PCB-	44			2,0			
			PCB-	47			1,3			
			PCB-	49			1,6			
			PCB-	51			0,12			
			PCB-	60			0,71			
			PCB-	66			2,8			
			PCB-	74			2,5			
			PCB-	87			3,1			
			PCB-	99			5,0			
			PCB-	110			4,5			
			PCB-	141			1,4			
			PCB-	151			2,8			
			PCB-	183			0,91			
			PCB-	185			0,098			
			PCB-	187			2,4			
			PCB-	191			0,031			
			PCB-	193			0,36			
			PCB-	194			0,37			
			PCB-	201			0,71			
			PCB-	203			0,60			
			PCB-	206			0,12			
			PCB-	209			0,072			
Small differences on totals result from computerroundings										
* = see report, section "Methods"										
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)										

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/309
	Sample No. (ERGO)	H-01-09-0203
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	11,3

Remarks

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD	0,35	0,18	< LOQ	1,0	0,18
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			0,32	1,0	0,32
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,53	0,27	< LOQ	0,1	0,027
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,53	0,27	< LOQ	0,1	0,027
			1.2.3.7.8.9-Hexa-CDD	0,53	0,27	< LOQ	0,1	0,027
			1.2.3.4.6.7.8-Hepta-CDD	1,1	0,54	< LOQ	0,01	0,0054
			OCDD	3,8	1,9	< LOQ	0,0001	0,00019
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			2,4	0,1	0,24
	Accredited	**	1.2.3.7.8-Penta-CDF	0,53	0,27	< LOQ	0,05	0,013
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			0,66	0,5	0,33
			1.2.3.4.7.8-Hexa-CDF	0,53	0,27	< LOQ	0,1	0,027
			1.2.3.6.7.8-Hexa-CDF	0,53	0,27	< LOQ	0,1	0,027
			1.2.3.7.8.9-Hexa-CDF	0,53	0,27	< LOQ	0,1	0,027
			2.3.4.6.7.8-Hexa-CDF	0,53	0,27	< LOQ	0,1	0,027
			1.2.3.4.6.7.8-Hepta-CDF	1,2	0,60	< LOQ	0,01	0,0060
			1.2.3.4.7.8.9-Hepta-CDF	0,71	0,35	< LOQ	0,01	0,0035
			OCDF	4,9	2,4	< LOQ	0,0001	0,00024
	Total PCDD					0,32		0,58
	Total PCDF					3,0		0,70
	TEQ (WHO) (PCDDs and PCDFs)					3,4		1,3

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland										
	Year	2001										
	Clients Code	REF:ENV 2001/309										
	Sample No. (ERGO)	H-01-09-0203										
	Product											
	Tissue	Fish (Salmon)										
	Expression of results											
	Stage of marketing											
	Type of sampling											
	Sample No.											
	Area											
	Number of subsamples											
	Fat content (%)	11,3										
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	77			40	0,0001	0,0040			
	Detection	HRGC/HRMS	PCB-	81			3,6	0,0001	0,00036			
	Accredited	**	PCB-	126			38	0,1	3,8			
	Uncertainty (%)		PCB-	169			9,2	0,01	0,092			
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	105			2742	0,0001	0,27			
	Accredited	**	PCB-	114			204	0,0005	0,10			
	Uncertainty (%)		PCB-	118			7615	0,0001	0,76			
			PCB-	123			n.a.	0,0001				
			PCB-	156			775	0,0005	0,39			
			PCB-	157			218	0,0005	0,11			
			PCB-	167			588	0,00001	0,0059			
			PCB-	189			63	0,0001	0,0063			
	Total non-ortho PCB						91		3,9			
	Total mono-ortho PCB						12205		1,6			
	Total WHO-PCB						12295		5,5			
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								6,8			
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results				
		Methods	*	PCB-	28			1,6				
		Accredited	**	PCB-	52			3,0				
		Uncertainty (%)		PCB-	101			8,9				
		PCB-	118			7,6						
		PCB-	138			18						
		PCB-	153			20						
		PCB-	180			6,0						
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results					
	Methods	*	PCB-	18			1,7					
	Accredited	**	PCB-	31			1,3					
	Uncertainty (%)		PCB-	33			0,73					
			PCB-	37	0,096	0,048	< LOQ					
			PCB-	41			1,2					
			PCB-	44			1,1					
			PCB-	47			0,93					
			PCB-	49			1,1					
			PCB-	51			0,091					
			PCB-	60			0,67					
			PCB-	66			2,8					
			PCB-	74			2,4					
			PCB-	87			2,7					
			PCB-	99			5,1					
			PCB-	110			5,2					
			PCB-	141			1,6					
			PCB-	151			3,0					
			PCB-	183			1,2					
			PCB-	185			0,13					
			PCB-	187			3,1					
			PCB-	191			0,049					
			PCB-	193			0,51					
			PCB-	194			0,52					
			PCB-	201			1,2					
			PCB-	203			0,89					
			PCB-	206			0,18					
			PCB-	209			0,083					
			Small differences on totals result from computerroundings									
			* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)											

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/310
	Sample No. (ERGO)	H-01-09-0204
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	13,7

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,28	1,0	0,28
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,63	1,0	0,63
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,44	0,22	< LOQ	0,1
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,44	0,22	< LOQ	0,1
			1.2.3.7.8.9-Hexa-CDD	0,44	0,22	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDD		0,69	0,01	0,0069
			OCDD		2,6	0,0001	0,00026
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		8,1	0,1	0,81
	Accredited	**	1.2.3.7.8-Penta-CDF		0,76	0,05	0,038
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,9	0,5	0,94
			1.2.3.4.7.8-Hexa-CDF	0,44	0,22	< LOQ	0,1
			1.2.3.6.7.8-Hexa-CDF	0,44	0,22	< LOQ	0,1
			1.2.3.7.8.9-Hexa-CDF	0,44	0,22	< LOQ	0,1
			2.3.4.6.7.8-Hexa-CDF	0,44	0,22	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDF		0,66	0,01	0,0066
			1.2.3.4.7.8.9-Hepta-CDF		0,31	0,01	0,0031
			OCDF		2,1	0,0001	0,00021
	Total PCDD				4,2		0,98
	Total PCDF				14		1,9
	TEQ (WHO) (PCDDs and PCDFs)				18		2,9

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/310								
	Sample No. (ERGO)	H-01-09-0204								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	13,7								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			90	0,0001	0,0090	
	Detection	HRGC/HRMS	PCB-	81			8,1	0,0001	0,00081	
	Accredited	**	PCB-	126			33	0,1	3,3	
	Uncertainty (%)		PCB-	169			4,1	0,01	0,041	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			2840	0,0001	0,28	
	Accredited	**	PCB-	114			192	0,0005	0,096	
	Uncertainty (%)		PCB-	118			8340	0,0001	0,83	
			PCB-	123			n.a.	0,0001		
			PCB-	156			637	0,0005	0,32	
			PCB-	157			197	0,0005	0,098	
			PCB-	167			435	0,00001	0,0044	
			PCB-	189			41	0,0001	0,0041	
	Total non-ortho PCB						135		3,3	
	Total mono-ortho PCB						12681		1,6	
	Total WHO-PCB						12816		5,0	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								7,8	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			2,2		
Accredited		**	PCB-	52			5,4			
Uncertainty (%)			PCB-	101			11			
		PCB-	118			8,3				
		PCB-	138			16				
		PCB-	153			17				
		PCB-	180			4,4				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			2,0			
	Accredited	**	PCB-	31			1,9			
	Uncertainty (%)		PCB-	33			0,78			
			PCB-	37	0,080	0,040	< LOQ			
			PCB-	41			2,5			
			PCB-	44			2,7			
			PCB-	47			1,5			
			PCB-	49			2,2			
			PCB-	51			0,12			
			PCB-	60			1,2			
			PCB-	66			4,3			
			PCB-	74			3,5			
			PCB-	87			4,3			
			PCB-	99			5,9			
			PCB-	110			7,6			
			PCB-	141			1,6			
			PCB-	151			3,4			
			PCB-	183			1,0			
			PCB-	185			0,13			
			PCB-	187			3,0			
			PCB-	191			0,043			
			PCB-	193			0,33			
			PCB-	194			0,35			
			PCB-	201			0,85			
			PCB-	203			0,60			
			PCB-	206			0,15			
			PCB-	209			0,058			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/311
	Sample No. (ERGO)	H-01-09-0205
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	11,7

Remarks

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,23	1,0	0,23
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			0,54	1,0	0,54
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,51	0,26	< LOQ	0,1	0,026
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,51	0,26	< LOQ	0,1	0,026
			1.2.3.7.8.9-Hexa-CDD	0,51	0,26	< LOQ	0,1	0,026
			1.2.3.4.6.7.8-Hepta-CDD	0,61	0,31	< LOQ	0,01	0,0031
			OCDD	3,4	1,7	< LOQ	0,0001	0,00017
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			5,5	0,1	0,55
	Accredited	**	1.2.3.7.8-Penta-CDF			0,59	0,05	0,030
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			2,1	0,5	1,0
			1.2.3.4.7.8-Hexa-CDF	0,51	0,26	< LOQ	0,1	0,026
			1.2.3.6.7.8-Hexa-CDF	0,51	0,26	< LOQ	0,1	0,026
			1.2.3.7.8.9-Hexa-CDF	0,51	0,26	< LOQ	0,1	0,026
			2.3.4.6.7.8-Hexa-CDF	0,51	0,26	< LOQ	0,1	0,026
			1.2.3.4.6.7.8-Hepta-CDF	0,64	0,32	< LOQ	0,01	0,0032
			1.2.3.4.7.8.9-Hepta-CDF	0,68	0,34	< LOQ	0,01	0,0034
			OCDF	4,4	2,2	< LOQ	0,0001	0,00022
	Total PCDD					0,78		0,86
	Total PCDF					8,2		1,7
	TEQ (WHO) (PCDDs and PCDFs)					8,9		2,6

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/311								
	Sample No. (ERGO)	H-01-09-0205								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	11,7								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			66	0,0001	0,0066	
	Detection	HRGC/HRMS	PCB-	81			4,8	0,0001	0,00048	
	Accredited	**	PCB-	126			33	0,1	3,3	
	Uncertainty (%)		PCB-	169			10	0,01	0,10	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			2670	0,0001	0,27	
	Accredited	**	PCB-	114			161	0,0005	0,080	
	Uncertainty (%)		PCB-	118			7875	0,0001	0,79	
			PCB-	123			n.a.	0,0001		
			PCB-	156			613	0,0005	0,31	
			PCB-	157			194	0,0005	0,097	
			PCB-	167			530	0,00001	0,0053	
			PCB-	189			39	0,0001	0,0039	
	Total non-ortho PCB						114		3,4	
	Total mono-ortho PCB						12082		1,5	
	Total WHO-PCB						12195		4,9	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								7,5	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			1,5		
		Accredited	**	PCB-	52			5,2		
Uncertainty (%)			PCB-	101			10			
			PCB-	118			7,9			
			PCB-	138			15			
			PCB-	153			17			
			PCB-	180			4,6			
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,5			
	Accredited	**	PCB-	31			1,4			
	Uncertainty (%)		PCB-	33			0,59			
			PCB-	37	0,086	0,043	< LOQ			
			PCB-	41			2,1			
			PCB-	44			2,1			
			PCB-	47			1,3			
			PCB-	49			1,8			
			PCB-	51			0,12			
			PCB-	60			0,97			
			PCB-	66			3,6			
			PCB-	74			3,0			
			PCB-	87			3,5			
			PCB-	99			5,3			
			PCB-	110			7,7			
			PCB-	141			1,5			
			PCB-	151			3,4			
			PCB-	183			1,0			
			PCB-	185			0,13			
			PCB-	187			2,9			
			PCB-	191			0,042			
			PCB-	193			0,38			
			PCB-	194			0,41			
			PCB-	201			1,0			
			PCB-	203			0,66			
			PCB-	206			0,19			
			PCB-	209			0,082			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/312
	Sample No. (ERGO)	H-01-09-0206
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	8,1

Remarks

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD	0,49	0,25	< LOQ	1,0	0,25
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD	0,74	0,37	< LOQ	1,0	0,37
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,74	0,37	< LOQ	0,1	0,037
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,74	0,37	< LOQ	0,1	0,037
			1.2.3.7.8.9-Hexa-CDD	0,74	0,37	< LOQ	0,1	0,037
			1.2.3.4.6.7.8-Hepta-CDD	1,00	0,50	< LOQ	0,01	0,0050
			OCDD	5,6	2,8	< LOQ	0,0001	0,00028
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			6,2	0,1	0,62
	Accredited	**	1.2.3.7.8-Penta-CDF			0,39	0,05	0,020
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			0,72	0,5	0,36
			1.2.3.4.7.8-Hexa-CDF	0,74	0,37	< LOQ	0,1	0,037
			1.2.3.6.7.8-Hexa-CDF	0,74	0,37	< LOQ	0,1	0,037
			1.2.3.7.8.9-Hexa-CDF	0,74	0,37	< LOQ	0,1	0,037
			2.3.4.6.7.8-Hexa-CDF	0,74	0,37	< LOQ	0,1	0,037
			1.2.3.4.6.7.8-Hepta-CDF	1,0	0,52	< LOQ	0,01	0,0052
			1.2.3.4.7.8.9-Hepta-CDF	0,99	0,49	< LOQ	0,01	0,0049
			OCDF	7,1	3,6	< LOQ	0,0001	0,00036
	Total PCDD					< LOQ		0,73
	Total PCDF					7,3		1,2
	TEQ (WHO) (PCDDs and PCDFs)					7,3		1,9

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/312								
	Sample No. (ERGO)	H-01-09-0206								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	8,1								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			56	0,0001	0,0056	
	Detection	HRGC/HRMS	PCB-	81			4,3	0,0001	0,00043	
	Accredited	**	PCB-	126			45	0,1	4,5	
	Uncertainty (%)		PCB-	169			12	0,01	0,12	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			3048	0,0001	0,30	
	Accredited	**	PCB-	114			211	0,0005	0,11	
	Uncertainty (%)		PCB-	118			9144	0,0001	0,91	
			PCB-	123			n.a.	0,0001		
			PCB-	156			829	0,0005	0,41	
			PCB-	157			245	0,0005	0,12	
			PCB-	167			759	0,00001	0,0076	
			PCB-	189			77	0,0001	0,0077	
			Total non-ortho PCB					118		4,6
	Total mono-ortho PCB					14312		1,9		
	Total WHO-PCB					14430		6,5		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								8,4	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			1,5		
Accredited		**	PCB-	52			7,8			
Uncertainty (%)			PCB-	101			12			
			PCB-	118			9,1			
			PCB-	138			21			
			PCB-	153			23			
			PCB-	180			6,5			
	5		Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
Methods		*	PCB-	18			1,7			
Accredited		**	PCB-	31			1,4			
Uncertainty (%)			PCB-	33			0,63			
			PCB-	37	0,14	0,070	< LOQ			
			PCB-	41			2,4			
			PCB-	44			2,9			
			PCB-	47			1,6			
			PCB-	49			2,4			
			PCB-	51			0,15			
			PCB-	60			0,78			
			PCB-	66			3,6			
			PCB-	74			3,4			
			PCB-	87			4,1			
			PCB-	99			6,7			
			PCB-	110			6,2			
			PCB-	141			1,9			
			PCB-	151			3,6			
			PCB-	183			1,4			
			PCB-	185			0,16			
			PCB-	187			3,7			
			PCB-	191			0,063			
			PCB-	193			0,49			
			PCB-	194			0,53			
			PCB-	201			1,1			
			PCB-	203			0,91			
			PCB-	206			0,19			
			PCB-	209			0,11			
Small differences on totals result from computerroundings										
* = see report, section "Methods"										
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)										

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/313
	Sample No. (ERGO)	H-01-09-0207
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	13

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,34	1,0	0,34
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,60	1,0	0,60
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,46	0,23	< LOQ	0,023
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,23	0,1	0,023
			1.2.3.7.8.9-Hexa-CDD	0,46	0,23	< LOQ	0,023
			1.2.3.4.6.7.8-Hepta-CDD	0,59	0,29	< LOQ	0,0029
			OCDD	3,3	1,6	< LOQ	0,0001
							0,00016
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		11	0,1	1,1
	Accredited	**	1.2.3.7.8-Penta-CDF		0,90	0,05	0,045
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,9	0,5	0,94
			1.2.3.4.7.8-Hexa-CDF	0,46	0,23	< LOQ	0,023
			1.2.3.6.7.8-Hexa-CDF	0,46	0,23	< LOQ	0,023
			1.2.3.7.8.9-Hexa-CDF	0,46	0,23	< LOQ	0,023
			2.3.4.6.7.8-Hexa-CDF	0,46	0,23	< LOQ	0,023
			1.2.3.4.6.7.8-Hepta-CDF	0,61	0,30	< LOQ	0,0030
			1.2.3.4.7.8.9-Hepta-CDF	0,62	0,31	< LOQ	0,0031
			OCDF	4,2	2,1	< LOQ	0,0001
							0,00021
	Total PCDD				1,2		1,0
	Total PCDF				14		2,2
	TEQ (WHO) (PCDDs and PCDFs)				15		3,2

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/313								
	Sample No. (ERGO)	H-01-09-0207								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	13								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			122	0,0001	0,012	
	Detection	HRGC/HRMS	PCB-	81			7,4	0,0001	0,00074	
	Accredited	**	PCB-	126			53	0,1	5,3	
	Uncertainty (%)		PCB-	169			10	0,01	0,10	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			2808	0,0001	0,28	
	Accredited	**	PCB-	114			191	0,0005	0,096	
	Uncertainty (%)		PCB-	118			7921	0,0001	0,79	
			PCB-	123			n.a.	0,0001		
			PCB-	156			721	0,0005	0,36	
			PCB-	157			203	0,0005	0,10	
			PCB-	167			565	0,00001	0,0057	
			PCB-	189			58	0,0001	0,0058	
	Total non-ortho PCB						192		5,4	
	Total mono-ortho PCB						12467		1,6	
	Total WHO-PCB						12658		7,0	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								10,2	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			2,2		
Accredited		**	PCB-	52			6,6			
Uncertainty (%)			PCB-	101			9,6			
		PCB-	118			7,9				
		PCB-	138			16				
		PCB-	153			17				
		PCB-	180			4,4				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,5			
	Accredited	**	PCB-	31			1,6			
	Uncertainty (%)		PCB-	33			0,74			
			PCB-	37	0,082	0,041	< LOQ			
			PCB-	41			2,3			
			PCB-	44			2,7			
			PCB-	47			1,3			
			PCB-	49			1,9			
			PCB-	51			0,096			
			PCB-	60			0,94			
			PCB-	66			3,9			
			PCB-	74			3,4			
			PCB-	87			3,6			
			PCB-	99			5,8			
			PCB-	110			6,8			
			PCB-	141			1,4			
			PCB-	151			3,0			
			PCB-	183			0,91			
			PCB-	185			0,094			
			PCB-	187			2,3			
			PCB-	191			0,044			
			PCB-	193			0,34			
			PCB-	194			0,36			
			PCB-	201			0,61			
			PCB-	203			0,54			
			PCB-	206			0,11			
			PCB-	209			0,066			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/314
	Sample No. (ERGO)	H-01-09-0208
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	12,7

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,50	1,0	0,50
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,0	1,0	1,0
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,47	0,24	< LOQ	0,024
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,35	0,1	0,035
			1.2.3.7.8.9-Hexa-CDD	0,47	0,24	< LOQ	0,024
			1.2.3.4.6.7.8-Hepta-CDD	0,59	0,30	< LOQ	0,0030
			OCDD	3,3	1,7	< LOQ	0,00017
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		13	0,1	1,3
	Accredited	**	1.2.3.7.8-Penta-CDF		1,2	0,05	0,062
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		3,5	0,5	1,7
			1.2.3.4.7.8-Hexa-CDF	0,47	0,24	< LOQ	0,024
			1.2.3.6.7.8-Hexa-CDF	0,47	0,24	< LOQ	0,024
			1.2.3.7.8.9-Hexa-CDF	0,47	0,24	< LOQ	0,024
			2.3.4.6.7.8-Hexa-CDF	0,51	0,26	< LOQ	0,026
			1.2.3.4.6.7.8-Hepta-CDF	0,61	0,31	< LOQ	0,0031
			1.2.3.4.7.8.9-Hepta-CDF	0,63	0,31	< LOQ	0,0031
			OCDF	4,2	2,1	< LOQ	0,00021
	Total PCDD				1,9		1,6
	Total PCDF				18		3,2
	TEQ (WHO) (PCDDs and PCDFs)				20		4,8

Small differences on totals result from computerroundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/314								
	Sample No. (ERGO)	H-01-09-0208								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	12,7								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			147	0,0001	0,015	
	Detection	HRGC/HRMS	PCB-	81			9,9	0,0001	0,00099	
	Accredited	**	PCB-	126			69	0,1	6,9	
	Uncertainty (%)		PCB-	169			18	0,01	0,18	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			4265	0,0001	0,43	
	Accredited	**	PCB-	114			295	0,0005	0,15	
	Uncertainty (%)		PCB-	118			12279	0,0001	1,2	
			PCB-	123			n.a.	0,0001		
			PCB-	156			1101	0,0005	0,55	
			PCB-	157			324	0,0005	0,16	
			PCB-	167			760	0,00001	0,0076	
			PCB-	189			84	0,0001	0,0084	
			Total non-ortho PCB						244	
	Total mono-ortho PCB						19110		2,5	
	Total WHO-PCB						19354		9,7	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								14,4	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			3,1		
		Accredited	**	PCB-	52			7,7		
		Uncertainty (%)		PCB-	101			15		
			PCB-	118			12			
			PCB-	138			25			
			PCB-	153			27			
			PCB-	180			7,7			
	5		Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
Methods		*	PCB-	18			2,3			
Accredited		**	PCB-	31			2,6			
Uncertainty (%)			PCB-	33			1,3			
			PCB-	37			0,15			
			PCB-	41			3,4			
			PCB-	44			3,3			
			PCB-	47			2,0			
			PCB-	49			2,6			
			PCB-	51			0,24			
			PCB-	60			1,6			
			PCB-	66			5,8			
			PCB-	74			4,9			
			PCB-	87			5,1			
			PCB-	99			8,2			
			PCB-	110			11			
			PCB-	141			2,3			
			PCB-	151			4,7			
			PCB-	183			1,6			
			PCB-	185			0,17			
			PCB-	187			4,3			
			PCB-	191			0,073			
			PCB-	193			0,57			
			PCB-	194			0,58			
			PCB-	201			1,5			
			PCB-	203			1,1			
			PCB-	206			0,24			
			PCB-	209			0,11			
Small differences on totals result from computerroundings										
* = see report, section "Methods"										
** = Accreditation in progress										
(DACH 175/ERGO/20.06.00/00)										

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/315
	Sample No. (ERGO)	H-01-09-0209
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	13,9

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,19	1,0	0,19
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,48	1,0	0,48
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,43	0,22	< LOQ	0,022
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,43	0,22	< LOQ	0,022
			1.2.3.7.8.9-Hexa-CDD	0,43	0,22	< LOQ	0,022
			1.2.3.4.6.7.8-Hepta-CDD	0,60	0,30	< LOQ	0,0030
			OCDD	3,4	1,7	< LOQ	0,00017
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		4,9	0,1	0,49
	Accredited	**	1.2.3.7.8-Penta-CDF		0,52	0,05	0,026
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,6	0,5	0,81
			1.2.3.4.7.8-Hexa-CDF	0,43	0,22	< LOQ	0,022
			1.2.3.6.7.8-Hexa-CDF	0,43	0,22	< LOQ	0,022
			1.2.3.7.8.9-Hexa-CDF	0,43	0,22	< LOQ	0,022
			2.3.4.6.7.8-Hexa-CDF	0,43	0,22	< LOQ	0,022
			1.2.3.4.6.7.8-Hepta-CDF	0,62	0,31	< LOQ	0,0031
			1.2.3.4.7.8.9-Hepta-CDF	0,58	0,29	< LOQ	0,0029
			OCDF	4,3	2,1	< LOQ	0,00021
	Total PCDD				0,67		0,73
	Total PCDF				7,1		1,4
	TEQ (WHO) (PCDDs and PCDFs)				7,7		2,2

Small differences on totals result from computerroundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/315								
	Sample No. (ERGO)	H-01-09-0209								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	13,9								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			64	0,0001	0,0064	
	Detection	HRGC/HRMS	PCB-	81			4,7	0,0001	0,00047	
	Accredited	**	PCB-	126			30	0,1	3,0	
	Uncertainty (%)		PCB-	169			7,6	0,01	0,076	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			2158	0,0001	0,22	
	Accredited	**	PCB-	114			147	0,0005	0,074	
	Uncertainty (%)		PCB-	118			6246	0,0001	0,62	
			PCB-	123			n.a.	0,0001		
			PCB-	156			575	0,0005	0,29	
			PCB-	157			167	0,0005	0,083	
			PCB-	167			417	0,00001	0,0042	
			PCB-	189			46	0,0001	0,0046	
	Total non-ortho PCB						107		3,1	
	Total mono-ortho PCB						9757		1,3	
	Total WHO-PCB						9864		4,4	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								6,6	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			1,3		
Accredited		**	PCB-	52			4,0			
Uncertainty (%)			PCB-	101			8,0			
		PCB-	118			6,2				
		PCB-	138			13				
		PCB-	153			14				
		PCB-	180			3,9				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,1			
	Accredited	**	PCB-	31			1,0			
	Uncertainty (%)		PCB-	33			0,39			
			PCB-	37	0,084	0,042	< LOQ			
			PCB-	41			1,5			
			PCB-	44			1,5			
			PCB-	47			0,89			
			PCB-	49			1,3			
			PCB-	51			0,064			
			PCB-	60			0,67			
			PCB-	66			2,8			
			PCB-	74			2,3			
			PCB-	87			2,7			
			PCB-	99			4,2			
			PCB-	110			5,4			
			PCB-	141			1,3			
			PCB-	151			2,6			
			PCB-	183			0,83			
			PCB-	185			0,095			
			PCB-	187			2,3			
			PCB-	191			0,036			
			PCB-	193			0,32			
			PCB-	194			0,28			
			PCB-	201			0,67			
			PCB-	203			0,47			
			PCB-	206			0,094			
			PCB-	209			0,044			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF:ENV 2001/316
	Sample No. (ERGO)	H-01-09-0210
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	14,9

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,19	1,0	0,19
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,42	1,0	0,42
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,40	0,20	< LOQ	0,020
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,40	0,20	< LOQ	0,020
			1.2.3.7.8.9-Hexa-CDD	0,40	0,20	< LOQ	0,020
			1.2.3.4.6.7.8-Hepta-CDD	0,51	0,25	< LOQ	0,0025
			OCDD	2,8	1,4	< LOQ	0,00014
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		4,3	0,1	0,43
	Accredited	**	1.2.3.7.8-Penta-CDF		0,48	0,05	0,024
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,5	0,5	0,73
			1.2.3.4.7.8-Hexa-CDF	0,40	0,20	< LOQ	0,020
			1.2.3.6.7.8-Hexa-CDF	0,40	0,20	< LOQ	0,020
			1.2.3.7.8.9-Hexa-CDF	0,40	0,20	< LOQ	0,020
			2.3.4.6.7.8-Hexa-CDF	0,40	0,20	< LOQ	0,020
			1.2.3.4.6.7.8-Hepta-CDF	0,53	0,26	< LOQ	0,0026
			1.2.3.4.7.8.9-Hepta-CDF	0,54	0,27	< LOQ	0,0027
			OCDF	3,6	1,8	< LOQ	0,00018
	Total PCDD				0,61		0,67
	Total PCDF				6,3		1,3
	TEQ (WHO) (PCDDs and PCDFs)				6,9		1,9

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF:ENV 2001/316								
	Sample No. (ERGO)	H-01-09-0210								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	14,9								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			55	0,0001	0,0055	
	Detection	HRGC/HRMS	PCB-	81			3,8	0,0001	0,00038	
	Accredited	**	PCB-	126			26	0,1	2,6	
	Uncertainty (%)		PCB-	169			6,8	0,01	0,068	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			1885	0,0001	0,19	
	Accredited	**	PCB-	114			126	0,0005	0,063	
	Uncertainty (%)		PCB-	118			5237	0,0001	0,52	
			PCB-	123			n.a.	0,0001		
			PCB-	156			434	0,0005	0,22	
			PCB-	157			138	0,0005	0,069	
			PCB-	167			389	0,00001	0,0039	
			PCB-	189			33	0,0001	0,0033	
								91		2,7
	Total non-ortho PCB						8244		1,1	
	Total mono-ortho PCB						8335		3,7	
	Total WHO-PCB								5,7	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)									
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			1,2			
	Accredited	**	PCB-	52			5,0			
	Uncertainty (%)		PCB-	101			7,3			
			PCB-	118			5,2			
			PCB-	138			11			
			PCB-	153			11			
			PCB-	180			3,2			
	5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results		
Methods		*	PCB-	18			1,0			
Accredited		**	PCB-	31			1,2			
Uncertainty (%)			PCB-	33			0,39			
		PCB-	37	0,071	0,035	< LOQ				
		PCB-	41			1,6				
		PCB-	44			1,8				
		PCB-	47			0,85				
		PCB-	49			1,4				
		PCB-	51			0,060				
		PCB-	60			0,56				
		PCB-	66			2,7				
		PCB-	74			2,3				
		PCB-	87			2,6				
		PCB-	99			3,8				
		PCB-	110			4,3				
		PCB-	141			1,1				
		PCB-	151			2,3				
		PCB-	183			0,62				
		PCB-	185			0,088				
		PCB-	187			1,7				
		PCB-	191			0,032				
		PCB-	193			0,25				
		PCB-	194			0,26				
		PCB-	201			0,65				
		PCB-	203			0,44				
		PCB-	206			0,12				
		PCB-	209			0,042				
Small differences on totals result from computer roundings										
* = see report, section "Methods"										
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)										

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF: ENV 2001/317
	Sample No. (ERGO)	H-01-09-0211
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	14

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,33	1,0	0,33
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,86	1,0	0,86
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,43	0,21	< LOQ	0,021
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,46	0,23	< LOQ	0,023
			1.2.3.7.8.9-Hexa-CDD	0,43	0,21	< LOQ	0,021
			1.2.3.4.6.7.8-Hepta-CDD	1,2	0,62	< LOQ	0,0062
			OCDD	4,7	2,4	< LOQ	0,00024
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		11	0,1	1,1
	Accredited	**	1.2.3.7.8-Penta-CDF		1,0	0,05	0,052
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,9	0,5	1,4
			1.2.3.4.7.8-Hexa-CDF	0,44	0,22	< LOQ	0,022
			1.2.3.6.7.8-Hexa-CDF	0,43	0,21	< LOQ	0,021
			1.2.3.7.8.9-Hexa-CDF	0,43	0,21	< LOQ	0,021
			2.3.4.6.7.8-Hexa-CDF	0,44	0,22	< LOQ	0,022
			1.2.3.4.6.7.8-Hepta-CDF	1,1	0,56	< LOQ	0,0056
			1.2.3.4.7.8.9-Hepta-CDF	0,61	0,31	< LOQ	0,0031
			OCDF	6,4	3,2	< LOQ	0,00032
	Total PCDD				1,2		1,3
	Total PCDF				15		2,7
	TEQ (WHO) (PCDDs and PCDFs)				16		3,9

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland							
	Year	2001							
	Clients Code	REF: ENV 2001/317							
	Sample No. (ERGO)	H-01-09-0211							
	Product								
	Tissue	Fish (Salmon)							
	Expression of results								
	Stage of marketing								
	Type of sampling								
	Sample No.								
	Area								
	Number of subsamples								
	Fat content (%)	14							
2	non-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB- 77			131	0,0001	0,013	
	Detection	HRGC/HRMS	PCB- 81			7,8	0,0001	0,00078	
	Accredited	**	PCB- 126			49	0,1	4,9	
	Uncertainty (%)		PCB- 169			14	0,01	0,14	
3	mono-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB- 105			3802	0,0001	0,38	
	Accredited	**	PCB- 114			222	0,0005	0,11	
	Uncertainty (%)		PCB- 118			10705	0,0001	1,1	
			PCB- 123			n.a.	0,0001		
			PCB- 156			858	0,0005	0,43	
			PCB- 157			278	0,0005	0,14	
			PCB- 167			591	0,00001	0,0059	
			PCB- 189			68	0,0001	0,0068	
			Total non-ortho PCB				202		5,1
	Total mono-ortho PCB				16525		2,1		
	Total WHO-PCB				16727		7,2		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)					11,1			
	4	PCB-7 (6) (ppb)		PCB congeners	LOQ	LOD	Results		
		Methods	*	PCB- 28			2,8		
		Accredited	**	PCB- 52			6,9		
		Uncertainty (%)		PCB- 101			12		
			PCB- 118			11			
			PCB- 138			18			
			PCB- 153			20			
			PCB- 180			4,9			
	5		Other PCBs (ppb)		PCB congeners	LOQ	LOD	Results	
Methods		*	PCB- 18			2,1			
Accredited		**	PCB- 31			2,2			
Uncertainty (%)			PCB- 33			0,92			
			PCB- 37	0,079	0,039	< LOQ			
			PCB- 41			2,3			
			PCB- 44			2,7			
			PCB- 47			1,5			
			PCB- 49			2,2			
			PCB- 51			0,094			
			PCB- 60			1,1			
			PCB- 66			4,8			
			PCB- 74			4,1			
			PCB- 87			4,8			
			PCB- 99			6,1			
			PCB- 110			6,8			
			PCB- 141			1,7			
			PCB- 151			3,6			
			PCB- 183			1,00			
			PCB- 185			0,12			
			PCB- 187			3,1			
			PCB- 191			0,037			
			PCB- 193			0,35			
			PCB- 194			0,48			
			PCB- 201			1,2			
			PCB- 203			0,74			
			PCB- 206			0,14			
			PCB- 209			0,067			
Small differences on totals result from computerroundings									
* = see report, section "Methods"									
** = Accreditation in progress									
(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF: ENV 2001/318
	Sample No. (ERGO)	H-01-09-0212
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	12

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,23	1,0	0,23
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,71	1,0	0,71
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,50	0,25	< LOQ	0,025
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,50	0,25	< LOQ	0,025
			1.2.3.7.8.9-Hexa-CDD	0,50	0,25	< LOQ	0,025
			1.2.3.4.6.7.8-Hepta-CDD	1,3	0,67	< LOQ	0,0067
			OCDD	5,1	2,5	< LOQ	0,0001
							0,00025
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		6,3	0,1	0,63
	Accredited	**	1.2.3.7.8-Penta-CDF		0,70	0,05	0,035
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,5	0,5	1,2
			1.2.3.4.7.8-Hexa-CDF	0,50	0,25	< LOQ	0,025
			1.2.3.6.7.8-Hexa-CDF	0,50	0,25	< LOQ	0,025
			1.2.3.7.8.9-Hexa-CDF	0,50	0,25	< LOQ	0,025
			2.3.4.6.7.8-Hexa-CDF	0,50	0,25	< LOQ	0,025
			1.2.3.4.6.7.8-Hepta-CDF	1,2	0,61	< LOQ	0,0061
			1.2.3.4.7.8.9-Hepta-CDF	0,76	0,38	< LOQ	0,0038
			OCDF	6,9	3,4	< LOQ	0,0001
							0,00034
	Total PCDD				0,94		1,0
	Total PCDF				9,5		2,0
	TEQ (WHO) (PCDDs and PCDFs)				10		3,0

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF: ENV 2001/318								
	Sample No. (ERGO)	H-01-09-0212								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	12								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			67	0,0001	0,0067	
	Detection	HRGC/HRMS	PCB-	81			4,1	0,0001	0,00041	
	Accredited	**	PCB-	126			38	0,1	3,8	
	Uncertainty (%)		PCB-	169			13	0,01	0,13	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			2999	0,0001	0,30	
	Accredited	**	PCB-	114			182	0,0005	0,091	
	Uncertainty (%)		PCB-	118			8441	0,0001	0,84	
			PCB-	123			n.a.	0,0001		
			PCB-	156			673	0,0005	0,34	
			PCB-	157			222	0,0005	0,11	
			PCB-	167			565	0,00001	0,0056	
			PCB-	189			45	0,0001	0,0045	
	Total non-ortho PCB						122		3,9	
	Total mono-ortho PCB						13126		1,7	
	Total WHO-PCB						13248		5,6	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								8,6	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			1,9		
Accredited		**	PCB-	52			5,6			
Uncertainty (%)			PCB-	101			12			
			PCB-	118			8,4			
			PCB-	138			18			
			PCB-	153			19			
			PCB-	180			5,3			
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,5			
	Accredited	**	PCB-	31			1,3			
	Uncertainty (%)		PCB-	33			0,47			
			PCB-	37	0,085	0,042	< LOQ			
			PCB-	41			2,0			
			PCB-	44			2,1			
			PCB-	47			1,2			
			PCB-	49			1,8			
			PCB-	51			0,079			
			PCB-	60			0,80			
			PCB-	66			3,7			
			PCB-	74			3,2			
			PCB-	87			3,6			
			PCB-	99			5,8			
			PCB-	110			5,9			
			PCB-	141			1,7			
			PCB-	151			3,6			
			PCB-	183			0,93			
			PCB-	185			0,098			
			PCB-	187			2,5			
			PCB-	191			0,048			
			PCB-	193			0,51			
			PCB-	194			0,27			
			PCB-	201			0,96			
			PCB-	203			0,61			
			PCB-	206			0,12			
			PCB-	209			0,050			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF: ENV 2001/319
	Sample No. (ERGO)	H-01-09-0213
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	15,5

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,24	1,0	0,24
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,39	1,0	0,39
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,39	0,19	< LOQ	0,19
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,39	0,19	< LOQ	0,19
			1.2.3.7.8.9-Hexa-CDD	0,39	0,19	< LOQ	0,19
			1.2.3.4.6.7.8-Hepta-CDD	1,1	0,54	< LOQ	0,0054
			OCDD	4,0	2,0	< LOQ	0,0001
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		10	0,1	1,0
	Accredited	**	1.2.3.7.8-Penta-CDF		0,70	0,05	0,035
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,3	0,5	0,66
			1.2.3.4.7.8-Hexa-CDF	0,39	0,20	< LOQ	0,020
			1.2.3.6.7.8-Hexa-CDF	0,39	0,19	< LOQ	0,019
			1.2.3.7.8.9-Hexa-CDF	0,39	0,19	< LOQ	0,019
			2.3.4.6.7.8-Hexa-CDF	0,39	0,19	< LOQ	0,019
			1.2.3.4.6.7.8-Hepta-CDF	0,97	0,49	< LOQ	0,0049
			1.2.3.4.7.8.9-Hepta-CDF	0,52	0,26	< LOQ	0,0026
			OCDF	5,5	2,7	< LOQ	0,0001
	Total PCDD				0,63		0,69
	Total PCDF				12		1,8
	TEQ (WHO) (PCDDs and PCDFs)				13		2,5

Small differences on totals result from computerroundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland								
	Year	2001								
	Clients Code	REF: ENV 2001/319								
	Sample No. (ERGO)	H-01-09-0213								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	15,5								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			109	0,0001	0,011	
	Detection	HRGC/HRMS	PCB-	81			5,1	0,0001	0,00051	
	Accredited	**	PCB-	126			45	0,1	4,5	
	Uncertainty (%)		PCB-	169			9,1	0,01	0,091	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			2922	0,0001	0,29	
	Accredited	**	PCB-	114			191	0,0005	0,095	
	Uncertainty (%)		PCB-	118			8189	0,0001	0,82	
			PCB-	123			n.a.	0,0001		
			PCB-	156			657	0,0005	0,33	
			PCB-	157			194	0,0005	0,097	
			PCB-	167			554	0,00001	0,0055	
			PCB-	189			49	0,0001	0,0049	
	Total non-ortho PCB						168	4,6		
	Total mono-ortho PCB						12755	1,6		
	Total WHO-PCB						12923	6,2		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							8,7		
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			2,1		
Accredited		**	PCB-	52			6,5			
Uncertainty (%)			PCB-	101			11			
		PCB-	118			8,2				
		PCB-	138			16				
		PCB-	153			17				
		PCB-	180			4,3				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,6			
	Accredited	**	PCB-	31			1,9			
	Uncertainty (%)		PCB-	33			0,64			
			PCB-	37			0,042			
			PCB-	41			2,2			
			PCB-	44			2,6			
			PCB-	47			1,3			
			PCB-	49			2,0			
			PCB-	51			0,079			
			PCB-	60			0,96			
			PCB-	66			4,2			
			PCB-	74			3,6			
			PCB-	87			4,0			
			PCB-	99			5,9			
			PCB-	110			5,6			
			PCB-	141			1,4			
			PCB-	151			3,2			
			PCB-	183			0,84			
			PCB-	185			0,087			
			PCB-	187			2,5			
			PCB-	191			0,037			
			PCB-	193			0,33			
			PCB-	194			0,37			
			PCB-	201			0,67			
			PCB-	203			0,54			
			PCB-	206			0,11			
			PCB-	209			0,071			
			Small differences on totals result from computerroundings							
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	REF: ENV 2001/320
	Sample No. (ERGO)	H-01-09-0214
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	15,2

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,16	1,0	0,16
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,33	1,0	0,33
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,39	0,20	< LOQ	0,020
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,39	0,20	< LOQ	0,020
			1.2.3.7.8.9-Hexa-CDD	0,39	0,20	< LOQ	0,020
			1.2.3.4.6.7.8-Hepta-CDD	1,1	0,57	< LOQ	0,0057
			OCDD	4,3	2,2	< LOQ	0,0001
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		4,4	0,1	0,44
	Accredited	**	1.2.3.7.8-Penta-CDF		0,41	0,05	0,020
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,1	0,5	0,57
			1.2.3.4.7.8-Hexa-CDF	0,39	0,20	< LOQ	0,020
			1.2.3.6.7.8-Hexa-CDF	0,39	0,20	< LOQ	0,020
			1.2.3.7.8.9-Hexa-CDF	0,39	0,20	< LOQ	0,020
			2.3.4.6.7.8-Hexa-CDF	0,39	0,20	< LOQ	0,020
			1.2.3.4.6.7.8-Hepta-CDF	1,0	0,52	< LOQ	0,0052
			1.2.3.4.7.8.9-Hepta-CDF	0,53	0,26	< LOQ	0,0026
			OCDF	5,8	2,9	< LOQ	0,0001
	Total PCDD				0,49		0,56
	Total PCDF				5,9		1,1
	TEQ (WHO) (PCDDs and PCDFs)				6,4		1,7

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	REF: ENV 2001/320								
	Sample No. (ERGO)	H-01-09-0214								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	15,2								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			54	0,0001	0,0054	
	Detection	HRGC/HRMS	PCB-	81			3,3	0,0001	0,00033	
	Accredited	**	PCB-	126			23	0,1	2,3	
	Uncertainty (%)		PCB-	169			6,8	0,01	0,068	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			1790	0,0001	0,18	
	Accredited	**	PCB-	114			123	0,0005	0,061	
	Uncertainty (%)		PCB-	118			5585	0,0001	0,56	
			PCB-	123			n.a.	0,0001		
			PCB-	156			416	0,0005	0,21	
			PCB-	157			141	0,0005	0,070	
			PCB-	167			309	0,00001	0,0031	
			PCB-	189			33	0,0001	0,0033	
			Total non-ortho PCB					87		2,4
	Total mono-ortho PCB					8396		1,1		
	Total WHO-PCB					8484		3,5		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								5,1	
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			1,6			
	Accredited	**	PCB-	52			3,8			
	Uncertainty (%)		PCB-	101			7,7			
			PCB-	118			5,6			
			PCB-	138			12			
			PCB-	153			13			
			PCB-	180			3,1			
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,1			
	Accredited	**	PCB-	31			1,1			
	Uncertainty (%)		PCB-	33			0,50			
			PCB-	37	0,072	0,036	< LOQ			
			PCB-	41			1,4			
			PCB-	44			1,5			
			PCB-	47			0,88			
			PCB-	49			1,3			
			PCB-	51			0,060			
			PCB-	60			0,53			
			PCB-	66			2,6			
			PCB-	74			2,3			
			PCB-	87			2,6			
			PCB-	99			3,8			
			PCB-	110			3,9			
			PCB-	141			1,1			
			PCB-	151			2,3			
			PCB-	183			0,64			
			PCB-	185			0,084			
			PCB-	187			1,9			
			PCB-	191			0,028			
			PCB-	193			0,25			
			PCB-	194			0,25			
			PCB-	201			0,61			
			PCB-	203			0,39			
			PCB-	206			0,11			
			PCB-	209			0,034			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/030
	Sample No. (ERGO)	H-01-09-0215
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	16,9

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		1,2	1,0	1,2
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,8	1,0	1,8
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,36	0,18	< LOQ	0,018
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,65	0,1	0,065
			1.2.3.7.8.9-Hexa-CDD	0,36	0,18	< LOQ	0,018
			1.2.3.4.6.7.8-Hepta-CDD	1,1	0,55	< LOQ	0,0055
			OCDD	4,2	2,1	< LOQ	0,00021
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		24	0,1	2,4
	Accredited	**	1.2.3.7.8-Penta-CDF		2,5	0,05	0,12
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		6,4	0,5	3,2
			1.2.3.4.7.8-Hexa-CDF		0,30	0,1	0,030
			1.2.3.6.7.8-Hexa-CDF		0,27	0,1	0,027
			1.2.3.7.8.9-Hexa-CDF	0,36	0,18	< LOQ	0,018
			2.3.4.6.7.8-Hexa-CDF		0,33	0,1	0,033
			1.2.3.4.6.7.8-Hepta-CDF	1,0	0,50	< LOQ	0,0050
			1.2.3.4.7.8.9-Hepta-CDF	0,47	0,24	< LOQ	0,0024
			OCDF	5,7	2,8	< LOQ	0,00028
	Total PCDD				3,7		3,1
	Total PCDF				33		5,8
	TEQ (WHO) (PCDDs and PCDFs)				37		8,9

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland							
	Year	2001							
	Clients Code	RES 2001/030							
	Sample No. (ERGO)	H-01-09-0215							
	Product								
	Tissue	Fish (Salmon)							
	Expression of results								
	Stage of marketing								
	Type of sampling								
	Sample No.								
	Area								
	Number of subsamples								
	Fat content (%)	16,9							
2	non-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77		718	0,0001	0,072	
	Detection	HRGC/HRMS	PCB-	81		21	0,0001	0,0021	
	Accredited	**	PCB-	126		216	0,1	22	
	Uncertainty (%)		PCB-	169		27	0,01	0,27	
3	mono-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105		11164	0,0001	1,1	
	Accredited	**	PCB-	114		463	0,0005	0,23	
	Uncertainty (%)		PCB-	118		30301	0,0001	3,0	
			PCB-	123		n.a.	0,0001		
			PCB-	156		3445	0,0005	1,7	
			PCB-	157		916	0,0005	0,46	
			PCB-	167		2329	0,00001	0,023	
			PCB-	189		311	0,0001	0,031	
	Total non-ortho PCB					982		22	
	Total mono-ortho PCB					48929		6,6	
	Total WHO-PCB					49911		29	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							37	
	4	PCB-7 (6) (ppb)		PCB congeners	LOQ	LOD	Results		
		Methods	*	PCB-	28		5,0		
		Accredited	**	PCB-	52		13		
Uncertainty (%)			PCB-	101		39			
			PCB-	118		30			
			PCB-	138		80			
			PCB-	153		80			
			PCB-	180		16			
5	Other PCBs (ppb)		PCB congeners	LOQ	LOD	Results			
	Methods	*	PCB-	18		2,8			
	Accredited	**	PCB-	31		3,7			
	Uncertainty (%)		PCB-	33		1,6			
			PCB-	37		0,12			
			PCB-	41		5,5			
			PCB-	44		5,5			
			PCB-	47		3,6			
			PCB-	49		4,8			
			PCB-	51		0,26			
			PCB-	60		2,9			
			PCB-	66		12			
			PCB-	74		8,5			
			PCB-	87		12			
			PCB-	99		20			
			PCB-	110		35			
			PCB-	141		4,8			
			PCB-	151		12			
			PCB-	183		3,3			
			PCB-	185		0,37			
			PCB-	187		11			
			PCB-	191		0,22			
			PCB-	193		1,7			
			PCB-	194		1,3			
			PCB-	201		1,9			
			PCB-	203		1,8			
			PCB-	206		0,29			
			PCB-	209		0,11			
	Small differences on totals result from computerroundings								
	* = see report, section "Methods"								
	** = Accreditation in progress								
	(DACH 175/ERGO/20.06.00/00)								

- lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/031
	Sample No. (ERGO)	H-01-09-0216
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	16

[illegible]

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,45	1,0	0,45
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			0,81	1,0	0,81
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,38	0,19	< LOQ	0,1	0,019
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD			0,33	0,1	0,033
			1.2.3.7.8.9-Hexa-CDD	0,38	0,19	< LOQ	0,1	0,019
			1.2.3.4.6.7.8-Hepta-CDD	1,1	0,54	< LOQ	0,01	0,0054
		OCDD	4,1	2,1	< LOQ	0,0001	0,00021	
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			13	0,1	1,3
	Accredited	**	1.2.3.7.8-Penta-CDF			1,2	0,05	0,060
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			2,8	0,5	1,4
			1.2.3.4.7.8-Hexa-CDF	0,38	0,19	< LOQ	0,1	0,019
			1.2.3.6.7.8-Hexa-CDF	0,38	0,19	< LOQ	0,1	0,019
			1.2.3.7.8.9-Hexa-CDF	0,38	0,19	< LOQ	0,1	0,019
			2.3.4.6.7.8-Hexa-CDF			0,20	0,1	0,020
			1.2.3.4.6.7.8-Hepta-CDF	0,98	0,49	< LOQ	0,01	0,0049
			1.2.3.4.7.8.9-Hepta-CDF	0,50	0,25	< LOQ	0,01	0,0025
			OCDF	5,6	2,8	< LOQ	0,0001	0,00028
	Total PCDD				1,6		1,3	
	Total PCDF				17		2,8	
	TEQ (WHO) (PCDDs and PCDFs)				19		4,2	

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/031								
	Sample No. (ERGO)	H-01-09-0216								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	16								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			404	0,0001	0,040	
	Detection	HRGC/HRMS	PCB-	81			15	0,0001	0,0015	
	Accredited	**	PCB-	126			97	0,1	9,7	
	Uncertainty (%)		PCB-	169			15	0,01	0,15	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			5360	0,0001	0,54	
	Accredited	**	PCB-	114			279	0,0005	0,14	
	Uncertainty (%)		PCB-	118			14007	0,0001	1,4	
			PCB-	123			n.a.	0,0001		
			PCB-	156			1392	0,0005	0,70	
			PCB-	157			385	0,0005	0,19	
			PCB-	167			880	0,00001	0,0088	
			PCB-	189			123	0,0001	0,012	
			Total non-ortho PCB						531	
	Total mono-ortho PCB						22426		3,0	
	Total WHO-PCB						22957		13	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								17	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			6,8		
		Accredited	**	PCB-	52			10		
		Uncertainty (%)		PCB-	101			18		
			PCB-	118			14			
			PCB-	138			30			
			PCB-	153			31			
			PCB-	180			6,9			
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			5,1			
	Accredited	**	PCB-	31			5,5			
	Uncertainty (%)		PCB-	33			3,4			
			PCB-	37			0,31			
			PCB-	41			4,3			
			PCB-	44			5,0			
			PCB-	47			2,7			
			PCB-	49			3,7			
			PCB-	51			0,22			
			PCB-	60			2,3			
			PCB-	66			8,1			
			PCB-	74			6,4			
			PCB-	87			6,5			
			PCB-	99			9,7			
			PCB-	110			11			
			PCB-	141			2,4			
			PCB-	151			5,4			
			PCB-	183			1,5			
			PCB-	185			0,15			
			PCB-	187			4,2			
			PCB-	191			0,083			
			PCB-	193			0,51			
			PCB-	194			0,63			
			PCB-	201			0,84			
			PCB-	203			0,82			
			PCB-	206			0,16			
			PCB-	209			0,11			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/032
	Sample No. (ERGO)	H-01-09-0217
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	12,3

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		1,4	1,0	1,4
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,8	1,0	1,8
	Accredited	**	1.2.3.4.7.8-Hexa-CDD		0,30	0,1	0,030
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,43	0,1	0,043
			1.2.3.7.8.9-Hexa-CDD	0,49	0,24	< LOQ	0,024
			1.2.3.4.6.7.8-Hepta-CDD	1,3	0,67	< LOQ	0,0067
			OCDD	5,1	2,5	< LOQ	0,0001
							0,00025
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		26	0,1	2,6
	Accredited	**	1.2.3.7.8-Penta-CDF		2,0	0,05	0,10
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		5,9	0,5	3,0
			1.2.3.4.7.8-Hexa-CDF		0,40	0,1	0,040
			1.2.3.6.7.8-Hexa-CDF	0,56	0,28	< LOQ	0,028
			1.2.3.7.8.9-Hexa-CDF	0,49	0,24	< LOQ	0,024
			2.3.4.6.7.8-Hexa-CDF		0,30	0,1	0,030
			1.2.3.4.6.7.8-Hepta-CDF	1,2	0,61	< LOQ	0,0061
			1.2.3.4.7.8.9-Hepta-CDF	0,65	0,33	< LOQ	0,0033
			OCDF	6,9	3,4	< LOQ	0,0001
							0,00034
	Total PCDD				3,9		3,3
	Total PCDF				35		5,8
	TEQ (WHO) (PCDDs and PCDFs)				39		9,1

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/032								
	Sample No. (ERGO)	H-01-09-0217								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	12,3								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			699	0,0001	0,070	
	Detection	HRGC/HRMS	PCB-	81			26	0,0001	0,0026	
	Accredited	**	PCB-	126			221	0,1	22	
	Uncertainty (%)		PCB-	169			31	0,01	0,31	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			10347	0,0001	1,0	
	Accredited	**	PCB-	114			478	0,0005	0,24	
	Uncertainty (%)		PCB-	118			29164	0,0001	2,9	
			PCB-	123			n.a.	0,0001		
			PCB-	156			3324	0,0005	1,7	
			PCB-	157			877	0,0005	0,44	
			PCB-	167			2301	0,00001	0,023	
			PCB-	189			358	0,0001	0,036	
			Total non-ortho PCB						978	
	Total mono-ortho PCB						46849		6,3	
	Total WHO-PCB						47826		29	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								38	
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			4,8			
	Accredited	**	PCB-	52			13			
	Uncertainty (%)		PCB-	101			36			
			PCB-	118			29			
			PCB-	138			78			
			PCB-	153			79			
			PCB-	180			17			
5			Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
	Methods	*	PCB-	18			2,2			
	Accredited	**	PCB-	31			3,0			
	Uncertainty (%)		PCB-	33			1,3			
			PCB-	37	0,084	0,042	< LOQ			
			PCB-	41			5,6			
			PCB-	44			5,5			
			PCB-	47			3,5			
			PCB-	49			4,7			
			PCB-	51			0,26			
			PCB-	60			2,2			
			PCB-	66			11			
			PCB-	74			8,0			
			PCB-	87			12			
			PCB-	99			19			
			PCB-	110			29			
			PCB-	141			4,8			
			PCB-	151			12			
			PCB-	183			3,5			
			PCB-	185			0,41			
			PCB-	187			12			
			PCB-	191			0,19			
			PCB-	193			1,7			
			PCB-	194			1,5			
			PCB-	201			2,2			
			PCB-	203			2,2			
			PCB-	206			0,44			
			PCB-	209			0,23			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/036
	Sample No. (ERGO)	H-01-09-0218
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	15,1

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,43	1,0	0,43
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,82	1,0	0,82
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,40	0,20	< LOQ	0,020
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,24	0,1	0,024
			1.2.3.7.8.9-Hexa-CDD	0,40	0,20	< LOQ	0,020
			1.2.3.4.6.7.8-Hepta-CDD	1,1	0,57	< LOQ	0,0057
			OCDD	4,3	2,2	< LOQ	0,0001
							0,00022
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		14	0,1	1,4
	Accredited	**	1.2.3.7.8-Penta-CDF		1,2	0,05	0,061
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,5	0,5	1,3
			1.2.3.4.7.8-Hexa-CDF	0,43	0,21	< LOQ	0,021
			1.2.3.6.7.8-Hexa-CDF	0,40	0,20	< LOQ	0,020
			1.2.3.7.8.9-Hexa-CDF	0,40	0,20	< LOQ	0,020
			2.3.4.6.7.8-Hexa-CDF	0,45	0,22	< LOQ	0,022
			1.2.3.4.6.7.8-Hepta-CDF	1,0	0,52	< LOQ	0,0052
			1.2.3.4.7.8.9-Hepta-CDF	0,53	0,26	< LOQ	0,0026
			OCDF	5,9	2,9	< LOQ	0,0001
							0,00029
	Total PCDD				1,5		1,3
	Total PCDF				18		2,8
	TEQ (WHO) (PCDDs and PCDFs)				19		4,2

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/036								
	Sample No. (ERGO)	H-01-09-0218								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	15,1								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			431	0,0001	0,043	
	Detection	HRGC/HRMS	PCB-	81			18	0,0001	0,0018	
	Accredited	**	PCB-	126			91	0,1	9,1	
	Uncertainty (%)		PCB-	169			14	0,01	0,14	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			5131	0,0001	0,51	
	Accredited	**	PCB-	114			270	0,0005	0,14	
	Uncertainty (%)		PCB-	118			14036	0,0001	1,4	
			PCB-	123			n.a.	0,0001		
			PCB-	156			1289	0,0005	0,64	
			PCB-	157			357	0,0005	0,18	
			PCB-	167			933	0,00001	0,0093	
			PCB-	189			137	0,0001	0,014	
	Total non-ortho PCB						553		9,3	
	Total mono-ortho PCB						22153		2,9	
	Total WHO-PCB						22706		12	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								16	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
Methods		*	PCB-	28			7,8			
Accredited		**	PCB-	52			11			
Uncertainty (%)			PCB-	101			17			
			PCB-	118			14			
			PCB-	138			29			
			PCB-	153			30			
			PCB-	180			6,8			
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			5,6			
	Accredited	**	PCB-	31			6,7			
	Uncertainty (%)		PCB-	33			4,2			
			PCB-	37			0,39			
			PCB-	41			4,6			
			PCB-	44			5,1			
			PCB-	47			3,0			
			PCB-	49			3,9			
			PCB-	51			0,26			
			PCB-	60			2,3			
			PCB-	66			9,0			
			PCB-	74			7,1			
			PCB-	87			6,8			
			PCB-	99			9,6			
			PCB-	110			11			
			PCB-	141			2,4			
			PCB-	151			5,7			
			PCB-	183			1,5			
			PCB-	185			0,16			
			PCB-	187			4,2			
			PCB-	191			0,090			
			PCB-	193			0,60			
			PCB-	194			0,55			
			PCB-	201			0,85			
			PCB-	203			0,82			
			PCB-	206			0,16			
			PCB-	209			0,054			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/039
	Sample No. (ERGO)	H-01-09-0219
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	13,6

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,84	1,0	0,84
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,7	1,0	1,7
	Accredited	**	1.2.3.4.7.8-Hexa-CDD		0,33	0,1	0,033
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,45	0,1	0,045
			1.2.3.7.8.9-Hexa-CDD	0,44	0,22	< LOQ	0,022
			1.2.3.4.6.7.8-Hepta-CDD	1,3	0,63	< LOQ	0,0063
			OCDD	4,7	2,4	< LOQ	0,00024
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		24	0,1	2,4
	Accredited	**	1.2.3.7.8-Penta-CDF		2,0	0,05	0,099
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		4,9	0,5	2,5
			1.2.3.4.7.8-Hexa-CDF		0,25	0,1	0,025
			1.2.3.6.7.8-Hexa-CDF	0,50	0,25	< LOQ	0,025
			1.2.3.7.8.9-Hexa-CDF	0,44	0,22	< LOQ	0,022
			2.3.4.6.7.8-Hexa-CDF		0,28	0,1	0,028
			1.2.3.4.6.7.8-Hepta-CDF	1,1	0,57	< LOQ	0,0057
			1.2.3.4.7.8.9-Hepta-CDF	0,59	0,29	< LOQ	0,0029
			OCDF	6,4	3,2	< LOQ	0,00032
	Total PCDD				3,3		2,7
	Total PCDF				32		5,1
	TEQ (WHO) (PCDDs and PCDFs)				35		7,7

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/039								
	Sample No. (ERGO)	H-01-09-0219								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	13,6								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			566	0,0001	0,057	
	Detection	HRGC/HRMS	PCB-	81			17	0,0001	0,0017	
	Accredited	**	PCB-	126			188	0,1	19	
	Uncertainty (%)		PCB-	169			32	0,01	0,32	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			10784	0,0001	1,1	
	Accredited	**	PCB-	114			474	0,0005	0,24	
	Uncertainty (%)		PCB-	118			29623	0,0001	3,0	
			PCB-	123			n.a.	0,0001		
			PCB-	156			3494	0,0005	1,7	
			PCB-	157			1101	0,0005	0,55	
			PCB-	167			2294	0,00001	0,023	
			PCB-	189			484	0,0001	0,048	
							803		19	
	Total non-ortho PCB						48252		6,6	
	Total mono-ortho PCB						49055		26	
	Total WHO-PCB									
TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								34		
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			5,1			
	Accredited	**	PCB-	52			13			
	Uncertainty (%)		PCB-	101			36			
			PCB-	118			30			
			PCB-	138			86			
			PCB-	153			90			
			PCB-	180			23			
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			2,2			
	Accredited	**	PCB-	31			3,1			
	Uncertainty (%)		PCB-	33			1,4			
			PCB-	37	0,079	0,039	< LOQ			
			PCB-	41			5,8			
			PCB-	44			5,5			
			PCB-	47			3,7			
			PCB-	49			4,4			
			PCB-	51			0,26			
			PCB-	60			2,5			
			PCB-	66			13			
			PCB-	74			9,2			
			PCB-	87			12			
			PCB-	99			20			
			PCB-	110			29			
			PCB-	141			5,4			
			PCB-	151			13			
			PCB-	183			4,8			
			PCB-	185			0,54			
			PCB-	187			17			
			PCB-	191			0,24			
			PCB-	193			2,1			
			PCB-	194			3,2			
			PCB-	201			5,1			
			PCB-	203			4,4			
			PCB-	206			0,98			
			PCB-	209			0,39			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/040
	Sample No. (ERGO)	H-01-09-0220
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	8,7

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,95	1,0	0,95
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,9	1,0	1,9
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,69	0,34	< LOQ	0,034
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,57	0,1	0,057
			1.2.3.7.8.9-Hexa-CDD	0,69	0,34	< LOQ	0,034
			1.2.3.4.6.7.8-Hepta-CDD	1,7	0,84	< LOQ	0,0084
			OCDD	6,3	3,2	< LOQ	0,00032
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		26	0,1	2,6
	Accredited	**	1.2.3.7.8-Penta-CDF		2,0	0,05	0,099
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		4,4	0,5	2,2
			1.2.3.4.7.8-Hexa-CDF	0,69	0,34	< LOQ	0,034
			1.2.3.6.7.8-Hexa-CDF	0,69	0,34	< LOQ	0,034
			1.2.3.7.8.9-Hexa-CDF	0,69	0,34	< LOQ	0,034
			2.3.4.6.7.8-Hexa-CDF	0,69	0,34	< LOQ	0,034
			1.2.3.4.6.7.8-Hepta-CDF	1,5	0,76	< LOQ	0,0076
			1.2.3.4.7.8.9-Hepta-CDF	0,92	0,46	< LOQ	0,0046
			OCDF	8,6	4,3	< LOQ	0,00043
	Total PCDD				3,4		3,0
	Total PCDF				33		5,1
	TEQ (WHO) (PCDDs and PCDFs)				36		8,1

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland							
	Year	2001							
	Clients Code	RES 2001/040							
	Sample No. (ERGO)	H-01-09-0220							
	Product								
	Tissue	Fish (Salmon)							
	Expression of results								
	Stage of marketing								
	Type of sampling								
	Sample No.								
	Area								
	Number of subsamples								
	Fat content (%)	8,7							
2	non-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77		621	0,0001	0,062	
	Detection	HRGC/HRMS	PCB-	81		21	0,0001	0,0021	
	Accredited	**	PCB-	126		216	0,1	22	
	Uncertainty (%)		PCB-	169		35	0,01	0,35	
3	mono-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105		13277	0,0001	1,3	
	Accredited	**	PCB-	114		639	0,0005	0,32	
	Uncertainty (%)		PCB-	118		37622	0,0001	3,8	
			PCB-	123		n.a.	0,0001		
			PCB-	156		4420	0,0005	2,2	
			PCB-	157		1353	0,0005	0,68	
			PCB-	167		2833	0,00001	0,028	
			PCB-	189		501	0,0001	0,050	
			PCB-	189		501	0,0001	0,050	
	Total non-ortho PCB					892		22	
	Total mono-ortho PCB					60644		8,4	
	Total WHO-PCB					61537		30	
TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							38		
4	PCB-7 (6) (ppb)		PCB congeners	LOQ	LOD	Results			
	Methods	*	PCB-	28		5,4			
	Accredited	**	PCB-	52		14			
	Uncertainty (%)		PCB-	101		43			
			PCB-	118		38			
			PCB-	138		98			
			PCB-	153		110			
			PCB-	180		32			
PCB-			180		32				
5	Other PCBs (ppb)		PCB congeners	LOQ	LOD	Results			
	Methods	*	PCB-	18		2,1			
	Accredited	**	PCB-	31		3,9			
	Uncertainty (%)		PCB-	33		1,5			
			PCB-	37	0,11	0,053	< LOQ		
			PCB-	41			6,7		
			PCB-	44			6,0		
			PCB-	47			4,5		
			PCB-	49			4,5		
			PCB-	51			0,40		
			PCB-	60			3,5		
			PCB-	66			17		
			PCB-	74			12		
			PCB-	87			15		
			PCB-	99			24		
			PCB-	110			32		
			PCB-	141			6,9		
			PCB-	151			16		
			PCB-	183			6,5		
			PCB-	185			0,83		
			PCB-	187			24		
			PCB-	191			0,32		
			PCB-	193			3,6		
			PCB-	194			4,2		
			PCB-	201			7,4		
			PCB-	203			6,2		
			PCB-	206			1,4		
			PCB-	209			0,55		
	Small differences on totals result from computerroundings								
	* = see report, section "Methods"								
	** = Accreditation in progress								
	(DACH 175/ERGO/20.06.00/00)								

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/044
	Sample No. (ERGO)	H-01-09-0221
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	17,5

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,72	1,0	0,72
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,2	1,0	1,2
	Accredited	**	1.2.3.4.7.8-Hexa-CDD		0,21	0,1	0,021
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,71	0,1	0,071
			1.2.3.7.8.9-Hexa-CDD		0,24	0,1	0,024
			1.2.3.4.6.7.8-Hepta-CDD		0,98	0,01	0,0098
			OCDD		4,2	0,0001	0,00042
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		21	0,1	2,1
	Accredited	**	1.2.3.7.8-Penta-CDF		1,7	0,05	0,087
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,6	0,5	1,3
			1.2.3.4.7.8-Hexa-CDF		0,18	0,1	0,018
			1.2.3.6.7.8-Hexa-CDF	0,37	0,19	< LOQ	0,1
			1.2.3.7.8.9-Hexa-CDF	0,34	0,17	< LOQ	0,1
			2.3.4.6.7.8-Hexa-CDF		0,27	0,1	0,027
			1.2.3.4.6.7.8-Hepta-CDF	0,91	0,45	< LOQ	0,01
			1.2.3.4.7.8.9-Hepta-CDF	0,46	0,23	< LOQ	0,01
			OCDF	5,1	2,6	< LOQ	0,0001
	Total PCDD				8,2		2,1
	Total PCDF				26		3,6
	TEQ (WHO) (PCDDs and PCDFs)				34		5,6

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/044								
	Sample No. (ERGO)	H-01-09-0221								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	17,5								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			397	0,0001	0,040	
	Detection	HRGC/HRMS	PCB-	81			16	0,0001	0,0016	
	Accredited	**	PCB-	126			157	0,1	16	
	Uncertainty (%)		PCB-	169			25	0,01	0,25	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			9545	0,0001	0,95	
	Accredited	**	PCB-	114			487	0,0005	0,24	
	Uncertainty (%)		PCB-	118			26187	0,0001	2,6	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2799	0,0005	1,4	
			PCB-	157			965	0,0005	0,48	
			PCB-	167			1833	0,00001	0,018	
			PCB-	189			333	0,0001	0,033	
			Total non-ortho PCB						594	
	Total mono-ortho PCB						42149		5,8	
	Total WHO-PCB						42743		22	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								27	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			4,6		
		Accredited	**	PCB-	52			13		
		Uncertainty (%)		PCB-	101			34		
			PCB-	118			26			
			PCB-	138			74			
			PCB-	153			77			
			PCB-	180			22			
	5		Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
Methods		*	PCB-	18			2,2			
Accredited		**	PCB-	31			3,4			
Uncertainty (%)			PCB-	33			1,3			
			PCB-	37			0,073			
			PCB-	41			5,1			
			PCB-	44			5,2			
			PCB-	47			3,5			
			PCB-	49			4,2			
			PCB-	51			0,21			
			PCB-	60			2,8			
			PCB-	66			13			
			PCB-	74			10			
			PCB-	87			11			
			PCB-	99			19			
			PCB-	110			23			
			PCB-	141			5,0			
			PCB-	151			11			
			PCB-	183			4,4			
			PCB-	185			0,53			
			PCB-	187			16			
			PCB-	191			0,24			
			PCB-	193			2,3			
			PCB-	194			2,5			
			PCB-	201			4,3			
			PCB-	203			3,8			
			PCB-	206			0,75			
			PCB-	209			0,32			
Small differences on totals result from computerroundings										
* = see report, section "Methods"										
** = Accreditation in progress										
(DACH 175/ERGO/20.06.00/00)										

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/045
	Sample No. (ERGO)	H-01-09-0222
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	15,4

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,67	1,0	0,67
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,0	1,0	1,0
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,39	0,19	< LOQ	0,19
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,48	0,1	0,048
			1.2.3.7.8.9-Hexa-CDD	0,39	0,19	< LOQ	0,19
			1.2.3.4.6.7.8-Hepta-CDD	0,86	0,43	< LOQ	0,0043
			OCDD	4,2	2,1	< LOQ	0,00021
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		22	0,1	2,2
	Accredited	**	1.2.3.7.8-Penta-CDF		1,5	0,05	0,076
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,5	0,5	1,3
			1.2.3.4.7.8-Hexa-CDF	0,46	0,23	< LOQ	0,023
			1.2.3.6.7.8-Hexa-CDF	0,40	0,20	< LOQ	0,020
			1.2.3.7.8.9-Hexa-CDF	0,39	0,19	< LOQ	0,019
			2.3.4.6.7.8-Hexa-CDF		0,21	0,1	0,021
			1.2.3.4.6.7.8-Hepta-CDF	1,3	0,63	< LOQ	0,0063
			1.2.3.4.7.8.9-Hepta-CDF	0,55	0,28	< LOQ	0,0028
			OCDF	6,5	3,3	< LOQ	0,00033
	Total PCDD				2,2		1,8
	Total PCDF				26		3,6
	TEQ (WHO) (PCDDs and PCDFs)				28		5,4

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/045								
	Sample No. (ERGO)	H-01-09-0222								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	15,4								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			381	0,0001	0,038	
	Detection	HRGC/HRMS	PCB-	81			17	0,0001	0,0017	
	Accredited	**	PCB-	126			150	0,1	15	
	Uncertainty (%)		PCB-	169			25	0,01	0,25	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			9763	0,0001	0,98	
	Accredited	**	PCB-	114			510	0,0005	0,26	
	Uncertainty (%)		PCB-	118			26892	0,0001	2,7	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2936	0,0005	1,5	
			PCB-	157			927	0,0005	0,46	
			PCB-	167			2017	0,00001	0,020	
			PCB-	189			335	0,0001	0,034	
			Total non-ortho PCB						574	
	Total mono-ortho PCB						43381		5,9	
	Total WHO-PCB						43954		21	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								27	
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			4,1			
	Accredited	**	PCB-	52			12			
	Uncertainty (%)		PCB-	101			30			
			PCB-	118			27			
			PCB-	138			63			
			PCB-	153			69			
			PCB-	180			20			
5			Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
	Methods	*	PCB-	18			1,4			
	Accredited	**	PCB-	31			3,2			
	Uncertainty (%)		PCB-	33			1,1			
			PCB-	37	0,073	0,037	< LOQ			
			PCB-	41			5,6			
			PCB-	44			5,3			
			PCB-	47			3,4			
			PCB-	49			4,1			
			PCB-	51			0,20			
			PCB-	60			2,2			
			PCB-	66			8,6			
			PCB-	74			6,6			
			PCB-	87			11			
			PCB-	99			21			
			PCB-	110			21			
			PCB-	141			4,8			
			PCB-	151			9,6			
			PCB-	183			4,0			
			PCB-	185			0,49			
			PCB-	187			13			
			PCB-	191			0,20			
			PCB-	193			1,7			
			PCB-	194			2,8			
			PCB-	201			4,3			
			PCB-	203			3,7			
			PCB-	206			0,87			
			PCB-	209			0,28			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/051
	Sample No. (ERGO)	H-01-09-0223
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	19,3

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,54	1,0	0,54
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,75	1,0	0,75
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,31	0,16	< LOQ	0,016
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,32	0,1	0,032
			1.2.3.7.8.9-Hexa-CDD	0,31	0,16	< LOQ	0,016
			1.2.3.4.6.7.8-Hepta-CDD	0,74	0,37	< LOQ	0,0037
			OCDD	3,6	1,8	< LOQ	0,0001
							0,00018
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		16	0,1	1,6
	Accredited	**	1.2.3.7.8-Penta-CDF		1,1	0,05	0,054
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,7	0,5	0,84
			1.2.3.4.7.8-Hexa-CDF	0,31	0,16	< LOQ	0,016
			1.2.3.6.7.8-Hexa-CDF	0,31	0,16	< LOQ	0,016
			1.2.3.7.8.9-Hexa-CDF	0,31	0,16	< LOQ	0,016
			2.3.4.6.7.8-Hexa-CDF	0,28	0,14	< LOQ	0,014
			1.2.3.4.6.7.8-Hepta-CDF	1,1	0,54	< LOQ	0,0054
			1.2.3.4.7.8.9-Hepta-CDF	0,41	0,21	< LOQ	0,0021
			OCDF	5,6	2,8	< LOQ	0,00028
	Total PCDD				1,6		1,4
	Total PCDF				19		2,6
	TEQ (WHO) (PCDDs and PCDFs)				21		3,9

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/051								
	Sample No. (ERGO)	H-01-09-0223								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	19,3								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			320	0,0001	0,032	
	Detection	HRGC/HRMS	PCB-	81			14	0,0001	0,0014	
	Accredited	**	PCB-	126			121	0,1	12	
	Uncertainty (%)		PCB-	169			18	0,01	0,18	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			8015	0,0001	0,80	
	Accredited	**	PCB-	114			420	0,0005	0,21	
	Uncertainty (%)		PCB-	118			21957	0,0001	2,2	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2455	0,0005	1,2	
			PCB-	157			736	0,0005	0,37	
			PCB-	167			1762	0,00001	0,018	
			PCB-	189			257	0,0001	0,026	
	Total non-ortho PCB						472		12	
	Total mono-ortho PCB						35603		4,8	
	Total WHO-PCB						36075		17	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								21	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			3,7		
Accredited		**	PCB-	52			11			
Uncertainty (%)			PCB-	101			25			
		PCB-	118			22				
		PCB-	138			50				
		PCB-	153			55				
		PCB-	180			15				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,3			
	Accredited	**	PCB-	31			2,5			
	Uncertainty (%)		PCB-	33			0,92			
			PCB-	37	0,063	0,032	< LOQ			
			PCB-	41			3,8			
			PCB-	44			3,7			
			PCB-	47			2,3			
			PCB-	49			2,8			
			PCB-	51			0,16			
			PCB-	60			1,8			
			PCB-	66			7,3			
			PCB-	74			5,6			
			PCB-	87			8,8			
			PCB-	99			14			
			PCB-	110			19			
			PCB-	141			4,1			
			PCB-	151			8,2			
			PCB-	183			3,0			
			PCB-	185			0,38			
			PCB-	187			9,9			
			PCB-	191			0,15			
			PCB-	193			1,3			
			PCB-	194			2,1			
			PCB-	201			3,3			
			PCB-	203			2,9			
			PCB-	206			0,63			
			PCB-	209			0,20			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/001
	Sample No. (ERGO)	H-01-09-0224
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	21,1

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,25	1,0	0,25
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,60	1,0	0,60
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,28	0,14	< LOQ	0,014
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,26	0,1	0,026
			1.2.3.7.8.9-Hexa-CDD	0,28	0,14	< LOQ	0,014
			1.2.3.4.6.7.8-Hepta-CDD	0,69	0,34	< LOQ	0,0034
			OCDD	3,4	1,7	< LOQ	0,00017
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		9,8	0,1	0,98
	Accredited	**	1.2.3.7.8-Penta-CDF	0,28	0,14	< LOQ	0,0071
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,8	0,5	0,88
			1.2.3.4.7.8-Hexa-CDF	0,28	0,14	< LOQ	0,014
			1.2.3.6.7.8-Hexa-CDF	0,28	0,14	< LOQ	0,014
			1.2.3.7.8.9-Hexa-CDF	0,28	0,14	< LOQ	0,014
			2.3.4.6.7.8-Hexa-CDF	0,26	0,13	< LOQ	0,013
			1.2.3.4.6.7.8-Hepta-CDF	1,0	0,50	< LOQ	0,0050
			1.2.3.4.7.8.9-Hepta-CDF	0,38	0,19	< LOQ	0,0019
			OCDF	5,2	2,6	< LOQ	0,00026
	Total PCDD				1,1		0,91
	Total PCDF				12		1,9
	TEQ (WHO) (PCDDs and PCDFs)				13		2,8

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/051								
	Sample No. (ERGO)	H-01-09-0224								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	21,1								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			198	0,0001	0,020	
	Detection	HRGC/HRMS	PCB-	81			3,8	0,0001	0,00038	
	Accredited	**	PCB-	126			76	0,1	7,6	
	Uncertainty (%)		PCB-	169			15	0,01	0,15	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			5241	0,0001	0,52	
	Accredited	**	PCB-	114			358	0,0005	0,18	
	Uncertainty (%)		PCB-	118			12900	0,0001	1,3	
			PCB-	123			n.a.	0,0001		
			PCB-	156			1142	0,0005	0,57	
			PCB-	157			324	0,0005	0,16	
			PCB-	167			705	0,00001	0,0071	
			PCB-	189			83	0,0001	0,0083	
			Total non-ortho PCB						292	
	Total mono-ortho PCB						20753		2,7	
	Total WHO-PCB						21045		10	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								13	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			2,7		
		Accredited	**	PCB-	52			9,1		
		Uncertainty (%)		PCB-	101			16		
			PCB-	118			13			
			PCB-	138			21			
			PCB-	153			21			
			PCB-	180			5,1			
	5		Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
Methods		*	PCB-	18			1,0			
Accredited		**	PCB-	31			2,1			
Uncertainty (%)			PCB-	33			0,56			
			PCB-	37	0,058	0,029	< LOQ			
			PCB-	41			3,1			
			PCB-	44			3,4			
			PCB-	47			1,8			
			PCB-	49			2,3			
			PCB-	51			0,11			
			PCB-	60			1,1			
			PCB-	66			4,7			
			PCB-	74			3,9			
			PCB-	87			6,0			
			PCB-	99			8,5			
			PCB-	110			10,0			
			PCB-	141			2,0			
			PCB-	151			4,1			
			PCB-	183			1,0			
			PCB-	185			0,10			
			PCB-	187			2,7			
			PCB-	191			0,063			
			PCB-	193			0,39			
			PCB-	194			0,44			
			PCB-	201			0,64			
			PCB-	203			0,63			
			PCB-	206			0,11			
			PCB-	209			0,090			
Small differences on totals result from computerroundings										
* = see report, section "Methods"										
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)										

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/002
	Sample No. (ERGO)	H-01-09-0225
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	17,3

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,53	1,0	0,53
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,1	1,0	1,1
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,35	0,17	< LOQ	0,1
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,42	0,1	0,042
			1.2.3.7.8.9-Hexa-CDD	0,35	0,17	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDD	0,80	0,40	< LOQ	0,01
			OCDD	3,9	2,0	< LOQ	0,0001
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		18	0,1	1,8
	Accredited	**	1.2.3.7.8-Penta-CDF		1,3	0,05	0,064
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,6	0,5	1,3
			1.2.3.4.7.8-Hexa-CDF	0,35	0,17	< LOQ	0,1
			1.2.3.6.7.8-Hexa-CDF	0,35	0,17	< LOQ	0,1
			1.2.3.7.8.9-Hexa-CDF	0,35	0,17	< LOQ	0,1
			2.3.4.6.7.8-Hexa-CDF	0,48	0,24	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDF	1,2	0,59	< LOQ	0,01
			1.2.3.4.7.8.9-Hepta-CDF	0,46	0,23	< LOQ	0,01
			OCDF	6,1	3,0	< LOQ	0,0001
	Total PCDD				2,1		1,7
	Total PCDF				22		3,2
	TEQ (WHO) (PCDDs and PCDFs)				24		4,9

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/051								
	Sample No. (ERGO)	H-01-09-0225								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	17,3								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			367	0,0001	0,037	
	Detection	HRGC/HRMS	PCB-	81			13	0,0001	0,0013	
	Accredited	**	PCB-	126			128	0,1	13	
	Uncertainty (%)		PCB-	169			22	0,01	0,22	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			9354	0,0001	0,94	
	Accredited	**	PCB-	114			477	0,0005	0,24	
	Uncertainty (%)		PCB-	118			24120	0,0001	2,4	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2712	0,0005	1,4	
			PCB-	157			857	0,0005	0,43	
			PCB-	167			1861	0,00001	0,019	
			PCB-	189			318	0,0001	0,032	
			PCB-	189			318	0,0001	0,032	
	Total non-ortho PCB						530		13	
	Total mono-ortho PCB						39699		5,4	
	Total WHO-PCB						40229		18	
TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								23		
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			4,0			
	Accredited	**	PCB-	52			11			
	Uncertainty (%)		PCB-	101			28			
			PCB-	118			24			
			PCB-	138			60			
			PCB-	153			66			
			PCB-	180			17			
PCB-			180			17				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,6			
	Accredited	**	PCB-	31			3,1			
	Uncertainty (%)		PCB-	33			1,1			
			PCB-	37	0,068	0,034	< LOQ			
			PCB-	41			4,7			
			PCB-	44			4,4			
			PCB-	47			3,1			
			PCB-	49			3,4			
			PCB-	51			0,24			
			PCB-	60			1,8			
			PCB-	66			8,0			
			PCB-	74			6,2			
			PCB-	87			8,7			
			PCB-	99			16			
			PCB-	110			20			
			PCB-	141			4,4			
			PCB-	151			8,7			
			PCB-	183			4,3			
			PCB-	185			0,59			
			PCB-	187			15			
			PCB-	191			0,18			
			PCB-	193			2,3			
			PCB-	194			2,8			
			PCB-	201			4,3			
			PCB-	203			3,5			
			PCB-	206			0,89			
			PCB-	209			0,26			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/014
	Sample No. (ERGO)	H-01-09-0226
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	23,5

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,51	1,0	0,51
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,81	1,0	0,81
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,26	0,13	< LOQ	0,013
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,40	0,1	0,040
			1.2.3.7.8.9-Hexa-CDD	0,26	0,13	< LOQ	0,013
			1.2.3.4.6.7.8-Hepta-CDD	0,65	0,32	< LOQ	0,0032
			OCDD	3,2	1,6	< LOQ	0,0001
							0,00016
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		16	0,1	1,6
	Accredited	**	1.2.3.7.8-Penta-CDF		1,3	0,05	0,063
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,8	0,5	0,92
			1.2.3.4.7.8-Hexa-CDF	0,35	0,17	< LOQ	0,017
			1.2.3.6.7.8-Hexa-CDF		0,14	0,1	0,014
			1.2.3.7.8.9-Hexa-CDF	0,26	0,13	< LOQ	0,013
			2.3.4.6.7.8-Hexa-CDF		0,20	0,1	0,020
			1.2.3.4.6.7.8-Hepta-CDF	0,95	0,47	< LOQ	0,0047
			1.2.3.4.7.8.9-Hepta-CDF	0,34	0,17	< LOQ	0,0017
			OCDF	4,9	2,5	< LOQ	0,0001
							0,00025
	Total PCDD				1,7		1,4
	Total PCDF				19		2,6
	TEQ (WHO) (PCDDs and PCDFs)				21		4,0

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/051								
	Sample No. (ERGO)	H-01-09-0226								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	23,5								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			299	0,0001	0,030	
	Detection	HRGC/HRMS	PCB-	81			13	0,0001	0,0013	
	Accredited	**	PCB-	126			112	0,1	11	
	Uncertainty (%)		PCB-	169			17	0,01	0,17	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			7643	0,0001	0,76	
	Accredited	**	PCB-	114			398	0,0005	0,20	
	Uncertainty (%)		PCB-	118			19571	0,0001	2,0	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2161	0,0005	1,1	
			PCB-	157			661	0,0005	0,33	
			PCB-	167			1404	0,00001	0,014	
			PCB-	189			220	0,0001	0,022	
			Total non-ortho PCB					441		11
	Total mono-ortho PCB					32059		4,4		
	Total WHO-PCB					32499		16		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							20		
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			3,2			
	Accredited	**	PCB-	52			9,7			
	Uncertainty (%)		PCB-	101			23			
			PCB-	118			20			
			PCB-	138			46			
			PCB-	153			51			
			PCB-	180			13			
5			Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
	Methods	*	PCB-	18			1,2			
	Accredited	**	PCB-	31			2,6			
	Uncertainty (%)		PCB-	33			0,87			
			PCB-	37	0,055	0,027	< LOQ			
			PCB-	41			4,1			
			PCB-	44			4,1			
			PCB-	47			2,5			
			PCB-	49			3,1			
			PCB-	51			0,15			
			PCB-	60			1,9			
			PCB-	66			8,5			
			PCB-	74			6,7			
			PCB-	87			8,2			
			PCB-	99			13			
			PCB-	110			18			
			PCB-	141			3,4			
			PCB-	151			7,5			
			PCB-	183			2,7			
			PCB-	185			0,34			
			PCB-	187			8,9			
			PCB-	191			0,12			
			PCB-	193			1,2			
			PCB-	194			1,7			
			PCB-	201			2,6			
			PCB-	203			2,2			
			PCB-	206			0,47			
			PCB-	209			0,14			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/020
	Sample No. (ERGO)	H-01-10-0227
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	15,6

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,35	1,0	0,35
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,75	1,0	0,75
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,38	0,19	< LOQ	0,19
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,33	0,1	0,033
			1.2.3.7.8.9-Hexa-CDD	0,38	0,19	< LOQ	0,19
			1.2.3.4.6.7.8-Hepta-CDD	0,86	0,43	< LOQ	0,0043
			OCDD	4,2	2,1	< LOQ	0,00021
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		12	0,1	1,2
	Accredited	**	1.2.3.7.8-Penta-CDF		1,0	0,05	0,050
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,5	0,5	1,2
			1.2.3.4.7.8-Hexa-CDF	0,38	0,19	< LOQ	0,19
			1.2.3.6.7.8-Hexa-CDF	0,38	0,19	< LOQ	0,19
			1.2.3.7.8.9-Hexa-CDF	0,38	0,19	< LOQ	0,19
			2.3.4.6.7.8-Hexa-CDF	0,56	0,28	< LOQ	0,028
			1.2.3.4.6.7.8-Hepta-CDF	1,3	0,63	< LOQ	0,0063
			1.2.3.4.7.8.9-Hepta-CDF	0,51	0,26	< LOQ	0,0026
			OCDF	6,5	3,3	< LOQ	0,00033
	Total PCDD				1,4		1,2
	Total PCDF				16		2,6
	TEQ (WHO) (PCDDs and PCDFs)				17		3,8

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland									
	Year	2001									
	Clients Code	RES 2001/051									
	Sample No. (ERGO)	H-01-09-0227									
	Product										
	Tissue	Fish (Salmon)									
	Expression of results										
	Stage of marketing										
	Type of sampling										
	Sample No.										
	Area										
	Number of subsamples										
	Fat content (%)	15,6									
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ		
	Methods	*	PCB-	77			197	0,0001	0,020		
	Detection	HRGC/HRMS	PCB-	81			5,1	0,0001	0,00051		
	Accredited	**	PCB-	126			81	0,1	8,1		
	Uncertainty (%)		PCB-	169			14	0,01	0,14		
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ		
	Methods	*	PCB-	105			5610	0,0001	0,56		
	Accredited	**	PCB-	114			310	0,0005	0,16		
	Uncertainty (%)		PCB-	118			13961	0,0001	1,4		
			PCB-	123			n.a.	0,0001			
			PCB-	156			1246	0,0005	0,62		
			PCB-	157			343	0,0005	0,17		
			PCB-	167			764	0,00001	0,0076		
			PCB-	189			96	0,0001	0,0096		
			Total non-ortho PCB					298		8,3	
	Total mono-ortho PCB					22329		2,9			
	Total WHO-PCB					22627		11			
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								15		
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results				
	Methods	*	PCB-	28			2,9				
	Accredited	**	PCB-	52			9,9				
	Uncertainty (%)		PCB-	101			18				
			PCB-	118			14				
			PCB-	138			25				
			PCB-	153			24				
			PCB-	180			5,5				
5			Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results		
	Methods	*	PCB-	18			1,2				
	Accredited	**	PCB-	31			2,3				
	Uncertainty (%)		PCB-	33			0,64				
			PCB-	37	0,073	0,037	< LOQ				
			PCB-	41			3,1				
			PCB-	44			3,8				
			PCB-	47			2,0				
			PCB-	49			2,5				
			PCB-	51			0,16				
			PCB-	60			1,3				
			PCB-	66			5,2				
			PCB-	74			4,3				
			PCB-	87			6,3				
			PCB-	99			9,0				
			PCB-	110			14				
			PCB-	141			2,2				
			PCB-	151			4,7				
			PCB-	183			1,1				
			PCB-	185			0,12				
			PCB-	187			3,0				
			PCB-	191			0,056				
			PCB-	193			0,43				
			PCB-	194			0,49				
			PCB-	201			0,63				
			PCB-	203			0,62				
			PCB-	206			0,11				
			PCB-	209			0,066				
Small differences on totals result from computerroundings											
* = see report, section "Methods"											
** = Accreditation in progress											
(DACH 175/ERGO/20.06.00/00)											

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/024
	Sample No. (ERGO)	H-01-09-0228
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	16,8

Remarks

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,61	1,0	0,61
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,0	1,0	1,0
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,36	0,18	< LOQ	0,1
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,58	0,1	0,058
			1.2.3.7.8.9-Hexa-CDD	0,36	0,18	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDD	0,82	0,41	< LOQ	0,01
			OCDD	4,0	2,0	< LOQ	0,0001
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		21	0,1	2,1
	Accredited	**	1.2.3.7.8-Penta-CDF		1,6	0,05	0,081
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		2,5	0,5	1,2
			1.2.3.4.7.8-Hexa-CDF	0,48	0,24	< LOQ	0,1
			1.2.3.6.7.8-Hexa-CDF		0,20	0,1	0,020
			1.2.3.7.8.9-Hexa-CDF	0,36	0,18	< LOQ	0,1
			2.3.4.6.7.8-Hexa-CDF		0,33	0,1	0,033
			1.2.3.4.6.7.8-Hepta-CDF	1,2	0,60	< LOQ	0,01
			1.2.3.4.7.8.9-Hepta-CDF	0,48	0,24	< LOQ	0,01
			OCDF	6,2	3,1	< LOQ	0,0001
	Total PCDD				2,2		1,7
	Total PCDF				26		3,5
	TEQ (WHO) (PCDDs and PCDFs)				28		5,2

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon)
- lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/051								
	Sample No. (ERGO)	H-01-09-0228								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	16,8								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			430	0,0001	0,043	
	Detection	HRGC/HRMS	PCB-	81			16	0,0001	0,0016	
	Accredited	**	PCB-	126			159	0,1	16	
	Uncertainty (%)		PCB-	169			25	0,01	0,25	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			10468	0,0001	1,0	
	Accredited	**	PCB-	114			635	0,0005	0,32	
	Uncertainty (%)		PCB-	118			29303	0,0001	2,9	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2591	0,0005	1,3	
			PCB-	157			879	0,0005	0,44	
			PCB-	167			1938	0,00001	0,019	
			PCB-	189			324	0,0001	0,032	
			Total non-ortho PCB						629	
	Total mono-ortho PCB						46138		6,1	
	Total WHO-PCB						46767		22	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								27	
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			3,9			
	Accredited	**	PCB-	52			12			
	Uncertainty (%)		PCB-	101			25			
			PCB-	118			29			
			PCB-	138			72			
			PCB-	153			88			
			PCB-	180			19			
5			Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
	Methods	*	PCB-	18			1,4			
	Accredited	**	PCB-	31			2,9			
	Uncertainty (%)		PCB-	33			1,2			
			PCB-	37	0,070	0,035	< LOQ			
			PCB-	41			6,2			
			PCB-	44			5,5			
			PCB-	47			3,7			
			PCB-	49			4,2			
			PCB-	51			0,27			
			PCB-	60			2,7			
			PCB-	66			11			
			PCB-	74			8,1			
			PCB-	87			12			
			PCB-	99			14			
			PCB-	110			21			
			PCB-	141			9,4			
			PCB-	151			20			
			PCB-	183			4,5			
			PCB-	185			0,51			
			PCB-	187			14			
			PCB-	191			0,21			
			PCB-	193			1,9			
			PCB-	194			2,7			
			PCB-	201			4,1			
			PCB-	203			3,6			
			PCB-	206			0,69			
			PCB-	209			0,18			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Salmon) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	RES 2001/028
	Sample No. (ERGO)	H-01-09-0229
	Product	
	Tissue	Fish (Salmon)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	16,7

Remarks

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,65	1,0	0,65
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			1,1	1,0	1,1
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,36	0,18	< LOQ	0,1	0,018
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD			0,55	0,1	0,055
			1.2.3.7.8.9-Hexa-CDD	0,36	0,18	< LOQ	0,1	0,018
			1.2.3.4.6.7.8-Hepta-CDD	0,85	0,43	< LOQ	0,01	0,0043
			OCDD	4,2	2,1	< LOQ	0,0001	0,00021
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			20	0,1	2,0
	Accredited	**	1.2.3.7.8-Penta-CDF			1,5	0,05	0,075
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			2,7	0,5	1,3
			1.2.3.4.7.8-Hexa-CDF			0,20	0,1	0,020
			1.2.3.6.7.8-Hexa-CDF	0,41	0,20	< LOQ	0,1	0,020
			1.2.3.7.8.9-Hexa-CDF	0,36	0,18	< LOQ	0,1	0,018
			2.3.4.6.7.8-Hexa-CDF			0,23	0,1	0,023
			1.2.3.4.6.7.8-Hepta-CDF	1,2	0,62	< LOQ	0,01	0,0062
			1.2.3.4.7.8.9-Hepta-CDF	0,48	0,24	< LOQ	0,01	0,0024
			OCDF	6,5	3,2	< LOQ	0,0001	0,00032
	Total PCDD					2,3		1,8
	Total PCDF					24		3,5
	TEQ (WHO) (PCDDs and PCDFs)					27		5,3

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Salmon) **- lipid based -**

1	Country	Ireland								
	Year	2001								
	Clients Code	RES 2001/051								
	Sample No. (ERGO)	H-01-09-0229								
	Product									
	Tissue	Fish (Salmon)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	16,7								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			461	0,0001	0,046	
	Detection	HRGC/HRMS	PCB-	81			16	0,0001	0,0016	
	Accredited	**	PCB-	126			164	0,1	16	
	Uncertainty (%)		PCB-	169			24	0,01	0,24	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			10454	0,0001	1,0	
	Accredited	**	PCB-	114			539	0,0005	0,27	
	Uncertainty (%)		PCB-	118			27225	0,0001	2,7	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2740	0,0005	1,4	
			PCB-	157			966	0,0005	0,48	
			PCB-	167			1825	0,00001	0,018	
			PCB-	189			423	0,0001	0,042	
			Total non-ortho PCB					665		17
	Total mono-ortho PCB					44172		6,0		
	Total WHO-PCB					44837		23		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								28	
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	28			4,5			
	Accredited	**	PCB-	52			16			
	Uncertainty (%)		PCB-	101			37			
			PCB-	118			27			
			PCB-	138			72			
			PCB-	153			74			
			PCB-	180			21			
5			Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results	
	Methods	*	PCB-	18			1,5			
	Accredited	**	PCB-	31			3,0			
	Uncertainty (%)		PCB-	33			1,3			
			PCB-	37	0,072	0,036	< LOQ			
			PCB-	41			11			
			PCB-	44			7,7			
			PCB-	47			4,9			
			PCB-	49			5,6			
			PCB-	51			0,56			
			PCB-	60			4,0			
			PCB-	66			17			
			PCB-	74			12			
			PCB-	87			11			
			PCB-	99			21			
			PCB-	110			20			
			PCB-	141			5,7			
			PCB-	151			10			
			PCB-	183			4,9			
			PCB-	185			0,58			
			PCB-	187			16			
			PCB-	191			0,19			
			PCB-	193			1,7			
			PCB-	194			5,1			
			PCB-	201			3,3			
			PCB-	203			2,8			
			PCB-	206			1,1			
			PCB-	209			0,26			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress									
	(DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 353	
	Sample No. (ERGO)	H-01-09-0884	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsample		
	Fat content (%)	4,6	

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,60	1,0	0,60
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,69	1,0	0,69
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	1,3	0,65	< LOQ	0,065
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	1,3	0,65	< LOQ	0,065
			1.2.3.7.8.9-Hexa-CDD	1,3	0,65	< LOQ	0,065
			1.2.3.4.6.7.8-Hepta-CDD	1,9	1,0	< LOQ	0,010
			OCDD	5,7	2,8	< LOQ	0,0001 0,00028
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		17	0,1	1,7
	Accredited	**	1.2.3.7.8-Penta-CDF		1,4	0,05	0,070
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,9	0,5	0,97
			1.2.3.4.7.8-Hexa-CDF	1,3	0,65	< LOQ	0,065
			1.2.3.6.7.8-Hexa-CDF	1,3	0,65	< LOQ	0,065
			1.2.3.7.8.9-Hexa-CDF	1,3	0,65	< LOQ	0,065
			2.3.4.6.7.8-Hexa-CDF	1,3	0,65	< LOQ	0,065
			1.2.3.4.6.7.8-Hepta-CDF	1,7	0,87	< LOQ	0,0087
			1.2.3.4.7.8.9-Hepta-CDF	1,7	0,87	< LOQ	0,0087
			OCDF	3,9	2,0	< LOQ	0,0001 0,00020
	Total PCDD				1,3		1,5
	Total PCDF				20		3,0
	TEQ (WHO) (PCDDs and PCDFs)				21		4,5

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	ENV 2001 / 353								
	Sample No. (ERGO)	H-01-09-0884								
	Product									
	Tissue	Fish (Trout)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	4,6								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			317	0,0001	0,032	
	Detection	HRGC/HRMS	PCB-	81			14	0,0001	0,0014	
	Accredited	**	PCB-	126			130	0,1	13	
	Uncertainty (%)		PCB-	169			16	0,01	0,16	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			7477	0,0001	0,75	
	Accredited	**	PCB-	114			402	0,0005	0,20	
	Uncertainty (%)		PCB-	118			20093	0,0001	2,0	
			PCB-	123			n.a.	0,0001		
			PCB-	156			1966	0,0005	0,98	
			PCB-	157			598	0,0005	0,30	
			PCB-	167			1385	0,00001	0,014	
			PCB-	189			293	0,0001	0,029	
	Total non-ortho PCB						476	13		
	Total mono-ortho PCB						32216	4,3		
	Total WHO-PCB						32692	17		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								22	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
Methods		*	PCB-	28			5,0			
Accredited		**	PCB-	52			11			
Uncertainty (%)			PCB-	101			25			
		PCB-	118			20				
		PCB-	138			48				
		PCB-	153			50				
		PCB-	180			17				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			2,8			
	Accredited	**	PCB-	31			3,8			
	Uncertainty (%)		PCB-	33			1,9			
			PCB-	37	0,036	0,018	< LOQ			
			PCB-	41			9,1			
			PCB-	44			7,8			
			PCB-	47			3,4			
			PCB-	49			4,2			
			PCB-	51			0,22			
			PCB-	60			3,2			
			PCB-	66			12			
			PCB-	74			9,0			
			PCB-	87			7,5			
			PCB-	99			14			
			PCB-	110			15			
			PCB-	141			4,0			
			PCB-	151			8,2			
			PCB-	183			6,3			
			PCB-	185			0,58			
			PCB-	187			26			
			PCB-	191			0,16			
			PCB-	193			1,3			
			PCB-	194			2,3			
			PCB-	201			1,4			
			PCB-	203			1,2			
			PCB-	206			0,53			
			PCB-	209			0,16			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
** = Accreditation in progress										
(DACH 175/ERGO/20.06.00/00)										

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 354	
	Sample No. (ERGO)	H-01-09-0885	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamples		
	Fat content (%)	5,4	

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,53	1,0	0,53
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,73	1,0	0,73
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	1,1	0,56	< LOQ	0,1
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	1,1	0,56	< LOQ	0,1
			1.2.3.7.8.9-Hexa-CDD	1,1	0,56	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDD		0,91	0,01	0,0091
			OCDD	4,8	2,4	8,7	0,0001
							0,00087
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		15	0,1	1,5
	Accredited	**	1.2.3.7.8-Penta-CDF		1,3	0,05	0,064
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,8	0,5	0,89
			1.2.3.4.7.8-Hexa-CDF	1,1	0,56	< LOQ	0,1
			1.2.3.6.7.8-Hexa-CDF	1,1	0,56	< LOQ	0,1
			1.2.3.7.8.9-Hexa-CDF	1,1	0,56	< LOQ	0,1
			2.3.4.6.7.8-Hexa-CDF	1,1	0,56	< LOQ	0,1
			1.2.3.4.6.7.8-Hepta-CDF	1,5	0,74	< LOQ	0,01
			1.2.3.4.7.8.9-Hepta-CDF	1,5	0,74	< LOQ	0,01
			OCDF	3,3	1,7	< LOQ	0,0001
							0,00017
	Total PCDD				11		1,4
	Total PCDF				18		2,7
	TEQ (WHO) (PCDDs and PCDFs)				29		4,2

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	ENV 2001 / 354								
	Sample No. (ERGO)	H-01-09-0885								
	Product									
	Tissue	Fish (Trout)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
Fat content (%)	5,4									
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			272	0,0001	0,027	
	Detection	HRGC/HRMS	PCB-	81			12	0,0001	0,0012	
	Accredited	**	PCB-	126			108	0,1	11	
	Uncertainty (%)		PCB-	169			14	0,01	0,14	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			6199	0,0001	0,62	
	Accredited	**	PCB-	114			320	0,0005	0,16	
	Uncertainty (%)		PCB-	118			16669	0,0001	1,7	
			PCB-	123			n.a.	0,0001		
			PCB-	156			1894	0,0005	0,95	
			PCB-	157			529	0,0005	0,26	
			PCB-	167			1425	0,00001	0,014	
			PCB-	189			198	0,0001	0,020	
			Total non-ortho PCB						406	
	Total mono-ortho PCB						27234		3,7	
	Total WHO-PCB						27641		15	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)									19
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
Methods		*	PCB-	28			3,4			
Accredited		**	PCB-	52			8,1			
Uncertainty (%)			PCB-	101			19			
		PCB-	118			17				
		PCB-	138			38				
		PCB-	153			42				
		PCB-	180			11				
5		Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results		
	Methods	*	PCB-	18			2,0			
	Accredited	**	PCB-	31			2,9			
	Uncertainty (%)		PCB-	33			1,3			
			PCB-	37	0,029	0,014	< LOQ			
			PCB-	41			3,8			
			PCB-	44			3,9			
			PCB-	47			2,4			
			PCB-	49			3,2			
			PCB-	51			0,15			
			PCB-	60			1,5			
			PCB-	66			6,2			
			PCB-	74			4,7			
			PCB-	87			6,5			
			PCB-	99			10			
			PCB-	110			13			
			PCB-	141			3,5			
			PCB-	151			6,7			
			PCB-	183			3,2			
			PCB-	185			0,31			
			PCB-	187			13			
			PCB-	191			0,14			
			PCB-	193			1,2			
			PCB-	194			1,5			
			PCB-	201			1,9			
			PCB-	203			1,8			
			PCB-	206			0,42			
	PCB-	209			0,20					
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Trout)
- lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 355	
	Sample No. (ERGO)	H-01-09-0886	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamples		
	Fat content (%)	8,2	

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,46	1,0	0,46
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			0,54	1,0	0,54
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,73	0,37	< LOQ	0,1	0,037
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,73	0,37	< LOQ	0,1	0,037
			1.2.3.7.8.9-Hexa-CDD	0,73	0,37	< LOQ	0,1	0,037
			1.2.3.4.6.7.8-Hepta-CDD	0,98	0,49	< LOQ	0,01	0,0049
			OCDD	3,2	1,6	< LOQ	0,0001	0,00016
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			13	0,1	1,3
	Accredited	**	1.2.3.7.8-Penta-CDF			0,92	0,05	0,046
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			1,3	0,5	0,65
			1.2.3.4.7.8-Hexa-CDF	0,73	0,37	< LOQ	0,1	0,037
			1.2.3.6.7.8-Hexa-CDF	0,73	0,37	< LOQ	0,1	0,037
			1.2.3.7.8.9-Hexa-CDF	0,73	0,37	< LOQ	0,1	0,037
			2.3.4.6.7.8-Hexa-CDF	0,73	0,37	< LOQ	0,1	0,037
			1.2.3.4.6.7.8-Hepta-CDF	0,98	0,49	< LOQ	0,01	0,0049
			1.2.3.4.7.8.9-Hepta-CDF	0,98	0,49	< LOQ	0,01	0,0049
			OCDF	2,2	1,1	< LOQ	0,0001	0,00011
	Total PCDD					1,00		1,1
	Total PCDF					15		2,1
	TEQ (WHO) (PCDDs and PCDFs)					16		3,2

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland										
	Year	2001										
	Clients Code	ENV 2001 / 355										
	Sample No. (ERGO)	H-01-09-0886										
	Product											
	Tissue	Fish (Trout)										
	Expression of results											
	Stage of marketing											
	Type of sampling											
	Sample No.											
	Area											
	Number of subsamples											
	Fat content (%)	8,2										
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	77			214	0,0001	0,021			
	Detection	HRGC/HRMS	PCB-	81			11	0,0001	0,0011			
	Accredited	**	PCB-	126			90	0,1	9,0			
	Uncertainty (%)		PCB-	169			10	0,01	0,10			
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	105			6161	0,0001	0,62			
	Accredited	**	PCB-	114			317	0,0005	0,16			
	Uncertainty (%)		PCB-	118			15248	0,0001	1,5			
			PCB-	123			n.a.	0,0001				
			PCB-	156			1677	0,0005	0,84			
			PCB-	157			470	0,0005	0,23			
			PCB-	167			1176	0,00001	0,012			
			PCB-	189			168	0,0001	0,017			
	Total non-ortho PCB						325	9,1				
	Total mono-ortho PCB						25216	3,4				
	Total WHO-PCB						25541	13				
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							16				
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results				
Methods		*	PCB-	28			3,7					
Accredited		**	PCB-	52			7,2					
Uncertainty (%)			PCB-	101			17					
		PCB-	118			15						
		PCB-	138			34						
		PCB-	153			38						
		PCB-	180			9,7						
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results					
	Methods	*	PCB-	18			2,6					
	Accredited	**	PCB-	31			2,6					
	Uncertainty (%)		PCB-	33			1,4					
			PCB-	37			0,061					
			PCB-	41			3,3					
			PCB-	44			3,6					
			PCB-	47			2,0					
			PCB-	49			2,6					
			PCB-	51			0,15					
			PCB-	60			1,5					
			PCB-	66			5,7					
			PCB-	74			4,2					
			PCB-	87			6,1					
			PCB-	99			9,1					
			PCB-	110			12					
			PCB-	141			3,0					
			PCB-	151			6,6					
			PCB-	183			2,3					
			PCB-	185			0,23					
			PCB-	187			9,6					
			PCB-	191			0,11					
			PCB-	193			0,87					
			PCB-	194			1,1					
			PCB-	201			1,3					
			PCB-	203			1,2					
			PCB-	206			0,25					
			PCB-	209			0,091					
			Small differences on totals result from computerroundings									
			* = see report, section "Methods"									
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)												

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 356	
	Sample No. (ERGO)	H-01-09-0887	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamples		
	Fat content (%)	4	

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,53	1,0	0,53
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD	1,5	0,75	< LOQ	1,0	0,75
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	1,5	0,75	< LOQ	0,1	0,075
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	1,5	0,75	< LOQ	0,1	0,075
			1.2.3.7.8.9-Hexa-CDD	1,5	0,75	< LOQ	0,1	0,075
			1.2.3.4.6.7.8-Hepta-CDD	2,0	1,0	< LOQ	0,01	0,010
			OCDD	5,5	2,8	< LOQ	0,0001	0,00028
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			15	0,1	1,5
	Accredited	**	1.2.3.7.8-Penta-CDF			1,1	0,05	0,057
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			1,6	0,5	0,82
			1.2.3.4.7.8-Hexa-CDF	1,5	0,75	< LOQ	0,1	0,075
			1.2.3.6.7.8-Hexa-CDF	1,5	0,75	< LOQ	0,1	0,075
			1.2.3.7.8.9-Hexa-CDF	1,5	0,75	< LOQ	0,1	0,075
			2.3.4.6.7.8-Hexa-CDF	1,5	0,75	< LOQ	0,1	0,075
			1.2.3.4.6.7.8-Hepta-CDF	2,0	1,0	< LOQ	0,01	0,010
			1.2.3.4.7.8.9-Hepta-CDF	2,0	1,0	< LOQ	0,01	0,010
			OCDF	4,0	2,0	< LOQ	0,0001	0,00020
	Total PCDD					0,53		1,5
	Total PCDF					18		2,7
	TEQ (WHO) (PCDDs and PCDFs)					18		4,2

Small differences on totals result from computerroundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	ENV 2001 / 356								
	Sample No. (ERGO)	H-01-09-0887								
	Product									
	Tissue	Fish (Trout)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	4								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			283	0,0001	0,028	
	Detection	HRGC/HRMS	PCB-	81			13	0,0001	0,0013	
	Accredited	**	PCB-	126			110	0,1	11	
	Uncertainty (%)		PCB-	169			14	0,01	0,14	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			6398	0,0001	0,64	
	Accredited	**	PCB-	114			337	0,0005	0,17	
	Uncertainty (%)		PCB-	118			17368	0,0001	1,7	
			PCB-	123			n.a.	0,0001		
			PCB-	156			1828	0,0005	0,91	
			PCB-	157			566	0,0005	0,28	
			PCB-	167			1387	0,00001	0,014	
			PCB-	189			209	0,0001	0,021	
	Total non-ortho PCB						420	11		
	Total mono-ortho PCB						28092	3,8		
	Total WHO-PCB						28512	15		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							19		
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			3,5		
Accredited		**	PCB-	52			7,8			
Uncertainty (%)			PCB-	101			19			
		PCB-	118			17				
		PCB-	138			39				
		PCB-	153			44				
		PCB-	180			12				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			2,1			
	Accredited	**	PCB-	31			2,9			
	Uncertainty (%)		PCB-	33			1,3			
			PCB-	37			0,10			
			PCB-	41			3,5			
			PCB-	44			3,4			
			PCB-	47			2,8			
			PCB-	49			3,0			
			PCB-	51			0,27			
			PCB-	60			1,5			
			PCB-	66			5,7			
			PCB-	74			4,2			
			PCB-	87			6,6			
			PCB-	99			11			
			PCB-	110			13			
			PCB-	141			3,3			
			PCB-	151			6,7			
			PCB-	183			2,9			
			PCB-	185			0,29			
			PCB-	187			12			
			PCB-	191			0,15			
			PCB-	193			1,2			
			PCB-	194			1,4			
			PCB-	201			1,9			
			PCB-	203			1,8			
			PCB-	206			0,55			
			PCB-	209			0,22			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 357	
	Sample No. (ERGO)	H-01-09-0888	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamples		
	Fat content (%)	6,2	

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,45	1,0	0,45
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		0,54	1,0	0,54
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,97	0,48	< LOQ	0,048
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,97	0,48	< LOQ	0,048
			1.2.3.7.8.9-Hexa-CDD	0,97	0,48	< LOQ	0,048
			1.2.3.4.6.7.8-Hepta-CDD	1,4	0,69	< LOQ	0,0069
			OCDD	4,2	2,1	< LOQ	0,0001
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		14	0,1	1,4
	Accredited	**	1.2.3.7.8-Penta-CDF		0,99	0,05	0,050
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		1,4	0,5	0,72
			1.2.3.4.7.8-Hexa-CDF	0,97	0,48	< LOQ	0,048
			1.2.3.6.7.8-Hexa-CDF	0,97	0,48	< LOQ	0,048
			1.2.3.7.8.9-Hexa-CDF	0,97	0,48	< LOQ	0,048
			2.3.4.6.7.8-Hexa-CDF	0,97	0,48	< LOQ	0,048
			1.2.3.4.6.7.8-Hepta-CDF	1,3	0,65	< LOQ	0,0065
			1.2.3.4.7.8.9-Hepta-CDF	1,3	0,65	< LOQ	0,0065
			OCDF	2,9	1,5	< LOQ	0,0001
	Total PCDD				0,99		1,1
	Total PCDF				17		2,4
	TEQ (WHO) (PCDDs and PCDFs)				18		3,5

Small differences on totals result from computerroundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland							
	Year	2001							
	Clients Code	ENV 2001 / 357							
	Sample No. (ERGO)	H-01-09-0888							
	Product								
	Tissue	Fish (Trout)							
	Expression of results								
	Stage of marketing								
	Type of sampling								
	Sample No.								
	Area								
	Number of subsamples								
	Fat content (%)	6,2							
2	non-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77		244	0,0001	0,024	
	Detection	HRGC/HRMS	PCB-	81		11	0,0001	0,0011	
	Accredited	**	PCB-	126		96	0,1	9,6	
	Uncertainty (%)		PCB-	169		12	0,01	0,12	
3	mono-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105		6214	0,0001	0,62	
	Accredited	**	PCB-	114		335	0,0005	0,17	
	Uncertainty (%)		PCB-	118		15890	0,0001	1,6	
			PCB-	123		n.a.	0,0001		
			PCB-	156		1669	0,0005	0,83	
			PCB-	157		497	0,0005	0,25	
			PCB-	167		1119	0,00001	0,011	
			PCB-	189		182	0,0001	0,018	
	Total non-ortho PCB					363		9,8	
	Total mono-ortho PCB					25907		3,5	
	Total WHO-PCB					26270		13	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							17	
	4	PCB-7 (6) (ppb)		PCB congeners	LOQ	LOD	Results		
		Methods	*	PCB-	28		2,9		
Accredited		**	PCB-	52		7,5			
Uncertainty (%)			PCB-	101		18			
			PCB-	118		16			
			PCB-	138		35			
			PCB-	153		40			
			PCB-	180		11			
5	Other PCBs (ppb)		PCB congeners	LOQ	LOD	Results			
	Methods	*	PCB-	18		1,5			
	Accredited	**	PCB-	31		2,2			
	Uncertainty (%)		PCB-	33		0,73			
			PCB-	37		0,027			
			PCB-	41		3,4			
			PCB-	44		3,5			
			PCB-	47		2,0			
			PCB-	49		2,8			
			PCB-	51		0,100			
			PCB-	60		1,3			
			PCB-	66		6,0			
			PCB-	74		4,7			
			PCB-	87		6,0			
			PCB-	99		10			
			PCB-	110		11			
			PCB-	141		3,0			
			PCB-	151		6,2			
			PCB-	183		2,9			
			PCB-	185		0,26			
			PCB-	187		12			
			PCB-	191		0,13			
			PCB-	193		0,99			
			PCB-	194		1,4			
			PCB-	201		1,9			
			PCB-	203		1,8			
			PCB-	206		0,43			
			PCB-	209		0,17			

Small differences on totals result from computerroundings
* = see report, section "Methods"
** = Accreditation in progress
(DACH 175/ERGO/20.06.00/00)

Small differences on totals result from
computer roundings

* = see report, section "Methods"

** = Accreditation in progress

(DACH 175/ERGO/20.06.00/00)

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 358	
	Sample No. (ERGO)	H-01-09-0889	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamples		
	Fat content (%)	6	

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	2.3.7.8-Tetra-CDD			0,52	1,0	0,52
	Detection	1.2.3.7.8-Penta-CDD			0,54	1,0	0,54
	Accredited	1.2.3.4.7.8-Hexa-CDD	1,0	0,50	< LOQ	0,1	0,050
	Uncertainty (%)	1.2.3.6.7.8-Hexa-CDD	1,0	0,50	< LOQ	0,1	0,050
		1.2.3.7.8.9-Hexa-CDD	1,0	0,50	< LOQ	0,1	0,050
		1.2.3.4.6.7.8-Hepta-CDD	1,4	0,69	< LOQ	0,01	0,0069
		OCDD	4,3	2,2	< LOQ	0,0001	0,00022
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	2.3.7.8-Tetra-CDF			14	0,1	1,4
	Accredited	1.2.3.7.8-Penta-CDF			0,96	0,05	0,048
	Uncertainty (%)	2.3.4.7.8-Penta-CDF			1,2	0,5	0,61
		1.2.3.4.7.8-Hexa-CDF	1,0	0,50	< LOQ	0,1	0,050
		1.2.3.6.7.8-Hexa-CDF	1,0	0,50	< LOQ	0,1	0,050
		1.2.3.7.8.9-Hexa-CDF	1,0	0,50	< LOQ	0,1	0,050
		2.3.4.6.7.8-Hexa-CDF	1,0	0,50	< LOQ	0,1	0,050
		1.2.3.4.6.7.8-Hepta-CDF	1,3	0,67	< LOQ	0,01	0,0067
		1.2.3.4.7.8.9-Hepta-CDF	1,3	0,67	< LOQ	0,01	0,0067
		OCDF			1,5	0,0001	0,00015
	Total PCDD				1,1		1,2
	Total PCDF				18		2,3
	TEQ (WHO) (PCDDs and PCDFs)				19		3,5

Small differences on totals result from computerroundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland							
	Year	2001							
	Clients Code	ENV 2001 / 358							
	Sample No. (ERGO)	H-01-09-0889							
	Product								
	Tissue	Fish (Trout)							
	Expression of results								
	Stage of marketing								
	Type of sampling								
	Sample No.								
	Area								
	Number of subsamples								
	Fat content (%)	6							
2	non-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB- 77			257	0,0001	0,026	
	Detection	HRGC/HRMS	PCB- 81			12	0,0001	0,0012	
	Accredited	**	PCB- 126			104	0,1	10	
	Uncertainty (%)		PCB- 169			12	0,01	0,12	
3	mono-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB- 105			6437	0,0001	0,64	
	Accredited	**	PCB- 114			349	0,0005	0,17	
	Uncertainty (%)		PCB- 118			17314	0,0001	1,7	
			PCB- 123			n.a.	0,0001		
			PCB- 156			1716	0,0005	0,86	
			PCB- 157			505	0,0005	0,25	
			PCB- 167			1401	0,00001	0,014	
			PCB- 189			177	0,0001	0,018	
	Total non-ortho PCB					385		11	
	Total mono-ortho PCB					27900		3,7	
	Total WHO-PCB					28284		14	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							18	
	4	PCB-7 (6) (ppb)		PCB congeners	LOQ	LOD	Results		
		Methods	*	PCB- 28			3,2		
Accredited		**	PCB- 52			8,0			
Uncertainty (%)			PCB- 101			20			
			PCB- 118			17			
			PCB- 138			38			
			PCB- 153			41			
			PCB- 180			11			
5	Other PCBs (ppb)		PCB congeners	LOQ	LOD	Results			
	Methods	*	PCB- 18			1,7			
	Accredited	**	PCB- 31			2,6			
	Uncertainty (%)		PCB- 33			0,97			
			PCB- 37			0,052			
			PCB- 41			3,7			
			PCB- 44			3,8			
			PCB- 47			2,3			
			PCB- 49			3,1			
			PCB- 51			0,11			
			PCB- 60			1,5			
			PCB- 66			6,3			
			PCB- 74			4,9			
			PCB- 87			7,2			
			PCB- 99			11			
			PCB- 110			14			
			PCB- 141			3,5			
			PCB- 151			7,3			
			PCB- 183			2,9			
			PCB- 185			0,30			
			PCB- 187			11			
			PCB- 191			0,14			
			PCB- 193			1,1			
			PCB- 194			1,4			
			PCB- 201			2,1			
			PCB- 203			1,9			
			PCB- 206			0,47			
			PCB- 209			0,26			
	Small differences on totals result from computerroundings								
	* = see report, section "Methods"								
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland
	Year	2001
	Clients Code	ENV 2001 / 359
	Sample No. (ERGO)	H-01-09-0890
	Product	
	Tissue	Fish (Trout)
	Expression of results	
	Stage of marketing	
	Type of sampling	
	Sample No.	
	Area	
	Number of subsamples	
	Fat content (%)	7,1

Remarks

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,58	1,0	0,58
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			0,69	1,0	0,69
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,85	0,42	< LOQ	0,1	0,042
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	0,85	0,42	< LOQ	0,1	0,042
			1.2.3.7.8.9-Hexa-CDD	0,85	0,42	< LOQ	0,1	0,042
			1.2.3.4.6.7.8-Hepta-CDD	1,1	0,56	< LOQ	0,01	0,0056
			OCDD	3,7	1,8	< LOQ	0,0001	0,00018
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			17	0,1	1,7
	Accredited	**	1.2.3.7.8-Penta-CDF			1,4	0,05	0,072
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			1,9	0,5	0,93
			1.2.3.4.7.8-Hexa-CDF	0,85	0,42	< LOQ	0,1	0,042
			1.2.3.6.7.8-Hexa-CDF	0,85	0,42	< LOQ	0,1	0,042
			1.2.3.7.8.9-Hexa-CDF	0,85	0,42	< LOQ	0,1	0,042
			2.3.4.6.7.8-Hexa-CDF	0,85	0,42	< LOQ	0,1	0,042
			1.2.3.4.6.7.8-Hepta-CDF	1,1	0,56	< LOQ	0,01	0,0056
			1.2.3.4.7.8.9-Hepta-CDF	1,1	0,56	< LOQ	0,01	0,0056
			OCDF	2,5	1,3	< LOQ	0,0001	0,00013
	Total PCDD					1,3		1,4
	Total PCDF					20		2,9
	TEQ (WHO) (PCDDs and PCDFs)					21		4,3

Small differences on totals result from computerroundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland										
	Year	2001										
	Clients Code	ENV 2001 / 359										
	Sample No. (ERGO)	H-01-09-0890										
	Product											
	Tissue	Fish (Trout)										
	Expression of results											
	Stage of marketing											
	Type of sampling											
	Sample No.											
	Area											
	Number of subsamples											
	Fat content (%)	7,1										
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	77			277	0,0001	0,028			
	Detection	HRGC/HRMS	PCB-	81			12	0,0001	0,0012			
	Accredited	**	PCB-	126			126	0,1	13			
	Uncertainty (%)		PCB-	169			16	0,01	0,16			
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	105			7535	0,0001	0,75			
	Accredited	**	PCB-	114			384	0,0005	0,19			
	Uncertainty (%)		PCB-	118			19689	0,0001	2,0			
			PCB-	123			n.a.	0,0001				
			PCB-	156			2014	0,0005	1,0			
			PCB-	157			609	0,0005	0,30			
			PCB-	167			1415	0,00001	0,014			
			PCB-	189			209	0,0001	0,021			
	Total non-ortho PCB						431	13				
	Total mono-ortho PCB						31856	4,3				
	Total WHO-PCB						32287	17				
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								21			
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results				
Methods		*	PCB-	28			3,7					
Accredited		**	PCB-	52			9,4					
Uncertainty (%)			PCB-	101			22					
		PCB-	118			20						
		PCB-	138			44						
		PCB-	153			48						
		PCB-	180			12						
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results					
	Methods	*	PCB-	18			1,8					
	Accredited	**	PCB-	31			2,6					
	Uncertainty (%)		PCB-	33			0,93					
			PCB-	37			0,098					
			PCB-	41			4,5					
			PCB-	44			4,4					
			PCB-	47			2,5					
			PCB-	49			3,5					
			PCB-	51			0,12					
			PCB-	60			1,8					
			PCB-	66			7,6					
			PCB-	74			5,7					
			PCB-	87			7,6					
			PCB-	99			13					
			PCB-	110			14					
			PCB-	141			3,6					
			PCB-	151			7,3					
			PCB-	183			2,4					
			PCB-	185			0,22					
			PCB-	187			9,9					
			PCB-	191			0,14					
			PCB-	193			1,1					
			PCB-	194			1,5					
			PCB-	201			2,1					
			PCB-	203			1,9					
			PCB-	206			0,30					
			PCB-	209			0,12					
			Small differences on totals result from computerroundings									
			* = see report, section "Methods"									
** = Accreditation in progress												
(DACH 175/ERGO/20.06.00/00)												

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 360	
	Sample No. (ERGO)	H-01-09-0891	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamples		
	Fat content (%)	5,7	

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,64	1,0	0,64
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			0,66	1,0	0,66
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	1,1	0,53	< LOQ	0,1	0,053
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD	1,1	0,53	< LOQ	0,1	0,053
			1.2.3.7.8.9-Hexa-CDD	1,1	0,53	< LOQ	0,1	0,053
			1.2.3.4.6.7.8-Hepta-CDD	1,5	0,73	< LOQ	0,01	0,0073
			OCDD	4,36	2,182	< LOQ	0,0001	0,0002
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			16	0,1	1,6
	Accredited	**	1.2.3.7.8-Penta-CDF			1,1	0,05	0,053
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			1,7	0,5	0,85
			1.2.3.4.7.8-Hexa-CDF	1,1	0,53	< LOQ	0,1	0,053
			1.2.3.6.7.8-Hexa-CDF	1,1	0,53	< LOQ	0,1	0,053
			1.2.3.7.8.9-Hexa-CDF	1,1	0,53	< LOQ	0,1	0,053
			2.3.4.6.7.8-Hexa-CDF	1,1	0,53	< LOQ	0,1	0,053
			1.2.3.4.6.7.8-Hepta-CDF	1,4	0,70	< LOQ	0,01	0,0070
			1.2.3.4.7.8.9-Hepta-CDF	1,4	0,70	< LOQ	0,01	0,0070
			OCDF	3,2	1,6	< LOQ	0,0001	0,00016
	Total PCDD					1,3		1,5
	Total PCDF					19		2,7
	TEQ (WHO) (PCDDs and PCDFs)					20		4,2

Small differences on totals result from computerroundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland							
	Year	2001							
	Clients Code	ENV 2001 / 360							
	Sample No. (ERGO)	H-01-09-0891							
	Product								
	Tissue	Fish (Trout)							
	Expression of results								
	Stage of marketing								
	Type of sampling								
	Sample No.								
	Area								
	Number of subsamples								
	Fat content (%)	5,7							
2	non-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77		269	0,0001	0,027	
	Detection	HRGC/HRMS	PCB-	81		12	0,0001	0,0012	
	Accredited	**	PCB-	126		115	0,1	12	
	Uncertainty (%)		PCB-	169		13	0,01	0,13	
3	mono-ortho PCBs (ppt)		PCB congeners	LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105		7006	0,0001	0,70	
	Accredited	**	PCB-	114		367	0,0005	0,18	
	Uncertainty (%)		PCB-	118		18932	0,0001	1,9	
			PCB-	123		n.a.	0,0001		
			PCB-	156		1969	0,0005	0,98	
			PCB-	157		607	0,0005	0,30	
			PCB-	167		1358	0,00001	0,014	
			PCB-	189		209	0,0001	0,021	
			Total non-ortho PCB				410		12
	Total mono-ortho PCB				30448		4,1		
	Total WHO-PCB				30858		16		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							20	
	4	PCB-7 (6) (ppb)		PCB congeners	LOQ	LOD	Results		
		Methods	*	PCB-	28		3,7		
		Accredited	**	PCB-	52		9,1		
		Uncertainty (%)		PCB-	101		21		
			PCB-	118		19			
			PCB-	138		42			
			PCB-	153		48			
			PCB-	180		13			
	5		Other PCBs (ppb)		PCB congeners	LOQ	LOD	Results	
Methods		*	PCB-	18		1,8			
Accredited		**	PCB-	31		2,6			
Uncertainty (%)			PCB-	33		0,88			
			PCB-	37	0,027	0,014	< LOQ		
			PCB-	41			3,6		
			PCB-	44			3,5		
			PCB-	47			2,2		
			PCB-	49			3,3		
			PCB-	51			0,13		
			PCB-	60			1,6		
			PCB-	66			7,0		
			PCB-	74			5,1		
			PCB-	87			7,0		
			PCB-	99			12		
			PCB-	110			14		
			PCB-	141			3,7		
			PCB-	151			7,1		
			PCB-	183			3,5		
			PCB-	185			0,34		
			PCB-	187			14		
			PCB-	191			0,20		
			PCB-	193			1,4		
			PCB-	194			1,5		
			PCB-	201			2,4		
			PCB-	203			2,3		
			PCB-	206			0,52		
			PCB-	209			0,25		
Small differences on totals result from computerroundings									
* = see report, section "Methods"									
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 361	
	Sample No. (ERGO)	H-01-09-0892	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamples		
	Fat content (%)	5,8	

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,87	1,0	0,87
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,1	1,0	1,1
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	1,0	0,52	< LOQ	0,052
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD		0,59	0,1	0,059
			1.2.3.7.8.9-Hexa-CDD	1,0	0,52	< LOQ	0,052
			1.2.3.4.6.7.8-Hepta-CDD		0,77	0,01	0,0077
			OCDD	4,3	2,1	< LOQ	0,0001
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		17	0,1	1,7
	Accredited	**	1.2.3.7.8-Penta-CDF		1,7	0,05	0,085
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		3,7	0,5	1,9
			1.2.3.4.7.8-Hexa-CDF	1,0	0,52	< LOQ	0,052
			1.2.3.6.7.8-Hexa-CDF	1,0	0,52	< LOQ	0,052
			1.2.3.7.8.9-Hexa-CDF	1,0	0,52	< LOQ	0,052
			2.3.4.6.7.8-Hexa-CDF	1,0	0,52	< LOQ	0,052
			1.2.3.4.6.7.8-Hepta-CDF	1,4	0,69	< LOQ	0,0069
			1.2.3.4.7.8.9-Hepta-CDF	1,4	0,69	< LOQ	0,0069
			OCDF	3,0	1,5	< LOQ	0,0001
	Total PCDD				3,3		2,1
	Total PCDF				23		3,9
	TEQ (WHO) (PCDDs and PCDFs)				26		6,0

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland										
	Year	2001										
	Clients Code	ENV 2001 / 361										
	Sample No. (ERGO)	H-01-09-0892										
	Product											
	Tissue	Fish (Trout)										
	Expression of results											
	Stage of marketing											
	Type of sampling											
	Sample No.											
	Area											
	Number of subsamples											
	Fat content (%)	5.8										
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	77			389	0,0001	0,039			
	Detection	HRGC/HRMS	PCB-	81			17	0,0001	0,0017			
	Accredited	**	PCB-	126			142	0,1	14			
	Uncertainty (%)		PCB-	169			17	0,01	0,17			
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	105			6620	0,0001	0,66			
	Accredited	**	PCB-	114			286	0,0005	0,14			
	Uncertainty (%)		PCB-	118			18682	0,0001	1,9			
			PCB-	123			n.a.	0,0001				
			PCB-	156			1931	0,0005	0,97			
			PCB-	157			567	0,0005	0,28			
			PCB-	167			1375	0,00001	0,014			
			PCB-	189			201	0,0001	0,020			
	Total non-ortho PCB						565	14				
	Total mono-ortho PCB						29662	4,0				
	Total WHO-PCB						30227	18				
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							24				
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results				
Methods		*	PCB-	28			3,6					
Accredited		**	PCB-	52			8,5					
Uncertainty (%)			PCB-	101			23					
		PCB-	118			19						
		PCB-	138			44						
		PCB-	153			45						
		PCB-	180			8,7						
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results					
	Methods	*	PCB-	18			1,8					
	Accredited	**	PCB-	31			2,7					
	Uncertainty (%)		PCB-	33			0,77					
			PCB-	37	0,027	0,013	< LOQ					
			PCB-	41			3,6					
			PCB-	44			3,8					
			PCB-	47			2,4					
			PCB-	49			3,4					
			PCB-	51			0,15					
			PCB-	60			1,8					
			PCB-	66			8,2					
			PCB-	74			5,6					
			PCB-	87			6,7					
			PCB-	99			12					
			PCB-	110			15					
			PCB-	141			2,8					
			PCB-	151			7,2					
			PCB-	183			2,0					
			PCB-	185			0,19					
			PCB-	187			9,1					
			PCB-	191			0,17					
			PCB-	193			1,1					
			PCB-	194			0,80					
			PCB-	201			1,1					
			PCB-	203			1,2					
			PCB-	206			0,22					
			PCB-	209			0,15					
			Small differences on totals result from computerroundings									
			* = see report, section "Methods"									
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)												

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 362	
	Sample No. (ERGO)	H-01-09-0893	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamples		
	Fat content (%)	6.8	

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			1,0	1,0	1,0
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			1,3	1,0	1,3
	Accredited	**	1.2.3.4.7.8-Hexa-CDD	0,88	0,44	< LOQ	0,1	0,044
	Uncertainty (%)		1.2.3.6.7.8-Hexa-CDD			0,61	0,1	0,061
			1.2.3.7.8.9-Hexa-CDD	0,88	0,44	< LOQ	0,1	0,044
			1.2.3.4.6.7.8-Hepta-CDD	1,3	0,64	< LOQ	0,01	0,0064
			OCDD	3,8	1,9	< LOQ	0,0001	0,00019
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			19	0,1	1,9
	Accredited	**	1.2.3.7.8-Penta-CDF			1,8	0,05	0,088
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			4,0	0,5	2,0
			1.2.3.4.7.8-Hexa-CDF	0,88	0,44	< LOQ	0,1	0,044
			1.2.3.6.7.8-Hexa-CDF	0,88	0,44	< LOQ	0,1	0,044
			1.2.3.7.8.9-Hexa-CDF	0,88	0,44	< LOQ	0,1	0,044
			2.3.4.6.7.8-Hexa-CDF	0,88	0,44	< LOQ	0,1	0,044
			1.2.3.4.6.7.8-Hepta-CDF	1,2	0,59	< LOQ	0,01	0,0059
			1.2.3.4.7.8.9-Hepta-CDF	1,2	0,59	< LOQ	0,01	0,0059
			OCDF	2,6	1,3	< LOQ	0,0001	0,00013
	Total PCDD					3,0		2,5
Total PCDF					25		4,2	
TEQ (WHO) (PCDDs and PCDFs)					28		6,7	

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	ENV 2001 / 362								
	Sample No. (ERGO)	H-01-09-0893								
	Product									
	Tissue	Fish (Trout)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	6.8								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			437	0,0001	0,044	
	Detection	HRGC/HRMS	PCB-	81			18	0,0001	0,0018	
	Accredited	**	PCB-	126			161	0,1	16	
	Uncertainty (%)		PCB-	169			20	0,01	0,20	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			7859	0,0001	0,79	
	Accredited	**	PCB-	114			340	0,0005	0,17	
	Uncertainty (%)		PCB-	118			21343	0,0001	2,1	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2400	0,0005	1,2	
			PCB-	157			621	0,0005	0,31	
			PCB-	167			1674	0,00001	0,017	
			PCB-	189			229	0,0001	0,023	
	Total non-ortho PCB						636	16		
	Total mono-ortho PCB						34466	4,6		
	Total WHO-PCB						35102	21		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								28	
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
Methods		*	PCB-	28			4,3			
Accredited		**	PCB-	52			9,7			
Uncertainty (%)			PCB-	101			25			
		PCB-	118			21				
		PCB-	138			51				
		PCB-	153			54				
		PCB-	180			10				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			2,1			
	Accredited	**	PCB-	31			3,0			
	Uncertainty (%)		PCB-	33			0,78			
	Small differences on totals result from computerroundings * = see report, section "Methods" ** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)		PCB-	37			0,024			
			PCB-	41			4,4			
			PCB-	44			4,4			
			PCB-	47			2,7			
			PCB-	49			3,9			
			PCB-	51			0,16			
			PCB-	60			1,6			
			PCB-	66			7,9			
			PCB-	74			5,4			
			PCB-	87			7,7			
			PCB-	99			14			
			PCB-	110			17			
			PCB-	141			3,0			
			PCB-	151			8,4			
			PCB-	183			2,2			
			PCB-	185			0,23			
			PCB-	187			9,7			
			PCB-	191			0,16			
			PCB-	193			1,3			
			PCB-	194			1,0			
			PCB-	201			1,3			
			PCB-	203			1,4			
			PCB-	206			0,30			
			PCB-	209			0,20			

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 363	
	Sample No. (ERGO)	H-01-09-0894	
	Product		
	Tissue	Fish (Trout)	
	Expression of results		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamp		
	Fat content (%)	4,4	

2	PCDDs (ppt)	PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD		0,99	1,0	0,99
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD		1,4	1,0	1,4
	Accredited	**	2.3.4.7.8-Hexa-CDD	1,4	0,68	< LOQ	0,1
	Uncertainty (%)		2.3.6.7.8-Hexa-CDD	1,4	0,68	< LOQ	0,1
			2.3.7.8.9-Hexa-CDD	1,4	0,68	< LOQ	0,1
			3.4.6.7.8-Hepta-CDD	1,8	0,91	< LOQ	0,01
			OCDD	5,5	2,7	< LOQ	0,0001
3	PCDFs (ppt)	PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF		16	0,1	1,6
	Accredited	**	1.2.3.7.8-Penta-CDF		1,8	0,05	0,088
	Uncertainty (%)		2.3.4.7.8-Penta-CDF		4,1	0,5	2,1
			2.3.4.7.8-Hexa-CDF	1,4	0,68	< LOQ	0,1
			2.3.6.7.8-Hexa-CDF	1,4	0,68	< LOQ	0,1
			2.3.7.8.9-Hexa-CDF	1,4	0,68	< LOQ	0,1
			2.3.4.6.7.8-Hexa-CDF	1,4	0,68	< LOQ	0,1
			3.4.6.7.8-Hepta-CDF	1,8	0,91	< LOQ	0,01
			3.4.7.8.9-Hepta-CDF	1,8	0,91	< LOQ	0,01
			OCDF	3,6	1,8	< LOQ	0,0001
	Total PCDD				2,4		2,6
	Total PCDF				22		4,1
	TEQ (WHO) (PCDDs and PCDFs)				25		6,7

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	ENV 2001 / 363								
	Sample No. (ERGO)	H-01-09-0894								
	Product									
	Tissue	Fish (Trout)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	4,4								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			464	0,0001	0,046	
	Detection	HRGC/HRMS	PCB-	81			20	0,0001	0,0020	
	Accredited	**	PCB-	126			173	0,1	17	
	Uncertainty (%)		PCB-	169			20	0,01	0,20	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			8042	0,0001	0,80	
	Accredited	**	PCB-	114			365	0,0005	0,18	
	Uncertainty (%)		PCB-	118			24140	0,0001	2,4	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2492	0,0005	1,2	
			PCB-	157			670	0,0005	0,33	
			PCB-	167			1853	0,00001	0,019	
			PCB-	189			264	0,0001	0,026	
			Total non-ortho PCB					677	18	
	Total mono-ortho PCB					37825	5,0			
	Total WHO-PCB					38502	23			
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							29		
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
Methods		*	PCB-	28			4,1			
Accredited		**	PCB-	52			11			
Uncertainty (%)			PCB-	101			28			
			PCB-	118			24			
			PCB-	138			55			
			PCB-	153			60			
			PCB-	180			12			
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			2,1			
	Accredited	**	PCB-	31			3,4			
	Uncertainty (%)		PCB-	33			0,67			
			PCB-	37	0,034	0,017	< LOQ			
			PCB-	41			4,4			
			PCB-	44			4,7			
			PCB-	47			2,8			
			PCB-	49			4,2			
			PCB-	51			0,21			
			PCB-	60			1,7			
			PCB-	66			8,7			
			PCB-	74			5,9			
			PCB-	87			8,1			
			PCB-	99			16			
			PCB-	110			20			
			PCB-	141			3,9			
			PCB-	151			9,4			
			PCB-	183			3,5			
			PCB-	185			0,34			
			PCB-	187			15			
			PCB-	191			0,17			
			PCB-	193			1,3			
			PCB-	194			1,3			
			PCB-	201			1,4			
			PCB-	203			1,5			
			PCB-	206			0,40			
			PCB-	209			0,33			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 364	
	Sample No. (ERGO)	H-01-09-0895	
	Product		
	Tissue	Fish (Trout)	
	Expression of result		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamp		
	Fat content (%)	3,4	

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			1,5	1,0	1,5
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			2,0	1,0	2,0
	Accredited	**	2.3.4.7.8-Hexa-CDD	1,8	0,88	< LOQ	0,1	0,088
	Uncertainty (%)		2.3.6.7.8-Hexa-CDD	1,8	0,88	< LOQ	0,1	0,088
			2.3.7.8.9-Hexa-CDD	1,8	0,88	< LOQ	0,1	0,088
			3.4.6.7.8-Hepta-CDD	2,4	1,2	< LOQ	0,01	0,012
OCDD			8,2	4,1	< LOQ	0,0001	0,00041	
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			25	0,1	2,5
	Accredited	**	1.2.3.7.8-Penta-CDF			3,4	0,05	0,17
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			5,7	0,5	2,8
			2.3.4.7.8-Hexa-CDF	1,8	0,88	< LOQ	0,1	0,088
			2.3.6.7.8-Hexa-CDF	1,8	0,88	< LOQ	0,1	0,088
			2.3.7.8.9-Hexa-CDF	1,8	0,88	< LOQ	0,1	0,088
			2.3.4.6.7.8-Hexa-CDF	1,8	0,88	< LOQ	0,1	0,088
			3.4.6.7.8-Hepta-CDF	2,4	1,2	< LOQ	0,01	0,012
			3.4.7.8.9-Hepta-CDF	2,4	1,2	< LOQ	0,01	0,012
			OCDF			4,2	0,0001	0,00042
	Total PCDD					3,5		3,8
	Total PCDF					38		5,8
TEQ (WHO) (PCDDs and PCDFs)					41		9,6	

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland										
	Year	2001										
	Clients Code	ENV 2001 / 364										
	Sample No. (ERGO)	H-01-09-0895										
	Product											
	Tissue	Fish (Trout)										
	Expression of results											
	Stage of marketing											
	Type of sampling											
	Sample No.											
	Area											
	Number of subsamples											
	Fat content (%)	3,4										
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	77			575	0,0001	0,057			
	Detection	HRGC/HRMS	PCB-	81			22	0,0001	0,0022			
	Accredited	**	PCB-	126			265	0,1	26			
	Uncertainty (%)		PCB-	169			27	0,01	0,27			
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	105			9849	0,0001	0,98			
	Accredited	**	PCB-	114			439	0,0005	0,22			
	Uncertainty (%)		PCB-	118			27156	0,0001	2,7			
			PCB-	123			n.a.	0,0001				
			PCB-	156			2923	0,0005	1,5			
			PCB-	157			786	0,0005	0,39			
			PCB-	167			2056	0,00001	0,021			
			PCB-	189			286	0,0001	0,029			
	Total non-ortho PCB						888	27				
	Total mono-ortho PCB						43495	5,8				
	Total WHO-PCB						44383	33				
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							42				
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results				
Methods		*	PCB-	28			5,3					
Accredited		**	PCB-	52			12					
Uncertainty (%)			PCB-	101			33					
		PCB-	118			27						
		PCB-	138			65						
		PCB-	153			71						
		PCB-	180			13						
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results					
	Methods	*	PCB-	18			2,6					
	Accredited	**	PCB-	31			4,1					
	Uncertainty (%)		PCB-	33			1,1					
			PCB-	37	0,090	0,045	< LOQ					
			PCB-	41			5,0					
			PCB-	44			5,5					
			PCB-	47			3,8					
			PCB-	49			5,1					
			PCB-	51			0,24					
			PCB-	60			2,3					
			PCB-	66			9,6					
			PCB-	74			6,8					
			PCB-	87			9,2					
			PCB-	99			19					
			PCB-	110			21					
			PCB-	141			4,6					
			PCB-	151			11					
			PCB-	183			3,2					
			PCB-	185			0,31					
			PCB-	187			14					
			PCB-	191			0,19					
			PCB-	193			1,5					
			PCB-	194			1,4					
			PCB-	201			1,8					
			PCB-	203			1,9					
			PCB-	206			0,47					
			PCB-	209			0,45					
			Small differences on totals result from computerroundings									
			* = see report, section "Methods"									
** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)												

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 365	
	Sample No. (ERGO)	H-01-09-0896	
	Product		
	Tissue	Fish (Trout)	
	Expression of result		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamp		
	Fat content (%)	4,1	

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			1,6	1,0	1,6
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			2,3	1,0	2,3
	Accredited	**	2.3.4.7.8-Hexa-CDD	1,5	0,73	< LOQ	0,1	0,073
	Uncertainty (%)		2.3.6.7.8-Hexa-CDD			1,1	0,1	0,11
			2.3.7.8.9-Hexa-CDD	1,5	0,73	< LOQ	0,1	0,073
			3.4.6.7.8-Hepta-CDD	1,9	0,9	< LOQ	0,01	0,009
			OCDD	6,0	3,0	< LOQ	0,0001	0,00030
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			29	0,1	2,9
	Accredited	**	1.2.3.7.8-Penta-CDF			2,8	0,05	0,14
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			6,2	0,5	3,1
			2.3.4.7.8-Hexa-CDF			0,8	0,1	0,080
			2.3.6.7.8-Hexa-CDF	1,5	0,73	< LOQ	0,1	0,073
			2.3.7.8.9-Hexa-CDF	1,5	0,73	< LOQ	0,1	0,073
			2.3.4.6.7.8-Hexa-CDF	1,5	0,73	< LOQ	0,1	0,073
			3.4.6.7.8-Hepta-CDF	2,0	0,98	< LOQ	0,01	0,0098
			3.4.7.8.9-Hepta-CDF	2,0	0,98	< LOQ	0,01	0,0098
			OCDF			3,9	0,0001	0,00039
	Total PCDD					5,0		4,1
	Total PCDF					42		6,4
	TEQ (WHO) (PCDDs and PCDFs)					47		11

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland								
	Year	2001								
	Clients Code	ENV 2001 / 365								
	Sample No. (ERGO)	H-01-09-0896								
	Product									
	Tissue	Fish (Trout)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	4,1								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			629	0,0001	0,063	
	Detection	HRGC/HRMS	PCB-	81			24	0,0001	0,0024	
	Accredited	**	PCB-	126			259	0,1	26	
	Uncertainty (%)		PCB-	169			31	0,01	0,31	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			10772	0,0001	1,1	
	Accredited	**	PCB-	114			459	0,0005	0,23	
	Uncertainty (%)		PCB-	118			28573	0,0001	2,9	
			PCB-	123			n.a.	0,0001		
			PCB-	156			3069	0,0005	1,5	
			PCB-	157			859	0,0005	0,43	
			PCB-	167			2305	0,00001	0,023	
			PCB-	189			333	0,0001	0,033	
			Total non-ortho PCB						943	
	Total mono-ortho PCB						46369		6,2	
	Total WHO-PCB						47312		32	
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)									43
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
Methods		*	PCB-	28			6,1			
Accredited		**	PCB-	52			13			
Uncertainty (%)			PCB-	101			37			
			PCB-	118			29			
			PCB-	138			75			
			PCB-	153			75			
			PCB-	180			14			
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			2,8			
	Accredited	**	PCB-	31			4,1			
	Uncertainty (%)		PCB-	33			1,3			
			PCB-	37			0,11			
			PCB-	41			6,4			
			PCB-	44			6,2			
			PCB-	47			4,0			
			PCB-	49			5,6			
			PCB-	51			0,22			
			PCB-	60			2,7			
			PCB-	66			11			
			PCB-	74			7,7			
			PCB-	87			10,0			
			PCB-	99			22			
			PCB-	110			24			
			PCB-	141			5,3			
			PCB-	151			12			
			PCB-	183			4,3			
			PCB-	185			0,40			
			PCB-	187			18			
			PCB-	191			0,21			
			PCB-	193			1,6			
			PCB-	194			1,7			
			PCB-	201			2,1			
			PCB-	203			2,3			
			PCB-	206			0,59			
			PCB-	209			0,44			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 366	
	Sample No. (ERGO)	H-01-09-0897	
	Product		
	Tissue	Fish (Trout)	
	Expression of result		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamp		
	Fat content (%)	6,2	

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			1,2	1,0	1,2
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			1,8	1,0	1,8
	Accredited	**	2.3.4.7.8-Hexa-CDD	0,97	0,48	< LOQ	0,1	0,048
	Uncertainty (%)		2.3.6.7.8-Hexa-CDD			0,93	0,1	0,093
			2.3.7.8.9-Hexa-CDD	0,97	0,48	< LOQ	0,1	0,048
			3.4.6.7.8-Hepta-CDD	1,3	0,65	< LOQ	0,01	0,0065
			OCDD	4,2	2,1	< LOQ	0,0001	0,00021
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			23	0,1	2,3
	Accredited	**	1.2.3.7.8-Penta-CDF			3,0	0,05	0,15
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			5,9	0,5	2,9
			1.2.3.4.7.8-Hexa-CDF			0,77	0,1	0,077
			1.2.3.6.7.8-Hexa-CDF	0,97	0,48	< LOQ	0,1	0,048
			1.2.3.7.8.9-Hexa-CDF	0,97	0,48	< LOQ	0,1	0,048
			2.3.4.6.7.8-Hexa-CDF	1,2	0,62	< LOQ	0,1	0,062
			3.4.6.7.8-Hepta-CDF	1,3	0,65	< LOQ	0,01	0,0065
			3.4.7.8.9-Hepta-CDF	1,3	0,65	< LOQ	0,01	0,0065
			OCDF	2,9	1,5	< LOQ	0,0001	0,00015
	Total PCDD					4,0		3,2
	Total PCDF					33		5,7
	TEQ (WHO) (PCDDs and PCDFs)					37		8,9

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) - lipid based -

1	Country	Ireland										
	Year	2001										
	Clients Code	ENV 2001 / 366										
	Sample No. (ERGO)	H-01-09-0897										
	Product											
	Tissue	Fish (Trout)										
	Expression of results											
	Stage of marketing											
	Type of sampling											
	Sample No.											
	Area											
	Number of subsamples											
	Fat content (%)	6,2										
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	77			457	0,0001	0,046			
	Detection	HRGC/HRMS	PCB-	81			19	0,0001	0,0019			
	Accredited	**	PCB-	126			181	0,1	18			
	Uncertainty (%)		PCB-	169			25	0,01	0,25			
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ			
	Methods	*	PCB-	105			8370	0,0001	0,84			
	Accredited	**	PCB-	114			351	0,0005	0,18			
	Uncertainty (%)		PCB-	118			22293	0,0001	2,2			
			PCB-	123			n.a.	0,0001				
			PCB-	156			2280	0,0005	1,1			
			PCB-	157			649	0,0005	0,32			
			PCB-	167			1836	0,00001	0,018			
			PCB-	189			243	0,0001	0,024			
	Total non-ortho PCB						682	18				
	Total mono-ortho PCB						36021	4,7				
	Total WHO-PCB						36703	23				
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)								32			
4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results					
	Methods	*	PCB-	28			4,8					
	Accredited	**	PCB-	52			10					
	Uncertainty (%)		PCB-	101			27					
			PCB-	118			22					
			PCB-	138			55					
			PCB-	153			58					
			PCB-	180			10					
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results					
	Methods	*	PCB-	18			1,9					
	Accredited	**	PCB-	31			3,1					
	Uncertainty (%)		PCB-	33			0,83					
			PCB-	37	0,052	0,026	< LOQ					
			PCB-	41			4,9					
			PCB-	44			4,8					
			PCB-	47			3,0					
			PCB-	49			4,4					
			PCB-	51			0,17					
			PCB-	60			1,8					
			PCB-	66			8,6					
			PCB-	74			6,0					
			PCB-	87			7,6					
			PCB-	99			15					
			PCB-	110			18					
			PCB-	141			3,4					
			PCB-	151			8,8					
			PCB-	183			3,1					
			PCB-	185			0,29					
			PCB-	187			13					
			PCB-	191			0,16					
			PCB-	193			1,3					
			PCB-	194			1,2					
			PCB-	201			1,5					
			PCB-	203			1,5					
			PCB-	206			0,38					
			PCB-	209			0,32					
			Small differences on totals result from computerroundings									
			* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)											

PCDDs/PCDFs in Fish (Trout) - lipid based -

1	Country	Ireland	Remarks
	Year	2001	
	Clients Code	ENV 2001 / 367	
	Sample No. (ERGO)	H-01-09-0898	
	Product		
	Tissue	Fish (Trout)	
	Expression of result		
	Stage of marketing		
	Type of sampling		
	Sample No.		
	Area		
	Number of subsamp		
	Fat content (%)	6,6	

2	PCDDs (ppt)		PCDD congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDD			0,95	1,0	0,95
	Detection	HRGC/HRMS	1.2.3.7.8-Penta-CDD			1,6	1,0	1,6
	Accredited	**	2.3.4.7.8-Hexa-CDD	0,91	0,45	< LOQ	0,1	0,045
	Uncertainty (%)		2.3.6.7.8-Hexa-CDD			1,3	0,1	0,13
			2.3.7.8.9-Hexa-CDD	0,91	0,45	< LOQ	0,1	0,045
			3.4.6.7.8-Hepta-CDD			1,5	0,01	0,015
		OCDD			3,4	0,0001	0,00034	
3	PCDFs (ppt)		PCDF congeners	LOQ	LOD	Results	TEF	TEQ
	Methods	*	2.3.7.8-Tetra-CDF			19	0,1	1,9
	Accredited	**	1.2.3.7.8-Penta-CDF			3,0	0,05	0,15
	Uncertainty (%)		2.3.4.7.8-Penta-CDF			5,8	0,5	2,9
			2.3.4.7.8-Hexa-CDF			0,94	0,1	0,094
			2.3.6.7.8-Hexa-CDF			0,87	0,1	0,087
			2.3.7.8.9-Hexa-CDF	0,91	0,45	< LOQ	0,1	0,045
			2.3.4.6.7.8-Hexa-CDF			1,0	0,1	0,10
			3.4.6.7.8-Hepta-CDF			0,82	0,01	0,008
			3.4.7.8.9-Hepta-CDF	1,2	0,61	< LOQ	0,01	0,0061
			OCDF	2,9	1,4	< LOQ	0,0001	0,00014
		Total PCDD				8,8		2,8
		Total PCDF				31		5,2
	TEQ (WHO) (PCDDs and PCDFs)				40		8,1	

Small differences on totals result from computer roundings

* = see report, section "Methods"

** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)

PCB-results in Fish (Trout) **- lipid based -**

1	Country	Ireland								
	Year	2001								
	Clients Code	ENV 2001 / 367								
	Sample No. (ERGO)	H-01-09-0898								
	Product									
	Tissue	Fish (Trout)								
	Expression of results									
	Stage of marketing									
	Type of sampling									
	Sample No.									
	Area									
	Number of subsamples									
	Fat content (%)	6.6								
2	non-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	77			378	0,0001	0,038	
	Detection	HRGC/HRMS	PCB-	81			15	0,0001	0,0015	
	Accredited	**	PCB-	126			147	0,1	15	
	Uncertainty (%)		PCB-	169			24	0,01	0,24	
3	mono-ortho PCBs (ppt)		PCB congeners		LOQ	LOD	Results	TEF	TEQ	
	Methods	*	PCB-	105			7892	0,0001	0,79	
	Accredited	**	PCB-	114			322	0,0005	0,16	
	Uncertainty (%)		PCB-	118			19264	0,0001	1,9	
			PCB-	123			n.a.	0,0001		
			PCB-	156			2011	0,0005	1,0	
			PCB-	157			574	0,0005	0,29	
			PCB-	167			1547	0,00001	0,015	
			PCB-	189			229	0,0001	0,023	
	Total non-ortho PCB						564	15		
	Total mono-ortho PCB						31840	4,2		
	Total WHO-PCB						32403	19		
	TEQ (WHO) (PCDDs/PCDFs and WHO-PCBs)							27		
	4	PCB-7 (6) (ppb)		PCB congeners		LOQ	LOD	Results		
		Methods	*	PCB-	28			3,8		
Accredited		**	PCB-	52			8,8			
Uncertainty (%)			PCB-	101			23			
		PCB-	118			19				
		PCB-	138			47				
		PCB-	153			49				
		PCB-	180			9,4				
5	Other PCBs (ppb)		PCB congeners		LOQ	LOD	Results			
	Methods	*	PCB-	18			1,5			
	Accredited	**	PCB-	31			2,5			
	Uncertainty (%)		PCB-	33			0,71			
			PCB-	37	0,051	0,025	< LOQ			
			PCB-	41			3,8			
			PCB-	44			4,1			
			PCB-	47			2,4			
			PCB-	49			3,6			
			PCB-	51			0,15			
			PCB-	60			1,7			
			PCB-	66			9,0			
			PCB-	74			6,4			
			PCB-	87			7,2			
			PCB-	99			12			
			PCB-	110			16			
			PCB-	141			3,0			
			PCB-	151			8,9			
			PCB-	183			2,2			
			PCB-	185			0,21			
			PCB-	187			9,9			
			PCB-	191			0,15			
			PCB-	193			0,97			
			PCB-	194			0,94			
			PCB-	201			1,1			
			PCB-	203			1,2			
			PCB-	206			0,27			
			PCB-	209			0,16			
	Small differences on totals result from computerroundings									
	* = see report, section "Methods"									
	** = Accreditation in progress (DACH 175/ERGO/20.06.00/00)									

- End of Report 2001-0836 -

