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Investigation of the Occurrence of Brominated Contaminants in Selected Foods

A. Fernandes, F Smith, R Petch, S Panton, M Carr and M.Rose

Authorised Signatories:

A. Fernandes
OPHA Organic
Environmental Contaminants

M Rose
OPHA Organic
Environmental Contaminants

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Food and Environment Research Agency (FERA)
Sand Hutton
YORK
YO41 1LZ

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Authors: A. Fernandes, F. Smith, R Petch, S.Panton
M Carr and M.Rose

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7th Floor
Aviation House
125 Kingsway
London WC2B 6NH

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Principal Workers: M Carr, K Harmannij, M Miller
F Smith, S Panton, R Petch, S White
& A. Fernandes

Team Leader: M Rose

Distribution:

1. Dr David Mortimer
2. Dr Martin Gem
3. Dr M Rose
4. Dr A Fernandes
5. FLN 8760
6. FERA Information Centre

SUMMARY

1. Individual samples consisting of a range of commonly consumed foods were collected in 2007. In the first phase of this work, 101 of these samples were selected for the analysis of brominated contaminants. The concentrations of selected individual polybrominated dibenzo-*p*-dioxins (PBDDs), polybrominated dibenzofurans (PBDFs), polybrominated diphenyl ethers (PBDEs) and polybrominated biphenyl (PBBs) congeners were measured and are reported for each sample. Additionally, concentrations of hexabromocyclododecane (HBCD) diastereomers and tetrabromo bisphenol A (TBBPA) are also reported. In the second phase of this work a smaller set of 14 samples, targeted largely from the outcome of the first phase results were analysed for the same set of determinands.
2. The reporting limits quoted for the PBDD/Fs were typically as low as sub-ng/kg (parts per trillion) levels on a fat weight basis and typically as low as 0.01 µg/kg for PBDE and PBB measurements. Measurement uncertainty estimates calculated as per the Eurachem guide have also been reported.
3. Methodology for the analysis of three other Brominated Flame Retardants (BFRs) - Hexabromobenzene (HBB), Bis(2,4,6-tribromophenoxy)ethane (BTBPE), and Decabromodiphenylethane (DBDPE) was developed and validated. This methodology has been applied to the analysis of the above food samples. Typical reporting limits for these compounds range from 0.01 µg/kg for HBB to 0.06 µg/kg for DBDPE, the higher values reflecting lability and the current widespread usage of these chemicals. The limits for the HBCD diastereomers and TBBPA were in a similar range to these compounds.
4. The toxic equivalents (TEQ) approach to estimating toxicity that is normally used for chlorinated dioxin (PCDD/F) and PCB contamination of food has been used here, where applicable. Thus toxic equivalent factors (TEFs) corresponding to the analogous PCDD/Fs and PCBs have been used to generate TEQs for PBDD/Fs and PBBs for each sample. The limitations of this approach must be recognised in that the TEFs used are not specific to

PBDD/Fs and PBBs and thus provide only an indication of toxicity. The approach is an interim measure until a comprehensive set of valid TEFs become available for these compounds.

5. PBDEs were the most frequently detected contaminant and occurred in all the samples. PBDFs were detected more frequently than PBDDs and at higher levels. Some PBDD and PBB congeners, were not detectable in any of the samples. Of the emerging BFR contaminants for which methods were developed, HBB and DBDPE were not detected at all, whilst BTBPE occurred in some samples. α -HBCD was the most frequently detected of the HBCD compounds and was most predominant in fish. Lower levels of the β - and γ -diastereomers were also detected in a few samples, but TBBPA was not detected at all. The levels reported of the various contaminants that were measured in this work are consistent with the limited available literature observations made for the various foods as well as the environmental and biological characteristics of contaminant bio-accumulation.

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GLOSSARY

Σ PBDD/F TEQ	Sum of WHO-TEQ for individual PBDD/PBDF congeners
$\Sigma_{\text{non-ortho}}$ PBB TEQ	Sum of WHO-TEQ for individual non-ortho PBB congeners
BDE	Brominated Diphenylether
BCR	Community Bureau of Reference
BFR	Brominated Flame Retardant
BTBPE	Bis(2,4,6-tribromophenoxy)ethane
CRM	Certified Reference Material
DBDPE	Decabromodiphenylethane
GC-HRMS	Gas chromatography - high resolution mass spectrometry
HBB	Hexabromobenzene
HBCD	Hexabromocyclododecane
HPLC-MS/MS	LC-MS in multiple reaction monitoring mode
IUPAC	International Union of Pure and Applied Chemistry
LC-MS	High Pressure Liquid Chromatography - mass spectrometry
PCB/PBB	Polychlorinated biphenyl/ Polybrominated biphenyl
PBDE	Polybrominated Diphenylether
PBDD/F	Polybrominated dibenzo- <i>p</i> -dioxin/ furan
PCDD/F	Polychlorinated dibenzo- <i>p</i> -dioxin/ furan
PTMI	Provisional tolerable monthly intake
PTV	Programmed temperature vaporisation
RM	Reference Material
SCF	EU Scientific Committee on Food
TBBPA	Tetrabromo Bisphenol A
TDI	Tolerable Daily Intake
TDS	Total diet survey
TEF	Toxic Equivalence Factor
TEQ	Toxic equivalence
WHO	World Health Organisation
WHO-TEF	Toxic Equivalence Factor
%U	Percentage Uncertainty

INTRODUCTION

1.1 Brominated contaminants commonly refer to a range of additive and reactive brominated flame retardant chemicals (BFRs), and brominated dioxins and furans (PBDD/Fs). BFRs are used specifically to slow down or inhibit the initial phase of a developing fire. Polybrominated diphenylethers (PBDEs), polybrominated biphenyls (PBBs), hexabromocyclododecane (HBCD), tetrabromo bisphenol A (TBBPA) are mass produced BFRs that are incorporated into a number of commonly used commercial materials such as plastics, rubbers, textiles and electronic components. Materials incorporating BFRs find wide-ranging applications from furniture foam and textiles to aircraft, automobiles and electronic equipment (1). These applications have undoubtedly resulted in a reduction in human fatalities (2,3) and figures of 20% reductions in fire deaths directly attributable to flame retardants have been quoted. BFRs are either mixed with ingredients when materials are produced (e.g. PBDEs) or in some cases are chemically bonded (e.g. TBBPA). As these are both open-ended applications, the BFRs are available to diffuse out of materials into the environment, and this can occur over the lifetime of the material - during manufacture, use, and disposal. The occurrence of BFRs in environmental compartments such as water, sediments and biota (1) accompanies an increasing amount of evidence that suggests that these chemicals may cause potential detrimental human health effects (1,4,5). PBDEs and PBBs have recently been added to the Stockholm Convention list of substances of very high concern

1.2 There is very little information on the occurrence of BFRs (other than PBDEs) and PBDD/Fs in food. This is perhaps unsurprising given the relatively recent recognition of the global environmental distribution of these pollutants (1). Additionally, analytical accessibility to reliable measurement of these contaminants has also limited the volume of available data. Unlike chlorinated pollutants, BFRs and brominated dioxins are particularly susceptible to degradation, interconversion and adsorption during analysis and these are important considerations in any analytical methodology used for reliable measurement. This report addresses the issues raised above and

describes the analytical methodology used as well as current data on the levels of these contaminants in a range of commonly consumed foods. Additionally methodology for the analysis of three further BFR compounds - Hexabromobenzene (HBB), Bis(2,4,6-tribromophenoxy)ethane (BTBPE), and Decabromodiphenylethane (DBDPE) was developed and validated and is also described. These compounds have been identified by the European Food Safety Authority (EFSA) as emerging BFRs that could be included in future monitoring programmes (6). This methodology has been applied to the analysis of the above food samples.

1.3 The structural similarity of some BFRs e.g. PBDEs and PBBs, to dioxins and PCBs and their consistent detection in biota and environmental media are evidence of the persistent nature of these contaminants. Emerging toxicological data shows that PBDEs can cause liver and neurodevelopmental toxicity and affect thyroid hormone levels. In recent years the EU has carried out a comprehensive risk assessment under the Existing Substances Regulation (793/93/EEC) of commercial PBDE products (7). The outcome was a ban on the use of PentaBDE and OctaBDE since 2004. The situation with regard to another mixture - decaBDE remains fluid - in 2008, the European Court of Justice (ECJ) annulled the exemption to the EU Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment 2002/95/EC, commonly referred to as the Restriction of Hazardous Substances Directive or RoHS Directive as of 30 June 2008 that was granted in 2005 for Deca-BDE.

1.4 PBDD/Fs are inadvertent by-products of incineration processes and have physico-chemical properties that are similar to their chlorinated analogues. They originate from similar anthropogenic sources as chlorinated dioxins, such as incineration, or chemical manufacture e.g. PBDD/F are formed as by-products during the manufacture of PBDEs. Studies of incineration processes (1,8) show that the formation of these compounds are consistent with “de novo” hypothesis and are thus governed by the occurrence of bromine or chlorine sources in incinerator feed. There are studies (1,9,10) to show that the incineration of products containing BFRs as well as thermolysis of BFR

material such as PBDEs is an important source of PBDD/F emissions. PBDD/Fs can also be formed from PBDEs, during thermal processing procedures such as extrusion, moulding and recycling, and degradation (1). It has also been demonstrated that PBDD/Fs can be formed during ultra-violet irradiation of decabromodiphenyl ether (11). Recently, there have been reports that some lower brominated PBDD congeners (tri- tetra-) may be produced through biogenic formation via naturally occurring bromophenols in the marine environment and bio-accumulate in some marine species (12,13). As the utilisation of BFRs continues to increase, a corresponding increase in PBDD/Fs levels can be expected. Studies on the toxicity of PBDD/Fs are limited but both, in vivo and in vitro studies demonstrate AhR agonist properties and dioxin-like effects (14,15). Although there are a number of methods reported for the analysis of dioxins, PCBs and PBDEs (1,16-19) very few methods exist for the determination of PBDD/Fs (16,19-21). To date there is very little available data on the occurrence of these compounds in food.

1.5 A major obstacle to the risk assessment of human exposure to brominated contaminants is the acute shortage of reliable occurrence data. This is particularly true for contaminants such as PBDD/Fs where analytical accessibility is limited due to the difficulties encountered in making reliable measurements. Other aspects of this issue are the fact that food matrices are more analytically challenging than environmental matrices (for which relatively more data is available), and the requirement for measurements to be sufficiently sensitive to make the risk assessment meaningful. However, in the UK, the Food Standards Agency has recently commissioned three studies on brominated contaminants – one investigating levels of occurrence in the food groups of the total diet study for 2004 and the associated human dietary intakes (22), and the others, investigating levels in fish (23) and shellfish (20, 24).

1.6. General observations from the TDS study showed that PBDEs, particularly congeners 47, 49, 66, 99, 100, 153, 183 and 209 were detected in most of the food groups. In general, lower brominated congeners such as PBDE 47 were most abundant in fish, whilst the higher brominated congeners

were more abundant in meat. Other PBDEs, PBDFs, PBBs and HBCDs were detected less frequently, and PBDDs and TBBP-A was not found above the limit of detection in any food group. The greater frequency of detection of PBDFs relative to PBDDs reflects the environmental occurrence and emission profiles for brominated dioxins and furans, which both show higher levels of the furans. Therefore a wider range of PBDF congeners were detected in fruits, green vegetables and sugars and preserves. Other non-2378 bromo substituted congeners were also observed although due to lack of standards it was not possible to quantify these. Among the HBCD congeners measured, alpha-HBCD was detected in half of the food groups, being highest in fruit, vegetables and meat. Beta- and gamma-HBCD were found less frequently, at lower levels and only in fruit and vegetables. The resulting average adult dietary intakes from the whole diet were estimated at <5.9 ng/kg bodyweight/day for total PBDEs, <5.9 ng/kg bodyweight/day for total HBCDs, <1.6 ng/kg bodyweight/day for TBBP-A, and <0.4 pg TEQ/kg bodyweight/day for brominated dioxins. The estimated total adult dietary intake of brominated dioxins was comparable with that found in Japan (1.4 pg TEQ/kg bodyweight/day) (19).

1.7 The studies on fish and shellfish (23,24) investigated 48 and 60 composite samples respectively and showed greater frequency of detection of the different analytes apart from TBBP-A which was not detected in any sample. As with the TDS, the PBDEs were detected in most of the samples as was alpha-HBCD (apart from the canned products). Lower brominated dioxins and furans were also detected in a number of samples, with tribromo analogues occurring at significant levels particularly in shellfish. This is an important observation as tri-brominated dioxins and furans may have a greater toxicological significance than their chlorinated counterparts (25).

1.8 This study will complement and extend the available knowledge on the occurrence of these contaminants in food, by providing data for a wide range of individual foods that are commonly consumed. This will allow a current and more realistic estimate of the dietary intake of different population groups

and provide a better assessment of the health risk arising from the ingestion of these contaminants.

EXPERIMENTAL

Sampling

2.1 In the first phase of sampling, 101 samples of various foods ranging from fish and meat to vegetables, dairy products and processed foods were collected between June and August 2007 by Ventress Technical Ltd. (26). On receipt at the laboratory each sample was given a unique laboratory reference number and the sample details logged into a database. The samples were stored frozen prior to analysis. Data for some of the analytes, generated for these samples was used to target a second smaller set of 14 additional foods.

2.2 Details of the sampling plan (including location of the sampling sites) constructed in conjunction with the FSA have been reported elsewhere (26).

2.3 The composite samples were freeze-dried and the resulting powders were thoroughly mixed before taking sub-samples for analysis. The analytical methodology used for the measurement of PBDD/Fs, PBDEs, PBBs by GC-MS and HBCD and TBBPA by LC-MS/MS is described in the following paragraphs. The methodology developed for the analysis of the three EFSA prioritised flame retardants – HBB, BTBPE and DBDPE – used GC-MS and is described later.

Fat Determinations

2.4 Fat determinations were performed by a UKAS (ISO 17025) accredited laboratory on sub-samples of the freeze-dried and homogenised samples using a standard method (27).

Analytes – GC-MS determinations

2.5 The following analytes were determined:

Brominated dioxins - 2,3,7-T₃BDD, 2,3,8-T₃BDF, 2,3,7,8-Br substituted PBDD/Fs: tetra – hexa brominated congeners (note that this includes only 1 hexa-Br substituted furan as no standards were available for the other 3 congeners)

PBDE congeners: IUPAC numbers 17, 28, 47, 49, 66, 71, 77, 85, 99, 100, 119, 126, 138, 153, 154 and 183.

PBB congeners: IUPAC numbers 15, 49, 52, 77, 101, 126, 169, and 153.

PBDE 209 and PBB 209 (deca bromo compounds)

HBB, BTBPE and DBDPE

Analytes – LC-MS/MS determinations

α -HBCD, β -HBCD and γ -HBCD, TBBPA

Materials

2.6 Reference standards for PBDD/Fs, PBBs, PBDEs, HBB, BTBPE, DBDPE and $^{13}\text{C}_{12}$ materials for use as internal standards were sourced from either Cambridge Isotope Laboratories (Andover, MA, USA) or from Wellington Laboratories (Guelph, Ontario, Canada) as solutions in n-nonane, iso-octane, methanol or toluene with a specified 10% tolerance on concentration. Deca-BB was obtained as an iso-octane solution from Accustandard and deca-BDE was obtained as a toluene solution from Wellington.

2.7 The PBDD/F internal standard solution contained nominal concentrations of 10 ng/ml each of five $^{13}\text{C}_{12}$ labelled 2,3,7,8-substituted internal standards (one each for tetra- and penta-Br substituted dioxin and furan, and one hexa-Br substituted dioxin). The internal standard solution for the PBBs and PBDEs contained nominal concentrations of 100 ng/ml of $^{13}\text{C}_{12}$ labelled PBBs (IUPAC numbers 52, 77, 126 and 153), 100 ng/ml of $^{13}\text{C}_{12}$ labelled PBDEs (IUPAC numbers 28, 47, 99, 153, 154 and 183) and 300 ng/ml of $^{13}\text{C}_{12}$ labelled Deca-BDE.

2.8 The internal sensitivity standard solution used for PBDD/Fs, PBBs and PBDEs contained $^{13}\text{C}_{12}$ -PCB 202 and $^{13}\text{C}_{12}$ -PBDE 139 at a nominal concentration of 100 ng/ml. All internal and sensitivity standard solutions were prepared in n-nonane.

2.9 Dichloromethane, methanol, toluene, hexane and n-nonane were

purchased as doubly glass distilled (Rathburn, Scotland) and assessed for lack of contamination before use.

2.10 Alumina (Sigma Chemical Company, USA) was activated by baking overnight in a muffle furnace at 450° C. All other chemicals employed were Analytical Reagent grade materials.

2.11. Reagents, including base-modified and acid-modified silica gel, were prepared as previously reported (16,20) and were assessed for contamination prior to use.

2.12. All equipment was scrupulously cleaned and thoroughly rinsed with dichloromethane prior to use. Care was taken to avoid direct sunlight and airborne contamination of containers was minimised by keeping vials capped even when empty and covering flasks and concentration tubes with cleaned aluminium foil.

Extraction and purification

2.13. The extraction, purification and analysis of samples for PBDD/Fs, PBBs and PBDEs was carried out as previously reported (16,20). In brief, aliquots of the samples were fortified with the internal standard solutions described in 2.7 and extracted by solvent action.

2.14. The crude extract obtained was quantitatively transferred into an apparatus containing modified silicas followed by activated carbon on glass fibres where the analytes were fractionated on the basis of their planarity.

2.15. The two fractions containing i) ortho-PBBs and PBDEs, ii) non-ortho-PBBs and PBDD/Fs were purified using acid and base hydrolysis and activated alumina.

2.16. Where required, fractions were further purified using acid hydrolysis

and alumina. The extracts were concentrated and the appropriate sensitivity standard was added to each fraction prior to instrumental analysis.

GC-HRMS determination of PBDD/Fs, PBDEs, PBBs and deca-BB/BDE

2.17. GC-high resolution mass spectrometry was performed on either one of two Micromass Autospec Ultima instruments fitted with a Hewlett Packard 6890N gas chromatograph and a CTC Analytics PAL GC autosampler or a CTC A200SE autosampler. The gas chromatograph was fitted with a 60m J&W DB-5 MS fused silica capillary column. The GC-MS interface was set to 280°C. Injections were made with a PTV injector using a temperature programme which consisted of a 3 minute isothermal period at 60°C followed by heating at 12°C/sec to 320°C, hold for 3 min and then at 12°C/sec to 350°C. For the PBDD/Fs and non-ortho PBBs, the oven temperature programme consisted of a 5 minute isothermal period at 80°C followed by heating at 14°C/min to 220°C for 1 min, then at 3°C/min to 280°C for 1 min, then 6°C/min to 310°C for 9 min, followed by 20°C/min to 330°C with a final isothermal period of 3 min. Electron ionisation was used and the mass spectrometer was operated at a resolution of 9000 - 10000 (based on peak width at 10% of peak height) with focussing optimised prior to each run. Selected ion monitoring was employed, using the two most intense ions in the molecular ion cluster for each homologue. These conditions were used to monitor PBDD/Fs and non-ortho-PBBs in one run, with the ortho substituted PBBs and PBDEs measured in a second run using the following oven temperature programme: 4 minute isothermal period at 60°C followed by heating at 11.3°C/min to 150°C for 1 min, then at 20°C/min to 230°C for 1 min, then 2°C/min to 270°C for 1 min, then 10°C/min to 310°C for 7 min followed by 20°C/min to 330°C with a final isothermal period of 4 min.

2.18. Decabromo analytes were measured in a separate run (20) using a 15 m ZB5-MS column (Zebron, Phenomenex) operated using the following oven temperature programme: 3 min at 60°C, 20°C/min to 205°C for 21 min, then 66°C/min to 325°C for 10 min. The PTV injector in constant flow mode used the following transfer programme: 3 min at 60°C, 12°C/sec to 320°C for 3

min, then 12⁰C/sec to 350⁰C.

Data handling

2.19. Data reduction for all GC-MS analyses, and processing to calculate the mass of each compound present was performed using Masslynx 3.5 software supplied by Micromass (Waters). These data were transcribed to Microsoft Excel for collation and quantitation of concentration data.

Quality control (GC-MS)

2.20. The methodology used for the determination of PBDD/Fs, PBDEs and PBBs has been accredited (UKAS) to the ISO17025 standard. The scope of the accreditation covers all congeners except deca-BDE/BB. There are no universal acceptance criteria for data quality, so quality control for the accompanying data has followed the criteria currently used for chlorinated dioxins and PCBs for which acceptance criteria are published (28). Further, the methodology used for these brominated analytes is essentially the same as that used for chlorinated dioxins and PCBs – featuring the extensive use of ¹³Carbon labelled analyte surrogates and measurement by high resolution mass spectrometry. Basic method quality data for PBDEs and PBDD/Fs using essentially the same method as that successfully used over several years for chlorinated dioxins and PCBs has been published before (16).

2.21. The GC-MS analytical run of each batch of purified sample extracts was preceded by the analysis of a standard reference solution used to check system performance and calibration validity. The reference standard solution was also analysed during and at the end of the analytical run. All integrated chromatograms were scrutinised to assess chromatographic peak shape, resolution and signal-to-noise. Additionally, lock-mass traces were examined for evidence of ionisation suppression and isotope ratios were compared with theoretical abundances.

2.22. GC-MS data were acceptable or better for all congeners in all samples.

2.23. Sample extraction and purification was carried out in batches that included a full method blank. The blank was assessed for internal standard recoveries and for the presence of native analytes.

2.24. In the absence of reference materials for the brominated dioxins and PBBs, a number of different food matrices ranging from milk to fish were fortified with native analytes and analysed using the methodology described. Results obtained for these were in good agreement with fortification levels. Additionally a RM commonly used for chlorinated dioxins and PCB analysis (29) was included in sample batches. Where analytes were detectable (PBDEs and PBBs), data for the reference material analysed shows consistency during the course of the work.

2.25. FERA regularly participates in inter-comparison exercises, where these are available, for e.g. most recently, in 2003, 2005, 2007 and 2009 rounds of the inter-comparison exercise – “Dioxins in Food” (30-32, the final report for the 2009 round is not yet available). Results reported by the laboratory were in good agreement with consensus data. There are currently no exercises running for brominated dioxins or PBBs in food, but there is an exercise for the determination of PBDEs in biota (33). For participation to date, results reported by the laboratory were in excellent agreement with consensus data (Exercise 618 round 37). Additionally, the “Dioxins in Food” inter-comparisons for 2005, 2007-2009 have also included measurements for PBDEs. Results reported for food-based matrices such as fish oil, butter-oil, fish and poultry were in agreement with consensus data.

LC-MS/MS determination of HBCD and TBBPA

2.26 As reported previously (23) the analyses were carried out in duplicate. Four aliquots of each sample were taken. Two of these were spiked with internal standard (10 ng each of ^{13}C α HBCD, ^{13}C β HBCD, ^{13}C γ HBCD and ^{13}C TBBPA) and the four analytes (10 ng each of TBBPA, α HBCD, β HBCD, and γ HBCD). The other two portions were spiked with the internal standard.

Procedural blanks and an in-house reference material were run with each batch of samples. The samples were left to stabilise for 30 min prior to extraction. High lipid content samples were mixed with anhydrous sodium sulphate (50 g) and hexane:dichloromethane, 60:40 (v/v) (200 ml) was added. The mixture was homogenised using an Ultra Turrax for 1 min, left to stand for a further 10 min and 60 g of acid modified silica was added. The slurry was homogenised for 5 min, filtered and the filtrate collected. The silica residue was washed with hexane:dichloromethane, 60:40 (v/v) (50 ml) and allowed to stand for 15 min.

2.27 The filtrate was transferred to a turbo-vap tube and reduced in volume to approximately 0.5ml. This was then transferred to a glass vial and evaporated to ~5 µl. The extract was reconstituted to 150 µl (using 100 µl of methanol + 30 µl of water) and transferred to a glass vial for HPLC-MS/MS determination. Analysis was carried out using the chromatographic conditions reported earlier (45). The analytes were detected by MS/MS in multiple reaction monitoring mode (MRM) mode (34).

Quality control (HPLC-MS/MS)

2.28 The methodology used here for the determination of individual HBCD stereoisomers and TBBPA has been peer reviewed and published (34).

2.29 ¹³Carbon labelled surrogates of each of the 4 analytes were used as internal standards for quantification. This allowed more accurate determination of analytes and gave better precision of measurement which was typically of the order of 16% (RSD) (45). Additionally most determinations were carried out in duplicate with good agreement.

2.30 The method limit of determination for HBCD isomers and TBBPA was calculated using the instrument response to the lowest calibration standard and the levels of these analytes detected in the method blanks. The limits of determination were typically in the range of 0.01 to 0.1 µg/kg for the analytes

on a whole weight basis, depending on the matrix. Analytical recoveries were generally within the range of 60 - 120%.

2.31 There are no certified reference materials available for HBCD or TBBPA analysis in food matrices. However, aliquots of all the samples analysed were fortified with native analytes and the concentrations of recovered analytes measured, were in good agreement with fortification levels. Additionally a fortified in-house reference material was also analysed regularly with the samples and returned values that were in good agreement with fortification levels.

2.32 The measurement by HPLC-MS/MS was linear (regression coefficient > 0.99) for all analytes over the concentration ranges reported.

Determination of HBB, BTBPE and DBDPE

2.33 Analytical methodology was developed during the course of this work for the determination of Hexabromobenzene (HBB), Bis(246-tribromophenoxy)ethane (BTBPE), and Decabromodiphenylethane (DBDPE). The methodology was based on internal standardisation using ¹³Carbon labelled surrogates of the three compounds and measurement by high resolution GC coupled to high resolution MS.

2.34 In the extraction stage, 5 to 10 g aliquots of the freeze-dried and homogenized sample, fortified with a known amount (in typically 50 µL) of ¹³C₁₂ labeled surrogates and equilibrated, were pre-treated with 50g of H₂SO₄ modified silica (1:1, w:w) in 100ml of n-hexane. The mixture was frequently agitated to prevent setting and continuously swirled to ensure good contact between the matrix and the suspended acid. The mixture was quantitatively transferred to the top of a multi-layer column (70 x 600 mm) packed from top to bottom with; 30 g of anhydrous sodium sulphate, 25 g of H₂SO₄ modified silica gel as described above, 50 g of base modified silica gel (YMC Gel, Kyoto, Japan; prepared by mixing in the ratio 3:1, 5M KOH in methanol:silica and allowing evaporation of methanol and stabilization for 24 hours), 10 g of sodium sulphate and silanised glass wool. The column was eluted with hexane

(100 mL) and dichloromethane:hexane (40:60 v/v, 200 mL). The eluate was quantitatively split into two equal parts, one of which was concentrated and solvent exchanged to ~1ml hexane and treated with concentrated H₂SO₄, followed by a wash with de-ionised water. The treated extract was then chromatographed on a 5.6g activated Florisil™ (activated by baking at 150°C for >16h) column which was eluted with 10 ml of hexane to waste, followed by 60ml of dichloromethane:hexane (40:60 v/v). This fraction was concentrated and solvent exchanged to the volume of the internal sensitivity standard (25 µl of nonane containing ¹³C₁₂ -PBDE 139 at a nominal concentration of 100 ng/ml)

2.35 The extracts were analysed by GC-high resolution mass spectrometry performed on a Micromass Autospec Ultima instruments fitted with a Hewlett Packard 6890N gas chromatograph and a CTC A200SE autosampler. The gas chromatograph was fitted with a 15 m ZB5-MS column (Zebron, Phenomenex), operated using the following oven temperature programme: 3 min at 60°C, 20°C/min to 205°C for 21 min, then 66°C/min to 325°C for 10 min. 10 µl injections were made with a PTV injector in constant flow mode using the following transfer programme: 3 min at 60°C, 12°C/sec to 320°C for 3 min, then 12°C/sec to 350°C. The GC-MS interface was set to 280°C. The mass spectrometer used electron ionisation and operated at a resolution of ~ 7000 - 8000 (based on peak width at 10% of peak height) with focussing optimised prior to each run. Selected ion monitoring was employed, using the two most intense ions below m/z 850 for each analyte.

2.367 As for the PBDD/F measurements rationalization of the mass spectral output and processing to calculate the quantity of each compound present was performed using Masslynx 3.5 software supplied by Micromass. These data were transcribed to Microsoft Excel for collation and quantitation of concentration data.

Quality Control

2.37 In general terms, the extraction and purification methodology described above is similar to, and is based on the methodology used at FERA/CSL (16)

for dioxin analysis (without the use of activated carbon), in that it uses cold solvent extraction and acid hydrolysis of the food matrices, followed by purification using adsorption chromatography and measurement by HRMS. The use of these techniques has been peer-reviewed and the methodology has been used successfully over many years for the measurement of dioxins and PCBs.

2.38 The use of high resolution mass spectrometry (HRMS) confers a high degree of measurement specificity as well as sensitivity. Method limits of detection are typically of the order of ~0.01 µg/kg for HBB and BTBPE and 0.06 µg/kg for DBDPE on a whole weight basis. The use of ¹³Carbon labelled surrogates for each of the 3 compounds is a practice that is well-established for environmental contaminant analysis and gives a high level of method control. This results in good reproducibility and replicate measurements on the same matrix have shown an average precision of around 10 % as defined by the co-efficient of variation. The accuracy of the measurement has been investigated by the successful analysis of food matrices fortified at different levels, returning concentrations that were in agreement with the fortified values. There are no available reference materials (RMs) for these compounds, but an in-house reference material (fortified sunflower oil) investigated during the course of this work yielded data that was consistent with expected levels.

2.39 Analytical recoveries for HBB, BTBPE and DBDPE were based on the incurred ¹³Carbon labelled surrogates, and were typically within the range 40-80%, which reflects the lability of highly brominated organic molecules. Concentrations reported here are of course, corrected for recovery.

2.40 The measurement by GC-HRMS was linear (regression coefficient > 0.995) for all the three analytes over the concentration ranges reported.

RESULTS AND DISCUSSION

3.1. A list of samples including a description and CSL sample number is

given in Table 1.

3.2. PBDD/F concentrations are given in Table 2, non-ortho PBBs in Table 3, ortho-PBB in Table 4 and PBDEs in Table 5. Data were rounded to two decimal places for all analytes. Measurement uncertainty has been estimated for PBDD/Fs, PBDEs and PBBs as per the Eurachem guide (35). The estimate takes into account contributory parameters such as the individual uncertainties associated with fat content, sample size, results of the analysis of fortified samples, and limits of detection. Typical uncertainties, for example, for PBDFs are of the order of 20% at the 1 ng/kg fat level, but can rise to around 200% at the limit of detection (typically 0.01 ng/kg fat, but dependent on the fat content and sample size). In perspective, this is the same degree of uncertainty achieved by CSL in recent international inter-comparison exercises for dioxins and PCBs (30-33) where measurements were made at similar concentrations and results reported by the laboratory were in good agreement with consensus data. For HBB, BTBPE and DBDPE, the uncertainty for detected compounds was higher, typically around 50% and rising to ~250% for values near the LOD. These are provided in the corresponding tables (Tables 6-7), as are analytical tolerance estimates for HBCD and TBBPA.

3.3. The reporting limits quoted (as “<”) for all analytes was the limit of determination that prevailed in that instance. The limits for the PBDD/Fs were typically as low as sub-ng/kg (parts per trillion) levels on a fat weight basis, and typically as low as 0.01 µg/kg for PBDE and PBB measurements. Corresponding limits for HBB and BTBPE were 0.01 µg/kg on a whole weight basis rising to 0.06 µg/kg for DBDPE. A very similar range of reporting limits was achieved for the analytes measured by LC-MS, HBCD and TBBPA. In general, for all analytes, the limits are consistent with those reported in earlier work and were generally better, or at least equivalent to those reported in the literature.

3.4. The data in Tables 2 and 3 is supplemented by the addition of toxic equivalent values (TEQs) for the PBDD/Fs and the non-ortho-substituted

PBBs. The use of analogous chlorinated dioxin and PCB toxic equivalent factors (TEFs) (36) to estimate toxicity (TEQs) arising from PBDD/Fs and non-ortho PBBs is limited in that it provides an indication of the likely TEQ of the samples. This approach has been proposed (15) as both chlorinated and brominated dioxins show similar biological effects such as induction of aryl hydrocarbon hydroxylase (AHH)/EROD activity and other toxic responses such as wasting syndrome, thymic atrophy and liver toxicity in a range of test animals (25). However the approach should be recognised as an interim measure until reliable TEF values that cover all the congeners that show dioxin-like toxicity become available. The toxicities for these compounds continue to be studied (14) and potencies of some congeners, relative to 2,3,7,8-TCDD have been reported (14, 25, 37-38) in the literature.

3.5 Measurement uncertainty for individual PBDD/Fs, and PBBs with a WHO-TEF value as reported in Tables 2-3 has been extrapolated to the relevant Σ WHO-TEQ upper bound values for individual samples. Additionally, measurement uncertainty on lower bound total Σ WHO-TEQ has also been reported. In keeping with the convention of reporting lower bound data where concentrations below the reporting limit are not included in the summation, the estimation of uncertainty for the lower bound data similarly excludes the uncertainty associated with concentrations below the reporting limit. In order to facilitate comparison with other reports, whole weight basis Σ WHO-TEQs and measurement uncertainty estimates are also reported.

3.6 This report represents the first study of such a comprehensive set of brominated contaminants in foods from the UK. PBDEs occurred in most types of food and were the most frequently identified contaminant, followed by PBDFs, PBBs and HBCD. PBDDs were rarely identified and this observation is consistent with the environmental occurrence of PBDD/Fs. In general, these contaminants were most frequently observed in fish and to a lesser extent in processed meats, eggs and offals. Of the emerging BFRs identified by EFSA, there are a few instances of low level BTBPE occurrence in some samples. Little is known about the local production and use of BTBPE

– it was intended as a replacement for the banned BFR – Octa-BDE. Occurrence in sediment and biota have been documented (39, 40) for North America, and more proximately, levels of around 0.11 ng/g have been detected in birds eggs from the Faroe Islands (41). HBB and DBDPE were not detected in any samples. This is consistent with reports on the relatively low usage of DBDPE in the UK and occurrence in sediments/sludges (42). In general, the concentrations of most of the analytes reported here, reflect the utilisation of the various BFRs and the occurrence of brominated contaminants in the environment.

3.7 From a food safety point of view, there are no maximum permitted limits specified for any of the contaminants reported here and this is perhaps a reflection on the lack of comprehensive toxicological information and occurrence data. However, some of the more studied compounds such as PBDEs and PBBs have recently been added to the Stockholm Convention list of substances of very high concern (46). As far as observations on the concentrations of the various contaminants are concerned, and given the limitations on TEQs expressed earlier, it is however useful to note that the values recorded for PBDD/Fs and non-ortho PBB TEQ were generally below maximum permitted levels for the analogous chlorinated dioxins and PCBs, specified in EU regulations (43).

3.8 The levels reported of the various contaminants that were measured in this work are consistent with literature observations (where available) made for food (17-24,44). The general lack of data on the brominated contaminants does not allow observations on the trend in occurrence for these compounds. However, the data reported here represent a useful baseline from which data from future studies can be gauged. The continued use of BFRs and the resulting potential of PBDD/F formation from the disposal of these materials make it prudent to continue surveillance on the occurrence of these contaminants.

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Table 1: Description of Samples

CSL Sample No.	Description	Fat %
15311	Mushy peas	0.6
15312	Cauliflower - Class II	0.4
15313	New Zealand sliced lambs liver	7.1
15314	Rainbow trout	6.9
15315	Organic boned Scottish salmon fillets	13.8
15316	English lamb hearts	8.1
15317	Best braising steak	3.3
15320	Boneless leg of pork	16.5
15321	Large eggs	8.8
15322	8 Lincolnshire sausages	15.3
15323	Vintage extra mature cheddar	35.2
15324	Wholemeal bread	2.8
15326	Rooster potatoes	0.2
15327	Carrots - Class 1 (20 - 50mm)	0.5
15328	Pure corn oil	100
15329	Sweetcorn	1.1
15344	Superfast Oats	9.1
15345	Organic extra jam handmade strawberry preserve	0.3
15346	Jersey potatoes in water	0.2
15347	Olive oil - medium	100
15348	Red onions - Class 1 (40/60mm)	0.3
15349	Somerset goat's cheese	28.9
15350	British white potatoes - Osprey	0.4
15351	Free range eggs - medium	10.1
15358	Swede half	0.1
15363	MSC wild Alaskan salmon fillets	2.9
15364	Crispy oven fries	5.4
15366	12 organic large free range eggs	9.0
15368	British parsnips	0.2
15369	Whole mackerel	12.2
15371	British classic tomatoes - Class 1	0.2
15373	6 Newmarket sausages	14.0
15374	Organic milk	3.2
15375	Cooked prawns - shell-on	2.2
15376	Ox kidney	8.7
15377	Dressed Whitby crab	6.2
15378	Boneless shoulder of lamb	15.3
15379	Turkey breast	6.2
15387	Leeks	0.1
15389	6 free range duck eggs	15.0
15390	Welsh medium Cheddar	34.7
15391	Welsh whole rainbow trout	5.5
15395	Ox liver	4.5
15397	Whole mackerel	10.0
15398	Wild Alaskan salmon fillet	3.4
15400	4 Scotch beef quarterpounders economy burgers	20.1

Table 1(cont'd): Description of Samples

CSL Sample No.	Description	Fat %
15401	Cheese spread	15.3
15403	Whole lemon sole	1.2
15404	Cod fillet	0.6
15405	Cheese & onion flavour potato crsips	32.8
15419	Blackcurrant coulis	0.7
15420	Free range organic eggs - medium	10.3
15421	Boneless British turkey breast joint	1.7
15422	British pork boneless leg roast	11.0
15424	4 haddock fillets	1.2
15425	Cornish brie	27.3
15426	Whole herring	17.6
15427	Plaice fillets	1.3
15429	Lambs liver	6.8
15430	Local venison fillet	2.5
15442	Black pudding	30.4
15443	Rump steak for braising	3.6
15444	Rolled shoulder of lamb	18.2
15445	Venison haugh joints	2.8
15450	Whole herring	24.1
15451	Cod fillet	0.7
15452	Farmed salmon fillet - (Freedom Food RSPCA monitored)	11.7
15487	Free range duck eggs	16.2
15488	Mini Pringles savoury snack	30.7
15493	Somerset brie	24.1
15498	Dover sole	1.2
15499	Plaice fillets	2.6
15500	Venison liver	3.4
15501	Lambs kidney	3.3
15503	Pure sunflower oil	100
15508	Smoked eel	39.1
15509	Medium half fat cheese food slices	10.4
15510	Duddleswell sheeps milk cheese	35.0
15511	Wild Atlantic salmon	9.0
15512	Whole Cornish sardines	15.1
15513	Pasteurised ewes milk	6.5
15516	Whole Cornish sardines - frozen	5.5
15526	Lambs kidney	3.7
15527	Pork liver	3.7
15528	Fresh chicken legs - boneless	15.2
15529	Chicken livers	4.5
15530	British pork sliced liver	3.8
15534	Chicken liver	5.3
15554	Mirror carp	4.9
15555	Whitebait	9.1

Table 1(cont'd): Description of Samples

CSL Sample No.	Description	Fat %
15557	Ox liver	3.3
15558	Duck liver pâté with wine	25.5
15564	Wild Atlantic salmon	7.8
15565	Whitebait	2.1
15566	Sprats	21.6
15567	English sprats	23.2
15569	Spinach - Class 1	0.4
15574	6 free range eggs - large	8.9
15579	Pigs kidney	3.1
15580	Boneless chicken thighs	17.8
15654	Eels	30.7
Phase 2		
16143	Traditional lamb sliced liver	8.1
16145	Premium pork sausages	23.9
16150	Jellied eels	10.6
16151	Smoked eel	35.7
16159	Lochmuir Scottish salmon portions	16.5
16165	Wild venison liver	6.1
16166	Whole Cornish mackerel	24.8
16169	2 prime boneless salmon fillets	15.5
16170	8 Cumberland pork sausages	12.1
16172	Farmed red deer liver	5.9
16173	Lambs liver	6.4
16184	Whole mackerel (gutted by fishmonger)	2.1
16186	Herring (filleted by fishmonger)	19.4
16189	Herring (filleted by fishmonger)	9.7

Table 2: Concentrations of PBDDs and PBDFs

CSL Sample No.	15311		15312		15313		15314	
LIMS Number	S07-013306		S07-013307		S07-013308		S07-013309	
Sample Details:	Mushy peas		Cauliflower - Class II		New Zealand sliced lambs liver		Rainbow trout	
Fat % Whole	0.62		0.44		7.10		6.93	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.1	202	<0.08	202	<0.03	202	<0.02	202
2378-TetraBDD	<0.15	201	<0.13	201	<0.04	201	<0.03	201
12378-PentaBDD	<0.44	202	<0.36	202	<0.1	202	<0.09	202
123478/123678-HexaBDD	<0.5	201	<0.45	201	<0.2	201	<0.1	201
123789-HexaBDD	<0.62	202	<0.52	202	<0.16	202	<0.12	202
238-TriBDF	0.21i	98	0.14i	117	0.06	103	0.21	31
2378-TetraBDF	<0.15	201	<0.13	201	<0.04	201	0.17	43
12378-PentaBDF	<0.35	201	<0.3	201	<0.11	201	<0.07	201
23478-PentaBDF	0.52i	144	<0.32	201	<0.1	201	<0.08	201
123478-HexaBDF	<0.62	201	<0.54	201	<0.16	201	<0.13	201
1234678-HeptabromoBDF	<3.22	201	6.90i	85	<0.85	201	<0.67	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.166		0.069		<0.001		0.017	
WHO TEQ (ng/kgfat) lower	0.260		0.069		<0.001		0.017	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.354		0.069		<0.001		0.017	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.527		0.412		0.119		0.105	
WHO TEQ (ng/kgfat) upper	1.089		0.898		0.260		0.222	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	1.651		1.384		0.401		0.339	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		<0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) lower	0.002		<0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.002		<0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.003		0.002		0.008		0.007	
WHO TEQ (ng/kgWhole) upper	0.007		0.004		0.018		0.015	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.010		0.006		0.028		0.023	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No. LIMS Number	15315 S07-013310	15316 S07-013311	15317 S07-013312	15320 S07-013315				
Sample Details:	Organic boned Scottish salmon fillets		English lamb hearts	Best braising steak	Boneless leg of pork			
Fat % Whole	13.80		8.07	3.29	16.50			
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.02	202	<0.02	202	<0.02	202	<0.02	202
2378-TetraBDD	<0.03	201	<0.03	201	<0.03	201	<0.03	201
12378-PentaBDD	<0.07	202	<0.08	202	<0.09	202	<0.11	202
123478/123678-HexaBDD	<0.09	201	<0.1	201	<0.1	201	<0.1	201
123789-HexaBDD	<0.11	202	<0.12	202	<0.12	202	<0.12	202
238-TriBDF	0.30	27	0.05	84	0.03i	135	0.03	135
2378-TetraBDF	0.05	122	0.03i	201	<0.03	201	<0.03	201
12378-PentaBDF	<0.07	201	<0.07	201	<0.07	201	<0.07	201
23478-PentaBDF	<0.07	201	0.11	147	<0.09	201	<0.07	201
123478-HexaBDF	<0.11	201	<0.13	201	<0.13	201	<0.12	201
1234678-HeptabromoBDF	<0.57	201	1.13i	121	4.44i	39	1.49i	89
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.005		0.053		0.044		0.015	
WHO TEQ (ng/kgfat) lower	0.005		0.069		0.044		0.015	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.005		0.085		0.044		0.015	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.084		0.105		0.115		0.106	
WHO TEQ (ng/kgfat) upper	0.180		0.218		0.251		0.230	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.276		0.331		0.387		0.354	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		0.004		0.001		0.002	
WHO TEQ (ng/kgWhole) lower	0.001		0.006		0.001		0.002	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.001		0.007		0.001		0.002	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.012		0.008		0.004		0.017	
WHO TEQ (ng/kgWhole) upper	0.025		0.018		0.008		0.038	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.038		0.027		0.013		0.058	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15321		15322		15323		15324	
LIMS Number	S07-013316		S07-013317		S07-013318		S07-013319	
Sample Details:	Large eggs		8 Lincolnshire sausages		Vintage extra mature cheddar		Wholemeal bread	
Fat % Whole	8.79		15.27		35.23		2.82	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.03	202	<0.01	202	<0.02	202	<0.04	202
2378-TetraBDD	<0.04	201	<0.01	201	<0.01	201	<0.02	201
12378-PentaBDD	<0.1	202	<0.02	202	<0.06	202	<0.13	202
123478/123678-HexaBDD	<0.14	201	<0.03	201	<0.14	201	<0.29	201
123789-HexaBDD	<0.16	202	<0.03	202	<0.13	202	<0.25	202
238-TriBDF	<0.04	201	<0.01	201	<0.07	201	<0.14	201
2378-TetraBDF	0.12	71	0.01	201	<0.03	201	<0.07	201
12378-PentaBDF	<0.09	201	<0.02	201	<0.04	201	<0.08	201
23478-PentaBDF	<0.1	201	<0.02	201	<0.08	201	<0.16	201
123478-HexaBDF	<0.17	201	<0.03	201	<0.18	201	<0.37	201
1234678-HeptabromoBDF	<0.88	201	<0.17	201	<0.58	201	<1.21	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.011		0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	0.012		0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.013		0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.123		0.024		0.076		0.157	
WHO TEQ (ng/kgfat) upper	0.262		0.053		0.166		0.344	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.401		0.082		0.256		0.531	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.011		0.004		0.027		0.004	
WHO TEQ (ng/kgWhole) upper	0.023		0.008		0.058		0.010	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.035		0.012		0.090		0.015	

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15326		15327		15328		15329	
LIMS Number	S07-013321		S07-013322		S07-013323		S07-013324	
Sample Details:	Rooster potatoes		Carrots - Class 1 (20 - 50mm)		Pure corn oil		Sweetcorn	
Fat % Whole	0.16		0.50		100.00		1.07	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.28	202	<0.07	202	<0.02	202	<0.07	202
2378-TetraBDD	<0.11	201	<0.03	201	<0.01	201	<0.04	201
12378-PentaBDD	<0.96	202	<0.23	202	<0.06	202	<0.23	202
123478/123678-HexaBDD	<1.98	201	<0.51	201	<0.14	201	<0.51	201
123789-HexaBDD	<1.69	202	<0.44	202	<0.12	202	<0.44	202
238-TriBDF	<0.98	201	0.26	194	<0.07	201	<0.25	201
2378-TetraBDF	0.51i	178	<0.12	201	0.04i	152	<0.12	201
12378-PentaBDF	<0.56	201	<0.19	201	<0.05	201	<0.15	201
23478-PentaBDF	<1.07	201	<0.28	201	<0.08	201	<0.28	201
123478-HexaBDF	<2.49	201	<0.64	201	<0.18	201	<0.64	201
1234678-HeptabromoBDF	14.15	118	2.45i	175	3.14	44	<2.13	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.175		0.025		0.032		<0.001	
WHO TEQ (ng/kgfat) lower	0.193		0.025		0.035		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.211		0.025		0.038		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	1.125		0.277		0.089		0.279	
WHO TEQ (ng/kgfat) upper	2.442		0.605		0.192		0.610	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	3.759		0.933		0.295		0.941	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		0.032		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		0.035		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		0.038		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.002		0.001		0.089		0.003	
WHO TEQ (ng/kgWhole) upper	0.004		0.003		0.192		0.007	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.006		0.005		0.295		0.010	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No. LIMS Number	15344 S07-013329 Superfast Oats		15345 S07-013330 Organic extra jam handmade strawberry preserve		15346 S07-013332 Jersey potatoes in water		15347 S07-013333 Olive oil - medium	
Sample Details: Fat % Whole	9.10		0.30		0.21		100.00	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.04	202	<1.5	202	<0.24	202	<0.02	202
2378-TetraBDD	<0.03	201	<0.64	201	<0.2	201	<0.02	201
12378-PentaBDD	<0.12	202	<4.5	202	<0.79	202	<0.07	202
123478/123678-HexaBDD	<0.25	201	<6.86	201	<0.71	201	<0.14	201
123789-HexaBDD	<0.22	202	<5.36	202	<1.27	202	<0.12	202
238-TriBDF	0.17	143	13.94	44	<0.47	201	<0.07	201
2378-TetraBDF	0.07	173	5.57i	73	<0.14	201	<0.03	201
12378-PentaBDF	<0.09	201	<2.68	201	<0.24	201	<0.04	201
23478-PentaBDF	0.24i	119	4.93	150	<0.71	201	<0.07	201
123478-HexaBDF	<0.32	201	<7.83	201	<0.79	201	<0.17	201
1234678-HeptabromoBDF	<1.05	201	588.90i	26	<2.0	201	<0.57	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.094		7.071		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	0.127		8.911		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.160		10.751		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.185		8.004		0.764		0.082	
WHO TEQ (ng/kgfat) upper	0.371		16.190		1.668		0.179	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.557		24.376		2.572		0.276	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.009		0.021		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	0.012		0.027		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.015		0.032		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.017		0.024		0.002		0.082	
WHO TEQ (ng/kgWhole) upper	0.034		0.049		0.004		0.179	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.051		0.073		0.005		0.276	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15348		15349		15350		15351	
LIMS Number	S07-013334		S07-013335		S07-013336		S07-013337	
Sample Details:	Red onions - Class 1 (40/60mm)		Somerset goat's cheese		British white potatoes - Osprey		Free range eggs - medium	
Fat % Whole	0.31		28.90		0.36		10.06	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.18	202	<0.02	202	<0.17	202	<0.03	202
2378-TetraBDD	<0.15	201	<0.01	201	<0.07	201	<0.03	201
12378-PentaBDD	<0.61	202	<0.06	202	<0.55	202	<0.13	202
123478/123678-HexaBDD	<0.55	201	<0.14	201	<1.21	201	<0.16	201
123789-HexaBDD	<0.97	202	<0.12	202	<1.14	202	<0.14	202
238-TriBDF	<0.36	201	<0.07	201	<0.6	201	0.08	127
2378-TetraBDF	<0.09	201	0.05	122	0.29i	195	0.11	130
12378-PentaBDF	<0.18	201	<0.04	201	<0.35	201	<0.09	201
23478-PentaBDF	<0.55	201	0.08	201	<0.66	201	<0.1	201
123478-HexaBDF	<0.61	201	<0.17	201	<1.52	201	<0.2	201
1234678-HeptabromoBDF	<1.49	201	<0.58	201	<5.03	201	<0.83	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.020		0.023		0.010	
WHO TEQ (ng/kgfat) lower	<0.001		0.045		0.029		0.011	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.070		0.035		0.012	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.586		0.077		0.657		0.132	
WHO TEQ (ng/kgfat) upper	1.281		0.166		1.434		0.284	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	1.976		0.255		2.211		0.436	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.006		<0.001		0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		0.013		<0.001		0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.020		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.002		0.022		0.002		0.013	
WHO TEQ (ng/kgWhole) upper	0.004		0.048		0.005		0.029	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.006		0.074		0.008		0.044	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No. LIMS Number	15358 S07-013358 Swede half		15363 S07-013363 MSC wild Alaskan salmon fillets		15364 S07-013364 Crispy oven fries		15366 S07-013368 12 organic large free range eggs	
Sample Details:	0.10		2.94		5.42		9.00	
Fat % Whole	0.10		2.94		5.42		9.00	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.54	202	<0.07	202	<0.02	202	<0.04	202
2378-TetraBDD	<0.54	201	<0.07	201	<0.02	201	<0.04	201
12378-PentaBDD	<2	202	<0.25	202	<0.09	202	<0.14	202
123478/123678-HexaBDD	<2.54	201	<0.32	201	<0.11	201	<0.18	201
123789-HexaBDD	<2.27	202	<0.31	202	<0.1	202	<0.16	202
238-TriBDF	2.09i	74	0.22	85	0.04	152	0.11	94
2378-TetraBDF	<1.15	201	<0.14	201	<0.05	201	<0.08	201
12378-PentaBDF	<1.27	201	<0.16	201	<0.06	201	<0.09	201
23478-PentaBDF	<1.63	201	<0.21	201	<0.07	201	<0.12	201
123478-HexaBDF	<3.18	201	<0.4	201	<0.14	201	<0.22	201
1234678-HeptabromoBDF	<13.06	201	<1.82	201	<0.57	201	<0.92	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	2.043		0.260		0.089		0.146	
WHO TEQ (ng/kgfat) upper	4.463		0.568		0.194		0.318	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	6.883		0.876		0.299		0.490	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.002		0.008		0.005		0.013	
WHO TEQ (ng/kgWhole) upper	0.004		0.017		0.011		0.029	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.007		0.026		0.016		0.044	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No. LIMS Number	15368 S07-013370 British parsnips		15369 S07-013371 Whole mackerel		15371 S07-013374 British classic tomatoes - Class 1		15373 S07-013376 6 Newmarket sausages	
Sample Details:	0.20		12.17		0.20		14.04	
Fat % Whole								
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.49	202	<0.06	103	<0.18	202	<0.02	202
2378-TetraBDD	<0.49	201	<0.03	201	<0.18	201	<0.02	201
12378-PentaBDD	<1.81	202	<0.12	202	<0.67	202	<0.09	202
123478/123678-HexaBDD	<2.31	201	<0.17	201	<0.85	201	<0.11	201
123789-HexaBDD	<2.06	202	<0.13	202	<0.76	202	<0.1	202
238-TriBDF	1.94	72	0.2 i	47	0.78	66	0.10i	65
2378-TetraBDF	<1.04	201	<0.16	201	<0.39	201	<0.05	201
12378-PentaBDF	<1.15	201	<0.07	201	<0.43	201	<0.05	201
23478-PentaBDF	1.69i	177	<0.1	201	0.67i	166	<0.07	201
123478-HexaBDF	<2.89	201	<0.19	201	<1.07	201	<0.14	201
1234678-HeptabromoBDF	<11.87	201	<0.76	201	<4.39	201	<0.57	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.472		<0.001		0.196		<0.001	
WHO TEQ (ng/kgfat) lower	0.845		<0.001		0.335		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	1.218		<0.001		0.474		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	1.947		0.126		0.738		0.088	
WHO TEQ (ng/kgfat) upper	4.151		0.276		1.557		0.193	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	6.355		0.426		2.376		0.298	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	0.002		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.002		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.004		0.015		0.001		0.012	
WHO TEQ (ng/kgWhole) upper	0.008		0.034		0.003		0.027	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.013		0.052		0.005		0.042	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15374		15375		15376		15377	
LIMS Number	S07-013377		S07-013378		S07-013379		S07-013380	
Sample Details:	Organic milk		Cooked prawns - shell-on		Ox kidney		Dressed Whitby crab	
Fat % Whole	3.20		2.17		8.7		6.24	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.02	202	0.13	81	<0.03	202	0.26	27
2378-TetraBDD	<0.02	201	<0.03	201	0.02	103	<0.01	201
12378-PentaBDD	<0.09	202	<0.35	202	<0.04	202	<0.17	202
123478/123678-HexaBDD	<0.11	201	<0.19	201	<0.09	201	<0.09	201
123789-HexaBDD	<0.1	202	<0.24	202	<0.16	202	<0.07	202
238-TriBDF	0.03i	201	0.44	112	<0.03	201	3.08	24
2378-TetraBDF	<0.05	201	0.27	85	<0.03	201	0.64	26
12378-PentaBDF	<0.06	201	<0.06	201	<0.04	201	<0.06	201
23478-PentaBDF	0.11	130	<0.29	201	0.12i	71	<0.09	201
123478-HexaBDF	<0.14	201	<0.51	201	<0.2	201	<0.16	201
1234678-HeptabromoBDF	<0.58	201	<2.68	201	<0.4	201	<0.83	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.037		0.026		0.025		0.063	
WHO TEQ (ng/kgfat) lower	0.055		0.027		0.080		0.064	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.073		0.028		0.135		0.065	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.105		0.317		0.106		0.157	
WHO TEQ (ng/kgfat) upper	0.214		0.676		0.174		0.332	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.323		1.035		0.242		0.507	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		0.001		0.002		0.004	
WHO TEQ (ng/kgWhole) lower	0.002		0.001		0.007		0.004	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.002		0.001		0.012		0.004	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.003		0.007		0.009		0.010	
WHO TEQ (ng/kgWhole) upper	0.007		0.015		0.015		0.021	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.010		0.022		0.021		0.032	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15378		15379		15387		15389	
LIMS Number	S07-013381		S07-013382		S07-013349		S07-013338	
Sample Details:	Boneless shoulder of lamb		Turkey breast		Leeks		6 free range duck eggs	
Fat % Whole	15.26		6.18		0.10		15.04	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.01	202	<0.01	202	<0.23	202	<0.06	202
2378-TetraBDD	0.03	71	<0.01	201	<0.15	201	0.04	103
12378-PentaBDD	<0.05	202	<0.09	202	<1.69	202	<0.11	202
123478/123678-HexaBDD	<0.03	201	<0.06	201	<0.92	201	<0.23	201
123789-HexaBDD	<0.03	202	<0.06	202	<1.15	202	<0.4	202
238-TriBDF	<0.03	201	<0.06	201	<1.14	201	<0.06	201
2378-TetraBDF	0.04	103	0.19	40	<0.54	201	0.14	131
12378-PentaBDF	<0.04	201	0.03	71	<0.77	201	<0.09	201
23478-PentaBDF	0.10i	84	<0.07	201	1.50i	187	<0.1	201
123478-HexaBDF	<0.07	201	<0.13	201	<2.46	201	<0.5	201
1234678-HeptabromoBDF	<0.37	201	<0.67	201	17.97	147	<1.01	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.050		0.020		0.489		0.023	
WHO TEQ (ng/kgfat) lower	0.084		0.021		0.930		0.054	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.118		0.022		1.371		0.085	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.098		0.089		1.541		0.189	
WHO TEQ (ng/kgfat) upper	0.153		0.187		3.315		0.342	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.208		0.285		5.089		0.495	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.008		0.001		0.001		0.003	
WHO TEQ (ng/kgWhole) lower	0.013		0.001		0.001		0.008	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.018		0.001		0.001		0.013	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.015		0.006		0.002		0.028	
WHO TEQ (ng/kgWhole) upper	0.023		0.012		0.003		0.051	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.032		0.018		0.005		0.074	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15390		15391		15395		15397	
LIMS Number	S07-013344		S07-013357		S07-013351		S07-013355	
Sample Details:	Welsh medium Cheddar		Welsh whole rainbow trout		Ox liver		Whole mackerel	
Fat % Whole	34.73		5.54		4.53		9.96	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.01	202	<0.02	202	<0.06	202	<0.01	202
2378-TetraBDD	<0.01	201	<0.01	201	<0.02	201	<0.03	201
12378-PentaBDD	<0.09	202	<0.13	202	<0.11	202	<0.06	202
123478/123678-HexaBDD	<0.07	201	<0.1	201	<0.22	201	<0.09	201
123789-HexaBDD	<0.07	202	<0.1	202	<0.39	202	<0.13	202
238-TriBDF	<0.06	201	<0.09	201	0.15i	84	<0.06	201
2378-TetraBDF	<0.03	201	0.08	103	0.22	85	0.06	71
12378-PentaBDF	<0.02	201	<0.08	201	<0.09	201	<0.06	201
23478-PentaBDF	<0.07	201	<0.11	201	1.43	28	<0.07	201
123478-HexaBDF	<0.13	201	<0.19	201	<0.5	201	<0.12	201
1234678-HeptabromoBDF	<0.67	201	<1.01	201	<0.99	201	<0.55	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.007		0.686		0.006	
WHO TEQ (ng/kgfat) lower	<0.001		0.008		0.737		0.006	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.009		0.788		0.006	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.079		0.119		0.543		0.082	
WHO TEQ (ng/kgfat) upper	0.173		0.256		0.992		0.174	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.267		0.393		1.441		0.266	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		0.031		0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		0.033		0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		0.036		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.028		0.007		0.025		0.008	
WHO TEQ (ng/kgWhole) upper	0.060		0.014		0.045		0.017	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.093		0.022		0.065		0.027	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15398		15400		15401		15403	
LIMS Number	S07-013356		S07-013350		S07-013372		S07-013341	
Sample Details:	Wild Alaskan salmon fillet		4 Scotch beef quarterpounders economy burgers		Cheese spread		Whole lemon sole	
Fat % Whole	3.41		20.15		15.28		1.23	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.05	202	<0.02	202	<0.02	202	<0.06	202
2378-TetraBDD	<0.03	201	<0.02	201	<0.02	201	<0.09	201
12378-PentaBDD	<0.1	202	<0.07	202	<0.05	202	<0.18	202
123478/123678-HexaBDD	<0.19	201	<0.12	201	<0.12	201	<0.29	201
123789-HexaBDD	<0.17	202	<0.09	202	<0.07	202	<0.4	202
238-TriBDF	<0.08	201	<0.05	201	0.08	127	<0.18	201
2378-TetraBDF	0.12i	103	<0.03	201	0.10i	84	<0.08	201
12378-PentaBDF	<0.14	201	<0.05	201	<0.05	201	<0.18	201
23478-PentaBDF	<0.12	201	0.13	81	0.07	173	<0.21	201
123478-HexaBDF	<0.24	201	<0.15	201	<0.15	201	<0.38	201
1234678-HeptabromoBDF	<0.7	201	<0.28	201	0.52	45	1.92	90
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.011		0.039		0.038		0.019	
WHO TEQ (ng/kgfat) lower	0.012		0.065		0.050		0.019	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.013		0.091		0.062		0.019	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.129		0.102		0.076		0.238	
WHO TEQ (ng/kgfat) upper	0.276		0.199		0.157		0.518	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.423		0.296		0.238		0.798	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.008		0.006		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		0.013		0.008		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.018		0.009		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.004		0.021		0.012		0.003	
WHO TEQ (ng/kgWhole) upper	0.009		0.040		0.024		0.006	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.014		0.060		0.036		0.010	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15404		15405		15419		15420	
LIMS Number	S07-013342		S07-013440		S07-013392		S07-013393	
Sample Details:	Cod fillet		Cheese & onion flavour potato crsips		Blackcurrant coulis		Free range organic eggs - medium	
Fat % Whole	0.64		32.80		0.65		10.26	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.06	202	<0.02	202	<0.09	202	<0.04	202
2378-TetraBDD	<0.11	201	<0.02	201	<0.07	201	<0.02	201
12378-PentaBDD	<0.22	202	<0.05	202	<0.29	202	<0.13	202
123478/123678-HexaBDD	<0.36	201	<0.11	201	<0.3	201	<0.18	201
123789-HexaBDD	<0.5	202	<0.07	202	<0.46	202	<0.13	202
238-TriBDF	0.42	107	<0.05	201	<0.17	201	<0.07	201
2378-TetraBDF	0.15i	122	<0.03	201	<0.05	201	0.10	103
12378-PentaBDF	<0.22	201	<0.05	201	<0.09	201	<0.08	201
23478-PentaBDF	<0.26	201	<0.06	201	<0.26	201	0.09	179
123478-HexaBDF	<0.46	201	<0.15	201	<0.4	201	<0.23	201
1234678-HeptabromoBDF	<2.32	201	<0.14	201	<0.71	201	0.58	57
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.014		<0.001		<0.001		0.041	
WHO TEQ (ng/kgfat) lower	0.015		<0.001		<0.001		0.061	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.016		<0.001		<0.001		0.081	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.298		0.064		0.285		0.129	
WHO TEQ (ng/kgfat) upper	0.641		0.140		0.623		0.269	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.984		0.216		0.961		0.409	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		0.004	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		0.006	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		0.008	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.002		0.021		0.002		0.013	
WHO TEQ (ng/kgWhole) upper	0.004		0.046		0.004		0.028	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.006		0.071		0.006		0.042	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15421	15422	15424	15425				
LIMS Number	S07-013394	S07-013395	S07-013397	S07-013398				
Sample Details:	Boneless British turkey breast joint	British pork boneless leg roast	4 haddock fillets	Cornish brie				
Fat % Whole	1.71	10.95	1.20	27.25				
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.05	202	<0.01	202	<0.06	202	<0.02	202
2378-TetraBDD	<0.03	201	<0.03	201	<0.04	201	<0.02	201
12378-PentaBDD	<0.1	202	<0.06	202	<0.14	202	<0.05	202
123478/123678-HexaBDD	<0.24	201	<0.09	201	<0.32	201	<0.11	201
123789-HexaBDD	<0.15	202	<0.13	202	<0.25	202	<0.06	202
238-TriBDF	<0.09	201	<0.06	201	<0.13	201	<0.05	201
2378-TetraBDF	<0.07	201	<0.02	201	<0.1	201	<0.03	201
12378-PentaBDF	<0.1	201	<0.06	201	<0.14	201	<0.05	201
23478-PentaBDF	0.13	171	<0.07	201	<0.15	201	0.07	145
123478-HexaBDF	<0.31	201	<0.12	201	<0.41	201	<0.15	201
1234678-HeptabromoBDF	1.68	34	<0.54	201	<0.47	201	<0.14	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.047		<0.001		<0.001		0.010	
WHO TEQ (ng/kgfat) lower	0.082		<0.001		<0.001		0.035	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.117		<0.001		<0.001		0.060	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.139		0.077		0.172		0.070	
WHO TEQ (ng/kgfat) upper	0.294		0.169		0.375		0.144	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.449		0.261		0.578		0.218	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		<0.001		<0.001		0.003	
WHO TEQ (ng/kgWhole) lower	0.001		<0.001		<0.001		0.010	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.002		<0.001		<0.001		0.016	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.002		0.008		0.002		0.019	
WHO TEQ (ng/kgWhole) upper	0.005		0.019		0.005		0.039	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.008		0.029		0.007		0.060	

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15426		15427		15429		15430	
LIMS Number	S07-013399		S07-013400		S07-013402		S07-013403	
	Whole herring		Plaice fillets		Lambs liver		Local venison fillet	
Sample Details:								
Fat % Whole	17.56		1.31		6.81		2.52	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.01	202	<0.05	202	<0.02	202	<0.03	202
2378-TetraBDD	<0.03	201	<0.03	201	<0.06	201	<0.02	201
12378-PentaBDD	<0.05	202	<0.11	202	<0.07	202	<0.08	202
123478/123678-HexaBDD	<0.11	201	<0.23	201	<0.13	201	<0.16	201
123789-HexaBDD	<0.13	202	<0.2	202	<0.18	202	<0.09	202
238-TriBDF	<0.05	201	<0.09	201	0.10i	142	<0.07	201
2378-TetraBDF	<0.02	201	<0.07	201	0.15	47	<0.05	201
12378-PentaBDF	<0.05	201	<0.1	201	<0.09	201	<0.07	201
23478-PentaBDF	<0.07	201	<0.11	201	1.49	26	<0.08	201
123478-HexaBDF	<0.12	201	<0.3	201	<0.16	201	<0.21	201
1234678-HeptabromoBDF	<0.26	201	0.33	118	<0.31	201	0.25	115
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.003		0.715		0.003	
WHO TEQ (ng/kgfat) lower	<0.001		0.003		0.760		0.003	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.003		0.805		0.003	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.072		0.130		0.521		0.090	
WHO TEQ (ng/kgfat) upper	0.158		0.283		0.945		0.197	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.244		0.436		1.369		0.304	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		0.049		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		0.052		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		0.055		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.013		0.002		0.035		0.002	
WHO TEQ (ng/kgWhole) upper	0.028		0.004		0.064		0.005	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.043		0.006		0.093		0.008	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15442		15443		15444		15445	
LIMS Number	S07-013410		S07-013411		S07-013412		S07-013413	
Sample Details:	Black pudding		Rump steak for braising		Rolled shoulder of lamb		Venison haugh joints	
Fat % Whole	30.39		3.55		18.17		2.82	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.04	202	<0.01	202	<0.01	202	<0.04	202
2378-TetraBDD	<0.03	201	<0.04	201	<0.03	201	<0.03	201
12378-PentaBDD	<0.06	202	<0.17	202	<0.07	202	<0.04	202
123478/123678-HexaBDD	<0.11	201	<0.15	201	<0.09	201	<0.11	201
123789-HexaBDD	<0.15	202	<0.16	202	<0.12	202	<0.15	202
238-TriBDF	<0.05	201	<0.07	201	<0.05	201	<0.05	201
2378-TetraBDF	<0.05	201	0.04	152	0.05	84	<0.05	201
12378-PentaBDF	<0.04	201	<0.07	201	<0.06	201	0.07i	117
23478-PentaBDF	<0.12	201	<0.09	201	<0.07	201	0.18	135
123478-HexaBDF	<0.07	201	<0.15	201	<0.11	201	0.59	34
1234678-HeptabromoBDF	<0.46	201	2.75i	34	1.02	55	4.89	28
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.030		0.014		0.162	
WHO TEQ (ng/kgfat) lower	<0.001		0.032		0.015		0.201	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.034		0.016		0.240	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.089		0.156		0.087		0.154	
WHO TEQ (ng/kgfat) upper	0.195		0.336		0.185		0.302	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.301		0.516		0.283		0.450	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.001		0.003		0.005	
WHO TEQ (ng/kgWhole) lower	<0.001		0.001		0.003		0.006	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.001		0.003		0.007	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.027		0.006		0.016		0.004	
WHO TEQ (ng/kgWhole) upper	0.059		0.012		0.034		0.009	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.091		0.018		0.051		0.013	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No. LIMS Number	15450 S07-013418 Whole herring		15451 S07-013419 Cod fillet		15452 S07-013420 Farmed salmon fillet - Freedom Food RSPCA monitored		15487 S07-013405 Free range duck eggs	
Sample Details:	24.08		0.72		11.67		16.23	
Fat % Whole ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.03	202	<0.34	202	<0.04	202	<0.05	202
2378-TetraBDD	<0.03	201	<0.27	201	<0.03	201	<0.04	201
12378-PentaBDD	<0.11	202	<0.46	202	<0.05	202	<0.14	202
123478/123678-HexaBDD	<0.1	201	<1.03	201	<0.11	201	<0.15	201
123789-HexaBDD	<0.15	202	<1.44	202	<0.15	202	<0.21	202
238-TriBDF	0.10i	103	<0.46	201	0.11i	94	<0.07	201
2378-TetraBDF	<0.05	201	<0.46	201	0.06	168	0.24	63
12378-PentaBDF	<0.05	201	<0.44	201	<0.07	201	<0.08	201
23478-PentaBDF	<0.12	201	<1.18	201	<0.12	201	<0.17	201
123478-HexaBDF	<0.09	201	<1.03	201	<0.07	201	<0.1	201
1234678-HeptabromoBDF	1.59	48	12.66	57	0.63	111	2.95	40
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.016		0.126		0.011		0.052	
WHO TEQ (ng/kgfat) lower	0.016		0.127		0.012		0.054	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.016		0.128		0.013		0.056	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.118		0.856		0.087		0.174	
WHO TEQ (ng/kgfat) upper	0.257		1.865		0.189		0.369	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.396		2.874		0.291		0.564	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.004		0.001		0.001		0.008	
WHO TEQ (ng/kgWhole) lower	0.004		0.001		0.001		0.009	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.004		0.001		0.001		0.009	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.028		0.006		0.010		0.028	
WHO TEQ (ng/kgWhole) upper	0.062		0.013		0.022		0.060	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.095		0.021		0.034		0.092	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15488		15493		15498	
LIMS Number	S07-013423		S07-013438		S07-013434	
Sample Details:	Mini Pringles savoury snack		Somerset brie		Dover sole	
Fat % Whole	30.70		24.15		1.21	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.04	202	<0.02	202	<0.03	202
2378-TetraBDD	<0.03	201	<0.03	201	<0.09	201
12378-PentaBDD	<0.04	202	<0.08	202	<0.18	202
123478/123678-HexaBDD	<0.11	201	<0.09	201	<0.41	201
123789-HexaBDD	<0.15	202	<0.12	202	<0.4	202
238-TriBDF	<0.05	201	<0.05	201	<0.18	201
2378-TetraBDF	<0.05	201	0.03i	135	<0.09	201
12378-PentaBDF	<0.04	201	<0.05	201	<0.18	201
23478-PentaBDF	<0.12	201	<0.07	201	<0.22	201
123478-HexaBDF	<0.11	201	<0.12	201	<0.38	201
1234678-HeptabromoBDF	<0.34	201	1.18	50	<2.02	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.014		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		0.015		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.016		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.081		0.091		0.246	
WHO TEQ (ng/kgfat) upper	0.177		0.195		0.537	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.273		0.299		0.828	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.003		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		0.004		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.004		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.025		0.022		0.003	
WHO TEQ (ng/kgWhole) upper	0.054		0.047		0.006	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.084		0.072		0.010	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15499		15500		15501		15503	
LIMS Number	S07-013435		S07-013436		S07-013432		S07-013437	
Sample Details:	Plaice fillets		Venison liver		Lambs kidney		Pure sunflower oil	
Fat % Whole	2.59		3.43		3.33		100.00	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.04	202	<0.02	202	<0.02	202	<0.02	202
2378-TetraBDD	<0.03	201	0.06i	71	<0.03	201	<0.02	201
12378-PentaBDD	<0.12	202	<0.08	202	<0.08	202	<0.08	202
123478/123678-HexaBDD	<0.4	201	<0.25	201	<0.25	201	<0.25	201
123789-HexaBDD	<0.33	202	<0.2	202	<0.2	202	<0.2	202
238-TriBDF	<0.12	201	<0.07	201	<0.07	201	<0.07	201
2378-TetraBDF	<0.07	201	0.70	27	<0.04	201	<0.04	201
12378-PentaBDF	<0.06	201	0.17i	53	<0.04	201	<0.07	201
23478-PentaBDF	<0.07	201	1.71	24	<0.08	201	<0.08	201
123478-HexaBDF	<0.25	201	<0.26	201	<0.17	201	<0.16	201
1234678-HeptabromoBDF	2.47	56	<0.39	201	<0.39	201	<0.39	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.025		0.774		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	0.025		0.994		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.025		1.214		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.146		0.780		0.102		0.097	
WHO TEQ (ng/kgfat) upper	0.318		1.148		0.222		0.212	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.490		1.516		0.342		0.327	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		0.027		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	0.001		0.034		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.001		0.042		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.004		0.027		0.003		0.097	
WHO TEQ (ng/kgWhole) upper	0.008		0.039		0.007		0.212	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.013		0.052		0.011		0.327	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No. LIMS Number	15508		15509		15510		15511	
	S07-013454		S07-013452		S07-013453		S07-013456	
Sample Details:	Smoked eel		Medium half fat cheese food slices		Duddleswell sheeps milk cheese		Wild Atlantic salmon	
Fat % Whole	39.10		10.41		35.00		9.04	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.03	202	<0.02	202	<0.02	202	<0.02	202
2378-TetraBDD	<0.02	201	<0.02	201	<0.02	201	<0.02	201
12378-PentaBDD	<0.08	202	<0.08	202	<0.08	202	<0.07	202
123478/123678-HexaBDD	<0.07	201	<0.07	201	<0.18	201	<0.14	201
123789-HexaBDD	<0.13	202	<0.13	202	<0.16	202	<0.07	202
238-TriBDF	0.10i	103	<0.05	201	<0.05	201	<0.04	201
2378-TetraBDF	<0.02	201	0.02	103	0.03i	71	0.05i	122
12378-PentaBDF	<0.03	201	<0.03	201	<0.02	201	<0.01	201
23478-PentaBDF	<0.07	201	<0.07	201	<0.07	201	<0.06	201
123478-HexaBDF	<0.13	201	<0.08	201	<0.18	201	<0.16	201
1234678-HeptabromoBDF	<0.46	201	<0.2	201	<0.22	201	<0.42	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.002		0.003		0.004	
WHO TEQ (ng/kgfat) lower	<0.001		0.002		0.003		0.005	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.002		0.003		0.006	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.081		0.079		0.091		0.078	
WHO TEQ (ng/kgfat) upper	0.176		0.169		0.193		0.167	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.271		0.259		0.295		0.256	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.032		0.008		0.032		0.007	
WHO TEQ (ng/kgWhole) upper	0.069		0.018		0.068		0.015	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.106		0.027		0.103		0.023	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15512		15513		15516		15526	
LIMS Number	S07-013447		S07-013459		S07-013446		S07-013470	
Sample Details:	Whole Cornish sardines		Pasteurised ewes milk		Whole Cornish sardines - frozen		Lambs kidney	
Fat % Whole	15.07		6.53		5.53		3.70	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.02	202	<0.02	202	<0.02	202	<0.03	202
2378-TetraBDD	<0.02	201	<0.02	201	<0.02	201	<0.03	201
12378-PentaBDD	<0.07	202	<0.08	202	<0.07	202	<0.08	202
123478/123678-HexaBDD	<0.14	201	<0.14	201	<0.14	201	<0.28	201
123789-HexaBDD	<0.07	202	<0.07	202	<0.07	202	<0.26	202
238-TriBDF	<0.04	201	<0.04	201	0.14i	62	<0.05	201
2378-TetraBDF	<0.03	201	<0.03	201	<0.03	201	<0.04	201
12378-PentaBDF	<0.04	201	<0.03	201	<0.03	201	<0.06	201
23478-PentaBDF	<0.06	201	0.09	135	<0.06	201	<0.08	201
123478-HexaBDF	<0.16	201	<0.16	201	<0.16	201	<0.16	201
1234678-HeptabromoBDF	<0.42	201	<0.42	201	<0.42	201	<0.55	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.015		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		0.045		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.075		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.076		0.093		0.076		0.107	
WHO TEQ (ng/kgfat) upper	0.166		0.191		0.166		0.233	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.256		0.289		0.256		0.359	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		0.003		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.005		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.011		0.006		0.004		0.004	
WHO TEQ (ng/kgWhole) upper	0.025		0.012		0.009		0.009	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.039		0.019		0.014		0.013	

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No. LIMS Number	15527 S07-013471	15528 S07-013472	15529 S07-013473	15530 S07-013474				
Sample Details:	Pork liver	Fresh chicken legs - boneless	Chicken livers	British pork sliced liver				
Fat % Whole	3.69	15.23	4.55	3.82				
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.03	202	<0.03	202	<0.03	202	<0.04	202
2378-TetraBDD	<0.01	201	<0.01	201	<0.01	201	<0.02	201
12378-PentaBDD	<0.08	202	<0.10	202	<0.12	202	<0.11	202
123478/123678-HexaBDD	<0.15	201	<0.13	201	<0.13	201	<0.16	201
123789-HexaBDD	<0.13	202	<0.10	202	<0.15	202	<0.16	202
238-TriBDF	0.06	168	<0.05	201	<0.05	201	<0.06	201
2378-TetraBDF	<0.04	201	0.11	77	0.11	77	<0.05	201
12378-PentaBDF	<0.07	201	<0.05	201	<0.07	201	<0.07	201
23478-PentaBDF	0.29i	54	0.20	74	<0.07	201	0.44	47
123478-HexaBDF	<0.12	201	<0.11	201	<0.17	201	<0.19	201
1234678-HeptabromoBDF	1.04	110	1.68i	70	<0.56	201	<0.71	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.141		0.109		0.010		0.168	
WHO TEQ (ng/kgfat) lower	0.155		0.128		0.011		0.220	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.169		0.147		0.012		0.272	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.154		0.145		0.108		0.220	
WHO TEQ (ng/kgfat) upper	0.293		0.274		0.230		0.417	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.432		0.403		0.352		0.614	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.005		0.017		<0.001		0.006	
WHO TEQ (ng/kgWhole) lower	0.006		0.019		0.001		0.008	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.006		0.022		0.001		0.010	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.006		0.022		0.005		0.008	
WHO TEQ (ng/kgWhole) upper	0.011		0.042		0.010		0.016	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.016		0.061		0.016		0.023	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15534		15554		15555		15557	
LIMS Number	S07-013478		S07-013460		S07-013461		S07-013485	
	Chicken liver		Mirror carp		Whitebait		Ox liver	
Sample Details:								
Fat % Whole	5.31		4.95		9.08		3.30	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.03	202	<0.04	202	0.05	162	<0.05	202
2378-TetraBDD	<0.01	201	<0.01	201	<0.01	201	<0.03	201
12378-PentaBDD	<0.08	202	<0.08	202	<0.11	202	<0.14	202
123478/123678-HexaBDD	<0.21	201	<0.1	201	<0.1	201	<0.21	201
123789-HexaBDD	<0.2	202	<0.06	202	<0.06	202	<0.21	202
238-TriBDF	<0.05	201	<0.06	201	0.50i	34	<0.08	201
2378-TetraBDF	0.09	92	<0.04	201	<0.04	201	0.08	152
12378-PentaBDF	<0.07	201	<0.03	201	<0.05	201	<0.07	201
23478-PentaBDF	0.66	32	0.11i	112	<0.06	201	0.38	63
123478-HexaBDF	<0.17	201	<0.1	201	<0.11	201	<0.23	201
1234678-HeptabromoBDF	<0.55	201	<0.61	201	<0.61	201	<0.92	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.296		0.024		<0.001		0.152	
WHO TEQ (ng/kgfat) lower	0.339		0.055		<0.001		0.198	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.382		0.086		<0.001		0.244	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.270		0.091		0.087		0.234	
WHO TEQ (ng/kgfat) upper	0.496		0.183		0.190		0.446	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.722		0.275		0.293		0.658	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.016		0.001		<0.001		0.005	
WHO TEQ (ng/kgWhole) lower	0.018		0.003		<0.001		0.007	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.020		0.004		<0.001		0.008	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.014		0.005		0.008		0.008	
WHO TEQ (ng/kgWhole) upper	0.026		0.009		0.017		0.015	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.038		0.014		0.027		0.022	

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No. LIMS Number	15558 S07-013488 Duck liver pâté with wine		15564 S07-013482 Wild Atlantic salmon		15565 S07-013480 Whitebait		15566 S07-013483 Sprats	
Sample Details:	25.49		7.79		2.07		21.64	
Fat % Whole	25.49		7.79		2.07		21.64	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.05	202	<0.04	202	0.10	103	<0.04	202
2378-TetraBDD	<0.02	201	<0.01	201	<0.02	201	<0.01	201
12378-PentaBDD	<0.14	202	<0.08	202	<0.1	202	<0.08	202
123478/123678-HexaBDD	<0.21	201	<0.1	201	<0.15	201	<0.1	201
123789-HexaBDD	<0.17	202	<0.06	202	<0.18	202	<0.06	202
238-TriBDF	<0.08	201	0.15i	84	0.37i	49	<0.06	201
2378-TetraBDF	<0.06	201	0.13	66	0.26	45	<0.04	201
12378-PentaBDF	<0.07	201	<0.05	201	<0.03	201	<0.02	201
23478-PentaBDF	<0.11	201	0.05	201	<0.08	201	<0.06	201
123478-HexaBDF	<0.18	201	<0.09	201	<0.19	201	<0.09	201
1234678-HeptabromoBDF	<0.92	201	<0.59	201	<0.75	201	<0.6	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.024		0.026		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		0.038		0.026		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.052		0.026		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.133		0.076		0.117		0.071	
WHO TEQ (ng/kgfat) upper	0.290		0.161		0.247		0.156	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.447		0.246		0.377		0.241	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.002		0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		0.003		0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.004		0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.034		0.006		0.002		0.015	
WHO TEQ (ng/kgWhole) upper	0.074		0.013		0.005		0.034	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.114		0.019		0.008		0.052	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15567		15569		15574		15579	
LIMS Number	S07-013479		S07-013490		S07-013495		S07-013500	
	English sprats		Spinach - Class 1		6 free range eggs - large		Pigs kidney	
Sample Details:	23.15		0.36		8.94		3.07	
Fat % Whole	23.15		0.36		8.94		3.07	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.04	202	0.14	202	<0.05	202	<0.05	202
2378-TetraBDD	<0.01	201	<0.04	201	<0.02	201	<0.02	201
12378-PentaBDD	<0.07	202	<0.27	202	<0.14	202	<0.14	202
123478/123678-HexaBDD	<0.09	201	<0.32	201	<0.21	201	<0.21	201
123789-HexaBDD	<0.06	202	<0.43	202	<0.17	202	<0.17	202
238-TriBDF	<0.06	201	0.84	53	<0.08	201	<0.08	201
2378-TetraBDF	<0.04	201	0.36i	81	0.14	89	<0.06	201
12378-PentaBDF	<0.03	201	<0.1	201	<0.1	201	<0.07	201
23478-PentaBDF	<0.05	201	0.52i	73	<0.11	201	<0.11	201
123478-HexaBDF	<0.09	201	<0.39	201	<0.18	201	<0.21	201
1234678-HeptabromoBDF	1.91	63	15.5	35	1.78i	106	<0.93	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.019		0.441		0.030		<0.001	
WHO TEQ (ng/kgfat) lower	0.019		0.451		0.032		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.019		0.461		0.034		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.071		0.465		0.144		0.134	
WHO TEQ (ng/kgfat) upper	0.154		0.880		0.308		0.293	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.237		1.295		0.472		0.452	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.004		0.002		0.003		<0.001	
WHO TEQ (ng/kgWhole) lower	0.004		0.002		0.003		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.004		0.002		0.003		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.016		0.002		0.013		0.004	
WHO TEQ (ng/kgWhole) upper	0.036		0.003		0.028		0.009	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.055		0.005		0.042		0.014	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	15580		15654	
LIMS Number	S07-013502		S07-013506	
Sample Details:	Boneless chicken thighs		Eels	
Fat % Whole	17.83		30.70	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.04	202	<0.08	202
2378-TetraBDD	<0.01	201	<0.02	201
12378-PentaBDD	<0.08	202	<0.17	202
123478/123678-HexaBDD	<0.1	201	<0.18	201
123789-HexaBDD	<0.06	202	<0.11	202
238-TriBDF	<0.06	201	<0.12	201
2378-TetraBDF	<0.04	201	<0.08	201
12378-PentaBDF	<0.03	201	<0.03	201
23478-PentaBDF	<0.06	201	0.11	183
123478-HexaBDF	<0.1	201	<0.18	201
1234678-HeptabromoBDF	<0.61	201	<1.13	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.005	
WHO TEQ (ng/kgfat) lower	<0.001		0.055	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.105	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.072		0.146	
WHO TEQ (ng/kgfat) upper	0.158		0.313	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.244		0.480	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		0.017	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.032	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.013		0.045	
WHO TEQ (ng/kgWhole) upper	0.028		0.096	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.043		0.147	

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	16143		16145		16150	
LIMS No.	S07-013510		S07-013512		S07-013517	
Sample Details:	Traditional lamb, sliced liver		Premium pork sausages		Jellied eels	
Fat % Whole	8.15		23.88		10.61	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.02	202	<0.01	202	<0.02	202
2378-TetraBDD	0.07	89	<0.02	201	<0.03	201
12378-PentaBDD	<0.1	202	<0.07	202	<0.09	202
123478/123678-HexaBDD	<0.27	201	<0.18	201	<0.25	201
123789-HexaBDD	<0.12	202	<0.06	202	<0.1	202
238-TriBDF	<0.03	201	0.03i	135	<0.05	201
2378-TetraBDF	0.15	71	<0.03	201	<0.04	201
12378-PentaBDF	<0.09	201	<0.06	201	<0.08	201
23478-PentaBDF	3.40	25	<0.06	201	<0.08	201
123478-HexaBDF	1.01	59	<0.18	201	<0.25	201
1234678-HeptabromoBDF	<0.65	201	<0.45	201	<0.6	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	1.347		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	1.886		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	2.425		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	1.354		0.079		0.107	
WHO TEQ (ng/kgfat) upper	2.036		0.173		0.234	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	2.718		0.267		0.361	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.110		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	0.154		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.197		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.110		0.019		0.011	
WHO TEQ (ng/kgWhole) upper	0.166		0.041		0.025	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.221		0.064		0.038	

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	16151		16159		16165	
LIMS No.	S07-013518		S07-013526		S07-013532	
Sample Details:	Smoked eel		Lochmuir Scottish salmon portions		Wild venison liver	
Fat % Whole	35.66		16.54		6.08	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.02	202	<0.01	202	<0.02	202
2378-TetraBDD	<0.03	201	<0.02	201	<0.03	201
12378-PentaBDD	<0.09	202	<0.06	202	<0.15	202
123478/123678-HexaBDD	<0.24	201	<0.17	201	<0.3	201
123789-HexaBDD	<0.08	202	<0.05	202	<0.17	202
238-TriBDF	<0.03	201	<0.02	201	<0.04	201
2378-TetraBDF	<0.04	201	0.04	152	<0.05	201
12378-PentaBDF	<0.08	201	<0.05	201	<0.1	201
23478-PentaBDF	0.13i	125	<0.05	201	0.15i	135
123478-HexaBDF	<0.24	201	<0.17	201	<0.3	201
1234678-HeptabromoBDF	<0.6	201	<0.4	201	<0.74	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.024		0.003		0.024	
WHO TEQ (ng/kgfat) lower	0.065		0.004		0.075	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.106		0.005		0.126	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.126		0.072		0.170	
WHO TEQ (ng/kgfat) upper	0.255		0.155		0.349	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.384		0.238		0.528	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.009		0.001		0.001	
WHO TEQ (ng/kgWhole) lower	0.023		0.001		0.005	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.038		0.001		0.008	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.045		0.012		0.010	
WHO TEQ (ng/kgWhole) upper	0.091		0.026		0.021	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.137		0.039		0.032	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	16166		16169		16170	
LIMS No.	S07-013533		S07-013536		S07-013537	
Sample Details:	Whole Cornish mackerel		Prime boneless salmon fillets		Cumberland pork sausages	
Fat % Whole	24.81		15.53		12.15	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.02	202	<0.02	202	<0.02	202
2378-TetraBDD	<0.02	201	<0.02	201	<0.01	201
12378-PentaBDD	<0.08	202	<0.07	202	<0.14	202
123478/123678-HexaBDD	<0.22	201	<0.19	201	<0.21	201
123789-HexaBDD	<0.1	202	<0.08	202	<0.11	202
238-TriBDF	0.05i	122	0.03i	135	<0.08	201
2378-TetraBDF	0.05i	162	0.10	65	<0.07	201
12378-PentaBDF	<0.07	201	<0.06	201	<0.09	201
23478-PentaBDF	<0.07	201	<0.06	201	0.17i	190
123478-HexaBDF	<0.22	201	<0.19	201	<0.88	201
1234678-HeptabromoBDF	1.20	95	<0.45	201	<1.53	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.016		0.010		0.004	
WHO TEQ (ng/kgfat) lower	0.017		0.010		0.085	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.018		0.010		0.166	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.097		0.087		0.177	
WHO TEQ (ng/kgfat) upper	0.210		0.184		0.382	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.323		0.281		0.587	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.004		0.002		0.001	
WHO TEQ (ng/kgWhole) lower	0.004		0.002		0.010	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.004		0.002		0.020	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.024		0.013		0.021	
WHO TEQ (ng/kgWhole) upper	0.052		0.029		0.046	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.080		0.044		0.071	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	16172		16173		16184	
LIMS No.	S07-013539		S07-013540		S07-013551	
Sample Details:	Farmed red deer liver		Lambs liver		Whole mackerel (gutted by fishmonger)	
Fat % Whole	5.90		6.44		2.06	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	<0.02	202	<0.02	202	0.03	136
2378-TetraBDD	0.03	201	<0.03	201	<0.02	201
12378-PentaBDD	<0.12	202	<0.1	202	<0.16	202
123478/123678-HexaBDD	<0.32	201	<0.27	201	<0.29	201
123789-HexaBDD	<0.18	202	<0.09	202	<0.22	202
238-TriBDF	<0.04	201	0.06	135	0.14i	159
2378-TetraBDF	0.47	35	<0.05	201	<0.1	201
12378-PentaBDF	0.35	62	<0.09	201	<0.13	201
23478-PentaBDF	1.52	28	0.09	201	<0.23	201
123478-HexaBDF	0.87	77	<0.27	201	<1.24	201
1234678-HeptabromoBDF	10.44	28	<0.65	201	2.35	185
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.645		0.022		0.024	
WHO TEQ (ng/kgfat) lower	1.046		0.045		0.024	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	1.447		0.068		0.024	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.694		0.116		0.234	
WHO TEQ (ng/kgfat) upper	1.216		0.254		0.510	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	1.738		0.392		0.786	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.038		0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	0.062		0.003		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.085		0.004		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.041		0.007		0.005	
WHO TEQ (ng/kgWhole) upper	0.072		0.016		0.011	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.103		0.025		0.016	

i - indicative value

Table 2(cont'd): Concentrations of PBDDs and PBDFs

CSL Sample No.	16186		16189	
LIMS No.	S07-013553		S08-009817	
Sample Details:	Herring (filleted by fishmonger)		Herring (filleted by fishmonger)	
Fat % Whole	19.42		9.68	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U
237-TriBDD	0.02	103	<0.03	202
2378-TetraBDD	<0.02	201	<0.03	201
12378-PentaBDD	<0.13	202	<0.13	202
123478/123678-HexaBDD	<0.2	201	<0.26	201
123789-HexaBDD	<0.11	202	<0.08	202
238-TriBDF	0.04	152	<0.03	201
2378-TetraBDF	0.05	122	<0.06	201
12378-PentaBDF	<0.06	201	<0.08	201
23478-PentaBDF	<0.07	201	0.11	165
123478-HexaBDF	<0.2	201	<0.26	201
1234678-HeptabromoBDF	<0.48	201	0.64	198
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.005		0.035	
WHO TEQ (ng/kgfat) lower	0.005		0.061	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.005		0.087	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.116		0.138	
WHO TEQ (ng/kgfat) upper	0.249		0.291	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.382		0.444	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		0.003	
WHO TEQ (ng/kgWhole) lower	0.001		0.006	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.001		0.008	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.022		0.013	
WHO TEQ (ng/kgWhole) upper	0.048		0.028	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.074		0.043	

Table 3: Concentrations of non-ortho PBBs

CSL Sample No.	15311		15312		15313		15314		15315		15316	
LIMS Number	S07-013306		S07-013307		S07-013308		S07-013309		S07-013310		S07-013311	
Sample Details:	Mushy peas		Cauliflower - Class II		New Zealand sliced lambs liver		Rainbow trout		Organic boned Scottish salmon fillets		English lamb hearts	
Fat % Whole	0.62		0.44		7.10		6.93		13.80		8.07	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.27	201	<0.23	201	<0.07	201	0.21	62	0.22	51	<0.06	201
PBB126	<0.25	201	<0.12	201	<0.04	201	<0.06	201	<0.02	201	<0.03	201
PBB169	<0.35	201	<0.3	201	<0.09	201	<0.07	201	<0.06	201	<0.07	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.027		0.014		0.005		0.006		0.003		0.004	
WHO TEQ (ng/kgfat) upper	0.029		0.015		0.005		0.007		0.003		0.004	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.031		0.016		0.005		0.008		0.003		0.004	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		<0.001		<0.001		0.001		<0.001		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15317		15320		15321		15322		15323		15324	
LIMS Number	S07-013312		S07-013315		S07-013316		S07-013317		S07-013318		S07-013319	
Sample Details:	Best braising steak		Boneless leg of pork		Large eggs		8 Lincolnshire sausages		Vintage extra mature cheddar		Wholemeal bread	
Fat % Whole	3.29		16.50		8.79		15.27		35.23		2.82	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	0.06	168	<0.05	201	<0.07	201	0.01	201	<0.07	201	<0.14	201
PBB126	<0.06	201	<0.08	201	<0.06	201	<0.01	201	<0.07	201	<0.14	201
PBB169	<0.07	201	<0.07	201	<0.09	201	<0.02	201	<0.12	201	<0.24	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.006		0.008		0.006		0.001		0.007		0.015	
WHO TEQ (ng/kgfat) upper	0.007		0.009		0.007		0.001		0.008		0.016	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.008		0.010		0.008		0.001		0.009		0.017	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		0.001		0.001		<0.001		0.003		<0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		0.001		0.001		<0.001		0.003		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.002		0.001		<0.001		0.003		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15326		15327		15328		15329		15344		15345	
LIMS Number	S07-013321		S07-013322		S07-013323		S07-013324		S07-013329		S07-013330	
Sample Details:	Rooster potatoes		Carrots - Class 1 (20 - 50mm)		Pure corn oil		Sweetcorn		Superfast Oats		Organic extra jam handmade strawberry preserve	
Fat % Whole	0.16		0.50		100.00		1.07		9.10		0.30	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.96	201	<0.25	201	<0.07	201	<0.25	201	<0.12	201	3.32i	184
PBB126	<0.96	201	<0.25	201	<0.07	201	<0.25	201	<0.12	201	<2.79	201
PBB169	<1.64	201	<0.42	201	<0.12	201	<0.42	201	<0.21	201	<5.57	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.104		0.027		0.007		0.027		0.013		0.310	
WHO TEQ (ng/kgfat) upper	0.112		0.029		0.008		0.029		0.014		0.335	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.120		0.031		0.009		0.031		0.015		0.360	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		<0.001		0.007		<0.001		0.001		0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		<0.001		0.008		<0.001		0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		<0.001		0.009		<0.001		0.001		0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15346		15347		15348		15349		15350		15351	
LIMS Number	S07-013332		S07-013333		S07-013334		S07-013335		S07-013336		S07-013337	
Sample Details:	Jersey potatoes in water		Olive oil - medium		Red onions - Class 1 (40/60mm)		Somerset goat's cheese		British white potatoes - Osprey		Free range eggs - medium	
Fat % Whole	0.21		100.00		0.31		28.90		0.36		10.06	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.65	201	<0.07	201	<0.5	201	<0.07	201	<0.59	201	<0.1	201
PBB126	<0.44	201	<0.07	201	<0.33	201	<0.07	201	<0.59	201	<0.06	201
PBB169	<0.32	201	<0.11	201	<0.24	201	<0.12	201	<1.0	201	<0.06	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.044		0.007		0.032		0.007		0.064		0.006	
WHO TEQ (ng/kgfat) upper	0.047		0.008		0.035		0.008		0.069		0.007	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.050		0.009		0.038		0.009		0.074		0.008	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		0.007		<0.001		0.002		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		0.008		<0.001		0.002		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.009		<0.001		0.002		<0.001		0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15358		15363		15364		15366		15368		15369	
LIMS Number	S07-013358		S07-013363		S07-013364		S07-013368		S07-013370		S07-013371	
Sample Details:	Swede half		MSC wild Alaskan salmon fillets		Crispy oven fries		12 organic large free range eggs		British parsnips		Whole mackerel	
Fat % Whole	0.10		2.94		5.42		9.00		0.20		12.17	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<1.52	201	<0.19	201	<0.07	201	<0.11	201	<1.38	201	0.33i	60
PBB126	<1.00	201	<0.16	201	<0.04	201	<0.1	201	<1.11	201	<0.06	201
PBB169	<1.00	201	<0.11	201	<0.04	201	<0.06	201	<0.82	201	<0.05	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.102		0.016		0.004		0.010		0.110		0.006	
WHO TEQ (ng/kgfat) upper	0.110		0.017		0.004		0.011		0.119		0.007	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.118		0.018		0.004		0.012		0.128		0.008	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		<0.001		<0.001		0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		<0.001		<0.001		0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.001		<0.001		0.001		<0.001		0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15371		15373		15374		15375		15376		15377	
LIMS Number	S07-013374		S07-013376		S07-013377		S07-013378		S07-013379		S07-013380	
Sample Details:	British classic tomatoes - Class 1		6 Newmarket sausages		Organic milk		Cooked prawns - shell-on		Ox kidney		Dressed Whitby crab	
Fat % Whole	0.20		14.04		3.20		2.17		8.7		6.24	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.51	201	<0.07	201	<0.07	201	<0.22	201	<0.02	201	0.12	119
PBB126	<0.34	201	<0.06	201	<0.05	201	<0.17	201	<0.05	201	<0.02	201
PBB169	<0.3	201	<0.04	201	<0.04	201	<0.17	201	<0.07	201	<0.11	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.034		0.006		0.005		0.018		0.009		0.003	
WHO TEQ (ng/kgfat) upper	0.037		0.006		0.005		0.019		0.010		0.003	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.040		0.006		0.005		0.020		0.011		0.003	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		0.001		<0.001		<0.001		0.001		0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		0.001		<0.001		<0.001		0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.001		<0.001		<0.001		0.001		0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15378		15379		15387		15389		15390		15391	
LIMS Number	S07-013381		S07-013382		S07-013349		S07-013338		S07-013344		S07-013357	
Sample Details:	Boneless shoulder of lamb		Turkey breast		Leeks		6 free range duck eggs		Welsh medium Cheddar		Welsh whole rainbow trout	
Fat % Whole	15.26		6.18		0.10		15.04		34.73		5.54	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.03	201	<0.06	201	<1.09	201	0.12	103	<0.06	201	0.19	88
PBB126	<0.06	201	<0.03	135	<0.73	201	<0.08	201	<0.04	201	<0.06	201
PBB169	<0.04	201	<0.04	201	<1.0	201	<0.19	201	<0.06	201	<0.07	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.003		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		0.003		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.003		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.006		0.003		0.077		0.009		0.005		0.006	
WHO TEQ (ng/kgfat) upper	0.006		0.003		0.083		0.010		0.005		0.007	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.006		0.003		0.089		0.011		0.005		0.008	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.001		<0.001		<0.001		0.001		0.002		<0.001	
WHO TEQ (ng/kgWhole) upper	0.001		<0.001		<0.001		0.002		0.002		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.001		<0.001		<0.001		0.002		0.002		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15395		15397		15398		15400		15401		15403	
LIMS Number	S07-013351		S07-013355		S07-013356		S07-013350		S07-013372		S07-013341	
Sample Details:	Ox liver		Whole mackerel		Wild Alaskan salmon fillet		4 Scotch beef quarterpounders economy burgers		Cheese spread		Whole lemon sole	
Fat % Whole	4.53		9.96		3.41		20.15		15.28		1.23	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.06	201	0.24	63	0.11i	183	<0.06	201	<0.06	201	<0.22	201
PBB126	0.35i	52	<0.07	201	<0.07	201	0.05	122	<0.03	201	<0.23	201
PBB169	<0.18	201	<0.11	201	<0.2	201	<0.12	201	<0.13	201	<0.34	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.038		<0.001		<0.001		0.004		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	0.040		<0.001		<0.001		0.005		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.042		<0.001		<0.001		0.006		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.039		0.007		0.008		0.006		0.004		0.024	
WHO TEQ (ng/kgfat) upper	0.040		0.008		0.009		0.006		0.004		0.026	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.041		0.009		0.010		0.006		0.004		0.028	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.002		<0.001		<0.001		0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	0.002		<0.001		<0.001		0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.002		<0.001		<0.001		0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.002		0.001		<0.001		0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) upper	0.002		0.001		<0.001		0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.002		0.001		<0.001		0.001		0.001		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15404		15405		15419		15420		15421		15422	
LIMS Number	S07-013342		S07-013440		S07-013392		S07-013393		S07-013394		S07-013395	
Sample Details:	Cod fillet		Cheese & onion flavour potato crsips		Blackcurrant coulis		Free range organic eggs - medium		Boneless British turkey breast joint		British pork boneless leg roast	
Fat % Whole	0.64		32.80		0.65		10.26		1.71		10.95	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	0.28	194	<0.06	201	<0.24	201	<0.09	201	<0.12	201	<0.07	201
PBB126	<0.28	201	<0.05	201	<0.16	201	<0.07	201	<0.06	201	<0.07	201
PBB169	<0.42	201	<0.12	201	<0.12	201	<0.19	201	<0.25	201	<0.11	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.030		0.006		0.016		0.008		0.008		0.007	
WHO TEQ (ng/kgfat) upper	0.032		0.006		0.017		0.009		0.009		0.008	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.034		0.006		0.018		0.010		0.010		0.009	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		0.002		<0.001		0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		0.002		<0.001		0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.002		<0.001		0.001		<0.001		0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15424		15425		15426		15427		15429		15430	
LIMS Number	S07-013397		S07-013398		S07-013399		S07-013400		S07-013402		S07-013403	
Sample Details:	4 haddock fillets		Cornish brie		Whole herring		Plaice fillets		Lambs liver		Local venison fillet	
Fat % Whole	1.20		27.25		17.56		1.31		6.81		2.52	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.16	201	<0.06	201	0.11	130	<0.12	201	<0.08	201	<0.08	201
PBB126	<0.07	201	<0.03	201	<0.07	201	<0.05	201	0.56	37	<0.12	201
PBB169	<0.34	201	<0.12	201	<0.11	201	<0.24	201	<0.13	201	<0.17	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		0.054		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		0.056		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		0.058		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.009		0.004		0.007		0.006		0.056		0.013	
WHO TEQ (ng/kgfat) upper	0.010		0.004		0.008		0.007		0.057		0.014	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.011		0.004		0.009		0.008		0.058		0.015	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		0.004		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		0.004		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		0.004		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		0.001		0.001		<0.001		0.004		<0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		0.001		0.001		<0.001		0.004		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.001		0.002		<0.001		0.004		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15442		15443		15444		15445		15450		15451	
LIMS Number	S07-013410		S07-013411		S07-013412		S07-013413		S07-013418		S07-013419	
Sample Details:	Black pudding		Rump steak for braising		Rolled shoulder of lamb		Venison haugh joints		Whole herring		Cod fillet	
Fat % Whole	30.39		3.55		18.17		2.82		24.08		0.72	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.07	201	<0.09	201	<0.07	201	<0.07	201	0.08	177	<0.65	201
PBB126	<0.07	201	<0.09	201	<0.07	201	<0.07	201	<0.07	201	<0.65	201
PBB169	<0.06	201	<0.14	201	<0.1	201	<0.06	201	<0.06	201	<0.61	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.007		0.009		0.007		0.007		0.007		0.066	
WHO TEQ (ng/kgfat) upper	0.008		0.010		0.008		0.008		0.008		0.071	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.009		0.011		0.009		0.009		0.009		0.076	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.002		<0.001		0.001		<0.001		0.002		<0.001	
WHO TEQ (ng/kgWhole) upper	0.002		<0.001		0.001		<0.001		0.002		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.003		<0.001		0.002		<0.001		0.002		0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15452		15487		15488		15493		15498	
LIMS Number	S07-013420		S07-013405		S07-013423		S07-013438		S07-013434	
Sample Details:	Farmed salmon fillet - Freedom Food RSPCA monitored		Free range duck eggs		Mini Pringles savoury snack		Somerset brie		Dover sole	
Fat % Whole	11.67		16.23		30.70		24.15		1.21	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	0.19	77	0.13	156	<0.07	201	<0.07	201	<0.22	201
PBB126	<0.07	201	<0.1	201	<0.07	201	<0.07	201	<0.23	201
PBB169	<0.09	201	<0.09	201	<0.06	201	<0.11	201	<0.34	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.007		0.010		0.007		0.007		0.024	
WHO TEQ (ng/kgfat) upper	0.008		0.011		0.008		0.008		0.026	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.009		0.012		0.009		0.009		0.028	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.001		0.002		0.002		0.002		<0.001	
WHO TEQ (ng/kgWhole) upper	0.001		0.002		0.002		0.002		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.001		0.002		0.003		0.002		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15499		15500		15501		15503		15508		15509	
LIMS Number	S07-013435		S07-013436		S07-013432		S07-013437		S07-013454		S07-013452	
Sample Details:	Plaice fillets		Venison liver		Lambs kidney		Pure sunflower oil		Smoked eel		Medium half fat cheese food slices	
Fat % Whole	2.59		3.43		3.33		100.00		39.10		10.41	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.11	201	<0.07	201	<0.07	201	<0.07	201	<0.07	201	<0.07	201
PBB126	<0.08	201	1.07i	26	<0.05	201	<0.1	201	<0.04	201	<0.05	201
PBB169	<0.06	201	<0.04	201	<0.04	201	<0.04	201	<0.03	201	<0.03	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.104		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		0.107		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.110		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.008		0.105		0.005		0.009		0.004		0.005	
WHO TEQ (ng/kgfat) upper	0.009		0.107		0.005		0.010		0.004		0.005	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.010		0.109		0.005		0.011		0.004		0.005	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.004		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		0.004		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.004		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		0.004		<0.001		0.009		0.001		<0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		0.004		<0.001		0.010		0.002		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.004		<0.001		0.011		0.002		0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15510		15511		15512		15513		15516		15526	
LIMS Number	S07-013453		S07-013456		S07-013447		S07-013459		S07-013446		S07-013470	
Sample Details:	Duddleswell sheeps milk cheese		Wild Atlantic salmon		Whole Cornish sardines		Pasteurised ewes milk		Whole Cornish sardines - frozen		Lambs kidney	
Fat % Whole	35.00		9.04		15.07		6.53		5.53		3.70	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.07	201	0.09	135	0.08	152	<0.06	201	0.08	152	<0.06	201
PBB126	<0.05	201	<0.04	201	<0.04	201	<0.04	201	<0.04	201	<0.05	201
PBB169	<0.03	201	<0.08	201	<0.08	201	<0.08	201	<0.08	201	<0.1	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.005		0.005		0.005		0.005		0.005		0.006	
WHO TEQ (ng/kgfat) upper	0.005		0.005		0.005		0.005		0.005		0.006	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.005		0.005		0.005		0.005		0.005		0.006	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.002		<0.001		0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper	0.002		<0.001		0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.002		<0.001		0.001		<0.001		<0.001		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15527		15528		15529		15530		15534		15554	
LIMS Number	S07-013471		S07-013472		S07-013473		S07-013474		S07-013478		S07-013460	
Sample Details:	Pork liver		Fresh chicken legs - boneless		Chicken livers		British pork sliced liver		Chicken liver		Mirror carp	
Fat % Whole	3.69		15.23		4.55		3.82		5.31		4.95	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.06	201	<0.06	201	0.06	201	<0.07	201	<0.06	201	<0.07	201
PBB126	<0.05	201	<0.05	201	<0.05	201	<0.07	201	0.12	87	<0.06	201
PBB169	<0.14	201	<0.1	201	<0.1	201	<0.13	201	<0.1	201	<0.04	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		0.011		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		0.012		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		0.013		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.006		0.006		0.006		0.007		0.013		0.006	
WHO TEQ (ng/kgfat) upper	0.006		0.006		0.006		0.008		0.013		0.006	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.006		0.006		0.006		0.009		0.013		0.006	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		0.001		<0.001		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		0.001		<0.001		<0.001		0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.001		<0.001		<0.001		0.001		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15555		15557		15558		15564		15565		15566	
LIMS Number	S07-013461		S07-013485		S07-013488		S07-013482		S07-013480		S07-013483	
Sample Details:	Whitebait		Ox liver		Duck liver pâté with wine		Wild Atlantic salmon		Whitebait		Sprats	
Fat % Whole	9.08		3.30		25.49		7.79		2.07		21.64	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	0.24	55	0.10	182	<0.09	201	0.32	45	0.53	39	0.08	152
PBB126	<0.03	201	0.89	31	<0.09	201	<0.03	201	<0.09	201	<0.03	201
PBB169	<0.04	201	<0.17	201	<0.17	201	<0.04	201	<0.05	201	<0.05	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		0.088		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		0.089		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		0.090		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.003		0.089		0.010		0.003		0.009		0.004	
WHO TEQ (ng/kgfat) upper	0.003		0.091		0.011		0.003		0.010		0.004	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.003		0.093		0.012		0.003		0.011		0.004	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		0.003		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		0.003		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		0.003		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	<0.001		0.003		0.003		<0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper	<0.001		0.003		0.003		<0.001		<0.001		0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	<0.001		0.003		0.003		<0.001		<0.001		0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	15567		15569		15574		15579		15580		15654	
LIMS Number	S07-013479		S07-013490		S07-013495		S07-013500		S07-013502		S07-013506	
Sample Details:	English sprats		Spinach - Class 1		6 free range eggs - large		Pigs kidney		Boneless chicken thighs		Eels	
Fat % Whole	23.15		0.36		8.94		3.07		17.83		30.70	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	0.09	135	0.22	183	0.10	182	<0.09	201	<0.06	201	<0.11	201
PBB126	<0.03	201	<0.10	201	<0.09	201	<0.11	201	<0.03	201	<0.06	201
PBB169	<0.05	201	<0.14	201	<0.17	201	<0.17	201	<0.04	201	<0.08	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.004		0.010		0.010		0.012		0.003		0.006	
WHO TEQ (ng/kgfat) upper	0.004		0.011		0.011		0.013		0.003		0.007	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.004		0.012		0.012		0.014		0.003		0.008	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.001		<0.001		0.001		<0.001		<0.001		0.002	
WHO TEQ (ng/kgWhole) upper	0.001		<0.001		0.001		<0.001		0.001		0.002	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.001		<0.001		0.001		<0.001		0.001		0.002	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	16143		16145		16150		16151		16159	
LIMS No.	S07-013510		S07-013512		S07-013517		S07-013518		S07-013526	
Sample Details:	Traditional lamb, sliced liver		Premium pork sausages		Jellied eels		Smoked eel		Lochmuir Scottish salmon portions	
Fat % Whole	8.15		23.88		10.61		35.66		16.54	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.09	201	<0.06	201	<0.09	201	<0.09	201	<0.06	201
PBB126	0.63	29	<0.03	201	<0.05	201	<0.04	201	<0.03	201
PBB169	<0.09	201	<0.06	201	<0.08	201	<0.08	201	<0.05	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.058		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	0.060		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.062		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.059		<0.001		0.009		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper	0.060		<0.001		0.010		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.061		<0.001		0.011		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.005		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	0.005		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.005		<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.005		<0.001		0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper	0.005		<0.001		0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.005		<0.001		0.001		<0.001		<0.001	

Table 3(cont'd): Concentrations of non-ortho PBBs

	16165		16166		16169		16170		16172	
CSL Sample No.										
LIMS No.	S07-013532		S07-013533		S07-013536		S07-013537		S07-013539	
Sample Details:	Wild venison liver		Whole Cornish mackerel		Prime boneless salmon fillets		Cumberland pork sausages		Farmed red deer liver	
Fat % Whole	6.08		24.81		15.53		12.15		5.90	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.11	201	0.22	77	0.11	130	<0.09	201	<0.11	201
PBB126	0.17	64	<0.04	201	<0.03	201	<0.09	201	0.35	42
PBB169	<0.1	201	<0.07	201	<0.06	201	<0.12	201	<0.13	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	0.019		<0.001		<0.001		<0.001		0.038	
WHO TEQ (ng/kgfat) lower	0.020		<0.001		<0.001		<0.001		0.040	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	0.021		<0.001		<0.001		<0.001		0.042	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.019		<0.001		<0.001		0.009		0.039	
WHO TEQ (ng/kgfat) upper	0.020		<0.001		<0.001		0.010		0.040	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.021		<0.001		<0.001		0.011		0.041	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	0.001		<0.001		<0.001		<0.001		0.002	
WHO TEQ (ng/kgWhole) lower	0.001		<0.001		<0.001		<0.001		0.002	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	0.001		<0.001		<0.001		<0.001		0.002	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.001		<0.001		<0.001		0.001		0.002	
WHO TEQ (ng/kgWhole) upper	0.001		<0.001		<0.001		0.001		0.002	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.001		<0.001		<0.001		0.001		0.002	

Table 3(cont'd): Concentrations of non-ortho PBBs

CSL Sample No.	16173		16184		16186		16189	
LIMS No.	S07-013540		S07-013551		S07-013553		S08-009817	
Sample Details:	Lambs liver		Whole mackerel (gutted by fishmonger)		Herring (filleted by fishmonger)		Herring (filleted by fishmonger)	
Fat % Whole	6.44		2.06		19.42		9.68	
ng/kg fat weight	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U	ng/kg fat	% U
PBB77	<0.09	201	0.43	65	0.36	46	0.29	67
PBB126	<0.09	201	<0.12	201	<0.03	201	<0.04	201
PBB169	<0.11	201	<0.17	201	<0.06	201	<0.08	201
WHO TEQ (ng/kgfat) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty lower	0.009		0.009		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper	0.010		0.010		<0.001		<0.001	
WHO TEQ (ng/kgfat) upper, Uncertainty upper	0.011		0.011		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty lower	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) lower, Uncertainty upper	<0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty lower	0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper	0.001		<0.001		<0.001		<0.001	
WHO TEQ (ng/kgWhole) upper, Uncertainty upper	0.001		<0.001		<0.001		<0.001	

Table 4: Concentrations of ortho PBBs

CSL Sample No.	15311		15312		15313		15314		15315		15316	
LIMS No.	S07-013306		S07-013307		S07-013308		S07-013309		S07-013310		S07-013311	
Sample Details:	Mushy peas		Cauliflower - Class II		New Zealand sliced lambs liver		Rainbow trout		Organic boned Scottish salmon fillets		English lamb hearts	
Fat % Whole	0.62		0.44		7.10		6.93		13.80		8.07	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	0.03	72	0.06	44	<0.01	202
PBB-52	<0.01	202	<0.01	202	<0.01	202	0.07	40	0.15	31	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	<0.01	202	0.04	58	0.06	44	<0.01	202
PBB-153	<0.01	202	<0.01	202	<0.01	202	0.03	72	0.05	49	<0.01	202

CSL Sample No.	15317		15320		15321		15322		15323		15324	
LIMS No.	S07-013312		S07-013315		S07-013316		S07-013317		S07-013318		S07-013319	
Sample Details:	Best braising steak		Boneless leg of pork		Large eggs		8 Lincolnshire sausages		Vintage extra mature cheddar		Wholemeal bread	
Fat % Whole	3.29		16.50		8.79		15.27		35.23		2.82	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-153	0.02	104	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No.	15326		15327		15328		15329		15344		15345	
LIMS No.	S07-013321		S07-013322		S07-013323		S07-013324		S07-013329		S07-013330	
Sample Details:	Rooster potatoes		Carrots - Class 1 (20 - 50mm)		Pure corn oil		Sweetcorn		Superfast Oats		Organic extra jam handmade strawberry preserve	
Fat % Whole	0.16		0.50		100.00		1.07		9.10		0.30	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.02	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.02	202
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.02	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.02	202
PBB-101	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.02	202
PBB-153	<0.02	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.02	202

CSL Sample No.	15346		15347		15348		15349		15350		15351	
LIMS No.	S07-013332		S07-013333		S07-013334		S07-013335		S07-013336		S07-013337	
Sample Details:	Jersey potatoes in water		Olive oil - medium		Red onions - Class 1 (40/60mm)		Somerset goat's cheese		British white potatoes - Osprey		Free range eggs - medium	
Fat % Whole	0.21		100.00		0.31		28.90		0.36		10.06	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.02	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-153	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No.	15358		15363		15364		15366		15368		15369	
LIMS No.	S07-013358		S07-013363		S07-013364		S07-013368		S07-013370		S07-013371	
Sample Details:	Swede half		MSC wild Alaskan salmon fillets		Crispy oven fries		12 organic large free range eggs		British parsnips		Whole mackerel	
Fat % Whole	0.10		2.94		5.42		9.00		0.20		12.17	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.03	72
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.07	40
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.03	72
PBB-153	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.02	104

CSL Sample No.	15371		15373		15374		15375		15376		15377	
LIMS No.	S07-013374		S07-013376		S07-013377		S07-013378		S07-013379		S07-013380	
Sample Details:	British classic tomatoes - Class 1		6 Newmarket sausages		Organic milk		Cooked prawns - shell-on		Ox kidney		Dressed Whitby crab	
Fat % Whole	0.20		14.04		3.20		2.17		8.7		6.24	
ug/kg fat weight	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.42	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.03	72
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.03	72
PBB-153	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.10	35

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No.	15378		15379		15387		15389		15390		15391	
LIMS No.	S07-013381		S07-013382		S07-013349		S07-013338		S07-013344		S07-013357	
Sample Details:	Boneless shoulder of lamb		Turkey breast		Leeks		6 free range duck eggs		Welsh medium Cheddar		Welsh whole rainbow trout	
Fat % Whole	15.26		6.18		0.10		15.04		34.73		5.54	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.38	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.03	72
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.09	36
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	<0.05	202	<0.01	202	<0.01	202	0.04	58
PBB-153	<0.01	202	<0.01	202	<0.03	202	<0.01	202	<0.01	202	0.04	58

CSL Sample No.	15395		15397		15398		15400		15401		15403	
LIMS No.	S07-013351		S07-013355		S07-013356		S07-013350		S07-013372		S07-013341	
Sample Details:	Ox liver		Whole mackerel		Wild Alaskan salmon fillet		4 Scotch beef quarterpounders economy burgers		Cheese spread		Whole lemon sole	
Fat % Whole	4.53		9.96		3.41		20.15		15.28		1.23	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	0.03	72	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	<0.01	202	0.07	40	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	0.03	72	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-153	0.04	58	0.03	72	<0.01	202	<0.01	202	<0.01	202	<0.01	202

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No.	15404		15405		15419		15420		15421		15422	
LIMS No.	S07-013342		S07-013440		S07-013392		S07-013393		S07-013394		S07-013395	
Sample Details:	Cod fillet		Cheese & onion flavour potato crsips		Blackcurrant coulis		Free range organic eggs - medium		Boneless British turkey breast joint		British pork boneless leg roast	
Fat % Whole	0.64		32.80		0.65		10.26		1.71		10.95	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.02	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-153	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202

CSL Sample No.	15424		15425		15426		15427		15429		15430	
LIMS No.	S07-013397		S07-013398		S07-013399		S07-013400		S07-013402		S07-013403	
Sample Details:	4 haddock fillets		Cornish brie		Whole herring		Plaice fillets		Lambs liver		Local venison fillet	
Fat % Whole	1.20		27.25		17.56		1.31		6.81		2.52	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	<0.01	202	<0.01	202	0.03	72	<0.01	202	<0.01	202	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-153	<0.01	202	<0.01	202	<0.01	202	0.03	72	0.05	49	<0.02	202

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No. LIMS No. Sample Details:	15442		15443		15444		15445		15450		15451	
	S07-013410		S07-013411		S07-013412		S07-013413		S07-013418		S07-013419	
	Black pudding		Rump steak for braising		Rolled shoulder of lamb		Venison haugh joints		Whole herring		Cod fillet	
Fat % Whole	30.39		3.55		18.17		2.82		24.08		0.72	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.04	58	<0.03	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.01	202	<0.02	202
PBB-153	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.03	202

CSL Sample No. LIMS No. Sample Details:	15452		15487		15488		15493		15498	
	S07-013420		S07-013405		S07-013423		S07-013438		S07-013434	
	Farmed salmon fillet - Freedom Food RSPCA monitored		Free range duck eggs		Mini Pringles savoury snack		Somerset brie		Dover sole	
Fat % Whole	11.67		16.23		30.70		24.15		1.21	
ug/kg fat weight	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat	ug/kg fat
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	0.04	58	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	0.09	36	<0.01	202	<0.01	202	<0.01	202	0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	0.04	58	<0.01	202	<0.01	202	<0.01	202	0.02	104
PBB-153	0.05	49	<0.01	202	<0.01	202	<0.01	202	0.02i	104

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No.	15499		15500		15501		15503		15508		15509	
LIMS No.	S07-013435		S07-013436		S07-013432		S07-013437		S07-013454		S07-013452	
Sample Details:	Plaice fillets		Venison liver		Lambs kidney		Pure sunflower oil		Smoked eel		Medium half fat cheese food slices	
Fat % Whole	2.59		3.43		3.33		100		39.10		10.41	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-153	0.02	104	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202

CSL Sample No.	15510		15511		15512		15513		15516		15526	
LIMS No.	S07-013453		S07-013456		S07-013447		S07-013459		S07-013446		S07-013470	
Sample Details:	Duddleswell sheeps milk cheese		Wild Atlantic salmon		Whole Cornish sardines		Pasteurised ewes milk		Whole Cornish sardines - frozen		Lambs kidney	
Fat % Whole	35.00		9.04		15.07		6.53		5.53		3.70	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	0.02	104	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	<0.01	202	0.03	72	0.01	202	<0.01	202	0.03	72	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	0.03	72	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-153	<0.01	202	0.03	72	<0.01	202	<0.01	202	<0.01	202	<0.01	202

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No.	15527		15528		15529		15530		15534		15554	
LIMS No.	S07-013471		S07-013472		S07-013473		S07-013474		S07-013478		S07-013460	
Sample Details:	Pork liver		Fresh chicken legs - boneless		Chicken livers		British pork sliced liver		Chicken liver		Mirror carp	
Fat % Whole	3.69		15.23		4.55		3.82		5.31		4.95	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-153	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.02	104	<0.01	202

CSL Sample No.	15555		15557		15558		15564		15565		15566	
LIMS No.	S07-013461		S07-013485		S07-013488		S07-013482		S07-013480		S07-013483	
Sample Details:	Whitebait		Ox liver		Duck liver pâté with wine		Wild Atlantic salmon		Whitebait		Sprats	
Fat % Whole	9.08		3.30		25.49		7.79		2.07		21.64	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	0.02	104	<0.01	202	<0.01	202	0.02	104	0.26	29	0.03	72
PBB-52	0.03	72	<0.01	202	<0.01	202	0.03	72	0.92	28	0.06	44
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.02	104	<0.01	202
PBB-101	0.02	104	<0.01	202	<0.01	202	0.03	72	0.17	31	0.01	202
PBB-153	<0.01	202	0.24	30	<0.01	202	0.04	58	0.07	40	<0.01	202

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No.	15567		15569		15574		15579		15580		15654	
LIMS No.	S07-013479		S07-013490		S07-013495		S07-013500		S07-013502		S07-013506	
Sample Details:	English sprats		Spinach - Class 1		6 free range eggs - large		Pigs kidney		Boneless chicken thighs		Eels	
Fat % Whole	23.15		0.36		8.94		3.07		17.83		30.70	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	0.02	104	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-52	0.05	49	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.05	49
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.03	72
PBB-153	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202	0.02	104

CSL Sample No.	16143		16145		16150		16151		16159	
LIMS No.	S07-013510		S07-013512		S07-013517		S07-013518		S07-013526	
Sample Details:	Traditional lamb sliced liver		Premium pork sausages		Jellied eels		Smoked eel		Lochmuir Scottish salmon portions	
Fat % Whole	8.15		23.88		10.61		35.66		16.54	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	<0.01	202	<0.01	202	0.02	104	<0.01	202
PBB-52	<0.01	202	<0.01	202	0.02	104	0.20	30	0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	<0.01	202	0.01	202	0.04	58	<0.01	202
PBB-153	0.07i	40	<0.01	202	<0.01	202	0.02i	104	0.01	202

Table 4 (cont'd): Concentrations of ortho PBBs

CSL Sample No.	16165		16166		16169		16170		16172	
LIMS No.	S07-013532		S07-013533		S07-013536		S07-013537		S07-013539	
Sample Details:	Wild venison liver		Whole Cornish mackerel		2 prime boneless salmon fillets		8 Cumberland pork sausages		Farmed red deer liver	
Fat % Whole	6.08		24.81		15.53		12.15		5.90	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	0.01	202	0.02	104	<0.01	202	<0.01	202
PBB-52	<0.01	202	0.02	104	0.05	49	<0.01	202	<0.01	202
PBB-80	<0.01	202	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-101	<0.01	202	0.02	104	0.02	104	<0.01	202	<0.01	202
PBB-153	<0.03	202	0.04	58	0.02i	104	<0.01	202	0.05i	49

i – indicative data

CSL Sample No.	16173		16184		16186		16189	
LIMS No.	S07-013540		S07-013551		S07-013553		S08-009817	
Sample Details:	Lambs liver		Whole mackerel (gutted by fishmonger)		Herring (filleted by fishmonger)		Herring (filleted by fishmonger)	
Fat % Whole	6.44		2.06		19.42		9.68	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
PBB-15	<0.01	202	<0.01	202	<0.01	202	<0.01	202
PBB-49	<0.01	202	0.12	33	0.02	104	0.07	40
PBB-52	<0.01	202	0.32	29	0.08	38	0.47	29
PBB-80	<0.01	202	<0.01	202	<0.01	202	0.01	202
PBB-101	<0.01	202	0.07	40	<0.01	202	0.11	34
PBB-153	0.02i	104	0.12	33	0.01	202	0.06	44

i - indicative value

Table 5: Concentrations of PBDEs

CSL Sample No.	15311		15312		15313		15314		15315		15316	
LIMS Number	S07-013306		S07-013307		S07-013308		S07-013309		S07-013310		S07-013311	
Sample Details:	Mushy peas		Cauliflower - Class II		New Zealand sliced lamb's liver		Rainbow trout		Organic boned Scottish salmon fillets		English lamb hearts	
Fat % Whole	0.62		0.44		7.10		6.93		13.80		8.07	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	<0.01	200	<0.01	200	0.15	17	0.09	25	<0.01	200
BDE-28	<0.02	200	<0.02	200	<0.01	200	0.75	11	0.66	11	<0.01	200
BDE-47	<0.24	200	<0.21	200	<0.06	200	13.34	11	12.84	11	0.20	51
BDE-49	<0.03	200	0.02	200	<0.01	200	2.77	11	3.86	11	<0.01	200
BDE-66	<0.03	200	<0.03	200	<0.01	200	0.63	11	0.74	11	<0.01	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.02	101	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	0.03	67	0.04	51	<0.01	200
BDE-85	<0.02	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	<0.2	200	<0.17	200	<0.05	200	4.20	11	2.39	11	0.22	38
BDE-100	<0.02	200	<0.02	200	<0.01	200	2.32	11	3.66	11	0.11	21
BDE-119	<0.01	200	<0.01	200	<0.01	200	0.15	17	0.25	13	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	<0.03	200	0.06	67	<0.01	200	0.41	12	0.40	12	0.13	19
BDE138	<0.02	200	<0.02	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	<0.02	200	<0.02	200	<0.01	200	0.97	11	1.20	11	0.05	41
BDE-183	<0.01	200	0.26	13	<0.01	200	0.02	101	0.01	200	0.02	101

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15317		15320		15321		15322		15323		15324	
LIMS Number	S07-013312		S07-013315		S07-013316		S07-013317		S07-013318		S07-013319	
Sample Details:	Best braising steak		Boneless leg of pork		Large eggs		8 Lincolnshire sausages		Vintage extra mature cheddar		Wholemeal bread	
Fat % Whole	3.29		16.50		8.79		15.27		35.23		2.82	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-28	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-47	0.06	167	0.20	51	<0.06	200	0.93	15	0.09	156	<0.15	200
BDE-49	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.02	200
BDE-66	<0.01	200	<0.01	200	<0.01	200	0.01	200	<0.01	200	<0.02	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.04	200	0.21	40	0.06	167	2.30	11	0.08	175	<0.14	200
BDE-100	<0.01	200	0.04	51	0.01	200	0.16	16	0.01	200	<0.02	200
BDE-119	<0.01	200	<0.01	200	<0.01	200	0.03	67	<0.01	200	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.01	200	0.03	67	0.01	200	1.19	11	0.01	200	<0.02	200
BDE138	<0.01	200	<0.01	200	<0.01	200	0.12	20	<0.01	200	<0.01	200
BDE 154	<0.01	200	0.02	101	<0.01	200	0.25	13	<0.01	200	<0.01	200
BDE-183	<0.01	200	<0.01	200	<0.01	200	0.05	41	<0.05	200	<0.1	200

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No. LIMS Number	15326 S07-013321 Rooster potatoes		15327 S07-013322 Carrots - Class 1 (20 - 50mm)		15328 S07-013323 Pure corn oil		15329 S07-013324 Sweetcorn		15344 S07-013329 Superfast Oats		15345 S07-013330 Organic extra jam handmade strawberry preserve	
Sample Details: Fat % Whole	0.16		0.50		100.00		1.07		9.10		0.30	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.04	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.20	61
BDE-28	<0.07	200	<0.02	200	<0.01	200	<0.02	200	0.01	200	0.65	65
BDE-47	<1.04	200	0.31	175	<0.07	200	<0.27	200	0.16	163	9.57	60
BDE-49	<0.12	200	0.03i	200	<0.01	200	<0.03	200	0.02	101	0.93	57
BDE-66	<0.1	200	0.03	200	<0.01	200	<0.03	200	0.01	200	0.77	66
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.04	101
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.03	134
BDE-85	<0.06	200	<0.02	200	<0.01	200	<0.02	200	<0.01	200	0.21	105
BDE-99	<0.97	200	0.29	173	<0.07	200	<0.25	200	<0.12	200	7.25	68
BDE-100	<0.13	200	0.04	150	<0.01	200	<0.03	200	<0.02	200	1.22	44
BDE-119	<0.02	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.05	160
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.02	200
BDE153	<0.13	200	0.03	200	<0.01	200	<0.03	200	<0.02	200	1.33	38
BDE138	<0.02	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.08	200
BDE 154	<0.09	200	<0.02	200	<0.01	200	<0.02	200	<0.01	200	0.51	75
BDE-183	<0.69	200	<0.18	200	<0.05	200	<0.18	200	<0.09	200	0.73	42

i - indicative value

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15346		15347		15348		15349		15350		15351	
LIMS Number	S07-013332		S07-013333		S07-013334		S07-013335		S07-013336		S07-013337	
Sample Details:	Jersey potatoes in water		Olive oil - medium		Red onions - Class 1 (40/60mm)		Somerset goat's cheese		British white potatoes - Osprey		Free range eggs - medium	
Fat % Whole	0.21		100.00		0.31		28.90		0.36		10.06	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.02	200	<0.01	200	<0.02	200	<0.01	200	<0.03	200	<0.01	200
BDE-28	<0.05	200	<0.01	200	<0.04	200	<0.01	200	<0.05	200	<0.01	200
BDE-47	<0.56	200	<0.07	200	<0.43	200	0.12	117	<0.64	200	0.10	160
BDE-49	<0.06	200	<0.01	200	<0.05	200	<0.01	200	<0.07	200	<0.01	200
BDE-66	<0.06	200	<0.01	200	<0.05	200	<0.01	200	<0.06	200	<0.01	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.04	200	<0.01	200
BDE-99	<0.45	200	<0.07	200	<0.35	200	0.09i	156	<0.59	200	0.12	117
BDE-100	<0.05	200	<0.01	200	<0.04	200	0.03i	67	<0.08	200	0.03	67
BDE-119	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	<0.07	200	<0.01	200	<0.04	200	0.10	23	<0.08	200	0.04	51
BDE138	<0.03	200	<0.01	200	<0.02	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	<0.05	200	<0.01	200	<0.04	200	0.01	200	<0.06	200	<0.01	200
BDE-183	<0.01	200	<0.05	200	0.03	67	<0.05	200	<0.42	200	0.06	35

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15358		15363		15364		15366		15368		15369	
LIMS Number	S07-013358		S07-013363		S07-013364		S07-013368		S07-013370		S07-013371	
	Swede half		MSC wild Alaskan salmon fillets		Crispy oven fries		12 organic large free range eggs		British parsnips		Whole mackerel	
Sample Details:	0.10		2.94		5.42		9.00		0.20		12.17	
Fat % Whole												
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	0.02	101	<0.01	200	<0.01	200	<0.01	200	0.02	101	0.04	51
BDE-28	0.07	86	0.14	18	<0.01	200	<0.01	200	0.07	58	0.43	11
BDE-47	<1.21	200	1.47	23	<0.05	200	2.03	14	1.81	122	6.99	11
BDE-49	<0.12	200	0.16	27	<0.01	200	0.04	51	0.19	116	2.28	11
BDE-66	<0.12	200	0.10	41	<0.01	200	0.02	101	0.14	157	0.91	11
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.05	41
BDE-85	<0.04	200	<0.01	200	<0.01	200	0.10	23	<0.03	200	<0.01	200
BDE-99	<1.07	200	0.37	71	<0.05	200	3.28	12	1.78	109	2.56	11
BDE-100	<0.12	200	0.21	22	<0.01	200	0.82	11	0.35	64	2.01	11
BDE-119	<0.01	200	0.02	101	<0.01	200	<0.01	200	<0.01	200	0.24	13
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	<0.12	200	0.06	35	<0.01	200	0.61	11	0.27	82	0.40	12
BDE138	<0.03	200	<0.01	200	<0.01	200	0.06	35	<0.02	200	<0.01	200
BDE 154	<0.05	200	0.09	25	<0.01	200	0.34	12	0.11	92	1.06	11
BDE-183	0.08	51	0.10	23	<0.01	200	0.04	51	0.17	26	0.13	19

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15371		15373		15374		15375		15376		15377	
LIMS Number	S07-013374		S07-013376		S07-013377		S07-013378		S07-013379		S07-013380	
Sample Details:	British classic tomatoes - Class 1		6 Newmarket sausages		Organic milk		Cooked prawns - shell-on		Ox kidney		Dressed Whitby crab	
Fat % Whole	0.20		14.04		3.20		2.17		8.7		6.24	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.01	200
BDE-28	0.04	51	<0.01	200	<0.01	200	0.05	81	<0.01	200	0.69	11
BDE-47	0.44	187	0.30	35	0.12	84	1.00	45	0.10	61	8.87	11
BDE-49	0.05	160	0.01	200	<0.01	200	0.06	67	<0.01	200	0.48	11
BDE-66	0.05	160	0.01	200	<0.01	200	0.04	101	<0.01	200	0.18	15
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.06	35
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	<0.36	200	0.33	32	0.10	101	<0.18	200	0.10	41	3.81	11
BDE-100	0.05	160	0.06	35	0.02	101	0.13	33	0.02	101	3.69	11
BDE-119	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.21	14
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.04	200	0.07	30	0.02	101	<0.02	200	0.03	67	2.50	11
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	<0.02	200	0.04	51	<0.01	200	0.03	67	0.01	200	4.79	10
BDE-183	0.03	67	0.04	51	<0.01	200	0.01	200	0.01	200	0.03	67

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15378		15379		15387		15389		15390		15391	
LIMS Number	S07-013381		S07-013382		S07-013349		S07-013338		S07-013344		S07-013357	
Sample Details:	Boneless shoulder of lamb		Turkey breast		Leeks		6 free range duck eggs		Welsh medium Cheddar		Welsh whole rainbow trout	
Fat % Whole	15.26		6.18		0.10		15.04		34.73		5.54	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	<0.01	200	0.03	134	<0.01	200	<0.01	200	0.02	101
BDE-28	<0.01	200	<0.01	200	0.13	124	<0.01	200	<0.01	200	0.56	11
BDE-47	0.08	76	0.08	125	3.43	62	0.36	40	0.20	51	11.70	11
BDE-49	<0.01	200	<0.01	200	0.30	67	0.01	200	<0.01	200	2.13	11
BDE-66	<0.01	200	<0.01	200	0.30	67	<0.01	200	0.02	101	0.83	11
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.01	200
BDE-77	<0.01	200	<0.01	200	0.02	101	<0.01	200	<0.01	200	0.03	67
BDE-85	<0.01	200	<0.01	200	0.21	22	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.15	41	0.08	125	4.81	38	1.28	14	0.24	43	2.64	12
BDE-100	0.10	23	0.02	101	0.75	29	0.32	12	0.03	67	3.37	11
BDE-119	<0.01	200	<0.01	200	<0.03	200	<0.01	200	<0.01	200	0.24	13
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.18	15	0.02	101	0.66	35	0.75	11	0.06	35	0.46	11
BDE138	<0.01	200	<0.01	200	<0.02	200	0.03	67	<0.01	200	<0.01	200
BDE 154	0.06	35	<0.01	200	0.27	18	0.17i	16	0.02	101	1.22	11
BDE-183	0.03	67	0.01	200	0.23	14	0.02	101	<0.01	200	0.02	101

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15395		15397		15398		15400		15401		15403	
LIMS Number	S07-013351		S07-013355		S07-013356		S07-013350		S07-013372		S07-013341	
Sample Details:	Ox liver		Whole mackerel		Wild Alaskan salmon fillet		4 Scotch beef quarterpounders economy burgers		Cheese spread		Whole lemon sole	
Fat % Whole	4.53		9.96		3.41		20.15		15.28		1.23	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	0.06	35	0.02	101	<0.01	200	<0.01	200	<0.01	200
BDE-28	<0.01	200	0.54	11	0.10	23	<0.01	200	<0.01	200	0.14	18
BDE-47	0.08	175	10.45	11	0.80	23	0.09	112	0.08	125	0.97	33
BDE-49	<0.01	200	3.74	11	0.19	15	<0.01	200	<0.01	200	0.15	29
BDE-66	<0.01	200	1.58	11	0.06	35	<0.01	200	<0.01	200	0.04	101
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	0.07	30	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.06	200	3.18	11	0.17	83	0.09	90	0.06	134	0.09	67
BDE-100	<0.01	200	3.44	11	0.14	18	<0.01	200	<0.01	200	0.30	12
BDE-119	<0.01	200	0.36	12	0.03	67	<0.01	200	<0.01	200	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.02	101	0.64	11	0.04	51	0.03i	67	0.01	200	<0.02	200
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.02	200
BDE 154	<0.01	200	1.97	11	0.12	20	<0.01	200	<0.01	200	0.10	23
BDE-183	0.02	101	0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.03	200

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15404		15405		15419		15420		15421		15422	
LIMS Number	S07-013342		S07-013440		S07-013392		S07-013393		S07-013394		S07-013395	
Sample Details:	Cod fillet		Cheese & onion flavour potato crsips		Blackcurrant coulis		Free range organic eggs - medium		Boneless British turkey breast joint		British pork boneless leg roast	
Fat % Whole	0.64		32.80		0.65		10.26		1.71		10.95	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	0.02	101	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-28	0.13	33	<0.01	200	<0.02	200	<0.01	200	<0.01	200	<0.01	200
BDE-47	2.35	19	<0.05	200	<0.2	200	0.14	115	<0.1	200	0.16	63
BDE-49	0.37	15	<0.01	200	<0.02	200	0.01	200	0.01	200	<0.01	200
BDE-66	0.06	67	<0.01	200	<0.02	200	<0.01	200	<0.01	200	<0.01	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.25	34	0.07	115	<0.16	200	0.22	64	0.10	180	0.18	15
BDE-100	0.45	14	<0.01	200	<0.02	200	0.05	41	0.02	101	0.06	35
BDE-119	0.02	101	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.03	134	0.02	101	<0.02	200	0.07	30	0.12	20	0.08	27
BDE138	<0.02	200	<0.01	200	<0.01	200	<0.01	200	<0.02	200	<0.01	200
BDE 154	0.20	14	<0.01	200	<0.02	200	0.02	101	0.03	67	0.04	51
BDE-183	<0.03	200	0.02	101	<0.02	200	0.03	67	0.35	16	0.05	41

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15424		15425		15426		15427		15429		15430	
LIMS Number	S07-013397		S07-013398		S07-013399		S07-013400		S07-013402		S07-013403	
Sample Details:	4 haddock fillets		Cornish brie		Whole herring		Plaice fillets		Lambs liver		Local venison fillet	
Fat % Whole	1.20		27.25		17.56		1.31		6.81		2.52	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	<0.01	200	<0.01	200	0.02	101	<0.01	200	<0.01	200
BDE-28	0.02	101	<0.01	200	0.20	14	0.07	30	<0.01	200	<0.01	200
BDE-47	0.29	97	0.07	143	4.10	11	2.00	14	0.07	143	0.08	175
BDE-49	0.03	67	<0.01	200	1.98	11	0.18	15	<0.01	200	<0.01	200
BDE-66	<0.02	200	<0.01	200	0.14	18	0.05	41	<0.01	200	<0.01	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	<0.12	200	0.05	160	0.29	13	0.10	180	0.10	23	0.11	110
BDE-100	0.07	30	<0.01	200	1.02	11	0.39	12	0.06	35	0.02	101
BDE-119	<0.01	200	<0.01	200	0.06	35	0.02	101	<0.01	200	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	<0.02	200	0.01	200	0.05	41	0.04	51	0.13	19	0.18	15
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.02	101
BDE 154	0.02	101	<0.01	200	0.25	13	0.22	14	<0.02	200	0.01	200
BDE-183	<0.02	200	<0.01	200	<0.01	200	<0.02	200	0.03	67	0.06	35

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15442		15443		15444		15445		15450		15451	
LIMS Number	S07-013410		S07-013411		S07-013412		S07-013413		S07-013418		S07-013419	
Sample Details:	Black pudding		Rump steak for braising		Rolled shoulder of lamb		Venison haugh joints		Whole herring		Cod fillet	
Fat % Whole	30.39		3.55		18.17		2.82		24.08		0.72	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.02	200
BDE-28	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.17	16	0.08	51
BDE-47	0.08	101	<0.06	200	0.04	200	0.04	200	4.38	11	1.46	56
BDE-49	<0.01	200	<0.01	200	<0.01	200	<0.01	200	1.83	11	1.09	14
BDE-66	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.13	19	0.15	29
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.04	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.05	200
BDE-99	0.06	35	0.03	67	0.05	41	0.02	101	0.28	13	0.62	34
BDE-100	<0.01	200	<0.01	200	0.02	101	<0.01	200	1.09	11	0.19	15
BDE-119	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.05	41	<0.02	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.02	200
BDE153	0.02	101	0.01	200	0.05	41	0.19	15	0.06	35	0.07	86
BDE138	<0.01	200	<0.01	200	<0.01	200	0.01	200	<0.01	200	<0.1	200
BDE 154	<0.01	200	<0.01	200	<0.01	200	0.05	41	0.28	13	0.11	38
BDE-183	<0.02	200	<0.01	200	<0.01	200	0.79	11	<0.01	200	<0.11	200

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15452		15487		15488		15493		15498	
LIMS Number	S07-013420		S07-013405		S07-013423		S07-013438		S07-013434	
Sample Details:	Farmed salmon fillet - Freedom Food RSPCA monitored		Free range duck eggs		Mini Pringles savoury snack		Somerset brie		Dover sole	
Fat % Whole	11.67		16.23		30.70		24.15		1.21	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	0.09	25	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-28	0.53	11	<0.01	200	<0.01	200	<0.01	200	0.11	21
BDE-47	9.82	11	0.10	120	<0.04	200	0.09	112	1.53	22
BDE-49	2.07	11	0.01	200	<0.01	200	<0.01	200	0.85	11
BDE-66	0.60	11	<0.01	200	<0.01	200	<0.01	200	0.14	30
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	0.02	101	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	2.07	11	0.29	17	<0.02	200	0.09	25	0.39	19
BDE-100	2.39	11	0.16	16	<0.01	200	0.01	200	1.80	11
BDE-119	0.24	13	<0.01	200	<0.01	200	<0.01	200	0.07	30
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.44	11	0.36	12	<0.01	200	0.03	67	0.18	25
BDE138	<0.01	200	0.03	67	<0.01	200	<0.01	200	<0.02	200
BDE 154	1.46	11	0.08i	27	<0.01	200	<0.01	200	1.54	11
BDE-183	0.02	101	0.05	81	<0.01	200	<0.01	200	0.03	200

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15499		15500		15501		15503		15508		15509	
LIMS Number	S07-013435		S07-013436		S07-013432		S07-013437		S07-013454		S07-013452	
Sample Details:	Plaice fillets		Venison liver		Lambs kidney		Pure sunflower oil		Smoked eel		Medium half fat cheese food slices	
Fat % Whole	2.59		3.43		3.33		100.00		39.10		10.41	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	0.02	101	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-28	0.10	23	<0.01	200	<0.01	200	<0.01	200	0.23	14	<0.01	200
BDE-47	2.75	12	0.14	72	0.06	167	0.05	200	8.94	11	0.12	84
BDE-49	0.22	14	<0.01	200	<0.01	200	<0.01	200	1.47	11	<0.01	200
BDE-66	0.05	41	<0.01	200	<0.01	200	<0.01	200	0.18	15	<0.01	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.11	38	0.09i	25	0.07	30	0.06	35	0.28	13	0.10	23
BDE-100	0.37	12	0.01i	200	0.03	67	<0.01	200	3.15	11	0.01	200
BDE-119	0.01	200	<0.01	200	<0.01	200	<0.01	200	0.12	20	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.04	51	0.16	16	0.04	51	<0.01	200	0.40	12	0.02	101
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	0.15I	17	0.07	30	<0.06	200	0.01I	200	0.86	11	<0.01	200
BDE-183	0.01	200	0.05	41	<0.01	200	<0.01	200	0.05	41	<0.01	200

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15510		15511		15512		15513		15516		15526	
LIMS Number	S07-013453		S07-013456		S07-013447		S07-013459		S07-013446		S07-013470	
Sample Details:	Duddleswell sheeps milk cheese		Wild Atlantic salmon		Whole Cornish sardines		Pasteurised ewes milk		Whole Cornish sardines - frozen		Lambs kidney	
Fat % Whole	35.00		9.04		15.07		6.53		5.53		3.70	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	0.05	41	0.08	27	<0.01	200	0.08	27	<0.01	200
BDE-28	<0.01	200	0.22	14	0.13	19	<0.01	200	0.24	13	<0.01	200
BDE-47	0.06	167	3.33	11	2.39	11	0.08	125	4.37	11	0.05	200
BDE-49	<0.01	200	0.44	11	0.79	11	0.01	200	1.37	11	<0.01	200
BDE-66	<0.01	200	0.18	15	0.13	19	<0.01	200	0.18	15	<0.01	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.11	21	0.59	17	0.45	21	0.15	54	0.33	26	0.11	73
BDE-100	0.04	51	0.64	11	0.83	11	0.06	35	1.35	11	0.04	51
BDE-119	<0.01	200	0.07	30	0.06	35	<0.01	200	0.10	23	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.05	41	0.11	21	0.09	25	0.08	27	0.13	19	0.09	25
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	<0.01	200	0.58	11	0.10i	23	0.02i	101	0.15i	17	<0.02	200
BDE-183	<0.01	200	0.03	67	<0.01	200	0.01	200	<0.01	200	0.01	200

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15527		15528		15529		15530		15534		15554	
LIMS Number	S07-013471		S07-013472		S07-013473		S07-013474		S07-013478		S07-013460	
Sample Details:	Pork liver		Fresh chicken legs - boneless		Chicken livers		British pork sliced liver		Chicken liver		Mirror carp	
Fat % Whole	3.69		15.23		4.55		3.82		5.31		4.95	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.02	101
BDE-28	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.04	51
BDE-47	0.13	78	0.08	125	0.08	125	0.19	74	0.09	112	0.34	60
BDE-49	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	0.07	115
BDE-66	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.04	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.12	67	0.08	101	0.09	90	0.12	84	0.10	81	<0.12	200
BDE-100	0.02	101	0.02	101	0.01	200	0.02	101	0.03	67	0.05	200
BDE-119	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.06	35	0.05	41	0.05	41	0.03	67	0.06	35	<0.05	200
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	<0.02	200	<0.01	200	<0.02	200	<0.01	200	0.01	200	0.06	35
BDE-183	0.11	21	0.12	20	0.02	101	0.02	101	0.08	27	<0.01	200

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15555		15557		15558		15564		15565		15566	
LIMS Number	S07-013461		S07-013485		S07-013488		S07-013482		S07-013480		S07-013483	
Sample Details:	Whitebait		Ox liver		Duck liver pâté with wine		Wild Atlantic salmon		Whitebait		Sprats	
Fat % Whole	9.08		3.30		25.49		7.79		2.07		21.64	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.02	200	<0.01	200	<0.01	200	0.05	41	0.36	12	0.02	101
BDE-28	0.34	12	<0.01	200	<0.01	200	0.24	13	8.17	10	0.19	15
BDE-47	2.67	13	0.11	164	0.77	26	4.23	12	147.32i	200	3.50	12
BDE-49	1.56	12	<0.01	200	0.01	200	0.56	18	98.51	10	1.44	12
BDE-66	0.36	25	<0.01	200	0.02	101	0.27	31	7.49	11	0.20	41
BDE-71	0.02	101	<0.01	200	<0.01	200	<0.01	200	0.33	12	0.01	200
BDE-77	0.14	18	<0.01	200	<0.01	200	0.01	200	0.25	13	0.02	101
BDE-85	<0.01	200	<0.01	200	0.03	67	<0.01	200	<0.09	200	<0.01	200
BDE-99	0.69	36	0.11	128	1.12	16	1.10	23	32.95	11	0.65	38
BDE-100	0.56	21	0.02	101	0.09	25	0.81	14	42.09	10	0.83	14
BDE-119	0.17	16	<0.01	200	<0.01	200	0.12	20	0.81	11	0.06	35
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.18	57	0.04	51	0.23	14	0.20	51	3.4	11	0.09	112
BDE138	<0.01	200	<0.01	200	0.02	101	<0.01	200	<0.01	200	<0.01	200
BDE 154	0.50	11	0.01	200	0.06	35	0.83	11	7.38	10	0.30	12
BDE-183	0.04	51	0.04	51	0.02	101	<0.01	200	0.09	25	<0.01	200

i - indicative value

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	15567		15569		15574		15579		15580		15654	
LIMS Number	S07-013479		S07-013490		S07-013495		S07-013500		S07-013502		S07-013506	
Sample Details:	English sprats		Spinach - Class 1		6 free range eggs - large		Pigs kidney		Boneless chicken thighs		Eels	
Fat % Whole	23.15		0.36		8.94		3.07		17.83		30.70	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	0.01	200	0.03	67	<0.01	200	<0.01	200	<0.01	200	0.05	41
BDE-28	0.15	17	0.10	41	<0.01	200	<0.01	200	<0.01	200	0.19	15
BDE-47	2.77	13	1.00	69	0.18	101	0.14	129	0.13	154	7.56	12
BDE-49	1.13	13	<0.13	200	0.01	200	<0.01	200	<0.04	200	1.48	15
BDE-66	0.16	51	<0.14	200	<0.01	200	<0.01	200	<0.04	200	0.27	60
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	<0.03	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.50	49	0.52	147	0.27	53	0.15	107	<0.12	200	0.43	103
BDE-100	0.65	19	<0.15	200	0.06	35	0.03	67	<0.05	200	1.96	13
BDE-119	0.05	41	<0.02	200	<0.01	200	<0.01	200	<0.01	200	0.13	19
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.07	143	<0.16	200	0.08	27	0.03	67	<0.05	200	0.28	65
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	0.25	13	0.04i	150	0.03	67	0.02	101	0.03	67	0.62	11
BDE-183	<0.01	200	0.04	51	0.05	41	0.01	200	0.01	200	0.02	101

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	16143		16145		16150		16151		16159	
LIMS No.	S07-013510		S07-013512		S07-013517		S07-013518		S07-013526	
Sample Details:	Traditional lamb sliced liver		Premium pork sausages		Jellied eels		Smoked eel		Lochmuir Scottish salmon portions	
Fat % Whole	8.15		23.88		10.61		35.66		16.54	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	<0.01	200	<0.01	200	0.03	67	0.04	51
BDE-28	<0.01	200	<0.01	200	0.13	19	0.50	11	0.11	21
BDE-47	0.08	51	0.16	16	2.42	11	19.85	10	1.68	12
BDE-49	<0.01	200	<0.01	200	0.50	11	1.78	11	0.37	12
BDE-66	<0.01	200	<0.01	200	0.07	30	0.33	12	0.13	19
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	<0.01	200	<0.01	200	0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.12	20	0.16	16	0.12	20	0.22	14	0.53	11
BDE-100	0.06	35	0.03	67	0.34	12	2.60	11	0.31	12
BDE-119	<0.01	200	<0.01	200	0.03	67	0.10	23	0.02	101
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	0.07	30	0.06	35	0.05	41	0.32	12	0.05	41
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	0.03	67	0.03	67	0.18	15	0.61	11	0.14	18
BDE-183	0.03	67	0.07	30	<0.01	200	<0.01	200	<0.01	200

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	16165		16166		16169		16170		16172	
LIMS No.	S07-013532		S07-013533		S07-013536		S07-013537		S07-013539	
Sample Details:	Wild venison liver		Whole Cornish mackerel		2 prime boneless salmon fillets		8 Cumberland pork sausages		Farmed red deer liver	
Fat % Whole	6.08		24.81		15.53		12.15		5.90	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	0.07	30	0.11	21	<0.01	200	<0.01	200
BDE-28	<0.01	200	0.60	11	0.31	12	<0.01	200	<0.01	200
BDE-47	0.06	67	8.71	10	5.45	10	0.19	64	0.28	18
BDE-49	<0.01	200	1.10	11	1.24	11	<0.01	200	<0.01	200
BDE-66	<0.01	200	0.65	11	0.21	14	<0.01	200	<0.01	200
BDE-71	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-77	<0.01	200	0.03	67	0.01	200	<0.01	200	<0.01	200
BDE-85	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE-99	0.03	134	3.24	11	1.00	11	0.18	15	0.16	27
BDE-100	<0.01	200	1.47	11	1.17	11	0.03	67	0.02	101
BDE-119	<0.01	200	0.06	35	0.07	30	<0.01	200	<0.01	200
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	<0.01	200	0.27	13	0.18	15	0.05	41	0.10	23
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	<0.01	200	0.47	11	0.55	11	0.02	101	0.02	101
BDE-183	<0.01	200	<0.01	200	<0.01	200	0.06	35	0.03	67

Table 5 (cont'd): Concentrations of PBDEs

CSL Sample No.	16173		16184		16186		16189	
LIMS No.	S07-013540		S07-013551		S07-013553		S08-009817	
Sample Details:	Lambs liver		Whole mackerel (gutted by fishmonger)		Herring (filleted by fishmonger)		Herring (filleted by fishmonger)	
Fat % Whole	6.44		2.06		19.42		9.68	
ug/kg fat weight	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U	ug/kg fat	% U
BDE-17	<0.01	200	0.06	35	<0.01	200	0.08	27
BDE-28	<0.01	200	0.68	11	0.28	13	1.55	11
BDE-47	0.03	134	18.26	11	4.87	11	85.91	10
BDE-49	<0.01	200	4.99	10	1.94	11	30.94	10
BDE-66	<0.01	200	2.41	11	0.24	13	1.43	11
BDE-71	<0.01	200	0.01	200	<0.01	200	0.11	21
BDE-77	<0.01	200	0.08	27	0.03	67	0.11	21
BDE-85	<0.01	200	0.02	101	<0.01	200	<0.01	200
BDE-99	0.03	67	4.32	11	0.86	11	6.73	10
BDE-100	<0.01	200	5.42	10	0.86	11	22.59	10
BDE-119	<0.01	200	0.47	11	0.10	23	0.52	11
BDE-126	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE153	<0.01	200	0.99	11	0.11	21	0.92	11
BDE138	<0.01	200	<0.01	200	<0.01	200	<0.01	200
BDE 154	<0.01	200	2.96	11	0.33	12	3.57	11
BDE-183	<0.01	200	0.02	101	<0.01	200	0.02	101

Table 6: Concentrations of HBCD and TBBPA

CSL Sample No. LIMS No.	15311 S07-013306	15312 S07-013307	15313 S07-013308	15314 S07-013309	15315 S07-013310	15316 S07-013311	15317 S07-013312	15320 S07-013315	15321 S07-013316	15322 S07-013317
Description	Mushy peas	Cauliflower - Class II	New Zealand sliced lambs liver	Rainbow trout	Organic boned Scottish salmon fillets	English lamb hearts	Best braising steak	Boneless leg of pork	Large eggs	Lincolnshire sausages
Fat - % of whole	0.6	0.4	7.1	6.9	13.8	8.1	3.3	16.5	8.8	15.3
µg/kg whole										
Alpha-HBCD	<0.01	<0.01	<0.04	4.24	0.66	0.05	<0.02	0.41	<0.02	0.44
Beta-HBCD	<0.01	<0.01	<0.03	0.85	<0.03	<0.03	<0.04	<0.05	<0.03	<0.01
Gamma-HBCD	<0.01	<0.01	<0.02	0.04	<0.03	<0.02	<0.02	<0.03	<0.02	<0.01
TBBPA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat										
Alpha-HBCD	<1.67	<2.5	<0.56	61.45	4.78	0.62	<0.61	2.48	<0.23	2.88
Beta-HBCD	<1.67	<2.5	<0.42	12.32	<0.22	<0.37	<1.21	<0.3	<0.34	<0.07
Gamma-HBCD	<1.67	<2.5	<0.28	0.58	<0.22	<0.25	<0.61	<0.18	<0.23	<0.07
TBBPA	<1.67	<2.5	<0.14	<0.14	<0.07	<0.12	<0.3	<0.06	<0.11	<0.07

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15323	15324	15326	15327	15328	15329	15344	15345	15346	15347
LIMS No.	S07-013318	S07-013319	S07-013321	S07-013322	S07-013323	S07-013324	S07-013329	S07-013330	S07-013332	S07-013333
Description	Vintage extra mature cheddar	Wholemeal bread	Rooster potatoes	Carrots – Class 1 (20 - 50mm)	Pure corn oil	Sweetcorn	Superfast Oats	Organic extra jam handmade strawberry preserve	Jersey potatoes in water	Olive oil - medium
Fat - % of whole	35.2	2.8	0.2	0.5	100	1.1	9.1	0.3	0.2	100
µg/kg whole										
Alpha-HBCD	<0.01	<0.04	<0.02	<0.01	<0.01	<0.05	<0.14	<0.08	<0.01	<0.68
Beta-HBCD	<0.01	<0.03	<0.01	<0.01	<0.69	<0.09	<0.27	<0.04	<0.03	<0.34
Gamma-HBCD	<0.01	<0.01	<0.01	<0.01	<0.01	0.04i	<0.06	<0.01	<0.01	<0.19
TBBPA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat										
Alpha-HBCD	<0.03	<1.43	<10.0	<2.0	<0.01	<4.55	<1.54	<26.6	<5.0	<0.68
Beta-HBCD	<0.03	<1.07	<5.0	<2.0	<0.69	<8.18	<2.97	<13.3	<15	<0.34
Gamma-HBCD	<0.03	<0.36	<5.0	<2.0	<0.01	3.64i	<0.66	<3.33	<5.0	<0.19
TBBPA	<0.03	<0.36	<5.0	<2.0	<0.01	<0.91	<0.11	<3.33	<5.0	<0.01

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

i - indicative value

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15348	15349	15350	15351	15358	15363	15364	15366	15368	15369
LIMS No.	S07-013334	S07-013335	S07-013336	S07-013337	S07-013358	S07-013363	S07-013364	S07-013368	S07-013370	S07-013371
Description	Red onions - Class 1 (40/60mm)	Somerset goat's cheese	British white potatoes - Osprey	Free range eggs – medium	Swede half	MSC wild Alaskan salmon fillets	Crispy oven fries	12 organic large free range eggs	British parsnips	Whole mackerel
Fat - % of whole	0.3	28.9	0.4	10.1	0.1	2.9	5.4	9.0	0.2	12.2
µg/kg whole										
Alpha-HBCD	<0.04	<0.14	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	1.02
Beta-HBCD	<0.02	<0.07	<0.03	<0.01	<0.01	<0.01	<0.01	<0.03	<0.02	0.09
Gamma-HBCD	<0.02	<0.04	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.09
TBBPA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.02
µg/kg fat										
Alpha-HBCD	<13.3	<0.48	<12.5	<0.1	<10.0	<0.34	<0.19	<0.11	5.0	8.36
Beta-HBCD	<6.67	<0.24	<7.5	<0.1	<10.0	<0.34	<0.19	<0.33	<10.0	0.74
Gamma-HBCD	<6.67	<0.14	<5.0	<0.1	<10.0	<0.34	<0.19	<0.22	<5.0	0.74
TBBPA	<3.33	<0.03	<2.5	<0.1	<10.0	<0.34	<0.19	<0.22	<5.0	<0.16

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15371	15373	15374	15375	15376	15377	15378	15379	15387	15389
LIMS No.	S07-013374	S07-013376	S07-013377	S07-013378	S07-013379	S07-013380	S07-013381	S07-013382	S07-013349	S07-013338
Description	British classic tomatoes - Class 1	Newmarket sausages	Organic milk	Cooked prawns – shell-on	Ox kidney	Dressed Whitby crab	Boneless shoulder of lamb	Turkey breast	Leeks	6 free range duck eggs
Fat - % of whole	0.2	14.0	3.2	2.2	8.7	6.2	15.3	6.2	0.1	15.0
µg/kg whole										
Alpha-HBCD	<0.01	<0.04	<0.01	0.04	<0.03	0.10	<0.05	<0.03	<0.01	<0.02
Beta-HBCD	<0.01	<0.03	<0.01	<0.01	<0.02	<0.03	<0.03	<0.03	<0.01	<0.01
Gamma-HBCD	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01
TBBPA	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat										
Alpha-HBCD	<5.0	<0.29	<0.31	1.82	<0.34	1.61	<0.33	<0.48	<10.0	<0.13
Beta-HBCD	<5.0	<0.21	<0.31	<0.45	<0.23	<0.48	<0.2	<0.48	<10.0	<0.07
Gamma-HBCD	<5.0	<0.14	<0.31	<0.45	<0.11	<0.16	<0.13	<0.32	<10.0	<0.07
TBBPA	<5.0	<0.07	<0.31	<1.36	<0.11	<0.16	<0.07	<0.16	<10.0	<0.07

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15390	15391	15395	15397	15398	15400	15401	15403	15404	15405
LIMS No.	S07-013344	S07-013357	S07-013351	S07-013355	S07-013356	S07-013350	S07-013372	S07-013341	S07-013342	S07-013440
Description	Welsh medium Cheddar	Welsh whole rainbow trout	Ox liver	Whole mackerel	Wild Alaskan salmon fillet	4 Scotch beef quarterpounders economy burgers	Cheese spread	Whole lemon sole	Cod fillet	Cheese & onion flavour potato crisps
Fat - % of whole	34.7	5.5	4.5	10.0	3.4	20.1	15.3	1.2	0.6	32.8
µg/kg whole										
Alpha-HBCD	<0.02	0.25	<0.02	0.92	<0.07	<0.10	<0.10	<0.07	<0.01	<0.17
Beta-HBCD	<0.22	<0.01	<0.02	<0.05	<0.05	<0.07	<0.07	<0.06	<0.01	<0.01
Gamma-HBCD	<0.01	<0.01	<0.01	<0.04	<0.04	<0.05	<0.05	<0.04	<0.01	<0.01
TBBPA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat										
Alpha-HBCD	<0.06	4.55	<0.44	9.20	<2.06	<0.5	<0.65	<5.83	<1.67	<0.52
Beta-HBCD	<0.63	<0.18	<0.44	<0.5	<1.47	<0.35	<0.46	<5.0	<1.67	<0.03
Gamma-HBCD	<0.03	<0.18	<0.22	<0.4	<1.18	<0.25	<0.33	<3.33	<1.67	<0.03
TBBPA	<0.03	<0.18	<0.22	<0.1	<0.29	<0.05	<0.07	<0.83	<1.67	<0.03

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15419	15420	15421	15422	15424	15425	15426	15427	15429	15430
LIMS No.	S07-013392	S07-013393	S07-013394	S07-013395	S07-013397	S07-013398	S07-013399	S07-013400	S07-013402	S07-013403
Description	Blackcurrant coulis	Free range organic eggs – medium	Boneless British turkey breast joint	British pork boneless leg roast	4 haddock fillets	Cornish brie	Whole herring	Plaice fillets	Lambs liver	Local venison fillet
Fat - % of whole	0.7	10.3	1.7	11.0	1.2	27.3	17.6	1.3	6.8	2.5
µg/kg whole										
Alpha-HBCD	<0.02	0.03	0.02	0.03	0.03	0.06	0.30i	<0.01	<0.03	<0.09
Beta-HBCD	<0.01	0.02	0.01	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.04
Gamma-HBCD	<0.01	<0.01	<0.01	<0.01	<0.02	<0.04	<0.03	<0.01	<0.02	<0.04
TBBPA	<0.02	<0.02	<0.02	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.05
µg/kg fat										
Alpha-HBCD	<2.86	0.29	1.18	0.27	2.50	0.22	1.70i	<0.77	<0.44	<3.6
Beta-HBCD	<1.43	0.19	0.59	<0.09	1.67	<0.07	<0.11	<0.77	<0.29	<1.6
Gamma-HBCD	<1.43	<0.1	<0.59	<0.09	<1.67	<0.15	<0.17	<0.77	<0.29	<1.6
TBBPA	<2.86	<0.19	<1.18	<0.09	<0.83	<0.11	<0.06	<0.77	<0.15	<2.0

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

i - indicative value

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15442	15443	15444	15445	15450	15451	15452	15487	15488	15493
LIMS No.	S07-013410	S07-013411	S07-013412	S07-013413	S07-013418	S07-013419	S07-013420	S07-013405	S07-013423	S07-013438
Description	Black pudding	Rump steak for braising	Rolled shoulder of lamb	Venison haugh joints	Whole herring	Cod fillet	Farmed salmon fillet - Freedom Food RSPCA monitored	Free range duck eggs	Mini Pringles savoury snack	Somerset brie
Fat - % of whole	30.4	3.6	18.2	2.8	24.1	0.7	11.7	16.2	30.7	24.1
µg/kg whole										
Alpha-HBCD	<0.20	<0.09	<0.01	<0.03	0.39	0.08i	0.53	<0.01	<0.01	<0.05
Beta-HBCD	<0.09	<0.04	<0.01	<0.04	<0.06	<0.05	<0.05	<0.01	<0.01	<0.05
Gamma-HBCD	<0.09	<0.04	<0.01	<0.01	<0.02	<0.01	0.03	<0.01	<0.01	<0.04
TBBPA	<0.11	<0.05	<0.01	<0.03	<0.01	<0.01	<0.01	<0.03	<0.10	<0.05
µg/kg fat										
Alpha-HBCD	<0.66	<2.5	<0.05	<1.07	1.62	11.43i	4.53	<0.06	<0.03	<0.21
Beta-HBCD	<0.3	<1.11	<0.05	<1.43	<0.25	<7.14	<0.43	<0.06	<0.03	<0.21
Gamma-HBCD	<0.3	<1.11	<0.05	<0.36	<0.08	<1.43	0.26	<0.06	<0.03	<0.17
TBBPA	<0.36	<1.39	<0.05	<1.07	<0.04	<1.43	<0.09	<0.19	<0.33	<0.21

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

i - indicative value

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15498	15499	15500	15501	15503	15508	15509	15510	15511	15512
LIMS No.	S07-013434	S07-013435	S07-013436	S07-013432	S07-013437	S07-013454	S07-013452	S07-013453	S07-013456	S07-013447
Description	Dover sole	Plaice fillets	Venison liver	Lambs kidney	Pure sunflower oil	Smoked eel	Medium half fat cheese food slices	Duddleswell sheeps milk cheese	Wild Atlantic salmon	Whole Cornish sardines
Fat - % of whole	1.2	2.6	3.4	3.3	100	39.1	10.4	35	9	15.1
µg/kg whole										
Alpha-HBCD	0.06i	<0.02	<0.06	<0.04	<0.55	5.56	<0.01	<0.01	0.07	0.42
Beta-HBCD	<0.02	<0.02	<0.04	<0.02	<0.31	0.08	<0.01	<0.02	<0.03	<0.01
Gamma-HBCD	<0.01	<0.01	<0.01	<0.01	<0.07	0.06	<0.01	<0.01	<0.02	<0.01
TBBPA	<0.01	<0.01	<0.08	<0.05	<0.65	<0.03	<0.04	<0.02	<0.02	<0.01
µg/kg fat										
Alpha-HBCD	5.0i	<0.77	<1.76	<1.21	<0.55	14.22	<0.1	<0.03	0.78	2.78
Beta-HBCD	<1.67	<0.77	<1.18	<0.61	<0.31	0.20	<0.1	<0.06	<0.33	<0.07
Gamma-HBCD	<0.83	<0.38	<0.29	<0.3	<0.07	0.15	<0.1	<0.03	<0.22	<0.07
TBBPA	<0.83	<0.38	<2.35	<1.52	<0.65	<0.08	<0.38	<0.06	<0.22	<0.07

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15513	15516	15526	15527	15528	15529	15530	15534	15554	15555
LIMS No.	S07-013459	S07-013446	S07-013470	S07-013471	S07-013472	S07-013473	S07-013474	S07-013478	S07-013460	S07-013461
Description	Pasteurised ewes milk	Whole Cornish sardines - frozen	Lambs kidney	Pork liver	Fresh chicken legs - boneless	Chicken livers	British pork sliced liver	Chicken liver	Mirror carp	Whitebait
Fat - % of whole	6.5	5.5	3.7	3.7	15.2	4.5	3.8	5.3	4.9	9.1
µg/kg whole										
Alpha-HBCD	<0.01	0.29	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.01	0.47
Beta-HBCD	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.04	<0.04	<0.01	<0.01
Gamma-HBCD	<0.01	<0.01	<0.01	<0.03	<0.03	<0.01	<0.01	<0.01	<0.01	0.07
TBBPA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat										
Alpha-HBCD	<0.15	5.27	<0.27	<0.27	<0.07	<0.22	1.32	<0.19	0.20	5.16
Beta-HBCD	<0.15	<0.18	<0.27	<0.27	<0.07	<0.67	<1.05	<0.75	<0.2	<0.11
Gamma-HBCD	<0.15	<0.18	<0.27	<0.81	<0.2	<0.22	<0.26	<0.19	<0.2	0.77
TBBPA	<0.15	<0.18	<0.27	<0.27	<0.07	<0.22	<0.26	<0.19	<0.2	<0.11

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	15557	15558	15564	15565	15566	15567	15569	15574	15579	15580	15654
LIMS No.	S07-013485	S07-013488	S07-013482	S07-013480	S07-013483	S07-013479	S07-013490	S07-013495	S07-013500	S07-013502	S07-013506
Description	Ox liver	Duck liver pâté with wine	Wild Atlantic salmon	Whitebait	Sprats	English sprats	Spinach - Class 1	6 free range eggs - large	Pigs kidney	Boneless chicken thighs	Eels
Fat - % of whole	3.3	25.5	7.8	2.1	21.6	23.2	0.4	8.9	3.1	17.8	30.7
µg/kg whole											
Alpha-HBCD	<0.01	<0.03	0.30	6.52	0.61	0.58	<0.01	<0.02	<0.02	<0.01	1.94
Beta-HBCD	<0.04	<0.02	0.07	0.05	0.07	0.07	<0.01	<0.01	<0.01	<0.01	<0.02
Gamma-HBCD	<0.01	<0.01	0.01	0.04	0.045	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
TBBPA	<0.01	<0.01	<0.01	<0.02	<0.03	<0.01	<0.02	<0.01	<0.02	<0.01	<0.01
µg/kg fat											
Alpha-HBCD	<0.3	<0.12	3.85	310.5	2.82	2.50	<2.5	<0.22	<0.65	<0.06	6.32
Beta-HBCD	<1.21	<0.08	0.90	2.38	0.32	0.30	<2.5	<0.11	<0.32	<0.06	<0.07
Gamma-HBCD	<0.3	<0.04	0.13	1.90	0.21	0.17	<2.5	<0.11	<0.32	<0.06	<0.03
TBBPA	<0.3	<0.04	<0.13	<0.95	<0.14	<0.04	<5.0	<0.11	<0.65	<0.06	<0.03

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	16143	16145	16150	16151	16159	16165	16166	16169	16170	16172
LIMS No.	S07-013510	S07-013512	S07-013517	S07-013518	S07-013526	S07-013532	S07-013533	S07-013536	S07-013537	S07-013539
Description	Traditional lamb sliced liver	Premium pork sausages	Jellied eels	Smoked eel	Lochmuir Scottish salmon portions	Wild venison liver	Whole Cornish mackerel	2 prime boneless salmon fillets	Cumberland pork sausages	Farmed red deer liver
Fat - % of whole	8.1	23.9	10.6	35.7	16.5	6.1	24.8	15.5	12.1	5.9
µg/kg whole										
Alpha-HBCD	<0.01	0.08i	0.10	25.1i	0.09	<0.01	0.33	0.21	0.03	<0.01
Beta-HBCD	<0.01	<0.02	<0.01	0.86i	<0.01	<0.01	<0.20	<0.01	<0.01	<0.01
Gamma-HBCD	<0.01	<0.01	<0.01	1.67	<0.01	<0.01	0.03	0.01	<0.01	<0.01
TBBPA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat										
Alpha-HBCD	<0.12	0.33i	0.94	70.31i	0.55	<0.16	1.33	1.35	0.25	<0.17
Beta-HBCD	<0.12	<0.08	<0.09	2.41i	<0.06	<0.16	<0.81	<0.06	<0.08	<0.17
Gamma-HBCD	<0.12	<0.04	<0.09	4.66	<0.06	<0.16	0.12	0.06	<0.08	<0.17
TBBPA	<0.12	<0.04	<0.09	<0.03	<0.06	<0.16	<0.04	<0.06	<0.08	<0.17

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

i - indicative value

Table 6 (cont'd): Concentrations of HBCD and TBBPA

CSL Sample No.	16173	16184	16186	16189
LIMS No.	S07-013540	S07-013551	S07-013553	S08-009817
Description	Lambs liver	Whole mackerel (gutted by fishmonger)	Herring (filleted by fishmonger)	Herring (filleted by fishmonger)
Fat - % of whole	6.4	2.1	19.4	9.7
µg/kg whole				
Alpha-HBCD	<0.02	0.3	0.57	8.63
Beta-HBCD	<0.02	<0.01	<0.02	<0.03
Gamma-HBCD	<0.01	<0.02	0.04	0.13
TBBPA	<0.01	<0.01	<0.01	<0.01
µg/kg fat				
Alpha-HBCD	<0.31	14.29	2.94	88.97
Beta-HBCD	<0.31	<0.48	<0.1	<0.31
Gamma-HBCD	<0.16	<0.95	0.21	1.34
TBBPA	<0.16	<0.48	<0.05	<0.1

% Uncertainty for the above measurements are as follows: α -HBCD 19%, β -HBCD 17%, γ -HBCD 19%, TBBPA 22%

Table 7: Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15311	15312	15313	15314	15315	15316	15317	15320	15321	15322	15323	15324
LIMS No.	S07-013306	S07-013307	S07-013308	S07-013309	S07-013310	S07-013311	S07-013312	S07-013315	S07-013316	S07-013317	S07-013318	S07-013319
Description	Mushy peas	Cauliflower Class II	New Zealand sliced lambs liver	Rainbow trout	Organic boned Scottish salmon fillets	English lamb hearts	Best braising steak	Boneless leg of pork	Large eggs	Lincolnshire sausages	Vintage extra mature cheddar	Wholemeal bread
Fat - % of whole	0.6	0.4	7.1	6.9	13.8	8.1	3.3	16.5	8.8	15.3	35.2	2.8
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.15
DBDPE	<0.03	<0.01	<0.23	<0.04	<0.05	<0.04	<0.03	<0.05	<0.04	<0.06	<0.10	<0.16
BDE209	<0.04	<0.01	<0.11	<0.06	<0.08	<0.06	<0.04	<0.08	<0.05	0.11	0.19	0.05
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<1.67	<2.5	<0.14	<0.14	<0.07	<0.12	<0.3	<0.06	<0.11	<0.07	<0.03	<0.36
BTBPE	<1.67	<2.5	0.42	<0.14	<0.07	<0.12	<0.3	<0.06	<0.11	<0.07	<0.03	<5.36
DBDPE	<5.0	<2.5	<3.24	<0.58	<0.36	<0.49	<0.91	<0.3	<0.45	<0.39	<0.28	<5.71
BDE209	<6.67	<2.5	<1.55	<0.87	<0.58	<0.74	<1.21	<0.48	<0.57	0.72	0.54	1.79
PBB209	<1.67	<2.5	<0.14	<0.14	<0.07	<0.12	0.91	<0.06	<0.11	<0.07	<0.03	<0.36

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15326	15327	15328	15329	15344	15345	15346	15347	15348	15349	15350	15351
LIMS No.	S07-013321	S07-013322	S07-013323	S07-013324	S07-013329	S07-013330	S07-013332	S07-013333	S07-013334	S07-013335	S07-013336	S07-013337
Description	Rooster potatoes	Carrots - Class 1 (20 - 50mm)	Pure corn oil	Sweetcorn	Superfast Oats	Organic extra jam handmade strawberry preserve	Jersey potatoes in water	Olive oil - medium	Red onions - Class 1 (40/60mm)	Somerset goat's cheese	British white potatoes - Osprey	Free range eggs - medium
Fat - % of whole	0.2	0.5	100	1.1	9.1	0.3	0.2	100	0.3	28.9	0.4	10.1
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.06	<0.03	<0.11	<0.08	<0.04	0.18	<0.01	<0.11	<0.01	<0.04	0.01	<0.02
DBDPE	<0.06	<0.03	<0.26	<0.09	<0.09	ND	<0.01	<0.35	<0.01	<0.09	<0.02	<0.08
BDE209	<0.01	<0.01	<0.11	<0.01	<0.04	ND	0.01	<0.11	<0.01	0.04	<0.01	<0.09
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01	ND	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<5.0	<2.0	<0.01	<0.91	<0.11	<3.33	<5.0	<0.01	<3.33	<0.03	<2.5	<0.1
BTBPE	<30	<6.0	<0.11	<7.27	<0.44	60.00	<5.0	<0.11	<3.33	<0.14	2.50	<0.2
DBDPE	<30	<6.0	<0.26	<8.18	<0.99	ND	<5.0	<0.35	<3.33	<0.31	<5.0	<0.79
BDE209	<5.0	<2.0	<0.11	<0.91	<0.44	ND	5.00	<0.11	<3.33	0.14	<2.5	<0.89
PBB209	<5.0	<2.0	<0.01	<0.91	<0.11	ND	<5.0	<0.01	<3.33	<0.03	<2.5	<0.1

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

ND- not determined

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15358	15363	15364	15366	15368	15369	15371	15373	15374	15375	15376	15377
LIMS No.	S07-013358	S07-013363	S07-013364	S07-013368	S07-013370	S07-013371	S07-013374	S07-013376	S07-013377	S07-013378	S07-013379	S07-013380
Description	Swede	MSC wild Alaskan salmon fillets	Crispy oven fries	12 organic large free range eggs	British parsnips	Whole mackerel	British classic tomatoes - Class 1	6 Newmarket sausages	Organic milk	Cooked prawns - shell-on	Ox kidney	Dressed Whitby crab
Fat - % of whole	0.1	2.9	5.4	9.0	0.2	12.2	0.2	14.0	3.2	2.2	8.7	6.2
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.01	<0.02	<0.01	<0.02	0.02	0.03	<0.01	<0.03	<0.01	<0.01	0.05	<0.02
DBDPE	<0.02	<0.07	<0.06	ND	<0.04	<0.11	<0.01	<0.13	<0.03	<0.10	<0.04	<0.14
BDE209	<0.02	0.02	<0.02	0.05	0.03	0.08	0.02	0.09	<0.01	<0.08	0.02i	<0.11
PBB209	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<10	<0.34	<0.19	<0.11	<5.0	<0.08	<5.0	<0.07	<0.31	<0.45	<0.11	<0.16
BTBPE	<10	<0.69	<0.19	<0.22	10.00	0.25	<5.0	<0.21	<0.31	<0.45	0.57	<0.32
DBDPE	<20	<2.41	<1.11	ND	<20	<0.9	<5.0	<0.93	<0.94	<4.55	<0.46	<2.26
BDE209	<20	0.69	<0.37	0.56	15.00	0.66	10.00	0.64	<0.31	<3.64	0.23i	<1.77
PBB209	<10	<0.34	<0.19	0.22	<5.0	<0.08	<5.0	<0.07	<0.31	<0.45	<0.11	<0.16

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

ND- not determined i - indicative value

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15378	15379	15387	15389	15390	15391	15395	15397	15398	15400	15401	15403
LIMS No.	S07-013381	S07-013382	S07-013349	S07-013338	S07-013344	S07-013357	S07-013351	S07-013355	S07-013356	S07-013350	S07-013372	S07-013341
Description	Boneless shoulder of lamb	Turkey breast	Leeks	6 free range duck eggs	Welsh medium Cheddar	Welsh whole rainbow trout	Ox liver	Whole mackerel	Wild Alaskan salmon fillet	4 Scotch beef quarterpounders economy burgers	Cheese spread	Whole lemon sole
Fat - % of whole	15.3	6.2	0.1	15	34.7	5.5	4.5	10	3.4	20.1	15.3	1.2
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.01	<0.01	<0.01	<0.01	<0.03	<0.01	<0.02	0.03	<0.01	0.02	<0.02	0.04
DBDPE	<0.08	<0.08	<0.02	<0.11	<0.27	<0.07	<0.05	<0.09	<0.08	<0.17	<0.17	<0.10
BDE209	<0.07	<0.06	<0.01	0.05	<0.05	<0.01	<0.02	<0.02	<0.02	<0.03	<0.03	<0.05
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<0.07	<0.16	<10	<0.07	<0.03	<0.18	<0.22	<0.1	<0.29	<0.05	<0.07	<0.83
BTBPE	<0.07	<0.16	<10	<0.07	<0.09	<0.18	<0.44	0.30	<0.29	0.10	<0.13	3.33
DBDPE	<0.52	<1.29	<20	<0.73	<0.78	<1.27	<1.11	<0.9	<2.35	<0.85	<1.11	<8.33
BDE209	<0.46	<0.97	<10	0.33	<0.14	<0.18	<0.44	<0.2	<0.59	<0.15	<0.2	<4.17
PBB209	<0.07	<0.16	<10	<0.07	<0.03	<0.18	<0.22	<0.1	<0.29	<0.05	<0.07	<0.83

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15404	15405	15419	15420	15421	15422	15424	15425	15426	15427	15429	15430
LIMS No.	S07-013342	S07-013440	S07-013392	S07-013393	S07-013394	S07-013395	S07-013397	S07-013398	S07-013399	S07-013400	S07-013402	S07-013403
Description	Cod fillet	Cheese & onion flavour potato crisps	Blackcurrant coulis	Free range organic eggs - medium	Boneless British turkey breast joint	British pork boneless leg roast	4 haddock fillets	Cornish brie	Whole herring	Plaice fillets	Lambs liver	Local venison fillet
Fat - % of whole	0.6	32.8	0.7	10.3	1.7	11	1.2	27.3	17.6	1.3	6.8	2.5
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.01	0.04	<0.01	0.03	0.03	0.06	0.01	<0.04	0.07	<0.01	<0.02	<0.01
DBDPE	<0.06	<0.21	<0.01	<0.18	<0.06	<0.15	<0.05	<0.28	<0.20	<0.04	<0.10	<0.06
BDE209	<0.01	<0.04	0.02	0.09	0.05i	0.03	<0.01	<0.03	<0.10	<0.01	<0.02	<0.02
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<1.67	<0.03	<1.43	<0.1	<0.59	<0.09	<0.83	<0.04	<0.06	<0.77	<0.15	<0.4
BTBPE	<1.67	0.12	<1.43	0.29	1.76	0.55	0.83	<0.15	0.40	<0.77	<0.29	<0.4
DBDPE	<10	<0.64	<1.43	<1.75	<3.53	<1.36	<4.17	<1.03	<1.14	<3.08	<1.47	<2.4
BDE209	<1.67	<0.12	2.86	0.87	2.94i	0.27	<0.83	<0.11	<0.57	<0.77	<0.29	<0.8
PBB209	<1.67	<0.03	<1.43	<0.1	<0.59	<0.09	<0.83	<0.04	<0.06	<0.77	<0.15	<0.4

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15442	15443	15444	15445	15450	15451	15452	15487	15488	15493	15498	15499
LIMS No.	S07-013410	S07-013411	S07-013412	S07-013413	S07-013418	S07-013419	S07-013420	S07-013405	S07-013423	S07-013438	S07-013434	S07-013435
Description	Black pudding	Rump steak for braising	Rolled shoulder of lamb	Venison haugh joints	Whole herring	Cod fillet	Farmed salmon fillet - Freedom Food RSPCA monitored	Free range duck eggs	Mini Pringles savoury snack	Somerset brie	Dover sole	Plaice fillets
Fat - % of whole	30.4	3.6	18.2	2.8	24.1	0.7	11.7	16.2	30.7	24.1	1.2	2.6
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.05	0.02	0.01	<0.01	0.06	<0.01	0.03	<0.02	<0.03	<0.03	<0.01	<0.05
DBDPE	<0.42	<0.08	<0.10	<0.07	<0.15	<0.04	<0.12	<0.18	<0.30	<0.25	<0.04	<0.06
BDE209	<0.20	0.03	<0.01	0.02	0.03	0.01	0.13	0.16	0.06	0.04	<0.01	<0.07
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<0.03	<0.28	<0.05	<0.36	<0.04	<1.43	<0.09	<0.06	<0.03	<0.04	<0.83	<0.38
BTBPE	<0.16	0.56	0.05	<0.36	0.25	<1.43	0.26	<0.12	<0.1	<0.12	<0.83	<1.92
DBDPE	<1.38	<2.22	<0.55	<2.5	<0.62	<5.71	<1.03	<1.11	<0.98	<1.04	<3.33	<2.31
BDE209	<0.66	0.83	<0.05	0.71	0.12	1.43	1.11	0.99	0.20	0.17	<0.83	<2.69
PBB209	<0.03	<0.28	<0.05	<0.36	<0.04	<1.43	<0.09	<0.06	0.07	<0.04	<0.83	<0.38

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15500	15501	15503	15508	15509	15510	15511	15512	15513	15516	15526	15527
LIMS No.	S07-013436	S07-013432	S07-013437	S07-013454	S07-013452	S07-013453	S07-013456	S07-013447	S07-013459	S07-013446	S07-013470	S07-013471
Description	Venison liver	Lambs kidney	Pure sunflower oil	Smoked eel	Medium half fat cheese food slices	Duddleswell sheep milk cheese	Wild Atlantic salmon	Whole Cornish sardines	Pasteurised ewes milk	Whole Cornish sardines - frozen	Lambs kidney	Pork liver
Fat - % of whole	3.4	3.3	100	39.1	10.4	35	9	15.1	6.5	5.5	3.7	3.7
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.09	<0.07	<0.45	<0.25	<0.13	<0.05	<0.07	<0.02	<0.04	<0.01	0.02	0.03i
DBDPE	<0.11	<0.08	<0.55	<0.30	<0.16	<0.37	<0.09	<0.15	<0.05	<0.08	<0.09	<0.12
BDE209	<0.13	<0.10	<0.65	<0.36	<0.19	<0.04	<0.11	<0.02	<0.06	0.02	<0.01	<0.02
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<0.29	<0.3	<0.01	<0.03	<0.1	<0.03	<0.11	<0.07	<0.15	<0.18	<0.27	<0.27
BTBPE	<2.65	<2.12	<0.45	<0.64	<1.25	<0.14	<0.78	<0.13	<0.62	<0.18	0.54	0.81i
DBDPE	<3.24	<2.42	<0.55	<0.77	<1.54	<1.06	<1.0	<0.99	<0.77	<1.45	<2.43	<3.24
BDE209	<3.82	<3.03	<0.65	<0.92	<1.83	<0.11	<1.22	<0.13	<0.92	0.36	<0.27	<0.54
PBB209	<0.29	<0.3	<0.01	<0.03	<0.1	<0.03	<0.11	<0.07	<0.15	<0.18	<0.27	<0.27

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

i - indicative value

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15528	15529	15530	15534	15554	15555	15557	15558	15564	15565	15566	15567
LIMS No.	S07-013472	S07-013473	S07-013474	S07-013478	S07-013460	S07-013461	S07-013485	S07-013488	S07-013482	S07-013480	S07-013483	S07-013479
Description	Fresh chicken legs - boneless	Chicken livers	British pork sliced liver	Chicken liver	Mirror carp	Whitebait	Ox liver	Duck liver pâté with wine	Wild Atlantic salmon	Whitebait	Sprats	English sprats
Fat - % of whole	15.2	4.5	3.8	5.3	4.9	9.1	3.3	25.5	7.8	2.1	21.6	23.2
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.01	<0.02	<0.02	0.04	<0.01	0.07	<0.01	<0.03	<0.02	<0.01	<0.02	<0.04
DBDPE	<0.09	<0.09	<0.12	<0.22	<0.06	<0.09	<0.12	<0.11	<0.05	<0.03	<0.07	<0.13
BDE209	0.09i	0.23	0.02	<0.11	<0.01	0.07	<0.02	0.04	<0.01	0.01	<0.02	0.32
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<0.07	<0.22	<0.26	<0.19	<0.2	<0.11	<0.3	<0.04	<0.13	<0.48	<0.05	<0.04
BTBPE	<0.07	<0.44	<0.53	0.75	<0.2	0.77	<0.3	<0.12	<0.26	<0.48	<0.09	<0.17
DBDPE	<0.59	<2.0	<3.16	<4.15	<1.22	<0.99	<3.64	<0.43	<0.64	<1.43	<0.32	<0.56
BDE209	0.59i	5.11	0.53	<2.08	<0.2	0.77	<0.61	0.16	<0.13	0.48	<0.09	1.38
PBB209	<0.07	<0.22	<0.26	<0.19	<0.2	<0.11	<0.3	<0.04	<0.13	<0.48	<0.05	<0.04

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

i - indicative value

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	15569	15574	15579	15580	15654
LIMS No.	S07-013490	S07-013495	S07-013500	S07-013502	S07-013506
Description	Spinach – Class 1	6 free range eggs - large	Pigs kidney	Boneless Chicken thighs	Eels
Fat - % of whole	0.4	8.9	3.1	17.8	30.7
µg/kg whole					
HBB	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.01	<0.02	<0.02	<0.03	<0.05
DBDPE	<0.03	<0.09	<0.06	<0.25	<0.15
BDE209	<0.01	0.06	0.05	<0.12	0.12
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat					
HBB	<2.5	<0.11	<0.32	<0.06	<0.03
BTBPE	<2.5	<0.22	<0.65	<0.17	<0.16
DBDPE	<7.5	<1.01	<1.94	<1.4	<0.49
BDE209	<2.5	0.67	1.61	<0.67	0.39
PBB209	<2.5	<0.11	<0.32	<0.06	<0.03

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	16143	16145	16150	16151	16159	16165	16166	16169	16170	16172	16173	16184
LIMS No.	S07-013510	S07-013512	S07-013517	S07-013518	S07-013526	S07-013532	S07-013533	S07-013536	S07-013537	S07-013539	S07-013540	S07-013551
Description	Traditional lamb sliced liver	Premium pork sausages	Jellied eels	Smoked eel	Lochmuir Scottish salmon portions	Wild venison liver	Whole Cornish mackerel	2 prime boneless salmon fillets	Cumberland pork sausages	Farmed red deer liver	Lambs liver	Whole mackerel (gutted by fishmonger)
Fat - % of whole	8.1	23.9	10.6	35.7	16.5	6.1	24.8	15.5	12.1	5.9	6.4	2.1
µg/kg whole												
HBB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTBPE	<0.20	<0.16	<0.12	<0.34	<0.16	<0.19	<0.19	<0.16	<0.17	<0.19	<0.03	<0.02
DBDPE	<0.10	<0.17	<0.06	<0.16	<0.08	<0.09	<0.09	<0.08	<0.08	<0.09	<0.19	<0.12
BDE209	<0.02	<0.03	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02	0.06	0.46	<0.02	<0.01
PBB209	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
µg/kg fat												
HBB	<0.12	<0.04	<0.09	<0.03	<0.06	<0.16	<0.04	<0.06	<0.08	<0.17	<0.16	<0.48
BTBPE	<2.47	<0.67	<1.13	<0.95	<0.97	<3.11	<0.77	<1.03	<1.4	<3.22	<0.47	<0.95
DBDPE	<1.23	<0.71	<0.57	<0.45	<0.48	<1.48	<0.36	<0.52	<0.66	<1.53	<2.97	<5.71
BDE209	<0.25	<0.13	<0.19	<0.11	<0.12	<0.33	<0.08	<0.13	0.50	7.80	<0.31	<0.48
PBB209	<0.12	<0.04	<0.09	<0.03	<0.06	<0.16	<0.04	<0.06	<0.08	<0.17	<0.16	<0.48

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209

Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

Table 7 (cont'd): Concentrations of HBB, BTBPE, DBDPE, BDE-209 & BB-209

Sample No.	16186	16189
LIMS No.	S07-013553	S08-009817
Description	Herring (filleted by fishmonger)	Herring (filleted by fishmonger)
Fat - % of whole	19.4	9.7
µg/kg whole		
HBB	<0.01	<0.01
BTBPE	<0.03	<0.02
DBDPE	<0.20	<0.17
BDE209	<0.02	<0.02
PBB209	<0.01	<0.01
µg/kg fat		
HBB	<0.05	<0.1
BTBPE	<0.15	<0.21
DBDPE	<1.03	<1.75
BDE209	<0.1	<0.21
PBB209	<0.05	<0.1

Typical uncertainty - 40% for HBB and PBB209, 120% for BTBPE, DBDPE and BDE209
 Typical uncertainty at LOD - 100% for HBB and PBB209, 250% for BTBPE, DBDPE and BDE209

Table 9: Analysis of reference material CRM-350

		Reference material analysed in sample batches					
		17320	17369	17444	17526	17408	17461
PBDEs		Concentrations in µg/kg oil					
	Mean						
BDE-28	2.56	2.48	2.59	2.61	2.5	2.44	2.73
BDE-47	38.54	38.64	39.99	39.16	38.36	37.62	37.46
BDE-49	10.53	10.66	10.84	10.96	10.13	10.32	10.25
BDE-66	2.70	2.8	2.95	2.73	2.51	2.49	2.7
BDE-99	9.48	9.87	9.88	9.72	9.15	9.12	9.15
BDE-100	5.99	6.36	6.29	6.39	5.4	5.66	5.84
BDE153	1.23	1.25	1.26	1.24	1.16	1.22	1.26
BDE 154	1.74	1.66	1.71	2.11	1.63	1.55	1.75
PBBs							
BB-49	0.54	0.53	0.56	0.56	0.5	0.5	0.56
BB-52	1.48	1.47	1.54	1.51	1.43	1.46	1.44
BB-101	1.05	1.07	1.09	1.08	0.95	0.98	1.14
BB-153	1.67	1.64	1.73	1.69	1.63	1.67	1.64

Note: Values are non-certified, and are given to show quality and consistency of measurement