



Marchwood Scientific Services

Unit 4G Central Crescent,
Marchwood Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4BJ

Tel: 02380-669126
Fax: 02380-669127

Name of Client : BAE Systems

Test Certificate No: 105-1679

Address : Property & Environmental Services, Brisance House, Eutox Lane, PR7 6AQ

ANALYSIS OF PCDDs and PCDFs

Job Reference:
Sample Identifier : TP1416 LN2695
Sample No: 105-1679
Order No: 69/05

Date of Receipt : 29/07/05
Date of Analysis : 03/08/05
Date of Report : 05/08/05
No of Samples in Batch : 3
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 30805

Test Method : 1122
Blank : 105-1713
Sample Size : 11.3

expressed as ng / g

Congener	Conc	TEFs	TEQ ¹	TEQ ²	DL	Rec %	Error %
2378-TCDF	0.0006	0.100	0.0001	0.0001	0.0001	85	
12378-PCDF	0.0010	0.050	0.0000	0.0000	0.0001	98	
23478-PCDF	0.0010	0.500	0.0005	0.0005	0.0001	91	
123478-HxCDF	0.0011	0.100	0.0001	0.0001	0.0001	91	
123678-HxCDF	0.0009	0.100	0.0001	0.0001	0.0001	92	
234678-HxCDF	0.0009	0.100	0.0001	0.0001	0.0001	89	
123789-HxCDF	0.0006	0.100	0.0001	0.0001	0.0001	91	
1234678-HpCDF	0.0556	0.010	0.0006	0.0006	0.0001	99	
1234789-HpCDF	0.0016	0.010	0.0000	0.0000	0.0001	92	
OCDF	0.0197	0.001	0.0000	0.0000	0.0001		
2378-TCDD	0.0003	1.000	0.0003	0.0003	0.0001	95	
12378-PCDD	0.0014	0.500	0.0007	0.0007	0.0001	114	
123478-HxCDD	0.0013	0.100	0.0001	0.0001	0.0001	108	
123678-HxCDD	0.0022	0.100	0.0002	0.0002	0.0001	105	
123789-HxCDD	0.0012	0.100	0.0001	0.0001	0.0001		
1234678-HpCDD	0.0099	0.010	0.0001	0.0001	0.0001	110	
OCDD	0.0247	0.001	0.0000	0.0000	0.0001	93	
TEQ (Nato)			0.0031	0.0031			10

* Isomer Not detected
TEQ Toxic Equivalent Value
TEF Toxic Equivalent Factor
Conc Concentration
DL Detection Value

TEQ¹ Concentration of Non Detected
Congeners at Detection Limit
TEQ² Concentration of Non Detected
Congeners at Zero

Name of Analyst : K Pettit
Position : Technical Manager

Signature of Analyst : 



Batch 4



Marchwood Scientific Services

DATE OF RECEIPT
18 AUG 2005

Unit 4G Central Crescent,
Marchwood Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4BJ

Tel: 02380-669126
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Name of Client : BAE Systems

Test Certificate No: 105-1680

Address : Property & Environmental Services, Brisance House, Eutox Lane, PR7 6AQ

ANALYSIS OF PCDDs and PCDFs

Job Reference:
Sample Identifier : TP1418 LN2696
Sample No: 105-1680
Order No: 69/05

Date of Receipt : 29/07/05
Date of Analysis : 03/08/05
Date of Report : 05/08/05
No of Samples in Batch : 3
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 30805

Test Method : 1122
Blank : 105-1713
Sample Size : 10.7

expressed as ng / g

Congener	Conc	TEFs	TEQ ¹	TEQ ²	DL	Rec %	Error %
2378-TCDF	0.0016	0.100	0.0002	0.0002	0.0001	87	
12378-PCDF	0.0020	0.050	0.0001	0.0001	0.0001	89	
23478-PCDF	0.0025	0.500	0.0013	0.0013	0.0001	81	
123478-HxCDF	0.0025	0.100	0.0003	0.0003	0.0001	89	
123678-HxCDF	0.0031	0.100	0.0003	0.0003	0.0001	88	
234678-HxCDF	0.0019	0.100	0.0002	0.0002	0.0001	87	
123789-HxCDF	0.0007	0.100	0.0001	0.0001	0.0001	90	
1234678-HpCDF	0.0140	0.010	0.0001	0.0001	0.0001	92	
1234789-HpCDF	0.0009	0.010	0.0000	0.0000	0.0001	89	
OCDF	0.0059	0.001	0.0000	0.0000	0.0001		
2378-TCDD	0.0003	1.000	0.0003	0.0003	0.0001	105	
12378-PCDD	0.0013	0.500	0.0007	0.0007	0.0001	99	
123478-HxCDD	0.0011	0.100	0.0001	0.0001	0.0001	102	
123678-HxCDD	0.0025	0.100	0.0003	0.0003	0.0001	101	
123789-HxCDD	0.0017	0.100	0.0002	0.0002	0.0001		
1234678-HpCDD	0.0214	0.010	0.0002	0.0002	0.0001	102	
OCDD	0.0502	0.001	0.0001	0.0001	0.0001	97	
TEQ (Nato)			0.0043	0.0043			10

* Isomer Not detected
TEQ Toxic Equivalent Value
TEF Toxic Equivalent Factor
Conc Concentration
DL Detection Value

TEQ¹ Concentration of Non Detected Congeners at Detection Limit
TEQ² Concentration of Non Detected Congeners at Zero

Name of Analyst : K Pettit
Position : Technical Manager

Signature of Analyst :





Marchwood Scientific Services

Unit 4G Central Crescent,
Marchwood Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4BJ

Tel: 02380-669126
Fax: 02380-669127

Name of Client : BAE Systems

Test Certificate No: 105-1678

Address : Property & Environmental Services, Brisance House, Eutox Lane, PR7 6AQ

ANALYSIS OF PCDDs and PCDFs

Job Reference:
Sample Identifier : TP1410 LN2686
Sample No: 105-1678
Order No: 69/05

Date of Receipt : 29/07/05
Date of Analysis : 03/08/05
Date of Report : 05/08/05
No of Samples in Batch : 3
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 30805

Test Method : 1122
Blank : 105-1713
Sample Size : 10.4

expressed as ng / g

Congener	Conc	TEFs	TEQ ¹	TEQ ²	DL	Rec %	Error %
2378-TCDF	0.0009	0.100	0.0001	0.0001	0.0001	93	
12378-PCDF	0.0008	0.050	0.0000	0.0000	0.0001	81	
23478-PCDF	0.0009	0.500	0.0004	0.0004	0.0001	74	
123478-HxCDF	0.0008	0.100	0.0001	0.0001	0.0001	93	
123678-HxCDF	0.0009	0.100	0.0001	0.0001	0.0001	94	
234678-HxCDF	0.0007	0.100	0.0001	0.0001	0.0001	94	
123789-HxCDF	0.0003	0.100	0.0000	0.0000	0.0001	94	
1234678-HpCDF	0.0046	0.010	0.0000	0.0000	0.0001	94	
1234789-HpCDF	0.0004	0.010	0.0000	0.0000	0.0001	86	
OCDF	0.0035	0.001	0.0000	0.0000	0.0001		
2378-TCDD	0.0002	1.000	0.0002	0.0002	0.0001	107	
12378-PCDD	0.0010	0.500	0.0005	0.0005	0.0002	88	
123478-HxCDD	0.0006	0.100	0.0001	0.0001	0.0002	102	
123678-HxCDD	0.0021	0.100	0.0002	0.0002	0.0002	100	
123789-HxCDD	0.0016	0.100	0.0002	0.0002	0.0002		
1234678-HpCDD	0.0143	0.010	0.0001	0.0001	0.0001	99	
OCDD	0.0460	0.001	0.0000	0.0000	0.0001	87	
TEQ (Nato)			0.0023	0.0023			10

* Isomer Not detected
TEQ Toxic Equivalent Value
TEF Toxic Equivalent Factor
Conc Concentration
DL Detection Value

TEQ¹ Concentration of Non Detected
Congeners at Detection Limit
TEQ² Concentration of Non Detected
Congeners at Zero

Name of Analyst : K Pettit
Position : Technical Manager

Signature of Analyst :





Marchwood Scientific Services

DATE OF RECEIPT
11 OCT 2005

Unit 4G Central Crescent,
Marchwood Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4BJ

Tel: 02380-669126

Fax: 02380-669127

Name of Client : BAE Systems

Address : Brisance House, Euxton Lane, Chorley, PR7 6AQ

Test Certificate No: 105-2044

ANALYSIS OF PCDDs and PCDFs

Job Reference:

Sample Identifier : LN4223/05 HA1511 0-0.2m

Sample No: 105-2044

Order No: 98/05

Date of Receipt : 16/09/05

Date of Analysis : 24/09/05

Date of Report : 30/09/05

No of Samples in Batch :

Sample Condition : normal

Instrument : Micromass Ultima NT

GC Column : DB5

Calibration File : 240905

Test Method : 1122

Blank : 105-2081

Sample Size : 10.2

expressed as ng / g

Congener	Conc	TEFs	TEQ ¹	TEQ ²	DL	Rec %	Error %
2378-TCDF	0.0018	0.100	0.0002	0.0002	0.0002	65	
12378-PCDF	0.0013	0.050	0.0001	0.0001	0.0002	60	
23478-PCDF	0.0017	0.500	0.0008	0.0008	0.0002	52	
123478-HxCDF	0.0023	0.100	0.0002	0.0002	0.0002	79	
123678-HxCDF	0.0015	0.100	0.0002	0.0002	0.0002	78	
234678-HxCDF	0.0014	0.100	0.0001	0.0001	0.0002	73	
123789-HxCDF	*	0.100	0.0000	0.0000	0.0002	80	
1234678-HpCDF	0.0083	0.010	0.0001	0.0001	0.0002	72	
1234789-HpCDF	0.0010	0.010	0.0000	0.0000	0.0003	77	
OCDF	0.0098	0.001	0.0000	0.0000	0.0006		
2378-TCDD	*	1.000	0.0002	0.0000	0.0002	85	
12378-PCDD	*	0.500	0.0001	0.0000	0.0003	68	
123478-HxCDD	0.0005	0.100	0.0001	0.0001	0.0004	86	
123678-HxCDD	0.0006	0.100	0.0001	0.0001	0.0004	82	
123789-HxCDD	0.0007	0.100	0.0001	0.0001	0.0003		
1234678-HpCDD	0.0060	0.010	0.0001	0.0001	0.0005	84	
OCDD	0.0293	0.001	0.0000	0.0000	0.0010	79	
TEQ (Nato)			0.0023	0.0020			10

* Isomer Not detected
 TEQ Toxic Equivalent Value
 TEF Toxic Equivalent Factor
 Conc Concentration
 DL Detection Value

TEQ¹ Concentration of Non Detected
 Congeners at Detection Limit
 TEQ² Concentration of Non Detected
 Congeners at Zero

Name of Analyst : K Pettit
 Position : Technical Manager

Signature of Analyst : *10*

