



ICP Test Report Certification Packet

Company name: Littelfuse, Inc.
Product Series: GDT
Product #: SL1021A and SL1021B Series
Issue Date: April 3, 2009

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/package materials, and for additives and the like in the manufacturing processes. In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/package materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by: Donna Untch

<Global Environmental, Health & Safety Manager>

(1) Parts, sub-materials and unit parts

This document covers the GDT RoHS-Compliant series products manufactured by Littelfuse, Inc.

< Raw Materials Used
Please see Table 1

(2) The ICP data on all measurable substances

Please see appropriate pages as identified in Table 1

Remarks :



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	N/A	Ceramic	3-6
2	N/A	Copper Electrode	7-10
3	N/A	Silver Brazing Ring	11-14
4	N/A	Silicon Oil	15-18
5	N/A	Blue Ink	19-22
6	N/A	Terminal Wire	23-26
7	N/A	Failsafe Clip	27-30
8	N/A	Solder Pill	31-34
9	N/A	Red Ink	35-38

Test Report

No. LPCI/10214(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Ceramic
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 9 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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B.Sc.(HONS) AMIC
LAB MANAGER

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Test Report

No. LPCI/10214(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 2 of 4


Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	N.D.	2	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :

As per page 3

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Test Report

No. LPCI/10214(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

Sample Description : Ceramic

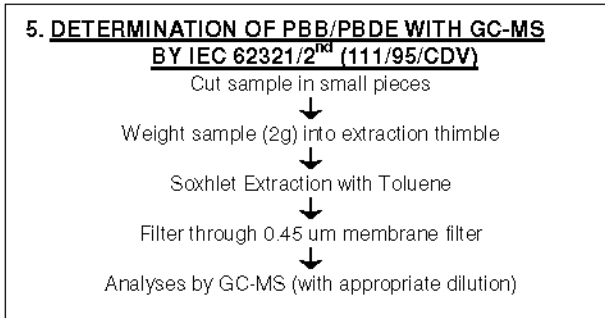
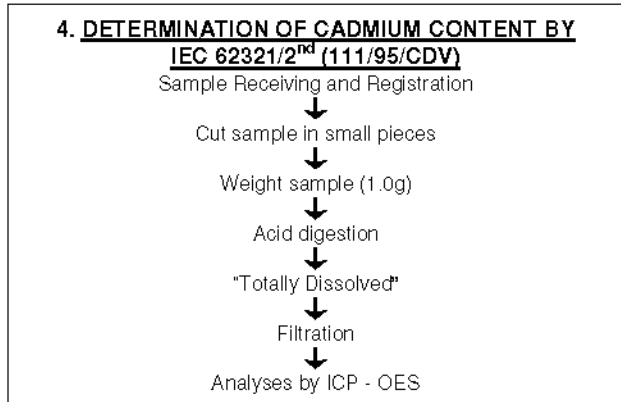
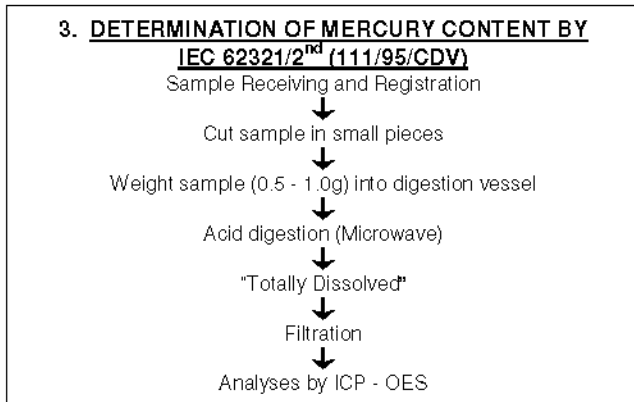
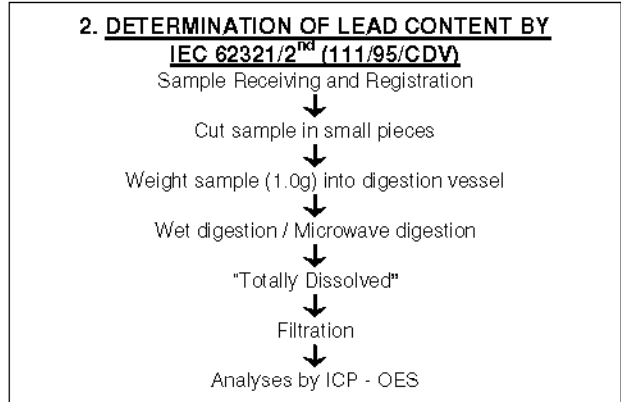
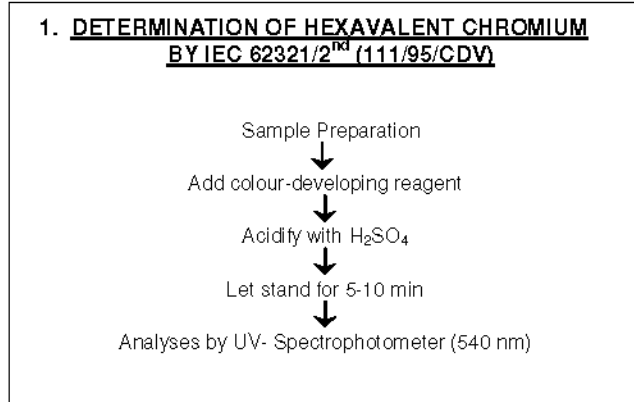


- Note : (a) mg/kg = ppm
(b) N.D. = Not Detected
(c) MDL = Method Detection Limit
(d) This report supersedes report no. LPCI/10214(B)/08

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**** End of Report ****

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Test Report

No. LPCI/10215(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Copper Electrode
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 8.5.1 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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Test Report

No. LPCI/10215(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 2 of 4

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	Negative	*	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :

As per page 3

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Test Report

No. LPCI/10215(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

Sample Description : Copper Electrode

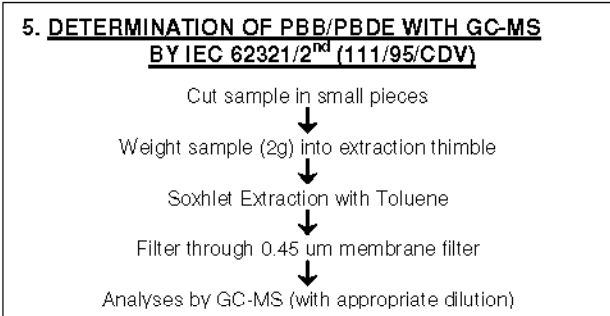
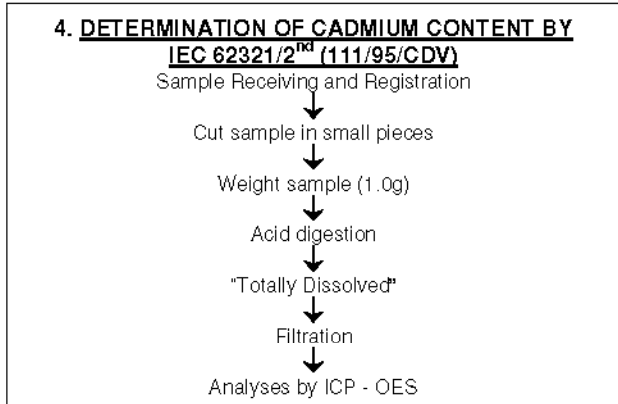
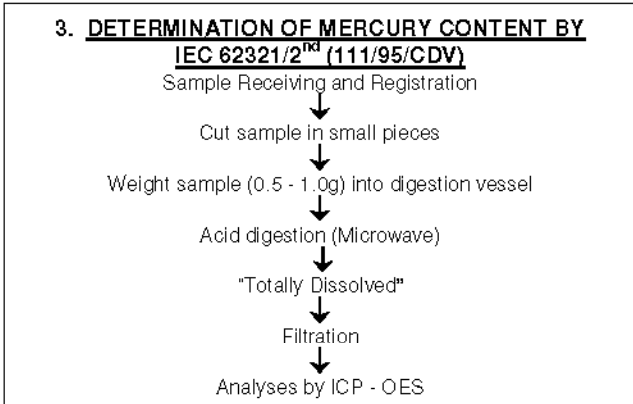
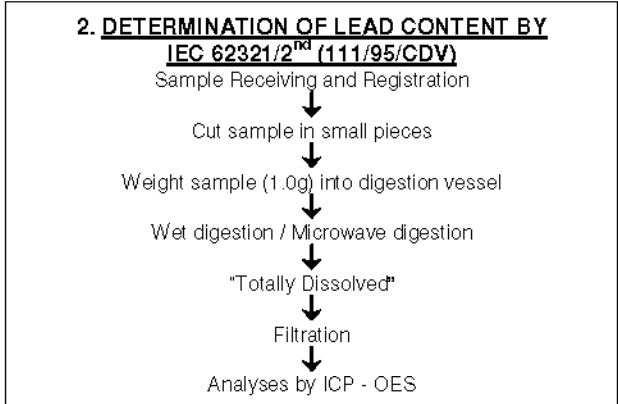
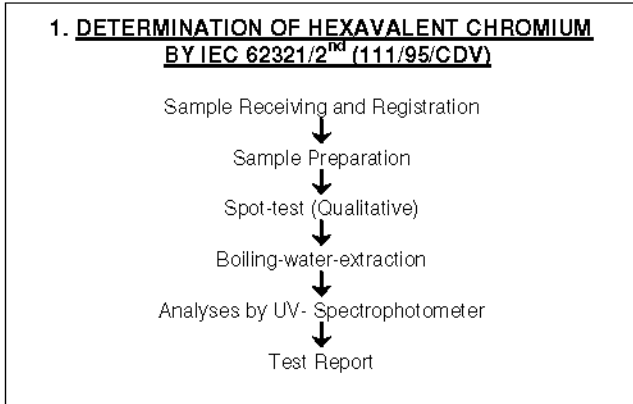


- Note :
- (a) mg/kg = ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) *Detection limit = 1 mg/kg of Hexavalent Chromium on the tested areas
Negative = less than detection limit
 - (e) This report supersedes report no. LPCI/10215(B)/08

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**** End of Report ****

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Test Report

No. LPCI/10217(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Silver Ring
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 8.5.1 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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No. LPCI/10217(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 2 of 4


Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	Negative	*	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :

As per page 3

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Test Report

No. LPCI/10217(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

Sample Description : Silver Ring

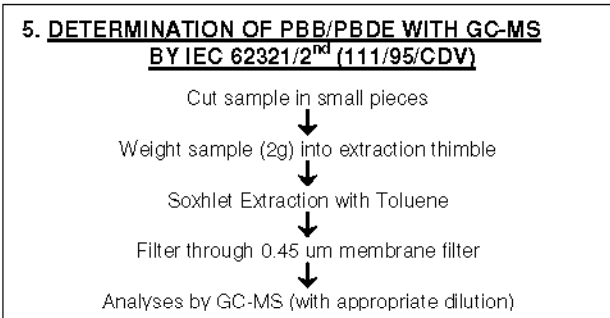
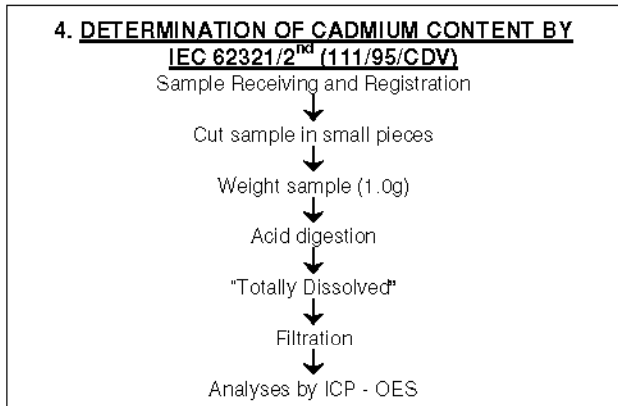
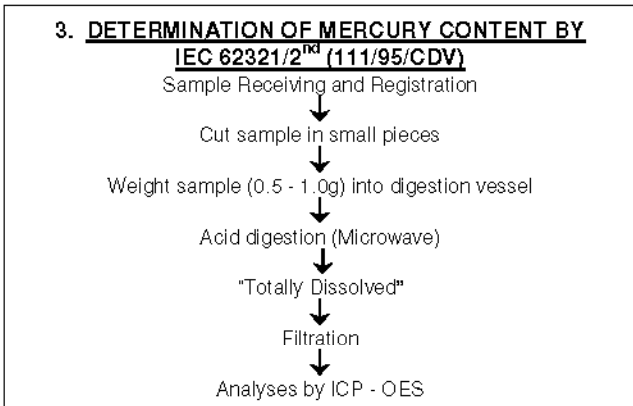
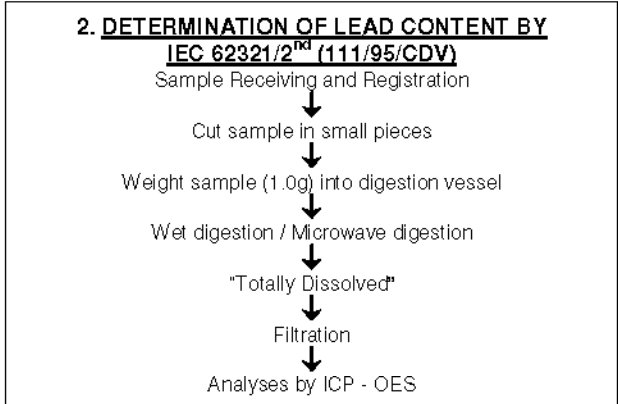
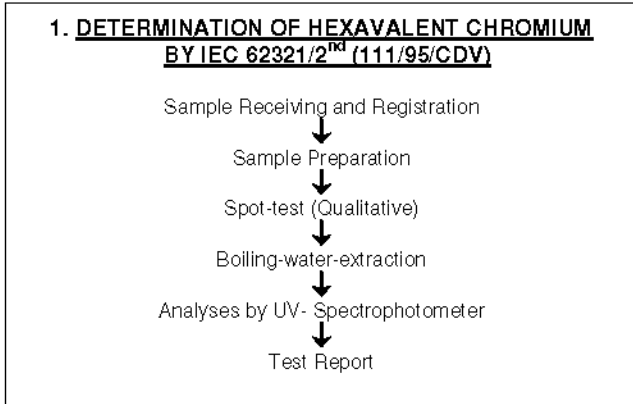


- Note :
- (a) mg/kg = ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) *Detection limit = 1 mg/kg of Hexavalent Chromium on the tested areas
Negative = less than detection limit
 - (e) This report supersedes report no. LPCI/10217(B)/08

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Test Report

No. LPCI/10223(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Silicon Oil
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 9 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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Test Report

No. LPCI/10223(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26


Page: 2 of 4

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	N.D.	2	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :
 As per page 3

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Test Report

No. LPCI/10223(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

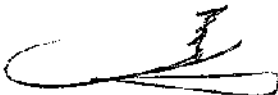
Sample Description : Silicon Oil

LITTELFUSE INC.
LPCI/10223(B-AD)/08



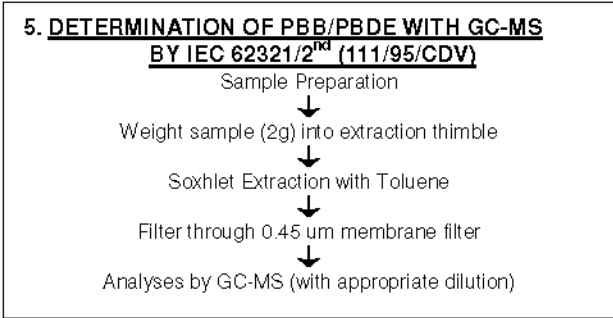
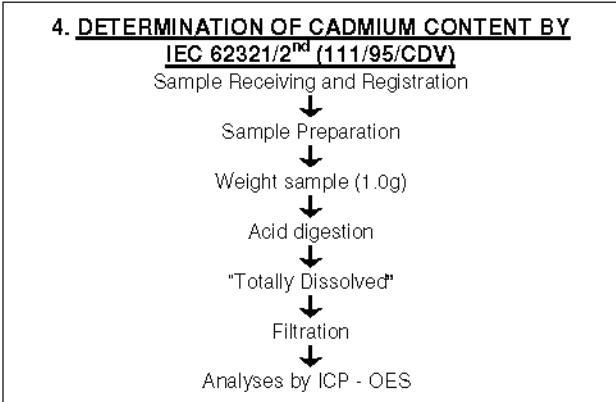
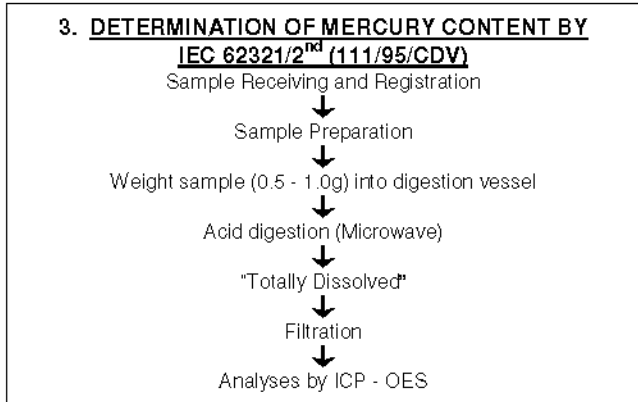
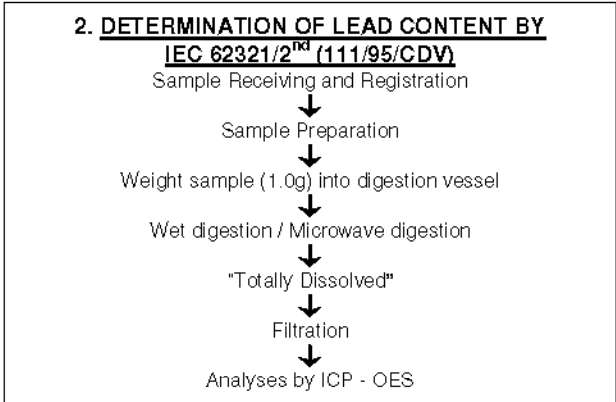
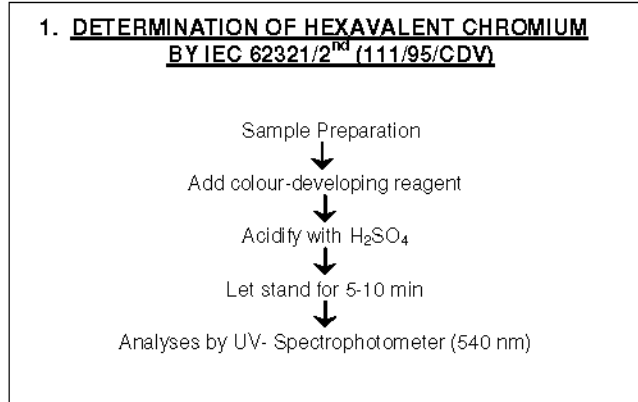
- Note : (a) mg/kg = ppm
(b) N.D. = Not Detected
(c) MDL = Method Detection Limit
(d) Testing based on original basis
(e) This report supersedes report no. LPCI/10223(B)/08

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Test Report

No. LPCI/10227(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Blue Ink
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 9 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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Test Report

No. LPCI/10227(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 2 of 4

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	N.D.	2	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :
 As per page 3

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Test Report

No. LPCI/10227(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

Sample Description : Blue Ink

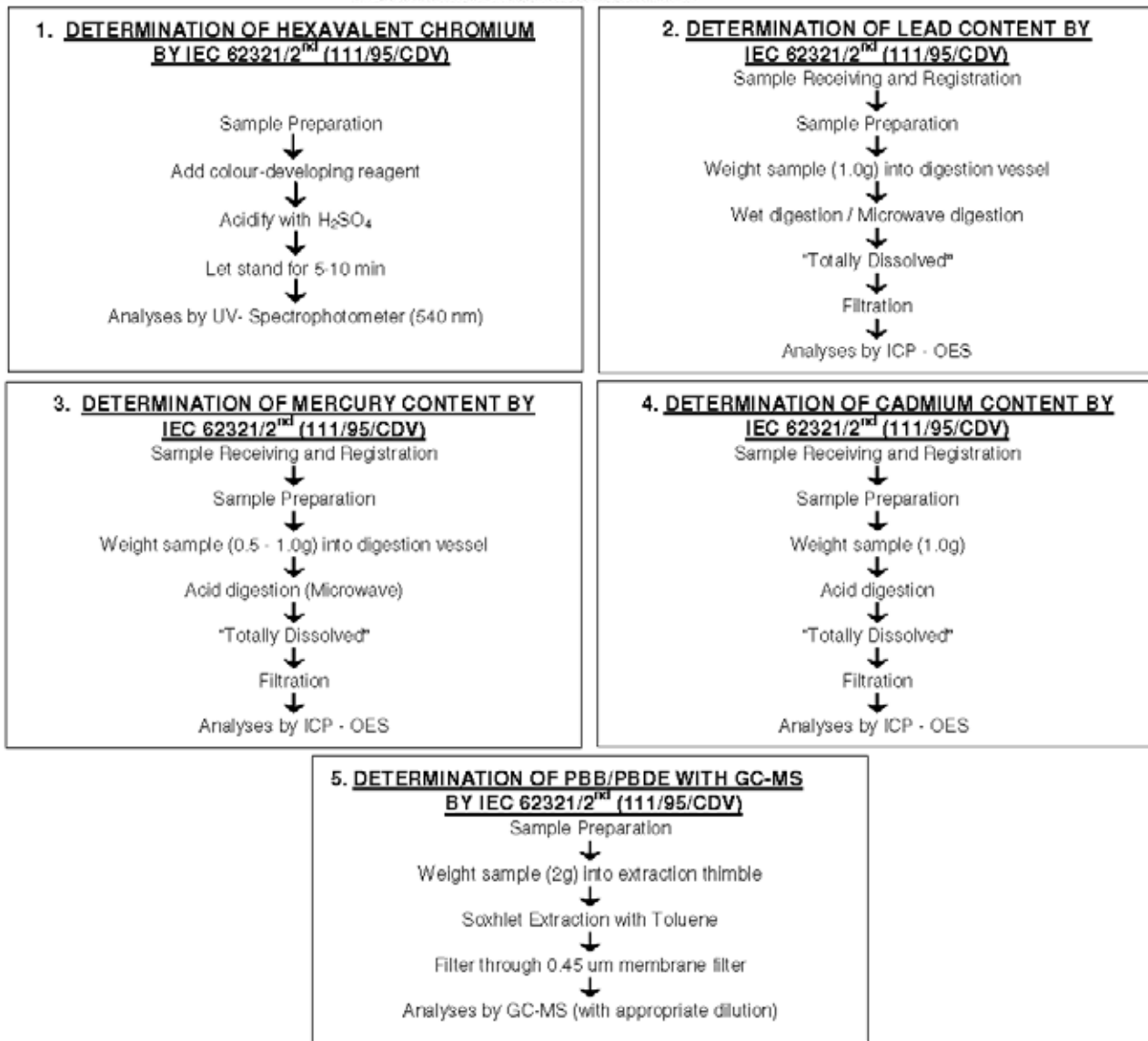


- Note : (a) mg/kg = ppm
(b) N.D. = Not Detected
(c) MDL = Method Detection Limit
(d) Testing based on original basis
(e) This report supersedes report no. LPCI/10227(B)/08

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Test Report

No. LPCI/10220(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Terminal Wire (Tin Plated)
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 8.5.1 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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Test Report

No. LPCI/10220(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 2 of 4


Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	Negative	*	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :

As per page 3

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Test Report

No. LPCI/10220(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

Sample Description : Terminal Wire (Tin Plated)

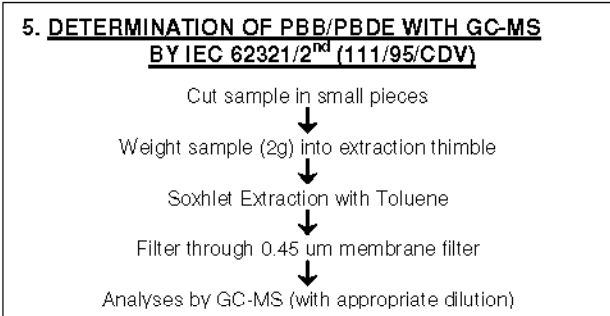
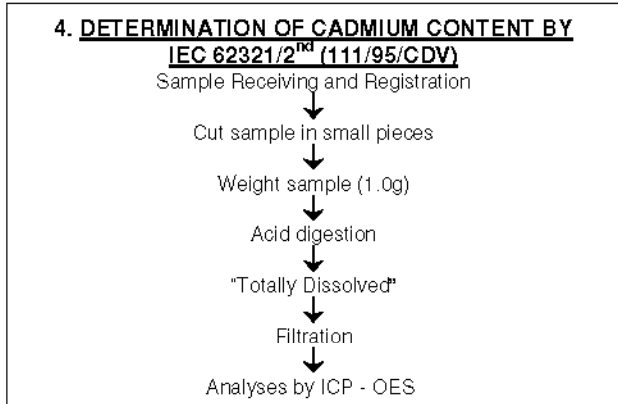
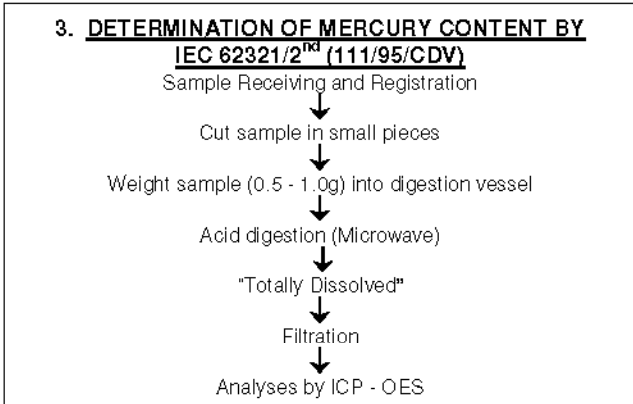
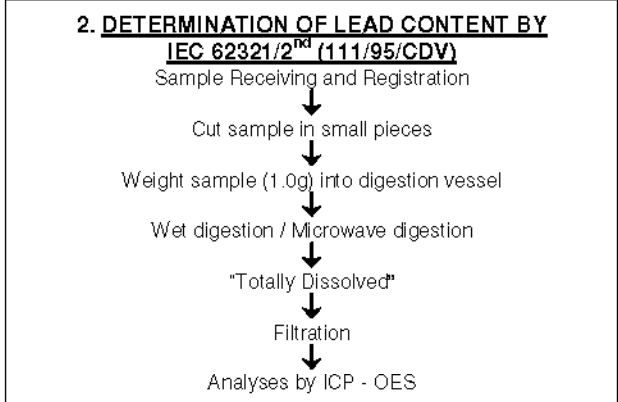
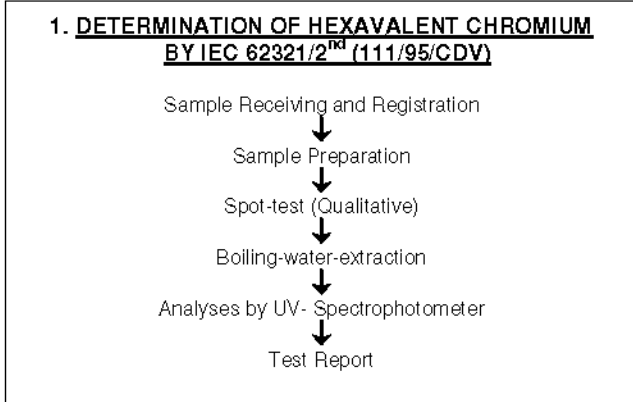


- Note :
- (a) mg/kg = ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) *Detection limit = 1 mg/kg of Hexavalent Chromium on the tested areas
Negative = less than detection limit
 - (e) This report supersedes report no. LPCI/10220(B)/08

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Test Report

No. LPCI/10218(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Fail safe Clip
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 8.5.1 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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Test Report

No. LPCI/10218(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 2 of 4


Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	25	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	Negative	*	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :

As per page 3

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Test Report

No. LPCI/10218(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

Sample Description : Fail safe Clip

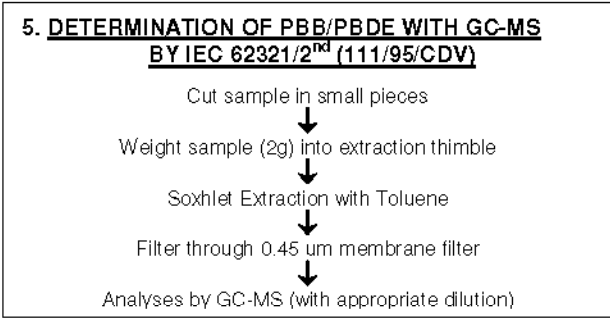
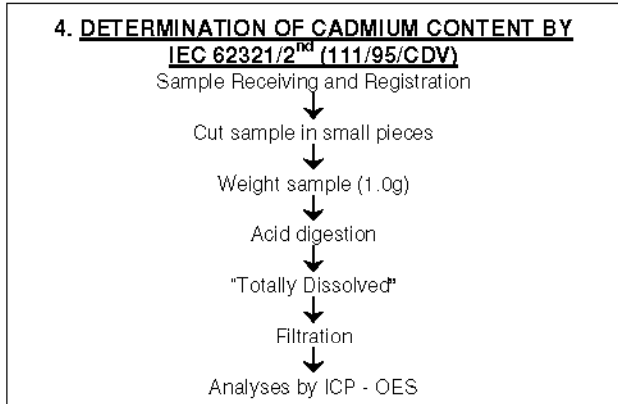
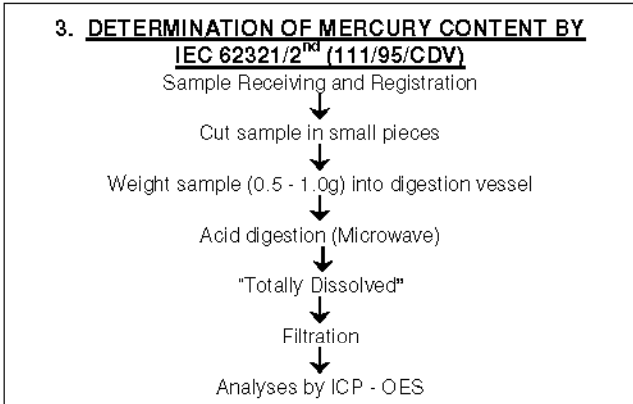
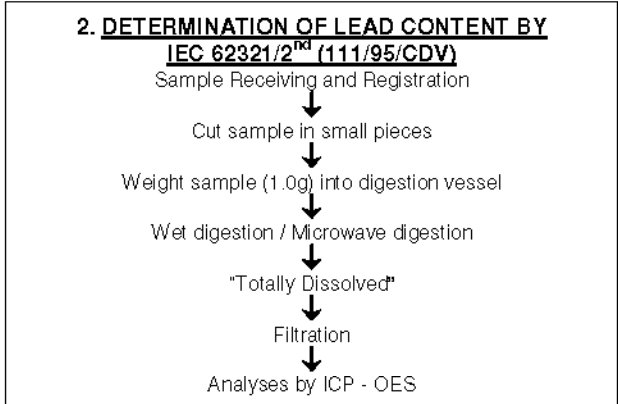
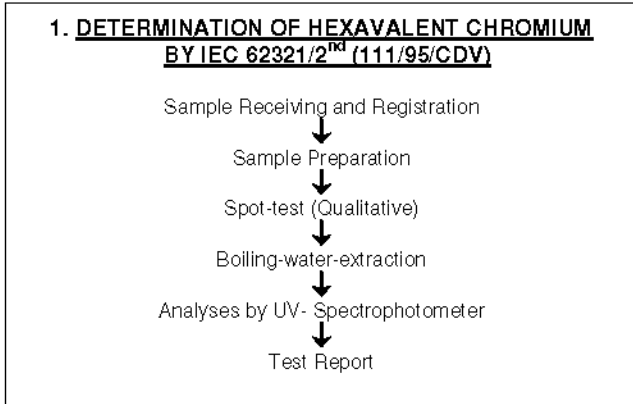


- Note :
- (a) mg/kg = ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) *Detection limit = 1 mg/kg of Hexavalent Chromium on the tested areas
Negative = less than detection limit
 - (e) This report supersedes report no. LPCI/10218(B)/08

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Test Report

No. LPCI/10219(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Solder Pill
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 8.5.1 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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Test Report

No. LPCI/10219(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 2 of 4

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	360	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	Negative	*	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :

As per page 3

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Test Report

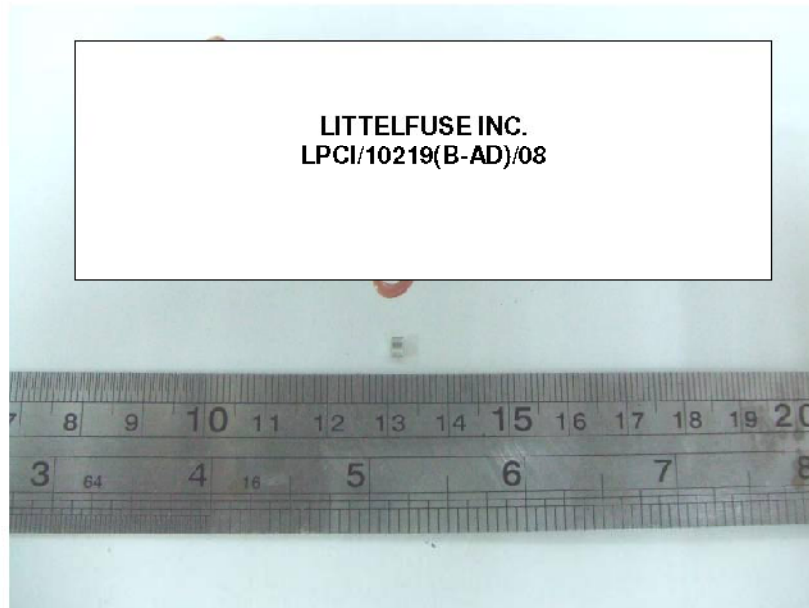
No. LPCI/10219(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

Sample Description : Solder Pill

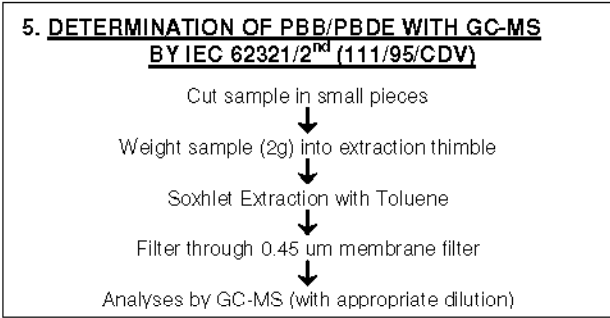
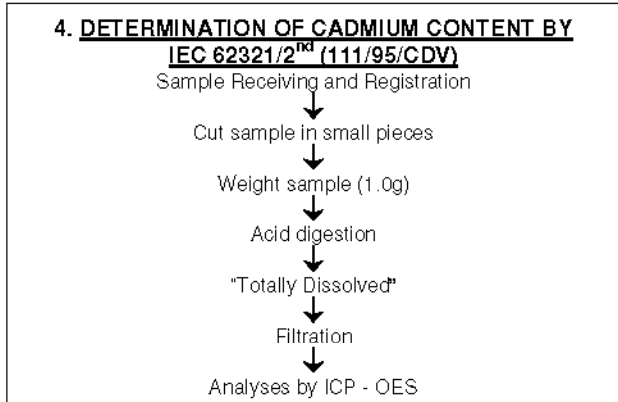
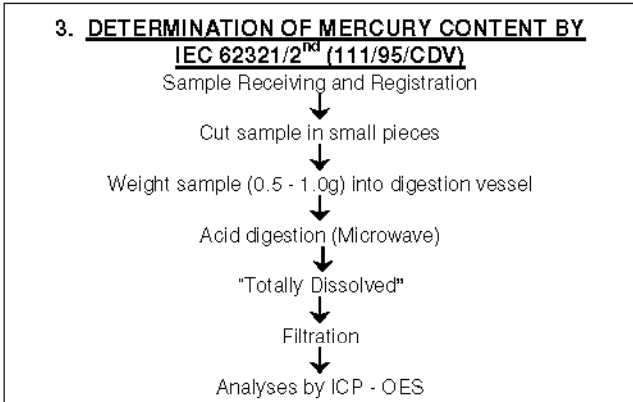
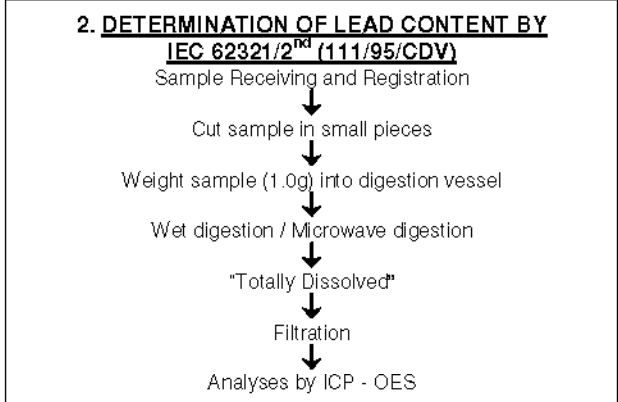
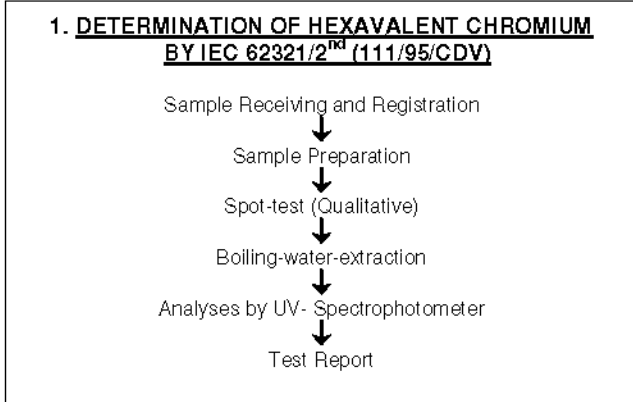


- Note :
- (a) mg/kg = ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) *Detection limit = 1 mg/kg of Hexavalent Chromium on the tested areas
Negative = less than detection limit
 - (e) This report supersedes report no. LPCI/10219(B)/08

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Test Report

No. LPCI/10228(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY
DES PLAINES,
IL 60016, USA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Red Ink
Sample Receiving Date : 2008/05/16
Testing Period : 2008/05/16 to 2008/05/26

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP - OES
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP - OES
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP - OES
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 9 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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Test Report

No. LPCI/10228(B-AD)/08
 CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 2 of 4


Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	Limit of RoHS
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI)	(4)	N.D.	2	1000
Sum of Polybrominated Biphenyl (PBBs) (Mono to Deca)	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	-
Dibromobiphenyl		N.D.	5	-
Tribromobiphenyl		N.D.	5	-
Tetrabromobiphenyl		N.D.	5	-
Pentabromobiphenyl		N.D.	5	-
Hexabromobiphenyl		N.D.	5	-
Heptabromobiphenyl		N.D.	5	-
Octabromobiphenyl		N.D.	5	-
Nonabromobiphenyl		N.D.	5	-
Decabromobiphenyl		N.D.	5	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Deca)		N.D.	-	-
Sum of Polybrominated Diphenylethers (PBDEs) (Mono to Nona)		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	-
Dibromodiphenyl ether		N.D.	5	-
Tribromodiphenyl ether		N.D.	5	-
Tetrabromodiphenyl ether		N.D.	5	-
Pentabromodiphenyl ether		N.D.	5	-
Hexabromodiphenyl ether		N.D.	5	-
Heptabromodiphenyl ether		N.D.	5	-
Octabromodiphenyl ether		N.D.	5	-
Nonabromodiphenyl ether		N.D.	5	-
Decabromodiphenyl ether		N.D.	5	-

Test Part Description :

As per page 3

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Test Report

No. LPCI/10228(B-AD)/08
CTS Ref. CTS/08/2410/Littelfuse

Date : 2008/05/26

Page: 3 of 4

Test Part Description :

Sample Description : Red Ink

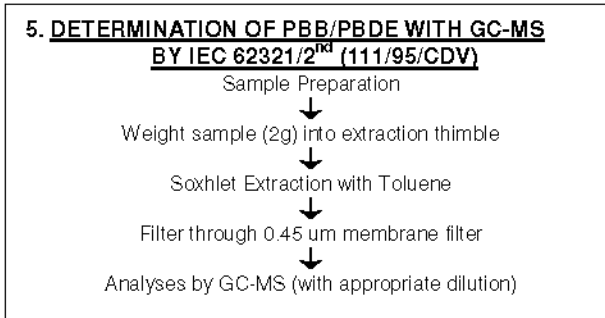
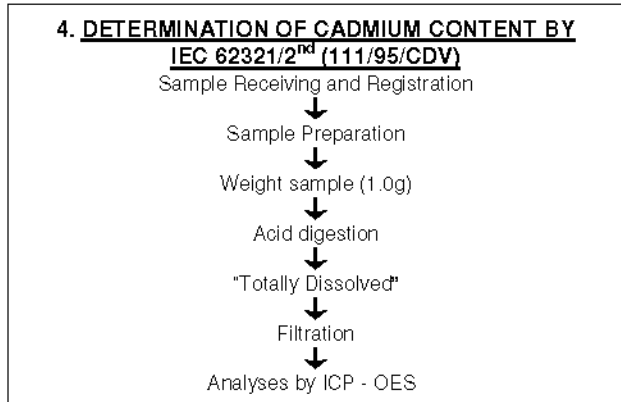
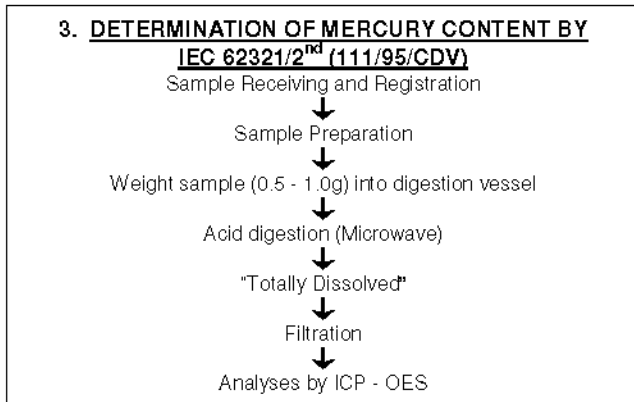
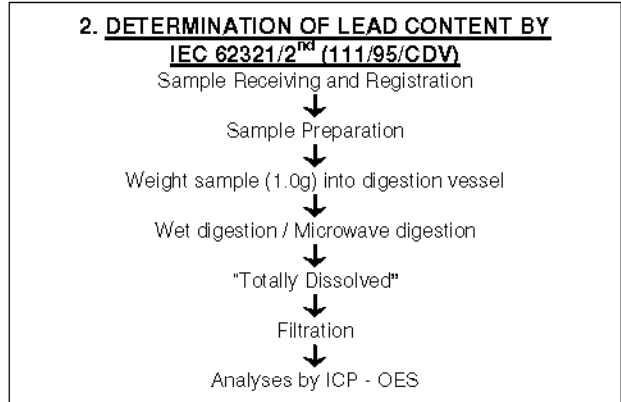
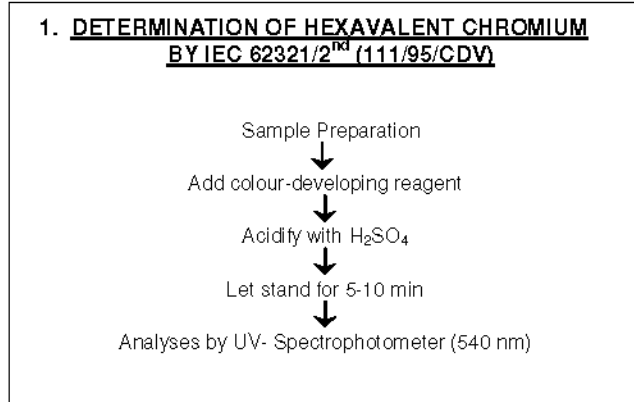


- Note :
- (a) mg/kg = ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) Testing based on original basis
 - (e) This report supersedes report no. LPCI/10228(B)/08

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