



Test Report No. F690501/LF-CTSAYAU10-04846R1

Issued Date: October 19, 2010 Page 1 of 13

To: **LG INNOTEK CO., LTD.**
Plant 2, 624,
Gupo-dong,
Gumi,
GYEONGBUK
KOREA

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

SGS File No. : AYAU10-04846R1
Product Name : CDA194 + Ag Plating
Item No./Part No. : N/A
Received Date : Oct. 14, 2010
Test Period : Oct. 15, 2010 to Oct. 19, 2010
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)
Comments : By the applicant's specific request, the sampling and testing was performed only for the part indicated in the photo without disassembly.
The sample description (or commodity) is changed from H765 to CDA194 + Ag Plating by client's request.
This Report supersedes the Report No. F690501/LF-CTSAYAU10-04846 dated October 13, 2010 issued by SGS Testing Korea Co., Ltd.

SGS Testing Korea Co. Ltd. / Gimhae Laboratory

Thomas Hwang / Gimhae Lab. Mgr

Sharpless Park
Annie Lim
Jonadan Lee /Testing Person

**Test Report No. F690501/LF-CTSAYAU10-04846R1**

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Sample No. : AYAU10-04846R1.001
Sample Description : CDA194 + Ag Plating
Item No./Part No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	1	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	13.0
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI) By boiling water extraction*	-	With reference to IEC 62321:2008	-	Negative
Antimony (Sb)	mg/kg	With reference to EPA 3052(1996), US EPA 6010B(1996), ICP	10	N.D.
Beryllium (Be)	mg/kg	With reference to EPA 3052(1996), US EPA 6010B(1996), ICP	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.

NOTE: (1) N.D. = Not detected.(<MDL)

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) ** = Qualitative analysis (No Unit)

(6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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**Test Report No. F690501/LF-CTSAYAU10-04846R1**

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Sample No. : AYAU10-04846R1.001
 Sample Description : CDA194 + Ag Plating
 Item No./Part No. : N/A

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.

Halogen Contents

Test Items	Unit	Test Method	MDL	Results
Bromine(Br)	mg/kg	EN 14582:2007 , IC	30	N.D.
Chlorine(Cl)	mg/kg	EN 14582:2007 , IC	30	N.D.
Fluorine(F)	mg/kg	EN 14582:2007 , IC	30	N.D.
Iodine(I)	mg/kg	EN 14582:2007 , IC	50	N.D.

Chlorinated Paraffin

Test Items	Unit	Test Method	MDL	Results
Alkanes, C10~13, Short Chain Chlorinated Paraffins	mg/kg	EPA 3540 C , GC/MS	100	N.D.

Asbestos

Test Items	Unit	Test Method	MDL	Results
Anthophyllite	-	With reference to EPA/600/R-93/116 and USP, PLM and FT-IR	-	Negative
Crocidolite	-	With reference to EPA/600/R-93/116 and USP, PLM and FT-IR	-	Negative
Amosite	-	With reference to EPA/600/R-93/116 and USP, PLM and FT-IR	-	Negative
Tremolite	-	With reference to EPA/600/R-93/116 and USP, PLM and FT-IR	-	Negative
Chrysotile	-	With reference to EPA/600/R-93/116 and USP, PLM and FT-IR	-	Negative
Actinolite	-	With reference to EPA/600/R-93/116 and USP, PLM and FT-IR	-	Negative

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 (6) * = Boiling-water-extraction:
 Negative = Absence of CrVI coating
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Test Report No. F690501/LF-CTSAYAU10-04846R1

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Sample No. : AYAU10-04846R1.001
Sample Description : CDA194 + Ag Plating
Item No./Part No. : N/A

Chlorinated Organic Substances

Test Items	Unit	Test Method	MDL	Results
Polychlorinated Biphenyls (PCBs)	mg/kg	USEPA 8082 , GC/MS	3	N.D.
Polychlorinated terphenyl	mg/kg	US EPA 8082 , GC/MS	3	N.D.
Polychlorinated Naphthalene (PCN)	mg/kg	EPA 8081 A , GC/MS	5	N.D.

Organotin Compounds

Test Items	Unit	Test Method	MDL	Results
Tributyltin (TBT)	mg/kg	DIN 38407-13 , GC/MS	0.03	N.D.
Triphenyltin (TPhT)	mg/kg	DIN 38407-13 , GC/MS	0.05	N.D.
Tributyltin oxide (TBTO)	mg/kg	DIN 38407-13 , GC/MS	0.05	N.D.

Ozone Depleting Substances

Test Items	Unit	Test Method	MDL	Results
Trichlorofluoromethane (CFC-11)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Dichlorodifluoromethane (CFC-12)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Dichlorotetrafluoroethane (CFC-114)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chloropentafluoroethane (CFC-115)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chlorotrifluoromethane (CFC-13)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Pentachlorofluoroethane (CFC-111)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Tetrachlorodifluoroethane (CFC-112)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Heptachlorofluoropropane (CFC-211)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hexachlorodifluoropropane (CFC-212)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Pentachlorotrifluoropropane (CFC-213)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Tetrachlorotetrafluoropropane (CFC-214)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Trichloropentafluoropropane (CFC-215)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Trichlorohexafluoropropane (CFC-216)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chloroheptafluoropropane (CFC-217)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.

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**Test Report No. F690501/LF-CTSAYAU10-04846R1**

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Sample No. : AYAU10-04846R1.001
Sample Description : CDA194 + Ag Plating
Item No./Part No. : N/A

Ozone Depleting Substances

Test Items	Unit	Test Method	MDL	Results
1,1,1,2-Tetrachloroethane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,1,1-Trichloroethane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,1,2,2-Tetrachloroethane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,1,2-Trichloroethane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,1-Dichloroethene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,1-Dichloroethane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,1-Dichloropropene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,2,3-Trichloropropane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,2-Dichloroethane	mg/g	US EPA 8260B , GC/MS	0.1	N.D.
1,2-Dichloropropane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,3-Dichloropropane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
2,2-Dichloropropane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Carbon tetrachloride	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chloroethane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chloroform	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chloromethane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
cis-1,2-Dichloroethene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
cis-1,3-Dichloropropene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hexachlorobutadiene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Methylene Chloride	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Tetrachloroethene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
trans-1,2-Dichloroethene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
trans-1,2-Dichloropropene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Trichloroethylene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Bromochlorodifluoromethane (Halon-1211)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Bromotrifluoromethane (Halon-1301)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Dibromotetrafluoroethane (Halon-2402)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Methyl bromide (Halon 1001)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.

NOTE: (1) N.D. = Not detected.(<MDL)

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(4) - = No regulation

(5) ** = Qualitative analysis (No Unit)

(6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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**Test Report No. F690501/LF-CTSAYAU10-04846R1**

Issued Date: October 19, 2010

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Sample No. : AYAU10-04846R1.001

Sample Description : CDA194 + Ag Plating

Item No./Part No. : N/A

Ozone Depleting Substances

Test Items	Unit	Test Method	MDL	Results
Bromochloromethane (Halon 1011)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Dibromodifloromethane (Halon-1202)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-21b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-22b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-31b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-121b4	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-122b3	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-123b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-124b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-131b3	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-132b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-123b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-141b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-142b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-151b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-221b6	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-222b5	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-223b4	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-224b3	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-225b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-226b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-231b5	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-232b4	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-233b3	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-234b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-235b5	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-241b4	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-241b3	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-243b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.

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Sample No. : AYAU10-04846R1.001
Sample Description : CDA194 + Ag Plating
Item No./Part No. : N/A

Ozone Depleting Substances

Test Items	Unit	Test Method	MDL	Results
HBFC-244b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-251b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-252b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-253b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-261b2	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-262b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
HBFC-271b1	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-21	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-22	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-31	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-121	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-122	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-123	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-124	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-131	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-132b	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-133a	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-141b	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-221	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-222	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-223	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-224	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-225ca	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-225cb	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-226	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-231	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-232	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-233	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-234	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.

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**Test Report No. F690501/LF-CTSAYAU10-04846R1**

Issued Date: October 19, 2010

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Sample No. : AYAU10-04846R1.001

Sample Description : CDA194 + Ag Plating

Item No./Part No. : N/A

Ozone Depleting Substances

Test Items	Unit	Test Method	MDL	Results
Hydrochlorofluorocarbon-235	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-241	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-242	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-243	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-244	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-251	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-252	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-253	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-261	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-262	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-271	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-23	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-41	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-43-10mee	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-125	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-134	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-134a	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-143	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-143a	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-152a	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-227ea	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-236fa	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-236ea	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-245ca	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-245fa	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrofluorocarbon-365mfc	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Freon 14	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Fluorocarbon 116	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Freon 218	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.

NOTE: (1) N.D. = Not detected.(<MDL)

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) ** = Qualitative analysis (No Unit)

(6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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**Test Report No. F690501/LF-CTSAYAU10-04846R1**

Issued Date: October 19, 2010

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Sample No. : AYAU10-04846R1.001

Sample Description : CDA194 + Ag Plating

Item No./Part No. : N/A

Ozone Depleting Substances

Test Items	Unit	Test Method	MDL	Results
Decafluorobutane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Freon 318	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Perfluoro-1-butane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Perfluoroisobutene	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,4-Dihydrooctafluorobutane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Nonafluoro-2-(trifluoromethyl)butane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Perfluoro-n-pentane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
2-Perfluoromethylpentane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Perfluorohexane	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.

Azo Dyes

Test Items	Unit	Test Method	MDL	Results
o-Toluidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
2,4-Xylidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
2,6-Xylidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
o-Anisidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
p-Chloroaniline	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
p-Cresidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
2,4,5-Trimethylaniline	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
4-Chloro-o-Toluidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
2,4-Toluenediamine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
2,4-Diaminoanisole	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
2-Naphthylamine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
2-Amino-4-Nitrotoluene	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
4-Aminodiphenyl	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
4-Aminoazobenzene	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
4,4'-Oxydianiline	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
Benzidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
4,4'-Diaminodiphenylmethane	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.

NOTE: (1) N.D. = Not detected. (<MDL)

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) ** = Qualitative analysis (No Unit)

(6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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**Test Report No. F690501/LF-CTSAYAU10-04846R1**

Issued Date: October 19, 2010

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Sample No. : AYAU10-04846R1.001
 Sample Description : CDA194 + Ag Plating
 Item No./Part No. : N/A

Azo Dyes

Test Items	Unit	Test Method	MDL	Results
o-Aminoazotoluene	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
3,3-Dimethyl-4,4'-diaminodiphenyl methane	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
3,3-Dimethylbenzidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
4,4'-Thioaniline	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
3,3'-Dichlorobenzidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
4,4'-Methylen-bis-(2-chloroaniline)	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.
3,3-Dimethoxybenzidine	mg/kg	LFGB 64 BVL B 82.02.2 , GC/MS &HPLC	5	N.D.

Other(s)

Test Items	Unit	Test Method	MDL	Results
PFOS(Perfluorooctane Sulfonates-Acid/Metal Salt/Amide)	mg/kg	US EPA 3540C/3550C, LC-MS/MS	1	N.D.
PFOA(Perfluorooctanoic acid)	mg/kg	US EPA 3540C/3550C, LC-MS/MS	1	N.D.
Benzotriazole (UV-320)	mg/kg	US EPA 3540C, GC/MS	5	N.D.

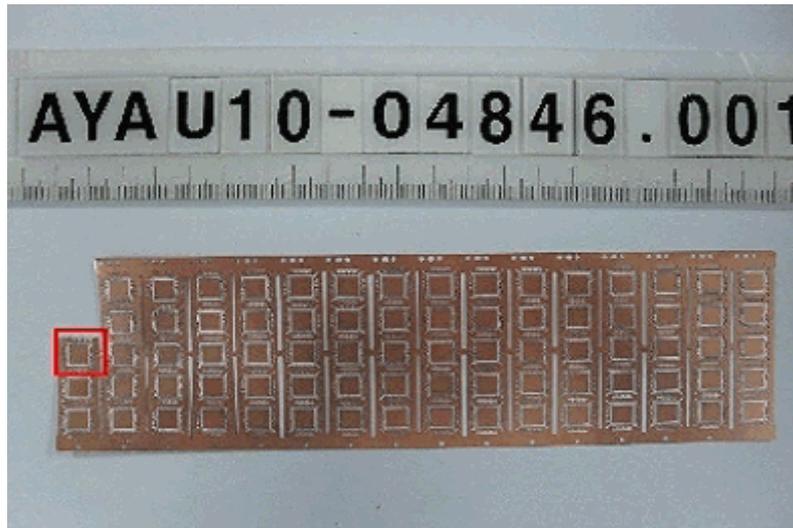
- NOTE: (1) N.D. = Not detected.(<MDL)
 (2) mg/kg = ppm
 (3) MDL = Method Detection Limit
 (4) - = No regulation
 (5) ** = Qualitative analysis (No Unit)
 (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

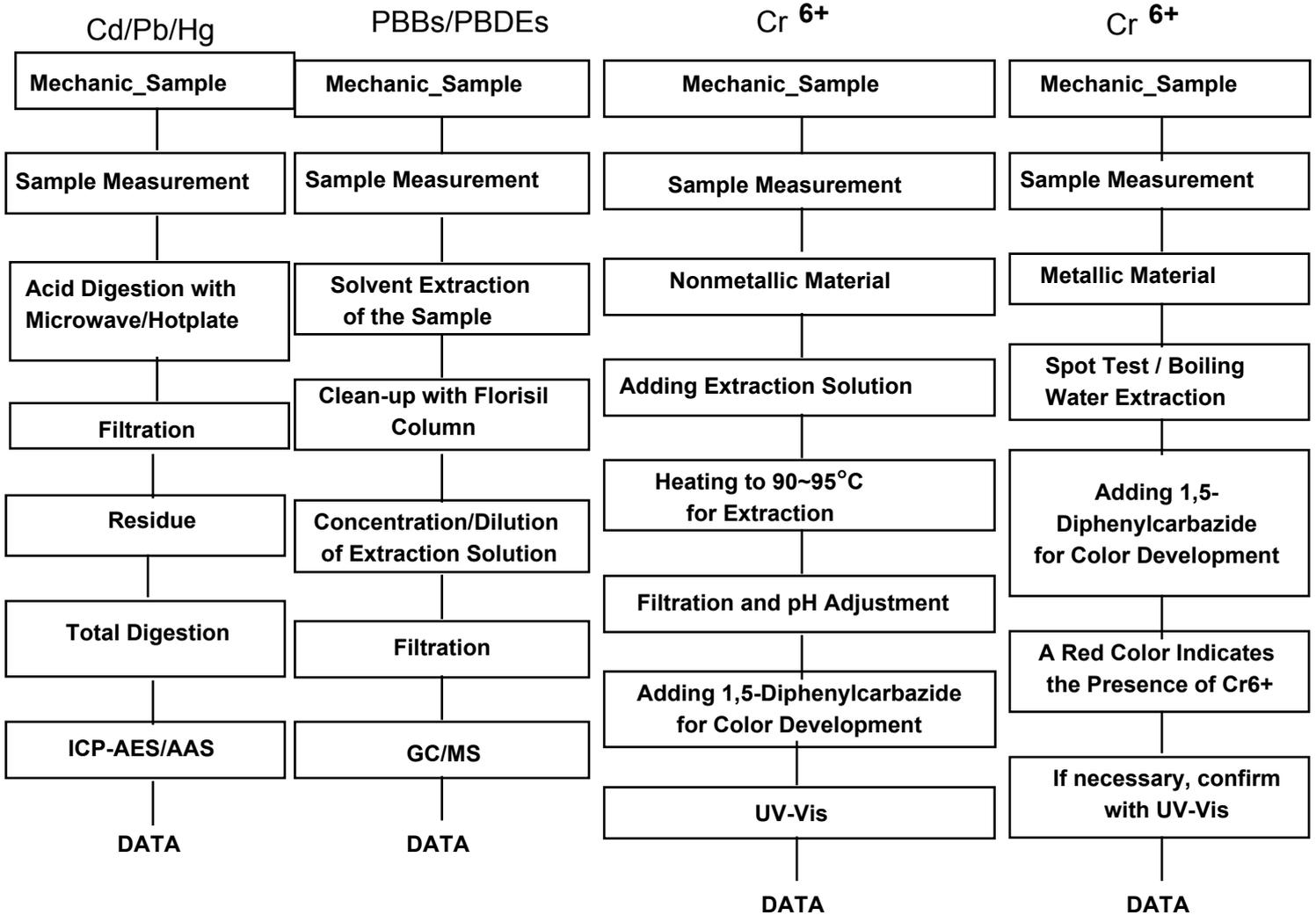
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Picture of Sample as Received:



- NOTE:**
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 - (6) * = Boiling-water-extraction:
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Testing Flow Chart for RoHS: Cd/Pb/Hg/Cr⁶⁺/PBBs&PBDEs Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Section Chief : Sharpless Park

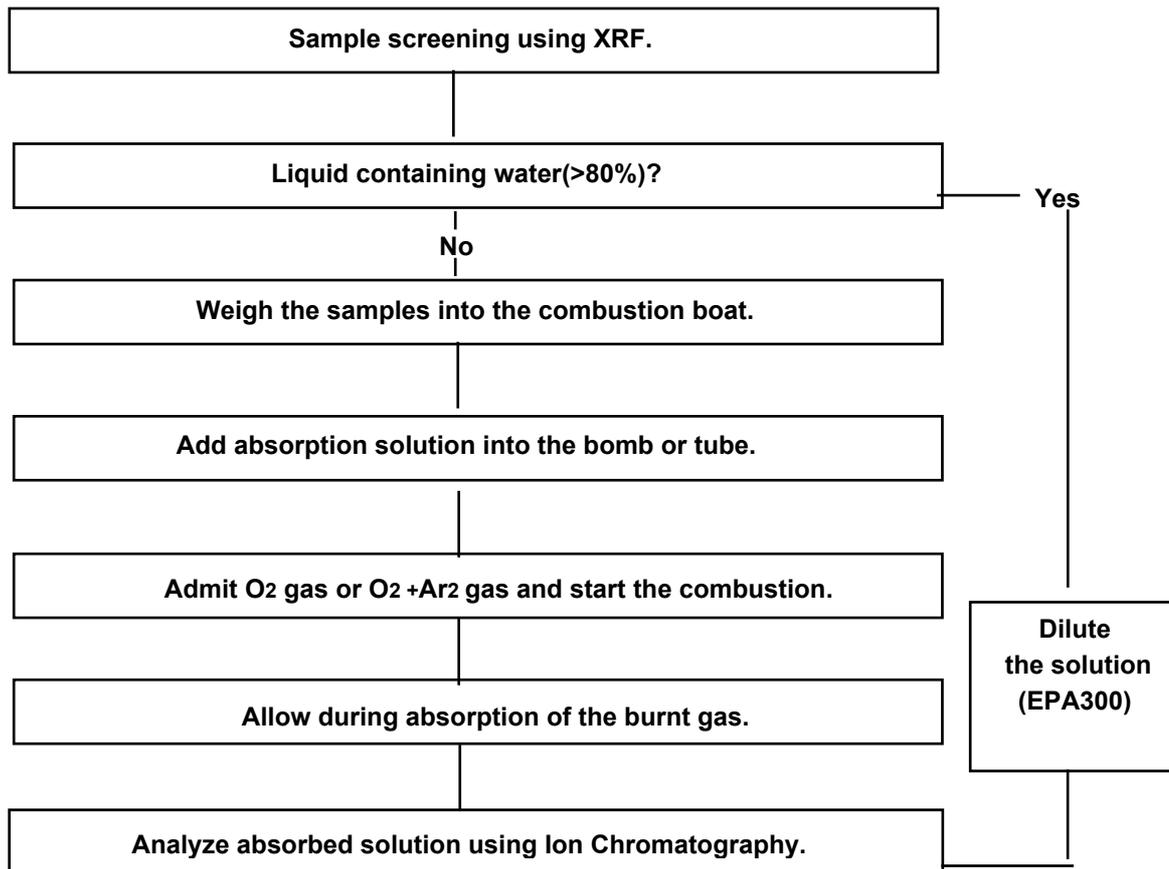
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Flow Chart for Halogen Test



*** End ***

- NOTE:
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 - (2) mg/kg = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.