SGS

Test Report No. F690501/LF-CTSAYA07-01022

Date: January 17, 2007

To: **KEC CORPORATION (SEOUL OFFICE)**
517-4
Gasan-dong
Geumcheon-gu, [QA]CS-G
SEOUL
Korea

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

Product Name	: TO-92
SGS File No.	: AYA07-01022
Received Date	: January 11, 2007
Test Performing Date	: January 12, 2007
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)
Buyer(s)	: sony flow chart

Pluto Kim
Monet Jeong
Jully Oh
Jerry Jung
/Testing Person

SGS Testing Korea Co. Ltd.

Jeff Jang

Jeff Jang / Chemical Lab Mgr

Sample No. : AYA07-01022.001

Sample Description : TO-92

Style/Item No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996), ICP	0.5	N.D.
Lead (Pb)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996), ICP	5	N.D.
Mercury (Hg)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996), ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	US EPA 3060A(1996), US EPA 7196A(1992), UV	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Monobromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.

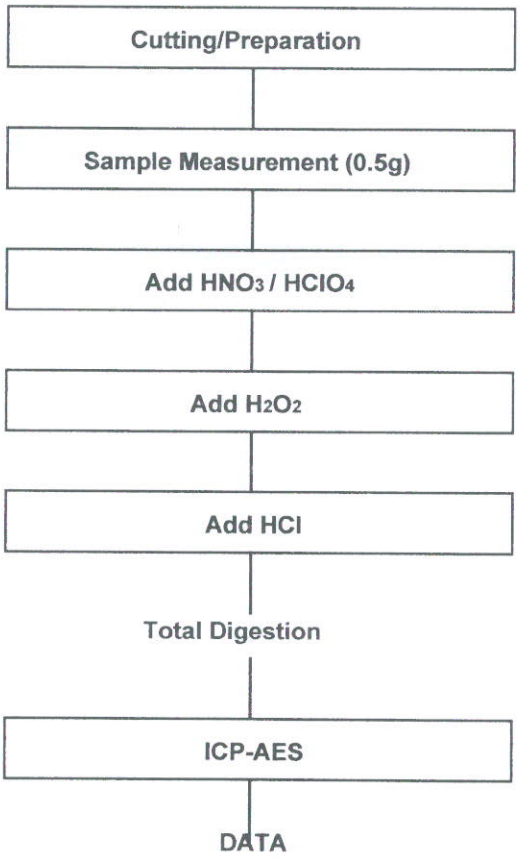
NOTE: (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) - = No regulation
(5) ** = Qualitative analysis (No Unit)
(6) Negative = Undetectable / Positive = Detectable

Picture of Sample as Received:

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

Flow Chart of Digestion

(EPA 3050B for Cd, Pb)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator Lauren Kim

Section Chief Jeff Jang

*** End ***

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

SGS

Test Report No. F690501/LF-CTSAYA07-02882

Date: February 05, 2007 Page 1 of 3

To: **KEC Corporation.**
517-4
Gasan-dong
Geumcheon-gu [QA]CS-G
SEOUL
Korea

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

Product Name	:	SOT-23
SGS File No.	:	AYA07-02882
Received Date	:	January 30, 2007
Test Performing Date	:	January 31, 2007
Test Performed	:	SGS Testing Korea tested the sample(s) selected by applicant with following result.
Test Requested	:	In accordance with the RoHS Directive 2002/95/EC, and its amendment directives
Test Method		With reference to IEC 62321, Ed. 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products (1) Determination of Cadmium by ICP/ AAS (2) Determination of Lead by ICP/ AAS (3) Determination of Mercury by ICP/ CV-AAS (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method (5) Determination of PBB and PBDE by GC/MS
Test Result(s)	:	Please refer to next page(s).
Conclusion	:	Based on the performed tests on submitted samples, the result **complies with** the RoHS Directive 2002/95/EC and its subsequent amendments.

SGS Testing Korea Co., Ltd.

Pluto Kim
Monet Jeong
Jully Oh
Jerry Jung
/Testing Person

Jeff Jang

Jeff Jang / Technical Mgr

Sample No. : AYA07-02886.001

Sample Description : SOT-23

Item / Part No. : N/A

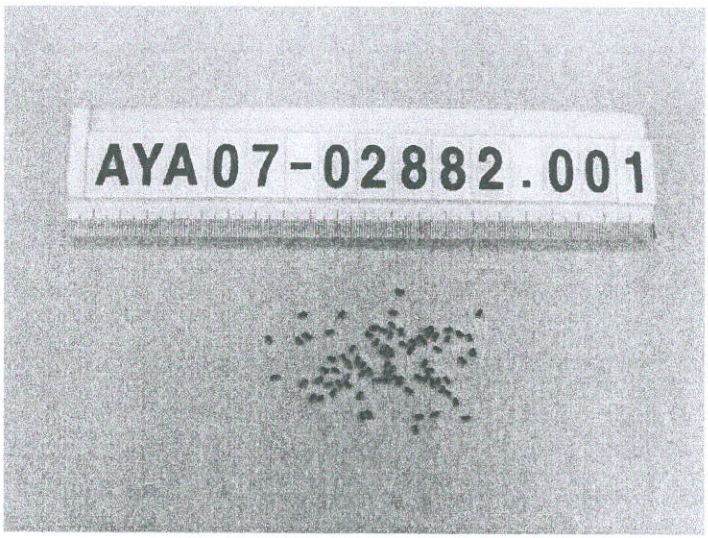
Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL	RoHS Limit
Cadmium(Cd)	(1)	N. D.	0.5	100
Lead (Pb)	(2)	N. D.	5	1000
Mercury (Hg)	(3)	N. D.	2	1000
Hexavalent Chromium (CrVI)	(4)	N. D.	1	1000
Hexavalent Chromium (CrVI) by Spot test / boiling water extraction	(4)	---	See Note 5	#
Sum of PBBs		N. D.	-	1000
Monobromobiphenyl		N. D.	5	-
Dibromobiphenyl		N. D.	5	-
Tribromobiphenyl		N. D.	5	-
Tetrabromobiphenyl		N. D.	5	-
Hexabromobiphenyl		N. D.	5	-
Pentabromobiphenyl		N. D.	5	-
Heptabromobiphenyl		N. D.	5	-
Octabromobiphenyl		N. D.	5	-
Nonabromobiphenyl		N. D.	5	-
Decabromobiphenyl		N. D.	5	-
Sum of PBDEs (Note 4)	(5)	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	-
Sum of PBDEs (Mono to Deca)		N. D.	-	-

Note.
1. mg/kg = ppm
2. MDL = Method Detection Limit
3. N. D. = Not Detected
4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
5. Spot-test:
   Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
   (The tested sample should be further verified by boiling-water extraction method if the spot test result cannot be confirmed.)
   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 cm^2 sample surface area.
6. # = Positive indicates the presence of Hexavalent Chromium on the tested areas and result be regarded as conflict with RoHS requirement.
   Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.
7. ??= Not Regulated
8. ?--?= Not Conducted

Picture of Sample as Received :

Sample Color : White



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