

Test Report

No. CANML1510281001

Date: 26 Jun 2015

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CENTRA SCIENCE (HOLDINGS) LTD.

NO.7,NORTH ROAD,4TH VILLAGE, BAI SHA ,HUMEN TOWN DONG GUAN CITY, GUANG DONG, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Varistor

SGS Job No. : SZIN1506005675PC - SZ

Date of Sample Received : 17 Jun 2015

Testing Period : 17 Jun 2015 - 23 Jun 2015

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Merry Lv
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-102810.001	Silver-grey metal wire(semi-product)
SN2	CAN15-102810.002	Blue material w/ black printing
SN3	CAN15-102810.003	Gray sheet w/ silvery surface

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Elementary Analysis & Flame Retardants & Phthalates

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 (5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.
 (6)With reference to EN 14372:2004, determination of phthalates by GC-MS.

Test Item(s)	Unit	MDL	001	002	003
Cadmium (Cd)	mg/kg	2		ND	ND
Lead (Pb)	mg/kg	2		ND	20
Mercury (Hg)	mg/kg	2		ND	ND
Hexavalent Chromium (CrVI)	mg/kg	2		ND	ND
Sum of PBBs	mg/kg	-		ND	ND
Monobromobiphenyl	mg/kg	5		ND	ND
Dibromobiphenyl	mg/kg	5		ND	ND
Tribromobiphenyl	mg/kg	5		ND	ND
Tetrabromobiphenyl	mg/kg	5		ND	ND
Pentabromobiphenyl	mg/kg	5		ND	ND
Hexabromobiphenyl	mg/kg	5		ND	ND
Heptabromobiphenyl	mg/kg	5		ND	ND
Octabromobiphenyl	mg/kg	5		ND	ND
Nonabromobiphenyl	mg/kg	5		ND	ND



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Test Item(s)	Unit	MDL	001	002	003
Decabromobiphenyl	mg/kg	5		ND	ND
Sum of PBDEs	mg/kg	-		ND	ND
Monobromodiphenyl ether	mg/kg	5		ND	ND
Dibromodiphenyl ether	mg/kg	5		ND	ND
Tribromodiphenyl ether	mg/kg	5		ND	ND
Tetrabromodiphenyl ether	mg/kg	5		ND	ND
Pentabromodiphenyl ether	mg/kg	5		ND	ND
Hexabromodiphenyl ether	mg/kg	5		ND	ND
Heptabromodiphenyl ether	mg/kg	5		ND	ND
Octabromodiphenyl ether	mg/kg	5		ND	ND
Nonabromodiphenyl ether	mg/kg	5		ND	ND
Decabromodiphenyl ether	mg/kg	5		ND	ND
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND
Butyl benzyl phthalate (BBP)	mg/kg	30	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	30	ND	ND	ND
Diisobutyl Phthalates (DIBP)	mg/kg	30	ND	ND	ND

Elementary Analysis & Flame Retardants

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.
 (5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Unit	MDL	001
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	◇	Negative
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND
Dibromodiphenyl ether	mg/kg	5	ND
Tribromodiphenyl ether	mg/kg	5	ND
Tetrabromodiphenyl ether	mg/kg	5	ND
Pentabromodiphenyl ether	mg/kg	5	ND
Hexabromodiphenyl ether	mg/kg	5	ND
Heptabromodiphenyl ether	mg/kg	5	ND
Octabromodiphenyl ether	mg/kg	5	ND
Nonabromodiphenyl ether	mg/kg	5	ND
Decabromodiphenyl ether	mg/kg	5	ND

Notes :

(1)◇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 is Negative or 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 cm² sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.



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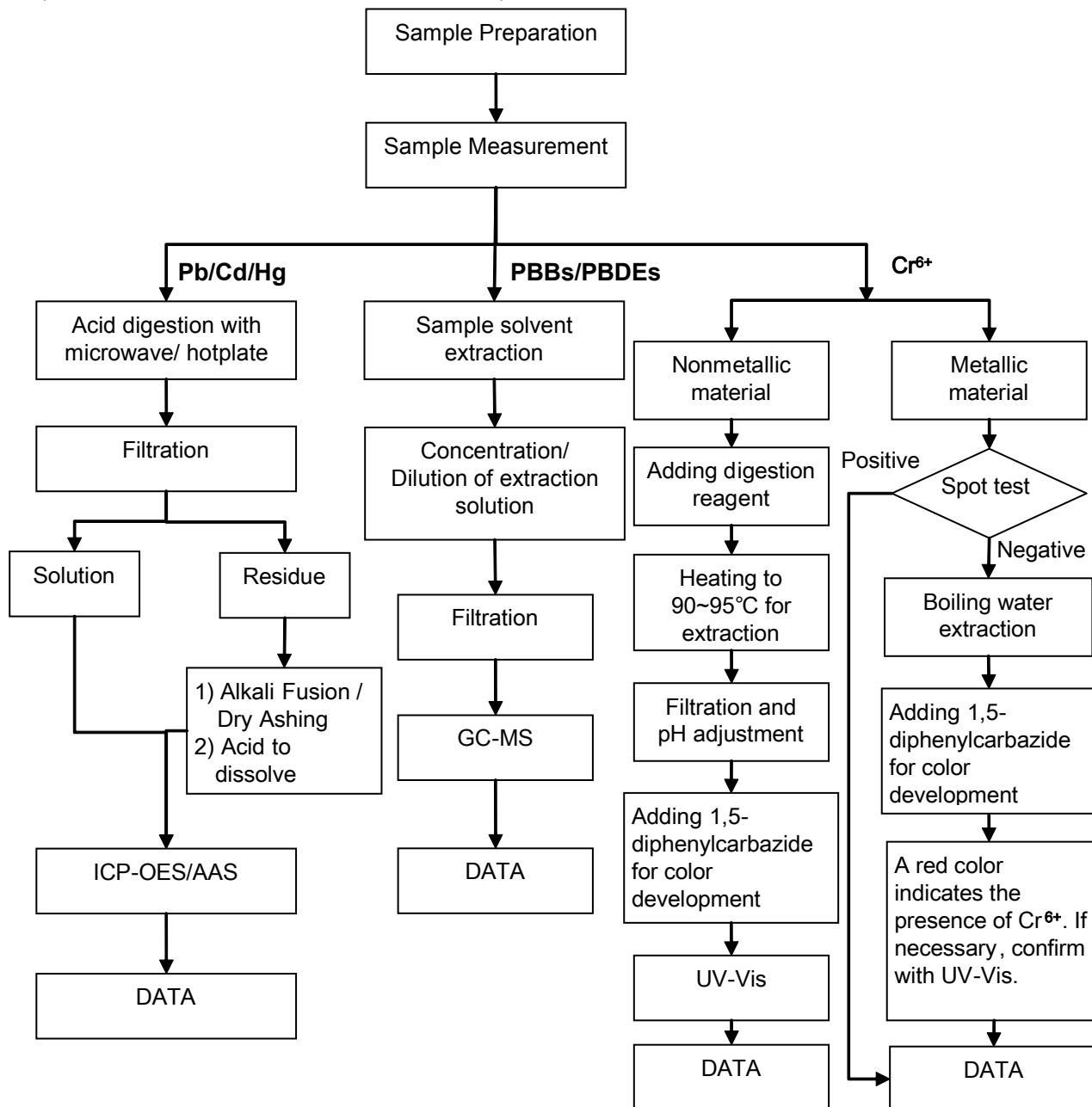
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ATTACHMENTS

RoHS Testing Flow Chart

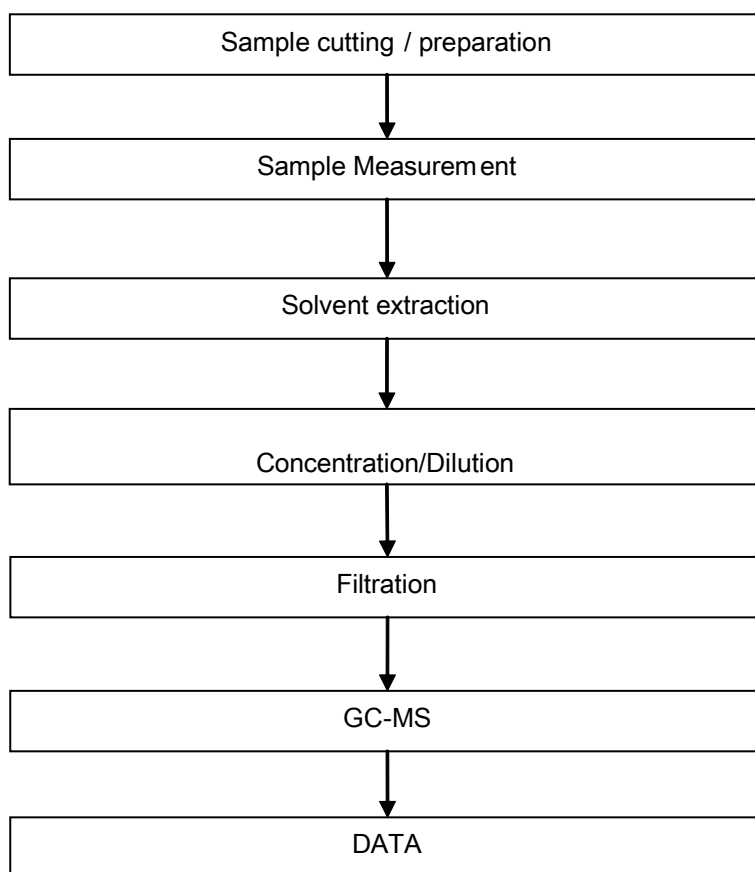
- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu



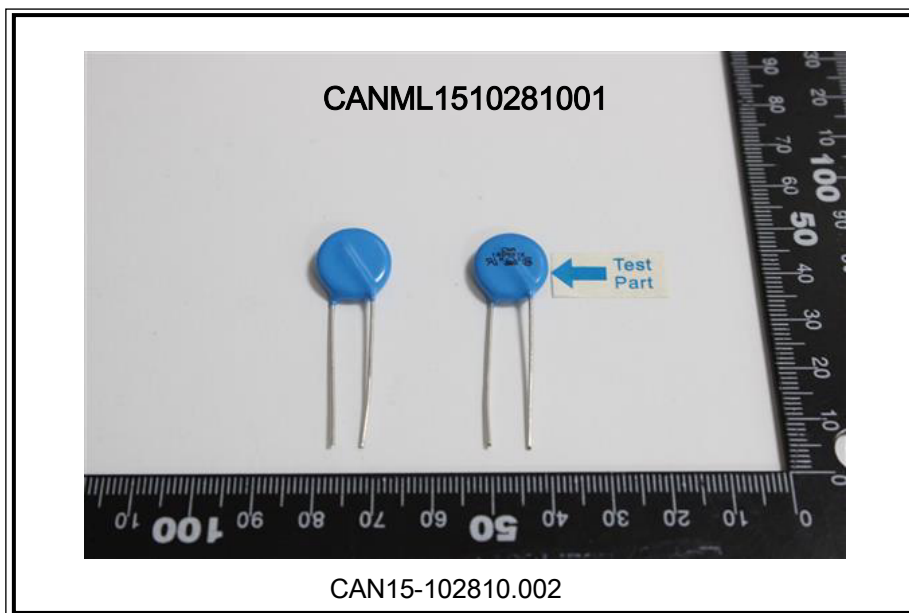
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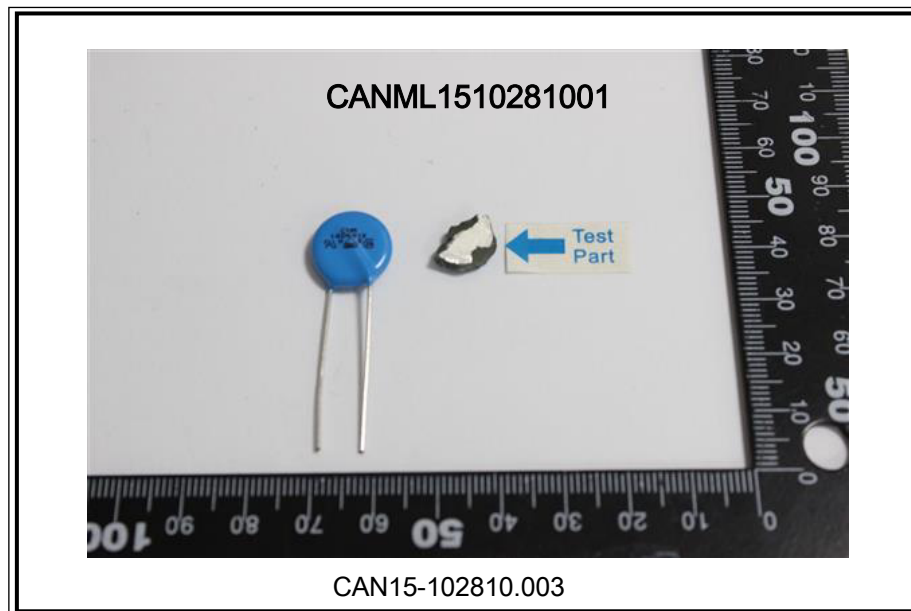
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Sample photo:





SGS authenticate the photo on original report only

*** End of Report ***