



**RoHS Test Report**      No. 201307709R      Date: Jul. 10, 2013      Page1 of 9

APPLICANT : Shenzhen Smart Team Technology Ltd  
Xutai Industrial Zone, Long Wo Road, Long Tian Village, Keng Zi  
Town, Longgang District, Shenzhen, Guangdong, China

REPORT ON THE SUBMITTED SAMPLE SAID TO BE

SAMPLE NAME : Solar Charger

TYPE /MODEL : PSC2013

MANUFACTURER : Shenzhen Smart Team Technology Ltd

TEST REPORT NUMBER : 201307709R

SAMPLE RECEIVED DATE : Jul. 06, 2013

TESTING PERIOD : Jul. 06, 2013 to Jul. 10, 2013

\*\*\*\*\*

TEST REQUESTED: TO COMBINE THE TEST RESULT FOR THE SUBMITTED SAMPLE

\*\*\*\*\*

CONCLUSION:

<u>TESTED SAMPES</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLE	EUROPEAN DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES (RoHS Directive)	PASS

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

Signed for and on behalf of ANBOTEK COMPLIANCE LABORATORY LIMITED

Written by Adeline Fan

Inspected by Terry Tian

Approved Jeff Zhu  
Jeff Zhu / Manager

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**Testing method:**

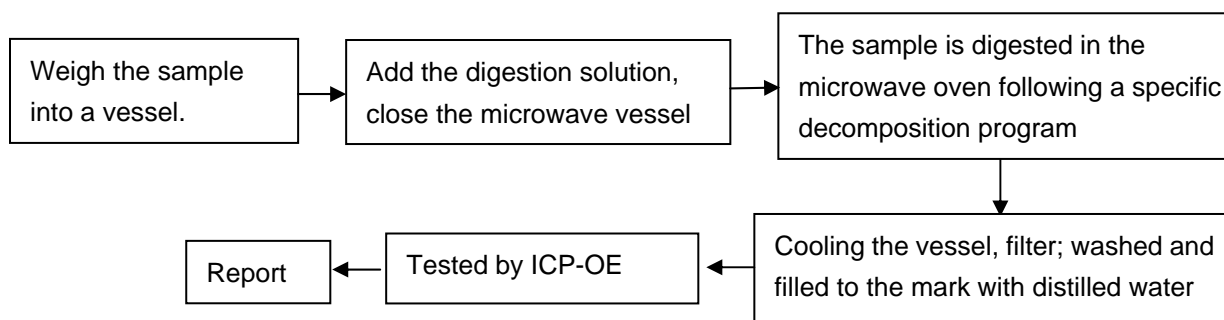
Testing Item	Measuring method	Instrument	Report Limit
Cadmium (Cd)	EN 1122B	ICP-AES	2 mg/kg
Lead (Pb)	EPA 3050B	ICP-AES	2 mg/kg
Mercury (Hg)	EPA 3052	ICP-AES	2 mg/kg
Chromium(VI) [Cr(VI)]	EPA 3060A	UV-VIS	2 mg/kg
Polybrominated Biphenyl (PBB)	83/264/EEC	GC/MS	5 mg/kg
Polybrominated Diphenylether (PBDE)	83/264/EEC	GC/MS	5 mg/kg

**Method detection Limits:**

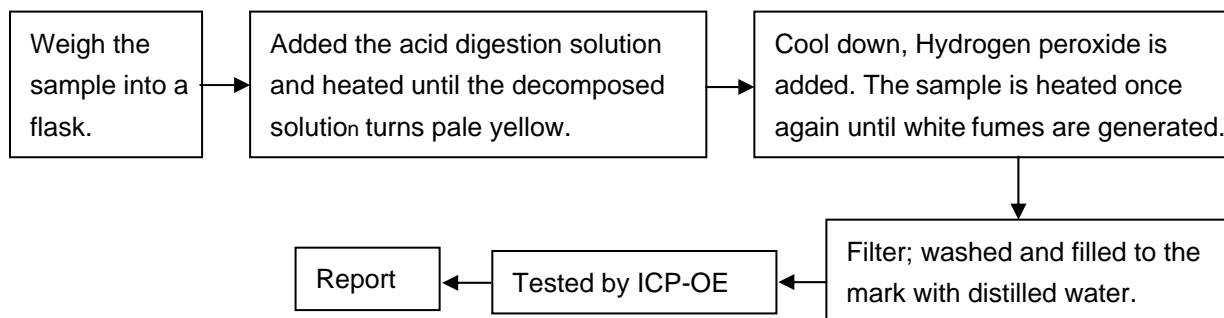
Test Item	Unit	Acceptable Limit
Cadmium (Cd)	ppm	100
Lead (Pb)	ppm	1000
Mercury (Hg)	ppm	1000
Chromium(VI) [Cr(VI)]	ppm	1000
Polybrominated Biphenyl (PBB)	ppm	1000
Polybrominated Diphenylether (PBDE)	ppm	1000

**Test flow:**

## 1. To Determine lead Content:



## 2. To Determine Cadmium Content:

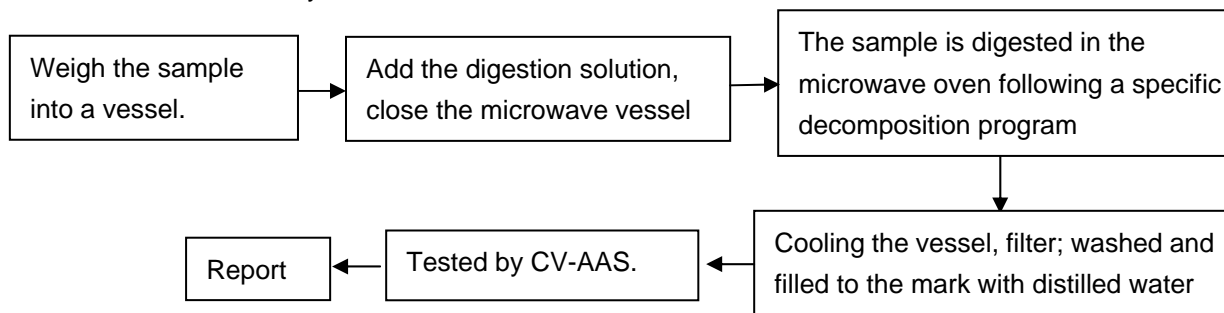


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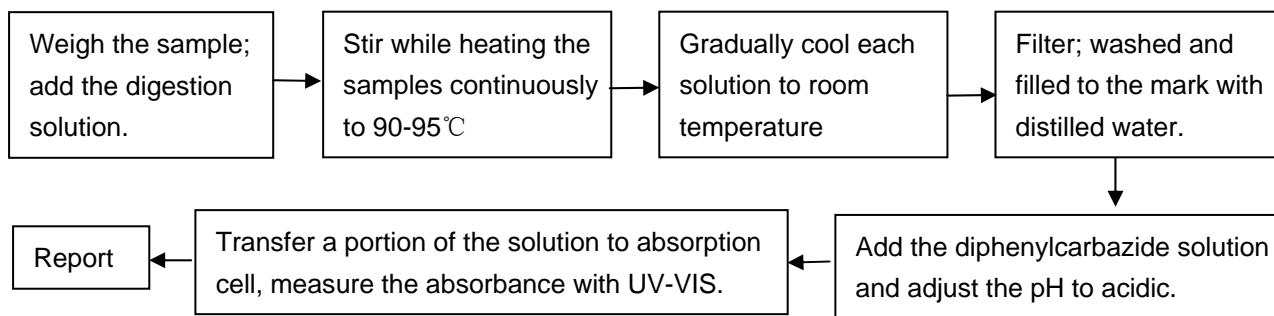
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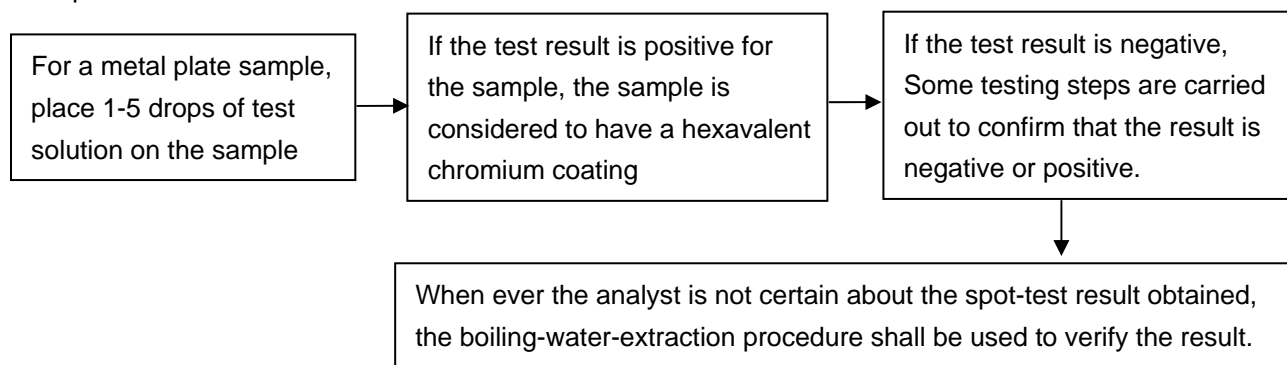
3. To Determine Mercury Content:



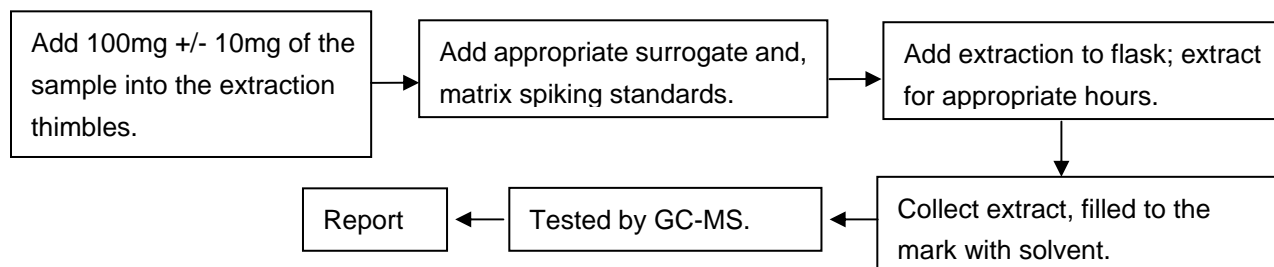
4. To Determine Hexavalent Chromium Content:



5. To Determine Hexavalent Chromium Content in metals:  
spot-test:



6. To Determine PBBs / PBDEs Content:



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## Test Results

Item	Unit	MDL	No. 1	No. 2	No. 3	No. 4	No. 5-1
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	5	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	Negative	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.D.

Item	Unit	MDL	No. 5-2	No. 5-3	No. 6	No. 7	No. 8-1
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	Negative	Negative	N.D.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.A.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.D.	N.D.	N.D.

Item	Unit	MDL	No. 8-2	No. 9	No. 10	No. 11-1	No. 11-2
Lead Content (Pb)	ppm	2	N.D.	354	339	230910 <sup>12</sup>	70
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	N.D.	N.D.	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.A.

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Item	Unit	MDL	No. <u>12-1</u>	No. <u>12-2</u>	No. <u>13</u>	No. <u>14</u>	No. <u>15</u>
Lead Content (Pb)	ppm	2	5	N.D.	N.D.	13	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	Negative	N.D.	N.D.	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.D.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.D.	N.D.	N.A.

Item	Unit	MDL	No. <u>16</u>	No. <u>17</u>	No. <u>18</u>	No. <u>19-1</u>	No. <u>19-2</u>
Lead Content (Pb)	ppm	2	3537 <sup>&lt;1&gt;</sup>	N.D.	N.D.	10	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	N.D.	Negative	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.D.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.	N.A.	N.D.

Item	Unit	MDL	No. <u>20</u>	No. <u>21</u>			
Lead Content (Pb)	ppm	2	N.D.	N.D.			
Cadmium (Cd)	ppm	2	N.D.	N.D.			
Mercury Content(Hg)	ppm	2	N.D.	N.D.			
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.			
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.			
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.			

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NOTE: (1) ppm=mg/kg.  
(2) N.D.= NOT DETECTED (<MDL)  
(3) N.A.= NOT APPLICABLE  
(4) Negative = Absence of CrVI coating

DISCLAIM: Anbotek take no responsibility for any mistakes caused by inaccurate and /or invalid information submitted by the applicant.

Remark<1>: According to the declaration from the client, Lead (Pb) in specimen 11-1 & 16 was exempted by EU RoHS Directive 2011/65/EU based on: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

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**SAMPLE APPEARANCE DESCRIPTION**

Item No.	Part Name	Description	Test Report No.
1	POLYCARBONATE	Transparent polycarbonate	SGS KA/2011/C1964
2	POLYMER LI-ION BATTERY	Battery	SGS CANEC1210777209
3	TRIVALENT NICKEL	Silver-grey plated metal screw	SGS CANEC1302556706
4	CPFCP(SY)	Copper clad brown laminate w/ green printing	SGS CANEC1206972101
5	USB	---	---
5-1	PBT(WHITE PLASTIC CORE)	Light blue plastic	SGS CANEC1213118512
5-2	SPCC	Silver-grey metal	SGS CANEC1213118509
5-3	FILM	Silvery and silver-grey film	SGS CANEC1213118515
6	SOT23, SOT23-3L	Mixed all	SGS CE/2012/14588
7	IC	Black body w/ silvery metal pin(mixed)	SGS CANEC1209557201
8	KEYPAD LIGHT	---	SGS CE/2012/70633A
8-1	CHIP	Transparent glue and chip	SGS CE/2012/70633A
8-2	BODY	Body(excluding the transparent glue and chip)	SGS CE/2012/70633A
9	GENERAL PURPOSE CHIP RESISTORS	General purpose chip resistors(black/white/silver general purpose chip resistors)	SGS KA/2012/C0588
10	GENERAL PURPOSE CHIP RESISTORS	General purpose chip resistors(black/white/silver general purpose chip resistors)	SGS KA/2012/C0589
11	SMD GLASS DIODE	---	SGS CANEC1215784102
11-1	BODY	Orange body(finished product)	SGS CANEC1215784102
11-2	METAL	Silvery metal(semi-product)	SGS CANEC1215784102
12	SOP28L	---	SGS SHAEC1206020003
12-1	BODY	Black body	SGS SHAEC1206020003
12-2	METAL	Silvery metal	SGS SHAEC1206020003

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Item No.	Part Name	Description	Test Report No.
13	SOT-23	Black body w/ white printing & silvery metal pin	SGS CANEC1306648301
14	PBT	Black plastic grains	SGS GZ1009104985/CHEM
15	SOT-23-5L(12R)	Black solid with silvery pin(mix all)	SGS SHAEC1303258509
16	CHIP RESISTANCE	Chip resistance	SGS CANEC1302632204
17	SMD INDUCTOR	Gray metal particle with silvery metal edge & black printing(mixed)	SGS CANEC1206392002
18	TAJ SERIES SOP8(8R)-PINLEAD	Mixed all papts	SGS CE/2011/C5458
19	PART; SOP8(8R)-PACKAGE PART	---	SGS SHAEC1303258503
19-1	PIN	Silvery metal	SGS SHAEC1303258503
19-2	BODY	Black solid with silvery pin (mix all)	SGS SHAEC1303258503
20	SILICONE RUBBER	White silicone rubber	AOV A001R120920066002-1
21	FR-4 ENTEK COATING(OSP)	PCB (mixed)	CTI RLSZC000481700013-A

\*\*\*\*\* End of Report \*\*\*\*\*

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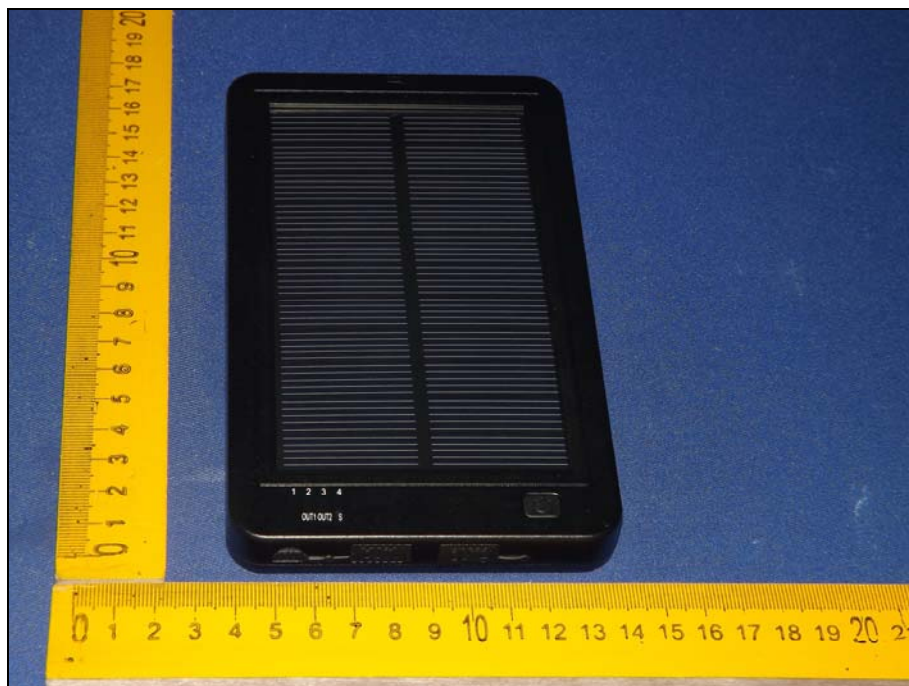
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**APPENDIX A**

**Photograph of Sample**



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