

APPLICANT : Smart Zone Technology Limited
Flat 697, 6/F., Winner Mansion, 697 Nathan Road, Mongkok,
Kowloon, Hong Kong

REPORT ON THE SUBMITTED SAMPLE SAID TO BE

SAMPLE NAME : SZ-MSC2009-1 MINI SOLAR CHARGER
TYPE /MODEL : SZ-MSC2009-1 MINI SOLAR CHARGER
MANUFACTURER : Smart Zone Technology Limited
TEST REPORT NUMBER : 201009692R
SAMPLE RECEIVED DATE : Sept. 13, 2010
TESTING PERIOD : Sept. 14, 2010 to Sept. 20, 2010

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 2002/95/EC AND AMENDMENT 2005/618/EC ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES (RoHS Directive)	PASS

REMARK : CHEMICAL CONFIRMATION TESTS WERE CONDUCTED TO VERIFY THE
INCONCLUSIVE RESULTS, CHROMIUM (VI) (Cr6+), POLYBROMINATED
BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs)
CONTENT.

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

Signed for and on behalf of ANBOTEK COMPLIANCE LABORATORY LIMITED

Written by July Zhu

Inspected by Sam Q.

Approved Daniel

Daniel Zhu/ Chief Executives

Testing method:

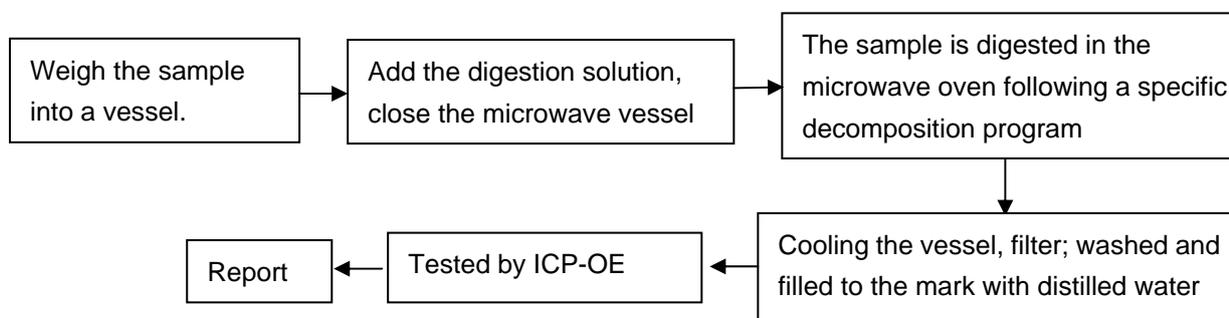
Testing Item	Measuring method	Instrument	Report Limit
Cadmium (Cd)	EN 1122B	ICP-AES	2 mg/kg
Lead (Pb)	EPA 3050B	ICP-AES	2 mg/kg
Mercury (Hg)	EPA 3052	ICP-AES	2 mg/kg
Chromium(VI) [Cr(VI)]	EPA 3060A	UV-VIS	2 mg/kg
Polybrominated Biphenyl (PBB)	83/264/EEC	GC/MS	5 mg/kg
Polybrominated Diphenylether (PBDE)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

Method detection Limits:

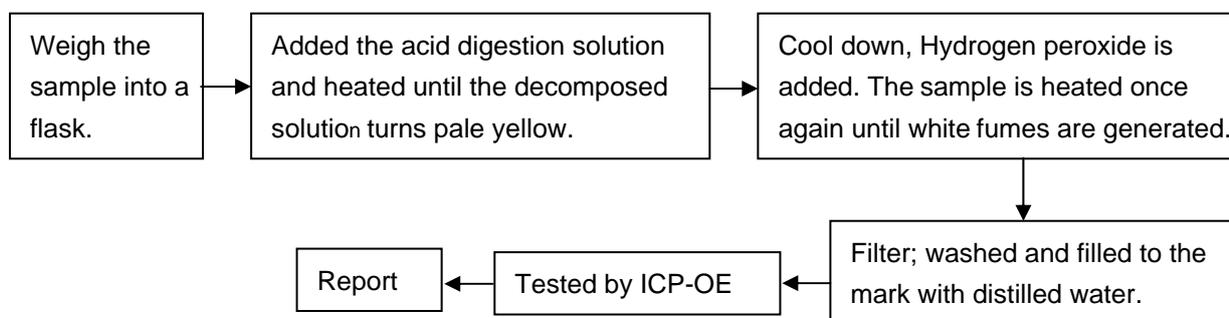
Test Item	Unit	Acceptable Limit
Cadmium (Cd)	ppm	100
Lead (Pb)	ppm	1000
Mercury (Hg)	ppm	1000
Chromium(VI) [Cr(VI)]	ppm	1000
Polybrominated Biphenyl (PBB)	ppm	1000
Polybrominated Diphenylether (PBDE)	ppm	1000

Test flow:

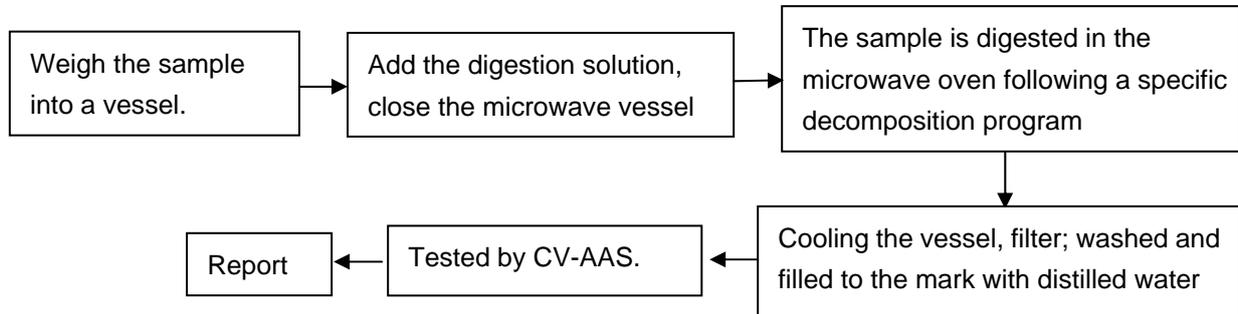
1. To Determine lead Content:



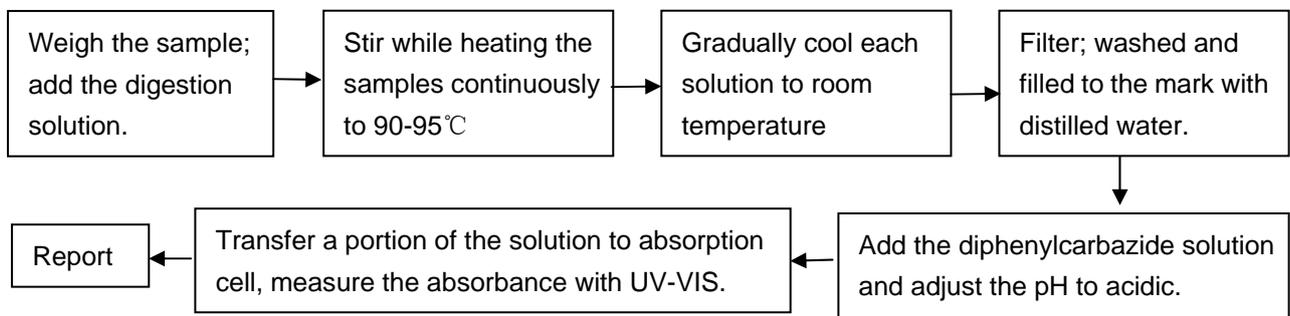
2. To Determine Cadmium Content:



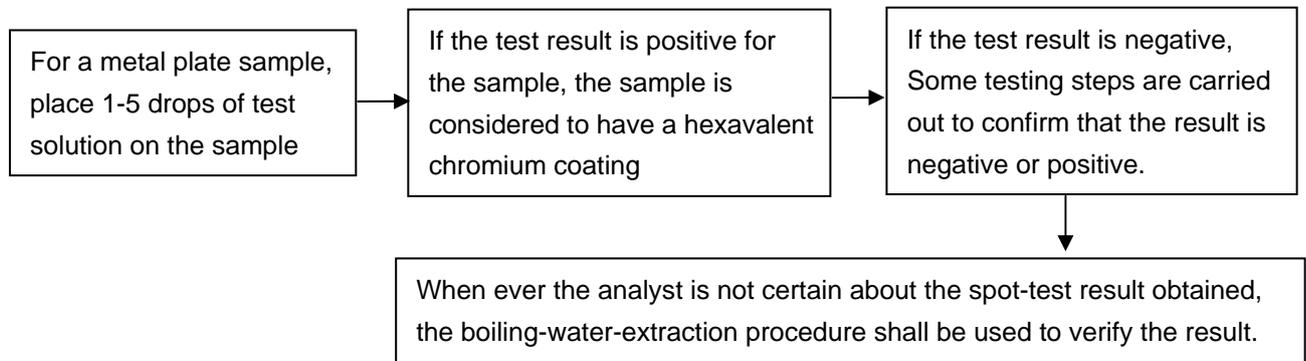
3. To Determine Mercury Content:



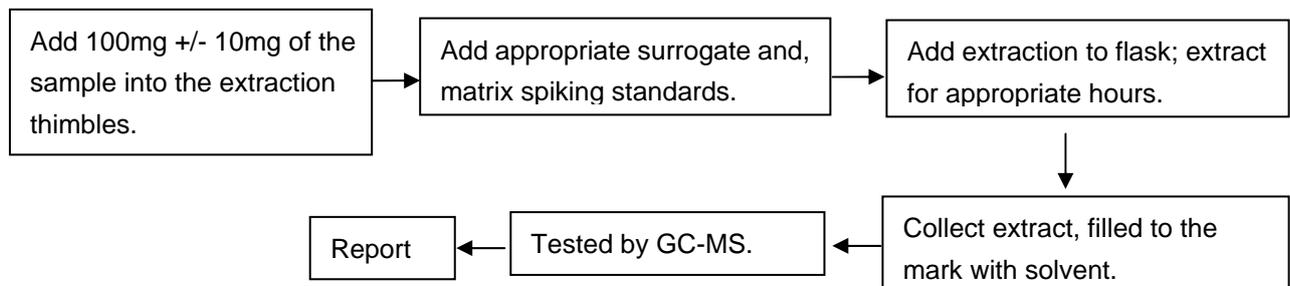
4. To Determine Hexavalent Chromium Content:



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



6. To Determine PBBs / PBDEs Content:



Test Results

Item	Unit	MDL	<u>No.</u> <u>1</u>	<u>No.</u> <u>2</u>	<u>No.</u> <u>3-1</u>	<u>No.</u> <u>3-2</u>	<u>No.</u> <u>3-3</u>
Lead Content (Pb)	ppm	2	61.2	103	N.D.	N.D.	34
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	<u>No.</u> <u>3-4</u>	<u>No.</u> <u>3-5</u>	<u>No.</u> <u>3-6</u>	<u>No.</u> <u>3-7</u>	<u>No.</u> <u>4</u>
Lead Content (Pb)	ppm	2	41	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	Negative	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.A.	N.A.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.A.	N.D.	N.D.

Item	Unit	MDL	<u>No.</u> <u>5</u>	<u>No.</u> <u>6-1</u>	<u>No.</u> <u>6-2</u>	<u>No.</u> <u>7-1</u>	<u>No.</u> <u>7-2</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	10.5	N.D.	23
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.	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.A.

Item	Unit	MDL	<u>No.</u> 8	<u>No.</u> 9-1	<u>No.</u> 9-2	<u>No.</u> 10-1	<u>No.</u> 10-2
Lead Content (Pb)	ppm	2	32	N.D.	12	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	N.D.	N.D.	Negative	N.D.	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.A.

Item	Unit	MDL	<u>No.</u> 11	<u>No.</u> 12	<u>No.</u> 13	<u>No.</u> 14	<u>No.</u> 15
Lead Content (Pb)	ppm	2	18	8	N.D.	15	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	8	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	13.3	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	Negative	Negative	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.A.	N.D.

Item	Unit	MDL	<u>No.</u> 16	<u>No.</u> 17-1	<u>No.</u> 17-2	<u>No.</u> 17-3	<u>No.</u> 18-1
Lead Content (Pb)	ppm	2	11	N.D.	N.D.	13	36
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	Negative	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.A.	N.D.

Item	Unit	MDL	<u>No.</u> <u>18-2</u>	<u>No.</u> <u>18-3</u>	<u>No.</u> <u>19-1</u>	<u>No.</u> <u>19-2</u>	<u>No.</u> <u>19-3</u>
Lead Content (Pb)	ppm	2	14	19	25	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	Negative	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.A.	N.A.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.A.	N.D.	N.D.

Item	Unit	MDL	<u>No.</u> <u>19-4</u>	<u>No.</u> <u>19-5</u>	<u>No.</u> <u>19-6</u>	<u>No.</u> <u>20</u>	<u>No.</u> <u>21</u>
Lead Content (Pb)	ppm	2	N.D.	9	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	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	<u>No.</u> <u>22</u>	<u>No.</u> <u>23</u>	<u>No.</u> <u>24</u>	<u>No.</u> <u>25</u>	<u>No.</u> <u>26</u>
Lead Content (Pb)	ppm	2	35	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	N.D.	N.D.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.D.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.D.	N.D.	N.D.	N.D.

- NOTE: (1) ppm=mg/kg.
(2) N.D.= NOT DETECTED (<MDL)
(3) N.A.= NOT APPLICABLE
(4) Negative = Abence of CrVI coating
(5) *= Exempted products according to rohs directive amendment 2005/717/EC.
(Directive 2002/95/EC of the European parliament and of The council of 27 January 2003).

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

SAMPLE APPEARANCE DESCRIPTION:

Item No.	Part Name	Description	Test Report No.
1	PCB	Black "pcb"(mixed)	AOV ASZ09032000901L
2	LEAD-FREE TIN	Silvery metal	SGS: CANEC0900884402
3	ELECTROLYTIC CAPACITOR	---	SGS: SH8142216/CHEM
3-1	PLASTIC	Green plastic tube	THE SAME AS ABOVE
3-2	RUBBER	Black rubber cover	THE SAME AS ABOVE
3-3	SHELL	Silvery metal shell	THE SAME AS ABOVE
3-4	FOIL	Silvery metal foil	THE SAME AS ABOVE
3-5	PIN	Silvery metal pin part	THE SAME AS ABOVE
3-6	PIN	Silvery metal extremity pin part	THE SAME AS ABOVE
3-7	PAPER	Brown paper	THE SAME AS ABOVE
4	CHIP CAPACITOR	Brown body w/ silvery metal	CTI: FSR09022613231404
5	CHIP RESISTOR	Black body w/ silvery metal	SGS: KA/2008/C1429
6	IC	---	SGS: SH8130673/CHEM
6-1	BODY	Black body	THE SAME AS ABOVE
6-2	PIN	Silvery metal pin	THE SAME AS ABOVE
7	AUDION	---	SGS: GZ0605075452A/CHEM
7-1	BODY	Black body	THE SAME AS ABOVE
7-2	PIN	Silvery metal pin	THE SAME AS ABOVE
8	SMD CLASS DIODES	Red body w/ silvery metal edge (mixed)	SGS: CANEC0900241309
9	DIODE	---	SGS: CANEC0902784202
9-1	BODY	Black body	THE SAME AS ABOVE
9-2	PIN	Silvery metal pin	THE SAME AS ABOVE
10	LED	---	SGS: CANEC0902784205
10-1	BOYD	Transparent body	THE SAME AS ABOVE
10-2	PIN	Silvery metal pin	THE SAME AS ABOVE
11	INDUCTANCE	Inductance (all mixed)	SGS:CE/2009/63479A
12	SOT-23	Black body with silvery metal pin	TUV 68.160.8.169.01B

Item No.	Part Name	Description	Test Report No.
13	BRASS	Copper-color metal	SGS: CANEC0902647808
14	PHOSPHOR BRONZE	Copper-color metal	SGS: CANEC0902647807
15	COPPER CLAD LAMINATE	Yellow-green solid plate	SGS: SH9017556/CHEM
16	PBT	Black plastic grain	SGS: CANEC09026647801
17	USB PORT	---	SGS: CE/2009/13255A
17-1	PLASTIC	Black/white plastic	THE SAME AS ABOVE
17-2	METAL SHELL	Silvery metal shell	THE SAME AS ABOVE
17-3	METAL PIN	Silvery metal pin	THE SAME AS ABOVE
18	PUSH BUTTON SWITCH	---	SGS: GZSCR051192758/LP
18-1	PLASTIC	white plastic	THE SAME AS ABOVE
18-2	METAL	Copper-color metal	THE SAME AS ABOVE
18-3	METAL	Silvery metal	THE SAME AS ABOVE
19	BATTERY	---	SGS: GZ0904030706/CHME
19-1	FILM	Silvery metal film	THE SAME AS ABOVE
19-2	FILM	transparent plastic film	THE SAME AS ABOVE
19-3	ELECTROLYTE	Electrolyte	THE SAME AS ABOVE
19-4	LITHIA	Lithia	THE SAME AS ABOVE
19-5	CARBON	Carbon	THE SAME AS ABOVE
19-6	ADHESIVE	Yellow transparent adhesive tape	THE SAME AS ABOVE
20	CRUST	Silvery metal	SGS: SH8014606/CHEM
21	SHELF	White plastic shelf	SGS: CANEC0804896002
22	SCREW	Silvery metal	INTERTEK SZHJ03327304
	LIQUID PHOTOMAGEABLE		
23	ETCHING AND PLATING RESIST INK	Deep blue liquid	CTI: FSR090206132305
	THERMER CURABLE		
24	SOLDER RESIST INK	Light-blue liquid	CTI: FSR090206132303
	PHOTOIMAGEABLE		
25	SOLDER RESIST INK	Green liquid	CTI: FSR090206132304
	THERMER CURABLE		
26	SOLDER RESIST INK	White liquid	CTI: FSR090206132303-A

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

APPENDIX A

Photograph of Sample





