

## Test Report NO.:MTR/GRL/N903063 Date: March 19, 2009 Page 1 of 17

Customer: YISURE INDUSTRY AND TRADE CO.,LTD.

Address: NO.218, CANGCHU ROAD, JIANGBEI DISTRICT, NINGBO,

ZHEJIANG, P.R.CHINA

Report on the submitted sample said to be

Sample name: SENSOR DUSTBIN

Model: ZYS-30LE, ZYS-42LE, ZYS-52LE, ZYS-30LEB, ZYS-42LEB, ZYS-52LEB,

ZYS-30LEP, ZYS-42LEP, ZYS-52LEP

Item/Lot NO.:/

Material: /

Buyer: /

Supplier:/

Manufacturer:

Sample received date: March 12, 2009

Testing period: From March 12, 2009 to March19, 2009

### **Testing Requested**

As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBB & PBDE content in the submitted sample in accordance with Directive 2002/95/EC(ROHS).

### **Testing method:**

With reference to IEC 62321, Ed. 111/54CDV

Testing Item	Pretreatment method	Measuring instrument	Report Limit
Lead (Pb)	IEC 62321, section 11/12/13	ICP-OES	2 mg/kg
Cadmium (Cd)	IEC 62321, section 11/12/13	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321, section 10	CV-AAS	2 mg/kg
Chromium	IEC 62321, section 9	UV-VIS	2 mg/kg
(Cr VI)	IEC 62321, section 8.5.1/8.5.2		0.02 mg/kg
PBBs/PBDEs	IEC 62321, section 7	GC-MS	5 mg/kg

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

Signed for Most Technology Service Co., Ltd.

Written by:
Approved by:

Zmara (APPROVE

Inspected by:

Ginger Li

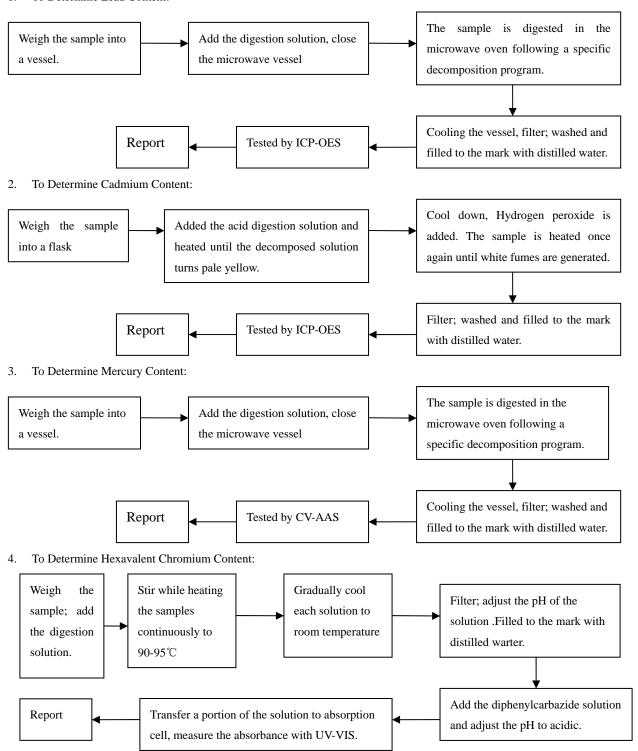
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## **Test Flow:**

### 1. To Determine Lead Content:



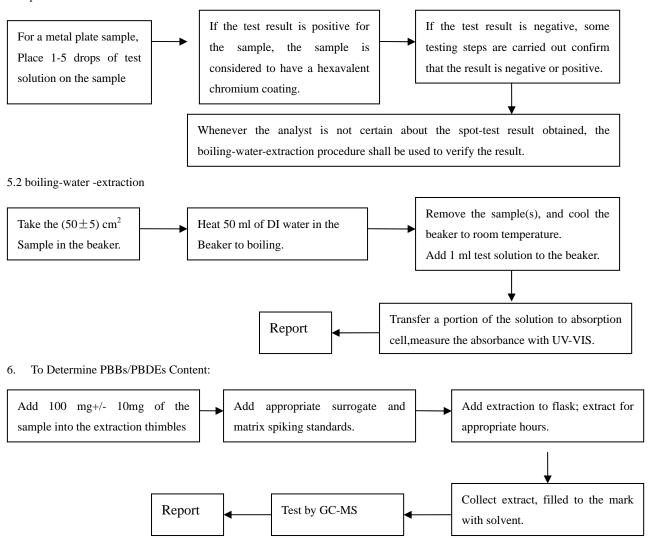
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5. To Determine Hexavalent Chromium Content in colorless and colored chromate coating on metals:

### 5.1.spot-test



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## **Test Part Description:**

TEST NO.	TEST UNIT
1	Top head
2	Barrel body (ABS)
3	Amethyst
4	Battery cover
5	LED light
5.1	Transparent body(mixed)
5.2	Silvery metal pin
6	Next covers
7	Inner loop
8	CERAMIC DISC
8.1	Brown body w/black printing(mixed)
8.2	Silvery metal pin
9	Resistor
9.1	Silvery metal pin part
9.2	Light-brown solid with colorful stripe body part(mix all)
10	Aluminum electrolytic capacitors
10.1	Silvery metal wire part
10.2	Silvery-grey metal foil(cathode foil)
10.3	Silvery-grey metal foil(anode foil)
10.4	Brown electrolytic paper with liquid
10.5	Black rubber plug
10.6	Silvery metal shell



**Test Report Page 5 of 17** NO.:MTR/GRL/N903063 Date: March 19, 2009 10.7 Black plastic tube with grey printing PCB broad 11 12 **ELECTRONICS WIRE PVC** 12.1 12.2 Copper wire Switch 13 13.1 Black plastic 13.2 White plastic Silvery metal 13.3 13.4 Golden metal 14 Spring 15 Screw Soldering tin 16 17 Sensor Metal shell 17.1 17.2 Base Induction piece 17.3 18 Connector 18.1 Beige plastic grains Silvery metal 18.2 19 Electric wire 19.1 Oxygen-free copper strip Black PVC 19.2 20 Minisize motor DOS-Shell 20.1 20.2 Magnetic tiles

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**Test Report** Page 6 of 17 NO.:MTR/GRL/N903063 Date: March 19, 2009 20.3 Spring Steel axletree 20.4 Steel-copper axletree 20.5 Rotor flake 20.6 20.7 Axes thread Enameled wire 20.8 20.9 Soldering tin 20.10 Red washer White washer 20.11 20.12 Brush Copper jioning 20.13 20.14 Plastic Stainless steel barrel body 21 22 Inner cap 23 Diode Mixed 23.1 Silvery metal 23.2 24 The metal sells 25 Third-level tube 25.1 Black main body 25.2 Silver metal foot 26 Transmission gear



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# (1) Test Result: Heavy Metals(Pb, Cd, Cr<sup>6+</sup>, Hg) Tests

Element	Pb	Cd	Cr <sup>6+</sup>	Hg
Limit:	1000(mg/kg)	100 (mg/kg)	1000(mg/kg)	1000(mg/kg)
1	N.D.	N.D.	N.D.	N.D.
2	4.5	N.D.	N.D.	N.D.
3	N.D.	N.D.	N.D.	N.D.
4	6.7	N.D.	N.D.	N.D.
5				
5.1	N.D.	N.D.	N.D.	N.D.
5.2	N.D.	N.D.	N.D.	N.D.
6	12	N.D.	N.D.	N.D.
7	N.D.	N.D.	N.D.	N.D.
8				
8.1	N.D.	N.D.	N.D.	N.D.
8.2	N.D.	N.D.	N.D.	N.D.
9				
9.1	N.D.	N.D.	N.D.	N.D.
9.2	N.D.	N.D.	N.D.	N.D.
10				
10.1	N.D.	N.D.	N.D.	N.D.
10.2	N.D.	N.D.	N.D.	N.D.
10.3	N.D.	N.D.	N.D.	N.D.
10.4	N.D.	N.D.	N.D.	N.D.
10.5	N.D.	N.D.	N.D.	N.D.



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10.6	3.2	N.D.	N.D.	N.D.
10.7	N.D.	N.D.	N.D.	N.D.
11	N.D.	N.D.	N.D.	N.D.
12				
12.1	29	N.D.	N.D.	N.D.
12.2	N.D.	N.D.	N.D.	N.D.
13				
13.1	N.D.	N.D.	N.D.	N.D.
13.2	N.D.	N.D.	N.D.	N.D.
13.3	11	N.D.	N.D.	N.D.
13.4	143	3	N.D.	N.D.
14	133	15	N.D.	N.D.
15	N.D.	N.D.	N.D.	N.D.
16	115	N.D.	N.D.	N.D.
17				
17.1	N.D.	N.D.	N.D.	N.D.
17.2	22	N.D.	N.D.	N.D.
17.3	32	N.D.	N.D.	N.D.
18				
18.1	29	N.D.	N.D.	N.D.
18.2	56	N.D.	N.D.	N.D.
19				
19.1	4	N.D.	N.D.	N.D.
19.2	15	N.D.	N.D.	N.D.
20				
20.1	N.D.	N.D.	N.D.	N.D.



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20.2	N.D.	N.D.	N.D.	N.D.
20.3	N.D.	N.D.	N.D.	N.D.
20.4	N.D.	N.D.	N.D.	N.D.
20.5	217	N.D.	N.D.	N.D.
20.6	47	N.D.	N.D.	N.D.
20.7	N.D.	N.D.	N.D.	N.D.
20.8	N.D.	N.D.	N.D.	N.D.
20.9	N.D.	N.D.	N.D.	N.D.
20.10	N.D.	N.D.	N.D.	N.D.
20.11	N.D.	N.D.	N.D.	N.D.
20.12	N.D.	N.D.	N.D.	N.D.
20.13	38	N.D.	N.D.	N.D.
20.14	N.D.	N.D.	N.D.	N.D.
21	N.D.	N.D.	N.D.	N.D.
22	N.D.	N.D.	N.D.	N.D.
23				
23.1	2.2	N.D.	N.D.	N.D.
23.2	47	N.D.	N.D.	N.D.
24	N.D.	N.D.	N.D.	N.D.
25				
25.1	N.D.	N.D.	N.D.	N.D.
25.2	17	N.D.	N.D.	N.D.
26	17	N.D.	N.D.	N.D.

Note: 1. Specimens, Which requested to determine Cadmium, Mercury and lead Content, have been dissolved completely

- 2. N.D.=Not detected(<MDL)
- 3. 1mg/kg=1ppm=0.0001%

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## 2)Test Results: Brominated Flame Retardants(PPB & PPDEs) Tests

	1	2	3	4	5.1
PBBS					
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabrombiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromondiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs (sum of mono-PBB to	N.D.	N.D.	N.D.	N.D.	N.D.
deca-PBB)					
PBDEs					
Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Terabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs (sum of mono-PBDE to nona-PBDE)	N.D.	N.D.	N.D.	N.D.	N.D.



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	6	7	8.1	9.2	10.4
PBBS					
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabrombiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromondiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs (sum of mono-PBB to	N.D.	N.D.	N.D.	N.D.	N.D.
deca-PBB)					
PBDEs					
Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Terabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs (sum of mono-PBDE to nona-PBDE)	N.D.	N.D.	N.D.	N.D.	N.D.
nona-r dde)					



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	10.5	10.7	11	12.1	13.1
PBBS					
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabrombiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromondiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs (sum of mono-PBB to	N.D.	N.D.	N.D.	N.D.	N.D.
deca-PBB)					
PBDEs					
Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Terabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs (sum of mono-PBDE to nona-PBDE)	N.D.	N.D.	N.D.	N.D.	N.D.



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	13.2	16	17.2	17.3	18.1
PBBS					
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabrombiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromondiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs (sum of mono-PBB to	N.D.	N.D.	N.D.	N.D.	N.D.
deca-PBB)					
PBDEs					
Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Terabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs (sum of mono-PBDE to	N.D.	N.D.	N.D.	N.D.	N.D.
nona-PBDE)					



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	18.2	19.1	19.2	20.8	20.10
PBBS					
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabrombiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromondiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs (sum of mono-PBB to	N.D.	N.D.	N.D.	N.D.	N.D.
deca-PBB)					
PBDEs					
Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Terabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs (sum of mono-PBDE to nona-PBDE)	N.D.	N.D.	N.D.	N.D.	N.D.



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	20.14	22	23.1	25.1	26
PBBS					
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabrombiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromondiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs (sum of mono-PBB to	N.D.	N.D.	N.D.	N.D.	N.D.
deca-PBB)					
PBDEs					
Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Tibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Terabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodephenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs (sum of mono-PBDE to nona-PBDE)	N.D.	N.D.	N.D.	N.D.	N.D.

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

2. 1mg/kg=1ppm=0.0001%



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# **APPENDIX I**

(Photos of the Sample)



# **Test Report**

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# Appendix 1

## Front views of "SENSOR DUSTBIN"









----- End of report -----

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