

# Test Report

Report No.RLSZE0015385801R1

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**Applicant** YUNG LI CO.,LTD

**Address** DA PU INDUSTRIAL ZONE,GANG ZI,CHANG PING TOWN, DONG GUAN  
CITY,GUANG DONG 523571 CHINA

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client**

Sample Name Please refer to the following page(s)

Part No. Please refer to the following page(s)

Sample Received Date Dec. 28, 2012

Testing Period Dec. 28, 2012 to Jan.5, 2013

**Test Requested** As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Red phosphorus, Perfluorooctane Sulfonates(PFOS), Tetrabromobisphenol-A (TBBP-A), Polycyclic Aromatic Hydrocarbons(PAHs) in the submitted sample(s).

**Test Method** Please refer to the following page(s).

**Test Result(s)** Please refer to the following page(s).

Tested by

*Rick Lin*

Reviewed by

*Vargas He*

Approved by

*Danny Liu*

Date

Jan. 8, 2013

Danny Liu  
Technical Manager



No. 11033271

Centre Testing International (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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No.	Sample Name(s)
(1)	PVC BLACK
(2)	PVC WHITE
(3)	PVC BROWN
(4)	PVC BLUE
(5)	PVC YELLOW
(6)	AC/DC POWER CORD & PLUG ADAPTERS
(7)	PVC GREEN
(8)	PVC RED
(9)	INK
(10)	INNERBODY
(11)	CABLE COPPER
	TERMINAL COPPER

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Part No.

YP-01	YP-12N	YP-19	YP-58N	YC-01	YC-13K	YC-59	YD-05	YL-0213	YL-3613A
YP-02	YP-12P	YP-19L	YP-59	YC-04	YC-13L	YC-72	YD-06	YL-0222	YL-3613L
YP-02L	YP-13	YP-27	YP-62	YC-05	YC-13LG	YC-73	YD-07	YL-0312	YL-3621
YP-03	YP-13B	YP-28	YP-63	YC-05-1	YC-13S	YC-77	YD-09	YL-0314	YL-3621L
YP-03L	YP-13BL	YP-29	YP-64	YC-05A	YC-13W	YC-79	YD-10	YL-0315	YL-3622
YP-03A	YP-13C	YP-32	YP-65	YC-05B	YC-13P	YC-18K	YD-11	YL-0323	YL-3622L
YP-03B	YP-13D	YP-32L	YP-66	YC-05C	YC-13PL	YC-17	YD-12	YL-1113	YL-915
YP-06	YP-13H	YP-32A	YP-67	YC-06	YC-14	YC-61	YD-13	YL-1113A	YL-915A
YP-07	YP-13HB	YP-32Y	YP-68L	YC-06R	YC-14G	YC-62	YD-14	YL-1113L	YL-916
YP-08	YP-13HP	YP-32B	YP-69L	YC-07	YC-14L	YC-64	YD-15	YL-1113B	YL-921
YP-09	YP-13L	YP-32BL	YP-72L	YC-07W	YC-14L-A	YC-12HL	YD-16	YL-1113C	YL-921A
YP-10	YP-13M	YP-32BL-1	YP-73L	YC-08	YC-14GL	YC-05L	YD-17	YL-1113BL	YL-921B
YP-11	YP-13N	YP-32BL-2	YP-74L	YC-09	YC-14S	YC-12SL	YD-17A	YL-1122	YL-935
YP-11A	YP-13O	YP-32BL-3	YP-75L	YC-10	YC-15	---	YD-17B	YL-1122L	YL-939
YP-11C	YP-13E	YP-32BL-4	YP-76	YC-11	YC-16	---	YD-17L	YL-1200	YL-1800
YP-11L	YP-13G	YP-33	YP-77	YC-11GL	YC-17	---	YD-18	YL-1212L	YL-27B17
YP-11L-9	YP-13P	YP-33A	YP-78	YC-12	YC-18	---	YD-19	YL-1214	YL-3215A
YP-11W	YP-13Q	YP-33BL	YP-79	YC-12A	YC-18L	---	YD-20	YL-1214L	YL-1255
YP-11P	YP-13S	YP-33AL	YP-82	YC-12C	YC-18A	---	YD-21	YL-1214G	YL-1256
YP-11R	YP-13T	YP-33AL-1	YP-83	YC-12D	YC-19	---	YD-22	YL-1214W	YL-1653
YP-11T	YP-13U	YP-33AL-2	YP-84	YC-12G	YC-20	---	YD-23	YL-1223	YL-1756
YP-11G	YP-13Y	YP-33AL-3	YP-88L	YC-12K	YC-20L	---	YD-24	YL-1245	YL-1217
YP-11F	YP-13F	YP-33AL-4	YP-90L	YC-12L	YC-20LR	---	YD-25	YL-1246	YL-5556
YP-11K	YP-13R	YP-35	YP-91L	YC-12T	YC-21	---	YD-26	YL-150	YL-5655
YP-12	YP-13W	YP-36	YP-92L	YC-12-01	YC-21A	---	YD-27	YL-150A	YL-5216
YP-12A	YP-13K	YP-37	YP-93L	YC-12GL	YC-21L	---	YD-28	YL-212	YL-5316

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YP-12C	YP-15	YP-39	YP-93L-1	YC-12GL-3	YC-22	YD-29	YL-312	YL-5517
YP-12E	YP-15G	YP-40	YP-93L-2	YC-12LR	YC-23	YD-30	YL-315	YL-5617
YP-12G	YP-15T	YP-41	YP-93L-3	YC-12S	YC-24	SR 系列	YL-3213	YL-321212
YP-12D	YP-16	YP-42	YP-94L	YC-12Y	YC-25	YCM-001	YL-3214	YL-321515
YP-12L	YP-16L	YP-43	YP-95L	YC-13	YC-25L	YCM-002	YL-3215	YL-3320
YP-12L-9	YP-17	YP-33B	YP-96L	YC-13A	YC-35	YCM-003	YL-3223	YL-331212
YP-12L-11	YP-17L	YP-49	YP-97L	YC-13B	YC-45	YCM-004	YL-3512	YP-3213A
YP-12L-12	YP-18	YP-52	YP-98L	YC-13BL	YC-46	YCM-005	YL-3512L	YL-3315
YP-12L-13	YP-18A	YP-53	YP-99L	YC-13C	YC-52	---	YL-3514	YL-223
YP-12L-14	YP-18B	YP-54	YP-103L	YC-13D	YC-53	---	YL-3515	---
YP-12L-15	YP-18L	YP-55	---	YC-13E	YC-54	---	YL-3522	---
YP-12L-16	YP-18N	YP-56	---	YC-13F	YC-55	---	YL-3523	---
YP-12L-17	YP-18T	YP-57	---	YC-13G	YC-56	---	YL-3613	---
YP-12L-18	YP-18G	YP-58	---	YC-13H	YC-58	---	---	---

## Test Method

Tested Item(s)	Test Method	Measured Equipment(s)	MDL
Lead (Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
	IEC 62321:2008 Ed.1 Sec.9		
	IEC 62321:2008 Ed.1 Sec.10		
Cadmium (Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
	IEC 62321:2008 Ed.1 Sec.9		
	IEC 62321:2008 Ed.1 Sec.10		
Mercury (Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	/
	IEC 62321:2008 Ed.1 Annex C		2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Perfluorooctane Sulfonates (PFOS)	Refer to US EPA 3550C:2007	LC-MS-MS	5 mg/kg
Tetrabromobisphenol-A (TBBP-A)	Refer to US EPA 3540C:1996	GC-MS	5 mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)	Refer to US EPA 3550C:2007 & US EPA 8270D:2007	GC-MS	0.2 mg/kg
Red phosphorus	In-house method	Pyrolyzer/GC-MS	0.1 %

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**Test Result(s)**

Tested Item(s)	Result		
	(1)	(2)	(3)
Lead (Pb)	N.D.	N.D.	N.D.
Cadmium (Cd)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(4)	(5)	(6)
Lead (Pb)	N.D.	N.D.	N.D.
Cadmium (Cd)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(7)	(8)	(9)
Lead (Pb)	N.D.	N.D.	8 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.

Tested Item(s)	Result	
	(10)	(11)
Lead (Pb)	N.D.	40 mg/kg
Cadmium (Cd)	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	Negative	Negative

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**Test Result(s)**

Tested Item(s)	Result		
	(1)	(2)	(3)
<b>Polybrominated Biphenyls(PBBs)</b>			
Monobromobiphenyl	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.
Tribromobiphenyl	N.D.	N.D.	N.D.
Tetrabromobiphenyl	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.
Nonabromobiphenyl	N.D.	N.D.	N.D.
Decabromobiphenyl	N.D.	N.D.	N.D.
<b>Polybrominated Diphenyl Ethers(PBDEs)</b>			
Monobromodiphenyl ether	N.D.	N.D.	N.D.
Dibromodiphenyl ether	N.D.	N.D.	N.D.
Tribromodiphenyl ether	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	N.D.	N.D.	N.D.
Octabromodiphenyl ether	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	N.D.	N.D.	N.D.
Decabromodiphenyl ether	N.D.	N.D.	N.D.

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**Test Result(s)**

Tested Item(s)	Result		
	(4)	(5)	(6)
<b>Polybrominated Biphenyls(PBBs)</b>			
Monobromobiphenyl	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.
Tribromobiphenyl	N.D.	N.D.	N.D.
Tetrabromobiphenyl	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.
Nonabromobiphenyl	N.D.	N.D.	N.D.
Decabromobiphenyl	N.D.	N.D.	N.D.
<b>Polybrominated Diphenyl Ethers(PBDEs)</b>			
Monobromodiphenyl ether	N.D.	N.D.	N.D.
Dibromodiphenyl ether	N.D.	N.D.	N.D.
Tribromodiphenyl ether	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	N.D.	N.D.	N.D.
Octabromodiphenyl ether	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	N.D.	N.D.	N.D.
Decabromodiphenyl ether	N.D.	N.D.	N.D.

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**Test Result(s)**

Tested Item(s)	Result		
	(7)	(8)	(9)
<b>Polybrominated Biphenyls(PBBs)</b>			
Monobromobiphenyl	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.
Tribromobiphenyl	N.D.	N.D.	N.D.
Tetrabromobiphenyl	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.
Nonabromobiphenyl	N.D.	N.D.	N.D.
Decabromobiphenyl	N.D.	N.D.	N.D.
<b>Polybrominated Diphenyl Ethers(PBDEs)</b>			
Monobromodiphenyl ether	N.D.	N.D.	N.D.
Dibromodiphenyl ether	N.D.	N.D.	N.D.
Tribromodiphenyl ether	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	N.D.	N.D.	N.D.
Octabromodiphenyl ether	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	N.D.	N.D.	N.D.
Decabromodiphenyl ether	N.D.	N.D.	N.D.



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**Test Result(s)**

Tested Item(s)	Result		
	(1)	(2)	(3)
<b>Polycyclic Aromatic Hydrocarbons(PAHs)</b>			
Naphthalene	N.D.	N.D.	N.D.
Acenaphthylene	N.D.	N.D.	N.D.
Acenaphthene	N.D.	N.D.	N.D.
Fluorene	N.D.	N.D.	N.D.
Phenanthrene	N.D.	N.D.	N.D.
Anthracene	N.D.	N.D.	N.D.
Fluoranthene	N.D.	N.D.	N.D.
Pyrene	N.D.	N.D.	N.D.
Benzo[a]anthracene	N.D.	N.D.	N.D.
Chrysene	N.D.	N.D.	N.D.
Benzo[b]fluoranthene	N.D.	N.D.	N.D.
Benzo[k]fluoranthene	N.D.	N.D.	N.D.
Benzo[a]pyrene	N.D.	N.D.	N.D.
Indeno[1,2,3-cd]pyrene	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene	N.D.	N.D.	N.D.
Benzo[g,h,i]perylene	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	N.D.	N.D.	N.D.
Benzo[e]pyrene	N.D.	N.D.	N.D.

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**Test Result(s)**

Tested Item(s)	Result		
	(4)	(5)	(6)
<b>Polycyclic Aromatic Hydrocarbons(PAHs)</b>			
Naphthalene	N.D.	N.D.	N.D.
Acenaphthylene	N.D.	N.D.	N.D.
Acenaphthene	N.D.	N.D.	N.D.
Fluorene	N.D.	N.D.	N.D.
Phenanthrene	N.D.	N.D.	N.D.
Anthracene	N.D.	N.D.	N.D.
Fluoranthene	N.D.	N.D.	N.D.
Pyrene	N.D.	N.D.	N.D.
Benzo[a]anthracene	N.D.	N.D.	N.D.
Chrysene	N.D.	N.D.	N.D.
Benzo[b]fluoranthene	N.D.	N.D.	N.D.
Benzo[k]fluoranthene	N.D.	N.D.	N.D.
Benzo[a]pyrene	N.D.	N.D.	N.D.
Indeno[1,2,3-cd]pyrene	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene	N.D.	N.D.	N.D.
Benzo[g,h,i]perylene	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	N.D.	N.D.	N.D.
Benzo[e]pyrene	N.D.	N.D.	N.D.

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**Test Result(s)**

Tested Item(s)	Result		
	(7)	(8)	(9)
<b>Polycyclic Aromatic Hydrocarbons(PAHs)</b>			
Naphthalene	N.D.	N.D.	N.D.
Acenaphthylene	N.D.	N.D.	N.D.
Acenaphthene	N.D.	N.D.	N.D.
Fluorene	N.D.	N.D.	N.D.
Phenanthrene	N.D.	N.D.	N.D.
Anthracene	N.D.	N.D.	N.D.
Fluoranthene	N.D.	N.D.	N.D.
Pyrene	N.D.	N.D.	N.D.
Benzo[a]anthracene	N.D.	N.D.	N.D.
Chrysene	N.D.	N.D.	N.D.
Benzo[b]fluoranthene	N.D.	N.D.	N.D.
Benzo[k]fluoranthene	N.D.	N.D.	N.D.
Benzo[a]pyrene	N.D.	N.D.	N.D.
Indeno[1,2,3-cd]pyrene	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene	N.D.	N.D.	N.D.
Benzo[g,h,i]perylene	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	N.D.	N.D.	N.D.
Benzo[e]pyrene	N.D.	N.D.	N.D.

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**Test Result(s)**

Tested Item(s)	Result		
	(1)	(2)	(3)
Perfluorooctane Sulfonates(PFOS)	N.D.	N.D.	N.D.
Tetrabromobisphenol-A (TBBP-A)	N.D.	N.D.	N.D.
Red phosphorus	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(4)	(5)	(6)
Perfluorooctane Sulfonates(PFOS)	N.D.	N.D.	N.D.
Tetrabromobisphenol-A (TBBP-A)	N.D.	N.D.	N.D.
Red phosphorus	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(7)	(8)	(9)
Perfluorooctane Sulfonates(PFOS)	N.D.	N.D.	N.D.
Tetrabromobisphenol-A (TBBP-A)	N.D.	N.D.	N.D.
Red phosphorus	N.D.	N.D.	N.D.

**Tested Sample/Part Description**

- (1) Black plastic grains
- (2) White plastic grains
- (3) Brown plastic grains
- (4) Blue plastic grains
- (5) Yellow plastic grains
- (6) Green plastic grains
- (7) Red plastic grains
- (8) White liquid
- (9) White plastic
- (10) Cupreous metal wire
- (11) Golden metal

**Note:** The samples had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm<sup>2</sup> sample surface area used.

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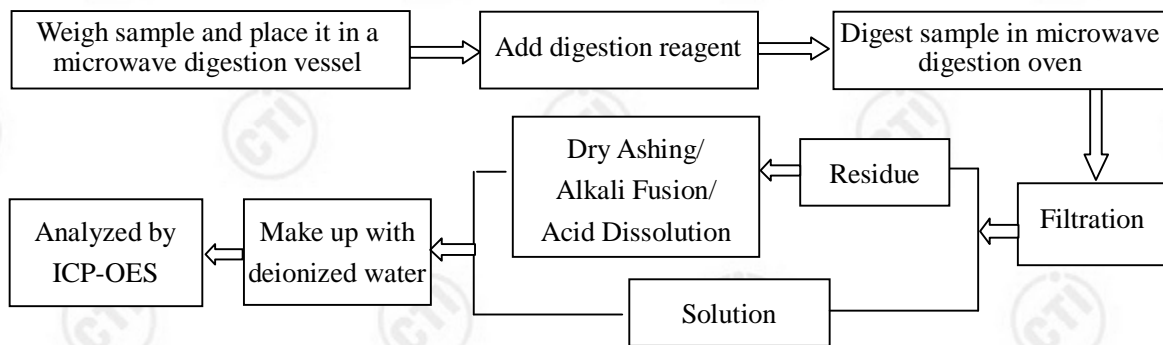
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**Remark:** 1. According to the client's statement, the material of sample (1)-(8),(10) in this report are the same as the sample (1)-(9) in report No. RLSZE00153858, so the test result(s) of sample (1)-(8),(10) are presented in reference to that one.  
2. This report replaces RLSZE0015385801. Report RLSZE0015385801 is now terminated. The end number R1 of this report represents the revised version.

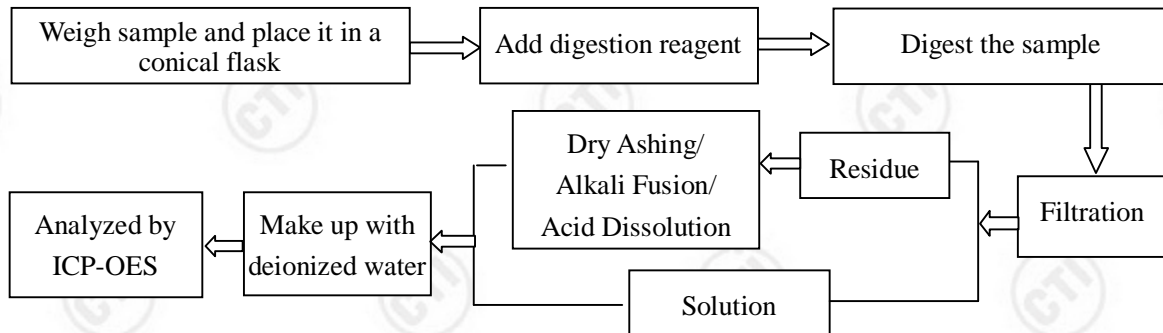
## Test Process

### 1. Lead(Pb), Cadmium(Cd)

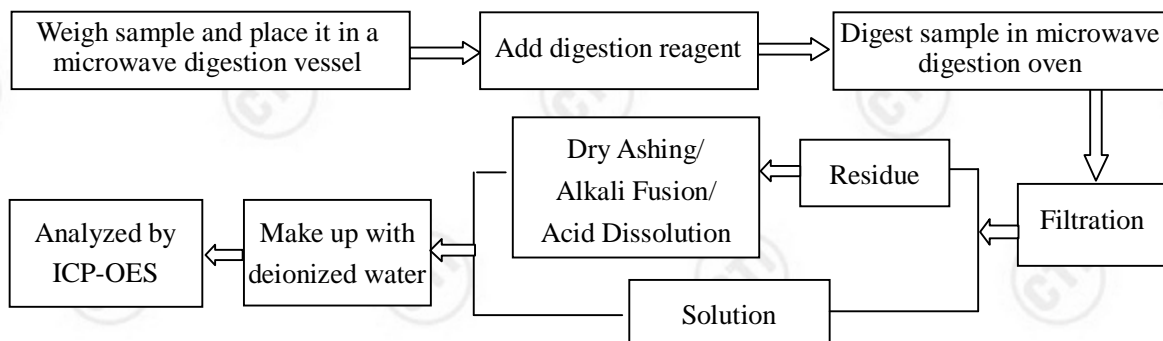
#### (1) IEC 62321:2008 Ed.1 Sec.8



#### (2) IEC 62321:2008 Ed.1 Sec.9



#### (3) IEC 62321:2008 Ed.1 Sec.10

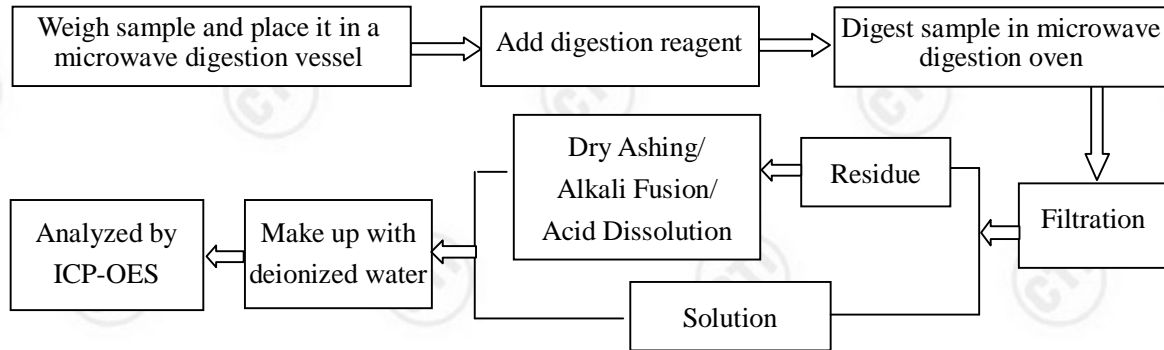


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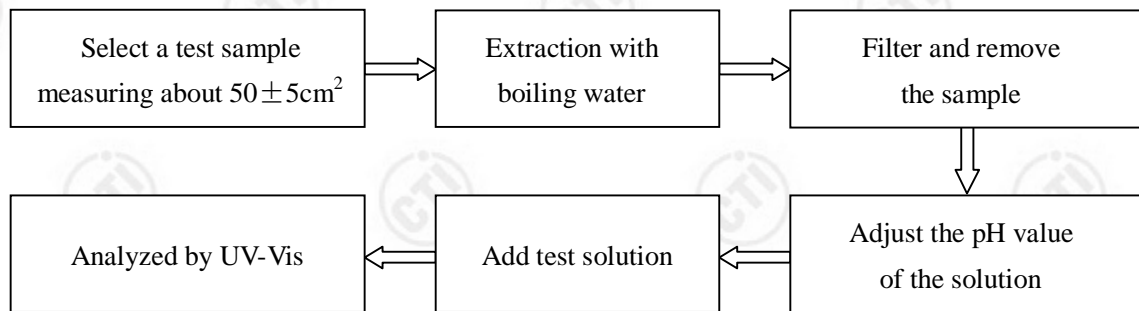
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## 2. Mercury(Hg)

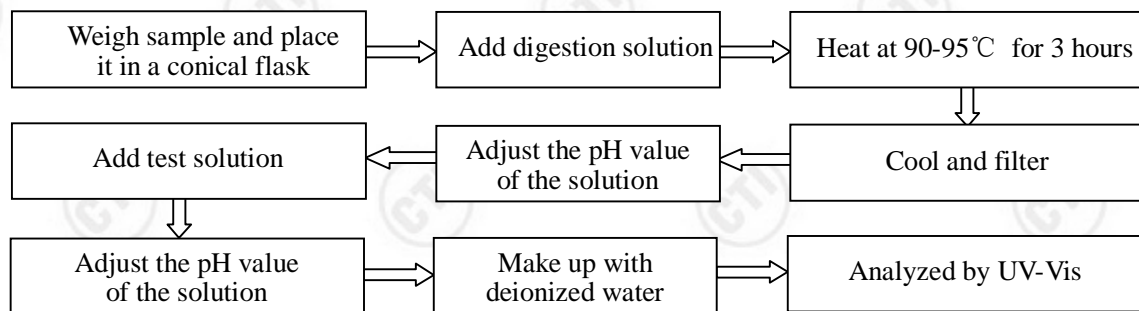


## 3. Hexavalent Chromium(Cr(VI))

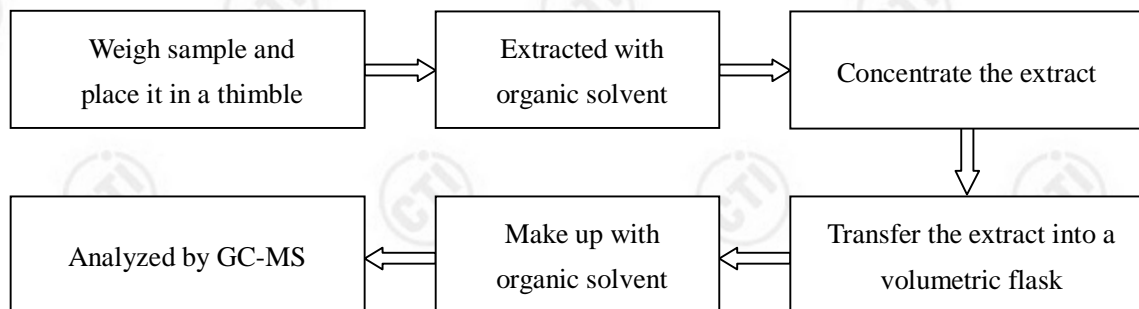
### (1) IEC 62321:2008 Ed.1 Annex B



### (2) IEC 62321:2008 Ed.1 Annex C



## 4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)

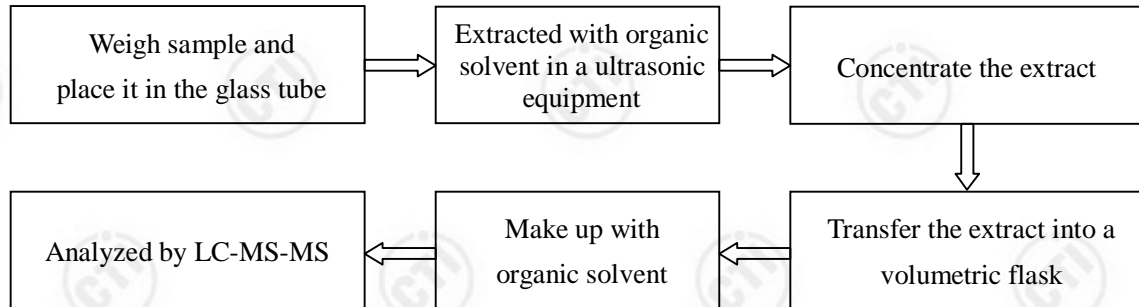


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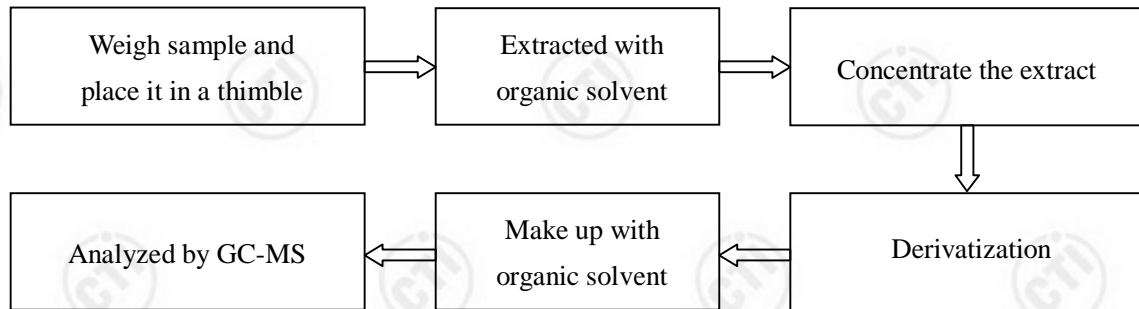
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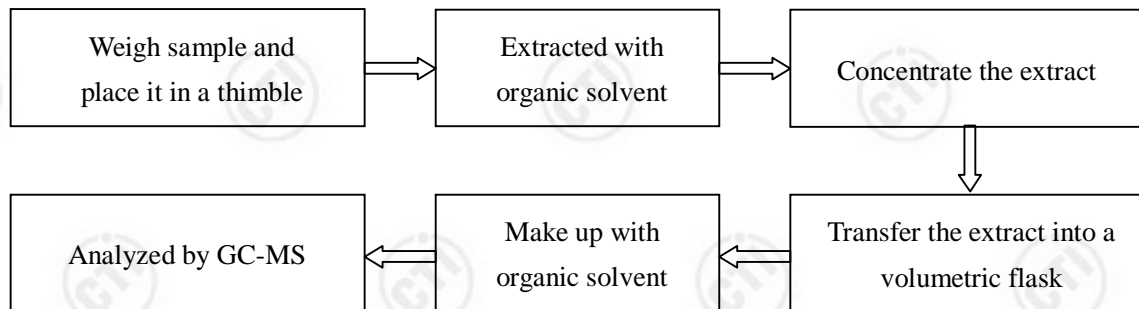
## 5. Perfluorooctane Sulfonates(PFOS)



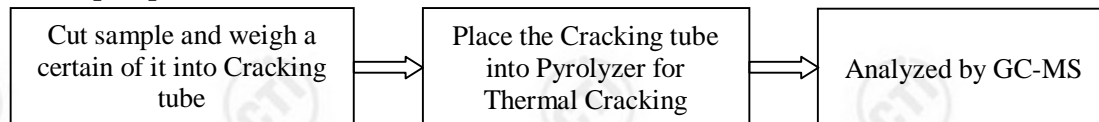
## 6. Tetrabromobisphenol-A (TBBP-A)



## 7. Polycyclic Aromatic Hydrocarbons(PAHs)



## 8. Red phosphorus



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## Photo(s) of the sample(s)

(1)



(2)



(3)



(4)



(5)



(6)





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## Photo(s) of the sample(s)

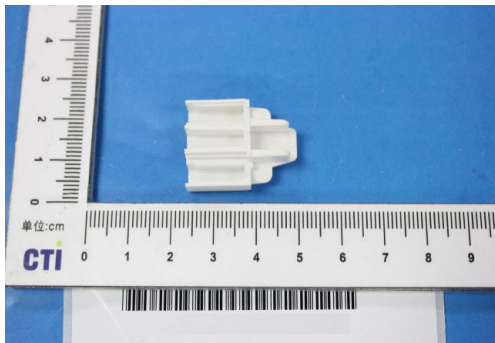
(7)



(8)



(9)



(10)



(11)



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

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.