

Test Report

Report No. : RGST160120301

Date : Jan 27, 2016

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Applicant : Precaster Enterprises Co., LTD.**Address** : No.204, Sec.2, Fuxing Rd., South District, Taichung, Taiwan**Report on the submitted sample(s) said to be :****Sample(s) Name** : Handheld Laser Distance Meter**Item No.** : CA 640, CA670, CA6100, EL40, EL50, EL70, EL100, DM40,
DM50, DM70, DM100, CX40, CX50, CX70, CX100**Manufacturer** : Precaster Enterprises Co., LTD**Address** : 2F, No.170, Xuefu Rd., South District, Taichung, Taiwan**Brand** : Precaster**Country of Origin** : Taiwan**Sample(s) received date** : Jan 20, 2016**Testing period** : From Jan 20, 2016 to Jan 26, 2016**Test Request**

(1) As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr⁶⁺), Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample(s) in accordance with Directive 2011/65/EU (RoHS).

Conclusion

Pass

Prepared by:

Madeline

Madeline Ma

Report Producer

Checked by:

Leif

Leif Li

Technical Supervisor



Approved by:

M

Fanjun Li

Technical Manager

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Photograph(s) of Sample



Front of sample



Back of sample

GST authenticate the photo on original report only

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Specimen Description:

No.	Test part(s) name
1	Matt white plastic (shell)
2	Black soft plastic (shell)
3	Yellow/black/silver/red printed clear plastic sticker (warning label)
4	Black foam sticker (inner body)
5	Black plastic (inner body)
6	Clear glue (inner body)
7	Silvery metal spring(battery component)
8	Silvery metal shrapnel (battery component)
9	Black printed silvery plastic sticker (inner battery component)
10	Silvery metal nut (on body)
11	Grey/orange/red/white printed transparent plastic sicker (silk-screen of body)
12	Br clear plastic (plastic film inner body)
13	Clear double side adhesive tape(plastic film inner body)
14	Matt clear plastic(plastic film inner body)
15	Green/golden coating(plastic film inner body)
16	Black plastic sticker (screen inner body)
17	Deep Brown plastic (PCBA of screen inner body)
18	Black printed white paper sticker (screen inner body)
19	Black printed white plastic (screen inner body)
20	Silvery plastic sticker (screen inner body)
21	White PVC sticker (screen inner body)
22	Clear white plastic (screen inner body)
23	Grey plastic (screen inner body)
24	Translucent plastic (screen inner body)
25	Black soft plastic (screen inner body)
26	Clear purple plastic sticker (screen inner body)
27	Clear glass (screen inner body)
28	White printed yellow plastic with metal (PCBA of screen inner body)

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No.	Test part(s) name
29	Coppery metal (emitter inner body)
30	Silvery metal (bottom of emitter inner body)
31	Grey metal spring(emitter inner body)
32	Bright clear plastic (lens of emitter inner body)
33	Clear glue (fixed of emitter inner body)
34	Matt clear plastic (lens of body)
35	Clear glass (lens of body)
36	Silvery metal shrapnel(fastener of emitter inner body)
37	Black plated silvery metal nut(inner body)
38	Silvery metal screw(inner body)
39	Silvery metal big screw(body)
40	Bright silvery metal shell (on PCB)
41	Golden printed silvery metal shell (code LD2 on PCB)
42	Golden printed silvery pin(code LD2 on PCB)
43	Matt silvery metal (code LD2 on PCB)
44	Black printed white plastic sticker (barcode on PCB)
45	Black ceramic with glass (code D10 on PCB)
46	Black plastic (socket on PCB)
47	Silvery metal pin(socket on PCB)
48	Matt black plastic (code B1 of inductance on PCB)
49	Golden metal coil (code B1 of inductance on PCB)
50	Silvery metal big round sheet (code B1 of inductance on PCB)
51	Silvery metal small round sheet (code B1 of inductance on PCB)
52	Silvery metal sheet (code B1 of inductance on PCB)
53	Black magnet (code B1 of inductance on PCB)
54	Brown plastic (socket on PCB)
55	Beige plastic (socket on PCB)
56	Silvery metal contact pin(socket on PCB)

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No.	Test part(s) name
57	SMD big IC
58	SMD small IC
59	SMD IC
60	SMD crystal
61	SMD inductance(code L1)
62	SMD golden metal wire(code L1)
63	SMD inductance(code L11)
64	SMD diode
65	SMD big capacitance
66	SMD small capacitance
67	SMD resistance
68	SMD audion
69	Blue printed brown PCB board with metal
70	White/green printed brown PCB board with metal
71	Silver solder

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Results:

(1) RoHS Directive 2011/65/EU and its amendment directives Screening by X-ray fluorescence spectrometry

Test item(s)	Test Method	Test Instrument
Lead, mercury, cadmium, chromium and bromine	IEC 62321-3-1:2013	X-ray fluorescence Spectrophotometer

Seq. No.	Tested Part(s)	Result(s)				
		Pb	Cd	Cr	Hg	Br
1	Matt white plastic (shell)	BL	BL	BL	BL	BL
2	Black soft plastic (shell)	BL	BL	BL	BL	BL
3	Yellow/black/silver/red printed clear plastic sticker (warning label)	BL	BL	BL	BL	BL
4	Black foam sticker (inner body)	BL	BL	BL	BL	BL
5	Black plastic (inner body)	BL	BL	BL	BL	BL
6	Clear glue (inner body)	BL	BL	BL	BL	BL
7	Silvery metal spring(battery component)	BL	BL	BL	BL	NA
8	Silvery metal shrapnel (battery component)	BL	BL	BL	BL	NA
9	Black printed silvery plastic sticker (inner battery component)	BL	BL	BL	BL	BL
10	Silvery metal nut (on body)	BL	BL	X	BL	NA
11	Grey/orange/red/white printed transparent plastic sticker (silk-screen of body)	BL	BL	BL	BL	BL
12	Br clear plastic (plastic film inner body)	BL	BL	BL	BL	BL
13	Clear double side adhesive tape(plastic film inner body)	BL	BL	BL	BL	BL
14	Matt clear plastic(plastic film inner body)	BL	BL	BL	BL	BL
15	Green/golden coating(plastic film inner body)	BL	BL	BL	BL	BL
16	Black plastic sticker (screen inner body)	BL	BL	BL	BL	BL
17	Deep Brown plastic (PCBA of screen inner body)	BL	BL	BL	BL	BL
18	Black printed white paper sticker (screen inner body)	BL	BL	BL	BL	BL
19	Black printed white plastic (screen inner body)	BL	BL	BL	BL	BL
20	Silvery plastic sticker (screen inner body)	BL	BL	BL	BL	BL
21	White PVC sticker (screen inner body)	BL	BL	BL	BL	BL
22	Clear white plastic (screen inner body)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Result(s)				
		Pb	Cd	Cr	Hg	Br
23	Grey plastic (screen inner body)	BL	BL	BL	BL	BL
24	Translucent plastic (screen inner body)	BL	BL	BL	BL	BL
25	Black soft plastic (screen inner body)	BL	BL	BL	BL	BL
26	Clear purple plastic sticker (screen inner body)	BL	BL	BL	BL	BL
27	Clear glass (screen inner body)	BL	BL	BL	BL	BL
28	White printed yellow plastic with metal (PCBA of screen inner body)	BL	BL	BL	BL	BL
29	Coppery metal (emitter inner body)	X	BL	BL	BL	NA
30	Silvery metal (bottom of emitter inner body)	BL	BL	BL	BL	NA
31	Grey metal spring(emitter inner body)	BL	BL	X	BL	NA
32	Bright clear plastic (lens of emitter inner body)	BL	BL	BL	BL	BL
33	Clear glue (fixed of emitter inner body)	BL	BL	BL	BL	BL
34	Matt clear plastic (lens of body)	BL	BL	BL	BL	BL
35	Clear glass (lens of body)	BL	BL	BL	BL	BL
36	Silvery metal shrapnel (fastener of emitter inner body)	BL	BL	X	BL	NA
37	Black plated silvery metal nut (inner body)	BL	BL	X	BL	NA
38	Silvery metal screw (inner body)	BL	BL	BL	BL	NA
39	Silvery metal big screw (body)	BL	BL	BL	BL	NA
40	Bright silvery metal shell (on PCB)	BL	BL	BL	BL	NA
41	Golden printed silvery metal shell (code LD2 on PCB)	BL	BL	BL	BL	NA
42	Golden printed silvery pin (code LD2 on PCB)	BL	BL	BL	BL	NA
43	Matt silvery metal (code LD2 on PCB)	BL	BL	BL	BL	NA
44	Black printed white plastic sticker (barcode on PCB)	BL	BL	BL	BL	BL
45	Black ceramic with glass (code D10 on PCB)	BL	BL	X	BL	BL
46	Black plastic (socket on PCB)	BL	BL	BL	BL	X
47	Silvery metal pin(socket on PCB)	BL	BL	BL	BL	NA
48	Matt black plastic (code B1 of inductance on PCB)	BL	BL	BL	BL	BL
49	Golden metal coil (code B1 of inductance on PCB)	BL	BL	BL	BL	NA

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Seq. No.	Tested Part(s)	Result(s)				
		Pb	Cd	Cr	Hg	Br
50	Silvery metal big round sheet (code B1 of inductance on PCB)	BL	BL	BL	BL	NA
51	Silvery metal small round sheet (code B1 of inductance on PCB)	BL	BL	BL	BL	NA
52	Silvery metal sheet (code B1 of inductance on PCB)	BL	BL	BL	BL	NA
53	Black magnet (code B1 of inductance on PCB)	BL	BL	X	BL	NA
54	Brown plastic (socket on PCB)	BL	BL	BL	BL	BL
55	Beige plastic (socket on PCB)	BL	BL	BL	BL	X
56	Silvery metal contact pin(socket on PCB)	BL	BL	BL	BL	NA
57	SMD big IC	BL	BL	BL	BL	BL
58	SMD small IC	BL	BL	BL	BL	BL
59	SMD IC	BL	BL	BL	BL	BL
60	SMD crystal	BL	BL	BL	BL	BL
61	SMD inductance(code L1)	BL	BL	BL	BL	X
62	SMD golden metal wire(code L1)	BL	BL	BL	BL	NA
63	SMD inductance(code L11)	BL	BL	BL	BL	BL
64	SMD diode	BL	BL	BL	BL	BL
65	SMD big capacitance	BL	BL	BL	BL	BL
66	SMD small capacitance	BL	BL	BL	BL	BL
67	SMD resistance	X	BL	X	BL	X
68	SMD audion	BL	BL	BL	BL	BL
69	Blue printed brown PCB board with metal	BL	BL	BL	BL	X
70	White/green printed brown PCB board with metal	BL	BL	BL	BL	X
71	Silver solder	BL	BL	BL	BL	NA

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- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70-3\sigma < X < 130+3\sigma \leq OL$	$BL \leq 70-3\sigma < X < 130+3\sigma \leq OL$	$LOD < X < 150+3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X < 1500+3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X < 1500+3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700-3\sigma < X$	$BL \leq 700-3\sigma < X$	$BL \leq 500-3\sigma < X$
Br	mg/kg	$BL \leq 300-3\sigma < X$	--	$BL \leq 250-3\sigma < X$

Note:

- BL= Below Limit
- OL= Over Limit
- X = Inconclusive
- NA=Not Applicable

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample(s) be of non-uniformity composition.

- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment.

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominate diphenylethers (PBDEs)	1000

Disclaimers

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the This Test Report is issued by the Company subject to its Conditions of Issuance of Test Report printed overleaf or attached. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated. This Test Report shall not be reproduced expected in full, without written approval of the Company.

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sample(s) size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

The Test Results of Chemical Method

Lead content

Test Method: IEC 62321-5:2013

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test item(s)	Unit	MDL	RoHS Limit	Result(s)	
				29*	67
Lead(Pb)	mg/kg	10	1000	29919	711
Conclusion				Pass	Pass

*= As claimed by the material declaration submitted by the client, the material of the sample No.29 is copper alloy. And according to RoHS directive 2011/65/EU and its amendments Annex III n.6(c), Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight .

Hexavalent Chromium content

Test Method: IEC 62321 Edition 1.0:2008 and IEC 62321-7-1: 2015

Test Instrument: Ultraviolet and Visible Spectrophotometer(UV-Vis)

Test item(s)	Unit	MDL	RoHS Limit	Result(s)	
				45	67
Chromium (VI) Content	mg/kg	10	1000	N.D.	N.D.
Conclusion				Pass	Pass

Test item(s)	Unit	MDL	RoHS Limit	Result(s)	
				10	31
Chromium (VI) Content	µg/cm ²	0.10	See Remark	Negative	Negative
Conclusion				Pass	Pass

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Test item(s)	Unit	MDL	RoHS Limit	Result(s)		
				36	37	53
Chromium (VI) Content	µg/cm ²	0.10	See Remark	Negative	Negative	Negative
Conclusion				Pass	Pass	Pass

Remark:

Colorimetric result(s) (µg/cm ²)	Qualitative result(s)
< 0.10	Negative
0.10 – 0.13	Inconclusive
> 0.13	Positive

- µg/cm² = Micrograms per square centimetre
- Negative = Absence of CrVI coating
- Positive indicates the presence of Cr (VI) on the tested areas and result be regarded as not comply with RoHS requirement.
- Negative indicates the absence of Cr (VI) on the tested areas and result be regarded as comply with RoHS requirement.

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PBBs&PBDEs content

Test Method: IEC 62321-6:2015

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				46	55	61
Monobromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Nonabromodiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Decabromodiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	/	1000	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	/	1000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)		
				67	69	70
Monobromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Nonabromodiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Decabromodiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	/	1000	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	/	1000	N.D.	N.D.	N.D.

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Photo(s) of specimen for reference



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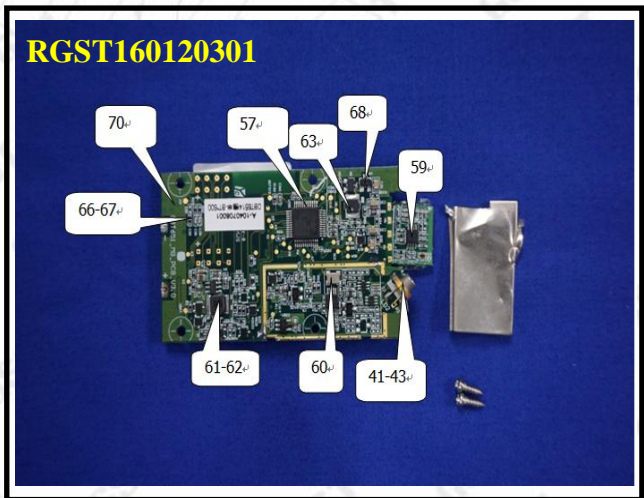
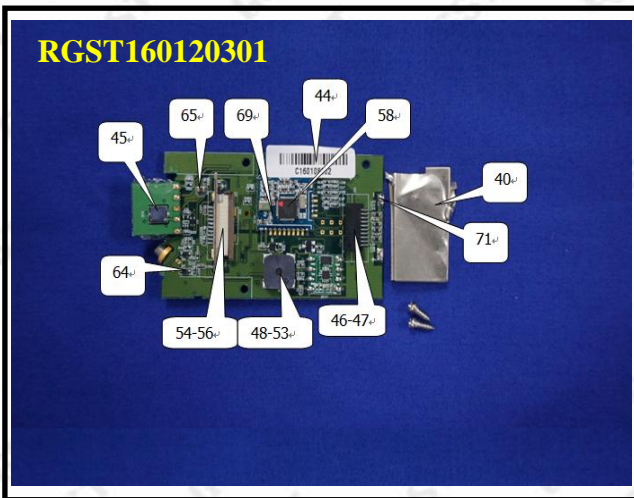
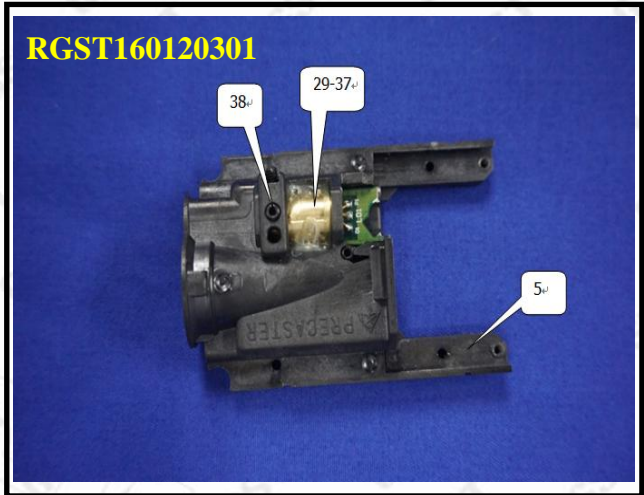
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GST authenticate the photo on original report only

Note:

- mg/kg=milligram per kilogram
- N.D. =Not Detected (<MDL)
- MDL=Method Detection Limit

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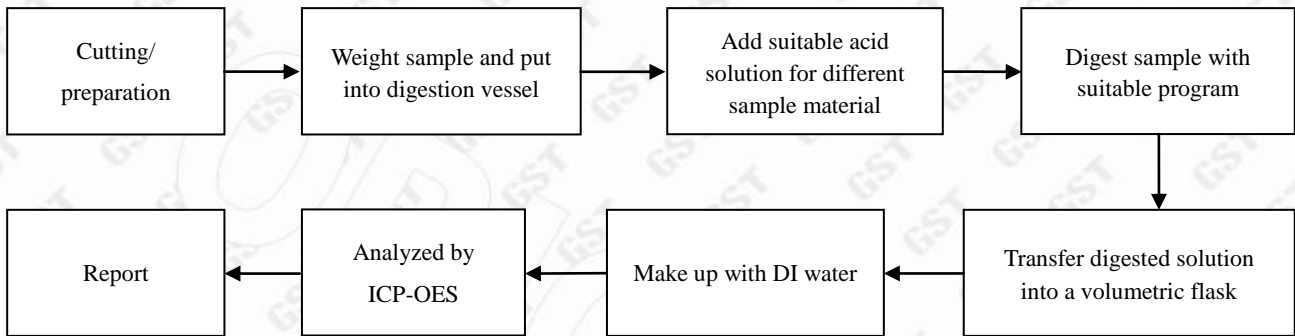
Report No.: RGST160120301

Date: Jan 27, 2016

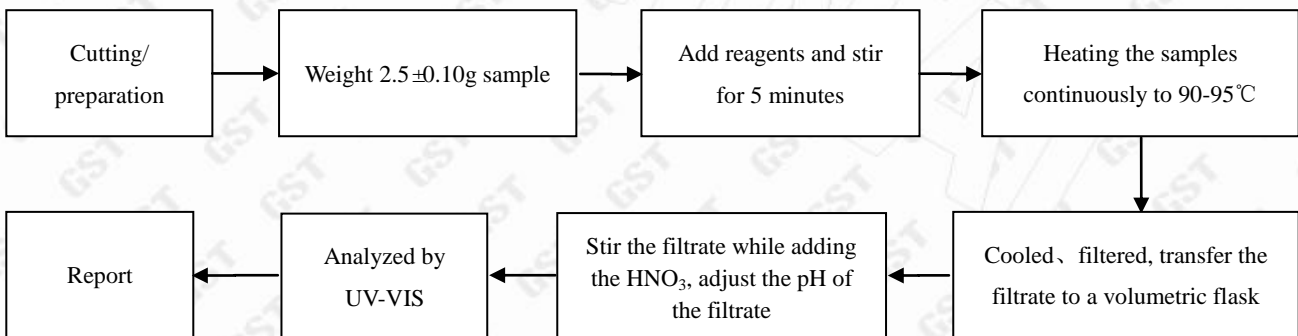
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Appendix

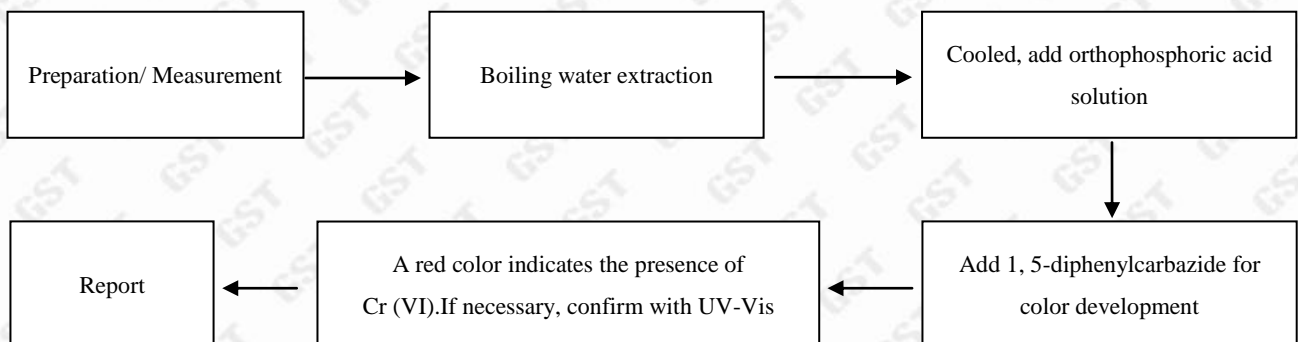
1. Test flowchart for Pb content:



2. Test flowchart for Cr⁶⁺ content in non-metallic material:



3. Test flowchart for Cr⁶⁺ content in metallic material:



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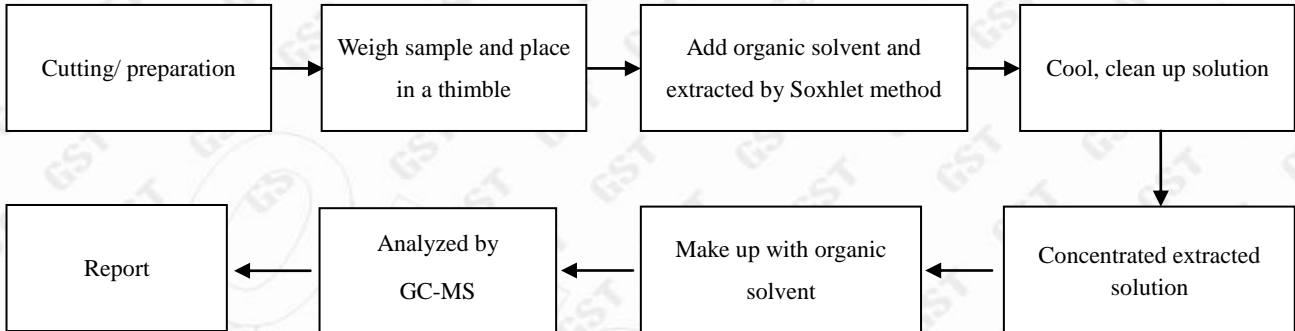
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4. Test flowchart for PBBs & PBDEs content:



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