

## Test Report

No. CKGEC1500014301

Date: 22 Jan 2015

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LESHAN RADIO CO.,LTD.

287 WEST PEOPLE ROAD, LESHAN, SICHUAN, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Small Signal SMD(Halogen free)

SGS Job No. : 15902230 - CQ

Model No. : SOT-23

Client Ref. Info. : SC-70;SC-70D;SC-74;SC-88;SC-88A;SC-89;SOD-123;SOD-323;SOD-523;SOD-723;SOD-923;SOD-882;SOT-1123; SOT-23D;SOT-723;SOT-883;TSOP-5/6

Date of Sample Received : 14 Jan 2015

Testing Period : 14 Jan 2015 - 22 Jan 2015

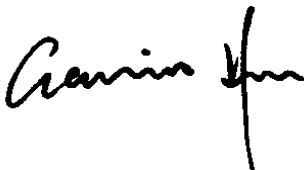
Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Chongqing Branch



Gavin Hu  
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CKG15-000143.001	Said to be"Small Signal SMD(Halogen free)"

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**RoHS Directive 2011/65/EU**

- Test Method :
- (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
  - (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
  - (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
  - (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
  - (5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

### Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

### Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	414
Iodine (I)	mg/kg	50	ND

### Organic-tin compounds

Test Method : With reference to ISO 17353: 2004, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl tin (DBT)	mg/kg	0.02	ND
Diocetyl tin (DOT)	mg/kg	0.02	ND
Tributyl tin (TBT)	mg/kg	0.02	ND
Triphenyl tin (TPHt)	mg/kg	0.02	ND

### PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method : With reference to US EPA Method 3550C: 2007, analysis was performed by HPLC-MS.



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctane Sulfonates (PFOS) and related Acid, Metal Salt and Amide	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA)	mg/kg	10	ND

### Notes :

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

(1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.

(2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m<sup>2</sup> of the coated material.

### Polynuclear Aromatic Hydrocarbons (PAHs)

Test Method : With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Naphthalene(NAP)	mg/kg	0.1	ND
Acenaphthylene(ANY)	mg/kg	0.1	ND
Acenaphthene(ANA)	mg/kg	0.1	ND
Fluorene(FLU)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF) + Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND



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Test Item(s)	Unit	MDL	001
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Sum of 18 PAHs	mg/kg	-	ND

### ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo(a)pyrene (mg/kg)	<0.2**	1	20
Sum of 18 PAH (mg/kg)*	<0.2**	10	200

#### Notes:

- \* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs
- \*\* = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

### Polychlorinated Terphenyls (PCTs)

Test Method : With reference to US EPA 8082A: 2007, analysis was performed by GC-MS

Test Item(s)	Unit	MDL	001
Aroclor 5432	mg/kg	5	ND
Aroclor 5442	mg/kg	5	ND
Aroclor 5460	mg/kg	5	ND

Notes :



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- (1) PCTs Reference Information: Entry 1 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 89/677/EC) Shall not be placed on the market, or used:
- as substances,
  - In mixtures, including waste oils, or in equipment, in concentrations greater than 50 mg/kg (0,005 % by weight).
- Please refer to Regulation (EC) No 552/2009 to get more detail information

**Polychlorinated Biphenyls (PCBs)**

Test Method : With reference to US EPA 8082A: 2007, analysis was performed by GC-ECD/MS

Test Item(s)	CAS NO.	Unit	MDL	001
2.4.4'-Trichlorobiphenyl (PCB 28)	7012-37-5	mg/kg	0.5	ND
2.2'.5.5'-Tetrachloro-biphenyl (PCB 52)	35693-99-3	mg/kg	0.5	ND
2.2'.4.5.5'-Pentachloro-biphenyl (PCB 101)	37680-73-2	mg/kg	0.5	ND
2.3'.4.4'.5-Pentachlorobiphenyl (PCB 118)	31508-00-6	mg/kg	0.5	ND
2.2'3.4.4'.5'-Hexachloro-biphenyl (PCB 138)	35065-28-2	mg/kg	0.5	ND
2.2'.4.4'.5.5'-Hexachloro-biphenyl (PCB 153)	35065-27-1	mg/kg	0.5	ND
2.2'.3.4.4'.5.5'-Heptachlorobiphenyl (PCB 180)	35065-29-3	mg/kg	0.5	ND

**Benzotriazole UV Absorbant**

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
2-(3,5-Di-tert-butyl-2-hydroxyphenyl) benzotriazole (UV-320) (CAS No: 3846-71-7)	mg/kg	5	ND
2-(3',5'-Di-tert-butyl-2'-hydroxyphenyl)-5-chloro benzotriazole (UV-327) (CAS No: 3864-99-1)	mg/kg	5	ND
2-(2'-hydroxy-3',5'-di-tert- amylphenyl) benzotriazole (UV-328) (CAS No: 25973-55-1)	mg/kg	5	ND
TinUVin 350 (UV-350) (CAS No: 36437-37-3)	mg/kg	5	ND

**Phthalate**

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	% (w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	% (w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	% (w/w)	0.003	ND

### Notes :

Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl Phthalates (DIBP) should be included in Annex II to the RoHS 2.0 Directive by European Commission according to amended draft of RoHS 2.0.

Remark: The test of PAHs,PCTs,PFOS,PFOA,PCBs,Organic-tin compounds,Benzotriazole UV Absorbant was/were subcontracted to SGS Guangzhou chemical lab (CANEC1500925901).



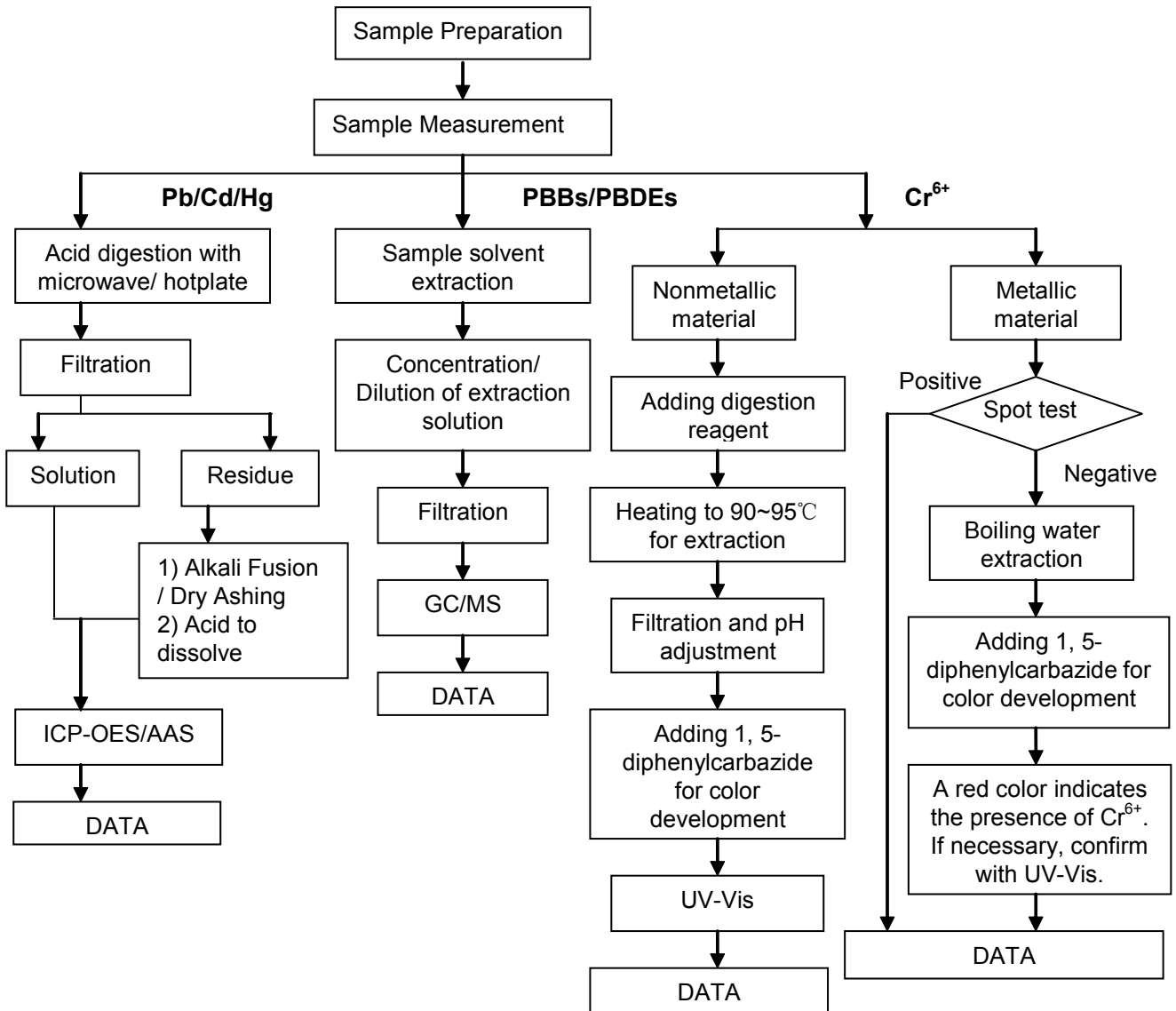
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ROHS Testing Flow Chart

- 1) Name of the person who made testing: Gavin Hu / Jerry Chen / Oliver Yue
- 2) Name of the person who in charge of testing: Lyra Cheng
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded)



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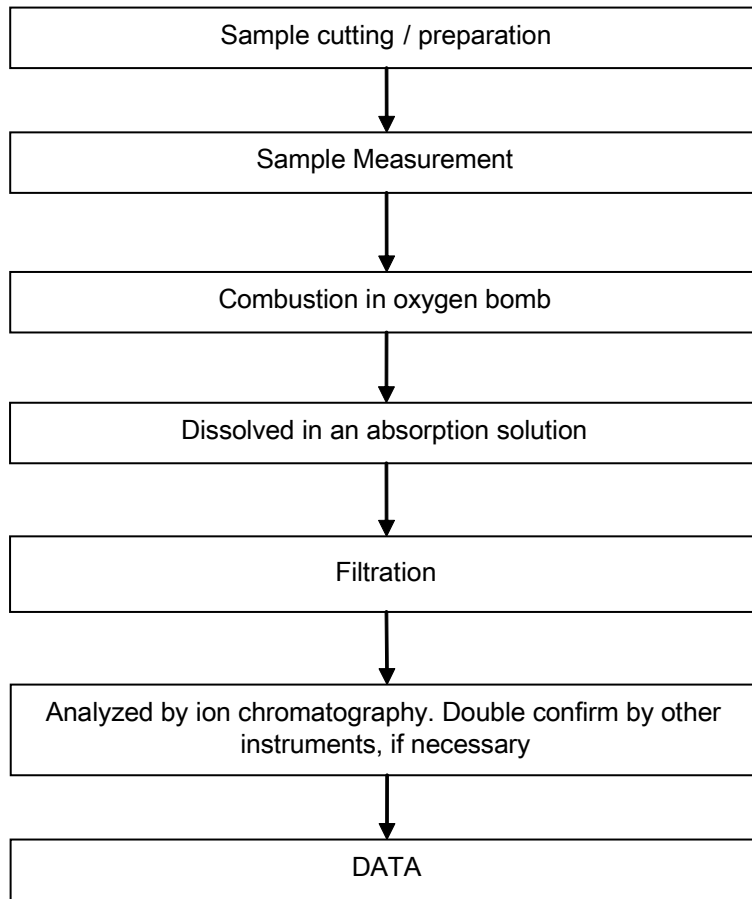
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**Halogen Testing Flow Chart**

- 1) Name of the person who made testing: Gavin Hu / Oliver Yue / Dendi Yang
- 2) Name of the person who in charge of testing: Lyra Cheng



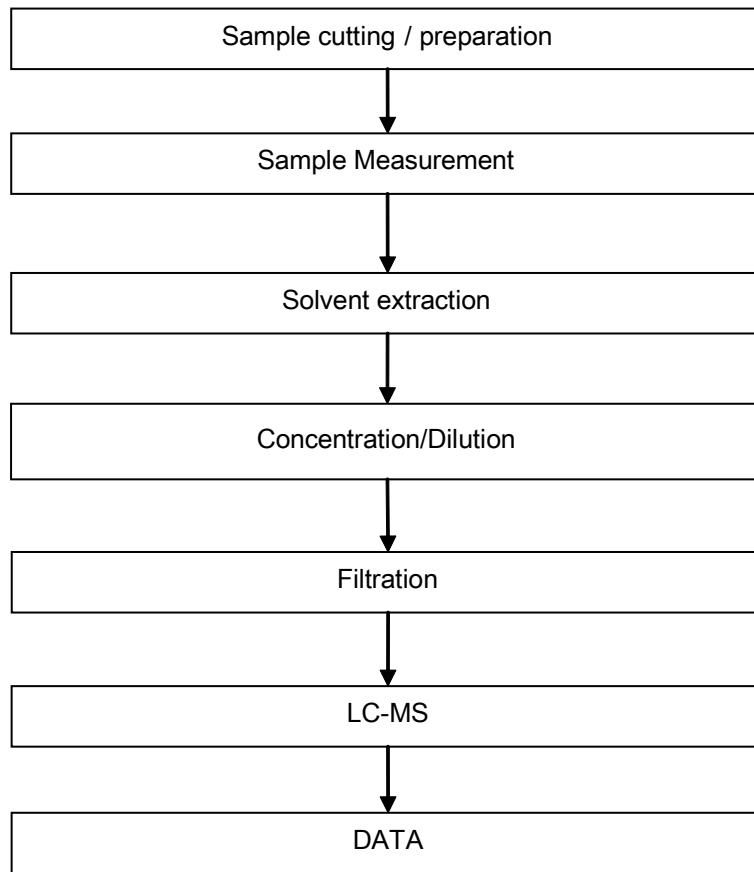
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**PFOA/PFOS Testing Flow Chart**

- 1) Name of the person who made testing: Zhihong Wang
- 2) Name of the person who in charge of testing: Cutey Yu



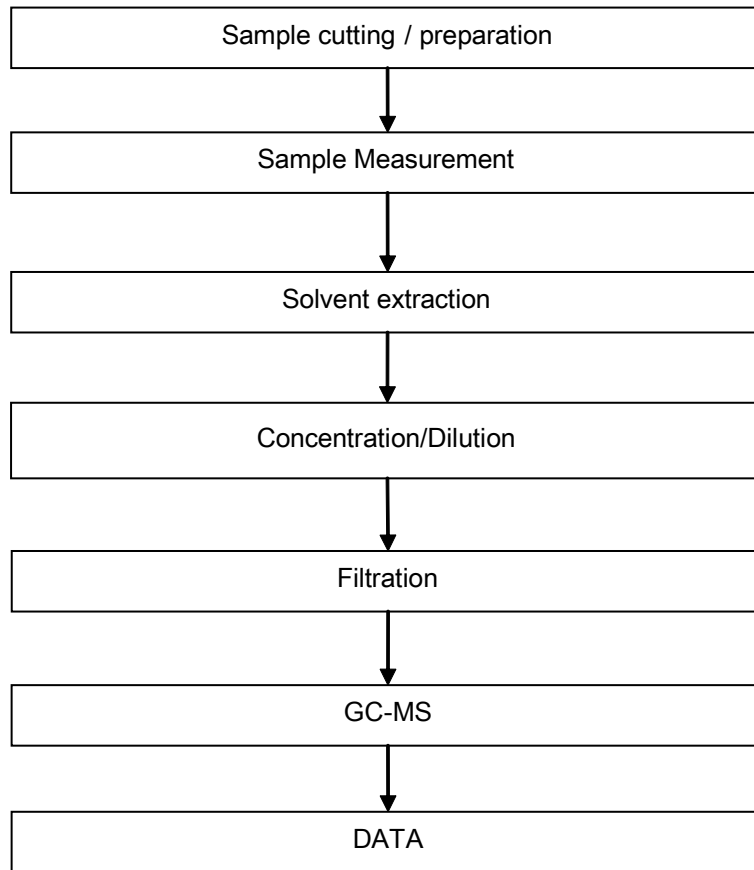
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**PAHs Testing Flow Chart**

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person who in charge of testing: Cutey Yu



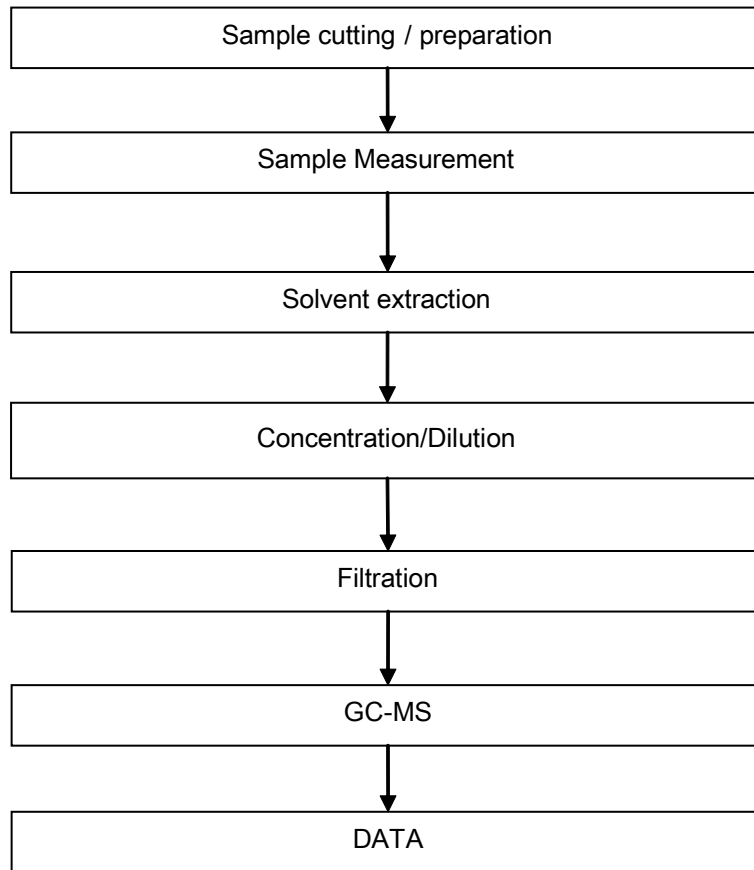
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**ATTACHMENTS**

**Phthalates Testing Flow Chart**

- 1) Name of the person who made testing: Jerry Chen
- 2) Name of the person who in charge of testing: Lyra Cheng



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