

Test Report

No.: NGBEC24002416305

Date: May 20, 2024

Page 1 of 19

Client Name: KONFOONG MATERIALS INTERNATIONAL CO.,LTD

Client Address: NO.198 ANSHAN RD .MINGBANG TECH & INDUSTRY PARK, YUYAO,ZHEJIANG ,P. R. C

Sample Name: Cu

The above sample(s) and information were provided by the client.

SGS Job No.: NBP24-002441

Sample Receiving Date: May 09, 2024

Testing Period: May 09, 2024 ~ May 20, 2024

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

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

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

Test Requirement	Conclusion
Alkanes C10-C13, chloro (short chain-chlorinated paraffins) (SCCPs)	See Results
Flame Retardants	See Results
Organic-Tin compounds	See Results
Polychlorinated Biphenyls (PCBs)	See Results
Polychlorinated Naphthalenes (PCNs)	See Results
Polychlorinated Terphenyls (PCTs)	See Results
Polyvinyl chloride (PVC)	See Results
Halogen	See Results
Elements	See Results
Perfluorinated Compounds (PFCs)	See Results
Phthalates	See Results

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

Hayley Hong

Hayley Hong
Approved Signatory

scan to see the report



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Test Report

No.: NGBEC24002416305

Date: May 20, 2024

Page 2 of 19

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutylphthalate (DIBP)	Pass

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB24-0024163-0001.C001	Copper metal

Remarks:

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

Alkanes C10-C13, chloro (short chain-chlorinated paraffins) (SCCPs)

Test Method: With reference to ISO 18219-1:2021, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Short Chain Chlorinated Paraffin(C ₁₀ -C ₁₃)(SCCP)	85535-84-8	mg/kg	50	ND

Flame Retardants

Test Method: With reference to US EPA 3550C:2007 and US EPA 8270D:2014, analysis was performed by GC-MS/HPLC-DAD-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Hexabromocyclododecane (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	5	ND

Organic-Tin compounds

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

Test Item(s)	Unit(s)	MDL	A1
Dibutyl tin(DBT)	mg/kg	0.5	ND
Tributyl tin(TBT)	mg/kg	0.5	ND
Diocetyl tin(DOT)	mg/kg	0.5	ND
Tri-n-propyltin(TPT)	mg/kg	0.5	ND
Bis(tributyltin) oxide (TBTO) ◆	mg/kg	0.5	ND

Notes:

- (1)◆ = TBTO is back calculated based on the worst-case scenario of TBT.



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Test Report

No.: NGBEC24002416305

Date: May 20, 2024

Page 3 of 19

Polychlorinated Biphenyls (PCBs)

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

Test Item(s)	CAS No.	Unit(s)	MDL	A1
2,2',5-Trichlorobiphenyl (PCB18)	37680-65-2	mg/kg	0.5	ND
2,4,4'-Trichlorobiphenyl (PCB28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachlorobiphenyl (PCB52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachlorobiphenyl (PCB101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-Pentachlorobiphenyl (PCB118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachlorobiphenyl (PCB153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB180)	35065-29-3	mg/kg	0.5	ND
Sum of PCBs	-	mg/kg	-	ND

Polychlorinated Naphthalenes (PCNs)

Test Method: With reference to US EPA 8081B:2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
2-Chlorinated Naphthalene	91-58-7	mg/kg	5	ND
1,4-Dichlorinated Naphthalene	1825-31-6	mg/kg	5	ND
1,5-Dichlorinated Naphthalene	1825-30-5	mg/kg	5	ND
1,2-Dichlorinated Naphthalene	2050-69-3	mg/kg	5	ND
1,8-Dichlorinated Naphthalene	2050-74-0	mg/kg	5	ND
1,2,3-Trichlorinated Naphthalene	50402-52-3	mg/kg	5	ND
1,2,3,4-Tetrachlorinated Naphthalene	20020-02-4	mg/kg	5	ND
1,2,3,4,6-Pentachlorinated Naphthalene	67922-26-3	mg/kg	5	ND
Octa-chlorinated Naphthalene	2234-13-1	mg/kg	5	ND

Polychlorinated Terphenyls (PCTs)

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

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Aroclor 5432	63496-31-1	mg/kg	5	ND
Aroclor 5442	12642-23-8	mg/kg	5	ND
Aroclor 5460	11126-42-4	mg/kg	5	ND

Polyvinyl chloride (PVC)

Test Method: With reference to SGS in house method, analysis was performed by FTIR/HATR.



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Test Report

No.: NGBEC24002416305

Date: May 20, 2024

Page 4 of 19

Test Item(s)	A1
Polyvinyl chloride (PVC)	Negative

Notes:

- (1) Negative=Undetectable, Positive=Detectable
 (2) The test was subcontracted to SGS Shanghai chemical lab.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Fluorine(F)	14762-94-8	mg/kg	20	ND
Chlorine(Cl)	22537-15-1	mg/kg	50	ND
Bromine(Br)	10097-32-2	mg/kg	50	ND
Iodine(I)	14362-44-8	mg/kg	50	ND

Elements

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Arsenic(As)	7440-38-2	mg/kg	10	ND
Beryllium(Be)	7440-86-3	mg/kg	5	ND
Antimony(Sb)	7440-36-0	mg/kg	10	ND

Perfluorinated Compounds (PFCs)

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Perfluorooctane sulfonates (PFOS)^	1763-23-1	mg/kg	0.01	ND
Perfluorooctanoic acid (PFOA)+	-	mg/kg	0.01	ND

Notes:

- (1) ^PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-Na (CAS No.: 4021-47-0), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7).
 (2) +PFOA refer to its salts/derivative including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1).

Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.01	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND



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Test Report

No.: NGBEC24002416305

Date: May 20, 2024

Page 5 of 19

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutylphthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	7440-43-9	100	mg/kg	2	ND
Lead(Pb)	7439-92-1	1000	mg/kg	2	ND
Mercury(Hg)	7439-97-6	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	-	µg/cm ²	0.10	ND
Polybromobiphenyl (PBBs)	-	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	002113-57-7	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	000092-86-4	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	059080-33-0	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	060044-24-8	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	059080-39-6	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	059080-40-9	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	067733-52-2	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	027858-07-7	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	069278-62-2	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	013654-09-6	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	-	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	101-55-3	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	2050-47-7	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	147217-80-9	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	93703-48-1	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	182677-28-7	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	189084-67-1	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	337513-72-1	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	63387-28-0	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	1163-19-5	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	84-74-2	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	84-69-5	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The



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Test Report

No.: NGBEC24002416305

Date: May 20, 2024

Page 6 of 19

- coating is considered a non-Cr(VI) based coating.
- c. The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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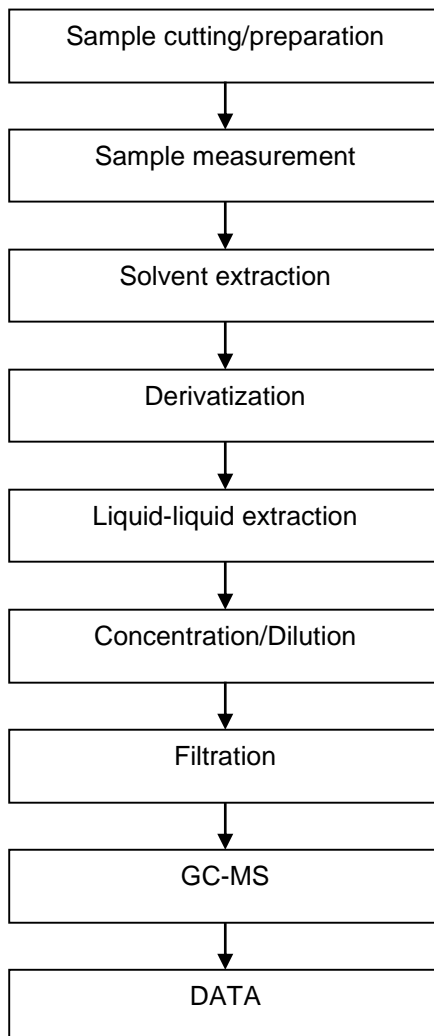
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No.: NGBEC24002416305

Date: May 20, 2024

Page 7 of 19

Organotin Testing Flow Chart



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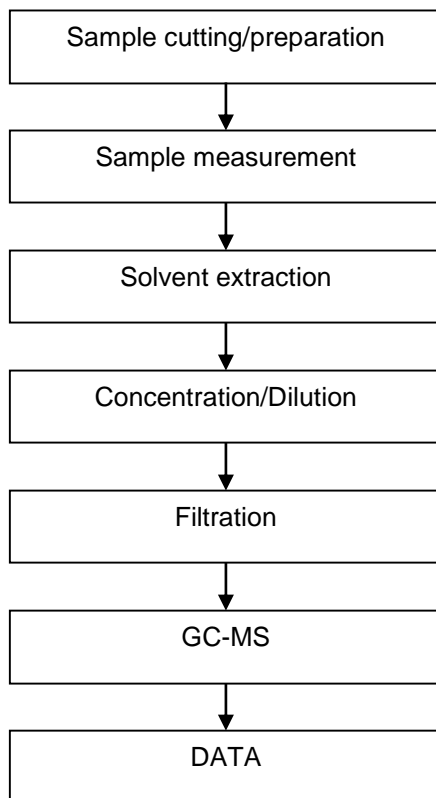
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PCB Testing Flow Chart



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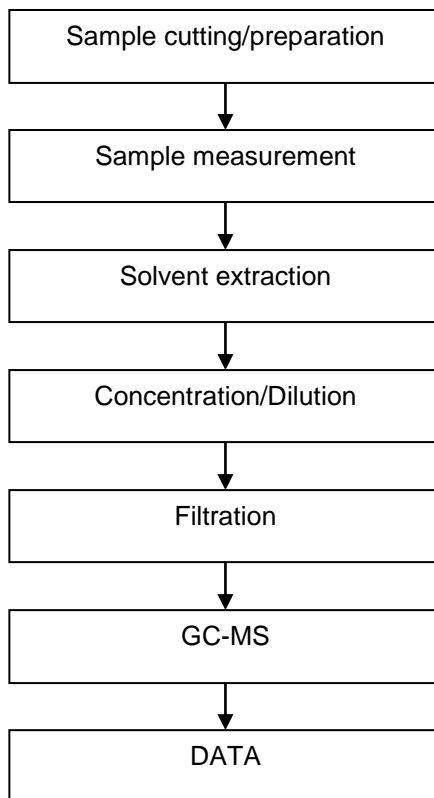
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Page 9 of 19

PCN Testing Flow Chart



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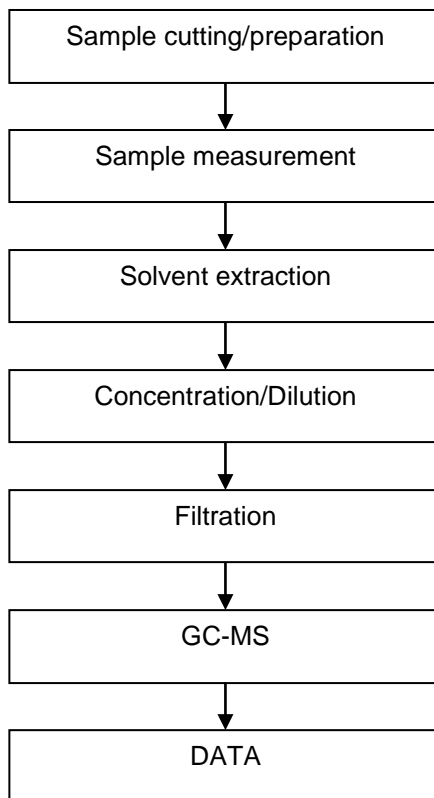
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Page 10 of 19

PCT Testing Flow Chart



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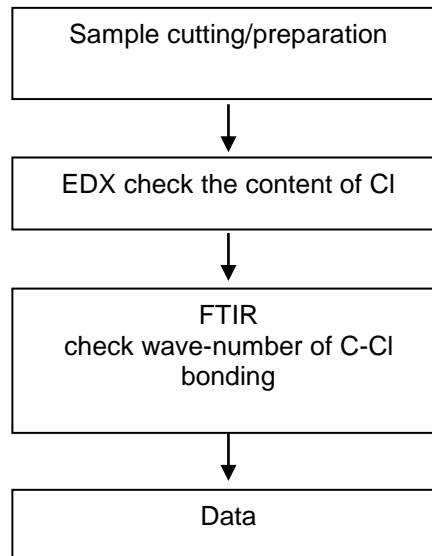
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Page 11 of 19

PVC Testing Flow Chart



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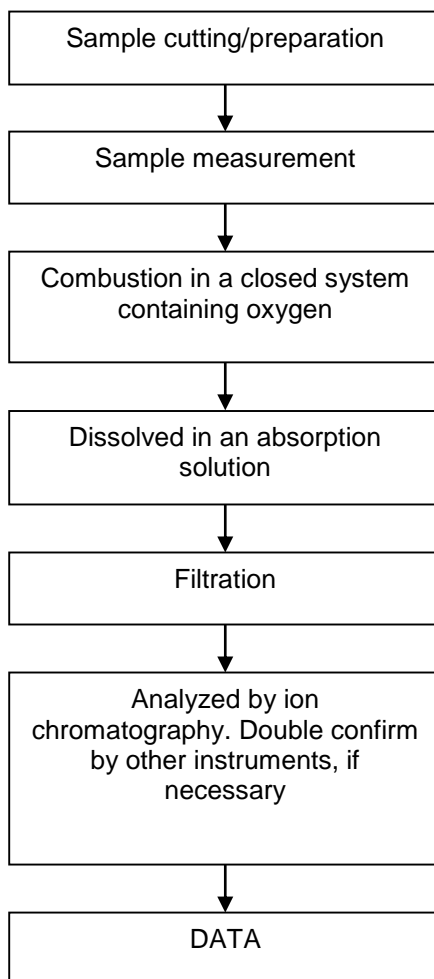
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Page 12 of 19

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Halogen Testing Flow Chart



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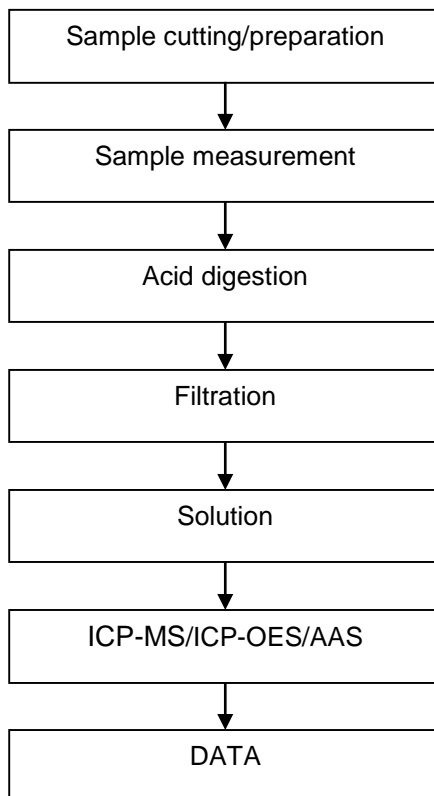
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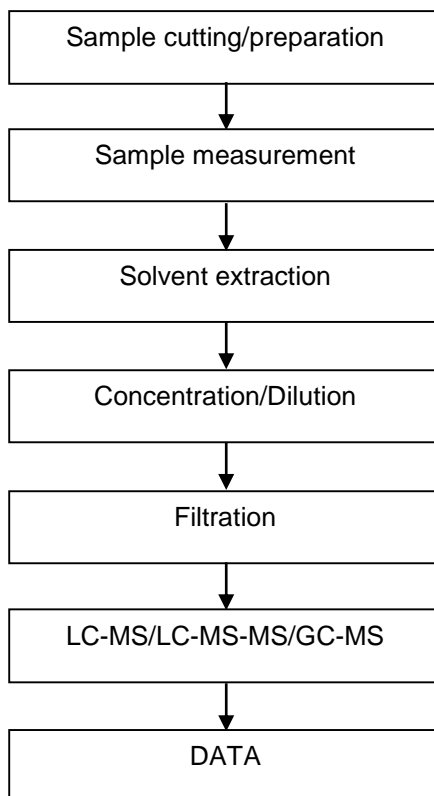
Elements Testing Flow Chart



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PFASs/ PFOS/PFOA Testing Flow Chart



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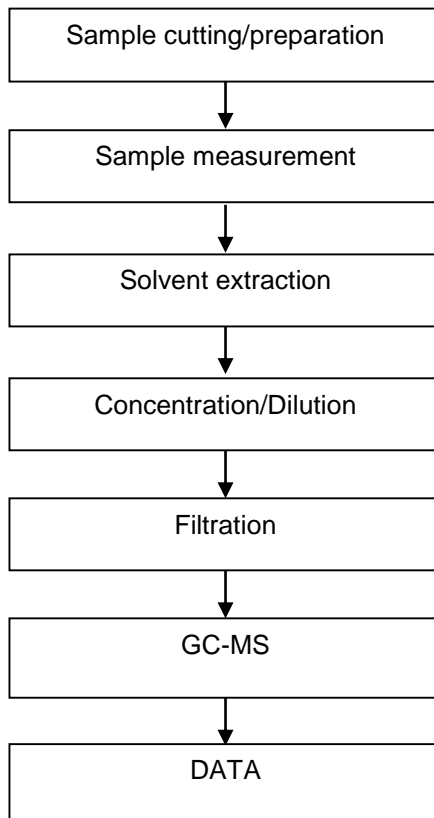
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Page 15 of 19

Phthalates Testing Flow Chart



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Page 16 of 19

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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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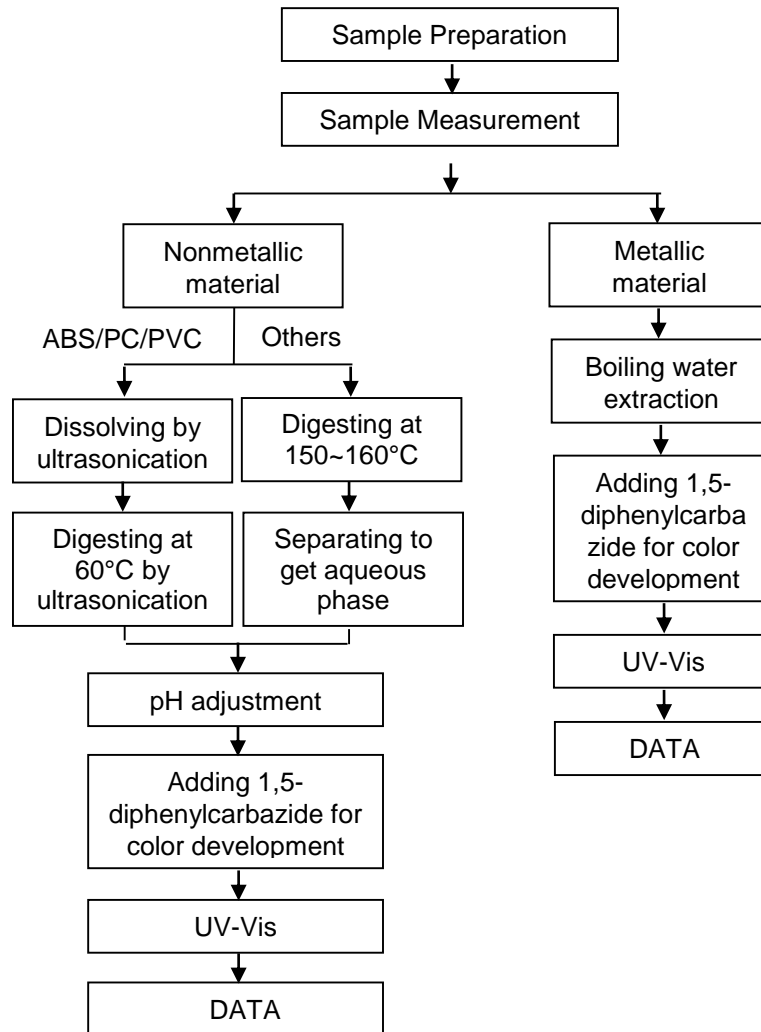
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Page 17 of 19

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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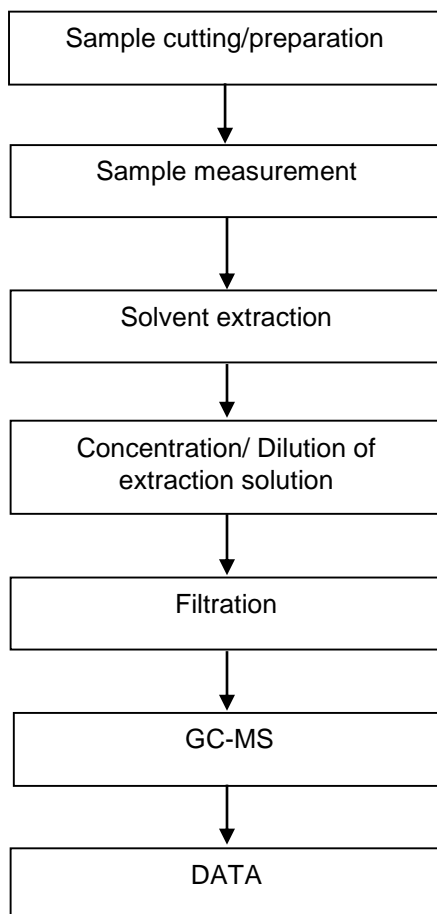
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Page 18 of 19

PBB/PBDE Testing Flow Chart



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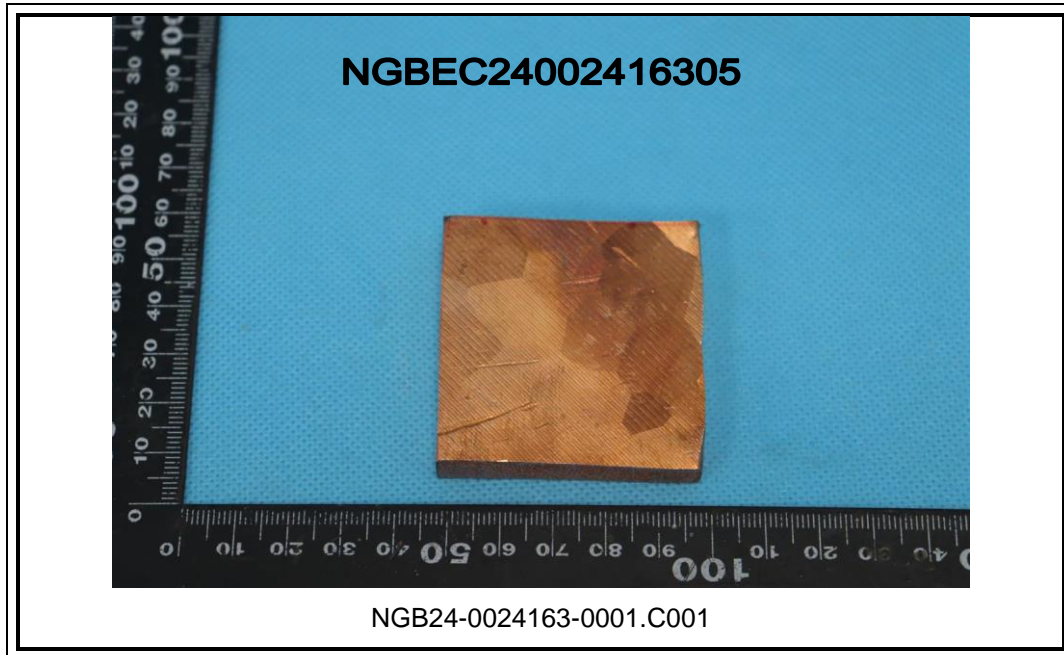
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