

## Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 1 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : MACDERMID ALPHA ELECTRONICS SOLUTIONS SINGAPORE

Sample Name : Atrox

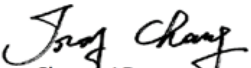
Style/Item No. : D800HT1V

Sample Receiving Date : 06-Apr-2023

Testing Period : 06-Apr-2023 to 14-Apr-2023

**Test Requested** : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).  
(2) Please refer to next pages for the other item(s).

**Test Results** : Please refer to following pages.

  
Troy Chang / Department Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



PIN CODE: EF65E1D4

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 2 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

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## Test Part Description

No.1 : GRAY PASTE

## Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Lead (Pb)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.
Monobromobiphenyl	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.
Dibromobiphenyl		mg/kg	5	n.d.
Tribromobiphenyl		mg/kg	5	n.d.
Tetrabromobiphenyl		mg/kg	5	n.d.
Pentabromobiphenyl		mg/kg	5	n.d.
Hexabromobiphenyl		mg/kg	5	n.d.
Heptabromobiphenyl		mg/kg	5	n.d.
Octabromobiphenyl		mg/kg	5	n.d.
Nonabromobiphenyl		mg/kg	5	n.d.
Decabromobiphenyl		mg/kg	5	n.d.
<b>Sum of PBBs</b>		mg/kg	-	n.d.
Monobromodiphenyl ether		mg/kg	5	n.d.
Dibromodiphenyl ether		mg/kg	5	n.d.
Tribromodiphenyl ether		mg/kg	5	n.d.
Tetrabromodiphenyl ether		mg/kg	5	n.d.
Pentabromodiphenyl ether		mg/kg	5	n.d.
Hexabromodiphenyl ether		mg/kg	5	n.d.
Heptabromodiphenyl ether		mg/kg	5	n.d.
Octabromodiphenyl ether		mg/kg	5	n.d.
Nonabromodiphenyl ether		mg/kg	5	n.d.
Decabromodiphenyl ether		mg/kg	5	n.d.
<b>Sum of PBDEs</b>	mg/kg	-	n.d.	

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 3 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

Test Item(s)	Method	Unit	MDL	Result
				No.1
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Diisobutyl phthalate (DIBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321: 2008, analysis was performed by GC/MS.	mg/kg	5	n.d.
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.
Iodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
PFOA and its salts (CAS No.: 335-67-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 4 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

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Test Item(s)	Method	Unit	MDL	Result
				No.1
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.
Polychlorinated naphthalene (PCNs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.
Polychlorinated terphenyls (PCTs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.
Tributyl tin (TBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.
Bis(tributyltin) oxide (TBTO) (CAS No.: 56-35-9)	Calculated from the result of Tributyl Tin (TBT).	mg/kg	0.03▲	n.d.
Triphenyl tin (TPT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.
Dibutyl tin (DBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.
Dioctyl tin (DOT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	Negative
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Di-ethyl phthalate (DEP) (CAS No.: 84-66-2)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Dimethyl phthalate (DMP) (CAS No.: 131-11-3)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Perfluorobutane Acid (PFBA) (CAS No.: 375-22-4)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorobutane Sulfonate (PFBS) (CAS No.: 375-73-5)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 5 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

Test Item(s)	Method	Unit	MDL	Result
				No.1
Perfluorobutane Sulfonate K-salt (PFBS-K) (CAS No.: 29420-49-3)	Calculated from the result of PFBS.	mg/kg	0.01▲	n.d.
Perfluorobutane sulfonyl fluoride (PFBS-F) (CAS No.: 375-72-4)	Calculated from the result of PFBS.	mg/kg	0.01▲	n.d.
Tetraethylammonium perfluorobutanesulfonate (PFBS-N(CH <sub>3</sub> CH <sub>2</sub> ) <sub>4</sub> ) (CAS No.: 25628-08-4)	Calculated from the result of PFBS.	mg/kg	0.01▲	n.d.
Perfluoropentane Acid (PFPA) (CAS No.: 2706-90-3)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorohexane Acid (PFHxA) (CAS No.: 307-24-4)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Ammonium perfluorohexanoate (PFHxA-NH <sub>4</sub> ) (CAS No.: 21615-47-4)	Calculated from the result of PFHxA.	mg/kg	0.01▲	n.d.
Perfluorohexyl iodide (PFHxI) (CAS No.: 355-43-1)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	1	n.d.
Perfluorohexyl ethylene (PFHxE) (CAS No.: 25291-17-2)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	1	n.d.
1H,1H,2H,2H-Perfluorooctyl iodide (6_2FOI) (CAS No.: 2043-57-4)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
1H,1H,2H,2H-Perfluoro-1-octanol (6:2FTOH) (CAS No.: 647-42-7)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
1H,1H,2H,2H-Perfluorooctylacrylate (6:2FTA) (CAS No.: 17527-29-6)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC) (CAS No.: 2144-53-8)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 6 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

Test Item(s)	Method	Unit	MDL	Result
				No.1
1H,1H,2H,2H-Perfluorooctanesulphonic Acid (H4PFOS 6:2) (CAS No.: 27619-97-2)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorohexane-1-sulphonic acid and its salts (PFHxS) (CAS No.: 355-46-4)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorohexanesulfonate NA-salt (PFHxS-Na) (CAS No.: 82382-12-5)	Calculated from the result of PFHxS.	mg/kg	0.01▲	n.d.
Perfluorohexanesulfonate K-salt (PFHxS-K) (CAS No.: 3871-99-6)	Calculated from the result of PFHxS.	mg/kg	0.01▲	n.d.
Perfluorohexanesulfonate ammonium salt (PFHxS-NH4) (CAS No.: 68259-08-5)	Calculated from the result of PFHxS.	mg/kg	0.01▲	n.d.
Perfluorohexanesulfonate Li-salt (PFHxS-Li) (CAS No.: 55120-77-9)	Calculated from the result of PFHxS.	mg/kg	0.01▲	n.d.
Perfluorohexanesulfonate Zn-salt (PFHxS-Zn) (CAS No.: 70136-72-0)	Calculated from the result of PFHxS.	mg/kg	0.01▲	n.d.
Perfluorohexanesulfonate sulfonyl fluoride (PFHxS-F) (CAS No.: 423-50-7)	Calculated from the result of PFHxS.	mg/kg	0.01▲	n.d.
Perfluoroheptane Acid (PFHpA) (CAS No.: 375-85-9)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
7H-Dodecanefluoroheptane Acid (HPFHpA) (CAS No.: 1546-95-8)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluoroheptane Sulfonate (PFHpS) (CAS No.: 375-92-8)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluoroheptanesulfonate Na-salt (PFHpS-Na) (CAS No.: 21934-50-9)	Calculated from the result of PFHpS.	mg/kg	0.01▲	n.d.
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 7 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

Test Item(s)	Method	Unit	MDL	Result
				No.1
Potassium Perfluorooctanesulfonate (PFOS-K) (CAS No.: 2795-39-3)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) (CAS No.: 29457-72-5)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4) (CAS No.: 29081-56-9)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2) (CAS No.: 70225-14-8)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C2H5)4) (CAS No.: 56773-42-3)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA) (CAS No.: 251099-16-8)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
Perfluorooctane sulfonyl fluoride (POSF) (CAS No.: 307-35-7)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg) (CAS No.: 91036-71-4)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
Perfluorooctanesulfonic acid, sodium salt (PFOS-Na) (CAS No.: 4021-47-0)	Calculated from the result of PFOS.	mg/kg	0.01▲	n.d.
N-ethylperfluoro-1-octanesulfonamide (EtFOSA) (CAS No.: 4151-50-2)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
N-Methyl-Perfluorooctanesulfonamide (N-Me-FOSA) (CAS No.: 31506-32-8)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
N-Ethyl-Perfluorooctanesulfonamidoethanol (N-Et-FOSE alcohol) (CAS No.: 1691-99-2)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 8 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

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				No.1
N-Methyl-Perfluorooctanesulfonamidoethanol (N-Me-FOSE alcohol) (CAS No.: 24448-09-7)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorooctanesulfonamide (PFOA) (CAS No.: 754-91-6)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
PFOA and its salts (CAS No.: 335-67-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Sodium perfluorooctanoate (PFOA-Na) (CAS No.: 335-95-5)	Calculated from the result of PFOA.	mg/kg	0.01▲	n.d.
Potassium perfluorooctanoate (PFOA-K) (CAS No.: 2395-00-8)	Calculated from the result of PFOA.	mg/kg	0.01▲	n.d.
Silver perfluorooctanoate (PFOA-Ag) (CAS No.: 335-93-3)	Calculated from the result of PFOA.	mg/kg	0.01▲	n.d.
Perfluorooctanoyl fluoride (PFOA-F) (CAS No.: 335-66-0)	Calculated from the result of PFOA.	mg/kg	0.01▲	n.d.
Ammonium pentadecafluorooctanoate (APFO) (CAS No.: 3825-26-1)	Calculated from the result of PFOA.	mg/kg	0.01▲	n.d.
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) (CAS No.: 39108-34-4)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Methyl perfluorooctanoate (Me-PFOA) (CAS No.: 376-27-2)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
Ethyl perfluorooctanoate (Et-PFOA) (CAS No.: 3108-24-5)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No.: 678-39-7)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) (CAS No.: 27905-45-9)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 9 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

Test Item(s)	Method	Unit	MDL	Result
				No.1
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) (CAS No.: 1996-88-9)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
Perfluoro-1-iodooctane (PFOI) (CAS No.: 507-63-1)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
Perfluorononan-1-oic acid (PFNA) (CAS No.: 375-95-1)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorononanoate Na-Salt (PFNA-Na) (CAS No.: 21049-39-8)	Calculated from the result of PFNA.	mg/kg	0.01▲	n.d.
Perfluorononanoate ammonium salt (APFN) (CAS No.: 4149-60-4)	Calculated from the result of PFNA.	mg/kg	0.01▲	n.d.
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA) (CAS No.: 172155-07-6)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Nonadecafluorodecanoic acid (PFDA) (CAS No.: 335-76-2)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorodecanoate Na-salt (PFDA-Na) (CAS No.: 3830-45-3)	Calculated from the result of PFDA.	mg/kg	0.01▲	n.d.
Perfluorodecanoate ammonium salt (APFDA) (CAS No.: 3108-42-7)	Calculated from the result of PFDA.	mg/kg	0.01▲	n.d.
Henicosafuoroundecanoic acid (PFUnDA) (CAS No.: 2058-94-8)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Tricosafuorododecanoic acid (PFDoDA) (CAS No.: 307-55-1)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Ammonium Perfluorododecanoate (APFDoDA) (CAS No.: 3793-74-6)	Calculated from the result of PFDoDA.	mg/kg	0.01▲	n.d.
Perfluorodecane Sulfonate (PFDS) (CAS No.: 126105-34-8/ 335-77-3)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 10 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

Test Item(s)	Method	Unit	MDL	Result
				No.1
Perfluorodecanesulfonate Na-salt (PFDS-Na) (CAS No.: 2806-15-7)	Calculated from the result of PFDS.	mg/kg	0.01▲	n.d.
Perfluorodecanesulfonate K-salt (PFDS-K) (CAS No.: 2806-16-8)	Calculated from the result of PFDS.	mg/kg	0.01▲	n.d.
Perfluoroaliphatic Dean-sulfonate salt of NH4 (PFDS-NH4) (CAS No.: 67906-42-7)	Calculated from the result of PFDS.	mg/kg	0.01▲	n.d.
Pentacosfluorotridecanoic acid (PFTTrDA) (CAS No.: 72629-94-8)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Heptacosfluorotetradecanoic acid (PFTDA) (CAS No.: 376-06-7)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Pentadecanoic acid, nonacosfluoro (PFPeDA,C15) (CAS No.: 141074-63-7)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Hexadecanoic acid, hentriacontfluoro (PFHxDA,C16) (CAS No.: 67905-19-5)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Octadecanoic acid, pentatriacontfluoro (PFODA,C18) (CAS No.: 16517-11-6)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
1H,1H,2H,2H-Perfluorododecylacrylate (10:2FTA) (CAS No.: 17741-60-5)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2FTOH) (CAS No.: 865-86-1)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
2H,2H-Perfluorodecane Acid (H2PFDA) (CAS No.: 27854-31-5)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
2H,2H,3H,3H-Perfluoroundecanoic Acid (4HPFUnA) (CAS No.: 34598-33-9)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 11 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

Test Item(s)	Method	Unit	MDL	Result
				No.1
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2FTOH) (CAS No.: 2043-47-2)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
1H,1H,2H,2H-Perfluorodecyl iodide (8_2 FTI) (CAS No.: 2043-53-0)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid (HFPO-DA) (CAS No.: 13252-13-6)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2 FTS) (CAS No.: 757124-72-4)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorooctane sulfonamidoacetic acid (FOSAA) (CAS No.: 2806-24-8)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) (CAS No.: 2355-31-9)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) (CAS No.: 2991-50-6)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluoropentane sulfonic acid (PFPeS) (CAS No.: 2706-91-4)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
2-Perfluorohexyl ethanoic acid (6:2 FTCA) (CAS No.: 53826-12-3)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
3-Perfluoropentyl propanoic acid (5:3 FTCA) (CAS No.: 914637-49-3)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluorononane sulfonic acid (PFNS) (CAS No.: 68259-12-1)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Perfluoroundecane sulfonic acid (PFUnDS) (CAS No.: 749786-16-1)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

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# Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 12 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

Test Item(s)	Method	Unit	MDL	Result
				No.1
Perfluorododecane sulfonic acid (PFDoDS) (CAS No.: 79780-39-5)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate (8_2diPAP) (CAS No.: 678-41-1)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

**Note :**

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected ( Less than MDL)
4. "-" = Not Regulated
5. \*\*= Qualitative analysis (No Unit)
6. Negative = Undetectable ; Positive = Detectable
7. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula :  $AX = A \times F$

AX	A	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.0276

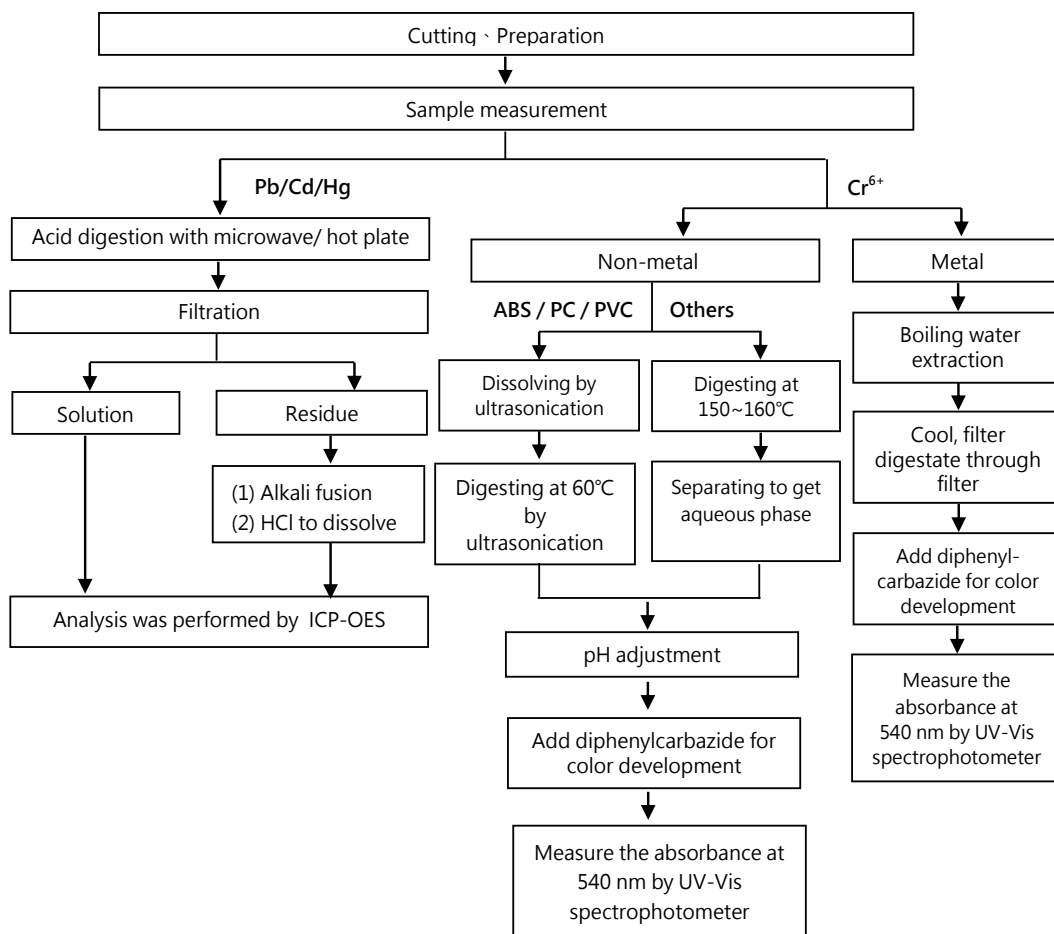
Parameter Conversion Table : [https://eecloud.sgs.com/Region\\_TW/DocDownload.aspx?name=Others](https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others)

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## Analytical flow chart of heavy metal

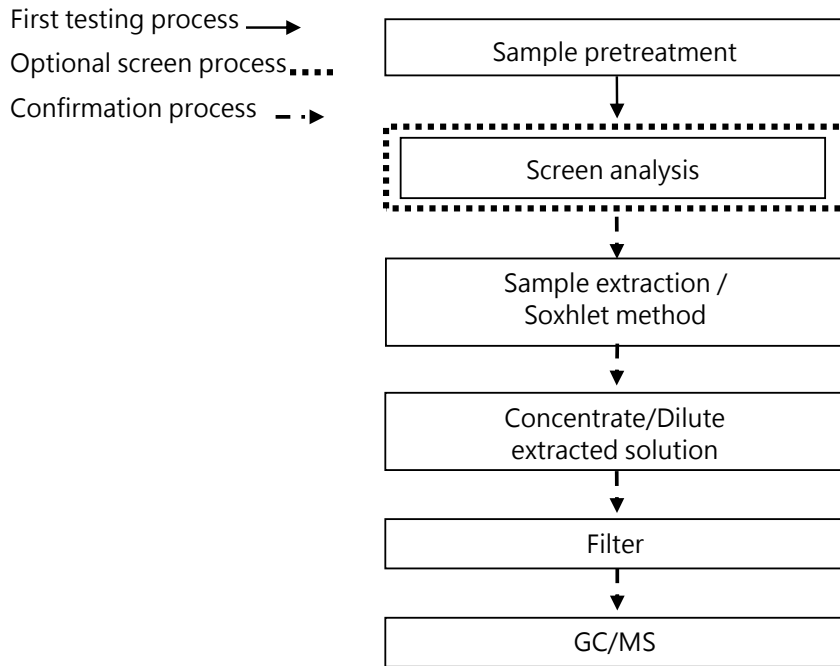
These samples were dissolved totally by pre-conditioning method according to below flow chart.

( Cr<sup>6+</sup> test method excluded )



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### Analytical flow chart – PBBs / PBDEs



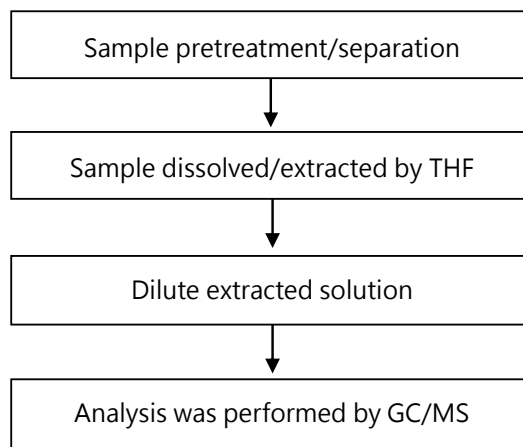
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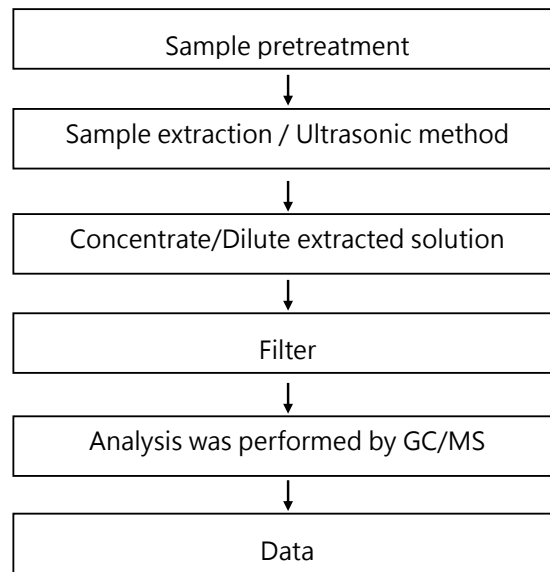
## Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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### Analytical flow chart - HBCDD



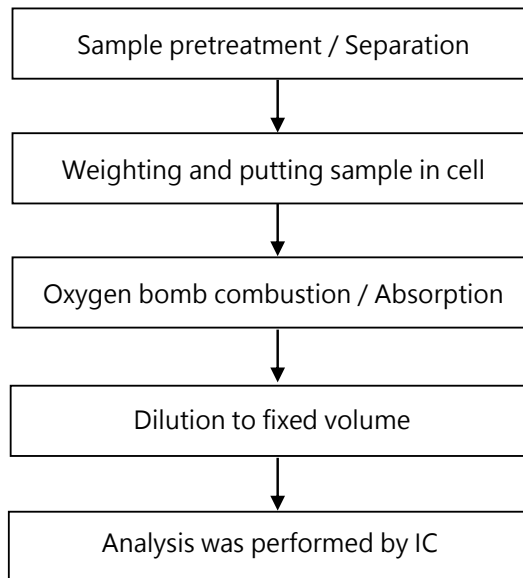
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NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

### Analytical flow chart - Halogen

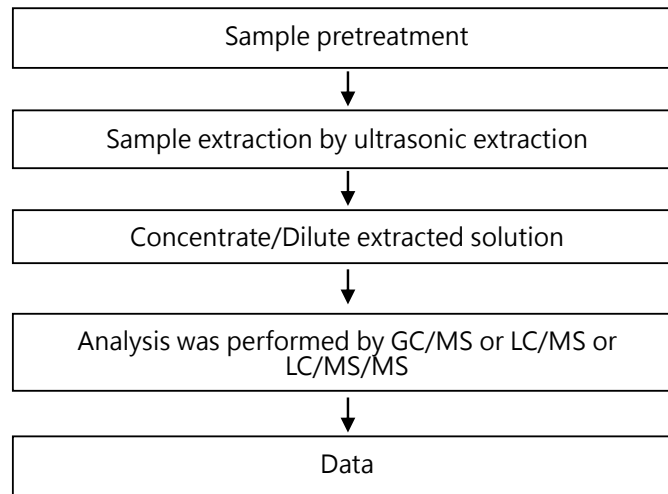


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ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

## Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



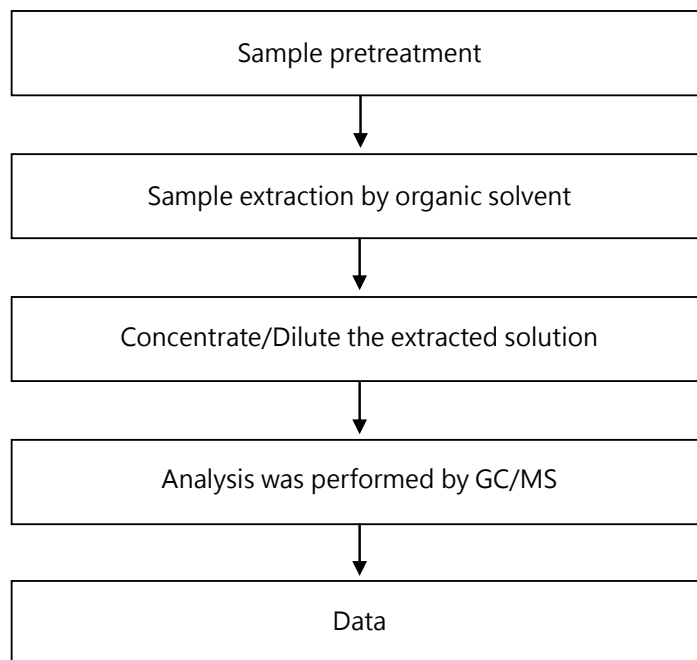
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ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

### Analytical flow chart

\* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT

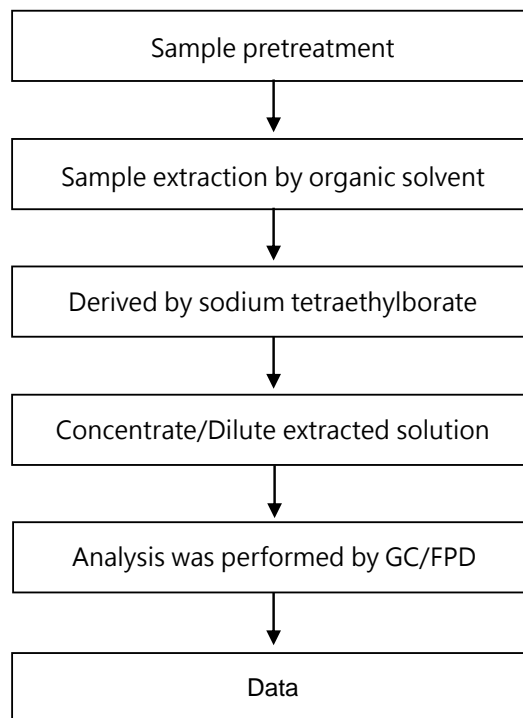


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ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

### Analytical flow chart - Organic-Tin

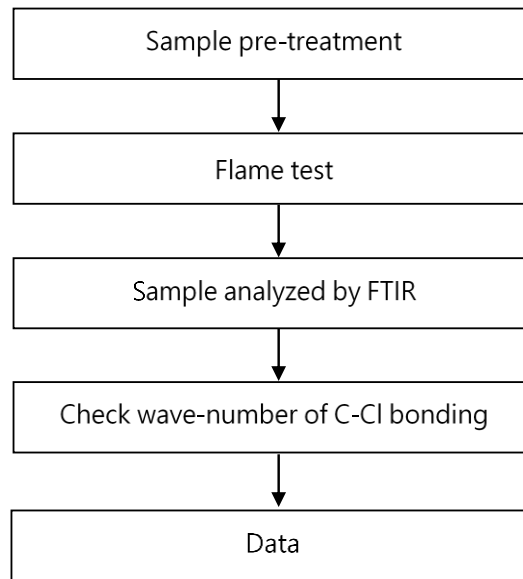


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ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

## Analysis flow chart - PVC

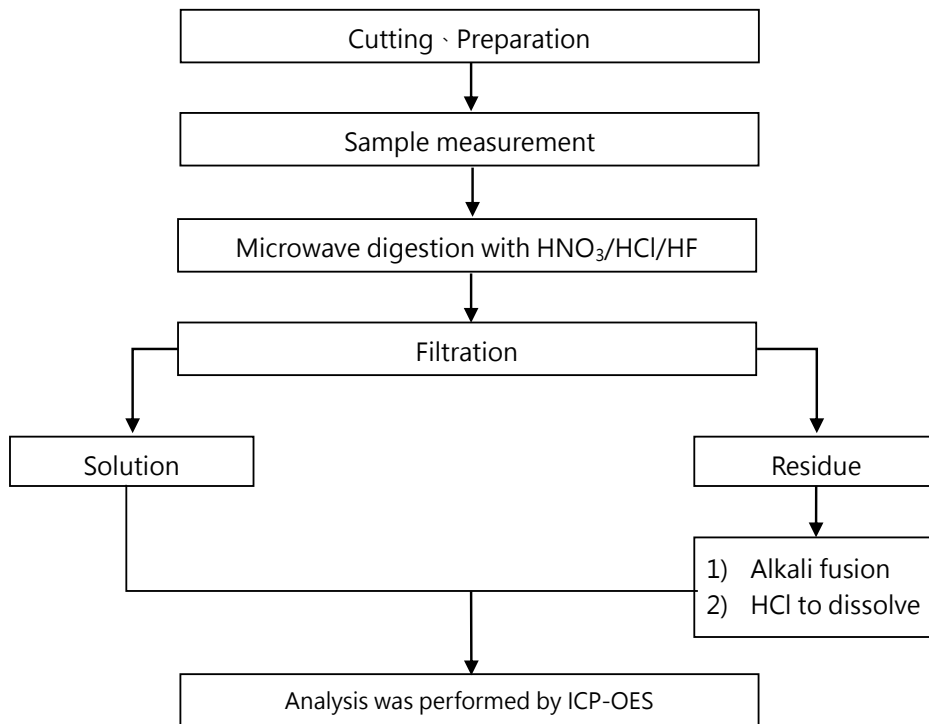


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### Analytical flow chart of elements (Heavy metal included)

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

【Reference method : US EPA 3051A 、 US EPA 3052】



\* US EPA 3051A method does not add HF.

## Test Report

No.: ETR23400253

Date: 14-Apr-2023

Page: 23 of 23

ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED

NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN

\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

### ETR23400253



\*\* End of Report \*\*

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