



(No.): ETR24900322

(Date): 13-Sep-2024

(Page): 1 of 22

(EVERLIGHT ELECTRONICS CO., LTD.)
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

| | |
|--------------------------------------|---|
| Type of Product | SMD DISPLAY |
| Supplier Company Name | EVERLIGHT |
| Address | NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN |
| Tel / Fax / Email | TEL:886-2685-6688 |
| | FAX:886-2685-6699 |
| | E-MAIL: lindawang@everlight.com |
| Contact Person | LI LING WANG |
| EVERLIGHT REPORT NO | SMD DISPLAY SERIES |
| | Sampling Product : SS406SURWA/S530-A4/S290-SGS-13-Sep-2024 |
| Product/component Sample description | PANEL DISPLAY COMPONENT |
| Quantity (numbers or weight) | 0.7047 g |
| EVERLIGHT P/N | SMD DISPLAY SERIES |
| | Sampling Product : SS406SURWA/S530-A4/S290 |
| Product Lot No | ZS24080510 |
| Country of Origin | CHINA |
| Sample preparation | CUTTING |
| Test Method | RoHS: IEC 62321, Halogen: BS EN 14582 |
| MDL | Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg |

(Sample Submitted By)

(EVERLIGHT ELECTRONICS CO., LTD.)

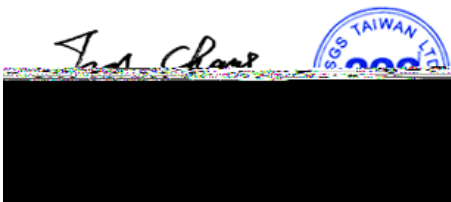
(Sample Receiving Date)

03-Sep-2024

(Testing Period)

03-Sep-2024 to 13-Sep-2024

(Please refer to following pages).



PIN CODE: 69B24C6C

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- (1)

RoHS 2011/65/EU Annex II

(EU) 2015/863

, DBP, BBP, DEHP, DIBP (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)

PAHs

(As specified by client, to test PAHs and other item(s).)
- (1)

DEHP, DIBP

RoHS 2011/65/EU Annex II

(EU) 2015/863

(Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)
- (2)

PAHs 3

(AfPS) GS

(Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3) Other consumer products as set by German Committee on Product Safety (AfPS) GS PAHs.)

No.1 (WHITE PLASTIC WITH GRAY PRINTED AND GLUE)

No.2 (BLACK PCB AND ALL COMPONENTS ON IT)

| (Cd) (Cadmium (Cd)) | IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | n.d. | 100 |
|---------------------|--|-------|---|------|------|------|
| (Pb) (Lead (Pb)) | IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.) | mg/kg | 2 | 3.92 | 11.2 | 1000 |

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(No.): ETR24900322

(Date): 13-Sep-2024

(Page): 3 of 22

(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

| (Hg) (Mercury (Hg)) | IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | n.d. | 1000 |
|-------------------------------------|--|-------|---|------|------|------|
| Cr(VI) (Hexavalent Chromium Cr(VI)) | IEC 62321-7-2: 2017 (With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.) | mg/kg | 8 | n.d. | n.d. | 1000 |
| (Monobromobiphenyl) | IEC 62321-6: 2015 / (With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | mg/kg | 5 | n.d. | n.d. | - |
| (Dibromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| (Tribromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| (Tetrabromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| (Pentabromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| (Hexabromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| (Heptabromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| (Octabromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| (Nonabromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| (Decabromobiphenyl) | | mg/kg | 5 | n.d. | n.d. | - |
| | | mg/kg | - | n.d. | n.d. | 1000 |
| (Monobromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Dibromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Tribromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Tetrabromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Pentabromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Hexabromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Heptabromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Octabromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Nonabromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| (Decabromodiphenyl ether) | | mg/kg | 5 | n.d. | n.d. | - |
| | | mg/kg | - | n.d. | n.d. | 1000 |

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| (BBP) (Butyl benzyl phthalate (BBP)) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | n.d. | 1000 |
|---|---|-------|------|------|------|------|
| (DBP) (Dibutyl phthalate (DBP)) | | mg/kg | 50 | n.d. | n.d. | 1000 |
| (2-) (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) | | mg/kg | 50 | n.d. | n.d. | 1000 |
| (DIBP) (Diisobutyl phthalate (DIBP)) | | mg/kg | 50 | n.d. | n.d. | 1000 |
| (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) | | mg/kg | 50 | n.d. | n.d. | - |
| (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) | | mg/kg | 50 | n.d. | n.d. | - |
| (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) | | mg/kg | 50 | n.d. | n.d. | - |
| (DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0) | | mg/kg | 50 | n.d. | n.d. | - |
| (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3) | | mg/kg | 50 | n.d. | n.d. | - |
| (2-) (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8) | | mg/kg | 50 | n.d. | n.d. | - |
| (DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3) | | mg/kg | 50 | n.d. | n.d. | - |
| (DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3) | mg/kg | 50 | n.d. | n.d. | - | |

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| | | | | | | |
|---|---|-------|------|------|------|---|
| (DNNP) (Di-n-nonyl phthalate (DNNP)) (CAS No.: 84-76-4) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | n.d. | - |
| (HBCDD) (- HBCDD, - HBCDD, - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (- HBCDD, - HBCDD, - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.) | mg/kg | 5 | n.d. | n.d. | - |
| (F) (Fluorine (F)) (CAS No.: 14762-94-8) | | mg/kg | 50 | 643 | 1930 | - |
| (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1) | BS EN 14582: 2016 (With reference to BS | mg/kg | 50 | 57.5 | 154 | - |
| (Br) (Bromine (Br)) (CAS No.: 10097-32-2) | EN 14582: 2016, analysis was performed by IC.) | mg/kg | 50 | n.d. | n.d. | - |
| (I) (Iodine (I)) (CAS No.: 14362-44-8) | | mg/kg | 50 | n.d. | n.d. | - |
| (PFOS and its salts) (Perfluorooctane sulfonates and its salts (PFOS and its salts)) (CAS No.: 1763-23-1 and its salts) | CEN /TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) | mg/kg | 0.01 | n.d. | n.d. | - |
| (PFOA and its salts) (Perfluorooctanoic acid and its salts (PFOA and its salts)) (CAS No.: 335-67-1 and its salts) | CEN /TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) | mg/kg | 0.01 | n.d. | n.d. | - |

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(Page): 6 of 22

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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(No.): ETR24900322

(Date): 13-Sep-2024

(Page): 8 of 22

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| (Parameter) | 1 (Category 1) | 2 (Category 2) | | 3 (Category 3) | |
|---------------------------|--|---|---------------------------------------|---|---------------------------------------|
| | (30) 2009/48/EC (Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds)) | 1 30 (Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin) | | 1 2 30 (Materials not covered by Category 1 or 2, with intended or foreseeable short- term skin contact (< 30 seconds)) | |
| | | a. 14 (Use by children under 14) | b. (Other consumer products) | a. 14 (Use by children under 14) | b. (Other consumer products) |
| Naphthalene | < 1 | < 2 | | < 10 | |
| Phenanthrene | < 1 Sum | < 5 Sum | < 10 Sum | < 20 Sum | < 50 Sum |
| Anthracene | | | | | |
| Fluoranthene | | | | | |
| Pyrene | | | | | |
| Benzo[a]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Chrysene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[b]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[j]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[k]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[a]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[e]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Indeno[1,2,3-c,d] pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Dibenzo[a,h]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[g,h,i]perylene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 15 PAH (Sum of 15 PAH) | < 1 | < 5 | < 10 | < 20 | < 50 |

(Unit) mg/kg

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(No.): ETR24900322

(Date): 13-Sep-2024

(Page): 10 of 22

(EVERLIGHT ELECTRONICS CO., LTD.)

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| | | |
|--|--|-------------|
| | | |
| PFOS, & (PFOS, its salts & derivatives) | (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg) | 91036-71-4 |
| | (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na) | 4021-47-0 |
| | Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate | 71463-74-6 |
| | Perfluorooctanesulfonate (anion) | 45298-90-6 |
| | N,N-(1:1) (PFOS-N(C ₂ H ₅) ₃) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N(C ₂ H ₅) ₃) | 54439-46-2 |
| | N,N,N-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-1-(1:1) (PFOS-N(CH ₃) ₄) Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH ₃) ₄) | 56773-44-5 |
| | 1-N,N,N-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-1-(1:1) (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) | 56773-56-9 |
| | 1-N,N-N-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-1-(1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) | 124472-68-0 |
| | [4-(1,1-)]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-1-(1:1) Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) | 213740-80-8 |

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| | | |
|--|--|--------------|
| | | |
| PFOS, & (PFOS, its salts & derivatives) | (2,4,6-)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- - 1- (1:1) Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) | 258341-99-0 |
| | 1- - 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- -1- (1:1) Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) | 334529-63-4 |
| | 1- N,N,N- - 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- -1- (1:1) 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) | 773895-92-4 |
| | (PFOS-P(C ₄ H ₉) ₄) Tetrabutylphosphonium perfluorooctane sulfonate (PFOS- P(C ₄ H ₉) ₄) | 2185049-59-4 |
| | (PFOS-C ₄ H ₁₁ N) Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) | 2205029-08-7 |
| | {2-[(2- -2-)] } (PFOS-C ₁₅ H ₃₀ NO ₂) Heptyldimethyl{2-[(2-methylprop-2- enyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-C ₁₅ H ₃₀ NO ₂) | 1203998-97-3 |
| | 1- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- -1,1'- (PFOSAN) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-, 1,1'-anhydride (PFOSAN) | 423-92-7 |

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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

| | | |
|--|---|------------|
| | | |
| PFOA, & (PFOA, its salts & derivatives) | (Perfluorooctanoic acid) (PFOA) | 335-67-1 |
| | (PFOA -Na) Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 |
| | (PFOA -K) Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 |
| | (PFOA -Ag) Silver perfluorooctanoate (PFOA-Ag) | 335-93-3 |
| | (PFOA -F) Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 |
| | (APFO) Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 |
| | (PFOA -Li) Lithium perfluorooctanoate (PFOA-Li) | 17125-58-5 |
| | (PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co) | 35965-01-6 |
| | (PFOA-Cs) Cesium perfluorooctanoate (PFOA-Cs) | 17125-60-9 |
| | (PFOA-Cr(3+)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+)) | 68141-02-6 |
| | - (2:1) PFOA-NH(C ₄ H ₁₀ N) Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N) | 423-52-9 |
| | Pentadecafluorooctanoate (anion) | 45285-51-6 |
| | Perfluorooctanoic Anhydride | 33496-48-9 |
| | N,N,N - -, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-(1:1) Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 98241-25-9 |
| | Tetramethylammoniumperfluorooctanoat | 32609-65-7 |

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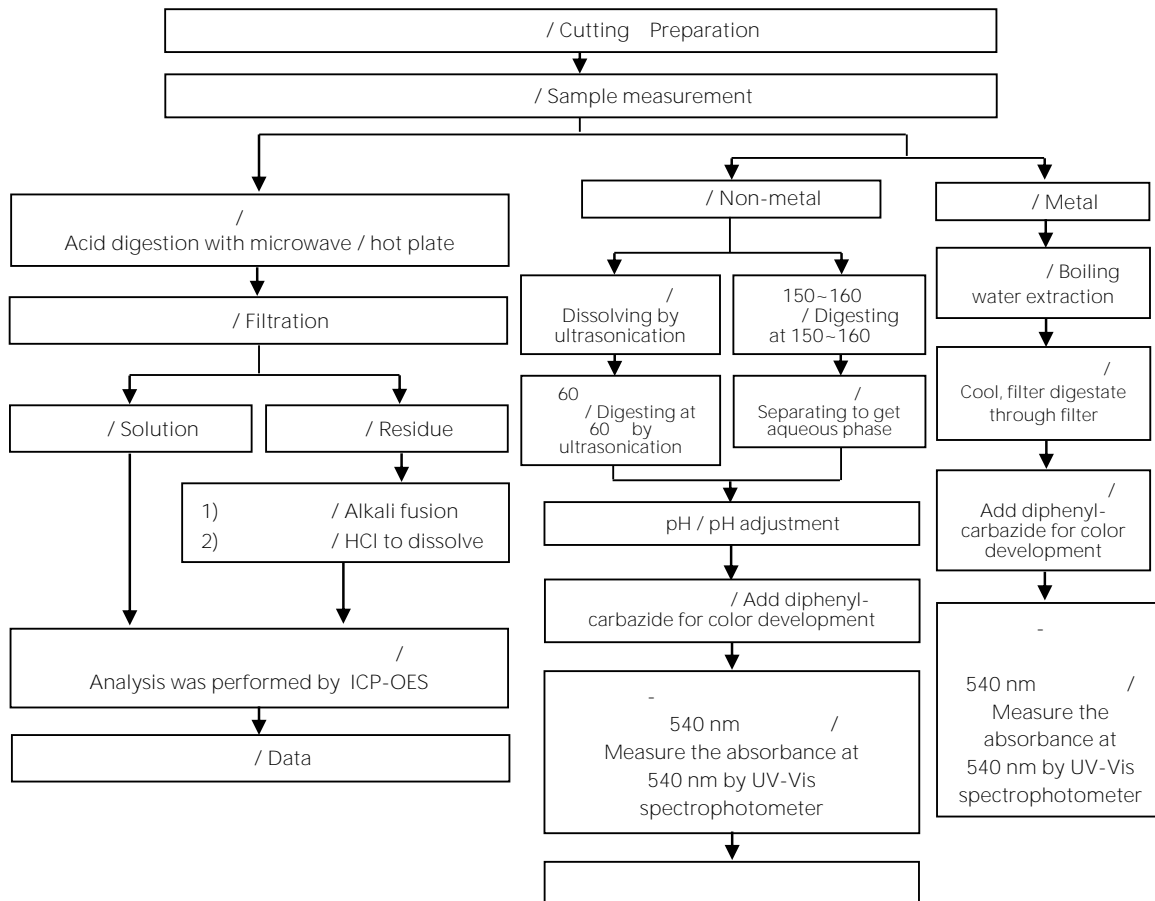
| | | |
|--|--|--------------|
| | | |
| PFOA, & (PFOA, its salts & derivatives) | 1- N,N,N- - , 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- (1:1) 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 277749-00-5 |
| | 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- - (1:1:2) (PFOA-K(H ₂ O) ₂) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H ₂ O) ₂) | 98065-31-7 |
| | 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- - (1:1) (PFOA -C ₂ H ₇ N) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N) | 1376936-03-6 |
| | (1:1) (9Cl) (PFOA -C ₅ H ₅ N) Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9Cl) (PFOA-C ₅ H ₅ N) | 95658-47-2 |
| | -1- (1:1) (PFOA -C ₁₀ H ₁₄ N ₂) Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 |
| | 1- N,N,N- - 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- (1:1) (PFOA - C ₁₁ H ₂₆ N) 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- C ₁₁ H ₂₆ N) | 927835-01-6 |

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

Cr⁶⁺ test method excluded



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(No.): ETR24900322

(Date): 13-Sep-2024

(Page): 15 of 22

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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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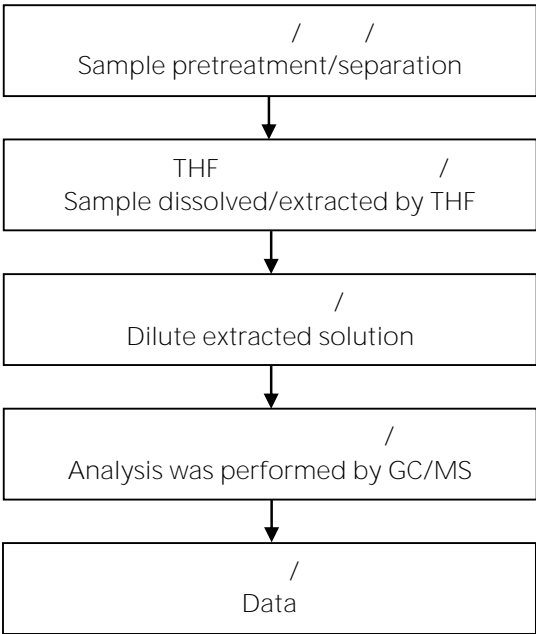


(No.): ETR24900322

(Date): 13-Sep-2024

(Page): 16 of 22

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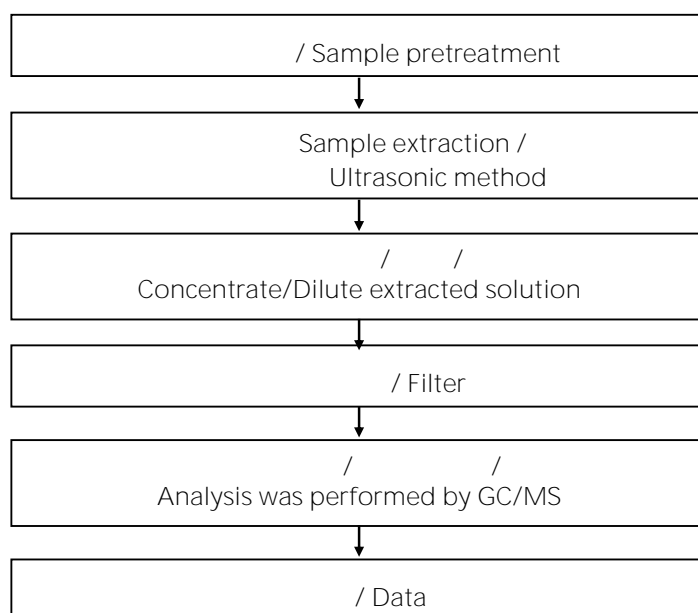


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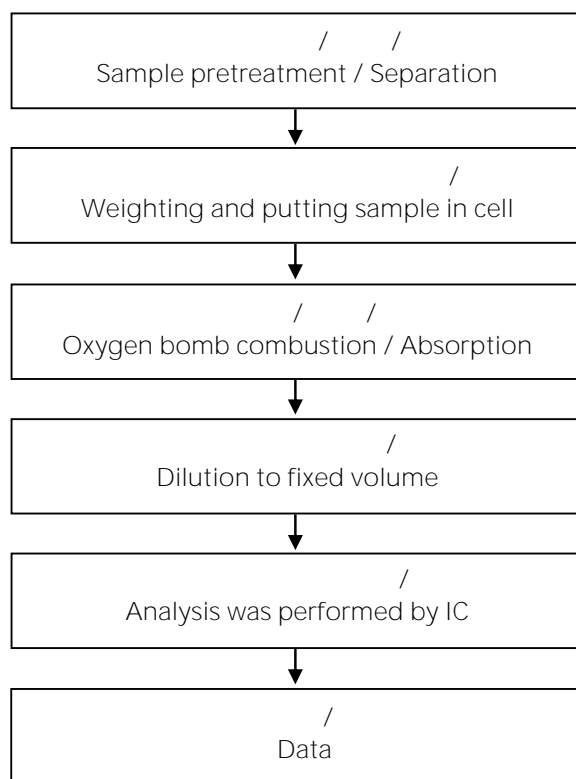
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)



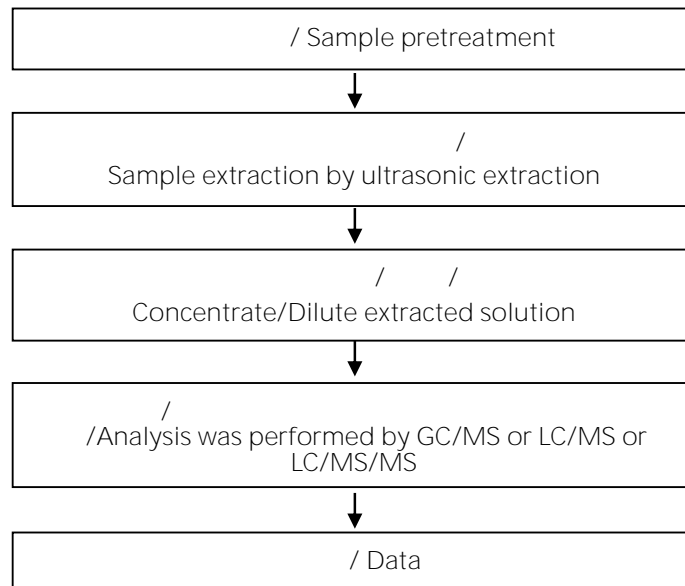
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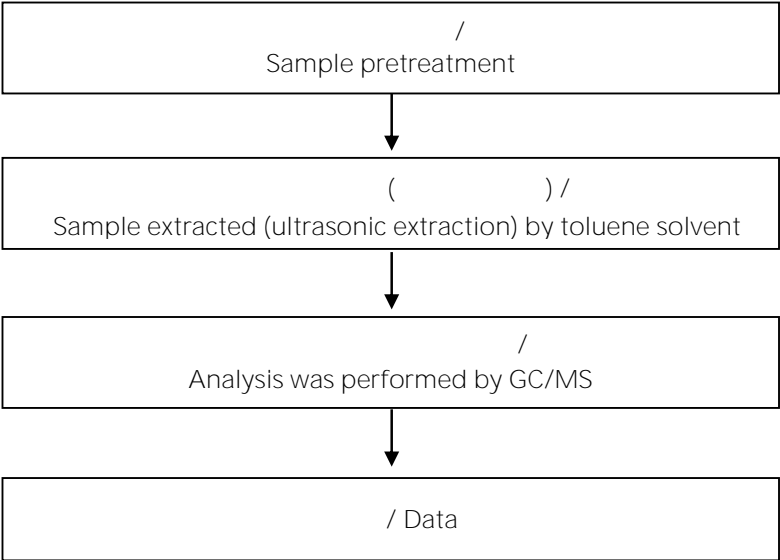


(No.): ETR24900322

(Date): 13-Sep-2024

(Page): 20 of 22

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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

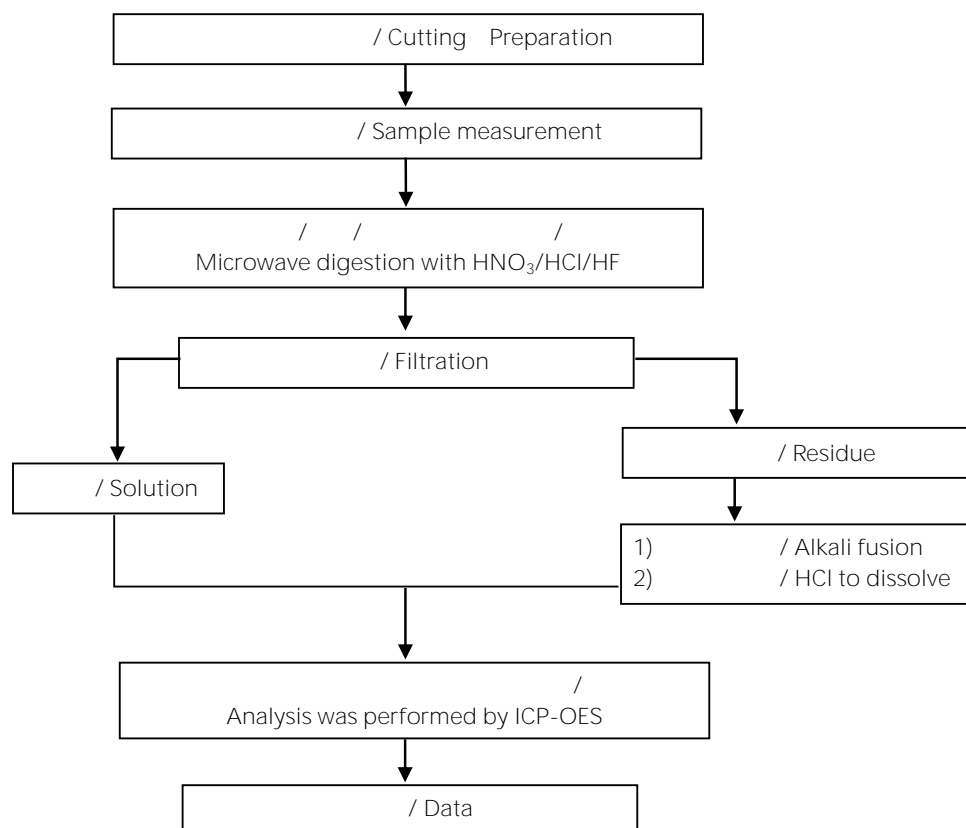


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These samples were dissolved totally by pre-conditioning method according to below flow chart.

/Reference method US EPA 3051A US EPA 3052



* US EPA 3051A

/ US EPA 3051A method does not add HF.



(No.): ETR24900322

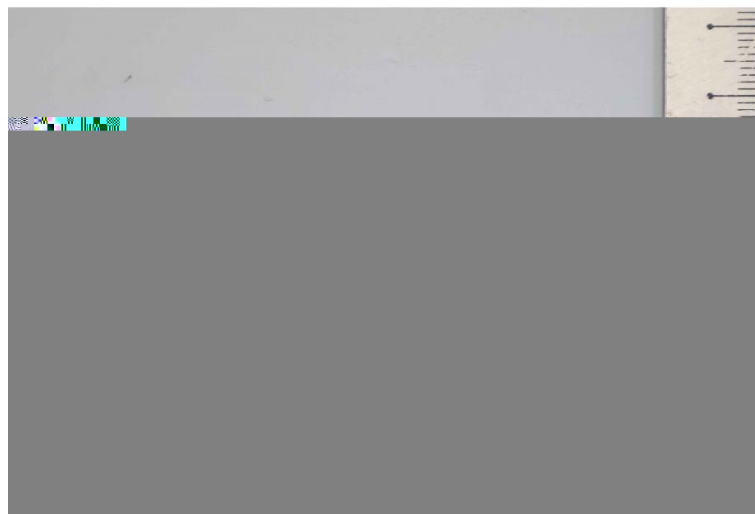
(Date): 13-Sep-2024

(Page): 22 of 22

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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)



ETR24900322 NO.2



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