



Test Report

(No.): ETR23605638

(Date): 12-Jul-2023

(Page): 1 of 17

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

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

| BASIC INFORMATION | |
|--------------------------------------|--|
| Type of Product | IRM |
| 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: allenchiang@everlight.com |
| Contact Person | Allen |
| EVERLIGHT REPORT NO | EVERLIGHT-IRM-Hxxx/Vxxx SERIES(PCB) Sampling Product : IRM-H538M3-SGS-12-Jul-2023 |
| PRODUCT INFORMATION | |
| Product/component Sample description | Receiver |
| Quantity (numbers or weight) | 0.0848 g |
| EVERLIGHT P/N | IRM-Hxxx/Vxxx SERIES(PCB) Sampling Product : IRM-H538M3 |
| Product Lot No | Y23060V5082N16X |
| Country of Origin | CHINA |
| TEST INFORMATION | |
| 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 |

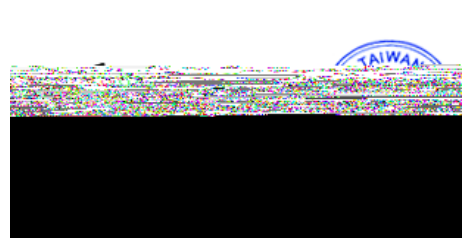
(Sample Submitted By) : (EVERLIGHT ELECTRONICS CO., LTD.)

=====

(Sample Receiving Date) : 30-Jun-2023

(Testing Period) : 30-Jun-2023 to 12-Jul-2023

(Test Results) : (Please refer to following pages).



PIN CODE: 1E4F5CD4

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(Test Requested) : (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).)

(Conclusion) : (1) , DBP, BBP, 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) (AfPS) GS PAHs 3 (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.)

(Test Part Description)

No.1 : (BODY)

(Test Results)

| (Test Items) | (Method) | (Unit) | MDL | (Result) | (Limit) |
|---------------------|--|--------|-----|----------|---------|
| | | | | No.1 | |
| (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. | 100 |
| (Pb) (Lead (Pb)) | | mg/kg | 2 | n.d. | 1000 |

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| (Test Items) | (Method) | (Unit) | MDL | (Result) | (Limit) |
|--|--|--------|-----|----------|---------|
| | | | | No.1 | |
| (Polycyclic Aromatic Hydrocarbons) (PAHs) | | | | | |
| (a) (Benzo[a]pyrene) (CAS No.: 50-32-8) | A fPS GS 2019:01 PAK / (With reference to A fPS GS 2019:01 PAK, analysis was performed by GC/MS.) | mg/kg | 0.2 | n.d. | |
| (e) (Benzo[e]pyrene) (CAS No.: 192-97-2) | | mg/kg | 0.2 | n.d. | |
| (Benzo[a]anthracene) (CAS No.: 56-55-3) | | mg/kg | 0.2 | n.d. | |
| (b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2) | | mg/kg | 0.2 | n.d. | |
| (j) (Benzo[j]fluoranthene) (CAS No.: 205-82-3) | | mg/kg | 0.2 | n.d. | |
| (k) (Benzo[k]fluoranthene) (CAS No.: 207-08-9) | | mg/kg | 0.2 | n.d. | |
| (Chrysene) (CAS No.: 218-01-9) | | mg/kg | 0.2 | n.d. | |
| (Dibenzo[a,h]anthracene) (CAS No.: 53-70-3) | | mg/kg | 0.2 | n.d. | |
| (Benzo[g,h,i]perylene) (CAS No.: 191-24-2) | | mg/kg | 0.2 | n.d. | |
| (Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5) | | mg/kg | 0.2 | n.d. | |
| (Anthracene) (CAS No.: 120-12-7) | | mg/kg | 0.2 | n.d. | |
| (Fluoranthene) (CAS No.: 206-44-0) | | mg/kg | 0.2 | n.d. | |
| (Phenanthrene) (CAS No.: 85-01-8) | | mg/kg | 0.2 | n.d. | |
| (Pyrene) (CAS No.: 129-00-0) | | mg/kg | 0.2 | n.d. | |
| (Naphthalene) (CAS No.: 91-20-3) | | mg/kg | 0.2 | n.d. | |
| 15 (Sum of 15 PAHs) | | mg/kg | - | n.d. | |

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

Remark

(AfPS): GS PAHs

AfPS (German commission for Product Safety): GS PAHs requirements

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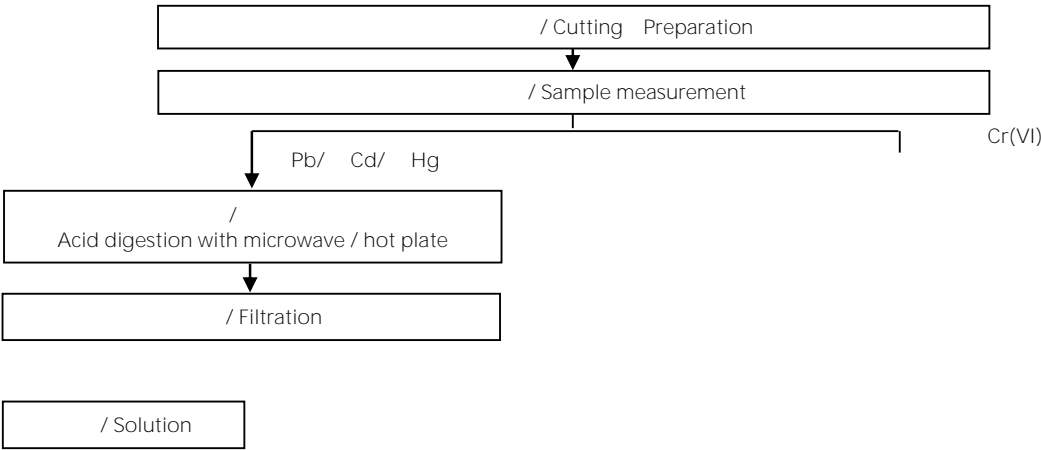
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.
Cr⁶⁺ test method excluded





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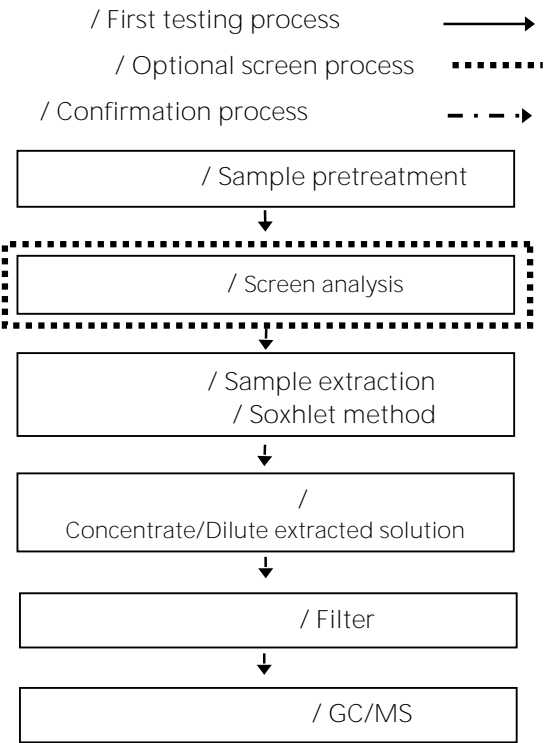
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/ Analytical flow chart - PBBs/PBDEs



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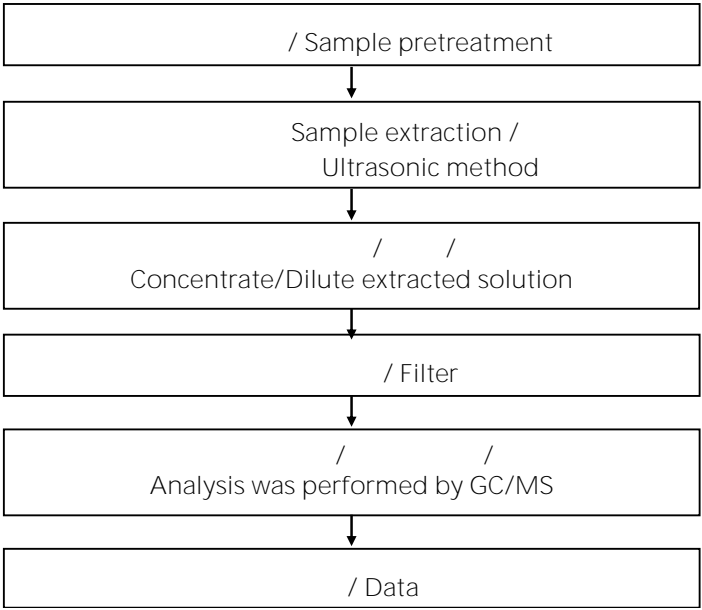
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/ Analytical flow chart - HBCDD



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/ Analytical flow chart - Halogen

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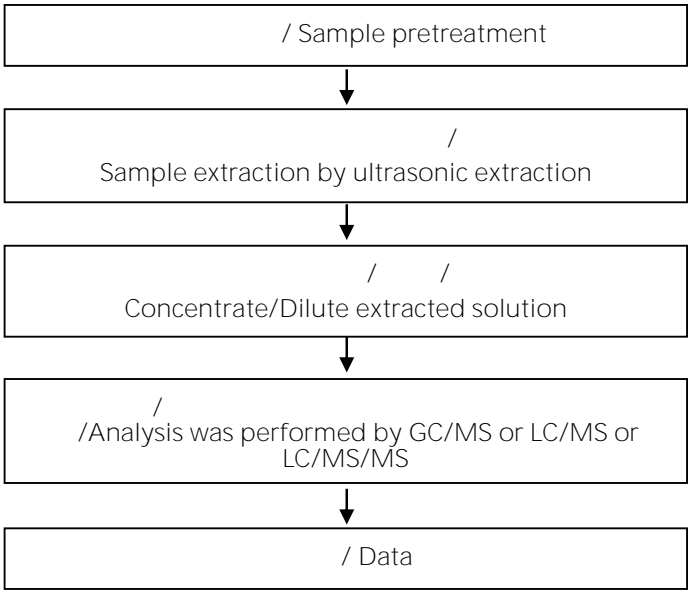
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(/ /) / Analytical flow
chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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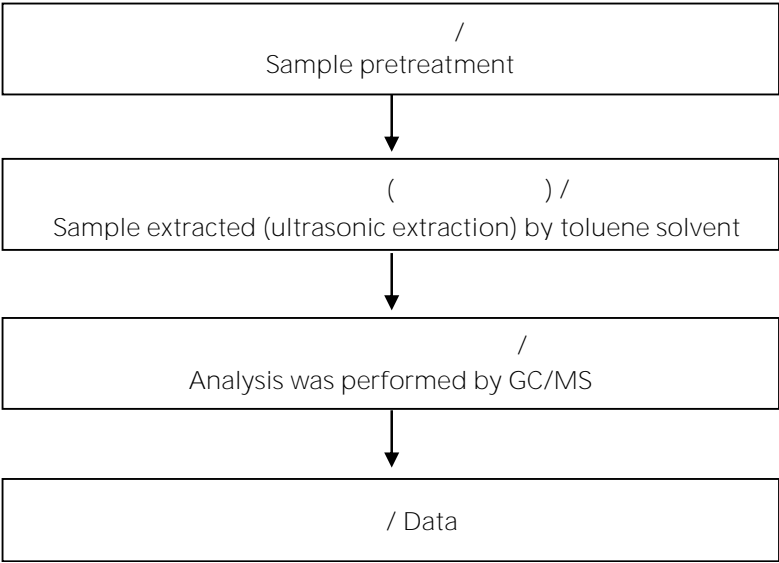
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/
Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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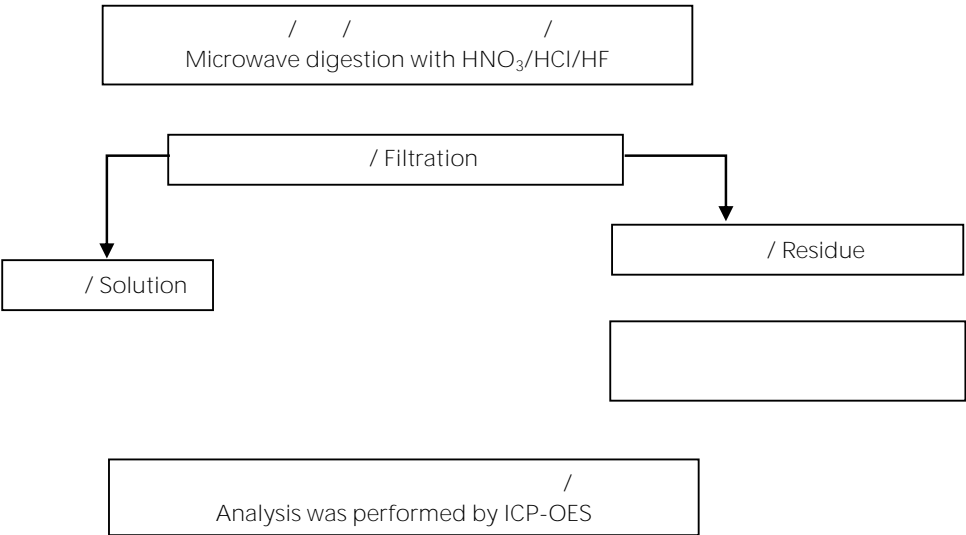
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() / Analytical flow chart of elements (Heavy metal included)

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

/Reference method US EPA 3051A US EPA 3052



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