



**TEST REPORT:**

No. CPSA/230818351-CB28934  
Job Ref. C&P/2023-08-09-013

**REPORTED DATE:** 25-August-2023

**TANAKA ELECTRONICS (MALAYSIA) SDN. BHD.**

PLOT 11, PHASE IV, BAYAN LEPAS FIZ,  
11900, PENANG, MALAYSIA.

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

SAMPLE DESCRIPTION : Au BONDING WIRE  
SAMPLE RECEIVED : 09-August-2023  
TESTING PERIOD : 09-August-2023 to 25-August-2023

TEST REQUESTED : Selected test(s) as requested by customer  
TEST METHOD : -PLEASE REFER TO NEXT PAGE(S)-  
TEST RESULTS : -PLEASE REFER TO NEXT PAGE(S)-

SIGNED FOR AND ON BEHALF OF  
SGS (MALAYSIA) SDN BHD

  
TAY SIAM PINE  
TECHNICAL MANAGER  
IKM No. M/3452/6047/11/12



Test Report Form No.: SGS/TR/CP/013, Ver. 6.0, Effective Date: 07/07/2021

scan to see the report



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Page 1 of 12

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**TEST RESULTS:**

**Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

| Test Parameter(s):         | Unit               | Test Method   | Result | MDL  | Limit    |
|----------------------------|--------------------|---|--------|------|----------|
| Lead (Pb)                  | mg/kg              | With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.   | N.D.   | 2    | Max 1000 |
| Cadmium (Cd)               | mg/kg              | With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.  | N.D.   | 2    | Max 100  |
| Mercury (Hg)               | mg/kg              | With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.                                | N.D.   | 2    | Max 1000 |
| Hexavalent Chromium (CrVI) | µg/cm <sup>2</sup> | With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. | N.D.   | 0.10 | -        |
| Hexavalent Chromium (CrVI) | mg/kg              | With reference to JIS H 8625, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.         | N.D.   | 2    | Max 1000 |
| Sum of PBBs                | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | Max 1000 |
| Monobromobiphenyl          | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Dibromobiphenyl            | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Tribromobiphenyl           | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Tetrabromobiphenyl         | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Pentabromobiphenyl         | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Hexabromobiphenyl          | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Heptabromobiphenyl         | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Octabromobiphenyl          | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Nonabromobiphenyl          | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |
| Decabromobiphenyl          | mg/kg              | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.                                   | N.D.   | 5    | -        |

SIGNED FOR AND ON BEHALF OF  
SGS (MALAYSIA) SDN BHD

  
TAY SIAM PINE  
TECHNICAL MANAGER  
IKM No. M/3452/6047/11/12



Test Report Form No.: SGS/TR/CP/013, Ver: 6.0, Effective Date: 07/07/2021

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**TEST RESULTS:**

**Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

| Test Parameter(s):       | Unit  | Test Method   | Result | MDL | Limit    |
|--------------------------|-------|---|--------|-----|----------|
| Sum of PBBEs             | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | Max 1000 |
| Monobromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Dibromodiphenyl ether    | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Tribromodiphenyl ether   | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Hexabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Octabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Nonabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |
| Decabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D.   | 5   | -        |

- Note :
- (a) mg/kg = ppm ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm
  - (b) N.D. = Not Detected
  - (c) MDL = Method Detection Limit
  - (d) - = Not regulated
  - (e) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
  - (f) a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI.
  - b. The sample is negative for CrVI if CrVI is N.D. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating.
  - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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**TEST RESULTS:**

**Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

Optional: RoHS Directive 2011/65/EU, priority substances

| Test Parameter(s):   | Unit  | Test Method  | Result | MDL |
|--|-------|--|--------|-----|
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4, 3194-55-6(134237-51-7, 134237-50-6, 134237-52-8)) | mg/kg | In-house method, SGS-TM-RSTS-O-012, with reference to IEC 62321-6:2015. Analysis was performed by GCMS | N.D.   | 5   |

Note : (a) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.  
 (b) N.D. = Not Detected

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**Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

| Test Parameter(s):   | Unit  | Test Method  | Result | MDL | Limit    |
|--|-------|--|--------|-----|----------|
| Dibutyl phthalate (DBP)<br>(CAS No. 84-74-2)               | mg/kg | With reference to IEC 62321-8:2017,<br>determination of phthalates by GC-MS. | N.D.   | 50  | Max 1000 |
| Di(2-ethylhexyl) phthalate<br>(DEHP)<br>(CAS No. 117-81-7) | mg/kg | With reference to IEC 62321-8:2017,<br>determination of phthalates by GC-MS. | N.D.   | 50  | Max 1000 |
| Benzyl butyl phthalate<br>(BBP)<br>(CAS No. 85-68-7)       | mg/kg | With reference to IEC 62321-8:2017,<br>determination of phthalates by GC-MS. | N.D.   | 50  | Max 1000 |
| Diisobutyl phthalate (DIBP)<br>(CAS No. 84-69-5)           | mg/kg | With reference to IEC 62321-8:2017,<br>determination of phthalates by GC-MS. | N.D.   | 50  | Max 1000 |

- Note :
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  - (b) N.D. = Not Detected
  - (c) MDL = Method Detection Limit
  - (d) - = Not regulated
  - (e) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
  - (f) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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**TEST RESULTS BY CHEMICAL METHOD:**

**Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

| Test Parameter(s):                                | Unit  | Test Method  | Result   | MDL   |
|---|-------|--|----------|-------|
| Dimethyl Fumarate (CAS No.:624-49-7)              | mg/kg | With reference to US EPA 3550C method. Analysis was performed by GC/MS.                                      | N.D.     | 0.1   |
| Polychlorinated biphenyls(PCB)                    | mg/kg | In-house method SGS-TM-RSTS-O-015 with reference to EPA 3550C. Analysis was performed by GC-MS and/or GC-ECD | N.D.     | 0.5   |
| Polychlorinated naphthalene(PCN)                  | mg/kg | In-house method SGS-TM-RSTS-O-015 with reference to EPA 3550C. Analysis was performed by GC-MS and/or GC-ECD | N.D.     | 5     |
| Polychlorinated terphenyls(PCT)                   | mg/kg | In-house method SGS-TM-RSTS-O-015 with reference to EPA 3550C. Analysis was performed by GC-MS and/or GC-ECD | N.D.     | 5     |
| Alkanes,C10-13,chloro(SCC P) (CAS No. :85535-84-8 | mg/kg | With reference to EPA 3550C. Analysis was performed by GC-ECD  | N.D.     | 100   |
| Polyvinylchloride (PVC)                           | -     | Analysis was performed by FTIR and FLAME Test  | NEGATIVE | -     |
| Antimony (Sb)                                     | mg/kg | With reference to EPA Method 3052, and performed by ICP-OES.   | N.D.     | 2     |
| Beryllium (Be)                                    | mg/kg | With reference to EPA Method 3052, and performed by ICP-OES.   | 4        | 2     |
| Magnesium (Mg)                                    | mg/kg | With reference to EPA Method 3052, and performed by ICP-OES.   | N.D.     | 20    |
| Arsenic (As)                                      | mg/kg | With reference to EPA Method 3052, and performed by ICP-OES.   | N.D.     | 2     |
| Phosphorus, P                                     | mg/kg | With reference to EPA3052,performed by ICP-OES   | N.D.     | 20    |
| Perfluorooctanoic acid (PFOA)                     | %     | With reference to US EPA 3550C:2007. Analysis was performed by HPLC-MS                                       | N.D.     | 0.001 |
| Perfluorooctanesulfonic acid (PFOS)               | %     | With reference to US EPA 3550C:2007. Analysis was performed by HPLC-MS                                       | N.D.     | 0.001 |

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|                       |       |   |      |    |
|-----------------------|-------|---|------|----|
| <b>Halogen</b>        | -     | -   | -    | -  |
| Halogen-Fluorine (F)  | mg/kg | With reference to BS EN 14582:2016, analysis performed by IC method for Fluorine content. | N.D. | 50 |
| Halogen-Chlorine (Cl) | mg/kg | With reference to BS EN 14582:2016, analysis performed by IC method for Chlorine content. | N.D. | 50 |
| Halogen-Bromine (Br)  | mg/kg | With reference to BS EN 14582:2016, analysis performed by IC method for Bromine content.  | N.D. | 50 |
| Halogen-Iodine (I)    | mg/kg | With reference to BS EN 14582:2016, analysis performed by IC method for Iodine content.   | N.D. | 50 |

Note : (a) mg/kg = ppm ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm  
 (b) N.D. = Not Detected  
 (c) MDL = Method Detection Limit  
 (d) Negative = Undetectable / Positive = Detectable

**TEST RESULTS BY CHEMICAL METHOD:**
**Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

| Test Parameter(s):  | Unit  | Test Method   | Result | MDL |
|---|-------|---|--------|-----|
| <b>Phthalates</b>   | -     | -   | -      | -   |
| Di-n-octyl phthalate (DNOP)<br>(CAS No. 117-84-0)                 | mg/kg | With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.                       | N.D.   | 50  |
| Di-isononyl phthalate (DINP)<br>(CAS No.: 2855-3-12-0;68515-48-0) | mg/kg | With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.                       | N.D.   | 100 |
| Di-n-hexyl phthalate (DnHP/DHEXP)<br>(CAS No. 84-75-3)            | mg/kg | In-house SGS-TM-RSTS-O-003 with reference to IEC 62321-8:2017. Analysis was performed by GC-MS. | N.D.   | 50  |
| Bis (2-methoxyethyl) phthalate (DMEP)<br>(CAS No.:117-82-8)       | mg/kg | In-house SGS-TM-RSTS-O-003 with reference to IEC 62321-8:2017. Analysis was performed by GC-MS. | N.D.   | 50  |
| Di-isodecyl phthalate (DIDP)<br>(CAS No.: 2676-1-40-0,68515-49-1) | mg/kg | With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.                       | N.D.   | 100 |

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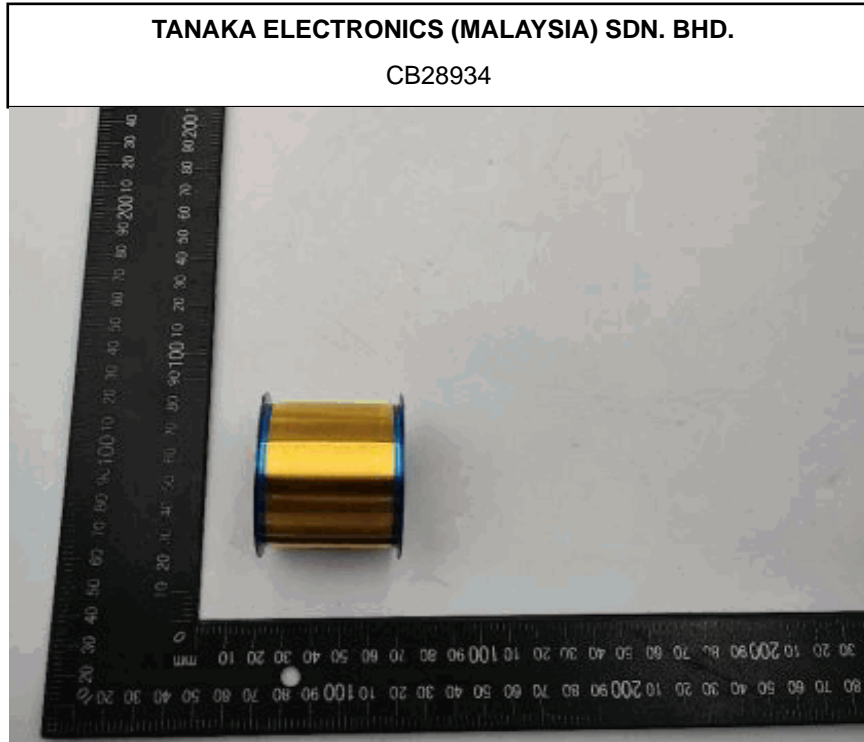
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**Test Part Description :**

Sample Description: -PLEASE REFER TO PAGE 1-



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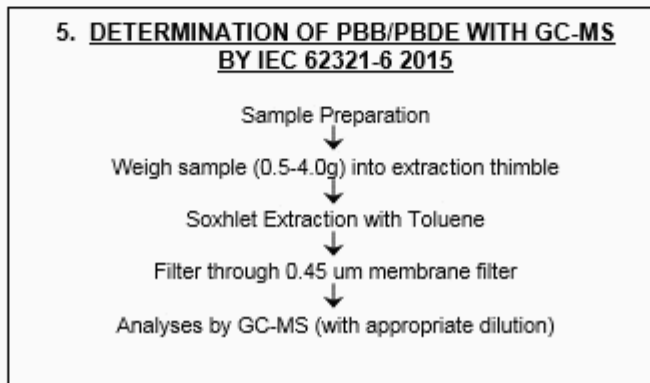
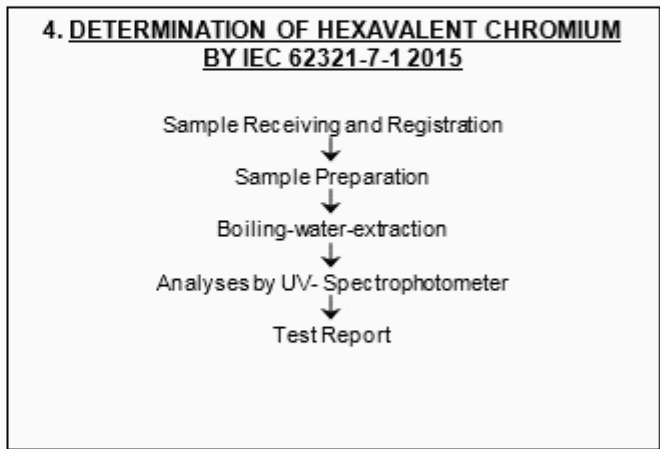
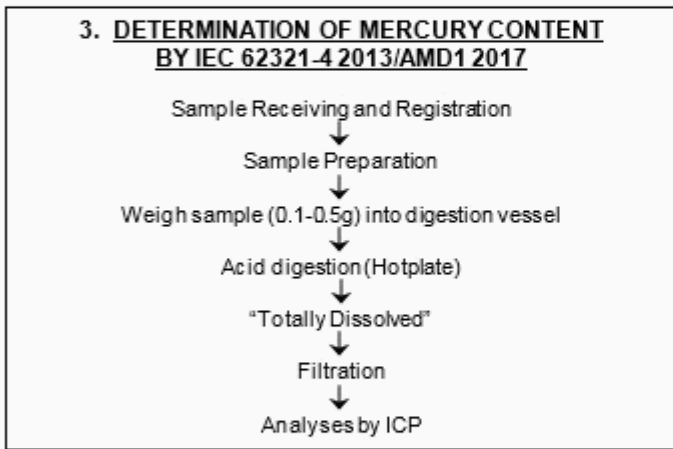
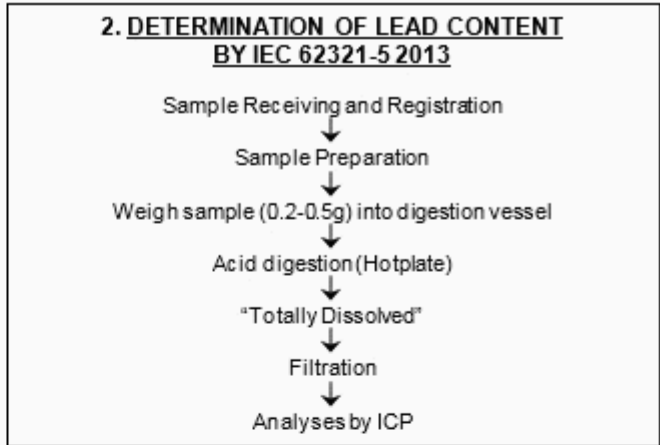
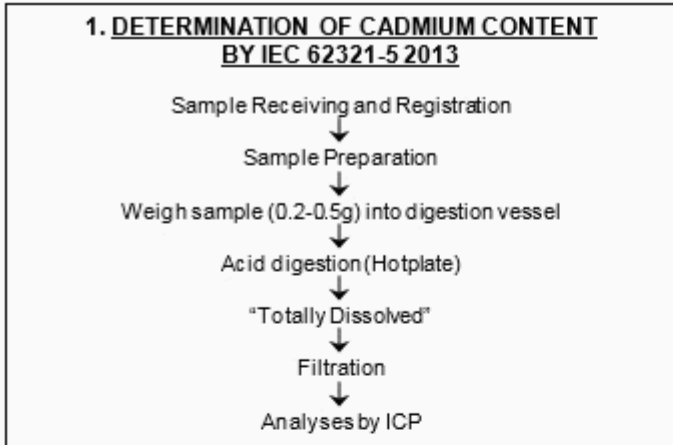
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**TEST REPORT:**

No. CPSA/230818351-CB28934  
Job Ref. C&P/2023-08-09-013

**REPORTED DATE:** 25-August-2023



SIGNED FOR AND ON BEHALF OF  
SGS (MALAYSIA) SDN BHD

  
TAY SIAM PINE  
TECHNICAL MANAGER  
IKM No. M/3452/6047/11/12



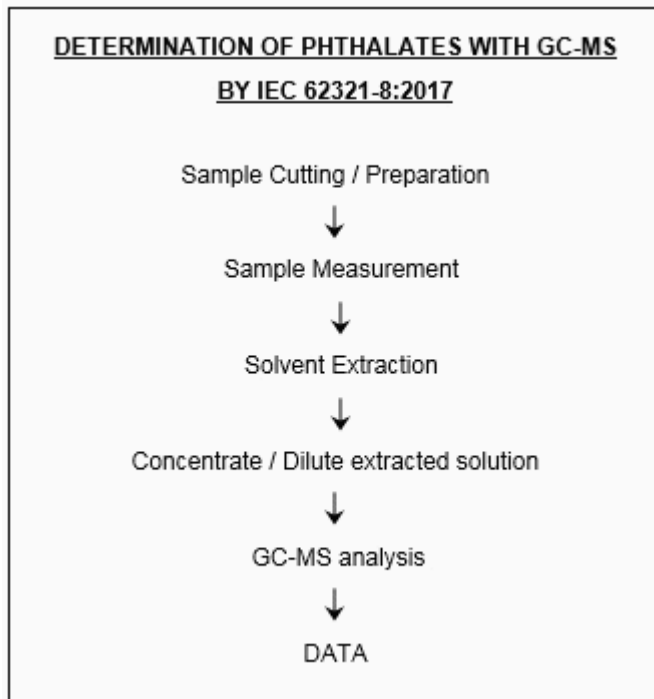
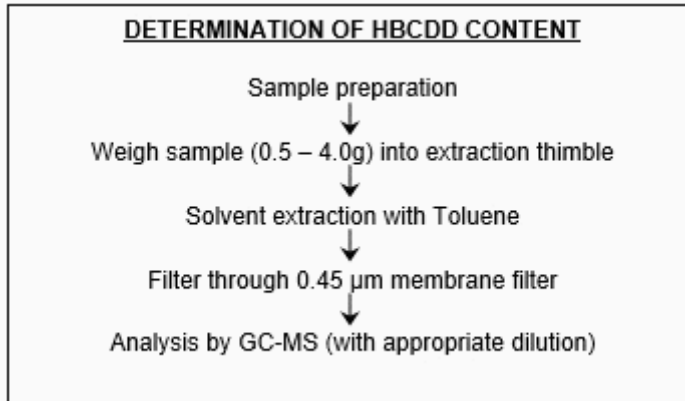
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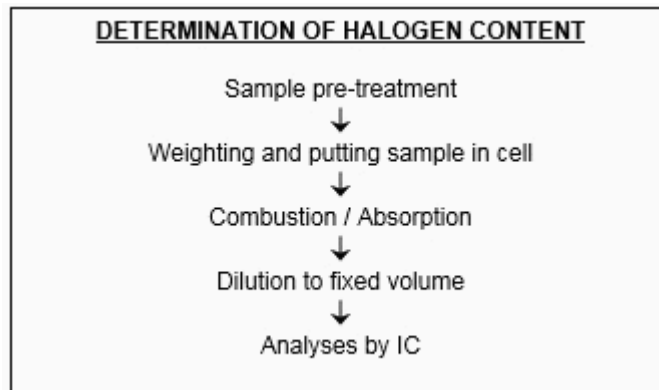
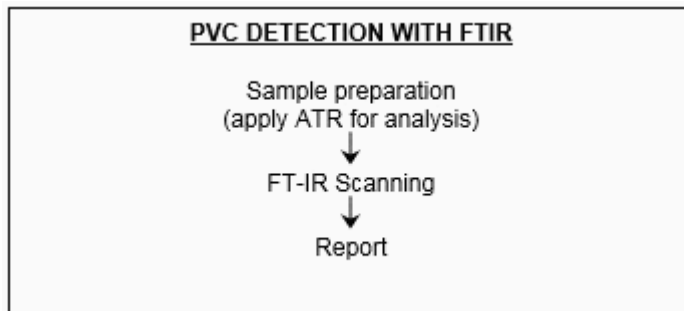
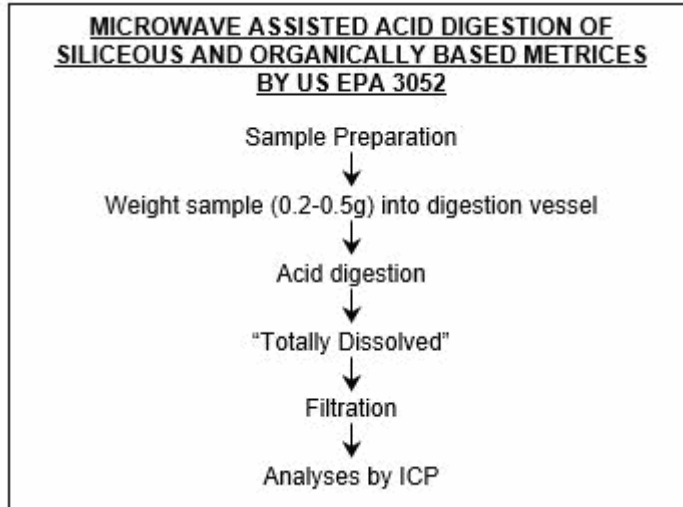
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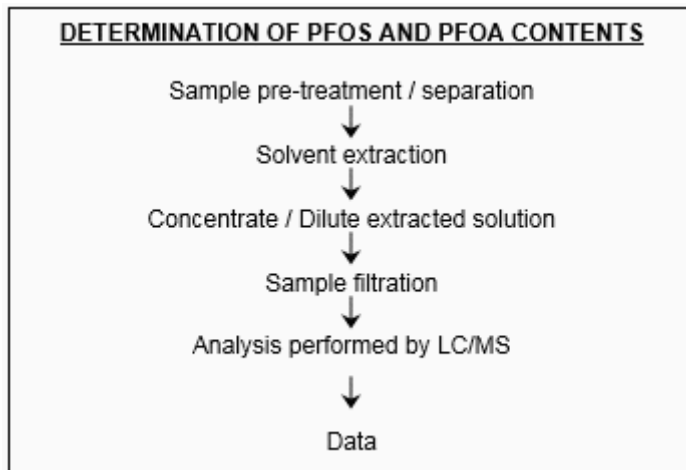
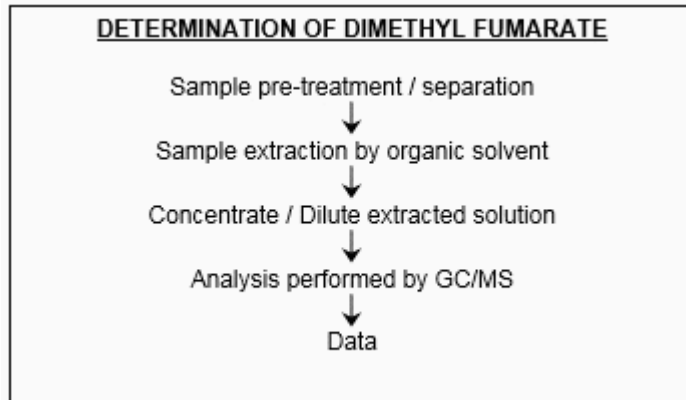
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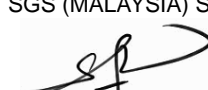
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\*\*\* End of test report \*\*\*

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