

Test Report

No. : CE/2009/B2170C Date : 2009/11/27 Page : 1 of 30

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,

PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934




The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : COVER TAPES
Style/Item No. : TYPE ABX HEAT ACTIVATED ANTISTATIC
Sample Receiving Date : 2009/11/11
Testing Period : 2009/11/11 TO 2009/11/19 AND 2009/11/20 TO 2009/11/27

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

* This report is added testing and combined with CE/2009/B2170 *


Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Tel (049) 545-6350 Fax (049) 545-6934



Test Result(s)

PART NAME NO.1 : TRANSPARENT PLASTIC FILM

| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|---|------|----------|
| | | | | NO.1 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| Beryllium (Be) | mg/kg | With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES. | 2 | n.d. |
| Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 0.5 | n.d. |
| Polychlorinated Naphthalene (PCNs) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 5 | n.d. |
| Polychlorinated Terphenyls (PCTs) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 0.5 | n.d. |
| Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2) | % | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 0.01 | n.d. |
| Formaldehyde (CAS No.: 000050-00-0) | mg/kg | With reference to DIN 53315 method. Analysis was performed by HPLC/DAD. | 3 | n.d. |
| PVC | ** | Analysis was performed by FTIR and FLAME Test. | - | Negative |
| PFOA (CAS No.: 000335-67-1) | mg/kg | With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS. | 10 | n.d. |
| Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide | mg/kg | With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS. | 10 | n.d. |

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| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|---|------|--------|
| | | | | NO.1 |
| 2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (CAS No.: 003846-71-7) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 5 | n.d. |
| Bromomethane (CAS No.: 000074-83-9) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Sum of PBBs | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. |
| Monobromobiphenyl | | | 5 | n.d. |
| Dibromobiphenyl | | | 5 | n.d. |
| Tribromobiphenyl | | | 5 | n.d. |
| Tetrabromobiphenyl | | | 5 | n.d. |
| Pentabromobiphenyl | | | 5 | n.d. |
| Hexabromobiphenyl | | | 5 | n.d. |
| Heptabromobiphenyl | | | 5 | n.d. |
| Octabromobiphenyl | | | 5 | n.d. |
| Nonabromobiphenyl | | | 5 | n.d. |
| Decabromobiphenyl | | | 5 | n.d. |
| Sum of PBDEs | | | - | n.d. |
| Monobromodiphenyl ether | | | 5 | n.d. |
| Dibromodiphenyl ether | | | 5 | n.d. |
| Tribromodiphenyl ether | | | 5 | n.d. |
| Tetrabromodiphenyl ether | | | 5 | n.d. |
| Pentabromodiphenyl ether | | | 5 | n.d. |
| Hexabromodiphenyl ether | | | 5 | n.d. |
| Heptabromodiphenyl ether | | | 5 | n.d. |
| Octabromodiphenyl ether | | | 5 | n.d. |
| Nonabromodiphenyl ether | 5 | n.d. | | |
| Decabromodiphenyl ether | 5 | n.d. | | |
| Organic-tin compounds | | | | |
| Tributyl Tin (TBT) (CAS No.: 000688-73-3) | mg/kg | With reference to DIN 38407-13. Analysis was performed by GC/FPD. | 0.03 | n.d. |
| Triphenyl Tin (TphT) (CAS No.: 000668-34-8) | mg/kg | With reference to DIN 38407-13. Analysis was performed by GC/FPD. | 0.03 | n.d. |

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| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|---|-----|----------|
| | | | | NO.1 |
| Asbestos | | | | |
| Actinolite (CAS No.: 077536-66-4) | % | With reference to NIOSH 9000 method. Analysis was performed by XRD. | 1 | Negative |
| Amosite (CAS No.: 012172-73-5) | % | With reference to NIOSH 9000 method. Analysis was performed by XRD. | 1 | Negative |
| Anthophyllite (CAS No.: 077536-67-5) | % | With reference to NIOSH 9000 method. Analysis was performed by XRD. | 1 | Negative |
| Chrysotile (CAS No.: 012001-29-5) | % | With reference to NIOSH 9000 method. Analysis was performed by XRD. | 1 | Negative |
| Crocidolite (CAS No.: 012001-28-4) | % | With reference to NIOSH 9000 method. Analysis was performed by XRD. | 1 | Negative |
| Tremolite (CAS No.: 077536-68-6) | % | With reference to NIOSH 9000 method. Analysis was performed by XRD. | 1 | Negative |
| AZO | | | | |
| 1): 4-AMINODIPHENYL (CAS No.: 000092-67-1) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 2): BENZIDINE (CAS No.: 00092-87-5) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 3): 4-CHLORO-O-TOLUIDINE (CAS No.: 000095-69-2) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 4): 2-NAPHTHYLAMINE (CAS No.: 000091-59-8) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 5): O-AMINOAZOTOLUENE (CAS No.: 000097-56-3) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 6): 2-AMINO-4-NITROTOLUENE (CAS No.: 000099-55-8) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 7): P-CHLOROANILINE (CAS No.: 000106-47-8) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 8): 2,4-DIAMINOANISOLE (CAS No.: 000615-05-4) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000101-77-9) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 10): 3,3'-DICHLOROBENZIDINE (CAS No.: 000091-94-1) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |

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| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|--|-------|--------|
| | | | | NO.1 |
| 11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 000119-90-4) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000838-88-0) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 000120-71-8) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 15): 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 000101-14-4) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 16): 4,4'-OXYDIANILINE (CAS No.: 000101-80-4) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 17): 4,4'-THIODIANILINE (CAS No.: 000139-65-1) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 18): O-TOLUIDINE (CAS No.: 000095-53-4) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 19): 2,4-TOLUYLENEDIAMINE (CAS No.: 000095-80-7) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 20): 2,4,5-TRIMETHYLANILINE (CAS No.: 000137-17-7) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 21): O-ANISIDINE (CAS No.: 000090-04-0) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 22): P-AMINOAZOBENZENE (CAS No.: 000060-09-3) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 23): 2,4-XYLIDINE (CAS No.: 000095-68-1) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 24): 2,6-XYLIDINE (CAS No.: 000087-62-7) | mg/kg | With reference to LMBG 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| Phthalates | | | | |
| BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |

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| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|--|-------|--------|
| | | | | NO.1 |
| DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. |
| DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. |
| DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| DBP (Dibutyl phthalate) (CAS No.: 000084-74-2) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| HFCs (Hydrofluorocarbon) | | | | |
| HFC-23 (CHF3)(CAS No.: 000075-46-7) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-32 (CH2F2)(CAS No.: 000075-10-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-41 (CH3F)(CAS No.: 000593-53-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-43-10mee (C5H2F10) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-125 (C2HF5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-134 (C2H2F4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-134a (CH2FCF3)(CAS No.: 000811-97-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-143 (CH3F3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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|--|-------|--|-----|--------|
| | | | | NO.1 |
| HFC-143a (CH3F3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-152a (C2H4F2)(CAS No.: 000075-37-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-227ea (C3HF7)(CAS No.: 000431-89-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-236fa (C3H2F6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-236ea (C3H2F6)(CAS No.: 000431-63-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-245ca (C3H3F5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-245fa (C3H3F5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HFC-365mfc (C4H5F5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| PFCs (Perfluorocarbon) | | | | |
| F14 (CAS No.: 000075-73-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Fluorocarbon 116 (CAS No.: 000076-16-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Freon 218 (CAS No.: 000076-19-7) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Decafluorobutane (CAS No.: 000355-25-9) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|--|-----|--------|
| | | | | NO.1 |
| Freon C318 (CAS No.: 000115-25-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Perfluor-1-butene (CAS No.: 000357-26-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| perfluorisobutene (CAS No.: 000382-21-8) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,4-dihydrooctafluorobutane (CAS No.: 000377-36-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Nonafluor-2- (trifluoromethyl) butane (CAS No.: 000594-91-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Perfluoro-n-pentane (CAS No.: 000678-26-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 2-perfluoromethylpentane (CAS No.: 000355-04-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Perfluorohexane (CAS No.: 000355-42-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Halogen | | | | |
| Halogen-Fluorine (F) (CAS No.: 014762-94-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |
| Halogen-Chlorine (Cl) (CAS No.: 022537-15-1) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | 1920 |
| Halogen-Bromine (Br) (CAS No.: 010097-32-2) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |
| Halogen-Iodine (I) (CAS No.: 014362-44-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |
| CFC's (Chlorofluorocarbons) | | | | |
| Group I | | | | |
| Chlorofluorocarbon-11 (CAS No.: 000075-69-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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Test Report

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|--|-----|--------|
| | | | | NO.1 |
| Chlorofluorocarbon-12 (CAS No.: 000075-71-8) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-113 (CAS No.: 000076-13-1) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-114 (CAS No.: 000076-14-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-115 (CAS No.: 000076-15-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Group III | | | | |
| Chlorofluorocarbon-13 (CAS No.: 000075-72-9) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-111 (CAS No.: 000354-56-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-112 (CAS No.: 000076-12-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-211 (CAS No.: 000422-78-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-212 (CAS No.: 003182-26-1) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-213 (CAS No.: 002354-06-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-214 (CAS No.: 029255-31-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-215 (CAS No.: 004259-43-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|--|-----|--------|
| | | | | NO.1 |
| Chlorofluorocarbon-216 (CAS No.: 000661-97-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chlorofluorocarbon-217 (CAS No.: 000422-86-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Halons | | | | |
| Halon-1211 (CAS No.: 000353-59-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Halon-1301 (CAS No.: 000075-63-8) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Halon-2402 (CAS No.: 000124-73-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFCs (Hydrobromofluorocarbons) | | | | |
| HBFC-21B2 (CHFBr ₂) (CAS No.: 001868-53-7) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-22B1 (CHF ₂ Br) (CAS No.: 001511-62-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-31B1 (CH ₂ FBr) (CAS No.: 000373-52-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-121B4 (C ₂ HFBr ₄) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-122B3 (C ₂ HF ₂ Br ₃) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-123B2 (C ₂ HF ₃ Br ₂) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-124B1 (C ₂ HF ₄ Br) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|------------------------|-------|--|-----|--------|
| | | | | NO.1 |
| HBFC-131B3 (C2H2FBr3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-132B2 (C2H2F2Br2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-133B1 (C2H2F3Br) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-141B2 (C2H3FBr2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-142B1 (C2H3F2Br) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-151B1 (C2H4FBr) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-221B6 (C3HFBr6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-222B5 (C3HF2Br5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-223B4 (C3HF3Br4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-224B3 (C3HF4Br3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-225B2 (C3HF5Br2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-226B1 (C3HF6Br) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|------------------------|-------|--|-----|--------|
| | | | | NO.1 |
| HBFC-231B5 (C3H2FBr5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-232B4 (C3H2F2Br4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-233B3 (C3H2F3Br3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-234B2 (C3H2F4Br2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-235B1 (C3H2F5Br) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-241B4 (C3H3FBr4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-242B3 (C3H3F2Br3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-243B2 (C3H3F3Br2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-244B1 (C3H3F4Br) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-251B3 (C3H4FBr3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-252B2 (C3H4F2Br2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-253B1 (C3H4F3Br) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|--|-----|--------|
| | | | | NO.1 |
| HBFC-261B2 (C3H5FBr2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-262B1 (C3H5F2Br) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HBFC-271B1 (C3H6FBr) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| CHCs (Chlorinate hydrocarbon) | | | | |
| 1,1,1,2-Tetrachloroethane (CAS No.: 000630-20-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,1,1-Trichloroethane (CAS No.: 000071-55-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,1,2,2-Tetrachloroethane (CAS No.: 000079-34-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,1,2-Trichloroethane (CAS No.: 000079-00-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,1-Dichloroethane (CAS No.: 000075-34-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,1-Dichloroethene (CAS No.: 000075-35-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,1-Dichloropropene (CAS No.: 000563-58-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,2,3-Trichloropropane (CAS No.: 000096-18-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,2-Dichloroethane (CAS No.: 000107-06-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|--|-----|--------|
| | | | | NO.1 |
| 1,2-Dichloropropane (CAS No.: 000078-87-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 1,3-Dichloropropane (CAS No.: 000142-28-9) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| 2,2-Dichloropropane (CAS No.: 000594-20-7) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Carbon tetrachloride (CAS No.: 000056-23-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chloroethane (CAS No.: 000075-00-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chloroform (CAS No.: 000067-66-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Chloromethane (CAS No.: 000074-87-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| cis-1,2-Dichloroethene (CAS No.: 000156-59-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| cis-1,3-Dichloropropene (CAS No.: 010061-01-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Hexachlorobutadiene (CAS No.: 000087-68-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Methylene Chloride (CAS No.: 000075-09-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Tetrachloroethene (CAS No.: 000127-18-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|--|-----|--------|
| | | | | NO.1 |
| trans-1,2-Dichloroethene (CAS No.: 000156-60-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| trans-1,3-Dichloropropene (CAS No.: 010061-02-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| Trichloroethylene (CAS No.: 000079-01-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFCs (Hydrochlorofluorocarbons) | | | | |
| HCFC-21 (CAS No.: 000075-43-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-22 (CAS No.: 000075-45-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-31 (CAS No.: 000593-70-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-121 (CAS No.: 000354-14-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-122 (CAS No.: 000354-21-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-123 (CAS No.: 000306-83-2) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-124 (CAS No.: 002837-89-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-131 (CAS No.: 000359-28-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-132b (CAS No.: 001649-08-7) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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ADVANTEK INC.

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PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|-----------------------------------|-------|--|-----|--------|
| | | | | NO.1 |
| HCFC-133a (CAS No.: 000075-88-7) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-141b (CAS No.: 001717-00-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-142b (CAS No.: 000075-68-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-221 (CAS No.: 000422-26-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-222 (CAS No.: 000422-49-1) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-223 (CAS No.: 000422-52-6) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-224 (CAS No.: 000422-54-8) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-225ca (CAS No.: 000422-56-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-225cb (CAS No.: 000507-55-1) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-226 (CAS No.: 000431-87-8) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-231 (CAS No.: 000421-94-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-232 (CAS No.: 000460-89-9) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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Test Report

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



| Test Item (s): | Unit | Method | MDL | Result |
|---------------------------------|-------|--|-----|--------|
| | | | | NO.1 |
| HCFC-233 (CAS No.: 007125-84-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-234 (CAS No.: 000425-94-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-235 (CAS No.: 000460-92-4) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-241 (CAS No.: 000666-27-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-242 (CAS No.: 000460-69-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-243 (CAS No.: 000460-69-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-244 | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-251 (CAS No.: 000421-41-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-252 (CAS No.: 000819-00-1) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-253 (CAS No.: 000460-35-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-261 (CAS No.: 000420-97-3) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-262 (CAS No.: 000420-99-5) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| HCFC-271 (CAS No.: 000430-55-7) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |

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ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,

PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. ** = Qualitative analysis (No Unit)
6. Negative = Undetectable / Positive = Detectable
7. Asbestos : Negative = "< 1.0 %", Positive = "> 1.0 %"

PFOS Reference Information : Directive 2006/122/EC

(1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.

(2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.

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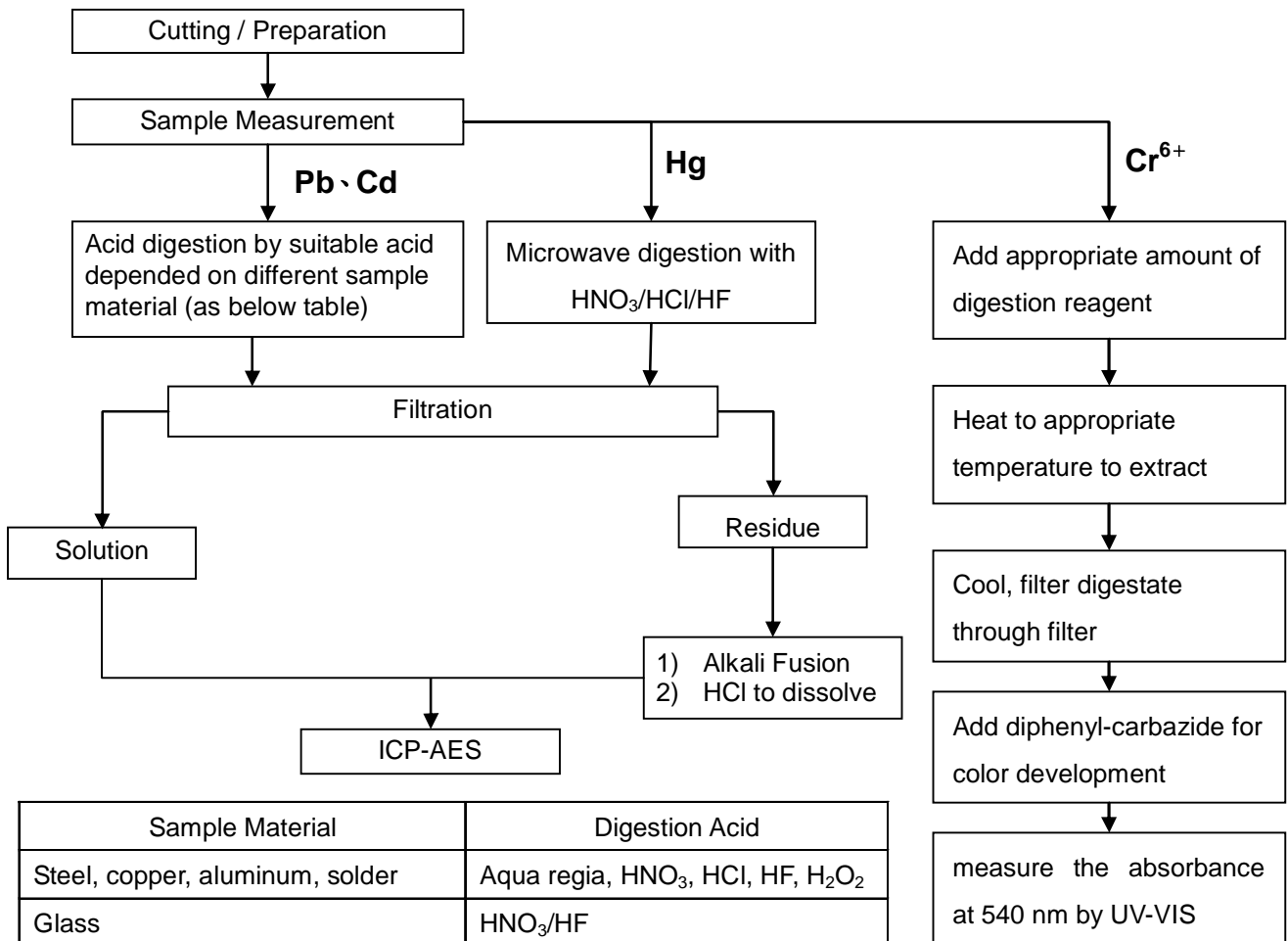
ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA CALAMBA CITY, LAGUNA,
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



| Sample Material | Digestion Acid |
|------------------------------------|---|
| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| Others | Any acid to total digestion |

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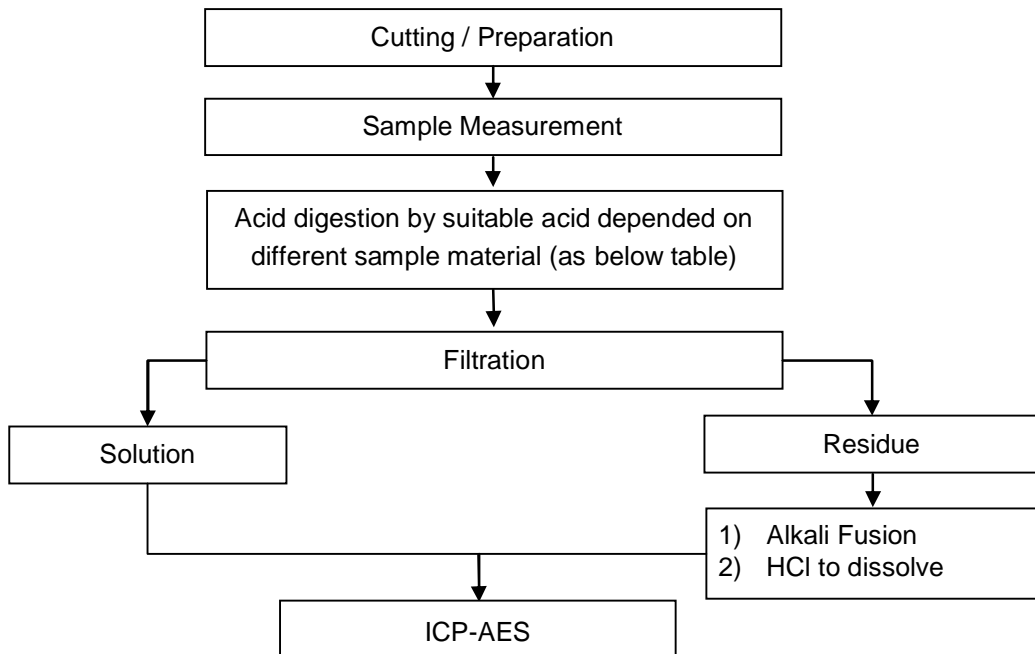
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PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



| | |
|------------------------------------|---|
| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| Others | Any acid to total digestion |

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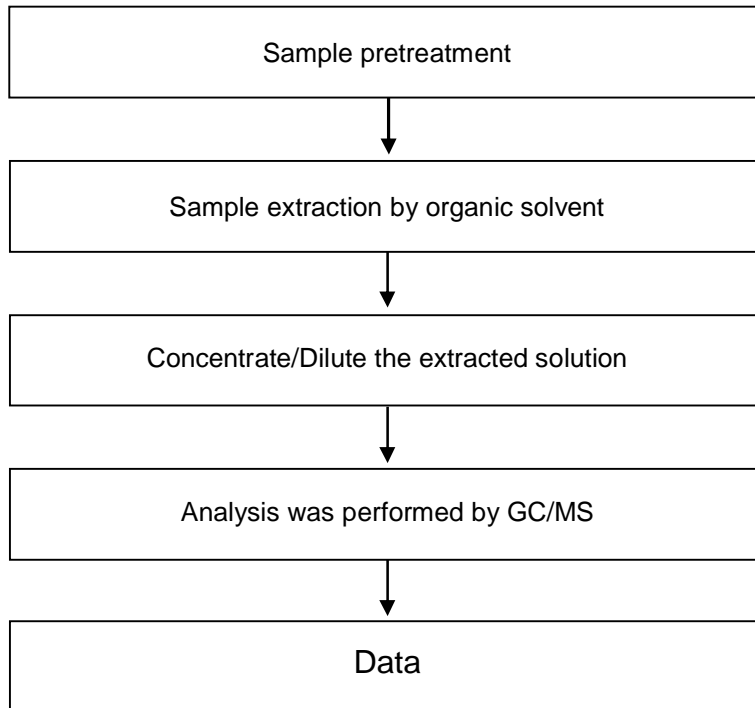
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Tel (049) 545-6350 Fax (049) 545-6934



Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Max Liu
 - 2) Name of the person in charge of measurement: Shinjyh Chen
- Reference method: US EPA 8270D, US EPA 3540
 - Test Items: PCBs, PCNs, PCTs, Mirex, CP, MCCP



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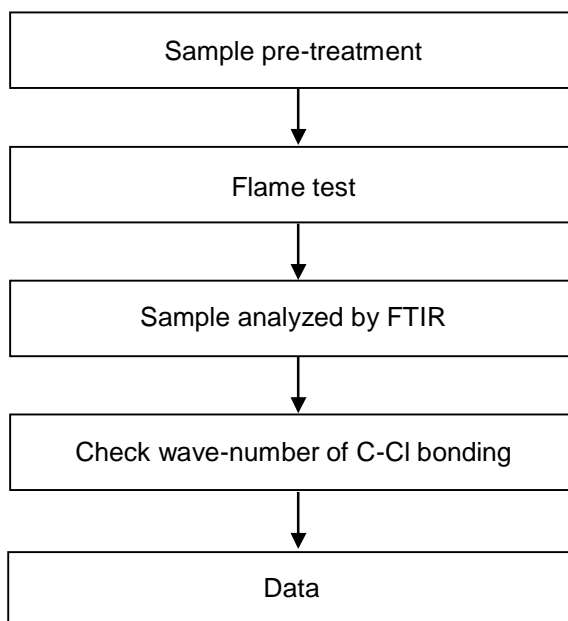
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PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



Analysis flow chart for determination of PVC in material

- 1) Name of the person who made measurement: Eva Chao
- 2) Name of the person in charge of measurement: Shinjyh Chen



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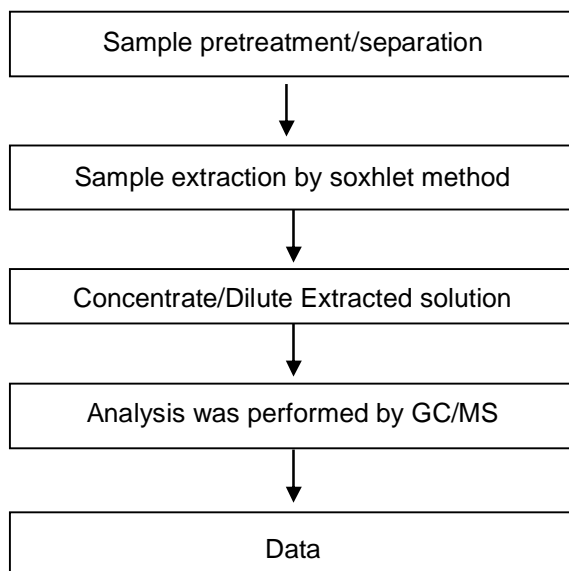
Tel (049) 545-6350 Fax (049) 545-6934



Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: Phthalate 、 Benzotriazole 、 HBCDD



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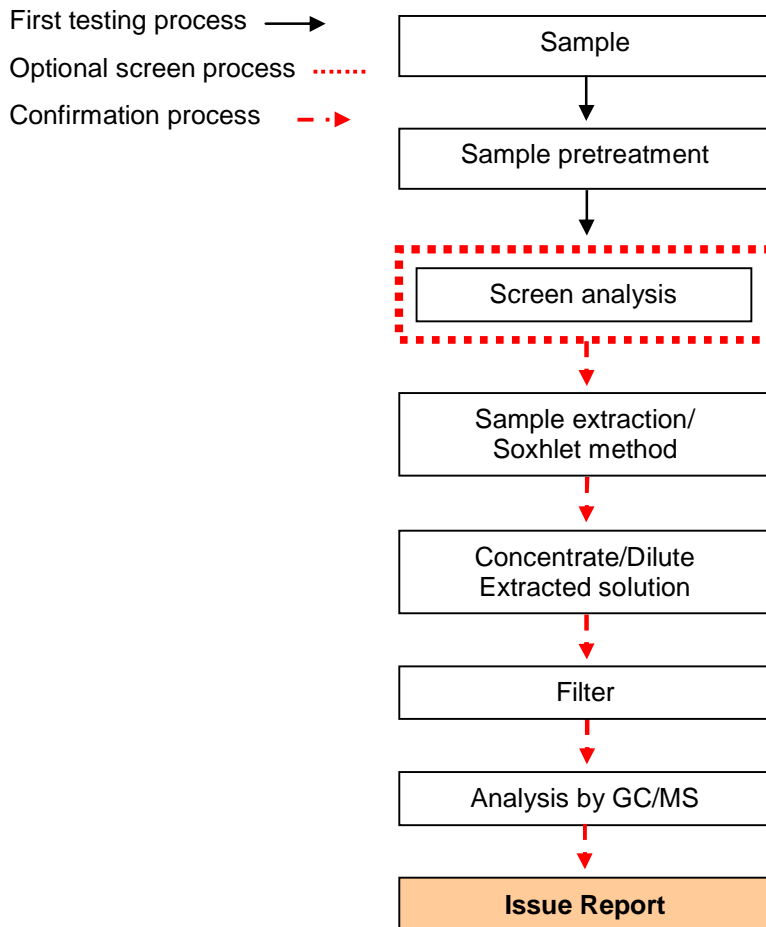
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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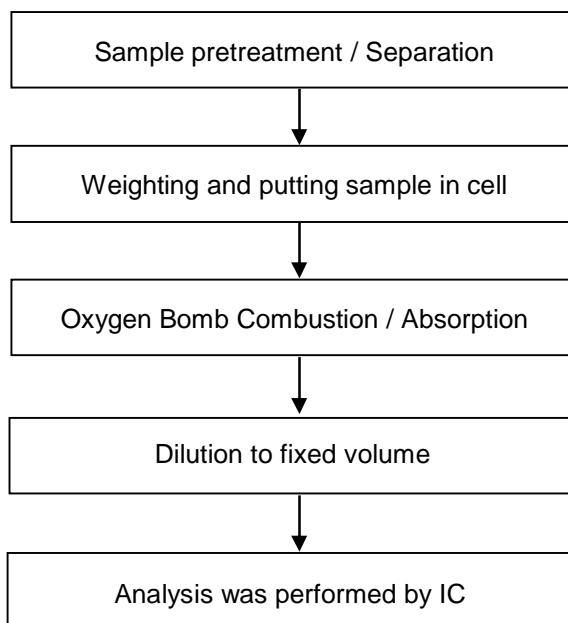
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PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Alan Chen
- 2) Name of the person in charge of measurement: Troy Chang



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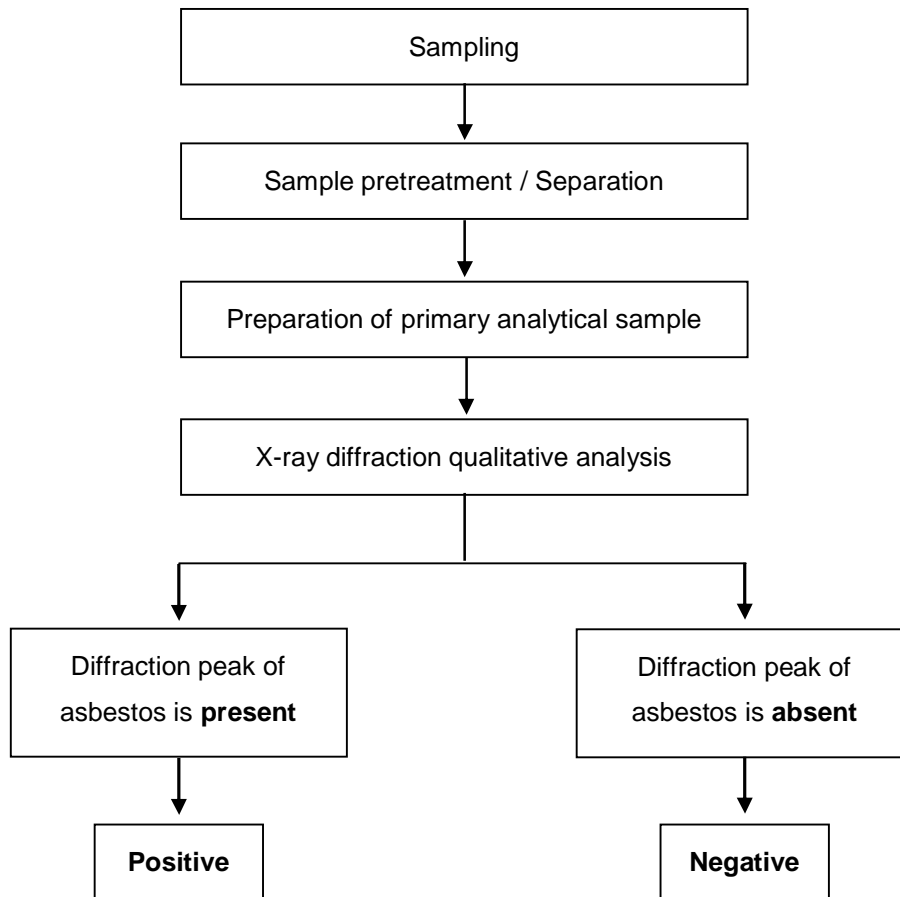
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PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



Analysis flow chart for determination of Asbestos

- 1) Name of the person who made measurement: Victor Kao
- 2) Name of the person in charge of measurement: James Lu



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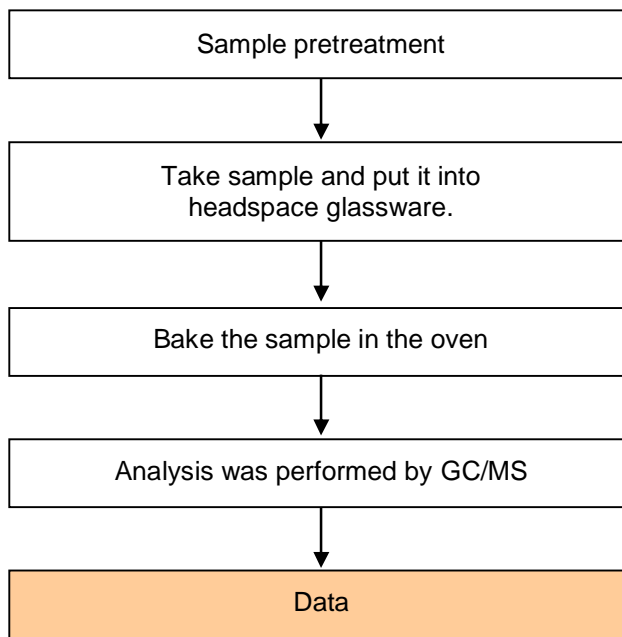
PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



Analytical flow chart of volatile organic compounds (VOCs)

- 1) Reference method : US EPA 5021
- 2) Name of the person who made measurement : Dalki Yen
- 3) Name of the person in charge of measurement : Shinjyh Chen



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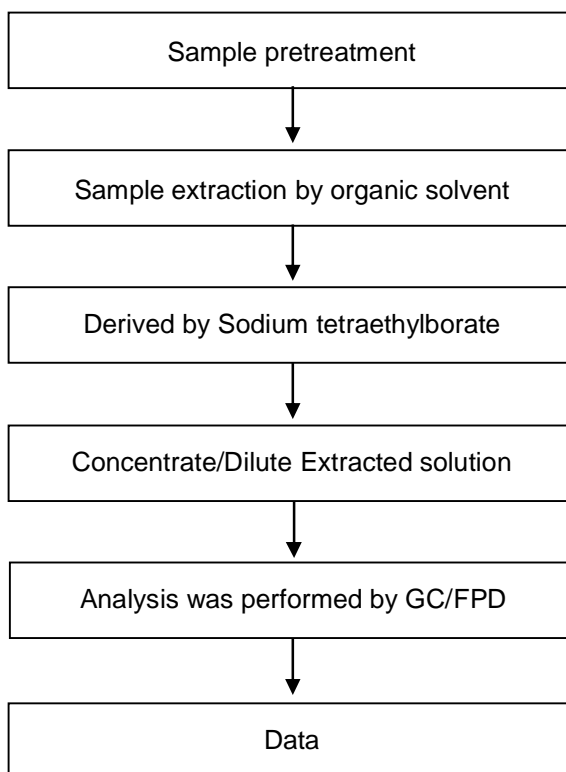
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PHILIPPINES 4027

Tel (049) 545-6350 Fax (049) 545-6934



Analytical flow chart of Organic-Tin content

- 1) Name of the person who made measurement: Vita Tu
- 2) Name of the person in charge of measurement: Shinjyh Chen



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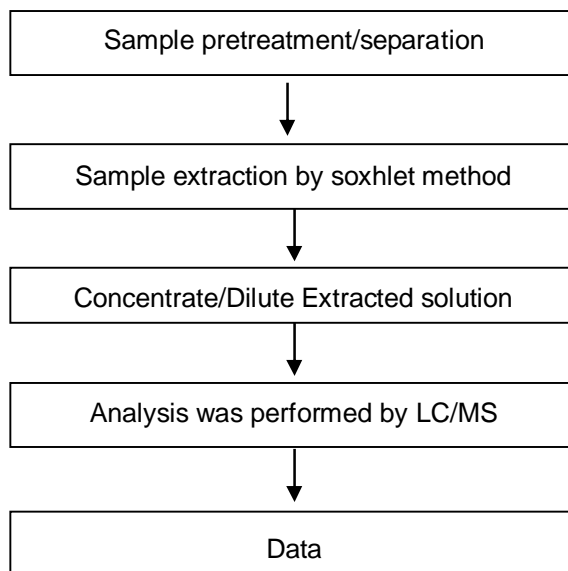
Tel (049) 545-6350 Fax (049) 545-6934



Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA 、 Benzotriazole



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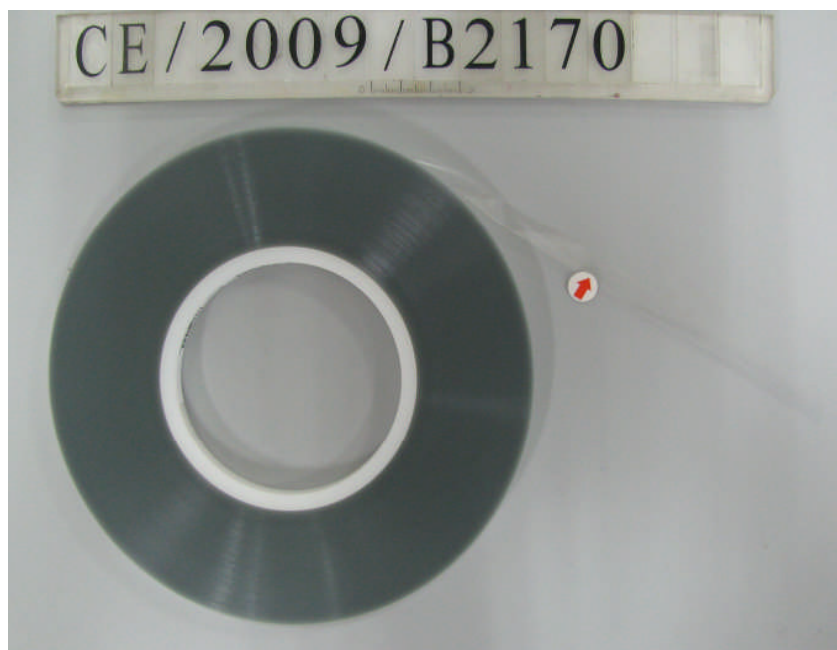
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** End of Report **

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