



THE INDUSTRIAL ANALYSIS SERVICE LTD.

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2-11-7 Yatsuka Souka Saitama 340-0028 Japan

TEST REPORT

Request No. -
Report No. ES230000005512-01
Date of issue: 30 November 2023

To. KYOCERA Corporation

Address: 1 Mikata Ayabe Kyoto Japan

Name of sample: Plating copper (KYOCERA Ayabe)

Date of receipt of sample: 21 November 2023

Measurement days: 21 November 2023 ~ 30 November 2023

The following is the report on the requested test of the sample

| Test Items | Unit | Test result | D.L. | Test Method |
|---|------|-------------|------|---|
| Cd | ppm | N.D. | 2.0 | With reference to IEC62321-5(2013) ICP/MS |
| Pb | ppm | N.D. | 5.0 | With reference to IEC62321-5(2013) ICP/MS |
| Cr(VI) | ppm | N.D. | 1.0 | With reference to IEC62321-7-1(2015) Boiling water extraction/UV-VIS |
| Hg | ppm | N.D. | 5.0 | With reference to IEC62321-4(2013)/AMD1(2017) ICP/MS |
| PBBs | ppm | N.D. | 10 | With reference to IEC62321-6(2015) GC/MS |
| PBDEs | ppm | N.D. | 10 | With reference to IEC62321-6(2015) GC/MS |
| Bis(2-ethylhexyl) phthalate (DEHP) | ppm | N.D. | 50 | With reference to IEC62321-8(2017) GC/MS |
| Butylbenzyl phthalate (BBP) | ppm | N.D. | 50 | With reference to IEC62321-8(2017) GC/MS |
| Dibutyl phthalate (DBP) | ppm | N.D. | 50 | With reference to IEC62321-8(2017) GC/MS |
| Diisobutyl phthalate (DIBP) | ppm | N.D. | 50 | With reference to IEC62321-8(2017) GC/MS |
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Note: The results shown in this test report refer only to the sample(s) tested.
DL=Determination Limit

N.D. means the analysis result is less than fixed quality lower limit level calculated according to our established precision management condition.
mg/kg=ppm

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TAKANORI YOSHIDA

| Test Items | Unit | Test result | D.L. | Test Method |
|--|------|-------------|------|--|
| Monobromobiphenyl (MonoBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Dibromobiphenyl (DiBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Tribromobiphenyl (TriBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Tetrabromobiphenyl (TetraBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Pentabromobiphenyl (PentaBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Hexabromobiphenyl (HexaBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Heptabromobiphenyl (HeptaBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Octabromobiphenyl (OctaBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Nonabromobiphenyl (NonaBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Decabromobiphenyl (DecaBB) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| SUM PBBs | ppm | N.D. | 10 | With reference to IEC62321-6(2015) GC/MS |
| Monobromodiphenylether (MonoBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Dibromodiphenylether (DiBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Tribromodiphenylether (TriBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Tetrabromodiphenylether (TetraBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Pentabromodiphenylether (PentaBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Hexabromodiphenylether (HexaBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Heptabromodiphenylether (HeptaBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Octabromodiphenylether (OctaBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Nonabromodiphenylether (NonaBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| Decabromodiphenylether (DecaBDE) | ppm | N.D. | - | With reference to IEC62321-6(2015) GC/MS |
| SUM PBDEs | ppm | N.D. | 10 | With reference to IEC62321-6(2015) GC/MS |
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Note: The results shown in this test report refer only to the sample(s) tested.

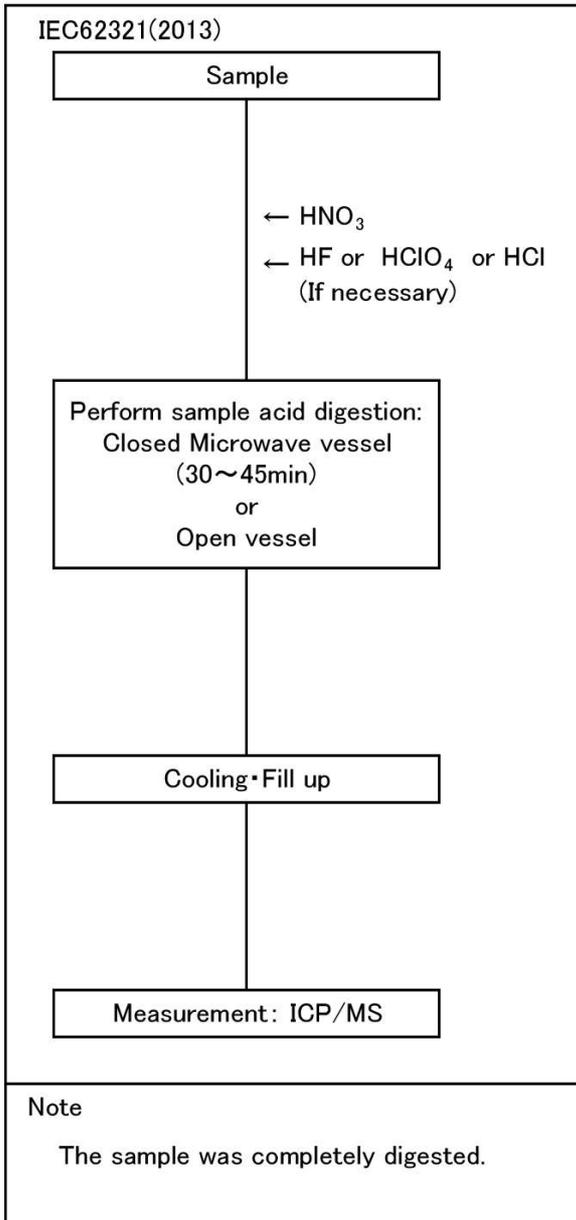
N.D. means the analysis result is less than fixed quality lower limit level calculated according to our established precision management condition.
mg/kg=ppm



Flow chart

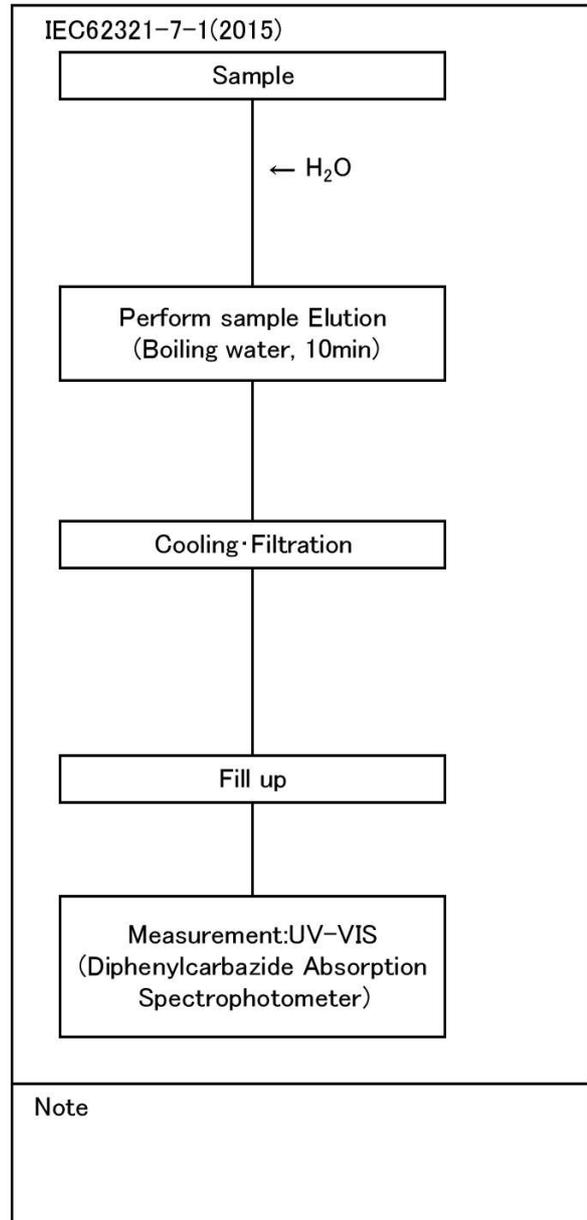
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|------------------|---------------------------------------|
| Report No. | : ES230000005512-01 |
| Measurement days | : 21 November 2023 ~ 30 November 2023 |
| Operator | : Kensho Nakajima Wataru Imaoka |

Cd, Pb, Hg



ICP/MS : Agilent Technologies 7700X

Cr (VI)



UV-VIS : HITACHI High-Technologies U-2910

Flow chart

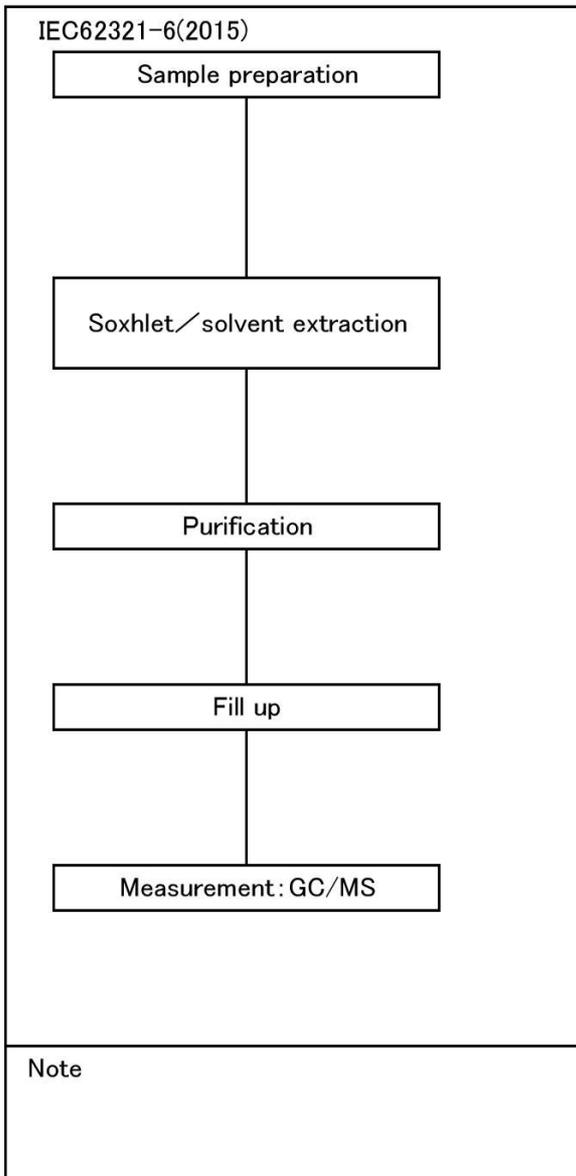
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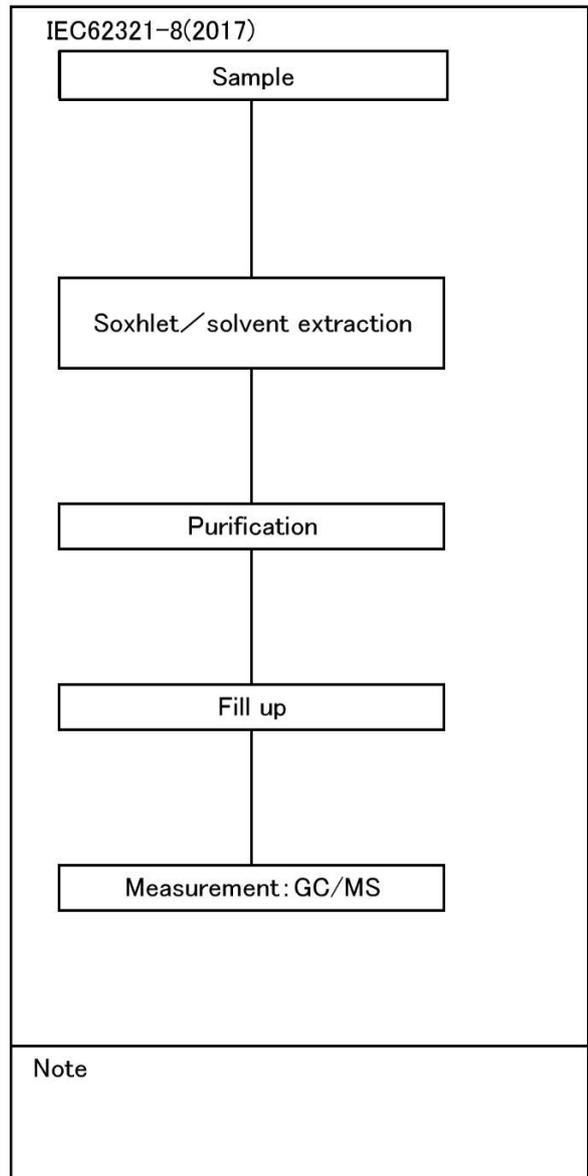
Operator : Yuichi Kuboji

PBBs, PBDEs

phthalates



GC/MS: Agilent Technologies GC 7890B MS 5977A



GC/MS : SHIMADZU GCMS-QP2020

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