The following sample(s) was/were submitted and identified on behalf of the clients as: USB Wireless Adapter

SGS Job No.: CP15-010949 - SZ
Model No.: GWF-3S03
Date of Sample Received: 12 Mar 2015
Test Requested: Selected test(s) as requested by client.
Test Method: Please refer to next page(s).
Test Results: Please refer to next page(s).

Echo Yeung
Approved Signatory
Test Results:

Test Part Description:

Specimen No.  SGS Sample ID  Description
SN1      CAN15-032846.009  "USB Wireless Adapter" (mixed)

Remarks:

1. 1 mg/kg = 1 ppm = 0.0001%
2. MDL = Method Detection Limit
3. ND = Not Detected (< MDL )
4. "-" = Not Regulated

Elementary Analysis & Flame Retardants

Test Method: 
1. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
2. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
3. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
5. With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>Unit</th>
<th>MDL</th>
<th>009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>mg/kg</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>mg/kg</td>
<td>2</td>
<td>40</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>mg/kg</td>
<td>2</td>
<td>ND</td>
</tr>
<tr>
<td>Hexavalent Chromium (CrVI)</td>
<td>mg/kg</td>
<td>2</td>
<td>ND</td>
</tr>
<tr>
<td>Sum of PBBs</td>
<td>mg/kg</td>
<td>-</td>
<td>ND</td>
</tr>
<tr>
<td>Monobromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Dibromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tribromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tetrabromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Pentabromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Hexabromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Heptabromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Octabromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Nonabromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Decabromobiphenyl</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Sum of PBDEs</td>
<td>mg/kg</td>
<td>-</td>
<td>ND</td>
</tr>
<tr>
<td>Monobromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
</tbody>
</table>
## Test Report

**Test Item(s)**: Dibromodiphenyl ether, Tribromodiphenyl ether, Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether, Octabromodiphenyl ether, Nonabromodiphenyl ether, Decabromodiphenyl ether

**Unit**: mg/kg

**MDL**: 5

**Result**: ND

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## Phthalate


<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>CAS NO.</th>
<th>Unit</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibutyl Phthalate (DBP)</td>
<td>84-74-2</td>
<td>%(w/w)</td>
<td>0.003</td>
</tr>
<tr>
<td>Benzybutyl Phthalate (BBP)</td>
<td>85-68-7</td>
<td>%(w/w)</td>
<td>0.003</td>
</tr>
<tr>
<td>Bis(2-ethylhexyl) Phthalate (DEHP)</td>
<td>117-81-7</td>
<td>%(w/w)</td>
<td>0.003</td>
</tr>
<tr>
<td>Diisobutyl Phthalate (DIBP)</td>
<td>84-69-5</td>
<td>%(w/w)</td>
<td>0.003</td>
</tr>
</tbody>
</table>

### Notes:

- Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:
  1. Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
  2. Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.

### Remark:

The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.
Test Report

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ATTACHMENTS

RoHS Testing Flow Chart

1) Name of the person who made testing: Bruce Xiao / Sunny Hu
2) Name of the person in charge of testing: Bella Wang / Cutey Yu
3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).

Sample Preparation

Sample Measurement

Pb/Cd/Hg
Acid digestion with microwave/ hotplate
Filtration
Solution
Residue
1) Alkali Fusion / Dry Ashing
2) Acid to dissolve
ICP-OES/AAS
DATA

PBBs/PBDEs
Sample solvent extraction
Concentration/ Dilution of extraction solution
Filtration
GC-MS
DATA
Nonmetallic material
Adding digestion reagent
Heating to 90~95℃ for extraction
Filtration and pH adjustment
Adding 1,5-diphenylcarbazide for color development
UV-Vis
DATA
Metallic material
Spot test
Boiling water extraction
Adding 1,5-diphenylcarbazide for color development
A red color indicates the presence of Cr⁶⁺. If necessary, confirm with UV-Vis.
DATA

Cr⁶⁺
ATTACHMENTS

Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu
2) Name of the person in charge of testing: Cutey Yu

Sample cutting / preparation

Sample Measurement

Solvent extraction

Concentration/Dilution

Filtration

GC-MS

DATA
Test Report

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Sample photo:

![Sample photo](image)

CANEC1503284609

CAN15-032846.009

SGS authenticate the photo on original report only

*** End of Report ***