

Test Report No. SHAEC2118361431 Date: 10 Sep 2021 Page 1 of 9

Suzhou Goodark Electronics Co.,Ltd

No.31 Tongxi Road, TongAn Economic Development Zone, Suzhou, P.R. China

The following sample(s) was/were submitted and identified on behalf of the clients as: ESGA SKY

Halogen-Free product

SGS Job No. : SP21-026971 - SUZ

Model No.: ESGA SKY

Client Ref. Information: ESGA ESGA ESGB ESGC ESGD ESGP ISGA ISGP SKY (Halogen-Free)

products

Main Substance : Cu,Sn,Epoxy Resin

Date of Sample Received: 26 Aug 2021

Testing Period : 26 Aug 2021 - 09 Sep 2021

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).

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Carol Luo

Approved Signatory





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Test Report No. SHAEC2118361431 Date: 10 Sep 2021 Page 2 of 9

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 SHA21-183614.032 Black body with silvery pin(mix all*)

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

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

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>032</u> |
|------------------------------|--------------|-------------|------------|------------|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | 27718▲ |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| Sum of PBBs | 1000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| | | | | |



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| No. SHAEC211836143 | 31 | Date: 1 | 10 Sep 2021 | Page 3 of 9 |
|--------------------|-----------------|---|--|---|
| <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>032</u> | |
| - | mg/kg | 5 | ND | |
| - | mg/kg | 5 | ND | |
| - | mg/kg | 5 | ND | |
| - | mg/kg | 5 | ND | |
| - | mg/kg | 5 | ND | |
| - | mg/kg | 5 | ND | |
| 1000 | mg/kg | 50 | ND | |
| 1000 | mg/kg | 50 | ND | |
| 1000 | mg/kg | 50 | ND | |
| 1000 | mg/kg | 50 | ND | |
| | Limit 1000 1000 | - mg/kg 1000 mg/kg 1000 mg/kg | Limit Unit MDL - mg/kg 5 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50 | Limit Unit MDL 032 - mg/kg 5 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND |

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) 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.
- (3) According to the declaration from the client, Lead (Pb) in No.032 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

Halogen

Test Method: With reference to EN 14582: 2016, analysis was performed by IC.

| Test Item(s) | <u>Unit</u> | <u>MDL</u> | <u>032</u> |
|---------------|-------------|------------|------------|
| Fluorine (F) | mg/kg | 50 | ND |
| Chlorine (CI) | mg/kg | 50 | ND |
| Bromine (Br) | mg/kg | 50 | ND |
| lodine (I) | mg/kg | 50 | ND |

^{*}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.



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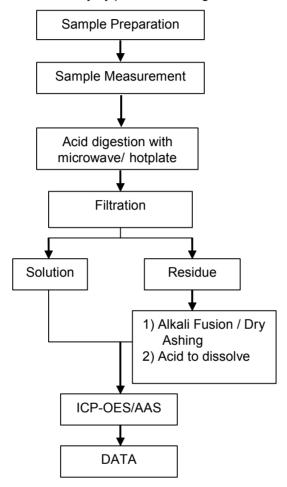
Page 4 of 9

Date: 10 Sep 2021

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Elements (IEC62321) Testing Flow Chart

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





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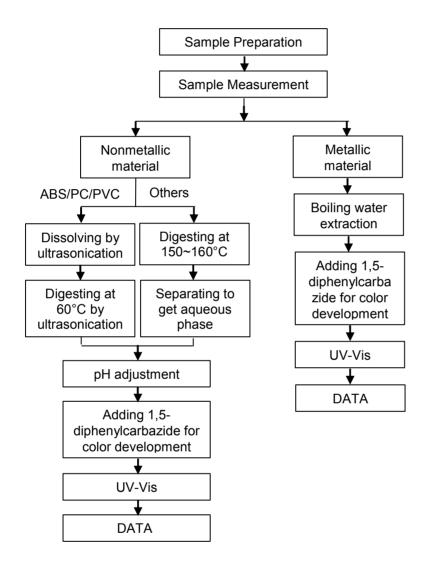
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Page 5 of 9

Date: 10 Sep 2021

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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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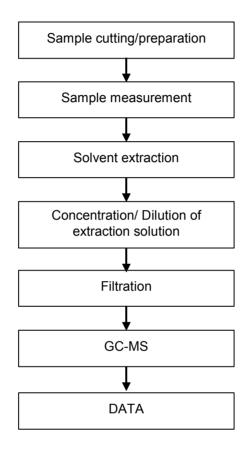
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No. SHAEC2118361431

Page 6 of 9

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PBBs/PBDEs Testing Flow Chart





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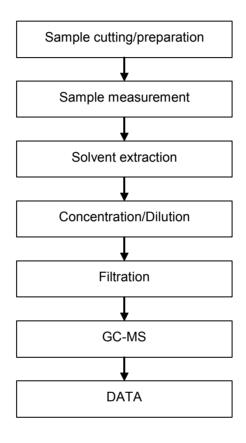
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No. SHAEC2118361431

Page 7 of 9

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Phthalates Testing Flow Chart





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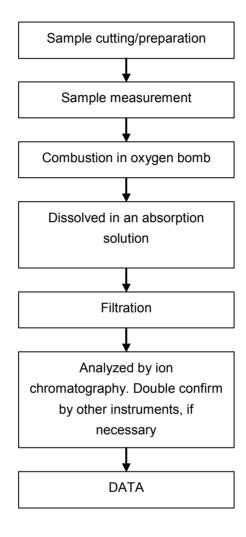
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Page 8 of 9

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Halogen Testing (oxygen bomb) Flow Chart





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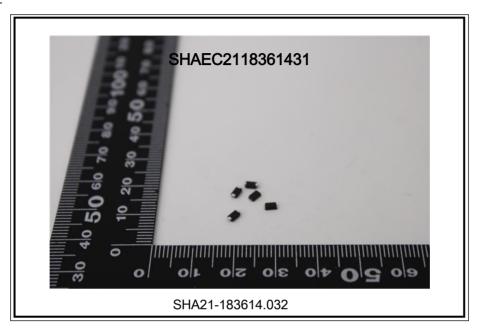
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