

Test Report



Report No. A2240427078101004R1

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Company Name shown on Report YANGZHOU YANGJIE ELECTRONIC TECHNOLOGY CO., LTD.

Address NO.6 WEST HEYE ROAD, HANJIANG DISTRICT, YANGZHOU, JIANGSU, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name Semiconductor component
Sample Received Date Jul. 18, 2024
Testing Period Jul. 18, 2024 to Jul. 24, 2024

Test Requested As specified by client, to test Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Naphthalenes (PCNs), Polychlorinated terphenyls (PCTs), Polychlorinated Biphenyls(PCBs), Tetrabromobisphenol A (TBBP-A), Red phosphorus in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).



Approved by



Chen kaimin
Lab Manager

Date

Aug. 1, 2024

No. R475311682

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No.1351, Wanfang Road, Minhang District, Shanghai, China

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK	GC-MS
Polychlorinated Naphthalenes (PCNs)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018*	GC-MS
Polychlorinated terphenyls (PCTs)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018*	GC-MS
Polychlorinated Biphenyls(PCBs)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018*	GC-MS
Tetrabromobisphenol A (TBBP-A)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007*	LC-MS-MS/LC-MS
Red phosphorus*	Refer to GB/T 6040-2002, GB/T 9722-2006, GB/T 17359-2012, EPA 6010D:2014	ICP-OES, PY-GC-MS, FTIR, EM

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Test Result(s)

Tested Item(s)	Result	MDL
	004	
Polycyclic Aromatic Hydrocarbons (PAHs)		
Naphthalene	N.D.	0.2 mg/kg
Phenanthrene	N.D.	0.2 mg/kg
Anthracene	N.D.	0.2 mg/kg
Fluoranthene	N.D.	0.2 mg/kg
Pyrene	N.D.	0.2 mg/kg
Chrysene	N.D.	0.2 mg/kg
Benzo(a)anthracene	N.D.	0.2 mg/kg
Benzo(b)fluoranthene	N.D.	0.2 mg/kg
Benzo(k)fluoranthene	N.D.	0.2 mg/kg
Benzo(j)fluoranthene	N.D.	0.2 mg/kg
Benzo(a)pyrene	N.D.	0.2 mg/kg
Benzo(e)pyrene	N.D.	0.2 mg/kg
Dibenzo(a,h)anthracene	N.D.	0.2 mg/kg
Benzo(g,h,i)perylene	N.D.	0.2 mg/kg
Indeno(1,2,3-cd)pyrene	N.D.	0.2 mg/kg
Sum (Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	/
Sum 15 PAHs	N.D.	/
Tested Item(s)	Result	MDL
	004	
Polychlorinated Naphthalenes (PCNs)	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
	004	
Polychlorinated Triphenyls (PCTs)	N.D.	5 mg/kg

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Test Result(s)

Tested Item(s)	Result	MDL
	004	
Polychlorinated Biphenyls(PCBs)		
Monochlorobiphenyl	N.D.	5 mg/kg
Dichlorobiphenyl	N.D.	5 mg/kg
Trichlorobiphenyl	N.D.	5 mg/kg
Tetrachlorobiphenyl	N.D.	5 mg/kg
Pentachlorobiphenyl	N.D.	5 mg/kg
Hexachlorobiphenyl	N.D.	5 mg/kg
Heptachlorobiphenyl	N.D.	5 mg/kg
Octachlorobiphenyl	N.D.	5 mg/kg
Nonachlorobiphenyl	N.D.	5 mg/kg
Decachlorobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
	004	
Tetrabromobisphenol A (TBBP-A)	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
	004	
Red phosphorus*	N.D.	500 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	004	Black body(Tested as a whole)

Remark: The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

Note: “*” indicates the item(s)/method(s) is (are) not in CNAS accreditation scope. This testing report added “Appendix” based on the original report of No. A2240427078101004. This testing report displaces the original one which was invalid since the date of this testing report released.

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Maximum PAHs limits (mg/kg) for the materials with relevant contact/grip and operating surfaces that are to be categorised based on the results of the risk assessment

Parameters	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth or materials in toys according to Directive 2009/48/EC or materials for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact** with skin during the intended or foreseeable use		Materials not covered by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use	
		Use by children (< 14 years) (include both active and passive direct contact)	Other consumer products	Use by children (< 14 years) (include both active and passive direct contact)	Other consumer products
Benzo(a)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indenol(1,2,3-cd)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene, Anthracene, Fluoranthene, Pyrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene	< 1	< 2		< 10	
Sum 15 PAHs	< 1	< 5	< 10	< 20	< 50

** Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (REGULATION (EU) No.1272/2013)

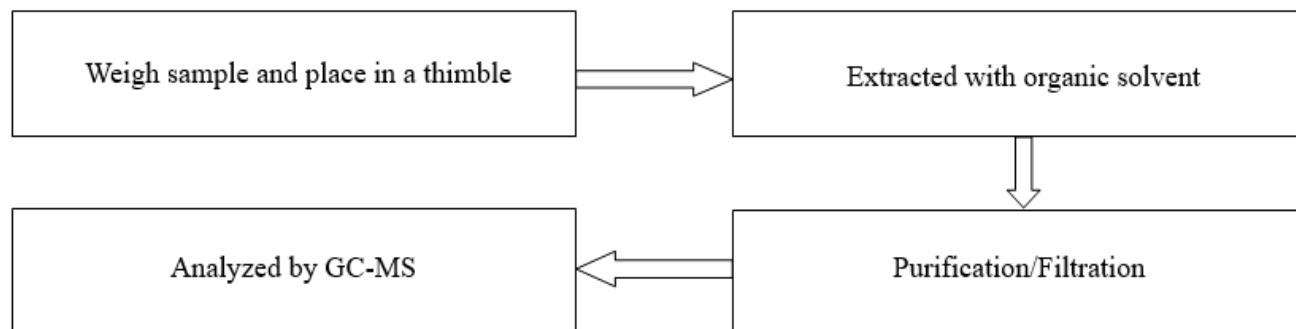
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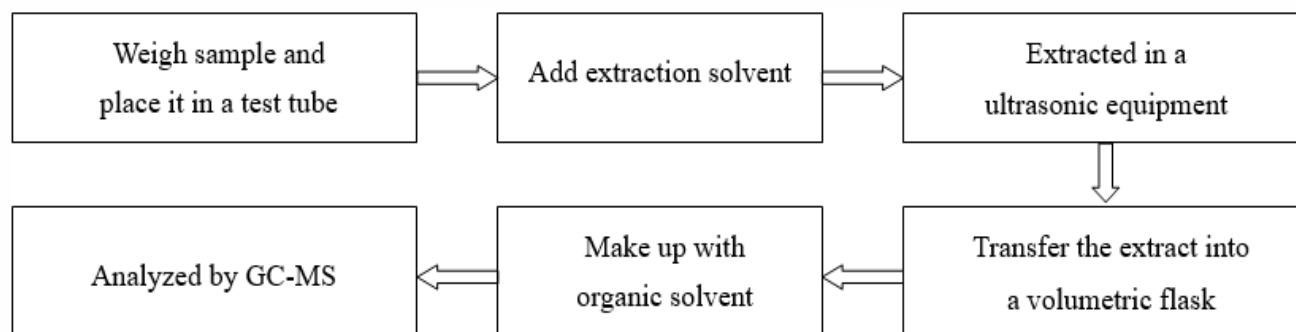
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Test Process

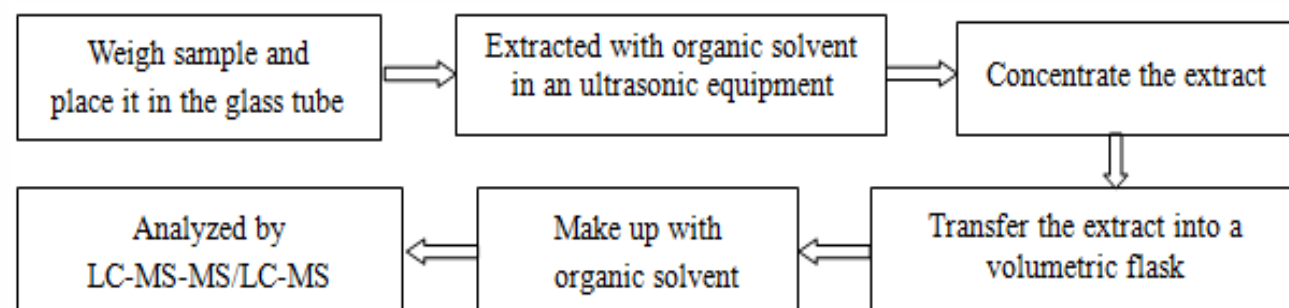
1. Polycyclic Aromatic Hydrocarbons (PAHs)



2. Polychlorinated Naphthalenes (PCNs), Polychlorinated terphenyls (PCTs), Polychlorinated Biphenyls(PCBs)



3. Tetrabromobisphenol A (TBBP-A)

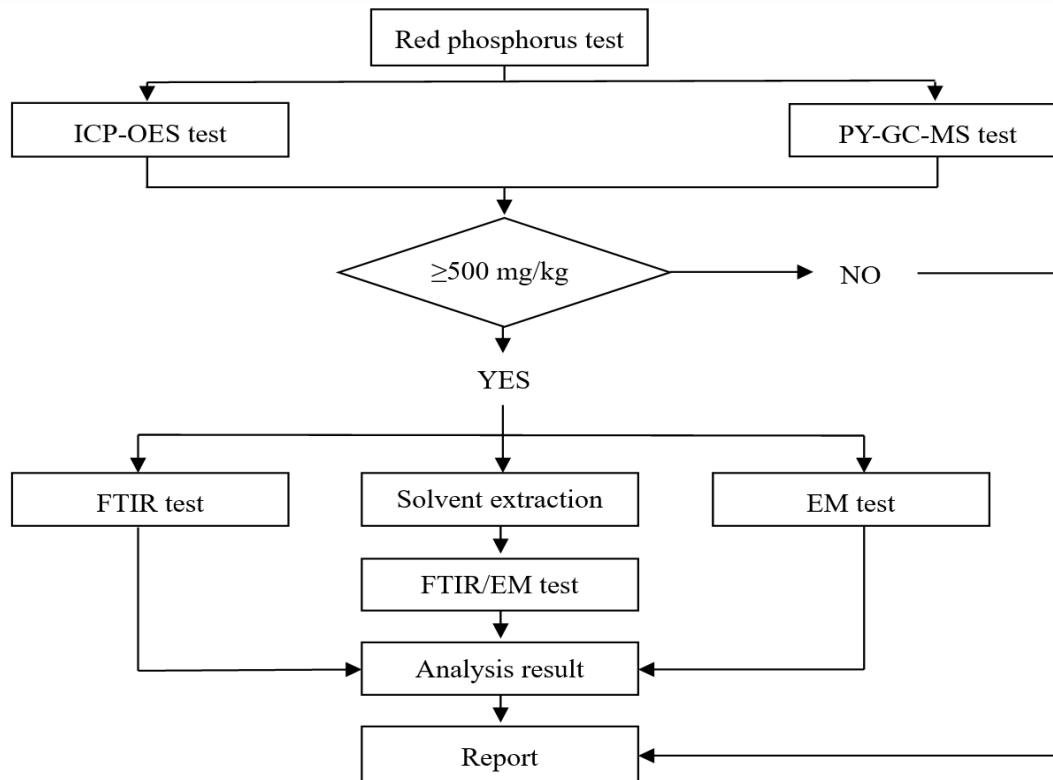


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4. Red phosphorus

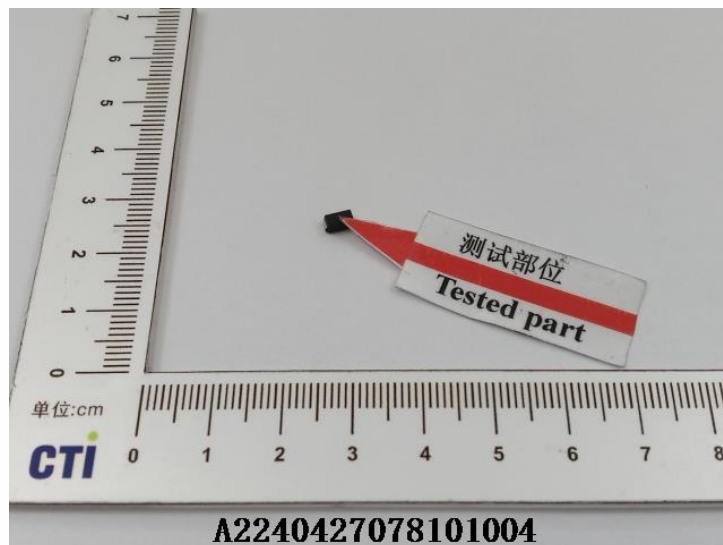


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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Appendix

Client Reference Information

R-1、A-405、DO-41、DO-15、DO-15L、DO-201AD、DO-201AE、R-6、SMA-W、YJ-41、2KBJ、4KBJ、6KBJ、PB、ABS、D3K、DBS、DB、DBLS、DBL、GBP、GBU、JA、JB、JC、MBLS、MBS、YBS2、YBS3、YBS3mini、YBS6、YBS2G、KBP、KBU、KBL、TSB、GBPC(W)、GBPC、BR-W、BR、KBPC-W、KBPC25/35/50、KBPC1、KBPC6、KBPC8、BR-L、SKBPC、MT35-A、RS2、SBR25、M130、M140、MT、MT-B、PTVS、S25VB、S35VB、SMA、SMB、SMC、SOD123FL、SOD323FL、SOD123HE、SOD323HE、SMAF、SMBF、SMG、SME、TO-277、SOD-323S、DO-218、TO-263、TO-263L、TO-263-6L、TO-252、TO-220AB、TO-220AC、ITO-220AB、ITO-220AC、R6、TO-247、TO-247AB、TO-247AC、TO-247Plus、TO-247-4L、TO-247-2L、GFO19、GF020、GF023、GF025、GF030K、GF030U、GF040、GF040C、GF040H、GFS、GF009、SOT-223、SOT-89、TOLL、PDFN5060、PDFN5060-8L、TO-220、TO-220F、TO-251S、TO-92、TO-247AD、STO-220、SOT-23-6L、SOT-23、SOT-363、SOT-323、SOT-523、SOT-563、SOT-723、SOT-223、SOT-89、SOD-123、SOD-323、SOD-523、SOP-8、SOT23-3L、SOT-353、SOT-553、SOT-343、SOD-882、MFN-9-1、SOP-7、SOD-723、DFN1006-2L、DFN1006-3L、DFN2710-10L、DFN2510-10L、DFN3333、DFN2030-6、DFN2020、DFN2020-6L、DFN5060-8L、DFN2020-3L、DFN2030-8L、DFN0603-2L、DFN1610-2L、DFN2510、QFN6060-48L、QFN4040-20L、QFN3030-16L、QFN6050-10L

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2240427078101004R1.