

## Test Report No.: SZXEC25000069801 Date: Jan 14, 2025 Page 1 of 7

#### Client Name: JIANGSU GOOD WORK MICROELECTRONIC TECHNOLOGY CO., LTD.

## Client Address: BUILDING 1, NO. 3 GANJIANG ROAD, YANCHENG ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, YANCHENG CITY, JIANGSU PROVINCE

Sample Name:	Semiconductor Component
Model No.:	1N4007WS
Client Ref. Information:	SMA SMAF SMB SMBF SMC SOD123 SOD123FL SOD323 SOD523 SOD923 SOT-23 SOT23-3L SOT323 SOT523 SOT89 SOT223 DFN0603 DFN1006 DFN1610 DFN3*3 DFN5*6 TO-277 TO-252 TO-263 TO252-4L TO-220 TO-220AB TO-220AC ITO-220AB ITO-220AC TO-247 TO-3P A-405 DO-15 DO-27 DO-35 DO-41 R-1 R-3 R-6 LL34 MBF MBM MBS MDS LBS ABS TBS ABF UMB UMSB KMBF ULBF HBS DBS D3K DB-1 KBP KBL GBL GBJ KBJ KBU GBU WOL GBP KBPC3-8A KBPC10-50A GBPC GBPC-W KBPC-W S25-VB BR-35 SKBPC SOP-8 SMD-4 DIP-4 DO-213AA DO-213AB DO-218AB GF5045 TO-92 TO-126 TO-251 PDFN3*3 PDFN5*6 SOP-4 SOT23-6 eSOP-8 SOP-16 eTSSOP-20 MSOP-8 TSSOP-14 SOT23-5 QFN-16 MSOP-10 TSSOP-20 TSSOP-28 TSSOP-16 TSSOP-24 QFN-32 QFN-40

The above sample(s) and information were provided by the client.

Test Descriptions and		<b>O</b>
Test Result(s):	Please refer to next page(s).	
Test Method(s):	Please refer to next page(s).	
Test Requested:	Select test(s) as requested by the client.	
Testing Period:	Jan 08, 2025 ~ Jan 14, 2025	
Sample Receiving Date:	Jan 08, 2025	
SGS Job No.:	SZP25-001067	

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls	
(PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate	Pass
(DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl	
phthalate (DIBP)	

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford

Ford Shi Approved Signatory





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## **Test Report**

#### No.: SZXEC25000069801

Date: Jan 14, 2025

#### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX25-0000698-0001.C001	"Semiconductor Component"

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

#### EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

# **Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	2	64383▲
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND



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Room 101-907, Plant 44 Broom 1017, Plant 24 Broom 1017, Plant 34 Broom 301-5017, Plant 34, Bro



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Test Item(s)		Limit	Unit(s)	MDL	A1
Octabrominated dipher (OctaBDE)	lyl ether	-	mg/kg	25	ND
Nonabrominated diphe (NonaBDE)	nyl ether	-	mg/kg	25	ND
Decabrominated dipher (DecaBDE)	nyl ether	-	mg/kg	25	ND
Di-2-Ethyl Hexyl Phthal	ate (DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate	(BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP	)	1000	mg/kg	50	ND
Diisobutyl Phthalate (D	IBP)	1000	mg/kg	50	ND

#### Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) 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.

Remark ▲: According to the declaration from the client, Lead (Pb) 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).

More information about exemption can be found via the following link:

https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf

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.



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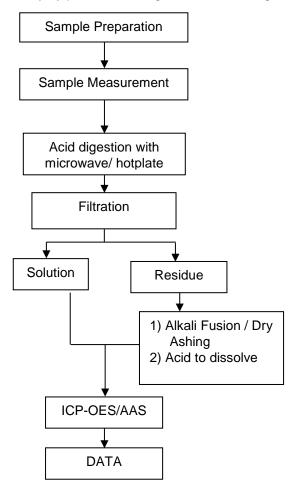
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#### **Elements Testing Flow Chart**

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





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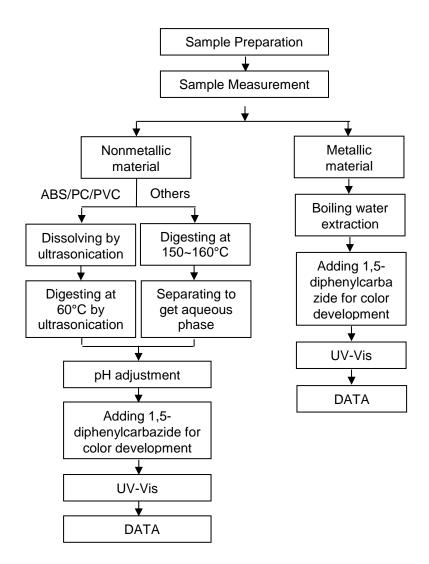
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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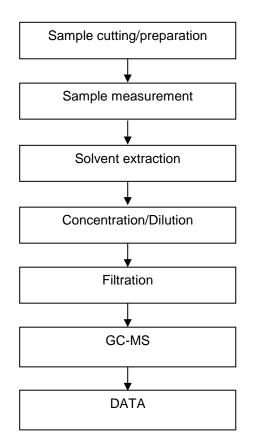


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#### **PBB/PBDE/Phthalates Testing Flow Chart**

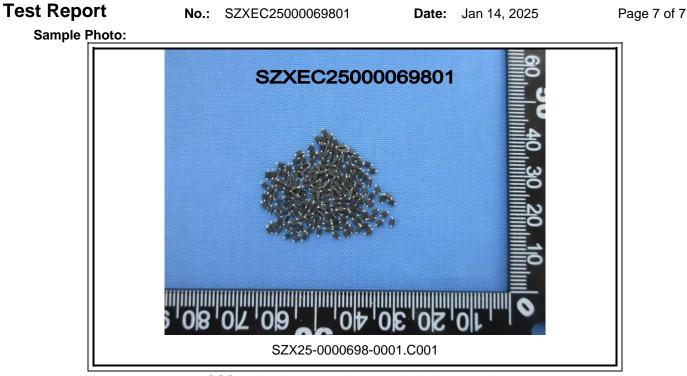




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