

Test Report No. SHAEC2104269304 Date: 22 Mar 2021 Page 1 of 9

LEADEMC ELECTRONICS CO.,LTD.

207-209, BUILDING A, XINQIAO BUSINESS CENTER, 2163 WANYUAN ROAD, MINHANG DISTRICT, SHANGHAI

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

SGS Job No.: SP21-006718 - SH

Model No.: SMC

Client Ref. Information : See attachment

Date of Sample Received : 15 Mar 2021

Testing Period: 15 Mar 2021 - 22 Mar 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.

has Yu

Lucy Yu

Approved Signatory





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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 SHA21-042693.002 Black body with silvery metal (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>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	12213▲
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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<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</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 002 - 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.002 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).
- According to the declaration from the client, Lead (Pb) in No.002 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(c)-I|: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

*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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The attachment

SMA, SMAF, SMB, SMBF, AK, AE, AKS, D0-15, D0-41, D0-201, P600

DO-214AA/AB/AC, DO-218AB/AC

0201, 0402, 0603, 0805, 1206, 1812

SOD123, SOD123FL, SOD323, SOD523, SOD923

DFN0603-2, DFN1006-2, DFN1006-3, DFN1610-2, DFN1610-6, DFN1616-6, DFN2020-3, DFN2510-10,

DFN2620-10, DFN3020-10, DFN4120-10, DFN3X2-8

SGP2010N5, S0-8, S0T143, S0T23, S0T23-5, S0T23-6, S0T363, S0T523, S0T553, S0T563, T0263,

T0252, T0277, MS0P10



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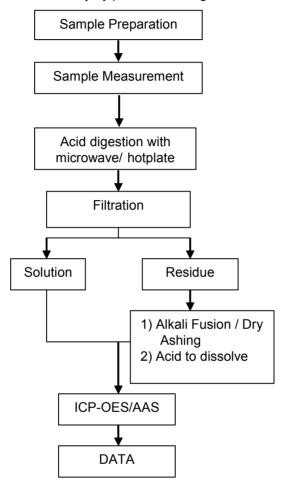
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Elements (IEC62321) Testing Flow Chart

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





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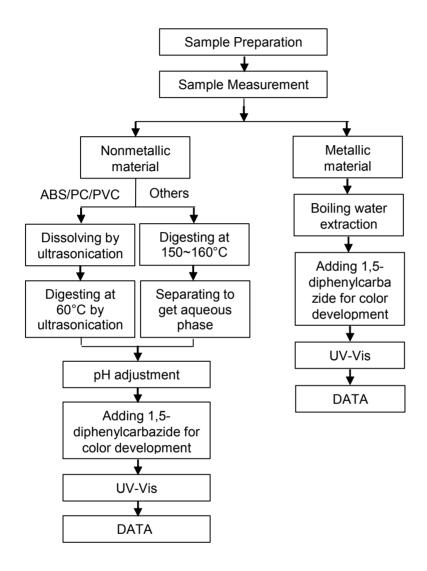
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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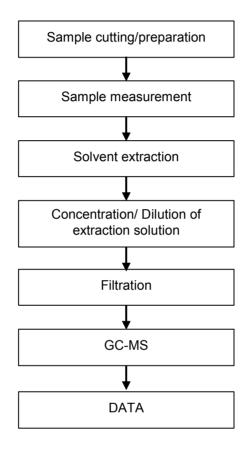


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PBBs/PBDEs Testing Flow Chart





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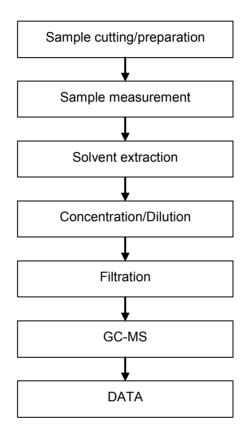
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Phthalates Testing Flow Chart





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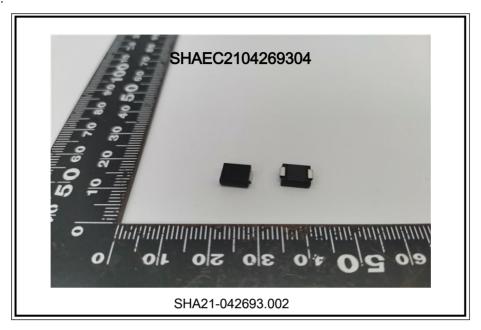


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