

Verification Report No.: XMNEC24001136101 **Date:** Jul 17, 2024 Page 1 of 8

Client Name: FuYanSheng Electronic (FuJian) Co., Ltd.

Client Address: 009, Area A1, Building 1, Science and Technology Innovation Center, National University

Science and Technology Park, No. 6 Qiuyang East Road, Shangjie Town, Minhou County,

Fujian Province, China

Sample Name: lo module

Tested Basic Model No.: FNI IOL-310-S01-K20

Client Ref. Information: FNI XXX-XXX-XXX, FNI XXX-XXX-XXX, FNI XXX-XXX-XXX-

XXX-X, FNI XXX-XXX-XXX-XXXX-X

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

SGS Job No.:

XMP24-002778

Sample Receiving Date:

Jun 19, 2024

Verification Period:

Jun 19, 2024 ~ Jul 03, 2024

Verification Requested:

With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method(s):

Please refer to next page(s).

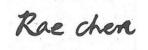
Verification Result(s):

Please refer to next page(s).

Test Result Summary:

Test Items	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. Xiamen Branch



Rae Chen

Approved Signatory





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Verification Method(s):

- 1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
 - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
 - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES,UV-Vis and GC-MS.



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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	XMN24-0011361-0001.C001	Green plastic shell
SN2	A2	XMN24-0011361-0001.C002	Green plastic frame
SN3	A3	XMN24-0011361-0001.C003	Silvery metal bolt
SN4	A4	XMN24-0011361-0001.C004	Green plastic shell
SN5	A5	XMN24-0011361-0001.C005	Black body
CNIC	A6	XMN24-0011361-0001.C006	White adhesive soft plastic sheet w/
SN6	Ab	XIVIN24-0011361-0001.C006	black printing
SN7	A7	XMN24-0011361-0001.C007	Silvery metal pin
SN8	A8	XMN24-0011361-0001.C008	Black body (small)
SN9	A9	XMN24-0011361-0001.C009	Black body (big)
SN10	A10	XMN24-0011361-0001.C010	Green "PCB"
SN11	A11	XMN24-0011361-0001.C011	Black body (big)
SN12	A12	XMN24-0011361-0001.C012	Black body (small)
SN13	A13	XMN24-0011361-0001.C013	Silvery metal solder
SN14	A14	XMN24-0011361-0001.C014	Black body (small)
SN15	A15	XMN24-0011361-0001.C015	Black body (big)



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Verification Result(s):

Unless otherwise specified, the unit is mg/kg.

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Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	ND	BL	BL	BL	BL	BL
PBBs	BL	BL		BL	BL	BL		BL
PBDEs	BL	BL		BL	BL	BL		BL
DEHP	BL	BL		BL	ND	ND		ND
BBP	BL	BL		BL	ND	ND		ND
DBP	BL	BL		BL	ND	ND		ND
DIBP	BL	BL		BL	ND	ND		ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15
Pb	BL	BL	BL	25389▲	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL
PBBs	ND	ND	BL	BL		BL	BL
PBDEs	ND	ND	BL	BL		BL	BL
DEHP	ND	ND	ND	ND		ND	ND
BBP	ND	ND	ND	ND		ND	ND
DBP	ND	ND	ND	ND		ND	ND
DIBP	ND	ND	ND	ND		ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-1:2013 Annex A as below table.

Element	Polymers	Metals	Composite Materials	
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>	
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>	
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>	
Br	BL ≤ (300-3σ)< X	Not applicable	BL ≤ (250-3σ)< X	
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X	

- (b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".
- (c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL= Over Limit, IN (The symbol X marks the region)=Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.
- (d) The EDXRF screening test for elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

- (3) Interpretation of results by chemical tests:
 - (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.
 - (b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg. MDL of Cr(VI) for metal sample is 0.10 µg/cm².

(c) ▼ =Metal sample

- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain Cr(VI).
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 $\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating
- c. The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus



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Cr(VI) results represent status of the sample at the time of testing.

- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.
- (6) ▲ According to the declaration from the client, Lead (Pb) in A13 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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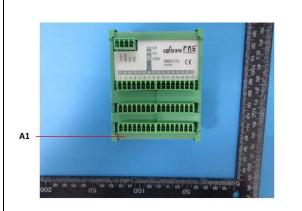
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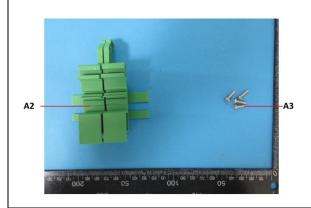


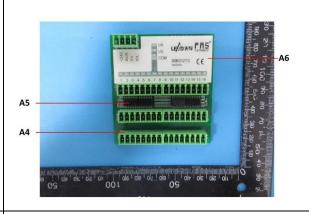
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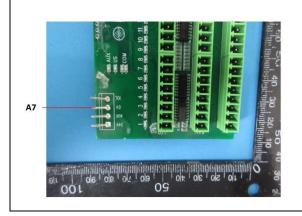
Sample photos:















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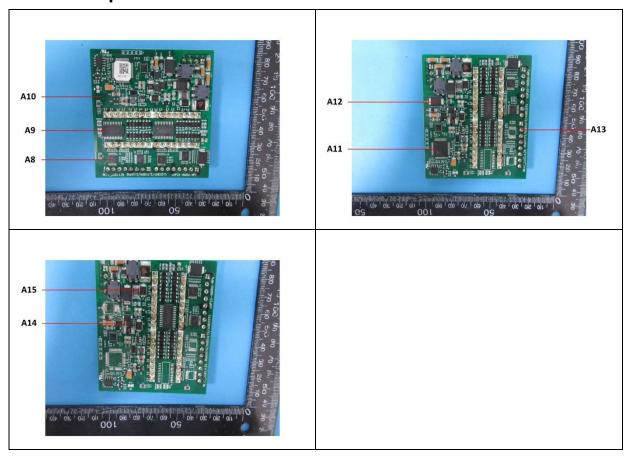
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SGS authenticate the photo on original report only *** End of Report **



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