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ROHS TEST REPORT

Report Reference No : DER090323006109

Applicant : Shenzhen Shiji Lighting Co.,Ltd

Address : 3F, Building A, Chuangfu Science and Technology Park, 202 Shihuan Road,

Shiyan Street, Baoan District, Shenzhen, Guangdong, China

Report on the submitted sample said to be:

Sample Name : Led Point Light/Led module

Trade Mark : N/A

Model No. : See model list on the page 2

Sample Received Date : May 05, 2022

Testing Period : May 09, 2022 to May 10, 2022

Test location : Shenzhen DE Certification Lab Co., Ltd.

Room 202, Building 3, Xinnantian Industrial Area, No.106, Danzi Road, Laokeng Community, Longtian Street, Pingshan District, Shenzhen,

Guangdong, China

Test F	Requested	Result
1	As specified by the client, to determine Pb, Cd, Hg, Cr(VI), PBBs&&PBDEs content in the submitted sample in accordance with EU Directive 2011/65/EU (ROHS 2.0) and to determine DIBP, DEHP, DBP&&BBP content in the submitted sample in accordance with EU Directive 2015/863 (RoHS, Previously 2002/95/EC).	Pass

******FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Tested by :

Approved by:

Reviewed by

Date

Aug 28, 2023



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Model list:

SJ-12IC-2811 5V/12V 0.3w/0.6w SJ-12IC-1903 5V/12V 0.3w/0.6w SJ-12IC-1908 12V 0.2w SJ-12IC-1908 12V 0.3w SJ-12IC-DMX512 5V/12V 0.3w/0.6w SJ-20IC 5V/12V 0.3w/0.6w SJ-15ISIC 5V 0.3w SJ-15ISIC 5V 0.3w SJ-17IIC 5V 0.3w SJ-18IBIC 5V/12V 0.3w/0.6w SJ-219IC 12V 0.72w SJ-301C 12V 0.72w SJ-301D 12V 0.72w SJ-301EC 12V 0.72w SJ-356IC 12V/24V 1.44w SJ-356IC 12V/24V 1.44w SJ-387/3812IC 12V/24V 1.44w SJ-3459IC 12V/24V 1.44w SJ-459IC 12V/24V 1.44w SJ-459IC 12V/24V 1.44w SJ-459IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w	Model	Input voltage	Input power
SJ-12IC-8208 12V 0.2w SJ-12IC-1908 12V 0.2w SJ-12IC-2801 5V 0.3w SJ-12IC-DMX512 5V/12V 0.3w/0.6w SJ-16ISIC 5V 0.3w SJ-15ISIC 5V 0.3w SJ-17IIC 5V 0.3w SJ-17IIC 5V 0.3w/0.6w SJ-18IBIC 5V/12V 0.3w/0.6w SJ-219IC 12V 0.72w SJ-30IC 12V 0.72w SJ-30D 12V 0.72w SJ-35HC 12V/24V 0.72w SJ-35HC 12V/24V 1.44w SJ-359IC 12V/24V 1.44w SJ-359IC 12V/24V 1.44w/2.88w SJ-36FIC 12V/24V 1.44w/2.88w SJ-45GIC 12V/24V 1.44w SJ-45GIC 12V/24V 2.16w/2.88w SJ-40GIC 24V 1.44w SJ-45GIC 12V/24V 2.16w/2.88w SJ-4512IC 24V 2.88w <t< td=""><td>SJ-12IC-2811</td><td>5V/12V</td><td>0.3w/0.6w</td></t<>	SJ-12IC-2811	5V/12V	0.3w/0.6w
SJ-12IC-1908 12V 0.2w SJ-12IC-2801 5V 0.3w SJ-12IC-DMX512 5V/12V 0.3w/0.6w SJ-20IC 5V/12V 0.3w/0.6w SJ-15ISIC 5V 0.3w SJ-10IC 5V 0.3w SJ-17IIC 5V 0.3w SJ-1818IC 5V/12V 0.3w/0.6w SJ-219IC 12V 0.72w SJ-30IC 12V 0.72w SJ-3D 12V 0.72w SJ-30FIC 12V/24V 0.72w SJ-35FIC 12V/24V 1.44w SJ-35FIC 12V/24V 1.44w SJ-35FIC 12V/24V 1.44w/2.88w SJ-35FIC 12V/24V 1.44w/2.88w SJ-45FIC 12V/24V 1.44w/2.88w SJ-45GIC 12V/24V 1.44w SJ-45GIC 12V/24V 2.16w/2.88w SJ-40FIC 12V/24V 2.16w/2.88w SJ-4512IC 24V 1.44w SJ-6018IC 24V 2.8w <td>SJ-12IC-1903</td> <td>5V/12V</td> <td>0.3w/0.6w</td>	SJ-12IC-1903	5V/12V	0.3w/0.6w
SJ-12IC-2801 5V 0.3w SJ-12IC-DMX512 5V/12V 0.3w/0.6w SJ-20IC 5V/12V 0.3w/0.6w SJ-15ISIC 5V 0.3w SJ-17IIC 5V 0.3w SJ-17IIC 5V 0.3w SJ-1818IC 5V/12V 0.3w/0.6w SJ-219IC 12V 0.72w SJ-30IC 12V 0.72w SJ-30D 12V 0.72w SJ-30T 12V 0.72w SJ-36IC 12V/24V 1.44w SJ-356IC 12V/24V 1.44w SJ-359IC 12V/24V 1.44w/2.88w SJ-359IC 12V/24V 1.44w/2.88w SJ-359IC 12V/24V 1.44w/2.88w SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-6018IC 24V 4.32w <	SJ-12IC-8208	12V	0.2w
SJ-12IC-DMX512 5V/12V 0.3w/0.6w SJ-20IC 5V/12V 0.3w/0.6w SJ-15ISIC 5V 0.3w SJ-10IC 5V 0.3w SJ-17IIC 5V 0.3w/0.6w SJ-18IBIC 5V/12V 0.3w/0.6w SJ-219IG 12V 0.72w SJ-30IC 12V 0.72w SJ-3D 12V 0.72w SJ-3015IC 12V 0.72w SJ-354IC 12V/24V 1.44w SJ-356IC 12V/24V 1.44w SJ-359IC 12V/24V 1.44w/2.88w SJ-387/3812IC 12V/24V 1.44w/2.88w SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-450IC 24V 1.44w SJ-459IC 12V/24V 1.44w SJ-459IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-450IC 24V 2.88w SJ-504IC 12V/24V 1.44w SJ-5012 <td>SJ-12IC-1908</td> <td>12V</td> <td>0.2w</td>	SJ-12IC-1908	12V	0.2w
SJ-20IC 5V/12V 0.3w/0.6w SJ-1515IC 5V 0.3w SJ-10IC 5V 0.3w SJ-171IC 5V 0.3w/0.6w SJ-1818IC 5V/12V 0.3w/0.6w SJ-219IC 12V 0.72w SJ-30IC 12V 0.72w SJ-3D 12V 0.72w SJ-35HC 12V/24V 1.44w SJ-35GIC 12V/24V 1.44w SJ-35GIC 12V/24V 1.44w/2.88w SJ-387/3812IC 12V/24V 1.44w/2.88w SJ-387/3812IC 12V/24V 1.44w/2.88w SJ-456IC 12V/24V 1.44w/2.88w SJ-459IC 12V/24V 2.16w/2.88w SJ-450IC 24V 1.44w SJ-450IC 24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-6018IC 24V 2.88w SJ-6016IC 24V 4.32w SJ-504C 12V/24V 1.44w SJ-506C 12V/24V 1.44w </td <td>SJ-12IC-2801</td> <td>5V</td> <td>0.3w</td>	SJ-12IC-2801	5V	0.3w
SJ-1515 C SV 0.3w SJ-10 C SV 0.3w SJ-17 C SV 0.3w SJ-1818 C SV/12V 0.3w/0.6w SJ-219 C 12V 0.72w SJ-30 C 12V 0.72w SJ-30 C 12V 0.72w SJ-30 C 12V 0.72w SJ-35 C 12V 0.72w SJ-354 C 12V/24V 1.44w SJ-356 C 12V/24V 1.44w SJ-359 C 12V/24V 1.44w SJ-359 C 12V/24V 1.44w SJ-359 C 12V/24V 1.44w SJ-359 C 12V/24V 1.44w SJ-466 C 12V/24V 1.44w SJ-459 C 12V/24V 2.16w/2.88w SJ-459 C 12V/24V 2.16w/2.88w SJ-406 C 24V 1.44w SJ-409 C 12V/24V 2.16w/2.88w SJ-4018 C 24V 1.44w SJ-6018 C 24V 2.88w SJ-6016 C 24V 4.32w SJ-504 C 12V/24V 1.44w SJ-507 24V 1.44w SJ-508 C 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045 C 24V 2.88w SJ-28045 C 24V 3.864w SJ-60 SV/12V 0.3w/0.6w SJ-C6 SV/12V 0.3w/0.6w SJ-S14 SV/12V 0.3w/0.6w SJ-S150 C 24V 4.32w SJ-S01C 24V 0.3w/0.6w SJ-S14 SV/12V 0.3w/0.6w SJ-S14 SV/12V 0.72w SJ-B0 C 24V 4.32w SJ-B0 C 24V 4.32w SJ-100 C 24	SJ-12IC-DMX512	5V/12V	0.3w/0.6w
SJ-101C SV 0.3w	SJ-20IC	5V/12V	0.3w/0.6w
SJ-171IC 5V 0.3w SJ-1818IC 5V/12V 0.3w/0.6w SJ-219IC 12V 0.72w SJ-30IC 12V 0.72w SJ-3D 12V 0.72w SJ-301SIC 12V 0.72w SJ-354IC 12V/24V 1.44w SJ-356IC 12V/24V 1.44w SJ-359IC 12V/24V 2.16w/2.88w SJ-387/3812IC 12V/24V 1.44w SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-6018IC 24V 2.88w SJ-6018IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w	SJ-1515IC	5V	0.3w
SJ-1818IC 5V/12V 0.3w/0.6w	SJ-10IC	5V	0.3w
SJ-219IC 12V 0.72w SJ-30IC 12V 0.72w SJ-3D 12V 0.72w SJ-3015IC 12V 0.72w SJ-354IC 12V/24V 1.44w SJ-356IC 12V/24V 1.44w SJ-359IC 12V/24V 2.16w/2.88w SJ-387/3812IC 12V/24V 1.44w SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-6018IC 24V 2.88w SJ-6018IC 24V 4.32w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V	SJ-171IC	5V	0.3w
SJ-30 C	SJ-1818IC	5V/12V	0.3w/0.6w
SJ-3D	SJ-219IC	12V	0.72w
SJ-3015IC 12V 0.72w SJ-354IC 12V/24V 1.44w SJ-356IC 12V/24V 1.44w SJ-359IC 12V/24V 2.16w/2.88w SJ-387/3812IC 12V/24V 1.44w/2.88w SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-409IC 12V/24V 2.88w SJ-6018IC 24V 4.32w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w	SJ-30IC	12V	0.72w
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SJ-356IC 12V/24V 1.44w SJ-359IC 12V/24V 2.16w/2.88w SJ-387/3812IC 12V/24V 1.44w/2.88w SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.88w SJ-6018IC 24V 2.88w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 2.88w SJ-28045IC 24V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w	SJ-3015IC	12V	0.72w
SJ-359IC 12V/24V 2.16w/2.88w SJ-387/3812IC 12V/24V 1.44w/2.88w SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-4512IC 24V 2.88w SJ-6018IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-640 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-354IC	12V/24V	1.44w
SJ-387/3812IC 12V/24V 1.44w/2.88w SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-4512IC 24V 2.88w SJ-6018IC 24V 4.32w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-356IC	12V/24V	1.44w
SJ-456IC 12V/24V 1.44w SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-4512IC 24V 2.88w SJ-6018IC 24V 4.32w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w	SJ-359IC	12V/24V	2.16w/2.88w
SJ-459IC 12V/24V 2.16w/2.88w SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-4512IC 24V 2.88w SJ-6018IC 24V 4.32w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-387/3812IC	12V/24V	1.44w/2.88w
SJ-406IC 24V 1.44w SJ-409IC 12V/24V 2.16w/2.88w SJ-4512IC 24V 2.88w SJ-6018IC 24V 4.32w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.72w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-456IC	12V/24V	1.44w
SJ-409IC 12V/24V 2.16w/2.88w SJ-4512IC 24V 2.88w SJ-6018IC 24V 4.32w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-459IC	12V/24V	2.16w/2.88w
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SJ-6018IC 24V 4.32w SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-409IC	12V/24V	2.16w/2.88w
SJ-6016IC 24V 4.32w SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-4512IC	24V	2.88w
SJ-504IC 12V/24V 1.44w SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-6018IC	24V	4.32w
SJ-506IC 12V/24V 1.44w SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-6016IC	24V	4.32w
SJ-507 24V 1.44w SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-504IC	12V/24V	1.44w
SJ-5012 24V 2.88w SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-506IC	12V/24V	1.44w
SJ-28045IC 24V 8.64w SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-507	24V	1.44w
SJ-G40 5V/12V 0.3w/0.6w SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-5012	24V	2.88w
SJ-C9 5V/12V 0.3w/0.6w SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-28045IC	24V	8.64w
SJ-C6 5V/12V 0.3w/0.6w SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-G40	5V/12V	0.3w/0.6w
SJ-S14 5V/12V 0.72w SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-C9	5V/12V	0.3w/0.6w
SJ-80IC 24V 4.32w SJ-100IC 24V 4.32w	SJ-C6	5V/12V	0.3w/0.6w
SJ-100IC 24V 4.32w	SJ-S14	5V/12V	0.72w
	SJ-80IC	24V	4.32w
SJ-120IC 24V 4.32w	SJ-100IC	24V	4.32w
	SJ-120IC	24V	4.32w



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SJ-E14-2835	DC24V/AC60V/AC110V/AC220V	2w
SJ-E14-3528	DC24V/AC60V/AC110V/AC220V	2w
SJ-AC45IC	AC24V	2.88w
SJ-AC6018IC	AC24V	4.32w
SJ-7515-2811	12V	0.72w
SJ-7515-1903	12V	0.72w
SJ-7515-2801	12V	0.72w
SJ-7515-DMX	12V	0.72w
SJ-3535-DMX	12V/24V	1.44w
SJ-3535-2801	12V	1.44w
SJ-7512	12V	0.72w

Remark:

All models have the same mechanical constructure, the model uses SJ-356IC (24V) isselected to perform the tests



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1.1 EU Directive 2011/65/EU (ROHS, Previously 2002/95/EC) - XRF

Method: With reference to IEC 62321-3-1:2013

Analysis was performed by X-ray Fluorescence Spectrometry (XRF)

No.	Specimen Description	Result(s)				
INO.		Br	Pb	Hg	Cd	Cr
1	silicon	BL	BL	BL	BL	BL
2	tin	BL	BL	BL	BL	BL
3	PCB	BL	BL	BL	BL	BL
4	White wire	BL	BL	BL	BL	BL
5	Green wire	BL	BL	BL	BL	BL
6	Black wires	BL	BL	BL	BL	BL
7	PPS	BL	BL	BL	BL	BL
8	Red wire	BL	BL	BL	BL	BL
9	Yellow wire	BL	BL	BL	BL	BL

Note:	(1)	Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for CrVI) and GC/MS (for PBBs/PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321: 2013.
	BL	= Below Limit by XRF analysis
	OL	= Over Limit by XRF analysis
	Х	= Inconclusive
	LOD	= Limit of Detection
	(2)	The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
	(3)	The maximum permissible limit is quoted from the EU Directive 2011/65/EU Annex II

Element	Unit	Polymer	Metal	Composite Material
Cd	mg/kg	BL ≤ (70-3σ) < X <	BL ≤ (70-3σ) < X <	LOD < X < (150+3σ) ≤ OL
Cu		(130+3σ) ≤ OL	(130+3σ) ≤ OL	LOD < X < (150+30) ≤ OE
Pb	ma/ka	BL ≤ (700-3σ) < X <	BL ≤ (700-3σ) < X <	BL ≤ (500-3σ) < X <
PU	mg/kg	(1300+3σ) ≤ OL	(1300+3σ) ≤ OL	(1500+3σ) ≤ OL
Ца	ma/ka	BL ≤ (700-3σ) < X <	BL ≤ (700-3σ) < X <	BL ≤ (500-3σ) < X <
Hg	mg/kg	(1300+3σ) ≤ OL	(1300+3σ) ≤ OL	(1500+3σ) ≤ OL
Br	mg/kg	BL ≤ (300-3σ) < X	-	BL ≤ (250-3σ) < X
Cr	mg/kg	BL ≤ (700-3σ) < X	BL ≤ (700-3σ) < X	BL ≤ (500-3σ) < X



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ROHS Restricted Substances	Maximum Concentration Value (by weight in homogenous materials)
Lead (Pb)	0.1%
Cadmium (Cd)	0.01%
Mercury (Hg)	0.1%
Hexavalent Chromium (Cr VI)	0.1%
Polybrominated biphenyls (PBBs)	0.1%
Polybrominated Diphenylethers (PBDEs)	0.1%
Diisobutyl phthalate (DIBP)	0.1%
Phthalic acid (DEHP)	0.1%
Dibutyl phthalate (DBP)	0.1%
Butyl benzyl phthalate (BBP)	0.1%



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1.2 EU Directive 2015/863 (RoHS, Previously 2002/95/EC) - Phthalates

Method: With reference to IEC 62321-6:2015

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

No	Specimen Description	Result(s)			
No.		DIBP	DEHP	DBP	BBP
1	silicon	ND	ND	ND	ND
2	tin	ND	ND	ND	ND
3	PCB	ND	ND	ND	ND
4	White wire	ND	ND	ND	ND
5	Green wire	ND	ND	ND	ND
6	Black wires	ND	ND	ND	ND
7	PPS	ND	ND	ND	ND
8	Red wire	ND	ND	ND	ND
9	Yellow wire	ND	ND	ND	ND
	MDL	0.005%	0.005%	0.005%	0.005%
Permissible Limit		0.1%	0.1%	0.1%	0.1%

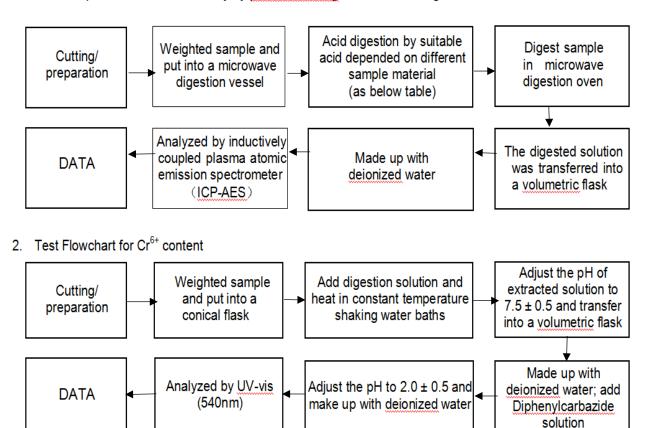
Note:	-	% = percentage by weight
	-	MDL = Method Detection Limit
	-	ND = Not Detected (lower than MDL)
	-	1% = 10000 mg/kg = 10000 ppm
	-	The maximum permissible limit is quoted from the EU Directive 2011/65/EU Annex II



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Test Flow chart

Test Flowchart for Cd / Pb /Hg content
 These samples were dissolved totally by pre-conditioning method according to below flow chart.





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3. Test Flowchart for PBBs & PBDEs content

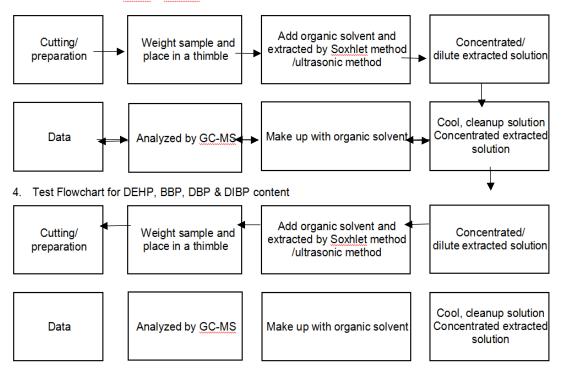


Table:

	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO₃/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI
Others	Any acid to total digestion



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PHOTO OF THE MAIN TEST SAMPLE

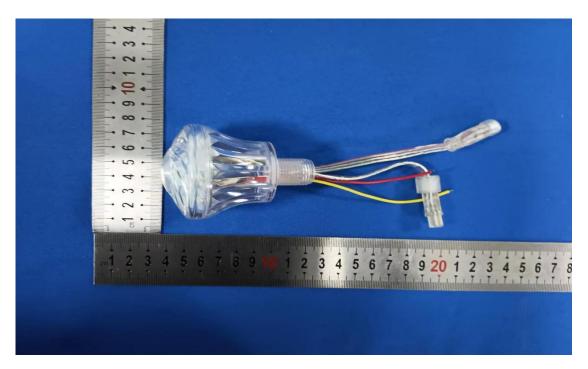


Fig. 1 - Front view

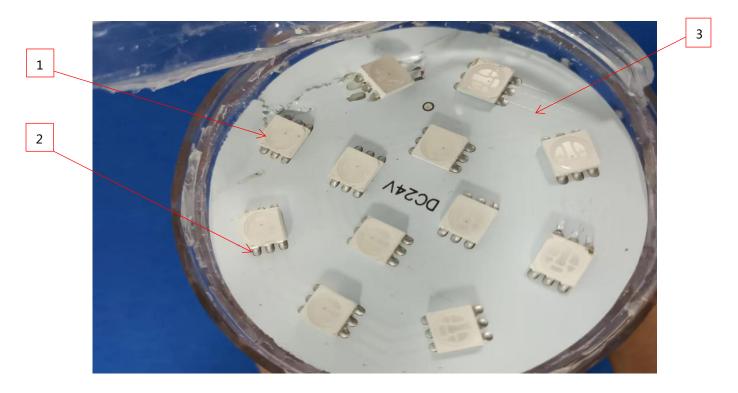


Fig. 2 - Rear view



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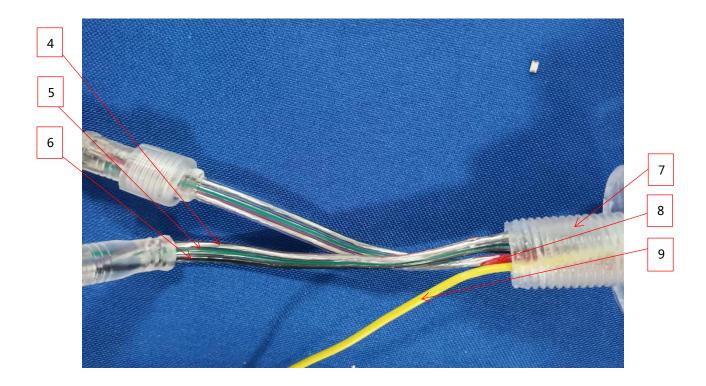


Fig. 3 - Front view

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