

Test Report

Report No. : TCT260112C003002

Date : Jan. 20, 2026

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Applicant: Shenzhen Shuguan Electronic Technology Co.,Ltd.
Address: Room 301, Building C, No. 11, Gelan Road, Dahe Community, Guanhu Street, Longhua District, Shenzhen City, Guangdong Province.

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: SGPD/PD/PDA/PDIC/PSD/DPD/QPD SERIES
Model No.: SGPD/PD/PDA/PDIC/PSD/DPD/QPD SERIES
Manufacturer: Shenzhen Shuguan Electronic Technology Co.,Ltd.
Address: Room 301, Building C, No. 11, Gelan Road, Dahe Community, Guanhu Street, Longhua District, Shenzhen City, Guangdong Province.
Sample Received Date: 2026.01.12
Testing Period: 2026.01.12—2026.01.20
Test Method: Please refer to the following page(s).
Test Result(s): Please refer to the following page(s).

Test Requested	Conclusion
As specified by client, Disassembly the sample and determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP), Benzylbutyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP) content of the parts in accordance with RoHS directive 2011/65/EU and the amendment directive (EU) 2015/863.	Pass

Checked by

Evan Fang

Evan Fang

Approved by

Ryan Zhang

Ryan Zhang
Technical Manager



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Test Result(s)

Part No.	Part Description	Test Item(s)	Result of EDXRF Screening test (1)	Result of Chemical Test (2) (mg/kg)	RoHS Conclusion
1	Purple electronic component	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass
2	Blue electronic component	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass
3	Black PCB	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	IN	N.D.	Pass
		PBDEs	IN	N.D.	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass

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Remark:**(1) EDXRF Screening test**

(a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).

(b) Use the IEC62321-3-1:2013 method to perform EDXRF scanning screening on the sample. If the EDXRF result exceeds the screening limit, it is recommended that the customer use a more accurate chemical test method to test the sample

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,

--- = Not Regulated, NA = Not Applicable.

(d) The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Chemical test

(a) 1mg/kg = 1ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.

(b) Chemical test limit and test method

The limit is quoted from RoHS directive 2011/65/EU and the amendment directive (EU) 2015/863.

Test Item(s)	Test Method	Test Instrument	MDL	Limit
Pb	IEC 62321-5:2013	ICP-OES	10 mg/kg	1000 mg/kg
Cd	IEC 62321-5:2013	ICP-OES	10 mg/kg	100 mg/kg
Hg	IEC 62321-4:2013+AMD1:2017	ICP-OES	10 mg/kg	1000 mg/kg
Cr(VI)	IEC 62321-7-1:2015	UV-Vis	0.10 $\mu\text{g}/\text{cm}^2$	-
	IEC 62321-7-2:2017	UV-Vis	10 mg/kg	1000 mg/kg
PBBs	IEC 62321-6:2015	GC-MS	Each 100 mg/kg	1000 mg/kg
PBDEs	IEC 62321-6:2015	GC-MS	Each 100 mg/kg	1000 mg/kg
DBP	IEC 62321-8:2017	GC-MS	100 mg/kg	1000 mg/kg

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BBP	IEC 62321-8:2017	GC-MS	100 mg/kg	1000 mg/kg
DEHP	IEC 62321-8:2017	GC-MS	100 mg/kg	1000 mg/kg
DIBP	IEC 62321-8:2017	GC-MS	100 mg/kg	1000 mg/kg

(c) According to IEC 62321-7-1:2015, For metal samples,

a. When the Cr (VI) concentration is $> 0.13 \mu\text{g}/\text{cm}^2$, the sample is positive for Cr(VI) and considered to contain Cr(VI).

b. When the Cr (VI) concentration is N.D. ($< 0.10 \mu\text{g}/\text{cm}^2$), the sample is negative for Cr(VI) and considered a non-Cr(VI) based coating.

c. When the Cr (VI) concentration is $\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$, the result is considered to be inconclusive - Unavoidable coating variations may influence the determination.

Because the storage condition and production date of the sample are not known, the test results of the sample of hexavalent chromium can only represent the state of hexavalent chromium in the samples tested.

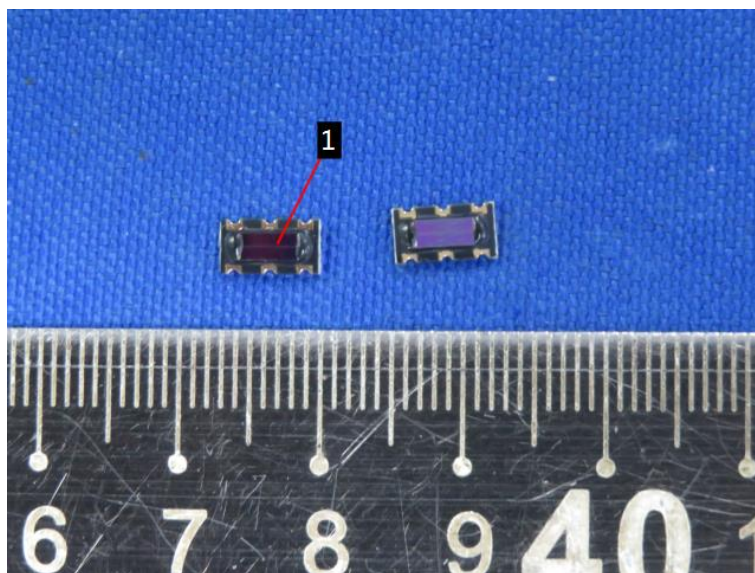
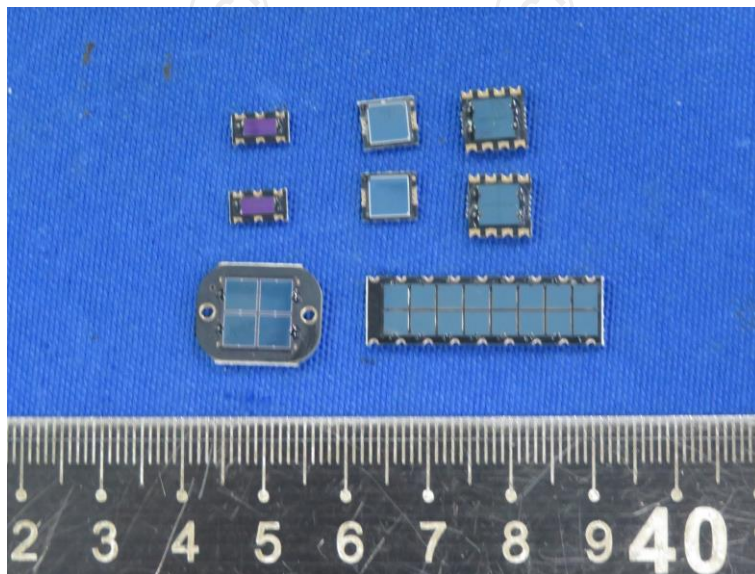
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Photo(s) of the sample(s)

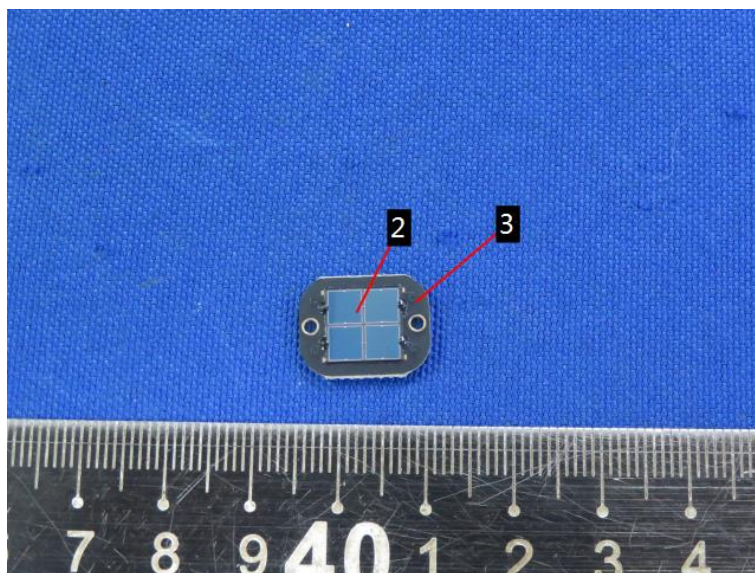


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***** End of Report *****

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