



# Test Report

Report No : BSTDG14080086RR-4 Date: Aug. 14, 2014

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**Applicant** : SHENZHEN SUOCAI ELECTRONIC TECHNOLOGY CO. LTD  
**Address** : Lianhua Industrial Park In Shenzhen New District Of Longhua Cityoffice Of  
The Longhua Hualian Community Long Yuan Da Dao Dun Bei Village 64 Floor

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

**Sample Name** : Fluorescent Marker Pen  
**Sample Model** : SC5015, SC5010, SC5030, SC5060, SC5080, SC5040A  
**Sample Received Date** : Aug. 11, 2014  
**Testing Period** : Aug. 11, 2014 To Aug. 14, 2014  
**Test Requested** : Selected test (s)in the selected parts as requested by client.  
**Test Method** : EN 71-1:2011+A3:2014, EN 71-2:2011+A1:2014, EN71-3-2013.  
**Test Result** : Please refer to next page(s).

Signed for and on behalf of



**Andy Zheng/ Technical Director**

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**Dongguan BST Testing Co., Ltd.**

A1201-1203 Xinsanqi Of Dongbao Road, Dongcheng District, Tel: 400-880-2056 E-mail: christina@bst-lab.com  
Dongguan, Guangdong, China E-mail: christina@bst-lab.com Http://www.bst-lab.com Complaints hotline: 86-755-26747756



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## Test Result:

### 1. Mechanical and Physical Test

As per European standard on safety of toys EN 71-1:2011+A3:2014, Applicant's specified age group for testing: over 36 months.

Clause	Testing Items	Assessment
4*	General requirements	P
5*	Toys intended for children under 36 months	NA
6*	Packaging	p
7*	Warnings and instructions for use	P/#
Remark :	1. P=Pass, 2. NA= Not applicable	

Note:

\*= The following subclauses of clause 4 of the standard were applicable :

4.1 Materials – Cleanliness visual examination.

### 2. Flammability Test

As per European standard on safety of toys EN 71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended To be worn by a child in play	NA
4.4	Toys intend to be entered by a child	NA
4.5	Soft filler toys(animal and dolls etc.) With a piled or textile surface	NA
Remark :	1. P = Pass; 2. NA = Not applicable.	

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## 3. Migration Of Certain Elements

As per European standard on safety of toys EN71-3-2013.

### 3.1 Sample Description:

No.	Description	Name
1	Plastic	Black Plastic
2	Plastic	Orange Plastic
3	Plastic	Purple Plastic
4	Plastic	Pink Plastic
5	Plastic	Yellow Plastic
6	Plastic	Red Plastic
7	Plastic	Green Plastic
8	Plastic	Blue Plastic
9	Plastic	White Plastic
10	Ink	Orange Ink
11	Ink	Purple Ink
12	Ink	Pink Ink
13	Ink	Yellow Ink
14	Ink	Red Ink
15	Ink	Green Ink
16	Ink	Blue Ink
17	Ink	White Ink
18	Paper	Stickers

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## The Result(No.1):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.2):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.3):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.4):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.5):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.6):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.7):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.8):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.9):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.10):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.11):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.12):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.13):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.14):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.15):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.16):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.17):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

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## The Result(No.18):

Test Item(s)	Unit	Test Method	Result	MDL	Limit
Soluble Cadmium (Cd)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	75
Soluble Chromium (Cr)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Antimony (Sb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Selenium (Se)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	500
Soluble Barium (Ba)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	1000
Soluble Arsenic (As)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	2.5	25
Soluble Mercury (Hg)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	60
Soluble Lead (Pb)	ppm	EN71-3 (Clause 8.1 ),AAS	N.D.	5	90

- Note:
1. mg/kg= ppm
  2. N.D.= Not Detected(<MDL)
  3. MDL = Method Detection Limit

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## Sample Photo:



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

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**Dongguan BST Testing Co., Ltd.**

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