



## STC Test Report

Date : 2015-07-14  
No. : DC184562DM

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**Applicant(Code: DGB508)** : I.R.I.S.S.A. Image Recognition Integrated Systems  
Rue Du Bosquet 10, 1348 Louvain La Neuve, Belgium

**Description of Sample(s)** : Sample(s) received is/are stated to be:  
Digital highlighter .supporting BLE and USB  
Supplier: GLOBAL BRANDS MANUFACTURE LIMITED  
Buyer: IRISPen 7 Air  
Style No.: 2.0

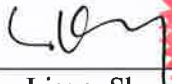
**Date Sample(s) Received** : 2015-07-03

**Date Tested** : 2015-07-03 to 2015-07-10

### Result Summary:

No.	Test Requested	Conclusion	Remark
1	Verification test - European Council Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2.0)	PASS	-

**Remark(s)** : This test report supersedes our previous test report DC184562DM issued on 2015-07-10 which is hereby deemed null and void.

  
Yan Liang, Sky  
Authorized Signatory  
Chemical, Food and Pharmaceutical Department  
For and on behalf of  
STC (Dongguan) Company Ltd.



STC (Dongguan) Company Limited



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### RESULT(S):

#### VERIFICATION TEST - EUROPEAN COUNCIL DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS2.0)

Method(s) Used: IEC 62321-3-1(2013)

-		Result					-
Parameter		Pb	Cd	Hg	Cr/ CrVI	Br/ PBDEs/ PBBs	-
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	Item / Component Description	-	-	-	-	-	Conclusion
1	Blue coating	BL	BL	BL	BL	BL	Pass
2	Green plastic	BL	BL	BL	BL	BL	Pass
3	Transparent plastic	BL	BL	BL	BL	BL	Pass
4	White plastic	BL	BL	BL	BL	BL	Pass
5	Transparent plastic	BL	BL	BL	BL	BL	Pass
6	Grey plastic with silvery metallic thread	BL	BL	BL	BL	BL	Pass
7	Black plastic	BL	BL	BL	BL	BL	Pass
8	Transparent plastic	BL	BL	BL	BL	ND <sup>#</sup>	Pass
9	Transparent plastic	BL	BL	BL	BL	BL	Pass
10	Black plastic	BL	BL	BL	BL	BL	Pass
11	Black body	BL	BL	BL	BL	ND <sup>#</sup>	Pass
12	White foam	BL	BL	BL	BL	BL	Pass
13	Yellow plastic	BL	BL	BL	BL	BL	Pass
14	White plastic	BL	BL	BL	BL	BL	Pass
15	Red plastic	BL	BL	BL	BL	BL	Pass
16	Black plastic	BL	BL	BL	BL	BL	Pass
17	Silvery metal	BL	BL	BL	BL	NA	Pass
18	Black body	BL	BL	BL	BL	BL	Pass
19	Black body	BL	BL	BL	BL	BL	Pass
20	Brown body	BL	BL	BL	BL	BL	Pass
21	Black body	BL	BL	BL	BL	BL	Pass
22	Black body	BL	BL	BL	BL	BL	Pass
23	Black body	BL	BL	BL	BL	BL	Pass
24	Green plastic	BL	BL	BL	BL	ND <sup>#</sup>	Pass
25	Black body	BL	BL	BL	BL	BL	Pass
26	Black body	BL	BL	BL	BL	BL	Pass
27	Light brown body	BL	BL	BL	BL	BL	Pass

STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China (Zip Code: 523770)  
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28	Brown body	BL	BL	BL	BL	BL	Pass
29	Grey body	BL	BL	BL	BL	BL	Pass
30	Yellow body	BL	BL	BL	BL	BL	Pass
31	Black body	BL	BL	BL	BL	ND <sup>#</sup>	Pass
32	Silvery body	9.3×10 <sup>4#</sup>	BL	BL	BL	BL	Exempt*
33	Black body	BL	BL	BL	BL	BL	Pass
34	Black body	BL	BL	BL	BL	BL	Pass
35	Black body	BL	BL	BL	BL	BL	Pass
36	Black plastic	BL	BL	BL	BL	BL	Pass
37	Silvery body	3.3×10 <sup>4#</sup>	BL	BL	BL	BL	Exempt*
38	Black body	BL	BL	BL	BL	BL	Pass
39	Yellow plastic	BL	BL	BL	BL	BL	Pass
40	Yellow body	BL	BL	BL	BL	BL	Pass
41	Black body	BL	BL	BL	BL	BL	Pass
42	Grey body	BL	BL	BL	BL	BL	Pass
43	Black/ silvery body	BL	BL	BL	BL	BL	Pass
44	Black body	BL	BL	BL	BL	BL	Pass
45	Black body	BL	BL	BL	BL	BL	Pass
46	White body	BL	BL	BL	BL	BL	Pass
47	Black body	BL	BL	BL	BL	BL	Pass
48	Black body	BL	BL	BL	BL	BL	Pass
49	Silvery metal	BL	BL	BL	BL	NA	Pass
50	Translucent plastic	BL	BL	BL	BL	BL	Pass
51	Black coating	BL	BL	BL	BL	BL	Pass
52	Green coating	BL	BL	BL	BL	BL	Pass
53	Silvery metal	BL	BL	BL	BL	NA	Pass
54	Silvery solder	BL	BL	BL	BL	NA	Pass
55	Silvery metal	BL	BL	BL	BL	NA	Pass
56	Black body	BL	BL	BL	BL	BL	Pass
57	Silvery metal solder	BL	BL	BL	BL	NA	Pass
58	Silvery metal	BL	BL	BL	BL	NA	Pass
59	Silvery metal solder	BL	BL	BL	BL	NA	Pass
60	White soft plastic	BL	BL	BL	BL	BL	Pass

Note :

- BL = Below limit
- OL = Over limit
- M = Marginal
- NR = Not requested
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- % = percent
- 10000 mg/kg = 1 %
- NA = Not applicable

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- ND = not detected
- Pb = Lead, Cd = Cadmium, Hg = Mercury, Cr = Chromium, Br = Bromine
- Detection Limit: See Appendix.

Remark(s):

- # denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- \*According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 29 is reiterated here "Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC.". Test Item(s) < 32 & 37 > was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- When the result(s) is (are) marginal, it is recommended to further perform related wet chemistry method for confirmation. See interpretation of result(s) in Appendix.
- Test item(s) is (are) indicated on the photograph(s) in Comment.

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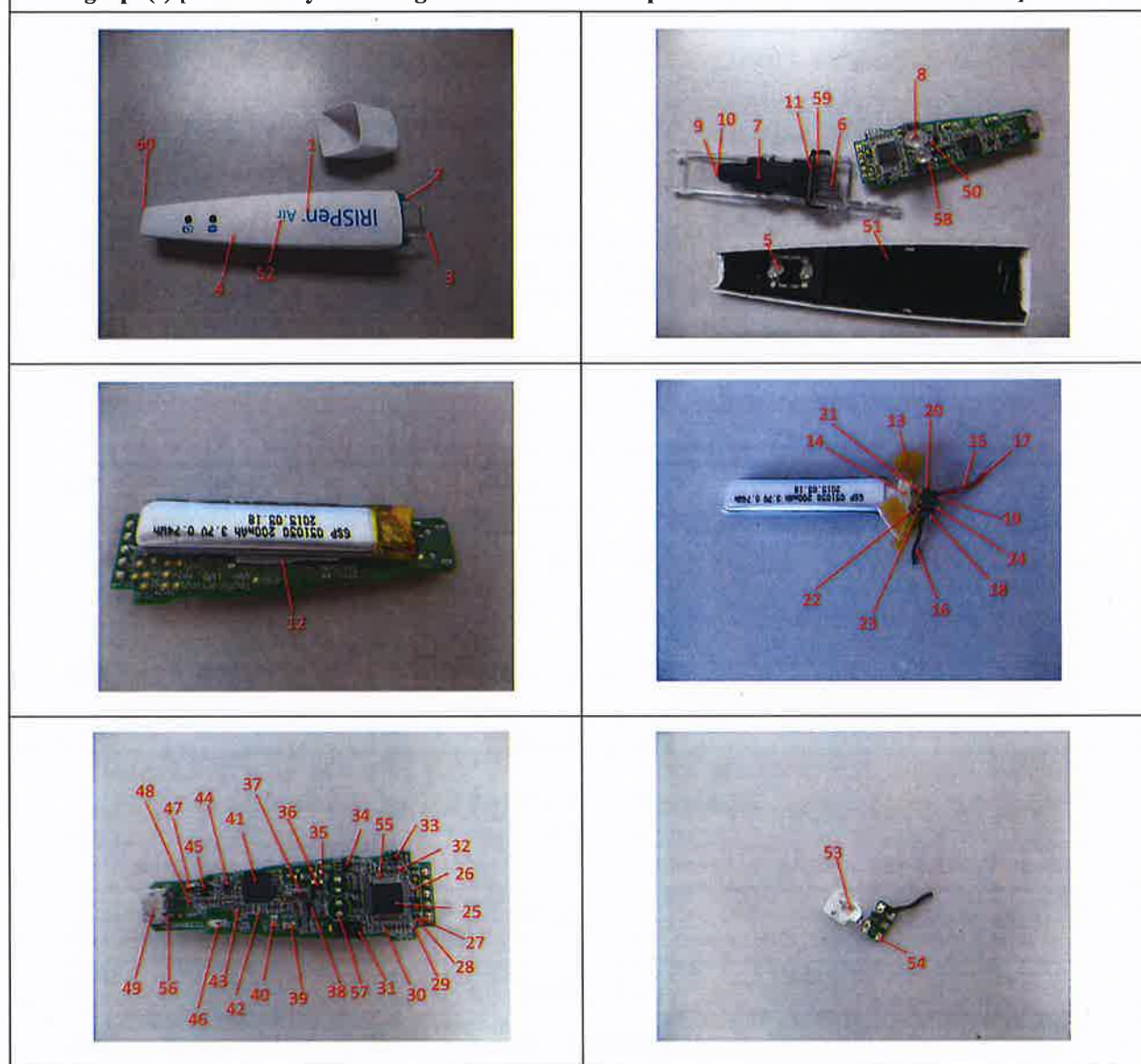


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### Photograph(s) [ Preliminary Screening Assessment for European Council Directive 2011/65/EU ] :



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### APPENDIX

List of Analytes, their Corresponding Detection Limit and Maximum Allowable Limit [ Preliminary Screening Assessment for European Council Directive 2011/65/EU ] :					
No.	Name of Analytes	Detection Limit (mg/kg)			Maximum Allowable Limit (mg/kg)
		Plastic	Metallic /glass/ ceramic	Others	
1	Lead (Pb)	100	200	200	1000
2	Cadmium (Cd)	50	50	50	100
3	Mercury (Hg)	100	200	200	1000
4	Chromium (Cr)	100	200	200	NA
5	Chromium VI (Cr VI)	NA	NA	NA	1000
6	Bromine (Br)	200	NA	200	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Sum 1000
NA = Not applicable					

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Interpretation of Result(s) [ Preliminary Screening Assessment for European Council Directive 2011/65/EU ] :			
Element	Non-metal	Metal	Composite material
Lead (Pb)	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL < X < (150 + 3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700 - 3\sigma) < X$	$BL \leq (700 - 3\sigma) < X$	$BL \leq (500 - 3\sigma) < X$
Bromine (Br)	$BL \leq (300 - 3\sigma) < X$	-	$BL \leq (250 - 3\sigma) < X$
X = Region considers as marginal result 3σ = Repeatability of XRF analyser at action level			

### PHOTO(S):



\*\*\*\*\* END OF TEST REPORT \*\*\*\*\*

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