XRF Screening and Chemical Confirmation Test Report Number: HKGC00000728 S3

Applicant: Kenxen Limited
26/F., Lever Tech Center,
69-71 King Yip Street, Kwun Tong,
Kowloon, Hong Kong.

Date: Jun 18, 2014

Attn: Lewis

This is to supersede Report No. HKGC00000728 S2 dated May 21, 2014

Sample Description:

Two (2) pieces of submitted samples said to be :

Item Name	:	**Handheld Scanner**
Model No.	:	**IRIScan Book 3**
Brand Name	:	IRIS
Manufacturer	:	Kenxen Limited
Buyer	:	IRIS SA

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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

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To be continued

For and on behalf of :
Intertek Testing Services HK Ltd.

Ken Chan
Senior Manager

Intertek Testing Services Hong Kong Ltd.
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
Tel: (852) 2173 8888 Fax: (852) 2786 1903 Website: www.intertek.com

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Conclusion:

Tested Samples	Standard	Result
Screening components of submitted samples /sets	Screening by XRF Spectroscopy and Chemical Confirmation Test for RoHS Directive (2011/65/EU)	Pass

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Remark :

Chemical confirmation tests were conducted to verify the inconclusive results, Cadmium (Cd), Chromium (VI) (Cr^{6+}), Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) content.

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Tests Conducted

1 Screening Test by XRF Spectroscopy

Determination of levels of regulated substances in electrotechnical products, elements of Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured by XRF Spectroscopy and chemical confirmation test for RoHS restricted substances.

(A) Results :

Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(1)	ND	ND	ND	ND	ND	--
(2)	ND	ND	ND	#	ND	Cr^{6+}: ND
(3)	ND	ND	ND	ND	ND	--
(4)	ND	ND	ND	ND	ND	--
(5)	ND	ND	ND	ND	ND	--
(6)	ND	ND	ND	ND	ND	--
(7)	ND	ND	ND	ND	ND	--
(8)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND
(9)	ND	ND	ND	ND	ND	--
(10)	ND	ND	ND	#	NA	Cr^{6+}: Negative (Spot test) Cr^{6+}: Negative (boiling water extraction)

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Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(11)	ND	#1	ND	ND	NA	--
(12)	ND	ND	ND	#	NA	Cr^{6+}: Negative (Spot test) Cr^{6+}: Negative (boiling water extraction)
(13)	ND	ND	ND	ND	NA	--
(14)	ND	ND	ND	ND	NA	--
(15)	ND	ND	ND	#	NA	Cr^{6+}: Negative (Spot test) Cr^{6+}: Negative (boiling water extraction)
(16)	ND	ND	ND	ND	ND	--
(17)	ND	ND	ND	ND	ND	--
(18)	ND	ND	ND	ND	ND	--
(19)	ND	ND	ND	ND	ND	--
(20)	ND	ND	ND	ND	ND	--

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Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(21)	ND	#1	ND	ND	NA	--
(22)	ND	ND	ND	ND	ND	--
(23)	ND	ND	ND	ND	NA	--
(24)	ND	ND	ND	#	NA	Cr^{6+}: Negative (Spot test) Cr^{6+}: Negative (boiling water extraction)
(25)	ND	ND	ND	ND	NA	--
(26)	ND	#2	ND	ND	ND	--
(27)	ND	ND	ND	ND	ND	--
(28)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND
(29)	ND	ND	ND	ND	ND	--
(30)	ND	ND	ND	ND	ND	--

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Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(31)	ND	ND	ND	ND	ND	--
(32)	ND	ND	ND	ND	NA	--
(33)	ND	ND	ND	ND	ND	--
(34)	ND	ND	ND	ND	ND	--
(35)	ND	ND	ND	ND	ND	--
(36)	ND	ND	ND	ND	ND	--
(37)	ND	ND	ND	ND	NA	--
(38)	ND	ND	ND	ND	ND	--
(39)	ND	ND	ND	ND	ND	--
(40)	ND	ND	ND	#	#	Cr^{6+}: ND PBBs: ND PBDEs: ND

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Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(41)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND
(42)	ND	ND	ND	ND	ND	--
(43)	ND	ND	ND	ND	ND	--
(44)	ND	ND	ND	ND	ND	--
(45)	ND	ND	ND	ND	NA	--
(46)	ND	ND	ND	ND	ND	--
(47)	ND	ND	ND	ND	ND	--
(48)	ND	ND	ND	ND	NA	--
(49)	ND	ND	ND	ND	NA	--
(50)	ND	ND	ND	ND	ND	--

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Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(51)	ND	ND	ND	ND	ND	--
(52)	ND	ND	ND	ND	NA	--
(53)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND
(54)	ND	ND	ND	ND	NA	--
(55)	ND	ND	ND	ND	ND	--
(56)	ND	ND	ND	ND	ND	--
(57)	ND	ND	ND	#	NA	Cr^{6+}: Negative (Spot test) Cr^{6+}: Negative (boiling water extraction)
(58)	ND	ND	ND	ND	ND	--
(59)	ND	ND	ND	ND	NA	--
(60)	ND	ND	ND	ND	ND	--

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Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(61)	#	#2	ND	ND	ND	Cd: ND
(62)	ND	ND	ND	ND	ND	--
(63)	ND	ND	ND	ND	ND	--
(64)	ND	ND	ND	ND	ND	--
(65)	ND	ND	ND	ND	ND	--
(66)	ND	ND	ND	ND	ND	--
(67)	ND	ND	ND	ND	NA	--
(68)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND
(69)	ND	ND	ND	ND	NA	--
(70)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND

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Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(71)	ND	ND	ND	ND	NA	--
(72)	ND	ND	ND	ND	ND	--
(73)	ND	ND	ND	ND	NA	--
(74)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND
(75)	ND	ND	ND	#	NA	Cr^{6+}: Negative (Spot test) Cr^{6+}: Negative (boiling water extraction)
(76)	ND	ND	ND	ND	ND	--
(77)	ND	ND	ND	ND	NA	--
(78)	ND	ND	ND	#	NA	Cr^{6+}: Negative (Spot test) Cr^{6+}: Negative (boiling water extraction)
(79)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND
(80)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND

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Tests Conducted

Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(81)	ND	ND	ND	ND	NA	--
(82)	ND	ND	ND	ND	ND	--
(83)	ND	ND	ND	ND	NA	--
(84)	ND	ND	ND	ND	ND	--
(85)	ND	ND	ND	ND	NA	--
(86)	ND	ND	ND	ND	ND	--
(87)	ND	ND	ND	ND	NA	--
(88)	ND	ND	ND	ND	ND	--
(89)	ND	ND	ND	ND	ND	--
(90)	ND	ND	ND	ND	NA	--

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Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(91)	ND	ND	ND	ND	ND	--
(92)	ND	ND	ND	ND	ND	--
(93)	ND	ND	ND	ND	#	PBBs: ND PBDEs: ND
(94)	ND	ND	ND	ND	ND	--
(95)	ND	ND	ND	ND	ND	--
(96)	ND	ND	ND	ND	ND	--
(97)	ND	ND	ND	ND	ND	--
(98)	ND	ND	ND	ND	ND	--
(99)	ND	ND	ND	ND	ND	--
(100)	ND	ND	ND	ND	ND	--
(101)	ND	ND	ND	ND	ND	--
(102)	ND	ND	ND	ND	ND	--

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Tests Conducted

Remark :
ND = Not Detected
NA = Not Applicable
ppm = part per million = mg/kg
# = Inconclusive

Positive = A positive test result indicated the presence of Cr(VI) at the time of testing, equal to or greater than threshold of 1 mg/kg for spot test procedure or 0.02 mg/kg for boiling-water-extraction procedure with a sample surface area of 50cm^2 used. However, it shall not be interpreted as the Cr(VI) concentration in the coating layer of the sample and should not be used as a method detection limit for this qualitative test.

Negative = A negative test result indicated above positive observation was not found at the time of testing. When the spot-test showed a negative result, the boiling-water-extraction procedure shall be used to verify the result.

#1 = As claimed by the declaration submitted by the client, the Lead content of the component is coming from copper alloy only. According to EU RoHS Directive, Lead as an alloying element in copper alloy can be containing up to 4% (40,000 ppm) Lead by weight.

#2 = As claimed by the declaration submitted by the client, the Lead content of the component is coming from the constituent of ceramic part of the electronic component only. According to EU RoHS Directive, Lead in electronic ceramic parts of this component can be exempted.

List of Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in chemical confirmation test:

PBBs	PBDEs
Monobromobiphenyl (monoBB)	Monobromodiphenyl ether (MonoDBE)
Dibromobiphenyl (DiBB)	Dibromodiphenyl ether (DiDBE)
Tribromobiphenyl (TriBB)	Tribromodiphenyl ether (TriDBE)
Tetrabromobiphenyl (TetraBB)	Tetrabromodiphenyl ether (TetraDBE)
Pentabromobiphenyl (PentaBB)	Pentabromodiphenyl ether (PentaDBE)
Hexabromobiphenyl (HexaBB)	Hexabromodiphenyl ether (HexaDBE)
Heptabromobiphenyl (HeptaBB)	Heptabromodiphenyl ether (HeptaDBE)
Octabromobiphenyl (OctaBB)	Octabromodiphenyl ether (OctaDBE)
Nonabromobiphenyl (NonaBB)	Nonabromodiphenyl ether (NonaDBE)
Decabromobiphenyl (DecaBB)	Decabromodiphenyl ether (DecaDBE)

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Tests Conducted

(B) XRF screening limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	P ⩽70 < X < 130 ⩽ F	P ⩽ 70 < X < 130 ⩽ F	P ⩽ 70 < X < 150 ⩽ F
Pb	P ⩽ 700 < X < 1300⩽ F	P ⩽ 700 < X < 1300 ⩽ F	P ⩽ 500< X < 1500 ⩽ F
Hg	P ⩽ 700< X < 1300 ⩽ F	P ⩽ 700 < X < 1300 ⩽ F	P ⩽ 500 < X < 1500 ⩽ F
Cr	P ⩽ 700< X	P ⩽ 700 < X	P ⩽ 500 < X
Br	P ⩽ 300< X	Not applicable	P ⩽ 250 < X

P = Pass
X = Inconclusive result
F = Fail
mg/kg = milligram per kilogram = ppm

(C) Estimated detection limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not Applicable	200

Disclaimers:

This XRF screening report is for reference purposes only. The applicant shall make Its/His/Her own judgement as to whether the information provided in this XRF screening report is sufficient for Its/His/Her purposes.

The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. Plastic, Rubber, Metal, Glass, Ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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Tests Conducted

(D) Chemical confirmation test Methods

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd) Content	With reference to IEC 62321 edition 1.0 : 2008, by acid digestion and determined by ICP-OES	10 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Non-Metal)	With reference to IEC 62321 edition 1.0 : 2008, by alkaline digestion and determined by UV-VIS spectrophotometer	1 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Metal)	With reference to IEC 62321 edition 1.0 : 2008, by spot test.	Positive/ Negative (Threshold of 1 mg/kg)
Chromium (VI) (Cr^{6+}) Content (For Metal)	With reference to IEC 62321 edition 1.0 : 2008, by boiling water extraction and determined by UV-VIS spectrophotometer	Positive/ Negative (Threshold of 0.02mg/kg with 50cm^2)
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321 edition 1.0 : 2008, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	20 mg/kg

(E) RoHS requirements

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr^{6+})	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from Annex II of 2011/65/EU.

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Tests Conducted

Screened components:

(1) White plastic with black coating (case)
(2) Grey plastic with silver color plating (button)
(3) White plastic with coatings (green, white) (button)
(4) Transparent plastic with coatings (screen)
(5) Transparent double side adhesive tape (of screen)
(6) White plastic (button)
(7) Black plastic with silver color glitter (case)
(8) Black plastic with adhesive tape (pad)
(9) Black plastic (rolling pad)
(10) Silver color metal (axle of roller)
(11) Dull black metal (roller)
(12) Black plated metal (screw)
(13) Silver color metal (battery spring)
(14) Solder (on contact plate)
(15) Silver color metal (screw)
(16) Black foam (cushion)
(17) Transparent glass (scanner)
(18) Transparent plastic adhesive tape
(19) Black plastic (gear holder)
(20) Black plastic (gear)
(21) Gold color metal (axle of gear)
(22) Black plastic (ring)
(23) Ivory paper label
(24) Silver color metal (PCB holder)
(25) Copper color metal (coil tape)
(26) Black fabric board (PCB of scanner)
(27) Black glue
(28) Black plastic (scanner holder)
(29) White plastic (scanner)
(30) Transparent plastic with white coating (scanner)
(31) Green fibre board (PCB)
(32) Solder (on PCB)
(33) White body with silver color metal (LED)
(34) Black plastic adhesive tape (on PCB)
(35) White plastic with black printing (label on PCB)
(36) Black plastic (connector)
(37) Silver color metal (terminal of connector)
(38) Black body with silver color metal (SMD diode)
(39) Brown body with silver color metal (SMD capacitor)
(40) White body with black printing with silver color metal (SMD resistor)
(41) White plastic with silver color metal (flexible cable)
(42) Transparent blue plastic (flexible cable)
(43) Black plastic (wire insulator)
(44) Red plastic (wire insulator)
(45) Silver color metal (wire)
(46) Black plastic (flexible cable connector)
(47) Beige color plastic (flexible cable connector)
(48) Silver color metal (flexible cable connector holder)
(49) Silver color metal (terminal of flexible cable connector)
(50) White paper label with printings (on IC)

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Tests Conducted

(Cont'd)

(51) Black body (IC - U12)
(52) Silver color metal (lead of IC - U12)
(53) Black body (IC - U7)
(54) Silver color metal (lead of IC - U7)
(55) Light brown body with silver color metal (SMD capacitor)
(56) White body with silver color metal (SMD capacitor)
(57) Silver color metal (card reader case)
(58) Black plastic (card reader)
(59) Silver color / copper color metal (terminal of card reader)
(60) Black body with silver color metal (SMD IC - U4)
(61) Transparent body with silver color metal (SMD diode)
(62) Dark grey body (inductor - 4R7)
(63) Yellow body with silver color metal (SMD capacitor)
(64) Dark grey body (SMD inductor - L10)
(65) Dark grey body with silver color metal (SMD inductor - L11)
(66) Transparent yellow plastic (on USB slot)
(67) Silver color metal (USB slot case)
(68) Black plastic (USB slot)
(69) Silver color metal (terminal of USB slot)
(70) Black body (sensor)
(71) Silver color metal (lead of black sensor)
(72) Transparent body (sensor)
(73) Silver color metal (lead of transparent sensor)
(74) White plastic (button of tactile switch - SW3)
(75) Silver color metal (frame of tactile switch - SW3)
(76) Black plastic (base of tactile switch - SW3)
(77) Silver color metal (lead of tactile switch - SW3)
(78) Silver color metal (frame of tactile switch - SW2)
(79) Transparent yellow plastic tape (of tactile switch - SW2)
(80) Black plastic (base of tactile switch - SW2)
(81) Silver color metal (lead of tactile switch - SW2)
(82) Black body (IC - U9)
(83) Silver color metal (lead of IC - U9)
(84) Black body (IC - U30)
(85) Silver color metal (lead of IC - U30)
(86) Black body (large IC)
(87) Silver color metal (lead of large IC)
(88) Yellow glue
(89) Silver color body (oscillator)
(90) Silver color metal (lead of oscillator)
(91) Transparent yellow plastic with copper color metal (connector)
(92) White body (SMD LED)
(93) White plastic (LCD case)
(94) Transparent blue plastic (on base of LCD case)
(95) White plastic with black printing (base of LCD case)
(96) White / black adhesive tape (on filter of LCD)
(97) Translucent plastic (filter of LCD)
(98) Transparent plastic (LCD holder)
(99) Black glue (on top of LCD)
(100) Transparent glass with chip (top of LCD)

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Tests Conducted

(Cont'd)

(101) Transparent black plastic (receiver of LCD)
(102) Transparent black glass (LCD)

Date sample received: Feb 24, 2014 & Apr 07, 2014
Testing period: Feb 24, 2014 to Mar 07, 2014 & Apr 07, 2014 to Apr 14, 2014

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End of report

Intertek Testing Services Hong Kong Ltd.
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British Standards Institute
Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

To:	Kenxen Limited	Ref:	CJ-2014-0024
Attention:	Lewis	Date:	Jun 18, 2014

Re : Report Revision Notification

Intertek Testing Services Report Number HKGC00000728 S2 Dated May 21, 2014.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGC00000728 S3.

Thank you for your attention.

For and on behalf of :
Intertek Testing Services HK Ltd.

Ken Chan
Senior Manager