

Verification Report

No. HKGEC1400043001

Date: 10 Jun 2014

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SUNON INTERNATIONAL GROUP LIMITED
UNIT 2305, 23/F, LAWS COMMERCIAL PLAZA
788 CHEUNG SHA WAN ROAD
KOWLOON HONG KONG

Sample Name : WATCH MOVEMENT
SGS Job No. : 2497529 - HK
Colour : GREY & BLACK
Item No Given by Client : PE28, SL25, SL28, PE25, PE26, PE27, PE46
Buyer : WORLDWIDE
Manufacturer : WUHAN SUNON ELECTRONIC CO., LTD.
Country of Origin : CHINA
Country of Destination : WORLDWIDE
Date of Sample Received : 13 Jan 2014
2nd Submission : 04 Mar 2014
3rd Submission : 11 Apr 2014
Verification Period : 13 Jan 2014 - 10 Jun 2014
Verification Requested : Selected test(s) as requested by client.
Verification Method :
1. Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant
2. Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC62321-3-1: 2013 Procedures for the Determination of Levels of Six Regulated Substances in Electrotechnical Products
(1) Screening by XRF Spectroscopy
(2) Wet Chemical Test Method:
a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
c. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
d. With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.
e. With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.
Verification Result : Please refer to next page(s).
Verification Conclusion : Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU recasting 2002/95/EC

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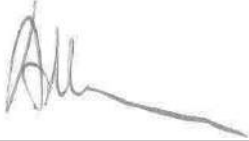
Date: 10 Jun 2014

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Note :

The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of
SGS Hong Kong Limited.



Lam Ka Yung, Allen
Chemist

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
1	Metal Plate – Silvery Metal		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	13 Jan 2014
2	Gear (Day Label) – White Plastic w/ Black Coating		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	13 Jan 2014
3	Crown Pin – Silvery Metal ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL BL --- ---	2228 --- --- --- --- ---	Comply Comply Comply Comply --- ---	13 Jan 2014
4	Crown – White Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	13 Jan 2014

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
5	Watch Movement Case – Grey Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
6	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
7	Magnet – Black Magnet w/ Pink Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
8	Gear – Pale Yellow Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
9	Gear – Pink Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	13 Jan 2014
10	Gear Axle – Silvery Metal ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL IN --- ---	1381 --- --- Negative --- ---	Comply Comply Comply Comply --- ---	13 Jan 2014
11	Gear Axle – Golden Metal w/ Silvery Plating ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL BL --- ---	16207 --- --- --- --- ---	Comply Comply Comply Comply --- ---	13 Jan 2014
12	Gear – Black Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	13 Jan 2014

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
13	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
14	Gear Cover – Transparent Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
15	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
16	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
17	Metal Plate – Coppery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
18	Metal Plate – Golden Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
19	Coil Holder – Silvery Metal w/ Yellow Coating		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
20	Coil – Coppery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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21	Oscillator – Silvery Metal w/ Chips		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
22	Epoxy – Black Epoxy w/ Chips		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
23	PCB w/ Solder – Glass Fiber w/ Green and Black Coating w/ Golden Metal w/ Silvery Metal §		Pb	OL	13819	See Remark	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
24	PCB Holder – Golden Metal ▲		Pb	OL	20946	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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25	PCB Contact Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
26	Watch Movement Case – Grey Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
27	Metal Plate – Coppery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
28	Crown Pin – Silvery Metal ▲		Pb	OL	2123	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	OL	ND	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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29	Crown Knob – White Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
30	Magnet – Black Magnet w/ White Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
31	Gear – White Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
32	Gear Axle – Golden Metal w/ Silvery Plating ▲		Pb	OL	23991	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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33	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
34	Watch Movement Case – Black Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
35	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
36	Magnet – Black Magnet w/ White Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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37	Gear – White Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
38	Gear – Grey Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
39	Gear – Blue Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
40	Gear – Pale Yellow Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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41	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
42	Gear Axle – Silvery Metal		Pb	OL	533	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
43	Gear Axle – Golden Metal w/ Silvery Plating ▲		Pb	IN	1508	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
44	Gear Cover – Transparent Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
45	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
46	Metal Plate – Coppery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
47	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
48	Coil Holder – Silvery Metal w/ Yellow Coating		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
49	Coil – Coppery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
50	Epoxy – Black Epoxy w/ Chips		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
51	Oscillator – Silvery Metal w/ Chips		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
52	PCB w/ Solder – Glass Fiber w/ Black Coating w/ Golden Metal w/ Silvery Metal §		Pb	OL	40380	See Remark	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
53	PCB Holder – Golden Metal ▲		Pb	OL	13183	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
54	PCB Contact Plate – Silvery Metal		Pb	OL	280	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
55	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
56	Watch Movement Case – Black Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
57	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
58	Magnet – Black Magnet w/ White Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
59	Gear – White Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
60	Gear – Dull Green Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
61	Gear Axle – Silvery Metal ▲		Pb	OL	2317	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
62	Gear Axle – Golden Metal w/ Silvery Plating ▲		Pb	OL	24924	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
63	Metal Plate – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
64	Watch Movement Case – Black Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
65	Watch Movement Case – Grey Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
66	Gear – White Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
67	Watch Movement Case – Grey Plastic		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
68	Label – White Plastic w/ Black and Red Coating		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
69	Metal Plate – Coppery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
70	Ring – Silvery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
71	Metal Plate – Coppery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
72	Metal Plate – Coppery Metal		Pb	BL	---	Comply	13 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
73	PCB w/ Solder – Glass Fiber w/ Green and Black Coating w/ Golden Metal w/ Silvery Metal §		Pb	---	42691	See Remark	13 Jan 2014 04 Mar 2014
			Cd	---	ND	Comply	
			Hg	---	ND	Comply	
			Cr(VI)	---	ND	Comply	
			PBBs	---	ND	Comply	
			PBDEs	---	ND	Comply	
74	PCB w/ Solder – Glass Fiber w/ Black Coating w/ Golden Metal w/ Silvery Metal §		Pb	---	21524	See Remark	13 Jan 2014 04 Mar 2014
			Cd	---	ND	Comply	
			Hg	---	ND	Comply	
			Cr(VI)	---	ND	Comply	
			PBBs	---	ND	Comply	
			PBDEs	---	ND	Comply	
75	PCB – Glass Fiber w/ Green and Black Coating w/ Golden Metal §		Pb	---	ND	Comply	13 Jan 2014 11 Apr 2014
			Cd	---	ND	Comply	
			Hg	---	ND	Comply	
			Cr(VI)	---	ND	Comply	
			PBBs	---	ND	Comply	
			PBDEs	---	ND	Comply	
76	Solder – Silvery Metal §		Pb	---	76	Comply	13 Jan 2014 11 Apr 2014
			Cd	---	ND	Comply	
			Hg	---	ND	Comply	
			Cr(VI)	---	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Remark :

(1) (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 Cr⁶⁺.

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321(unit: mg/kg)

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

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not Regulated.

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

(2) (a) mg/kg = ppm = 0.0001%, ND = Not Detected (<MDL), --- = Not Conducted, - = Without Bom.

(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr⁶⁺ for polymer & composite sample is 2 mg/kg.

* Due to the few amount of sample, MDL of Cr⁶⁺ in Polymer and Composite Materials is 10 mg/kg.

(c) According to IEC 62321, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.
Negative = Absence of Cr⁶⁺ coating, Positive = Presence of Cr⁶⁺ coating.

(d) ▲ As declared by the client, the materials fall into exemption items according to RoHS Directive 2011/65/EU recasting 2002/95/EC

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Exemption item ▲		Exemption material
3	Crown Pin – Silvery Metal	Steel Alloy
10	Gear Axle – Silvery Metal	Steel Alloy
11	Gear Axle – Golden Metal w/ Silvery Plating	Copper Alloy
24	PCB Holder – Golden Metal	Copper Alloy
28	Crown Pin – Silvery Metal	Steel Alloy
32	Gear Axle – Golden Metal w/ Silvery Plating	Copper Alloy
43	Gear Axle – Silvery Metal	Steel Alloy
53	PCB Holder – Golden Metal	Copper Alloy
61	Gear Axle – Silvery Metal	Steel Alloy
62	Gear Axle – Golden Metal w/ Silvery Plating	Copper Alloy

- (3) As declared by the client, the replaced item(s) was/were replaced by the new submitted item(s) which is summarized in below table.

Replaced item §		New item §	
23	PCB w/ Solder – Glass Fiber w/ Green and Black Coating w/ Golden Metal w/ Silvery Metal	73	PCB w/ Solder – Glass Fiber w/ Green and Black Coating w/ Golden Metal w/ Silvery Metal
52	PCB w/ Solder – Glass Fiber w/ Black Coating w/ Golden Metal w/ Silvery Metal	74	PCB w/ Solder – Glass Fiber w/ Black Coating w/ Golden Metal w/ Silvery Metal
73	PCB w/ Solder – Glass Fiber w/ Green and Black Coating w/ Golden Metal w/ Silvery Metal	75	PCB – Glass Fiber w/ Green and Black Coating w/ Golden Metal
74	PCB w/ Solder – Glass Fiber w/ Black Coating w/ Golden Metal w/ Silvery Metal	76	Solder – Silvery Metal

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According to the declaration from client, the source of Lead in “Crown Pin” of Item 3, “Gear Axle” of Item 10, “Gear Axle” of Item 11, “PCB Holder” of Item 24, “Crown Pin” of Item 28, “Gear Axle” of Item 32, “Gear Axle” of Item 43, “PCB Holder” of Item 53, “Gear Axle” of Item 61 and “Gear Axle” of Item 62 could be from the copper alloy/steel alloy base, while Lead as an alloying element in copper alloy/steel alloy containing up to 4%/0.35% Lead by weight is exempted by RoHS regulatory (Directive 2011/65/EU recasting 2002/95/EC).

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Sample photo:



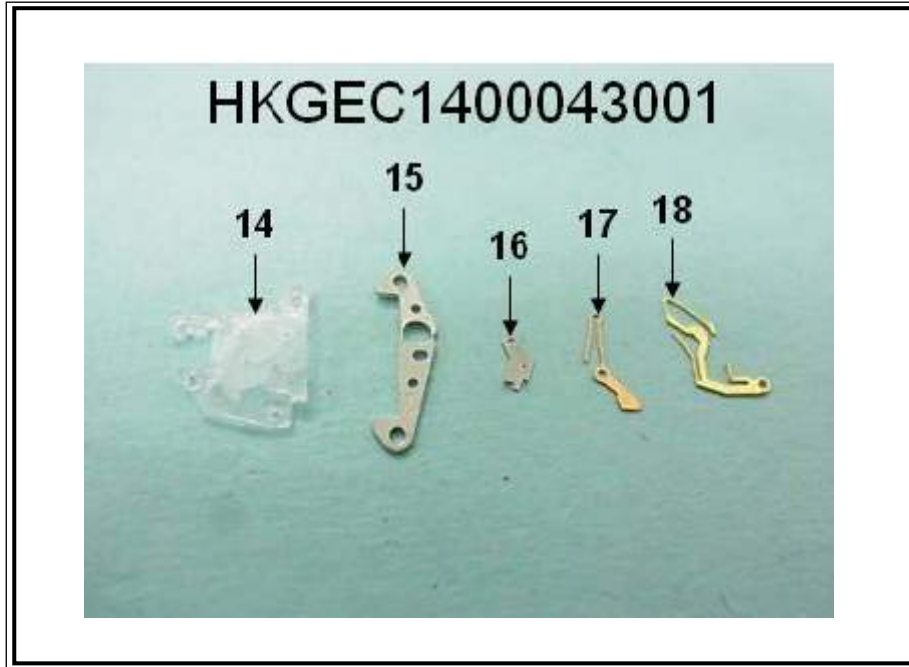
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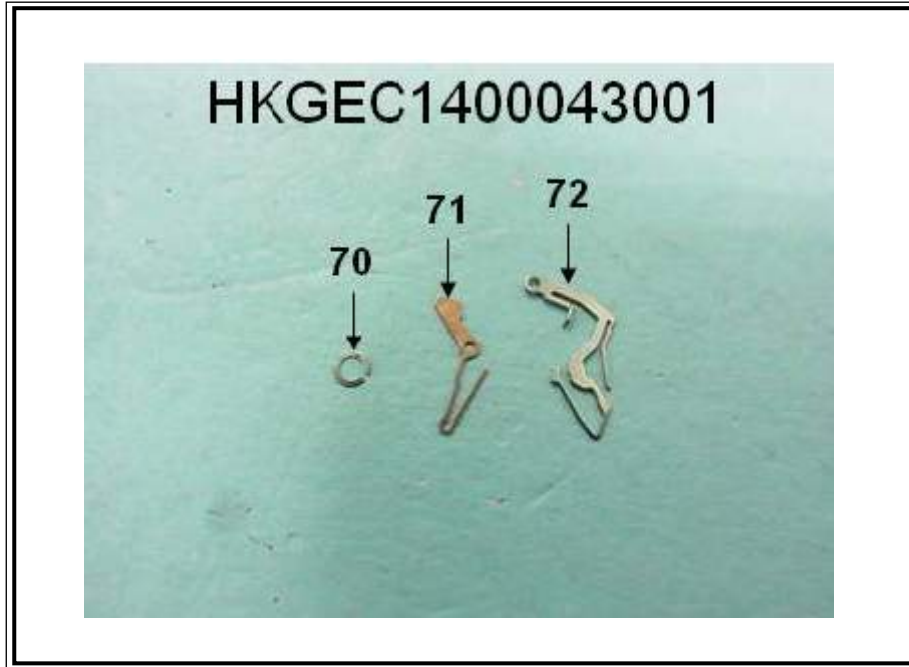
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