



NO.: A001R140709014001

Date: Jul 15, 2014

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Applicant: SISO A/S

Address: Mileparken 11, DK-2740 Skovlunde (Copenhagen), Denmark

Report on the submitted sample said to be:

Sample name: Wireless Charger

Brand: SISO

Model: WT1, WT* ("*" can be number 0~9. It represents different appearance)

Item/Lot No.: /

Material: /

Buyer: /

Supplier: /

Manufacturer: SISO A/S

Sample received date: Jul 09, 2014

Testing period: From Jul 09, 2014 to Jul 15, 2014

Testing Method:

(1) <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

(2) Chemical test:

Test Item	Pretreatment Method	Measuring Instrument	MDL
Lead (Pb)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr ⁶⁺)	IEC 62321:2008 Ed 1.0 Annex C	UV-VIS	2 mg/kg
Hexavalent Chromium (Cr ⁶⁺)	IEC 62321:2008 Ed 1.0 Annex B	UV-VIS	1
Polybrominated Biphenyls (PBBs) / Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed 1.0 Annex A	GC-MS	5 mg/kg

Conclusion:

<u>Tested samples</u> Screening components of submitted samples <u>Standard</u> Screening by XRF spectroscopy and chemical confirmation test for RoHS directive (2011/65/EU) Conclusion PASS

******FOR FURTHER DETAILS, PLACE ROLER TO THE FOLLOWING PAGE(S)******

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Tested by:

Li Xian Yong, Leif **Project Leader**

Reviewed by: Luo Jun, Rosary

Approved by:

Liu Lin Wen, Lewis Technical Supervisor

ond

SHENZHEN AOV TESTING TECHNOLOGY CO., LTD

Vice Technical Supervisor

1F East,2-6F, Block 5, Yuantou Lane, Tanglang, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China Tel: +86-755-8600 8000 Fax: +86-755-8600 8282 Http://www.aovt.com Postcode: 518055 (Attention is drawn to the terms and conditions printed overleaf)







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Test Flow (Chemical Test):

1. To Determine Lead, Cadmium Content(for Polymer, Electronics):



2. To Determine Lead, Cadmium Content (for Metals):



3.To Determine Mercury Content:









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4. To Determine Hexavalent Chromium Content (for Polymer, Electronics):



5. To Determine Hexavalent Chromium Content (for Metals/boiling water extraction):



6. To Determine Polybrominated Biphenyls/Polybrominated Diphenyl Ethers Content:









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Test Results:

Part no.	Sample name	XRF results		Chemical confirmation result(mg/kg)	Photo
8. 8 8 B 4	Charles Contractions	Pb	BL	A set of the set of all all	
the stand and a stand	Salar Carro	Cd	BL		
1	Black plastic shell	Hg	BL	PBBS: N.D.	And
a star a star	681 13	Cr	BL	PBDES: N.D.	
Personal Contract		Br	(#2) Inconclusive		
or Port		Pb	BL	+ Participation and a state	
A Soft Part	15 5° 81 A	Cd	BL		
2	Screw	Hg	BL	Var Ver d er de de la	4
ele la construction de la construcción de la construcción de la construcción de la construcción de la construcc	Part and a start and	Cr	BL		
Selection of the		Br	N.A.		
2. 4 de 2 3	St. " Frank St. St. St.	Pb	BL	87 183 VA2	
a a second	State State State	Cd	BL		
3	Lamp pole	Hg	BL	[3] + V [2]	
500 - 20 S	and a start and the start and	Cr	BL	61 A ' []	
Carl Conta 10	19 19 19 19 19 19 19 19 19 19 19 19 19 1	Br	BL		
Ser Star Clark	5 5 5 5 5 5 A 4	Pb	BL		
OBT CONTRACTOR		Cd	BL		
4	Black sponge	Hg	BL		
Seale Carlo		Cr	BL		
and a start of	and a start of the st	Br	BL	المركز	
A. C. P. S.	and a start of the second	Pb	BL	Carter Contraction Contraction Contraction Contraction	
a the strength of the	DCD	Cd	BL		
5	FCB Soldering flux	Hg	BL		
18.8.54	Soldering hux	Cr	BL	T DDES. N.D.	
Contraction of the second	Charles and States	Br	(#2) Inconclusive	Part and a strate with a strate of the st	
	a far an	Pb	BL		
Charles Constant	من م	Cd	BL		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6	Substrate	Hg	BL	PBDEs: N.D.	
	Contraction and the second	Cr	BL	PBDES: N.D.	
	and a start and	Br	(#2) Inconclusive		
	and a start and a start at	Pb	BL		
	State and a state of the state	Cd	BL		
7	Copper foil	Hg	BL	and set as the set of set as a set of set as a set of set of a set of a set of set of a set o	N 24
A Cash Control	+ " + " (Call of a state	Cr	BL		
and a for the start	ON STREAM CONSTR	Br	BL		







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Part no.	Sample name	XRF results		Chemical confirmation	Photo	
10 - 6 - 6 - 6 15 - 6 - 6 - 6		Pb	BI			
	t se an air a the set of a set	Cd	BL	and a start of the		
8	Screw	На	BL	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ų,	
all all all all	V a Volta	Cr	BL			
54000	1.20 1.20	Br	N.A.			
- P.S. 407	61 13	Pb	(#1) Inconclusive	4 6 at at at at at at		
Car Partial	100	Cd	BL			
9	Chip resistor	Hq	BL	Pb: 451	4	
Color a P	1.1.1.1.1.1.1.	Cr	(#2) Inconclusive	Cr°⁺: N.D.		
C. F. Star	and the second second	Br	BL			
1. 8 S & S	a Martine and a second	Pb	BL	18 1 - T. R. E. S. S.		
S. S. A. S.	Cont Harris Martin Control	Cd	BL	87 [2] Vezzz		
10	Chip LED	Hg	BL	PBBs: N.D.		
9. 4° 8° 8°	Contraction and states and states	Cr	BL	PBDEs: N.D.		
500 00 00 00 00 00 00 00 00 00 00 00 00	all a start and a start and	Br	(#2) Inconclusive	1. 1 1 1 1 S.		
a standard	and all all all all all all all all	Pb	BL			
and a for the	11 USB head Metal head	Cd	BL			
11		Hg	BL		1	
an Constant		Cr	BL			
Cont Carlo		Br	N.A.			
1. 1. 1. 1.	Pb BL	a start and a start of the start of the				
A CONCEPTION	and a start and a second	Cd	BL			
12	Black inner plastic	Hg	BL		Ş.	
Contraction of the second	and Constructions and	Cr	BL			
8.8.8	and the Constant of the Constant	Br	BL			
S. S. S. S.	Checker Construction	Pb	BL	Contract and share a contract of a		
	a far an a an a	Cd	BL			
13	Contact pin	Hg	BL	and a fair and a strain	×	
e street state and a state	Contraction of the contraction o	Cr	BL	Contraction and a state of the second		
a Barreland	and the state of the second	Br	N.A.			
Car Partie	and the second	Pb	BL			
Stern Part	Carrier and a strategy and	Cd	BL			
14	Chip capacitor C8	Hg	BL	Sala San Sala Sala	<u></u>	
Safe Constant	Part and a construction of	Cr	BL			
	t " the all and a fait	Br	BL	1 1 5 5 5 5 5 5 5 6 5 5 5 5 5 5 5 5 5 5		



SHENZHEN AOV TESTING TECHNOLOGY CO., LTD 1F East,2-6F, Block 5, Yuantou Lane, Tanglang, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China Tel: +86-755-8600 8000 Fax: +86-755-8600 8282 Http://www.aovt.com Postcode: 518055 (Attention is drawn to the terms and conditions printed overleaf)





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Part no.	Sample name	XRF results		Chemical confirmation result(mg/kg)	Photo
F. F. S. S. S.	and an adding to the second	Pb	BL	and the second second second second	
1. 5 5 8 at	Ender and a start and a start and	Cd	BL		
15	Chip audion	Hg	BL		N
Charles Control	CA Ver	Cr	BL	PDDES. N.D.	
	6. 1 1.3	Br	(#2) Inconclusive	Stand and a stand and a stand a	
- Former	El Pa	Pb	BL	WE AND	
as Parts	100	Cd	BL		
16	Chip diode	Hg	BL		* y
and second to	1888 S.M.	Cr	BL	PBDES. N.D.	
and a start of the start	Production of a company	Br	(#2) Inconclusive		
AP STRUCK STR	a the for the for the for the form	Pb	BL	1. A. 1. A. C. S. S.	
C. C. C. C.	Con the strate of the sec	Cd	BL		
17	IC U13 Body	Hg	BL	1 2 3 7	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Care and the strategy of	Cr	BL		
500 5 C C C	and a start and the start of	Br	BL		
Carlona a	1. 10° 11° 11° 10° 10° 10° 10° 10° 10° 10°	Pb	BL		
St. Contractor	18 IC U13 Pin	Cd	BL		
18		Hg	BL		
ar Collard Co	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Cr	BL		
Seattle Carlos	Carlos Carlos and	Br	N.A.		
Charles of	Start and Call and	Pb	BL	A Salar Strand Strand Strand	
A. C. A. C. art		Cd	BL		
19	IC U4 Body	Hg	BL		
C.S. C.M.	and a start of the	Cr	BL		
18 8 3 4 M	a further Constraints and the second s	Br	BL		
C. S. S. S.	Charles and a start and a start	Pb	BL	Contraction and the second and the second	
	a start and a start	Cd BL			
20	20 IC U4 Pin Hg BL	BL	a a chair a tha an		
Part Contest of Contest	and the second and the second	Cr	BL		
a Particular	Br N.A.				
and Partie	Entrational and a state of the state	Pb	BL		
Ster Part	and a start and a start as	Cd	BL		
21	IC U12 Body	Hg	BL		a
and Charles	Particular and a start of the	Cr	BL		
Stat Stat	Br BL	BL	all a sector a sector a sector		







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Part no.	Sample name	XRF results		Chemical confirmation result(mg/kg)	Photo
F. F. S. S. S.	and the construction of the second	Pb	BL	and a start of the second start	
1. S. S. S. S.	Constant Constant Constant	Cd	BL		
22	IC U12 Pin	Hg	BL	and a start and a start and a start and a start	12
Charles and	and lease	Cr	BL		
-5° 00 65	6. 13	Br	N.A.	Stand Contraction and Contraction of	
a Fischer		Pb	BL	wind the structure of t	
1. 831		Cd	BL		
23	IC U3 Body	Hg	BL	Contraction and a second and a	
and protection	Contract State	Cr	BL		
and the second	Prove and a start of the start	Br	BL		
A Star Star	a Martiner in Contact	Pb	BL	1. A. A. A. S. S. S.	
Constant of the second	Cont. " survey of the second	Cd	BL		
24	IC U3 Pin	Hg	BL	1 2] 3 7	•
1 0 S.	Carlor a margaret	Cr	BL		
100 - Cost	and a start and a strategy	Br	N.A.	839 12 193	
and a start of the second	Sala Sala Sala Sala	Pb	BL	Cd: N.D.	-
and the states	25 Chip capacitor C4	Cd	(#1) Inconclusive		
25		Hg	BL		
		Cr	BL		
Sant Santo	and a start of the second start	Br	BL		
and a start of	Star Star - Cost all all	Pb	BL	and and the set of the set of the set	
A. C. A. C. D. C.		Cd	BL		
26	Chip capacitor	Hg	BL		
C.S. C.M.	and a star and a star and a star	Cr	BL		
18 8 8 4 M	a carrie Carrie Carriero	Br	BL	Seale with a straight and a straight and a straight a straight a straight a straight a straight a straight a st	
C. C. C. C.	Control Control - Section Control - Control	Pb	BL	Post and a start start and the start of the	
	a far far a star a far	Cd	BL		
27	Magnet	Hg	BL	a a a a a a a a a a a a a a a a a a a	•
a star strategy and the st	Contraction Contraction	Cr	BL		
a Posterior	Charles and the control	Br	BL		
COM PARTIN	Contraction of the second	Pb	BL		
ALCA PAT	Transport	Cd	BL		
28		Hg	BL		4
and Constant	aunesive tape	Cr	BL		
	Br	BL	1. 1. 1. 1. 1. 4 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		







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Part no.	Sample name	XRF results		Chemical confirmation result(mg/kg)	Photo
F. A. S. MA	and the second strategies	Pb	BL	and the second and the second second	
8. 8° 8° 8° 8°	Charles and the second	Cd	BL	a car a fair a car a fair a	
29	Wire jacket	Hg	BL	a a a a a a a a a a a a	
The art of the second	CA Ve	Cr	BL	and the second and the second and the second se	
**************************************	6 4 1.3	Br	BL	and a start a start at a	
- Former	SI PA	Pb	BL	والموالي المراجع والموالي والمراجع المراجع المحالي المحالي المحالي المحالي المحالي المحالي المحالي المحالي المح	
an Pirch	101	Cd	BL	a set all de la set an all al	
30	Wire core	Hg	BL		
and a start	Second Stat	Cr	BL		
and the second	Part and a start	Br	N.A.		
AP BERGESS	a martinet and a second	Pb	BL		art
C. C. C. C.	Cot . " a Collar Collar	Cd	BL		
31	Soldering tin	Hg	BL		
1. 0. 0	Carlot a Marthal	Cr	BL		
500 5 - 00 V	and a start and a start and	Br N.A.	159 12 195		
Carlon and	C. C. S. S. S. S. S.	Pb	BL	202 J. A. 10 /	
32 1	a search and an th	Cd	BL	Clusive	
	Metal button	Hg	BL		
and constants	1 4 4 4 6 6 1 8 5 4 1 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	Cr	(#2) Inconclusive		
Sever Control	Contraction of the start of	Br	N.A.		

Remark:

-Specimens, which requested to determine Cadmium, Lead Content by chemical test, have been dissolved completely.

- mg/kg = ppm
- N.D.=not detected(<MDL)
- MDL=Method Detection Limit
- N.A.= Not Applicable
- BL= BELOW LIMIT
- **Boiling water extraction:

Negative=Absence of Cr⁶⁺;

Positive=Presence of Cr^{6+} ; the detected concentration in boiling water extraction solution is equal or greater than 0.02mg/kg with 50cm² sample surface area.

- Storage conditions and production date of the tested sample are unavailable and thus results of Cr⁶⁺ represent status of the sample at the time of testing.
- -"Homogeneous material" means one material of uniform composition throughout or a material, consisting of a combination of materials, that cannot be disjointed or separated into different materials by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes.







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- (#1) = The screening result was found in the region of inconclusive (See Table B) and further chemical tests were suggested.
- (#2) = Cr or Br were detected above the screening Limit (see table B) and further chemical tests were suggested.

(B) XRF Screening Limit in mg/kg for regulated elements in various matrices.

Element	Polymer materials	Metallic materials	Composite materials
Cd	BL ≤ (70 -3σ)< X < (130+3σ)≤ OL	BL ≤ (70 -3σ) < X < (70 +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
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X
Br	BL ≤ (300-3σ)< X	Not Applicable	BL ≤ (250 -3σ)< X

Remark:

-A "BELOW LIMIT" (BL) or "OVER LIMIT" (OL) determination will be set at 30 % (50 % for composite materials) less than or greater than the limit, respectively. The margins of safety have been agreed upon based on the experience of many experts and practitioners in the industry. Further explanation for this approach to estimating uncertainty.

-The symbol "X" marks the region, where further investigation is necessary.

-LOD means Limit of Detection.

-The term "σ" expresses the repeatability of the analyzer at the action level.

(C) RoHS Requirement

Restricted substances	Limits
Lead (Pb)	0.1% (1000 ppm)
Cadmium (Cd)	0.01% (100 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Hexavalent Chromium (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 2011/65/EU.

Remark:

-Chemical confirmation tests were conducted to verify the inconclusive results, Hexavalent Chromium (Cr⁶⁺), Polybrominated biphenyls(PBBs) and Polybrominated diphenyl ethers(PBDEs) content.

-As requested by the applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU, other components were not screened included in this report.







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Disclaimers:

This XRF Screening Report is for reference purposes only. The applicant shall make its/his/her own judgment 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.

- Photo is included.



Wireless Charger

End of Report

