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Applicant:	ChangWang Technology inc
Contact information:	guang dong sheng dong wan shi tang sha zhen qing hu tou ren min lu 37hao zhi yi

**MINIPC Microcomputer MINIPC** 

#### The following sample(s) was (were) submitted and identified by client as:

2

Sample Name Model No. Series Model

UONE

Trade mark Manufacturer Address

Received Date Testing Period Test Request Test Result(s) : MINIPC-M1

MINIPC,ROUTE,M1,NAS,MINIPC-P1,MINIPC-P2,MINIPC-P3,MINIPC-P4, MINIPC-P5,MINIPC-P6,MINIPC-P7,MINIPC-P8,MINIPC-P9

: GAMTEE

: ChangWang Technology inc

: guang dong sheng dong wan shi tang sha zhen qing hu tou ren min lu 37hao zhi yi

- Nov. 24, 2023
- : From Nov. 24, 2023 to Nov. 30, 2023
- : Please refer to next page(s).
- : Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by

Max Wu

Checked by

Approved by

Hed

Hedy Xu

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Thea Ye

深圳市宇冠检测有限公司 Shen Zhen UONE Test Co., LTD. 深圳光明新区观光路3009号招商[ Hotline:400-774-3358 Web:www.uonetest.com 光明科技园B4栋4B单元 Unit 41 Tel:+86-755-23695858 Web:www.uonecn.com Fax:+86-755-23699878 E-mail:service@uonetest.com

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Summary of Test Results (Tested parts are required partially by client):	50 50
TEST REQUEST	CONCLUSION
<ul> <li>RoHS Directive 2011/65/EU and its subsequent amendments Directive (EU) 2015/863</li> <li>To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),</li> <li>(1) Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs) content by screening test and chemical test</li> </ul>	PASS
(2) To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test	PASS

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Material No.	Description (Location)	Photo(s) of tested materials
on jon	Silvery metal with black coating(shell)	
2	Silvery metal(screw)	
3	Light blue silicone	3
4	Coppery metal(plate)	
5	Silvery metal with black coating(screw)	Canadian
6	Silvery metal(nut)	OLI MOL LON LON LON
SONE JONE	Silvery metal with black coating	
8	Black plastic	8 9 10
9	White adhesive plastic with black printing(label)	
10 50	Silvery metal with black coating(plate)	
11	Silvery metal with black-white coating	
12	Black plastic	

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Material No.	Description (Location)	Photo(s) of tested materials
the ste		13 14
13	Silvery metal with black coating(screw)	9
4. 4.		
101 101	1, ""OI, ""OI, ""OI, ""OI, ""OI, ""OI,	5 🔺 🔌
14	Silvery metal(screw)	
Mr. Mr		
15	Silvery metal(solder)	
16	Black PCB	
17 5	Black body(triode)	
18	Brown body(capacitor)	
19	Gray body(resistor)	
20	Black body(IC)	
21	Black body(IC)	
22	Black body(resistor)	0. 70. 70. 70.
23	Silvery body(crystal)	23 24 25 26 27 28
24	Black body(IC)	
25	Black body(IC)	
26	Black body(IC)	
27	White plastic	
28	Black-white body(EC)	
29	Silvery metal(shell)	29 30 31 32 33 34 35
30	Black plastic	
31	Black plastic	
32	Black PCB	
33	Black plastic(shell)	
34	Silvery metal(shell)	
35	White adhesive plastic with black printing(label)	

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Test Result(s):

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(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)

Test Method: IEC62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6: 2015, IEC 62321-7-1:2015, IEC 62321-7-2: 2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

, ON	EDXRF Result <sup>(1)</sup>				1012	Chemical Result <sup>(2)</sup>		On other
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark <sup>(3)</sup>	Conclusion
1	BL	BL	BL	BL	NA	ONE - ONE	OHE OHE	PASS
2	BL	BL	BL	BL	NA	0 00	2. 2.	PASS
3	BL	BL	BL	BL	BL	14 - 14	11 - 11	PASS
4	BL	BL	BL	BL	NA	2020.	20. 20.	PASS
5	BL	BL	BL	BL	NA	10 - 10	10 - 10	PASS
6	BL	BLS	BL	BL	NA	Jon Jon .	Por 201	PASS
7	BL	BL	BL	BL	NA	6 6	6 - 6	PASS
8	BL	BL	BL	BL	BL	,0 <sup>ML</sup> -,0 <sup>ML</sup>	ON TON	PASS
9	BL	BL	BL	BL	BL	0 0	<u> </u>	PASS
10	BL	BL	BL	BL	NA	Mr - Mr	Mr - Mr	PASS
11	BL	BL	BL	BL	NA	2 -22	2 2	PASS
12	BL	BL	BL	BL	BL	14 - 14	10 - 10	PASS
13	BL	BLS	BL	BL	NA	2020.	20. 20.	PASS
14	BL	BL	BL	BL	NA	se = se	4 4.	PASS
15	BLO	BL	BL	BL	NA	10h -10h .	04. 20m.	PASS
16	BL	BL	BL	BL	x	PBBs: N.D. PBDEs: N.D.	4 4.	PASS
17	BL	BL	BL	BL	BL	10Mm -10Mm	0m	PASS
18	BL	BL	BL	BL	BL			PASS
19	BL	BL	BL	BL	BL	ON - ONE	ONE ONE	PASS
20	BL	BL	BL	BL	BL	0 0	0. 0.	PASS
21	BL	BL	BL	BL	BL	Mr - Mr	alle - alle	PASS
22	BL	BL	BL	BL	BL	1010.	20. 20.	PASS

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5	EDXRF Result <sup>(1)</sup>				00	Chemical Result <sup>(2)</sup>		2 2
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark <sup>(3)</sup>	Conclusion
23	BL	BLS	BL	BL	BL	2020. 2	S. 20.	PASS
24	BL	BL	BL	BL	BL	4. 4.	4 4.	PASS
25	BLO	BL	BL	BL	BL	10m -10m 1	0 M. 20 M.	PASS
26	BL	BL	BL	BL	BL			PASS
27	BL	BL	BL	BL	BL	. M - M	Whit - OHE	PASS
28	BL	BL	BL	BL	BL	0.000	0	PASS
29	BL	BL	BL	BL	NA	all - all	the - the	PASS
30	BL	BL	BL	BL	BL	2020. 2	5. 70.	PASS
31	BL	BL	BL	BL	BL	Se - Se	& - &	PASS
32	BL	BLS	BL	BL	BL	101 -101 B	Dr. Por	PASS
33	BL	BL	BL	BL	BL		.6 = .6	PASS
34	BL	BL	BL	BL	NA	10 <sup>m</sup> - 10 <sup>m</sup>	OHN TOHN	PASS
35	BL	BL	BL	BL	BL		_	PASS

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#### Remark:

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- (1) ①Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).
  - 20L = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

③The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

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
	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(500-3σ)< X
Pb	OL S	St OL St St	<(1500+3σ)≤ OL
101 1	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(500-3σ)< X
N Hg	OL	OL	<(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X	NA	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

Units and limits in EU RoHS Directive 2011/65/EU:

Element	Pb O	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	🕙 100 🔍	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than MDL).

2 Unit and MDL	(Method detection li	limit) in wet chemical test.	5

Element	Pb 🚫	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	8	5	5

3 According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test.

(3) This column represents the exempted decoration of material or other related testing sample's information.

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#### (2) Phthalates (DBP, BBP, DEHP, DIBP) content

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Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

Substances	O DBP O	BBP	DEHP	DIBP	10 <sup>10</sup> 10 <sup>1</sup>
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	Conclusion
MDL (mg/kg)	20	20	20	20	20 20
Material No.	At At	Result (r	ng/kg)	All All	all all
3 30	N.D.	N.D.	N.D.	N.D.	PASS
8	N.D.	N.D.	N.D.	N.D.	PASS
Jon 9 Jon	N.D.	N.D.	N.D.	N.D.	PASS
12	N.D.	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	PASS
17	N.D.	N.D.	N.D.	N.D.	PASS
18	N.D.	N.D.	N.D.	N.D.	PASS
19	N.D.	N.D.	N.D.	N.D.	PASS
20	N.D.	N.D.	N.D.	N.D.	PASS
<u> </u>	N.D.	N.D.	N.D.	N.D.	PASS
22	N.D.	N.D.	N.D.	N.D.	PASS
23	N.D.	N.D.	N.D.	N.D.	PASS
24	N.D.	N.D.	N.D.	N.D.	PASS
25	N.D.	N.D.	N.D.	N.D.	PASS
26	N.D.	N.D.	N.D.	N.D.	PASS
27	N.D.	N.D.	N.D.	N.D.	PASS
28	N.D.	N.D.	N.D.	N.D.	PASS
30	N.D.	N.D.	N.D.	🔬 N.D. 🏑	PASS
31	N.D.	N.D.	N.D.	N.D.	PASS
32	N.D.	N.D.	N.D.	N.D.	PASS

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Query Password: QW2102 Page 9 of 13 Report No.: U18906231124613E Date: Nov. 30, 2023 DIBP Substances DBP BBP DEHP CAS No. 84-74-2 85-68-7 117-81-7 84-69-5 1000 Conclusion Limit (mg/kg) 1000 1000 1000 20 20 20 20 MDL (mg/kg) Material No. Result (mg/kg) 33 PASS N.D. N.D. N.D. N.D. 35 N.D. N.D. N.D. N.D. PASS

Note:

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- 1. mg/kg = milligram per kilogram (ppm).
- 2. MDL= method detection limit.
- 3. N.D.=not detected(less than MDL).

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Test Process Flow

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1. XRF scan

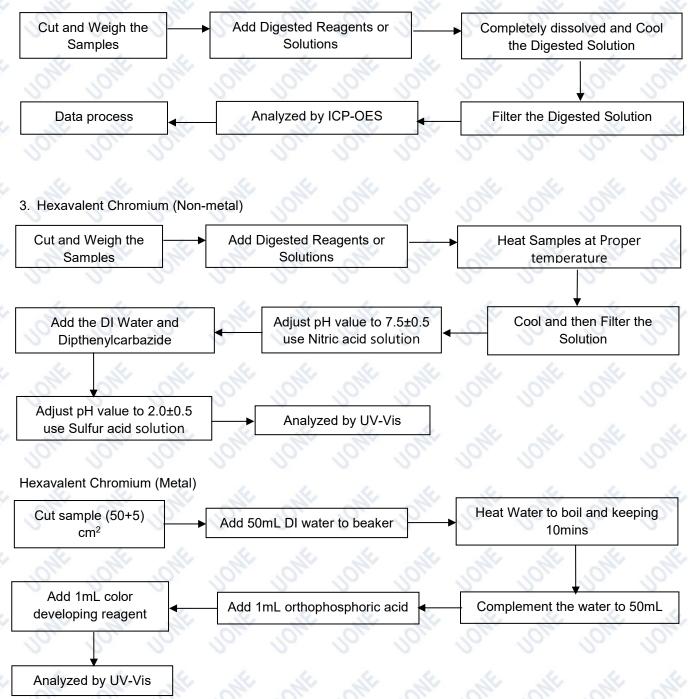
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2. Lead, Cadmium, Mercury

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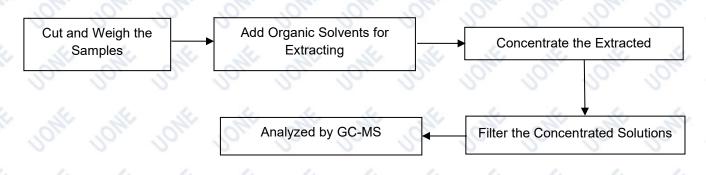
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4. PBBs & PBDEs, Phthalates

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Photo(s) of Sample:



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

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#### Statement

 The information listed on the first page of this test report, except the date of receipt, test date, test result and test conclusion, is provided by the client. The client shall be responsible for the representativeness of sample and authenticity of materials, for which UONE shall bear no responsibilities.

2. The test conclusion of this report are only applicable to the test samples submitted for inspection, and the samples submitted for inspection are only kept for 30 days, and the company does not bear other joint and several liabilities other than the test results.

3. The test report shall take effect only with the seal of the company, and this report shall not be deleted or modified.

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