



Applicant: SHENZHEN RICH CHINA POWER ELECTRONICS TECHNOLOGY CO.,LTD

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Town, BaoAn District, ShenZhen, China Post code:518105

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

Sample Name : Battery charger(max power:150W)

Model No. : F120-100-D F240-050-D

Series Model : FXXX-YYY-D (XXX is from 060 to 518, YYY is from 020 to 100,

Input: 100~240Vac 50~60Hz, Output: 6~58.8Vdc)

Received Date : Feb. 28, 2022

Testing Period : From Feb. 28, 2022 to Mar. 3, 2022

Test Request : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by

Checked by

Approved by

Lili Zeng

Lin Zhu

Levent Liang



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Summary of test results:	
TEST REQUEST	CONCLUSION
RoHS Directive 2011/65/EU and its subsequent amendments Directive	ctive (EU) 2015/863
To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexav. (1) Polybrominated Biphenyls (PBBs) and Polybrominated Diphercontent by screening test and chemical test	
(2) To determine Phthalates (DBP, BBP, DEHP, DIBP) content by	y chemical test PASS



Test Material List

Test Material List	0, 0, 0, 0, 0, 0	0, 0, 0, 0,
Material No.	Description (Location)	Photo(s) of tested materials
101 101	Black plastic (shell)) 16, 'Ola, 'Ola, 'Ola,
2	Silvery metal (cooling fin)	1 2 3 4 5 6
3	Yellow plastic (tape)	
4	Silvery metal (screw)	
5	Silvery metal (nut)	
6	Silvery metal (gasket)	AND RESIDENCE
7	Silvery metal (spring gasket)	
8	Black plastic shell (power socket,PCB)	21, 10, 10, 10, 10,
9	Silvery metal pin (power socket,PCB)	4. 4. 4. 4.
10	Black soft plastic sleeve (fuse,PCB)	THIS TOWN THOSE THE
11	Silvery body (fuse,PCB)	
12	Black body (capacitance,PCB)	ME ONE ONE ONE
13	Black body (BD,PCB)	100 100 110
14	Blue body (resistance,PCB)	the the the the
15	Yellow plastic tape (transformer,PCB)	8-9 10-11 12 13 14 15 ₇ 19 20 21 ₇ 23
16	Black magnet block (transformer,PCB)	
17	Black plastic bobbin (transformer,PCB)	
18	Coppery metal coil (transformer,PCB)	
19	Transparent soft plastic sleeve (transformer,PCB)	
20	Gray body (fuse,PCB)	24 25 26 27 31 32 33 34
21	Black soft plastic sleeve (inductance,PCB)	THE ONE ONE ONE
22	Black magnet pillar (inductance,PCB)	, 110 110 110
23	Coppery metal coil (inductance,PCB)	the the the the
24	Black body (THR,PCB)	D. 10, 10, 10,
25	Yellow body (capacitance,PCB)	4 4 4 4
26	Blue body (capacitance,PCB)	Na. 110 ps. 110 ps. 110 ps.
27	Black soft plastic sleeve (inductance,PCB)	2. 2. 2. 2.
177 178		W W W

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Material No.	Description (Location)	Photo(s) of tested materials
28	White plastic shell (inductance,PCB)	0.0404442424445402024
29	Black magnet ring (inductance,PCB)	8-9 10-11 12 13 14 15-19 20 21-
30	Coppery metal coil (inductance,PCB)	
31	Silvery metal pin (inductance,PCB)	
32	Black body (diode,PCB)	
33	Black body (diode,PCB)	24 25 26 27-31 32 33 34
34	Black body (audion,PCB)	24 23 20 21-31 32 33 34
35	Black body (audion,PCB)	24 25 27 20 20 40 44
36	Black body (resistance,PCB)	34 36 37 38 39 40 41
37	Black body (IC,PCB)	
38	Red body (glass diode,PCB)	
39	Brown body (capacitance,PCB)	415, 20, 711
40	Silvery solder (PCB)	
41	Green PCB	
42	White translucent body (LED)	42 43 44 45 46
43	White translucent dry glue (LED)	
44	Black soft plastic wire jacket (LED)	
45	White soft plastic wire jacket (LED)	
46	Red soft plastic wire jacket (LED)	
47	Silvery plastic with black printing (motor)	47 40 40 50 54 50 52 57
48	Black plastic frame (fan)	47 48 49 50-51 52 53-57
49	Black plastic fan blade (fan)	
50	Silvery metal ring (fan)	
51	Black magnet ring (fan)	
52	White plastic gasket (fan)	58 59 60 61 6
53	Silvery metal axle (fan)	30 33 60 61 6



Material No.	Description (Location)	Photo(s) of tested materials
54	Coppery metal tube (fan)	Sc 32 32 32
55	Silvery metal rotor slice (fan)	10, 10, 10, 10,
56	Black plastic bobbin (fan)	47 48 49 50-51 52 53-57
57	Coppery metal coil (fan)	
58	Green PCB (fan)	
59	Silvery solder (fan)	
60	Silvery metal wire (fan)	58 59 60 61 62
61	Black soft plastic wire jacket (fan)	THE WALL WALL WA
62	Red soft plastic wire jacket (fan)	10, 10, 10, 10,
63	Coppery metal wire (power line)	63 64 65 66 67
64	Red soft plastic wire jacket (power line)	
65	Black soft plastic wire jacket (power line)	
66	Black soft plastic SR (power line)	
67	Black soft plastic wire jacket (power line)	
68	Silvery metal (clamp)	68 69 70 71 72
69	Red soft plastic sleeve (clamp)	
70	Silvery metal spring (clamp)	
71	Silvery metal axle (clamp)	
72	Black soft plastic sleeve (clamp)	
73	Black soft plastic handle (power plug)	7,3 7,4 7,5 7,6 7,7 7,8 7,9 8,0 81 ₇ 83
74	Coppery metal sheet (power plug)	
75	Silvery metal pin (power plug)	
76	Black plastic pin holder (power plug)	
77	White body (fuse)	
78	Blue soft plastic wire jacket (power line)	

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Material No.	Description (Location)	Photo(s) of tested materials
79	Brown soft plastic wire jacket (power line)	73 74 75 76 77 78 79 80 81 ₇ 83
80	Black soft plastic wire jacket (power line)	
81	Black soft plastic handle (power plug)	
82	Black plastic pin holder (power plug)	
83	Coppery metal pin (power plug)	

Test Result(s):

(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.

1011	10,	EDX	RF Resu	ılt ⁽¹⁾		Chemical Result (2)	D (3)	1011 10H
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark ⁽³⁾	Conclusion
1	BL	BL	BL	BL	BL	WE - WE	WE -WE	PASS
2	BL	BL	BL	BL	NA	20 700 0	20 70	PASS
3	BL	BL	BL	BL	BL	WE - WE		PASS
4	BL	BL	BL	BL	NA	10, 70, 1	0. 70.	PASS
5	BL	BL	BL	BL	NA	& - &	do - do	PASS
6	BL	BL	BL	BL	NA	10p10p. 1	Op. 20p.	PASS
7	BL	BL	BL	BL	NA	/ /.	/ = /.	PASS
8	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	OHE TOHE	PASS
9	BL	BL	BL	BL	NA			PASS
10	BL	BL	BL	BL	BL	10HF -10HF	0HF -0HF	PASS
11	BL	BL	BL	BL	BL	0 0	2	PASS
12	BL	BL	BL	BL	BL	ME - ME	ME - ME	PASS
13	BL	BL	BL	BL	BL	10 -10 1	20 70	PASS

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No.	110	EDX	(RF Resu	ult ⁽¹⁾		Chemical Result (2)	D (3)	
NO.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark ⁽³⁾	Conclusion
14	BL	BLS	BL	BL	BL	10, -10, 13	0, 40,	PASS
15	BL	BL	BL	BL	BL	4 4.	& &.	PASS
16	BL	BL	BL	BL	BL	10Hr -10Hr 1	OH 10 19	PASS
17	BL	BL	BL	BL	BL			PASS
18	BL	BL	BL	BL	NA	OHE -OHE	OHE -OHE	PASS
19	BL	BL	BL	BL	BL	00. 0	0	PASS
20	BL	BL	BL	BL	BL	alle - alle	NE -NE	PASS
21	BL	BL	BL	BL	BL	10, 70, 1	20. 70.	PASS
22	BL	BL	BL	BL	BL	- A	& - &	PASS
23	BL	BL	BL	BL	NA	10, 10, 1	0, 90,	PASS
24	BL	BL	BL	BL	BL	4 - 4	4 - 6	PASS
25	BL	BL	BL	BL	BL	10HP -10HP	OHOH	PASS
26	BL	BL	BL	BL	BL			PASS
27	BL	BL	BL	BL	BL	CHE - CHE	WE -WE	PASS
28	BL	BL	BL	BL	BL	22 72 3	200	PASS
29	BL	BL	BL	BL	BL		<u> </u>	PASS
30	BL	BL	BL	BL	NA	10, 70, 1	0. 20.	PASS
31	BL	BL	BL	BL	NA	36 - 36	& - &	PASS
32	BL	BL	BL	BL	BL	10 -10 10	Op. 2012.	PASS
33	BL	BL	BL	BL	BL	/ /.	/. = /.	PASS
34	BL	BL	BL	BL	BL	10HF -10HF	0HP -10HP	PASS
35	BL	BL	BL	BL	BL	2 -2	2	PASS
36	BL	BL	BL	BL	BL	WE - WE	Mr - Mr	PASS
37	BL	BL	BL	BL	BL	12 72 3	10	PASS
38	BL	BL	BL	BL	BL	JE - JE	JE - JE	PASS
39	BL	BL	BL	BL	BL	10, -10, 1	0, 70,	PASS
40	BL	BL	BL	BL	NA	4 - 4	6 - 6	PASS



100	200	EDX	(RF Resu	ult ⁽¹⁾	120	Chemical Result (2)	(3)	10 110
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark ⁽³⁾	Conclusion
41	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	22 702	PASS
42	BL	BL	BL	BL	BL	<u> </u>	JE - JE	PASS
43	BL	BL	BL	BL	BL	10, -10, 1	21, 401,	PASS
44	BL	BL	BL	BL	BL		.cc.	PASS
45	BL	BL	BL	BL	BL	10HI -10HI 1	JAIL TOHI	PASS
46	BL	BL	BL	BL	BL			PASS
47	BL	BL	BL	BL	BL	OHE - OHE	MrOMF	PASS
48	BL	BL	BL	BL	Х	PBBs: N.D. PBDEs: N.D.	700	PASS
49	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	746 - 14C	PASS
50	BL	BL	BL	BL	NA	0 0	2	PASS
51	BL	BL	BL	BL	BL	ME - ME	ME - ME	PASS
52	BL	BL	BL	BL	BL	22 -22 2	20	PASS
53	BL	BL	BL	BL	NA	JE - JE	Je - Je	PASS
54	BL	BL	BL	BL	NA	10, -10, 1	21. 701	PASS
55	BL	BL	BL	BL	NA	∠. − ∠.	c.	PASS
56	BL	BL	BL	BL	BL	10/10/10/10/10/10	Olar 120 lar	PASS
57	BL	BL	BL	BL	NA			PASS
58	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	JHP TOHE	PASS
59	BL	BL	BL	BL	NA	3 , 3		PASS
60	BL	BL	BL	BL	NA	WF - WF	WE -OHE	PASS
61	BL	BL	BL	BL	BL	02 0	120	PASS
62	BL	BL	BL	BL	BL	all - all	Mr - Mr	PASS
63	BL	BL	BL	BL	NA	1010.	0. 70.	PASS
64	BL	BL	BL	BL	BL	de - de	de - de	PASS
65	BL	BL	BL	BL	BL	10 -10 18	012 TOL	PASS
66	BL	BL	BL	BL	BL			PASS



110	120	EDX	(RF Resu	ult ⁽¹⁾		Chemical Result (2)	(2)	200
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark ⁽³⁾	Conclusion
67	BL	BL	BL	BL	BL	10, 10, 1	20, 20,	PASS
68	BL	BL	BL	BL	NA	4. 4.	4 4.	PASS
69	BL	BL	BL	BL	BL	10 HI - 10 HI	Opp. 1-01/2	PASS
70	BL	BL	BL	BL	NA			PASS
71	BL	BL	BL	BL	NA	10 HF - 0 HF	ONE TONE	PASS
72	BL	BL	BL	BL	BL	0. 0. 0	2. 7.	PASS
73	BL	BL	BL	BL	BL	ME - ME	NE -NE	PASS
74	BL	BL	BL	BL	NA	10, 70, 1	20. 70.	PASS
75	OL	Х	BL	BL	NA	Pb: 24980 # Cd:32	Copper alloy	PASS
76	BL	BL	BL	BL	Х	PBBs: N.D. PBDEs: N.D.	7	PASS
77	BL	BL	BL	BL	BL	,0HF -0HF	0HE -0HE	PASS
78	BL	BL	BL	BL	BL	0. 0. 0	2	PASS
79	BL	BL	BL	BL	BL	ME - ME	NE - NE	PASS
80	BL	BL	BL	BL	BL	10, 70, 1	20. 70.	PASS
81	BL	BL	BL	BL	BL	&- &	£ -£	PASS
82	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	0, 70,	PASS
83	BL	BL	BL	BL	NA	34 - 34	4 - 4	PASS



Remark:

- (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).
 - ②OL = 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
DI .	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(500-3σ)< X
Pb	OL	& OL & &	<(1500+3σ)≤ OL
101	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(500-3σ)< X
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	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).

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

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

③According 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.

- 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.

 According to the declaration from the client, Lead in specimen(s) is exempted by RoHS Directive (2011/65 / EU) annex III and its amendment base on:
 - # Copper alloy containing up to 4 % lead by weight.

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

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

Substances CAS No. Limit (mg/kg) MDL (mg/kg)	DBP 84-74-2 1000 20	ВВР	DEHP	DIBP	Conclusion			
		85-68-7 1000 20	117-81-7 1000 20	84-69-5 1000 20				
						Material No.	110 HOLE	1012, 10L
						, 1	N.D.	N.D.
0 3 0 1	N.D.	N.D.	N.D.	N.D.	PASS			
8	N.D.	N.D.	N.D.	N.D.	PASS			
10	N.D.	N.D.	N.D.	N.D.	PASS			
11	N.D.	N.D.	N.D.	N.D.	PASS			
12	N.D.	N.D.	N.D.	N.D.	PASS			
13	N.D.	N.D.	N.D.	N.D.	PASS			
14	N.D.	N.D.	N.D.	N.D.	PASS			
15	N.D.	N.D.	N.D.	N.D.	PASS			
16	N.D.	N.D.	N.D.	N.D.	PASS			
ONE 17 ONE	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			
21	N.D.	N.D.	N.D.	N.D.	PASS			
22	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			
29	N.D.	N.D.	N.D.	N.D.	PASS			

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Substances	DBP	ВВР	DEHP	DIBP	20 20	
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	all a	
Limit (mg/kg)	1000	1000	1000	1000	Conclusion	
MDL (mg/kg)	20	20	20	20	4. 3	
Material No.	terial No. Result (mg/kg)					
32	N.D.	N.D.	N.D.	N.D.	PASS	
33	N.D.	N.D.	N.D.	N.D.	PASS	
34	N.D.	N.D.	N.D.	N.D.	PASS	
35	N.D.	N.D.	N.D.	N.D.	PASS	
36	N.D.	N.D.	N.D.	N.D.	PASS	
37	N.D.	N.D.	N.D.	N.D.	PASS	
38	N.D.	N.D.	N.D.	N.D.	PASS	
39	N.D.	N.D.	N.D.	N.D.	PASS	
41	N.D.	N.D.	N.D.	N.D.	PASS	
42	N.D.	N.D.	N.D.	N.D.	PASS	
43	N.D.	N.D.	N.D.	N.D.	PASS	
44	N.D.	N.D.	N.D.	N.D.	PASS	
45	N.D.	N.D.	N.D.	N.D.	PASS	
46	N.D.	N.D.	N.D.	N.D.	PASS	
47	N.D.	N.D.	N.D.	N.D.	PASS	
48	N.D.	N.D.	N.D.	N.D.	PASS	
49	N.D.	N.D.	N.D.	N.D.	PASS	
51	N.D.	N.D.	N.D.	N.D.	PASS	
52	N.D.	N.D.	N.D.	N.D.	PASS	
56	N.D.	N.D.	N.D.	N.D.	PASS	
58	N.D.	N.D.	N.D.	N.D.	PASS	
61	N.D.	N.D.	N.D.	N.D.	PASS	
62	N.D.	N.D.	N.D.	N.D.	PASS	
64	N.D.	N.D.	N.D.	N.D.	PASS	

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Substances CAS No. Limit (mg/kg) MDL (mg/kg)	DBP 84-74-2 1000 20	85-68-7 1000 20	DEHP	DIBP 84-69-5 1000 20	Conclusion			
			117-81-7 1000 20					
						Material No.	104, 104,	1011, 101
						65	N.D.	N.D.
66	N.D.	N.D.	N.D.	N.D.	PASS			
67	N.D.	N.D.	N.D.	N.D.	PASS			
69	N.D.	N.D.	N.D.	N.D.	PASS			
72	N.D.	N.D.	N.D.	N.D.	PASS			
73	N.D.	N.D.	N.D.	N.D.	PASS			
76	N.D.	N.D.	N.D.	N.D.	PASS			
77	N.D.	N.D.	N.D.	N.D.	PASS			
78	N.D.	N.D.	N.D.	N.D.	PASS			
79	N.D.	N.D.	N.D.	N.D.	PASS			
80	N.D.	N.D.	N.D.	N.D.	PASS			
81	N.D.	N.D.	N.D.	N.D.	PASS			
82	N.D.	N.D.	N.D.	N.D.	PASS			

Note:

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



Test Process Flow 1. Lead, Cadmium, Mercury Cut and Weigh the Add Digested Reagents or Completely dissolved and Cool Solutions Samples the Digested Solution Analyzed by ICP-OES Filter the Digested Solution Data process 2. Hexavalent Chromium (Non-metal) Cut and Weigh the Add Digested Reagents or Heat Samples at Proper Samples Solutions temperature Adjust pH value to 7.5±0.5 Cool and then Filter the Add the DI Water and Dipthenylcarbazide use Nitric acid solution Solution Adjust pH value to 2.0±0.5 Analyzed by UV-Vis use Sulfur acid solution Hexavalent Chromium (Metal) Heat Water to boil and keeping Cut sample (50+5) Add 50mL DI water to beaker 10mins cm² Add 1mL color Complement the water to 50mL Add 1mL orthophosphoric acid developing reagent

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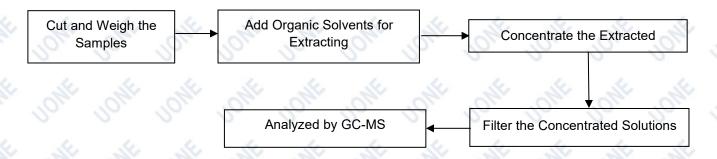
深圳市宇冠检测有限公司 Shen Zhen UONE Test Co., LTD.

Analyzed by UV-Vis



Test Process Flow (Continued):

3. PBBs & PBDEs, Phthalates



Remark: This report replaces the report whose report No. is U03601220228904E. The original report No. is U03601220228904E will be automatically nullified on the date of issuance of this report.

Photo(s) of Sample:



End of Report



Statement

- The information as listed on the first page of this test report was all provided by the client except the
 received date, testing period, test result(s) and test request. The client shall be responsible for the
 representativeness of sample and authenticity of materials, for which UONE shall bear no
 responsibilities.
- Unless otherwise stated the results shown in this report refer only the sample(s) tested and does not bear other joint and several liabilities.
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