Shenzhen AOCE Electronic Technology Service Co., Ltd.Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District,<br/>Shenzhen, Guangdong, China<br/>Tel: (86)755-85277785Tel: (86)755-85277785Fax: (86)755-23705230<br/>Email: postmaster@aoc-cert.com

Report No.: AOC210421001R

### **TEST REPORT**

Client company	:	Guangdong Lucky Up Co., Ltd.
Client address	:	Room 902, Hongli Road No.7, Dongcheng, Dongguan, Guangdong, China
Manufacturer	:	Guangdong Lucky Up Co., Ltd.
Address	:	Room 902, Hongli Road No.7, Dongcheng, Dongguan, Guangdong, China
Report on the submitted	san	nples said to be:
Sample Name	:	Ultrasonic Cleaner
Trade Mark	:	Lucky Up
Style/ Item No.	:	LU-G13, LU-G20, LU-G32, LU-G45, LU-G65, LU-G100, LU-G150, LU-G220, LU-G300, LU-D12, LU-D18, LU-D24, LU-D30, LU-D36, LU-D48, LU-D60, LU-D72, LU-H04, LU-H06, LU-H08, LU-H14, LU-H25, LU-K40, LU-K60, LU-K80, LU-C50, LU-C70, LU-C90, LU-S80, LU-S90
Sample Receiving Date	:	March 22, 2021
Testing Period	:	March 22, 2021 ~ March 30, 2021
Results	:	Please refer to next page(s).
Summary of Test Result		***************************************
TEST REQUEST		CONCLUSION
A RoHS Directive (EU	) 20 <sup>.</sup>	15/863 amending Annex II to Directive 2011/65/EU. POSITIVE
*****	*****	***************************************
Signed for and on behalf of	of AC	DCE
Written By:		Survey Su Approved by:
	File	Sunny Su administrators

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#### **Results:**

### A. EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq.	Tested Part(s)			Results	S	
No.		Pb	Cd	Hg	Cr	Br
1	Silver metal enclosure	BL	BL	BL	BL	BL
2	Blue plastic enclosure	BL	BL	BL	BL	BL
3	Black plastic enclosure	BL	BL	BL	BL	BL
4	White plastic enclosure	BL	BL	BL	BL	BL
5	Black plastic wire	BL	BL	BL	BL	BL
6	Blak plastic(plug)	BL	BL	BL	BL	BL
7	Silver metal(plug)	BL	BL	BL	BL	BL
8	Display	BL	BL	BL	BL	BL
9	White key	BL	BL	BL	BL	BL
10	Black key	BL	BL	BL	BL	BL
11	Red key	BL	BL	BL	BL	BL
12	Silver metal screw	BL	BL	BL	BL	BL
13	Chips of resistance	BL	BL	BL	BL	BL
14	Chips of capacitance	BL	BL	BL	BL	BL
15	РСВ	BL	BL	BL	BL	BL
16	Solder on PCB	BL	BL	BL	BL	BL

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Note:

- -- = Not Conducted
  - Screening by XRF and detected by chemical method. The test results of chemical method please refer to next pages.
- i Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤50-3σ <x &lt;150+3σ≤OL</x 
Pb	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ<Χ <1300+3σ≤OL	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Hg	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Cr	mg/kg	BL≤700-3σ<Χ	BL≤700-3σ<Χ	BL≤500-3σ<Χ
Br	mg/kg	BL≤300-3σ<Χ		BL≤250-3σ<Χ

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Note:

BL	=	Below	Limit

- OL = Over Limit
- X = Inconclusive
- ii The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

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 result 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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### B. The Test Results of Chemical Method:

Test method:

Lead & Cadmium Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Mercury Content:

With reference to IEC 62321-4:2013+A1:2017, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Hexavalent Chromium Content:

With reference to IEC 62321-7-1:2015, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

#### 1) The test results of Lead (Pb)

Item	Unit	MDL	Res	ults	Limit	
	Onit		(2)	(43)		
Lead Content (Pb)	mg/kg	2	38	21	1000 mg/kg	
Conclusion	1	1	Pass	Pass	/	

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### 2) The test results of PBBs & PBDEs

ltem	11	MDL	Res	sults	Lineit
item	Unit	WIDL	4	42	– Limit
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	1	N.D.	N.D.	1000 mg/kg

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Item	Unit	Init MDL		Results				
	Onit	WIDL	(1)	(4)	(6)	(7)	(9)	Limit
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit	
	Unit	WIDL	(12)	(14)	(15)	(17)	(19)		
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	

Item	Unit	MDL	Results					Limit	
	Onit	WIDL	(20)	(22)	(25)	(27)	(29)	LIIIIL	
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	

Item	Unit	MDL	Results					Limit	
	Onit	WDL	(31)	(32)	(33)	(34)	(35)	Linit	
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	

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Item	Unit	Unit MDL		Results					
litem	Onit	WDL	(36)	(37)	(38)	(39)	(40)	Limit	
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	

Item	Unit	MDL	Results					Limit
			(41)	(42)	(44)	(45)	(46)	LIIIII
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Phthalate(DEHP)								
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL		Limit			
			(47)	(48)	(49)	(50)	Limit
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo appendix is included.

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### Appendix

### Photograph of Sample



Fig.1

AOCE authenticate the photo on original report only

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