Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District,

Shenzhen, Guangdong, China

Tel: (86)755-85277785 Fax: (86)755-23705230

Http://www.aoc-cert.com Email: postmaster@aoc-cert.com

Report No.:AOC250605014R

TEST REPORT

	File	Sunny Su administrators	Alice Zhou Manager
Written By:	S	Approved by:	Alice zhou
Signed for and on behalf of	of AO	CE	
********	****	***********************	*********
A RoHS Directive (EU	201	7/2102 amending Annex II to Directive 2011/65/EU.	POSITIVE
TEST REQUEST			CONCLUSION
Summary of Test Results		************************	**********
Results	:	Please refer to next page(s).	
Testing Period	:	May 29, 2025 ~ June 5, 2025	
Sample Receiving Date	:	May 29, 2025	
Style/ Item No.	:	V450	
Trade Mark	:	Fiero	
Sample Name	:	PORTABLE SPEAKER	
Report on the submitted	sam	ples said to be:	
Address	:	The first floor to fifth of Building A, Tianxin Indus District, Shenzhen, China	trial park, Gushu, Bao'an
Manufacturer	:	SHENZHEN DELUXE-AV ELECTRONICS CO., LTD	
Client address	:	The first floor to fifth of Building A, Tianxin Indus District, Shenzhen, China	trial park, Gushu, Bao'an
Client company	:	SHENZHEN DELUXE-AV ELECTRONICS CO., LTD	

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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.	Tooted Double)	Results						
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br		
1	Black plastic enclosure	BL	BL	BL	BL	BL		
2	Black metal enclosure	BL	BL	BL	BL	BL		
3	Silver metal screw	BL	BL	BL	BL	BL		
4	Black button	BL	BL	BL	BL	BL		
5	Black wire	BL	BL	BL	BL	BL		
6	White plastic USB interface	BL	BL	BL	BL	BL		
7	Silver metal USB interface	BL	BL	BL	BL	BL		
8	Battery	BL	BL	BL	BL	BL		
9	Loudspeaker	BL	BL	BL	BL	BL		
10	Microphone	BL	BL	BL	BL	BL		
11	Chips of resistance	BL	BL	BL	BL	BL		
12	Chips of capacitance	BL	BL	BL	BL	BL		
13	PCB	BL	BL	BL	BL	BL		
14	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.

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 <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td></td><td>BL≤250-3σ<x< td=""></x<></td></x<>		BL≤250-3σ <x< td=""></x<>

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Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive

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

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
Bis(2-ethylhexyl) phthalate(DEHP)	1000
Butyl benzyl phthalate(BBP)	1000
Dibutyl phthalate(DBP)	1000
Diisobutyl phthalate(DIBP)	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, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Hexavalent Chromium Content:

With reference to IEC 62321-7-1:2013, 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)

Phthalates Content:

With reference to IEC 62321-8:2017, by gas chromatography-mass spectrometry (GC-MS)

1) The test results of Lead (Pb)

Itam	Unit	MDI	Res	ults	Limit	
Item	Onit	MDL	(1)	(2)	Limit	
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

lta-m	I I I I I I I	MDI	Res	I imale	
Item	Unit	MDL	1	2	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	1	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	Unit MDL			Results	Limit		
item	Ullit	INIDE	(1)	(2)	(3)	(4)	(5)	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	
item	Ullit		(6)	(7)	(8)	(9)	(10)	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	Unit MDL			Results	l insié		
item	Unit		(11)	(12)	(13)	(14)		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)	ma/ka	50	N.D.	N.D.	N.D.	N.D.		1000 mg/kg
Phthalate(DEHP)	mg/kg	50	IN.D.	N.D.	IN.D.	IN.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



Fig.2

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Fig.3



Fig.4

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Fig.5



Fig.6

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Fig.7

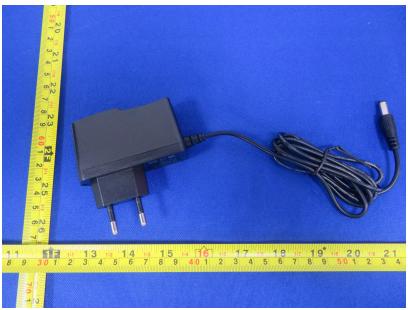


Fig.8

AOCE authenticate the photo on original report only

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