



Shenzhen Global Test Service Co.,Ltd.

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Report No.: GTS20201203002-1-1

TEST REPORT

Applicant : Aetheris Technology (Shanghai) Co., Ltd.
Address : Rm. F2002, Bldg. No.1, 151 Chuansha Rd. Pudong, New District, SH -200040, China
Manufacturer : Aetheris Technology (Shanghai) Co., Ltd.
Address : Rm. F2002, Bldg. No.1, 151 Chuansha Rd. Pudong, New District, SH -200040, China
Sample name : AIRPOP HALO Smart Respiratory Monitoring Device
Trademark : /
Model /Type : APA1703
Listed Models : /

Test Requested : As specified by client, with reference to RoHS Directiv (EU)/ 2011/65 ((EU)2015/863) , to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutuy Phthalate (DBP), Benzyl butyl phthalate(BBP), Bis-(2-ethyl hexyl)-phthalate(DEHP) and Diisobutyl phthalate(DIBP) content in the submitted sample.

Test item : Cd、Pb、Hg、Cr(VI)、PBBs、PBDEs、DBP、BBP、DEHP、DIBP

Report Number : GTS20201203002-1-1

Date of Test : Dec.01,2020

Date of Report : Dec.01,2020~ Dec.07,2020

Test by : _____

Approve by : _____





1. Tested components

No.	SAMPLE No.	COMPONENTS	MATERIAL OR COLOR	REMARK
1	A-1	Battery zinc	MIXED	SEE THE PHOTO
2	A-2	battery carbon	MIXED	SEE THE PHOTO
3	A-3	Battery sulfates	MIXED	SEE THE PHOTO
4	A-4	Battery hydrosulfate	MIXED	SEE THE PHOTO
5	A-5	Battery watermark	MIXED	SEE THE PHOTO
6	A-6	capacitor	MIXED	SEE THE PHOTO
7	A-7	resistance	MIXED	SEE THE PHOTO
8	A-8	The gasket	MIXED	SEE THE PHOTO
9	A-9	plastic shell	MIXED	SEE THE PHOTO
10	A-10	soldering tin	METAL	SEE THE PHOTO



Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)	Verdict
A-1	Battery zinc	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
A-2	battery carbon	Diisobutyl Phthalate(DIBP)	N.D.	P
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
A-3	Battery sulfates	Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	P
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
A-4	Battery hydrosulfate	Benzyl butyl phthalate (BBP)	N.D.	P
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
A-5	Battery watermark	Dibutyl Phthalate(DBP)	N.D.	P
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	



Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)	Verdict
A-6	capacitor	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
Diisobutyl Phthalate(DIBP)	N.D.			
A-7	resistance	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
Diisobutyl Phthalate(DIBP)	N.D.			
A-8	The gasket	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
Diisobutyl Phthalate(DIBP)	N.D.			
A-9	plastic shell	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
Diisobutyl Phthalate(DIBP)	N.D.			
A-10	soldering tin	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Chromium (Cr)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.A.	
		Benzyl butyl phthalate (BBP)	N.A.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.A.	
Diisobutyl Phthalate(DIBP)	N.A.			



Remark:

- (1) P=Pass; F=Fail; IC=Inconclusive; N.A.=Not Applicable
- (2) N.D.= not detected, less than MDL
- (3) mg/kg = milligram per kilogram
- (4) MDL = method detection limit
- (5) IC# represents a region, the value fell on this area need further confirmation.
- (6) *1 Exceeds XRF screening limits, need further chemical confirmation.
- (7) #1 The test result is detected in the boiling-water-extraction solution and should not be interpreted as the Cr(VI) concentration in the surface of the sample.
- (8) #2 This value is based on the concentration of extraction of 50 cm² area of the sample.
- (9) XRF screening result for reference only.
- (10) The product photo was in the report provided by the applicant



2. Test Method

Chemical testing methods & Equipments

Testing Item	Testing Method
Lead (Pb)	IEC62321-5-2013 (Ed1.0)
Cadmium (Cd)	IEC62321-5-2013 (Ed1.0)
Mercury (Hg)	IEC62321-4-2013 (Ed1.0)
Hexavalent chromium (Cr(VI)) for plastic	IEC62321:2008 (Ed1.0) annex C
Hexavalent chromium (Cr(VI)) for coating on metals	IEC62321-7-1-2015
PBBs	IEC62321-6-2015 (Ed1.0)
PBDEs	IEC62321-6-2015 (Ed1.0)
DBP	EN 14372:2004 clause 6.3.2
BBP	EN 14372:2004 clause 6.3.2
DEHP	EN 14372:2004 clause 6.3.2
DIBP	EN14372:2004 clause 6.3.2

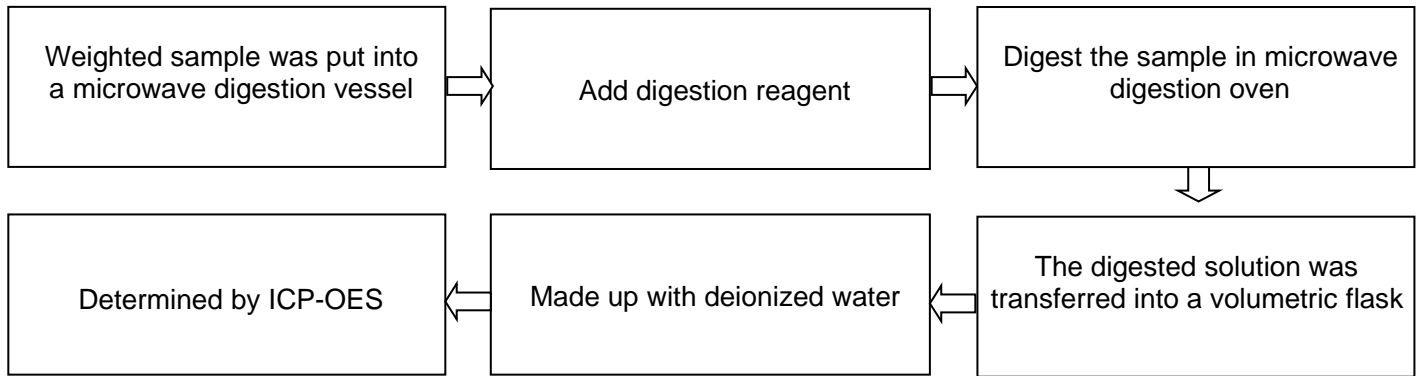
3. RoHS Requirement(mg/kg) :

Restricted substances	Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	BBP	DBP	DEHP	DIBP
RoHS limit	100	1000	1000	1000	1000	1000	1000	1000	1000	1000

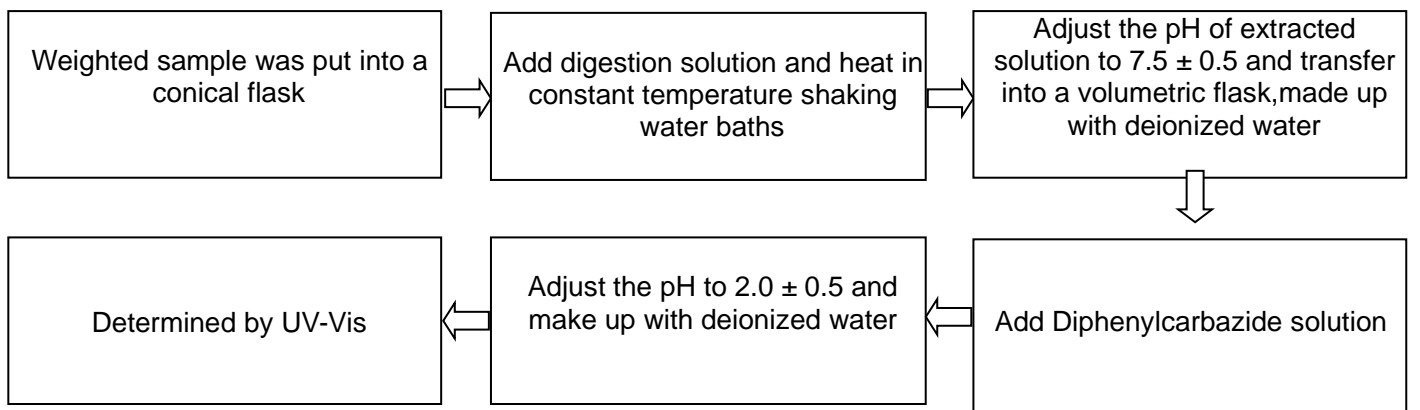


4. Measurement Flowchart

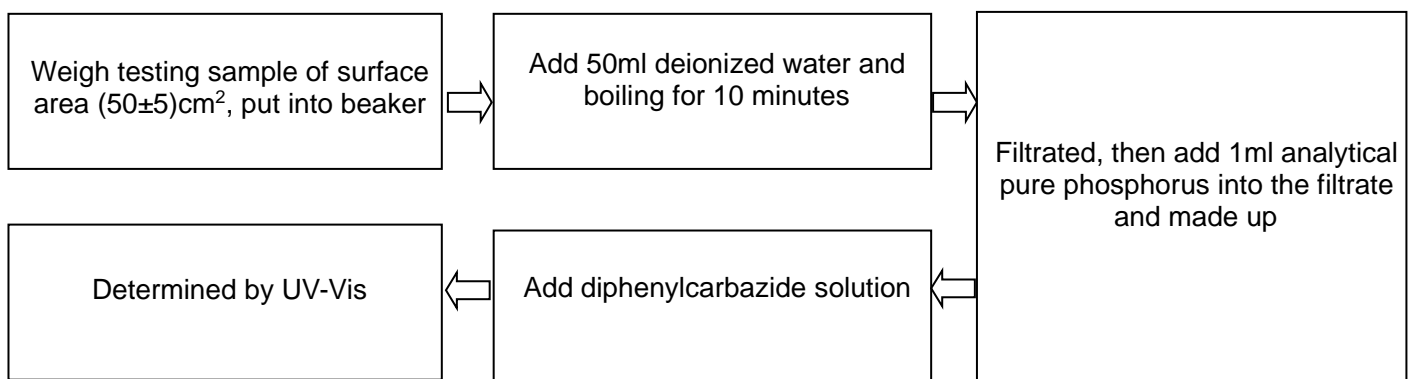
a. Test for Cd / Pb /Hg contents)



b. Test for Cr(VI) content (for non-metal)

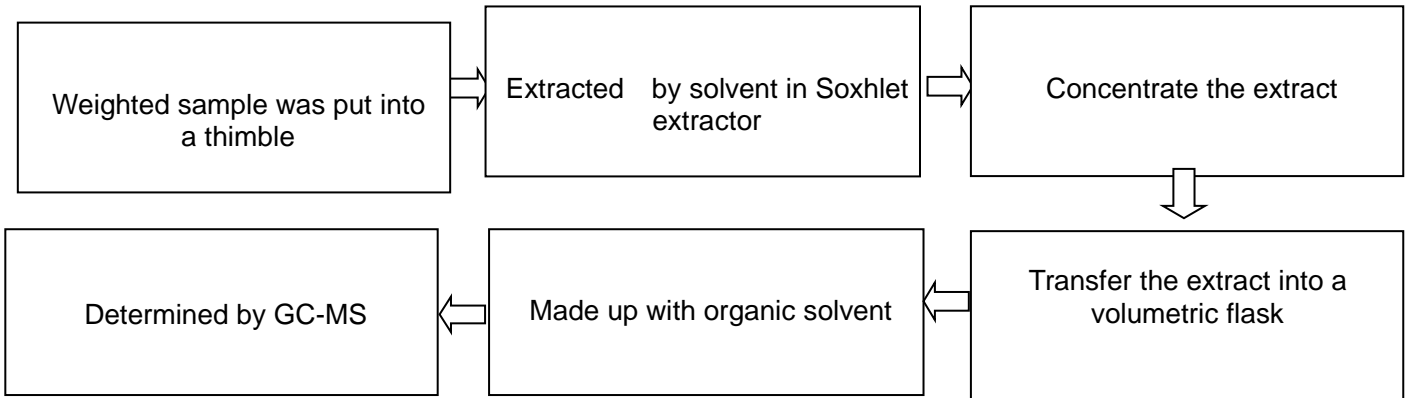


c. Test for Cr(VI) content (for metal)





d. Test for PBBs,PBDEs,DBP,BBP,DEHP,DIBP



5. Photo(s) of the sample(s)



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