TEST REPORT

Applicant:	**SHENZHEN HELLVAPE TECHNOLOGY CO., LTD**
Address:	**404, No.12 Tongfuyu Industrial Zone, Heping Community, Bao'an District, Shenzhen, Guangdong, China**

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client:

Sample Name	Dead Rabbit Solo RTA
Model No.	Dead Rabbit Solo RTA
Trademark	Hellvape
Manufacturer	SHENZHEN HELLVAPE TECHNOLOGY CO., LTD
Sample Received Date	September 21, 2023
Testing Period	September 22 - 26, 2023
Test Method & Test Result	Please refer to following pages.

Test Requested	**Result**
As specified by client, according to RoHS Directive 2011/65/EU with amendment (EU) 2015/863, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Phthalates(DBP, BBP, DEHP, DIBP) in the tested materials of the submitted sample(s).	**Pass**

Tested by: ..... **Approved by:** .....

Reviewed by: ..... **Date of issue:** September 28, 2023

SHENZHEN ALPHA PRODUCT TESTING CO.,LTD ALPHA PRODUCT TESTING

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Test Method

(1) XRF screening limits for regulated elements according to IEC 62321-3-1:2013 (Unit: mg/kg)

Element	Polymers	Metals	Composite material
Pb	BL≤(700-3σ) <X <(1300+3σ)≤OL	BL≤(700-3σ) <X <(1300+3σ)≤OL	BL≤(500-3σ)<X <(1500+3σ)≤OL
Cd	BL≤(70-3σ)<X <(130+3σ)≤OL	BL≤(70-3σ)<X <(130+3σ)≤OL	LOD<X<(150+3σ) ≤OL
Hg	BL≤(700-3σ)<X <(1300+3σ)≤OL	BL≤(700-3σ)<X <(1300+3σ)≤OL	BL≤(500-3σ)<X <(1500+3σ)≤OL
Cr	BL≤(700-3σ)< X	BL≤(700-3σ)< X	BL≤(500-3σ)< X
Br	BL≤(300-3σ)< X	N/A	BL≤(250-3σ)< X

(2) Chemical screening limits for PBBs, PBDEs

Test Item(s)	Screening limits(Unit: mg/kg)
Polybrominated Biphenyls (PBBs)	BL*≤200 <IN
Polybrominated Diphenyl Ethers (PBDEs)	BL*≤200 <IN

(3) Chemical screening limits for Phthalates

Test Item(s)	Screening limits(Unit: mg/kg)
Dibutyl phthalate(DBP)	BL≤600 <IN
Benzylbutyl phthalate(BBP)	BL≤600 <IN
Di-2-ethylhexyl phthalate(DEHP)	BL≤600 <IN
Diisobutyl phthalate(DIBP)	BL≤600 <IN

(4) Chemical Test

Test Item	Test Method	Test Instrument	MDL (mg/kg)	EU RoHS Limit (mg/kg)
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2	1000
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2	100
Mercury (Hg)	IEC 62321-4:2013 +AMD1:2017	ICP-OES	2	1000
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 (non-metal)	UV-Vis	8	1000
	IEC 62321-7-1:2015 (metal)	UV-Vis	0.1(μg/cm^2)	1000
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5	1000
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5	1000
Phthalates(DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	50	1000

Tested Material Description

No.	Description	No.	Description
1	Transparent glass shell	8	Silvery metal screw
2	Black plastic mouthpiece	9	Silvery metal cylinder
3	Silvery metal cover	10	Black silicone ring
4	Silvery metal ring	11	Black silicone ring
5	Black silicone ring	12	Silvery metal base
6	Silvery metal sheet	13	Copper colored metal block
7	White silicone gasket		

Tested Result
(1)Screening Result

Tested Item(s)	Screening Result									
	1	2	3	4	5	6	7	8	9	10
Lead (Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr(VI))	BL	BL	X	X	BL	X	BL	X	X	BL
Total Bromine (PBBs & PBDEs)	BL	BL	N/A	N/A	BL	N/A	BL	N/A	N/A	BL
Dibutyl phthalate(DBP)	BL	BL	N/A	N/A	BL	N/A	BL	N/A	N/A	BL
Benzylbutyl phthalate(BBP)	BL	BL	N/A	N/A	BL	N/A	BL	N/A	N/A	BL
Di-2-ethylhexyl phthalate(DEHP)	BL	BL	N/A	N/A	BL	N/A	BL	N/A	N/A	BL
Diisobutyl phthalate(DIBP)	BL	BL	N/A	N/A	BL	N/A	BL	N/A	N/A	BL

Tested Item(s)	Screening Result		
	11	12	13
Lead (Pb)	BL	BL	BL
Cadmium (Cd)	BL	BL	BL
Mercury (Hg)	BL	BL	BL
Total Chromium (Cr(VI))	BL	X	BL
Total Bromine (PBBs & PBDEs)	BL	N/A	N/A
Dibutyl phthalate(DBP)	BL	N/A	N/A
Benzylbutyl phthalate(BBP)	BL	N/A	N/A
Di-2-ethylhexyl phthalate(DEHP)	BL	N/A	N/A
Diisobutyl phthalate(DIBP)	BL	N/A	N/A

(2) Test result for Chemical Confirmation

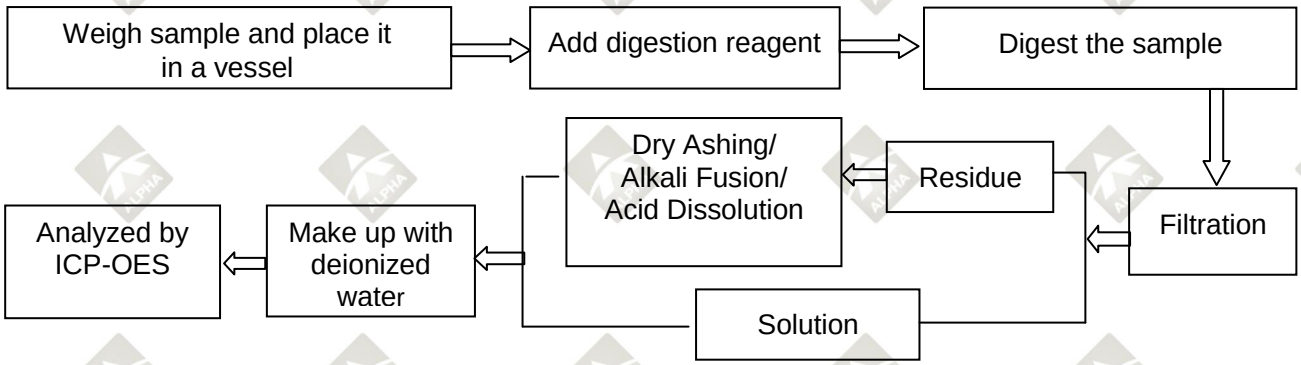
(a) The test result of Hexavalent Chromium (Cr(VI)):

Testing item	Result (mg/kg)					
	3	4	6	8	9	12
Hexavalent Chromium (Cr(VI))	N.D	N.D	N.D	N.D	N.D	N.D

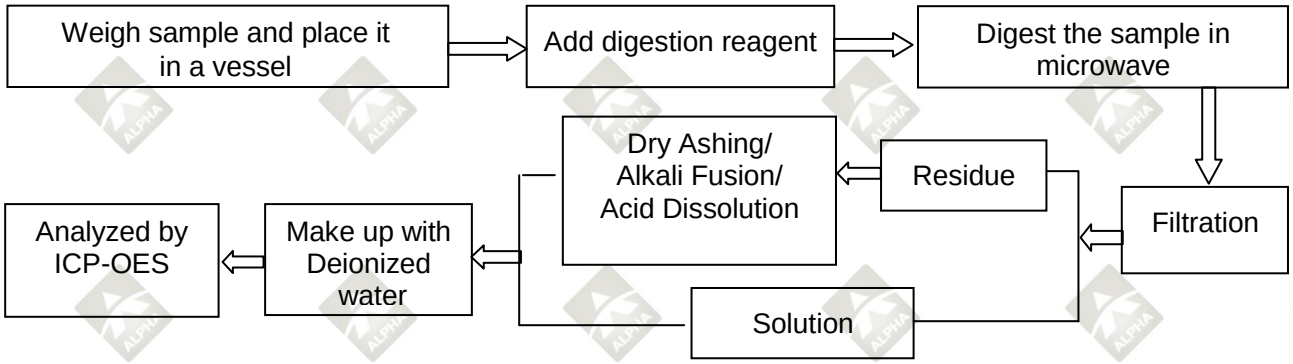
Remark: N.D = Not Detected (< MDL or LOQ), MDL = Method Detection Limit
IN= Inconclusive, Further chemical test, X = The range of needing to do further testing
BL = Below the screening limit, OL = Over the screening limit.
N/A= Not applicable
3σ= The reproducibility of analytical instruments
* = The screened result was found and further chemical test
When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br exclusively, and then chemical screening was conducted if the XRF result is X.
When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.
LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm^2
LOD= Detection limit
mg/kg = ppm = parts per million, 1000 mg/kg = 0.1%

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)

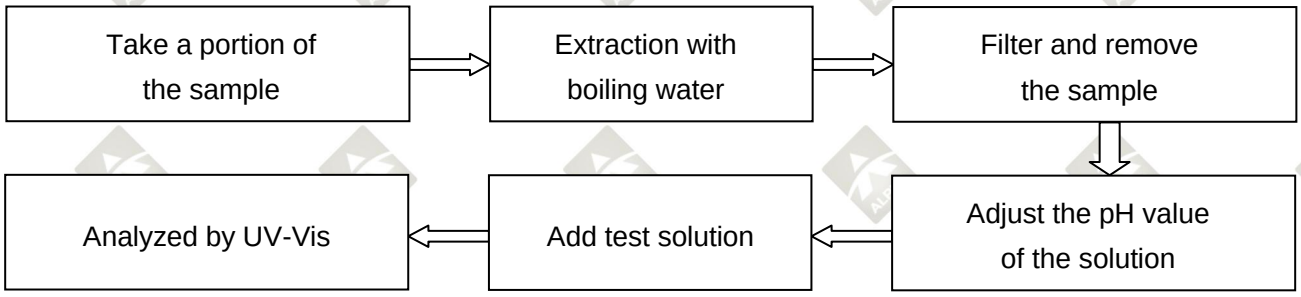


2. Mercury(Hg)

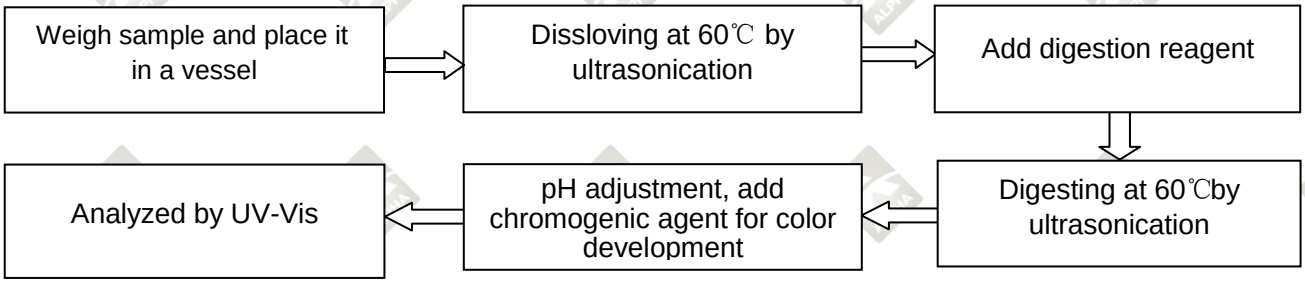


3. Hexavalent Chromium (Cr (VI))

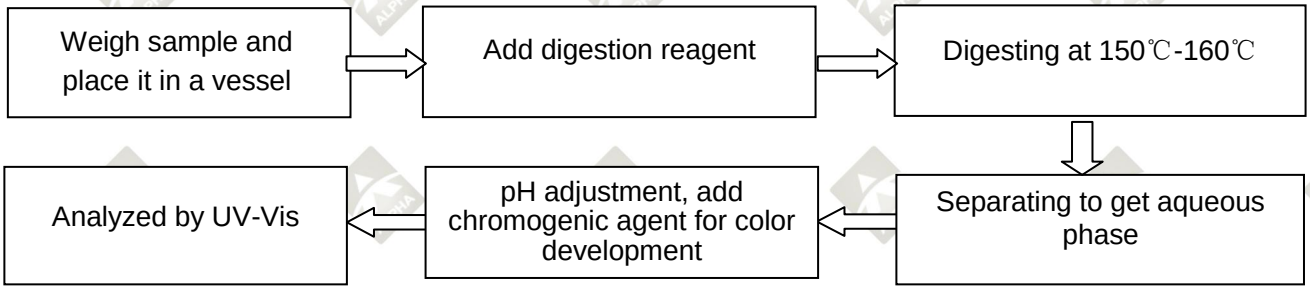
(1) IEC 62321-7-1:2015
Plating/Metal sample(s)



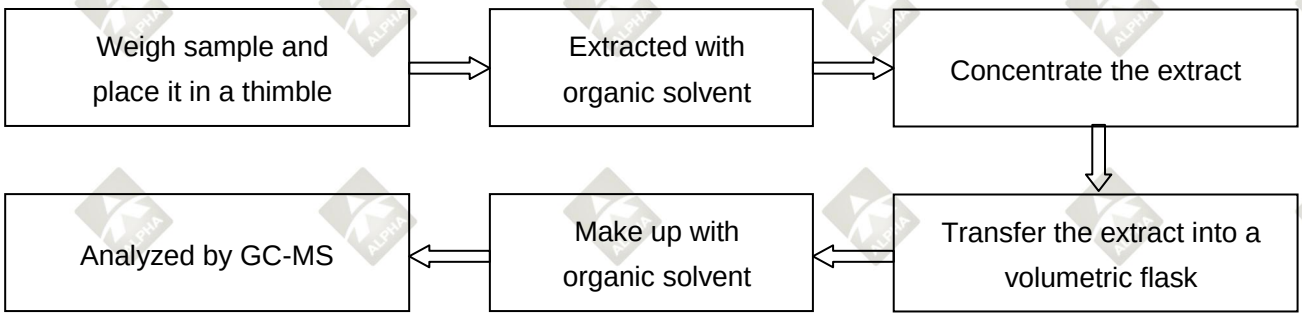
(2) IEC 62321-7-2:2017
Non-metal sample(s) (Material ABS/PC/PVC)



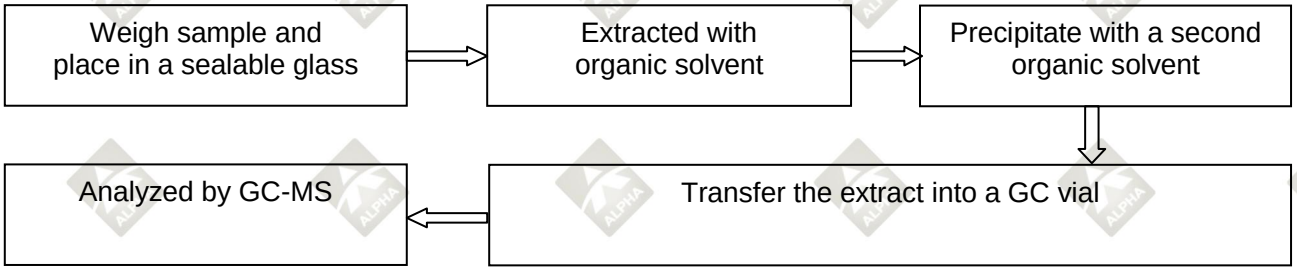
(3) IEC 62321-7-2:2017
Non-metal sample(s) (Others)



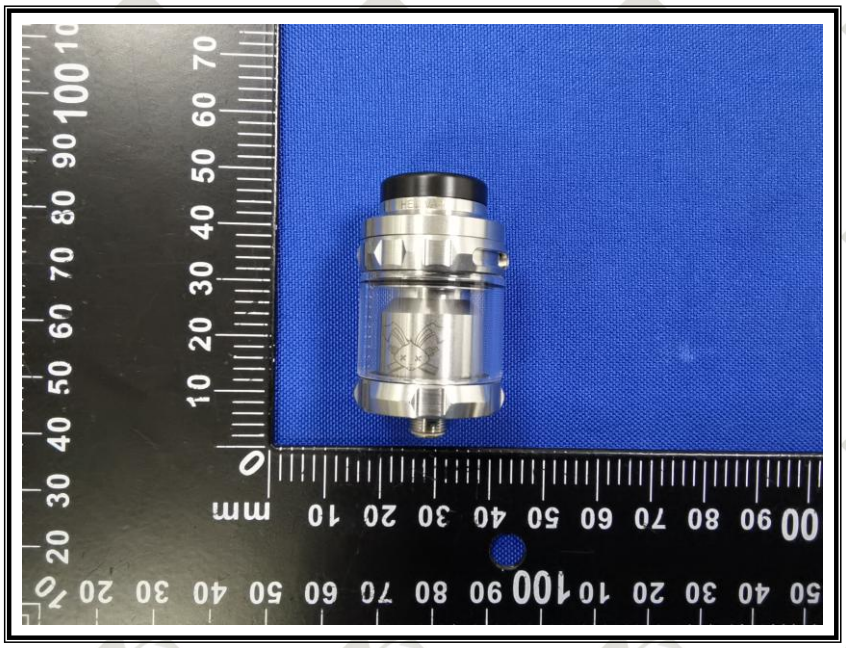
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

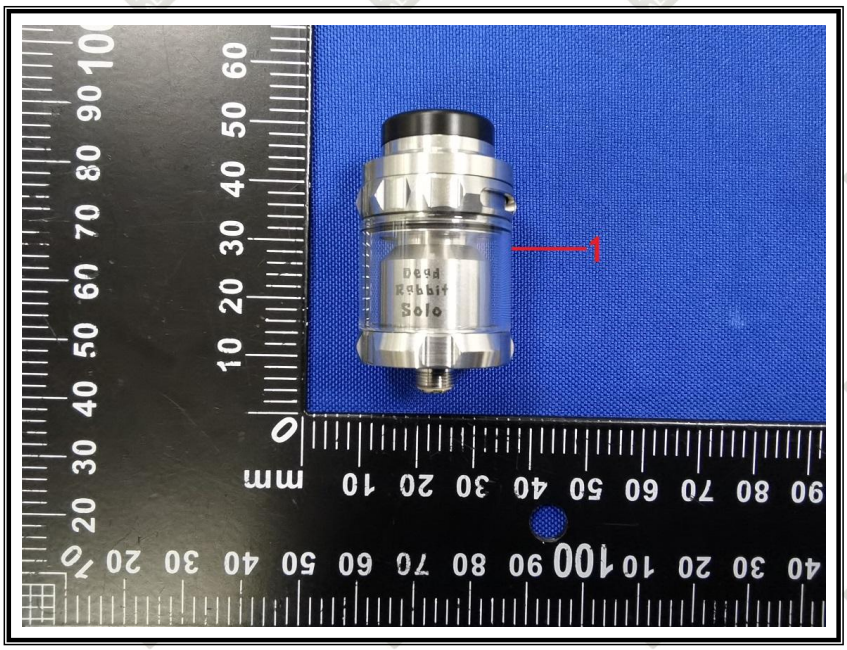


5. Phthalates(DBP/BBP/DEHP/DIBP)

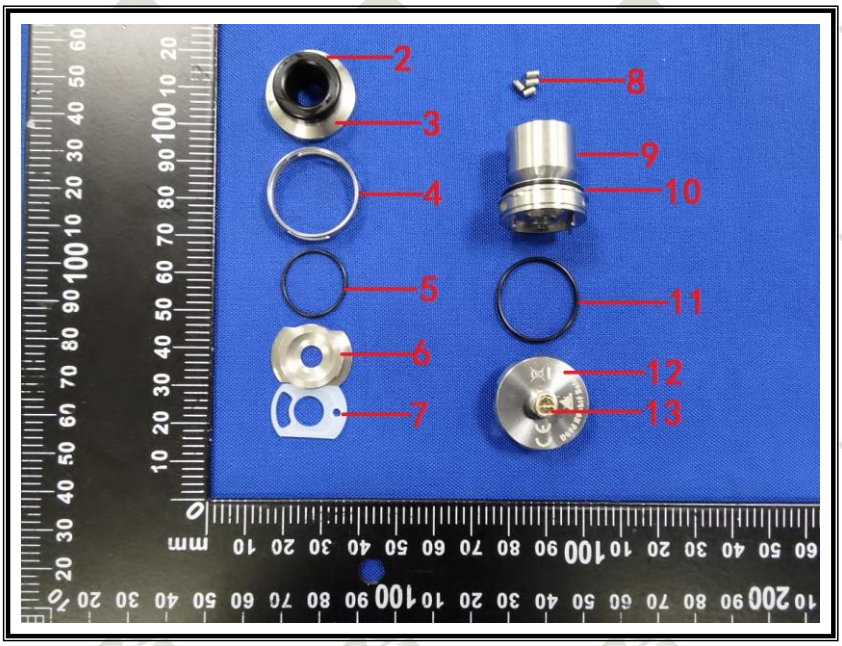


Tested sample photo(s)





Tested sample photo(s)



--- End of report ---

Statement:
1. The sample(s) and sample Information was/were provided by the client who should be responsible for the authenticity which ALPHA hasn't verified.
2. The result(s) shown in this report refer(s) only to the sample(s) tested.
3. Without written approval of ALPHA, this report can't be reproduced except in full.
4. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.