

Date: June 30, 2022



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Applicant:

Address:

Shenzhen Flame Technology Co., Ltd.

MOTI PIIN C4000, LOMO FINE C4000

Shenzhen Flame Technology Co., Ltd.

Please refer to following pages.

Plant 3003, West Block, Hengfang Laobing Building, No.3012, Xingye Road, Labour Community, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, China

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

MOTI, LOMO

June 22, 2022

June 24 - 29, 2022

Sample Name

Trademark

Manufacturer

Sample Received Date

Testing Period

Test Method & Test Result

Test Requested

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

Result

Tested by:

Reviewed by:

Date of issue:

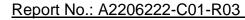
Approved by:





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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) <Χ	BL≤(700-3σ) <Χ	BL≤(500-3σ)<Χ
FD	<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL
Cd	BL≤(70-3σ)<Χ <(130+3σ)≤OL	BL≤(70-3σ)<Χ	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>
Cu	BE=(70-30)~X ~(130-30)=0E	<(130+3σ)≤OL	EOD < X < (130 + 30) = OE
Hg	BL≤(700-3σ)<Χ	BL≤(700-3σ)<Χ	BL≤(500-3σ)<Χ
iig	<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(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 Phthalates

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

(3) 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	IEC 62321-7-2:2017 (non-metal)	UV-Vis	8	1000
(Cr(VI))	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



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Tested Material Description

No.	Description	No.	Description
1	Orange red coating of cigarette rod	16	Gray green atomizing core
2	Silvery metal cigarette rod	17	Green separator of battery
3	Grey black plastic pod	18	Red separator of battery
4	Colorless transparent plastic base	19	Chip LED light
5	Orange red plastic base	20	Microphone solder point
6	White silicone stopper of cigarette mouth	21	Microphone
7	White silicone cover for cigarette rod base	22	Blue wire sheath of connecting wire
8	Black plastic inner frame of cigarette rod	23	Black wire sheath of connecting wire
9	Copper-colored metal contact pin of inner frame	24	Red wire sheath of connecting wire
10	White silicone ring of cigarette rod inner frame	25	Silvery metal core of connecting wire
11	White silicone cover of atomizer	26	Electrode solder point
12	Black plastic base of atomizer	27	Battery electrode sheet
13	White cotton pad of cigarette rod inner frame	28	Brown transparent glue of battery
14	White silicone base of cigarette rod	29	Light yellow smoke oil
15	White silicone base of atomizer		ý ý

Tested Differential Material Description

No.	Description	No.	Description
30	Purple coating of cigarette rod	33	Orange yellow coating of cigarette rod
31	Pink coating of cigarette rod	34	Orange green coating of cigarette rod
32	Orange coating of cigarette rod	~	



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Tested Result (1)Screening Result

		Screening Result									
Tested Item(s)	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	Х	BL	BL							
Total Bromine (PBBs & PBDEs)	BL	N/A	BL	BL	BL	BL	BL	BL	N/A	BL	
Dibutyl phthalate(DBP)	BL	N/A	BL	BL	BL	BL	BL	BL	N/A	BL	
Benzylbutyl phthalate(BBP)	BL	N/A	BL	BL	BL	BL	BL	BL	N/A	BL	
Di-2-ethylhexyl phthalate(DEHP)	BL	N/A	BL	BL	BL	BL	BL	BL	N/A	BL	
Diisobutyl phthalate(DIBP)	BL	N/A	BL	BL	BL	BL	BL	BL	N/A	BL	

Tastad Itam(s)		Screening Result								
Tested Item(s)	11	12	13	14	15	16	17	18	19	20
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	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A
Dibutyl phthalate(DBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A
Benzylbutyl phthalate(BBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A
Di-2-ethylhexyl phthalate(DEHP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A
Diisobutyl phthalate(DIBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A
	•			•						

Tested Item(s)	Screening Result									
	21	22	23	24	25	26	27	28	29	30
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	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs)	N/A	BL	BL	BL	N/A	N/A	N/A	BL	BL	BL
Dibutyl phthalate(DBP)	N/A	BL	BL	BL	N/A	N/A	N/A	BL	BL	BL
Benzylbutyl phthalate(BBP)	N/A	BL	BL	BL	N/A	N/A	N/A	BL	BL	BL
Di-2-ethylhexyl phthalate(DEHP)	N/A	BL	BL	BL	N/A	N/A	N/A	BL	BL	BL
Diisobutyl phthalate(DIBP)	N/A	BL	BL	BL	N/A	N/A	N/A	BL	BL	BL

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(1)Screening Result

Tantad Karr(a)		Screening Result									
Tested Item(s)	31	32	33	34							
Lead (Pb)	BL	BL	BL	BL							
Cadmium (Cd)	BL	BL	BL	BL							
Mercury (Hg)	BL	BL	BL	BL							
Total Chromium (Cr(VI))	BL	BL	BL	BL							
Total Bromine (PBBs & PBDEs)	BL	BL	BL	BL							
Dibutyl phthalate(DBP)	BL	BL	BL	BL							
Benzylbutyl phthalate(BBP)	BL	BL	BL	BL							
Di-2-ethylhexyl phthalate(DEHP)	BL	BL	BL	BL							
Diisobutyl phthalate(DIBP)	BL	BL	BL	BL							

(2) Test result for Chemical Confirmation

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

Testing item	Result (mg/kg)
	2
Hexavalent Chromium (Cr(VI))	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.

When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \mu g/cm^2$

LOD= Detection limit

mg/kg = ppm = parts per million, 1000 mg/kg = 0.1%

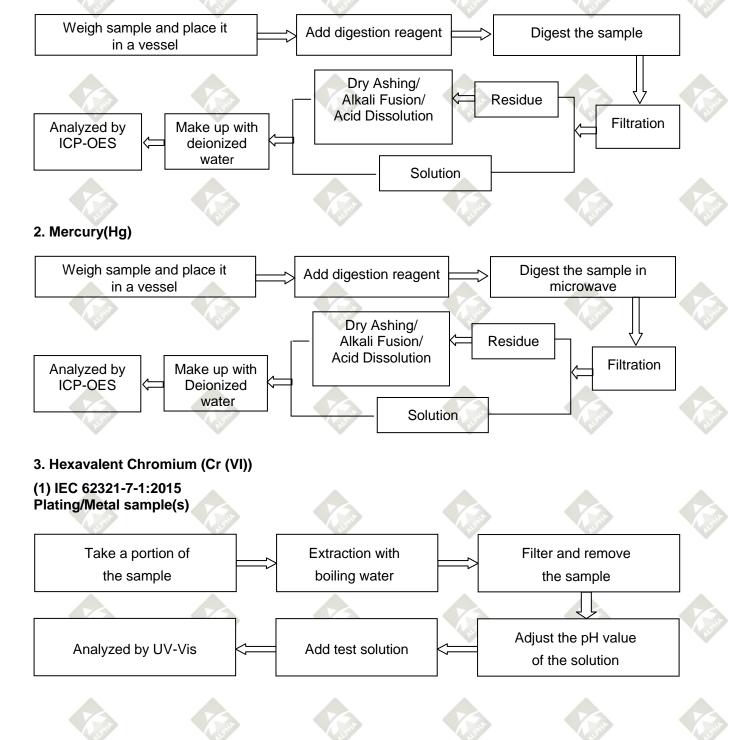


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Test Process

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



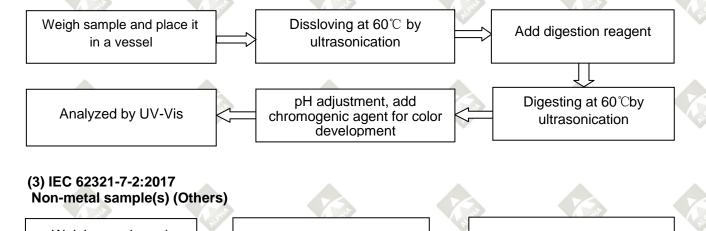


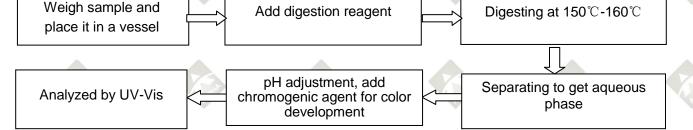
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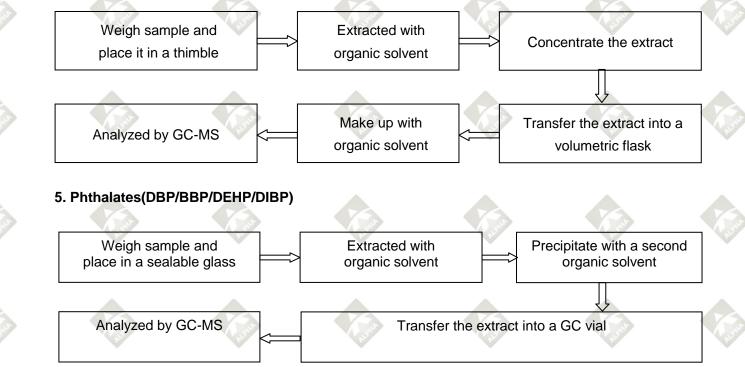
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(2) IEC 62321-7-2:2017 Non-metal sample(s) (Material ABS/PC/PVC)





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



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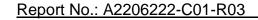
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Tested sample photo(s)

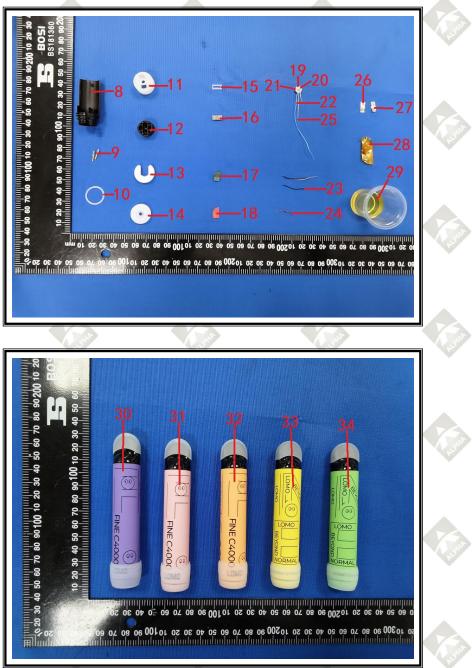




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Tested sample photo(s)



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.

--- End of report ---

- The result(s) shown in this report refer(s) only to the sample(s) tested.
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- 4. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

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