中国认可
国际互认
检测
TESTING
CNAS L21870

Test Report

Sample Name: UVC LED Water Disinfection System

Sample model: MP-UVC-9LC

Applicant: MASSPHOTON LIMITED

Report date: 2025-04-30

Fujian Berton Testing Service Co., Ltd.

1/F., Building 2, No.23, Xinye Road, Wuping, Longyan, Fujian, china
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Test Report

Test Report No.	BT250522612179EN
Date of Issue	2025-04-30
Standard(s)	Selected test (s) in the selected parts as requested by client with the RoHS 2.0 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.

CLIENT INFORMATION:

Testing Laboratory name	Fujian Berton Testing Service Co., Ltd.
Address of Laboratory	1/F., Building 2, No.23, Xinye Road, Wuping, Longyan, Fujian, china
Applicant	MASSPHOTON LIMITED
Address of Applicant	Unit 542, 5/F, Building 5W, Phase One, Hong Kong Science Park, Pak Shek Kok, New Territories,Hong Kong
Manufacturer	MASSPHOTON LIMITED
Address of Manufacture	Unit 542, 5/F, Building 5W, Phase One, Hong Kong Science Park, Pak Shek Kok, New Territories,Hong Kong

SAMPLEINFORMATION:

Sample Name	UVC LED Water Disinfection System
Sample Model	MP-UVC-9LC
Additional model	MP-UVC-200LB, MP-UVC-180LB, MP-UVC-150LB, MP-UVC-130LB, MP-UVC-110LB, MP-UVC-100LB, MP-UVC-90LB, MP-UVC-70LB, MP-UVC-60LB, MP-UVC-50LB, MP-UVC-50LC, MP-UVC-48LB, MP-UVC-48LC, MP-UVC-35LB, MP-UVC-35LC, MP-UVC-30LB, MP-UVC-30LC, MP-UVC-25LB, MP-UVC-25LC, MP-UVC-24LB, MP-UVC-24LC, MP-UVC-18LB, MP-UVC-18LC, MP-UVC-16LB, MP-UVC-16LC, MP-UVC-15LB, MP-UVC-15LC, MP-UVC-12LB, MP-UVC-12LC, MP-UVC-9LC1, MP-UVC-9LC0, MP-UVC-9LC, MP-UVC-9LB, MP-UVC-7.5LC, MP-UVC-7.5LB, MP-UVC-6LC, MP-UVC-6LB, MP-UVC-4LC1, MP-UVC-4LC0, MP-UVC-4LB, MP-UVC-3LB, MP-UVC-3LC, MP-UVC-2LB, MP-UVC-2LC, MP-UVC-1.5LB, MP-UVC-0.8LB, MP-UVC-0.5LB, MP-UVC-0.3LB, MP-UVC-0.1LB
Trademark	/
Testing Period:	2025-04-25～2025-04-30

OVERALL RESULT:

Test Result(S)	PASS

Approved by: Chen Gang **Reviewed by:** Gina **Tested by:** Lee

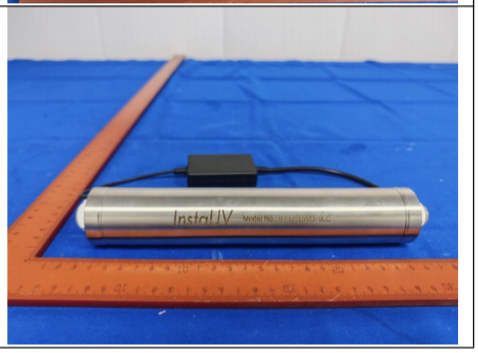
Fujian Berton Testing Service Co., Ltd. APPROVED

Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2014	ICP-OES	mg/kg	100	3
Lead(Pb)	IEC 62321-5:2014	ICP-OES	mg/kg	1000	3
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	3
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	$\mu g/cm^2$	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		**PBDEs**	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

Sample Description:

No.	Name	Description	picture
1	Outer Shell	Mental	
2	pontes	Rubber	

Test Result

Test Item(s)	No.1	No.2
Cadmium (Cd)	N.D.	N.D.
Lead (Pb)	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.
PBBs	--	N.D.
PBDEs	--	N.D.
Dibutyl Phthalate (DBP)	--	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.

Note: 1. mg/kg= ppm

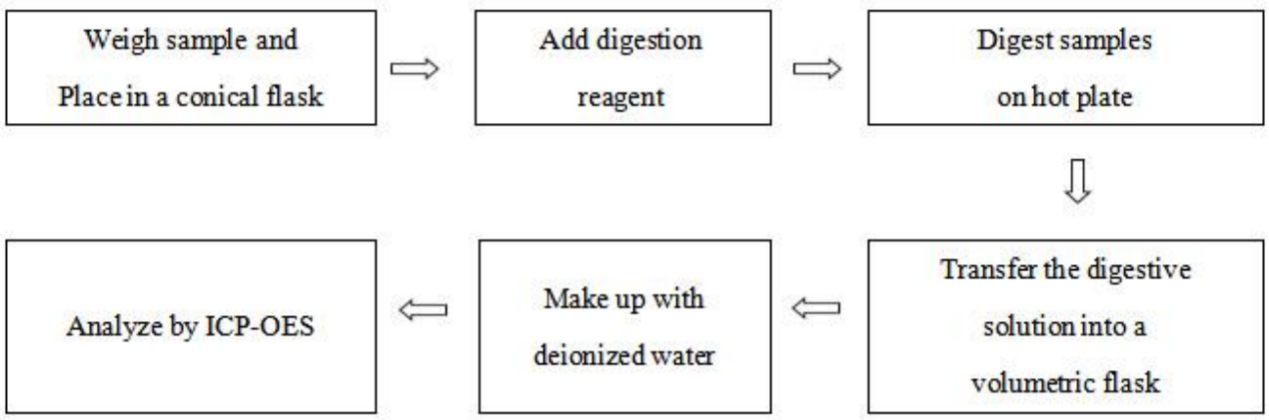
2. N.D.= Not Detected(<MDL)

3. MDL = Method Detection Limit

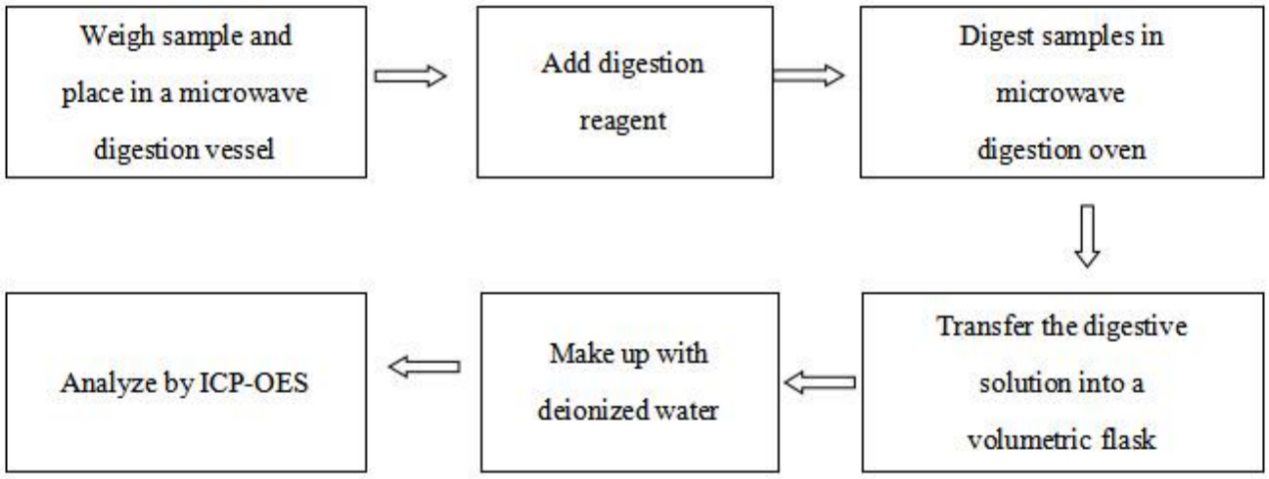
4. -- = No Testing

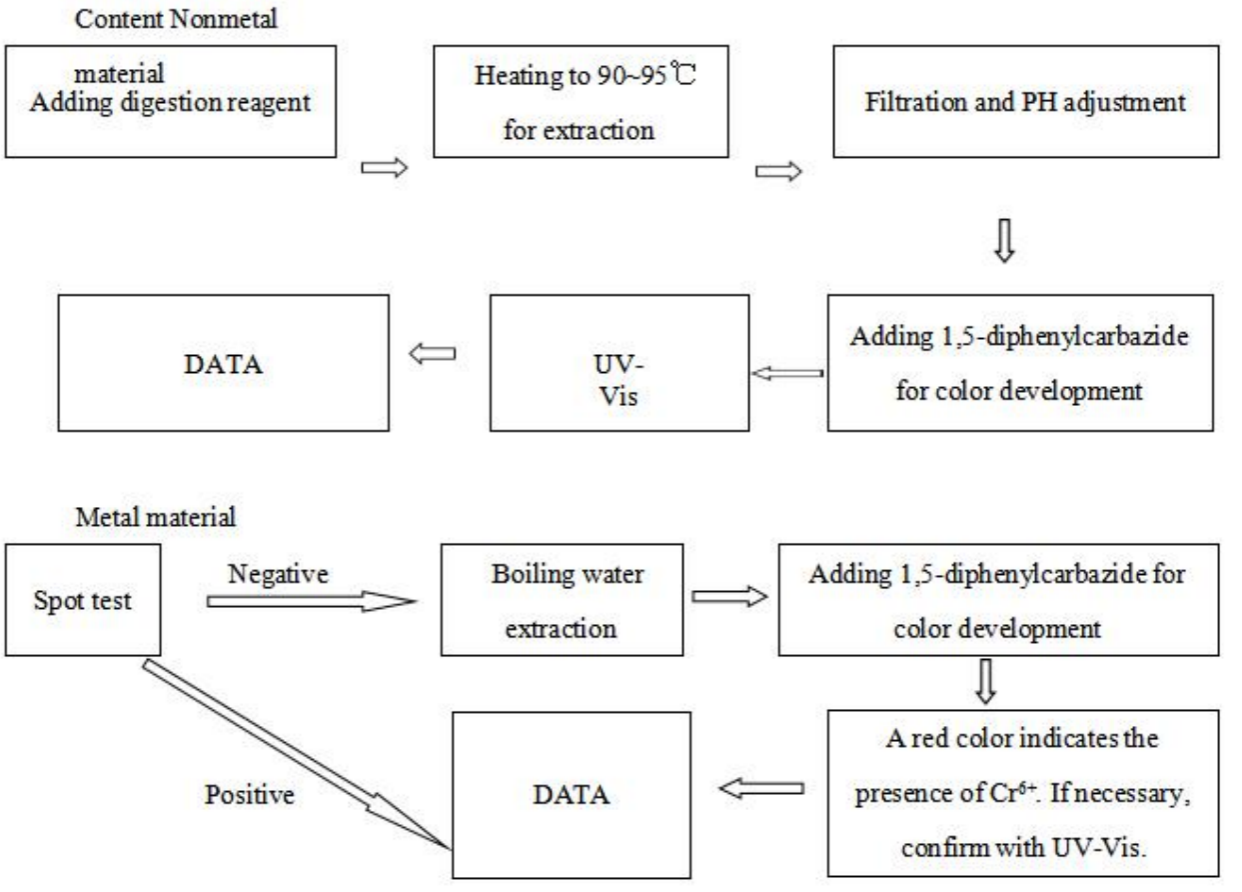
5. when Cr(VI) in a sample is detected below the 0.10 μg/cm² LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 μg/cm² and 0.29 μg/cm² has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.29 μg/cm², the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Test Process:

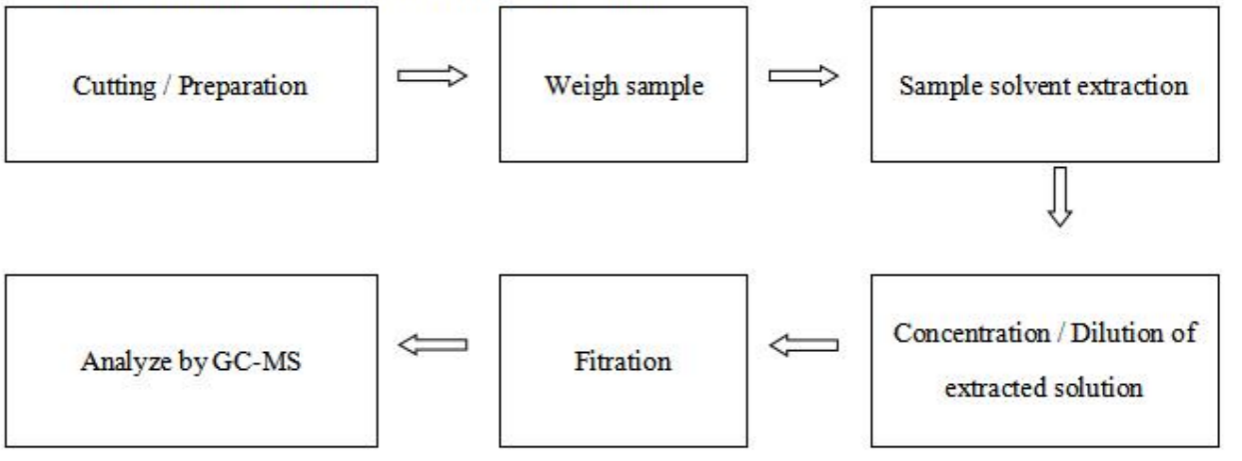


2. Test for Hg Content





4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



Appearance of the Product





*** End of Report ***