



TEST REPORT

Report No. : ZKT-25081119336R

Issue Date : Aug. 21, 2025

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Applicant name : Advanced Health Solutions B.V.

Address : Veerstraat 13A 1404CG, Bussum Noord-Holland The Netherlands

Sample Description

Sample name : LED THERAPY LIGHT

Trade mark : 

Model No. : ATP PRO 1500
ATP PRO 700; ATP PRO 350

Manufacturer : Advanced Health Solutions B.V.

Address : Veerstraat 13A 1404CG, Bussum Noord-Holland The Netherlands

Test Requested

No.	Requested	Conclusion
1	RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102 —Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content —Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	PASS

Reviewer by :



Approved by :





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Testing Laboratory : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, ShenZhen, China.

Test Report Form No. : TF: 2025-07

Received Date : Aug. 11, 2025

Testing Period : Aug. 11, 2025 to Aug. 21, 2025

Version

Report No.	Issue Date	Description	Approved
ZKT-25081119336R	Aug. 21, 2025	Original	Valid

Statement

1. The information as listed on the first page of this test report was all provided by the client except the received date, testing period, test result(s) and test request. The client shall be responsible for the representativeness of sample and authenticity of materials, for which Shenzhen ZKT Testing Technology Co., Ltd. shall bear no responsibilities.
2. The test report is effective only with both signature and specialized stamp. Without written approval of Shenzhen ZKT Testing Technology Co., Ltd., this report can't be reproduced in full or in part.
3. This test data is only responsible for the tested sample. Shenzhen ZKT Testing Technology Co., Ltd. is not responsible for any economic and legal responsibility for the use of the test data, the direct or indirect losses resulting from the use of the test and all legal consequences.
4. If there is any objection to the report, client shall lodge a complaint with the company on the 30 working days from the date of receipt of the report. No late application will be accepted.



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Test Method:

Test item(s)	Test Method(s)	Equipment(s)	MDL
Chemical Testing			
Mercury(Hg)	IEC 62321-4:2013+A1:2017	ICP-OES	2mg/kg
Lead(Pb)	IEC 62321-5:2013	ICP-OES	2mg/kg
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	2mg/kg
PBB	IEC 62321-6:2015	GC-MS	2mg/kg
PBDE			2mg/kg
Chromium(Cr VI) for colourless and coloured corrosion-protected coatings on metals	IEC 62321-7-1:2015	UV-Vis	0.10µg/cm2
Chromium(Cr VI) for polymers and electronics	IEC 62321-7-2:2017	UV-Vis	2mg/kg
DEHP	IEC 62321-8:2017	GC-MS	30mg/kg
DBP			30mg/kg
BBP			30mg/kg
DIBP			30mg/kg



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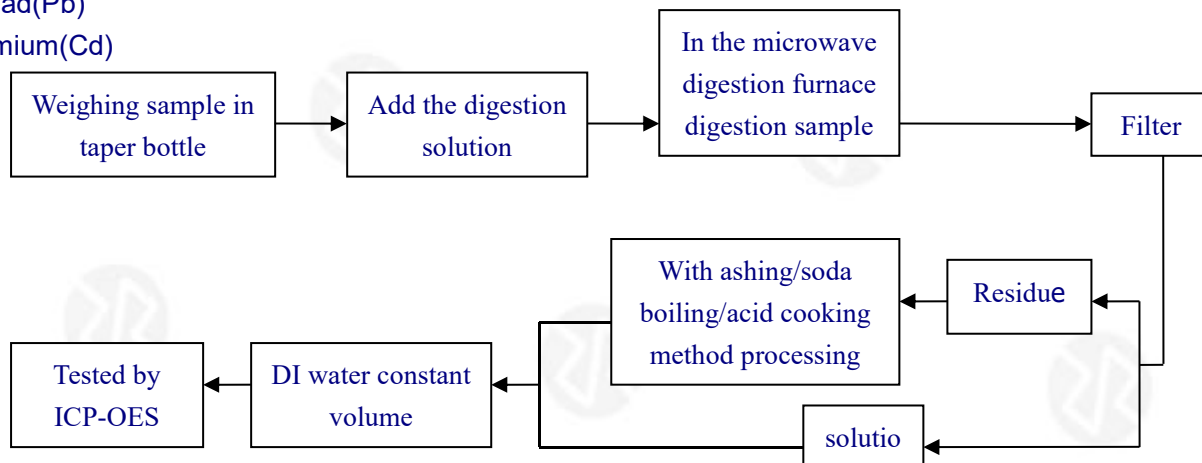
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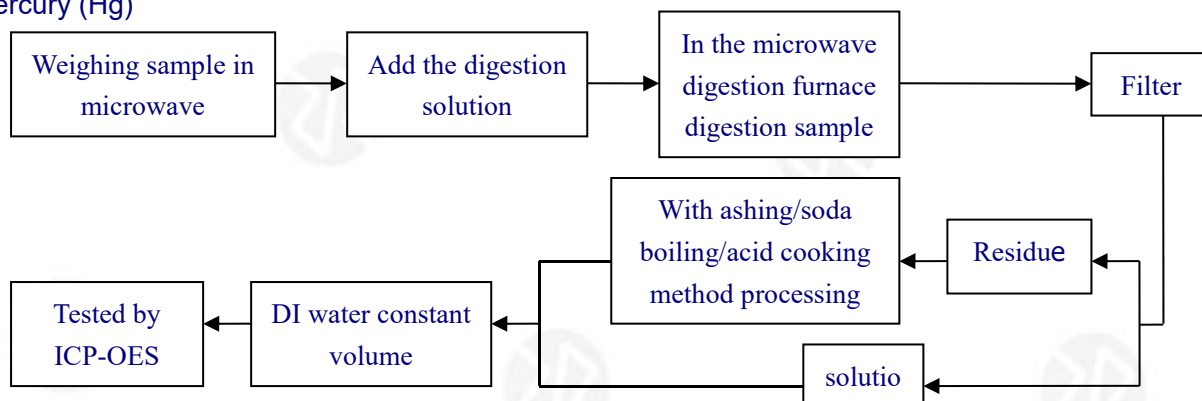
Test Flow:

1. Lead(Pb)

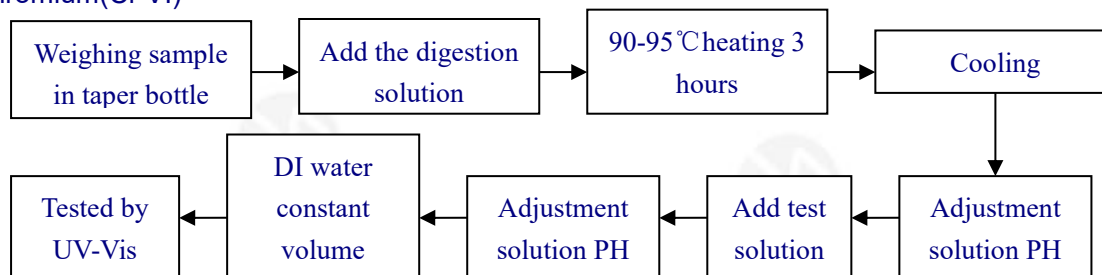
Cadmium(Cd)



2. Mercury (Hg)



3. Chromium(Cr VI)





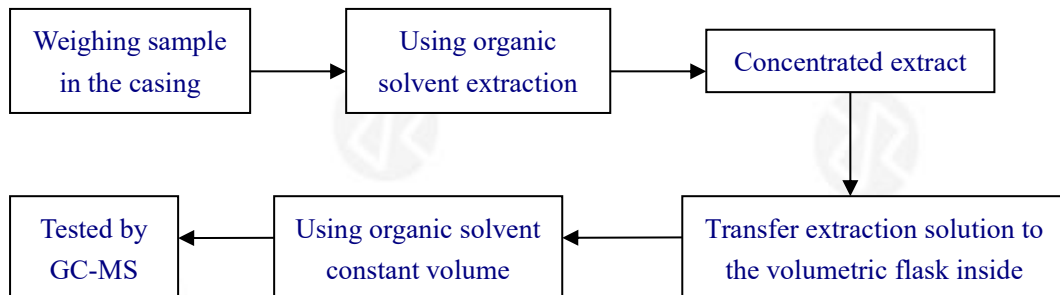
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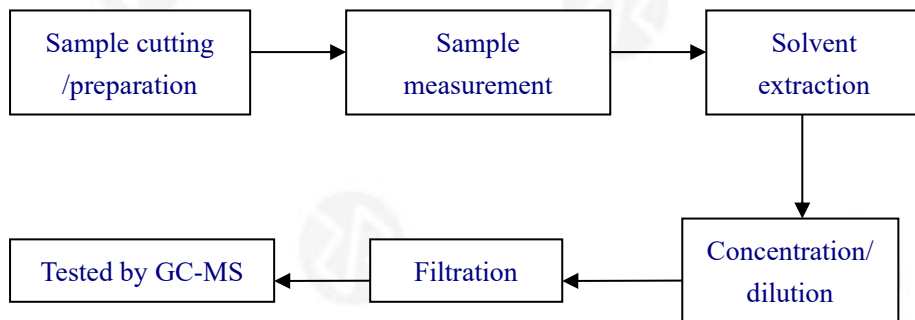
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4. PBBs/ PBDEs



5. DEHP/ BBP/ DBP/ DIBP





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Test Sample Description:

Sample No.	Description
1	White plastic
2	Transparent plastic
3	Silver metal
4	Black plastic
5	Black wire
6	Silver plastic
7	LED
8	Appliance inlet
9	White metal
10	Red plastic
11	Screw



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Test Results:

RoHS screening test

Heavy metal (Cadmium Chromium Mercury Lead)content & Bromine content

Test Method : IEC 62321-3-1:2013

Analysis By : Energy Dispersive X-ray Fluorescence Spectrometers.

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
1	BL	BL	BL	BL	BL
2	BL	BL	BL	BL	BL
3	BL	BL	BL	BL	N.A.
4	BL	BL	BL	BL	BL
5	BL	BL	BL	BL	BL
6	BL	BL	BL	BL	BL
7	BL	BL	BL	BL	BL
8	BL	BL	BL	BL	BL
9	BL	BL	BL	BL	N.A.
10	BL	BL	BL	BL	BL
11	BL	BL	BL	BL	N.A.

Note:

1. All Concentrations express in “mg/kg” (milligram per kilogram)
2. mg/kg ~ ppm
- 3.“OL” denotes “over limit”
4. “BL” denotes “below limit”
5. “NA” denotes “Not Applicable”
6. “Inconclusive” denotes result is intermediate between “OL” and “BL”
7. “^”denotes the screening result was inconclusive(X) or over limit (OL)
8. thus further confirmation test was conducted results are listed in Heavy Metals Test and Flame retardants Test



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XRF screening limits for different materials:

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Metal	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	NA
Polymers	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X < (1500+3\sigma) \leq OL$
Composite material	$BL \leq (50-3\sigma) < X < (150+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (250-3\sigma) < X < (1500+3\sigma) \leq OL$



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Heavy Metals Test

Lead, Cadmium, Hexavalent Chromium and Mercury Tests

Test Method : IEC 62321-4:2013+A1:2017 & IEC 62321-5:2013 & IEC 62321-7-1:2015 & IEC 62321-7-2:2017

Analysis By : ICP-OES & UV-VIS.

Element	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [µg/cm ²]	Hexavalent Chromium [mg/kg]
Detection Limit	5	5	5	0.10	5
Limit	100	1000	1000	0.10	1000

Note:

1. All Concentrations express in "mg/kg"(milligram per kilogram)

mg/kg ~ ppm.

2. "ND" = "Not Detected".

3. Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is less than 0.10µg with 1cm² sample surface area. Positive = Presence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is greater than 0.13µg with 1cm² sample surface area.

Inconclusive = the detected concentration in boiling-water-extraction solution is greater than 0.10µg and less than 0.13µg with 1cm² sample surface area.

4. Positive = result be regarded as not comply with RoHS requirement

Negative = result be regarded as comply with RoHS requirement

5. "-" = Not regulated



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Flame retardants Test

PBBs&PBDEs Content

Test Method : IEC 62321-6:2015

Analysis by : GC-MS

Test Item		Result [mg/kg]	RoHS Requirement [mg/kg]
		/	
PBBs	Monobromobiphenyl	< 5	-
	Dibromobiphenyl	< 5	-
	Tribromobiphenyl	< 5	-
	Tetrabromobiphenyl	< 5	-
	Pentabromobiphenyl	< 5	-
	Hexabromobiphenyl	< 5	-
	Heptabromobiphenyl	< 5	-
	Octabromobiphenyl	< 5	-
	Nonabromobiphenyl	< 5	-
	Decabromobiphenyl	< 5	-
	Sum of PBBs	< 5	< 1000
PBDEs	Monobromodiphenyl Ether	< 5	-
	Dibromodiphenyl Ether	< 5	-
	Tribromodiphenyl Ether	< 5	-
	Tetrabromodiphenyl Ether	< 5	-
	Pentabromodiphenyl Ether	< 5	-
	Hexabromodiphenyl Ether	< 5	-
	Heptabromodiphenyl Ether	< 5	-
	Octabromodiphenyl Ether	< 5	-
	Nonabromodiphenyl Ether	< 5	-
	Decabromodiphenyl Ether	< 5	-
	Sum of PBDEs	< 5	< 1000

Note:

1. All Concentrations express in "mg/kg" (milligram per kilogram)
2. mg/kg ~ ppm.
3. "<" denotes less than



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Phthalate Test

DEHP&BBP&DBP&DIBP Content

Test Method : IEC 62321-8:2017

Analysis By : GC-MS.

Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	50	50	50	50
Limit	1000	1000	1000	1000
1	N.D.	N.D.	N.D.	N.D.
2	N.D.	N.D.	N.D.	N.D.
4	N.D.	N.D.	N.D.	N.D.
5	N.D.	N.D.	N.D.	N.D.
6	N.D.	N.D.	N.D.	N.D.
7	N.D.	N.D.	N.D.	N.D.
8	N.D.	N.D.	N.D.	N.D.
10	N.D.	N.D.	N.D.	N.D.

Note:

1. All Concentrations express in "mg/kg"(milligram per kilogram)
2. mg/kg ~ ppm.
3. "ND" = "Not Detected".



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Submitted Sample Photo

Photo 1

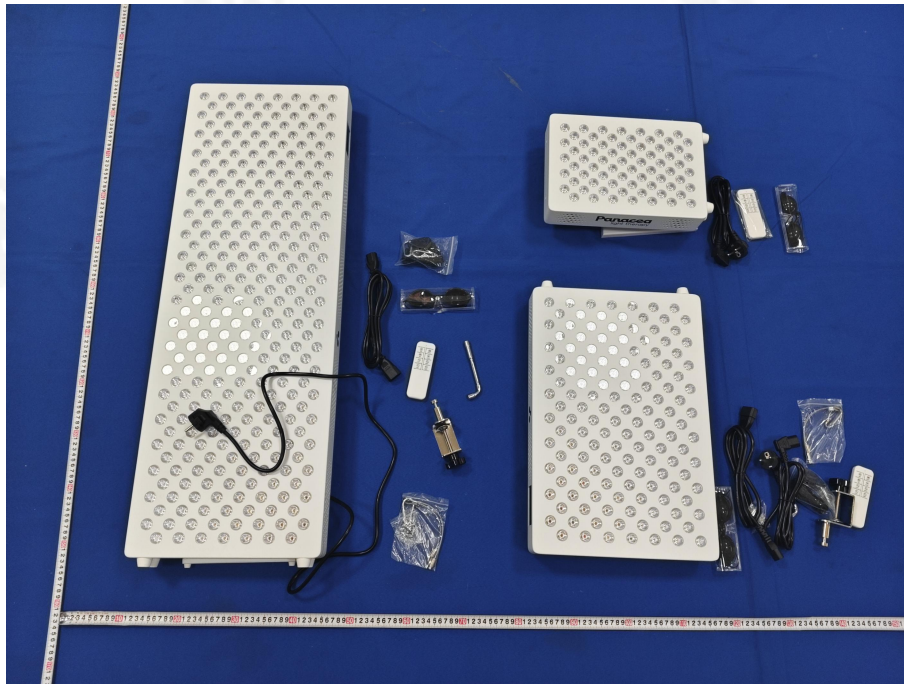
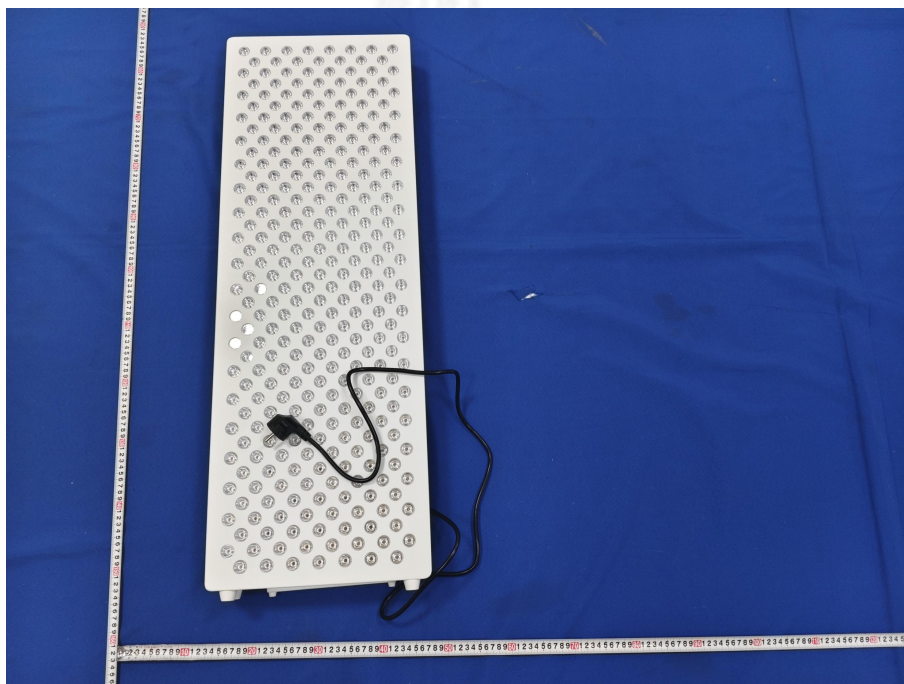


Photo 2





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Photo 3

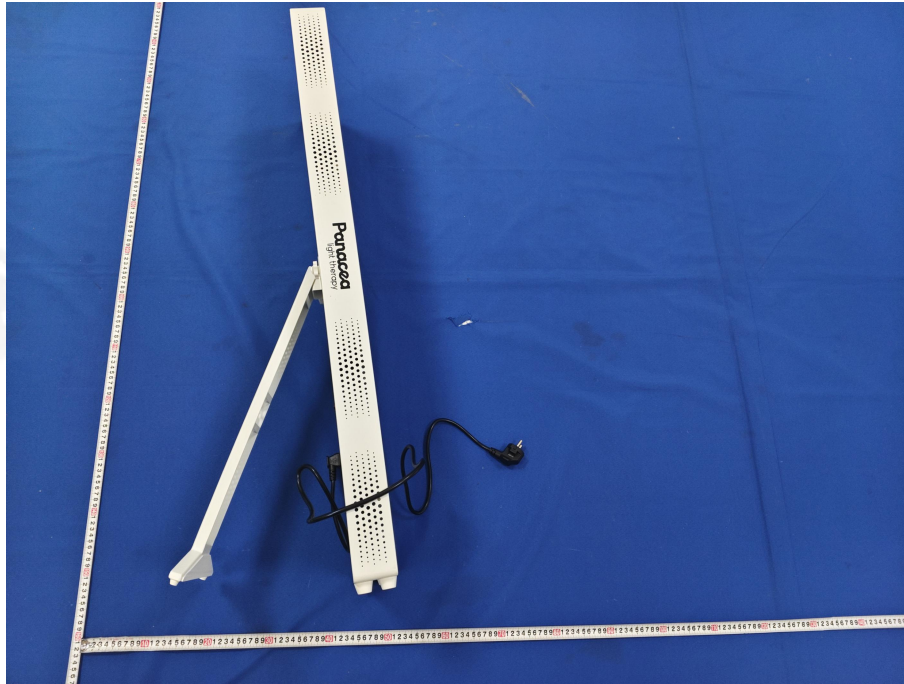
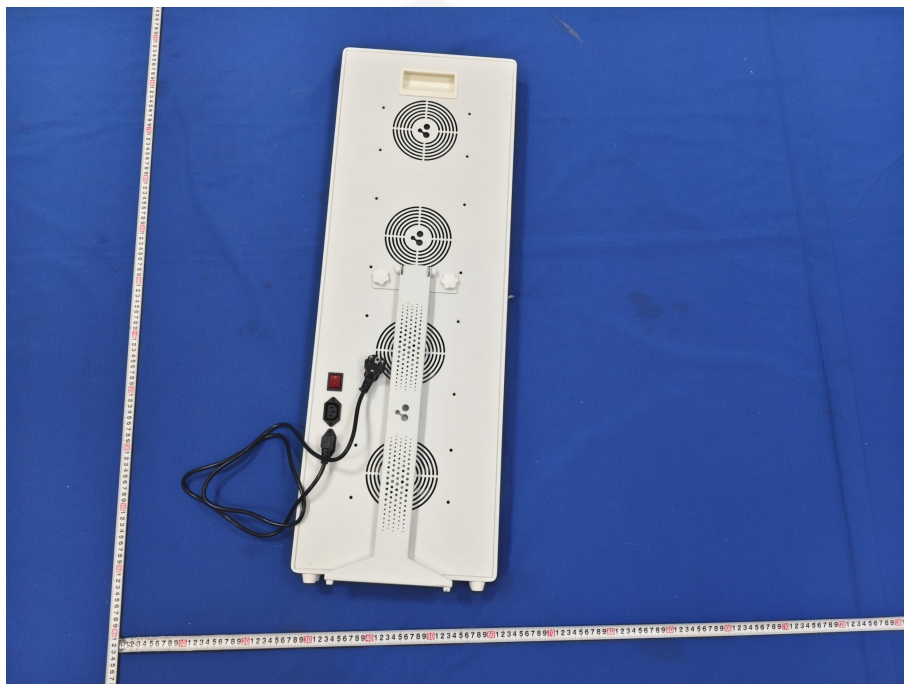


Photo 4



***** END OF REPORT*****