

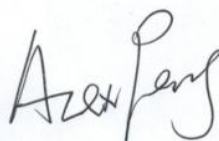
TEST REPORT

Customer information	Client	Shenzhen Longsheng Energy Technology Co., Ltd.
	Address	301, Building 1, AI Digital Valley, Taoyuan Community, Dalang Street, Longhua District, Shenzhen, China
Sample information	Name of sample	Foldable Solar Panel
	Test Model No.	LS-SP30F, LS-SP35F, LS-SP40F, LS-SP45F, LS-SP50F, LS-SP55F, LS-SP60F, LS-SP65F, LS-SP70F, LS-SP75F, LS-SP80F, LS-SP85F, LS-SP90F, LS-SP95F, LS-SP100F
	Model difference	The samples in the report are only different in appearance, the materials used and the internal structure are exactly the same. This test was conducted on a sample of model: LS-SP30F, and the test results covered all models of this application.
	Trade mark	
	Lot number	----
	Manufacturer	Shenzhen Longsheng Energy Technology Co., Ltd.
	Address	301, Building 1, AI Digital Valley, Taoyuan Community, Dalang Street, Longhua District, Shenzhen, China
Test information	Sample received	June 01, 2026
	Testing date	June 01, 2026 to June 09, 2026
	Test sort	Commission Test
	Requested/item	RoHS directive 2011/65/EU Annex II amending Annex(EU)2015/863. (1) Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content. (2) Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate(DBP), Disobutyl phthalate(DIBP) Content.
	Standard/Foundation	(1)With reference to IEC 62321-3-1:2013, scanning by XRF Spectroscopy Chemical test method: With reference to IEC 62321-5:2013, determination of Cadmium, lead by ICP With reference to IEC 62321-4:2013+AMD1:2017, determination of Mercury by ICP With reference to IEC 62321-7-2:2017&IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric method. With reference to IEC 62321-6:2015 determination of PBBs and PBDEs by GC-MS (2)With reference to IEC 62321-8:2017, and analysis was performed by GC-MS.
	Conclusion	(1)The tested sample complied with RoHS directive (2011/65/EU). (2)The tested part of submitted sample complied with directive (EU)2015/863.
Remark	----	

Tested By:



Checked By:



Approved By:



Date: 2026/06/09

Date: 2026/06/09

Date: 2026/06/09

SHENZHEN SIT TESTING TECHNOLOGY CO LTD.

Room 401, A2 Building, The 2nd Industrial Zone of ZhuAo, GuShu Village, XiXiang Town, BaoAn District, ShenZhen
Hotline:400-6633-940 Tel: +86-755-29173399 FAX: +86-755-29179933 http://www.sit-cert.com

Test result: 1. Structural parts

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
1	Solar silicon panel	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
2	Dark gray cloth	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
3	Green character	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
4	Metal ring	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
5	Black plastic shell	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
6	Black silicone	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P

SHENZHEN SIT TESTING TECHNOLOGY CO LTD.

Room 401, A2 Building, The 2nd Industrial Zone of ZhuAo, GuShu Village, XiXiang Town, BaoAn District, ShenZhen
Hotline:400-6633-940 Tel: +86-755-29173399 FAX: +86-755-29179933 <http://www.sit-cert.com>

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
7	White glue	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
8	Black fill block	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
9	Red plastic wire skin	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
10	Black plastic wire skin	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
11	Silvery metal wire core	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
12	Screw	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
13	Silvery metal	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
14	Black metal buckle	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
15	PCB board	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
16	Green coating	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
17	Solder	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
18	Chip resistor	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
19	Chip capacitor	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
20	Diode	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
21	IC black plastic	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
22	IC metal feet	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
23	Inductor	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
24	Silvery capacitor shell	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
25	Black plastic	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
26	Red LED	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
27	Metal feet	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
28	Black plastic	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
29	Silvery metal	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
30	Black plastic slot	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
31	Type-C metal feet	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
32	Type-C metal port	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
33	Type-C black plastic port	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P
34	USB metal feet	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
35	USB metal port	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
36	USB orange plastic port	Cd	P	N.D.	<100	P
		Cr(VI)	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	P	N.D.	<1000	P
		PBDEs	P	N.D.	<1000	P

Remark:

- 1 It is the result on total Br while test PBBs and PBDEs by EDXRF. It is the result on total Cr while test Hexavalent Chromium by EDXRF.
- 2 Results are obtained by EDXRF for primary screening, and chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (Cr(VI)) and GCMS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value With reference to IEC 62321-8:2017(unit:mg/kg)
- 3.

Element	Polymer	Metal	Composite Materials
Cd	$P \leq 70 - 3\sigma < D < 130 + 3\sigma \leq F$	$P \leq 70 - 3\sigma < D < 130 + 3\sigma \leq F$	$P \leq 50 - 3\sigma < D < 150 + 3\sigma \leq F$
Pb	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 500 - 3\sigma < D < 1500 + 3\sigma \leq F$
Hg	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 500 - 3\sigma < D < 1500 + 3\sigma \leq F$
Br	$P \leq 300 - 3\sigma < D$	----	$P \leq 250 - 3\sigma < D$
Cr	$P \leq 700 - 3\sigma < D$	$P \leq 700 - 3\sigma < D$	$P \leq 500 - 3\sigma < D$

P = PASS; F = FAIL; D = DETECTED;

4. mg/kg = ppm; N.D. = NOT DETECTED (<MDL) Pb, Cd, Hg, Cr(VI): 2mg/kg; PBBs, PBDEs: 5mg/kg
5. With reference to IEC 62321:-7-1:2015, result on Cr (VI) for metal sample is shown as Positive/Negative. Positive = Presence of Cr(VI) coating, Negative = Absence of Cr(VI) coating
- 6 *According to Annex III of European Council Directive 2011/65/EU, Lead in copper alloy containing up to 4% lead by weight.
- 7 **According to Annex III of European Council Directive 2011/65/EU, Lead in steel alloy containing up to 0.35% lead by weight.
- 8 #According to Annex III of European Council Directive 2011/65/EU, Cadmium and its compounds in electrical contacts is exempted.

(3) DEHP, BBP, DBP, DIBP

ITEM \ SAMPLE No.	SAMPLE CONCENTRATION (mg/kg)							MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
	1	2	3	5	6	7	8		
Di-2-ethylhexyl phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Benzylbutyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

ITEM \ SAMPLE No.	SAMPLE CONCENTRATION (mg/kg)							MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
	9	10	15	16	18	19	20		
Di-2-ethylhexyl phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Benzylbutyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

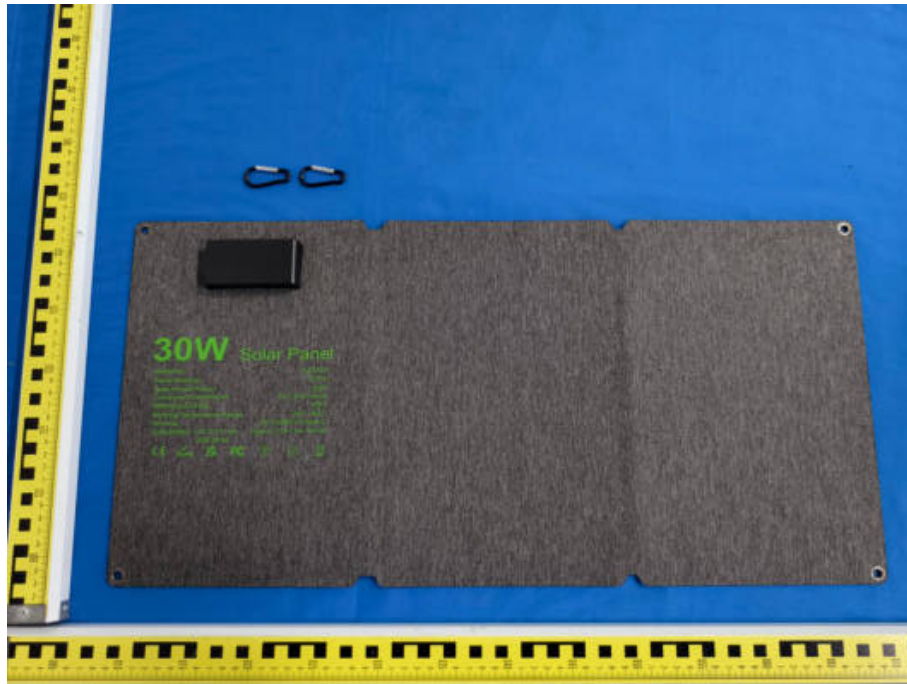
ITEM \ SAMPLE No.	SAMPLE CONCENTRATION (mg/kg)						MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
	21	24	25	26	28	30		
Di-2-ethylhexyl phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Benzylbutyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

ITEM \ SAMPLE No.	SAMPLE CONCENTRATION (mg/kg)		MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
	33	36		
Di-2-ethylhexyl phthalate (DEHP)	N.D.	N.D.	30	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	30	1000
Benzylbutyl phthalate (BBP)	N.D.	N.D.	30	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	30	1000

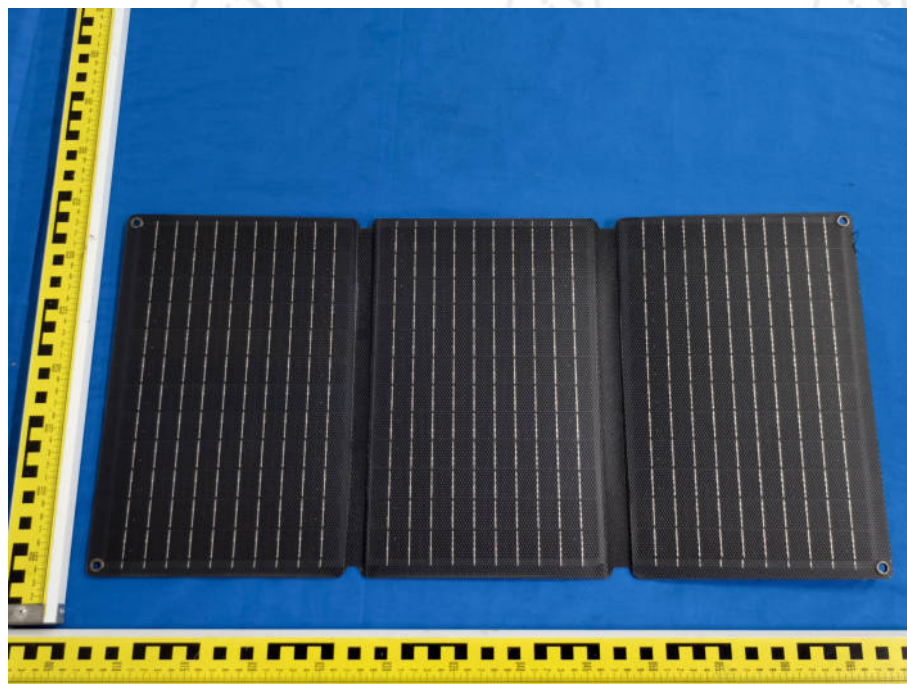
Note: MDL = Method Detection Limit, N.D.=not detected (<Method Detection Limit).

Sample photo

Appearance photograph of EUT

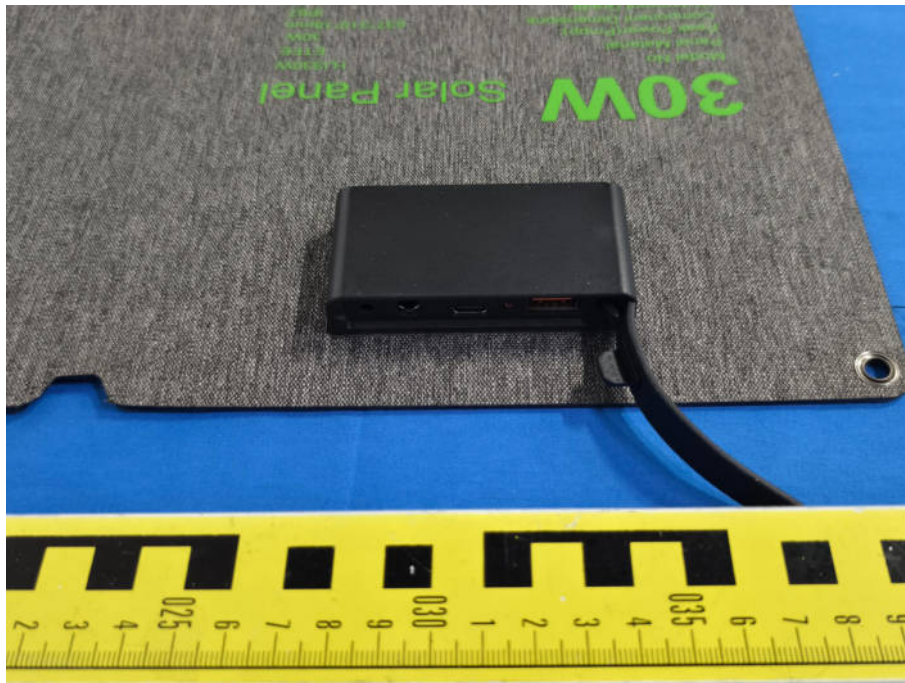


Appearance photograph of EUT



Sample photo

Appearance photograph of EUT

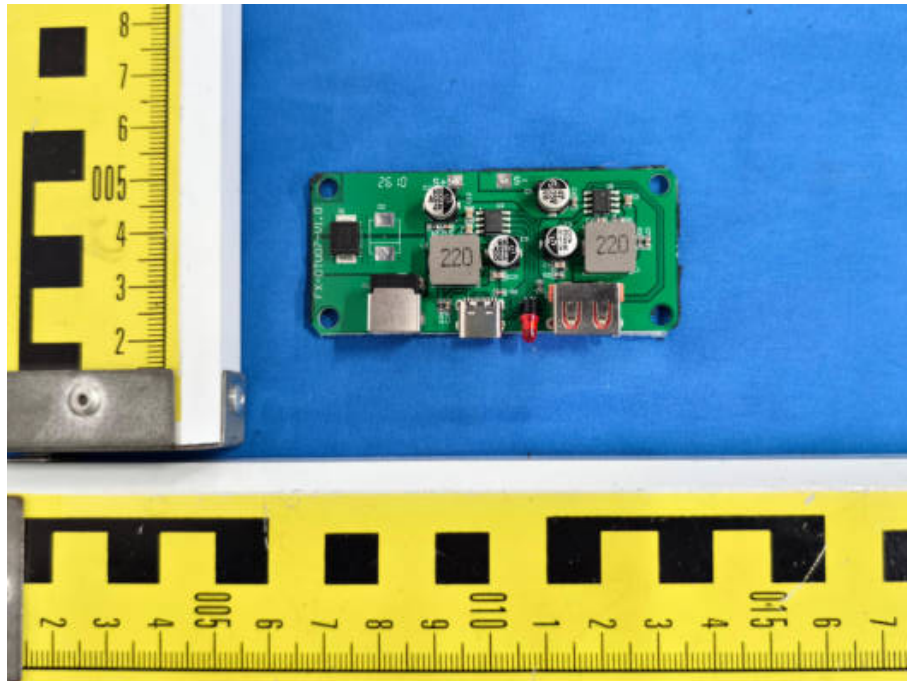


Appearance photograph of EUT

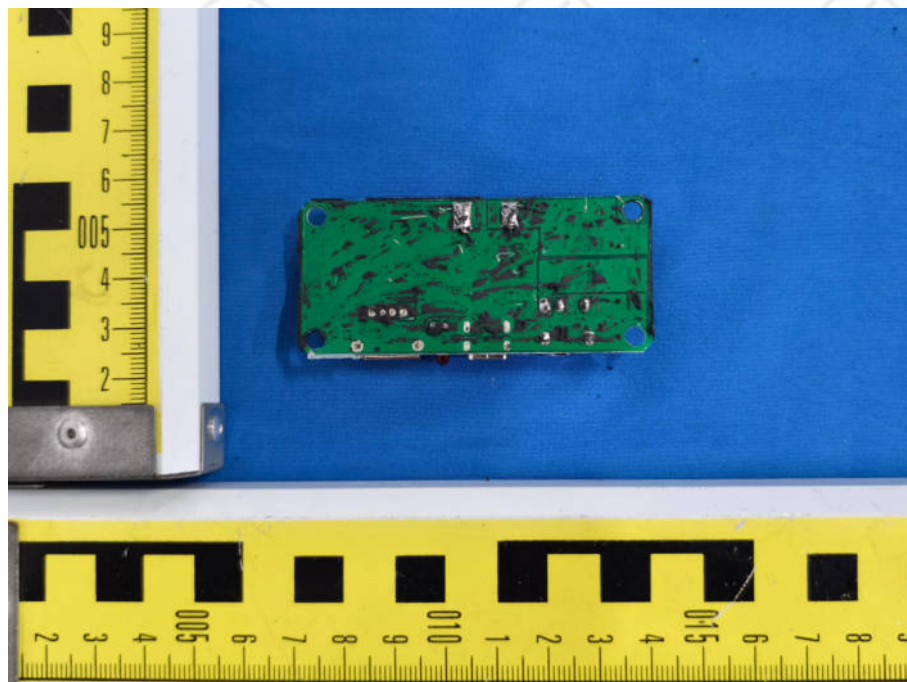


Sample photo

Appearance photograph of EUT



Appearance photograph of EUT



List of apparatus

No.	Name	Model	Calibration Valid Date	USE(✓)
1	ICP-OES	VISTA-MPX	2026/12/28	✓
2	GC-MS	5975i	2026/12/16	✓
3	UV-Vis	Lambda 25	2026/12/16	✓
4	XRF	EDX3000B	2026/12/22	✓

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

Statement:

- 1.The test report is considered invalidated without approval signature.
- 2.The result(s) shown in this report refer only to the sample(s) tested.
- 3.Without written approval of SIT, this report can't be reproduced except in full.

The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which SIT hasn't verified.