

ROHS TEST REPORT

For

FIBERLAND TECHNOLOGY CO., LTD

Product Name:	FIBER OPTICAL TRANSCEIVER
Brand Name:	FIBERLAND
Model Number:	See model list of third page
Prepared For:	FIBERLAND TECHNOLOGY CO., LTD
Address:	FLOOR 4, BLOCK H6, SHENYE ZILINSHAN, LONG GANG DISTRICT, SHENZHEN, P.R.CHINA
Prepared By:	Shenzhen Youbest Testing Technology Co., Ltd.
Address:	3/F, Building 4, Zhenbao Industrial Park, Industrial West Road, Longhua District, Shenzhen, Guangdong, P.R. China
Report No.:	YB181204132WB-ROHS-B1

TEST RESULT CERTIFICATION

Applicant : FIBERLAND TECHNOLOGY CO., LTD
Address : FLOOR 4, BLOCK H6, SHENYE ZILINSHAN, LONG GANG DISTRICT, SHENZHEN, P.R.CHINA
Manufacturer : FIBERLAND TECHNOLOGY CO., LTD
Address : FLOOR 4, BLOCK H6, SHENYE ZILINSHAN, LONG GANG DISTRICT, SHENZHEN, P.R.CHINA
EUT : FIBER OPTICAL TRANSCEIVER
Brand Name: : FIBERLAND
Model Number : See model list of third page
Date of Receipt: : December 03, 2018
Test Date : December 03-06, 2018
Date of Report : December 07, 2018
Test Standard : IEC62321-1: 2013
Comment : Based on the performed tests on submitted samples, the results of Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863.

Prepared by(Engineer): Jade Tang

Reviewer(Supervisor): Jack Li

Approved(Manager): Eric Sang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen Youbest Testing Technology Co., Ltd.

Model list

FLD-SG-SMS-20A/B

FLD-S155-XXX-XX

FLD-SG-XXX-XX

FLD-S2.5G-XXX-XX

FLD-S3G-XXX-XX

FLD-4G-XXX-XX

FLD-GC-XX

FLD-2.5GC-XX

FLD-3GC-XX

FLD-3GC-XX

FLD-GD-XX-XX

FLD-2.5GD-XX-XX

FLD-GCSFP-XX

FLD-SFP+SR/LR/ER/ZR/ZR+

FLD-BIDI-SFP+LR/ER/ZR/ZR+

FLD-CWDM-SFP+XX

FLD-DWDM-SFP+XX

FLD-XFP-SR/LR/ER/ZR/ZR+

FLD-BIDI-XFP-LR/ER/ZR/ZR+

FLD-CWDM-XFP-XX

FLD-DWDM-XFP-XX

FLD-X2-SR/LR/ER/ZR

FLD-XENPAK-SR/LR/ER/ZR

FLD-10GD-S2S-XX

FLD-40GD-QS2QS-XX

FLD-40GD-QS2FS-XX

FLD-40GD-QS2FXF-XX

FLD-25GD-QS2QS-XX

FLD-100GD-QS2QS-XX

FLD-100GD-QS2FS-XX

FLD-10GA-S2S-XX

FLD-40GA-QS2QS-XX

FLD-100G-QS2QS-XX

FLD-QSFP+SR4,IR4/LR4/BIDI/ER4

FLD-CFP-SR/LR/ER

FLD-CFP2-SR/LR/ER

FLD-CFP4-SR/LR/ER

FLD-QSFP28-SR4/LR4/ER4/PSM4/IR4

FLD-S155-T

FLD-SG-T

FLD-SASG-T

FLD-10G-T

FLD-GPON-OLT-XX

Test Method:

Tested Item(s)	Test Method	Measured Equipment(s)	MDL Unit (mg/kg)
Lead(Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2
Cadmium(Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2
Mercury(Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES	2
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0	UV-Vis	8
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5
Phthalates	IEC 62321-8:2017 Ed.1.0	GC-MS	50

Test Items	Test Method/ Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
Lead(Pb)	REFER TO	2	N.D.	1000
Cadmium(Cd)	IEC 62321-5:2013. ICP-AES/AAS	2	N.D.	100
Mercury(Hg)	REFER TO IEC 62321-4:2013. ICP-AES	2	N.D.	1000
Hexavalent Chromium(Cr(VI)) by Alkaline extraction	REFER TO IEC 62321:2008. UV-VIS	2	N.D.	1000
Mono-bromobiphenyl	REFER TO IEC 62321-6:2015. GC-MS	5	N.D.	---
Di-bromobiphenyl		5	N.D.	
Tri-bromobiphenyl		5	N.D.	
Tetra-bromobiphenyl		5	N.D.	
Penta-bromobiphenyl		5	N.D.	

Test Items	Test Method/ Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
Hexa-bromobiphenyl		5	N.D.	
Hepta-bromobiphenyl		5	N.D.	
Octa-bromobiphenyl		5	N.D.	
Nona-bromobiphenyl		5	N.D.	
Deca-bromobiphenyl		5	N.D.	
Polybrominated Biphenyls(PBBs)		---	N.D.	1000
Mono-bromodiphenyl ether	REFER TO IEC 62321-6:2015. GC-MS	5	N.D.	--
Di-bromodiphenyl ether		5	N.D.	
Tri-bromodiphenyl ether		5	N.D.	
Tetra-bromodiphenyl ether		5	N.D.	
Penta-bromodiphenyl ether		5	N.D.	
Hexa-bromodiphenyl ether		5	N.D.	
Hepta-bromodiphenyl ether		5	N.D.	
Octa-bromodiphenyl ether		5	N.D.	
Nona-bromodiphenyl ether		5	N.D.	
Deca-bromodiphenyl ether		5	N.D.	
Polybrominated Diphenyl Ethers(PBDEs)		---	N.D.	1000
Dibutyl phthalate (DBP)	REFER TO BS EN 14372:2004, GC-MS	30	N.D.	1000
Butylbenzyl phthalate (BBP)		30	N.D.	1000
Di-(2-ethylhexyl) Phthalate (DEHP)		30	N.D.	1000
Di-iso-butyl phthalate (DIBP)		30	N.D.	1000

Tested Sample/Part Description:

1. White mark plate
2. black Rubber
3. PCB board
4. capacitance
5. resistance
6. Metal enclosure
7. IC

Test Results

Test Items	Result Unit (mg/kg)							Acceptable Limit Unit (mg/kg)
	1	2	3	4	5	6	7	
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Biphenyls(PBBs)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Polybrominated Diphenyl Ethers(PBDEs)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Monobromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Dibromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Tribromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Octabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--
Decabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	--

Test Items	Result Unit (mg/kg)							Acceptable Limit Unit (mg/kg)
	1	2	3	4	5	6	7	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000

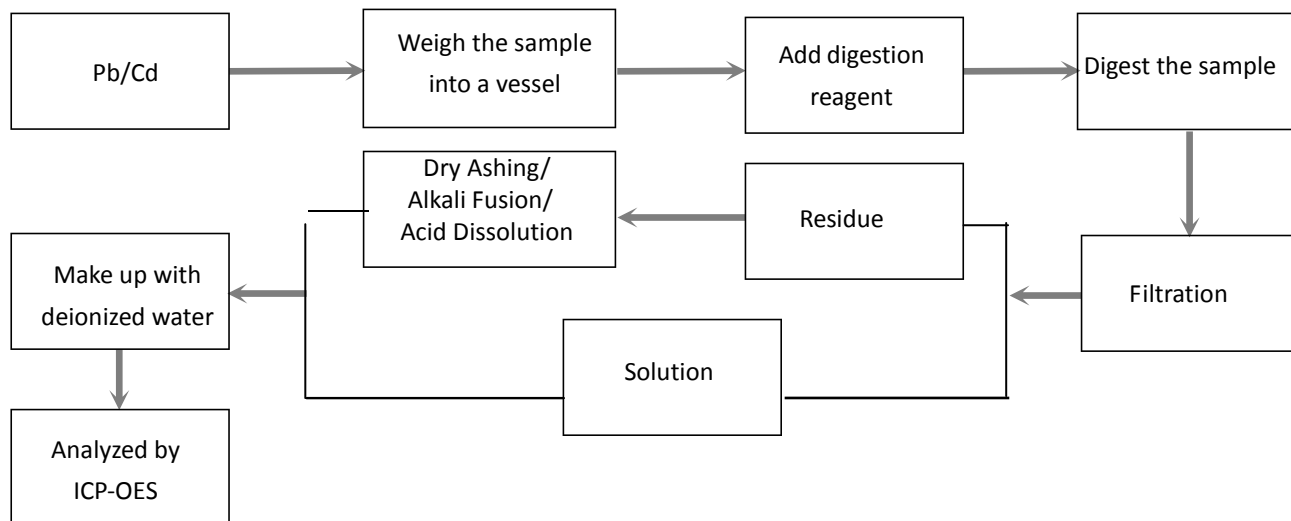
NOTE:

- (1) mg/kg = ppm=parts per million
- (2) N.D. = not detected (<MDL)
- (3) MDL=Method Detection Limit
- (4) “—”=Not regulated

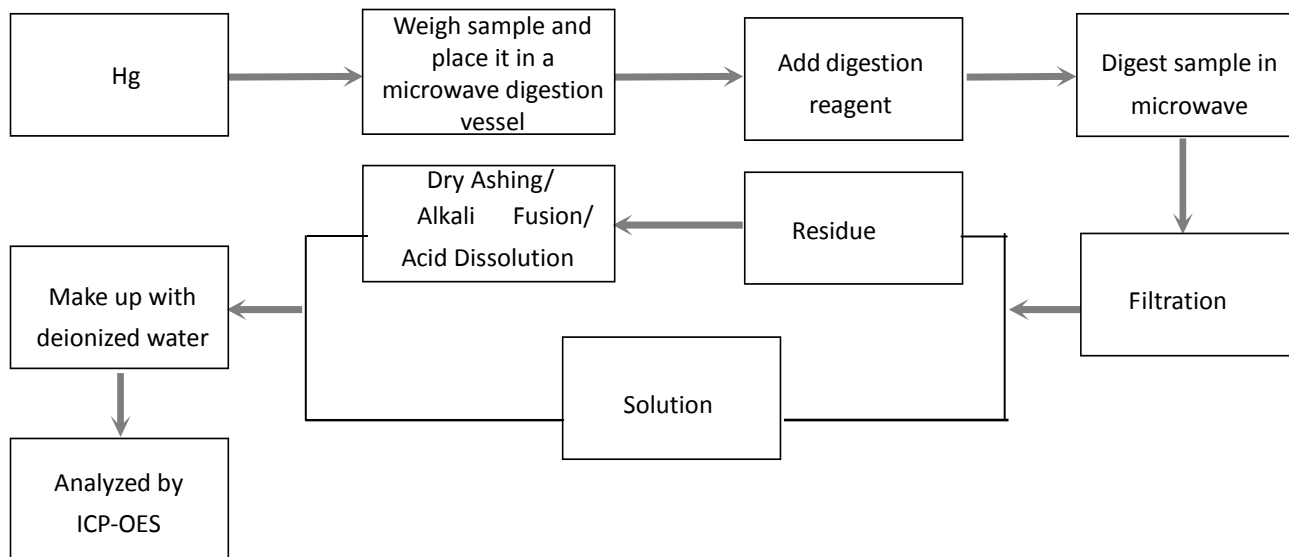
Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

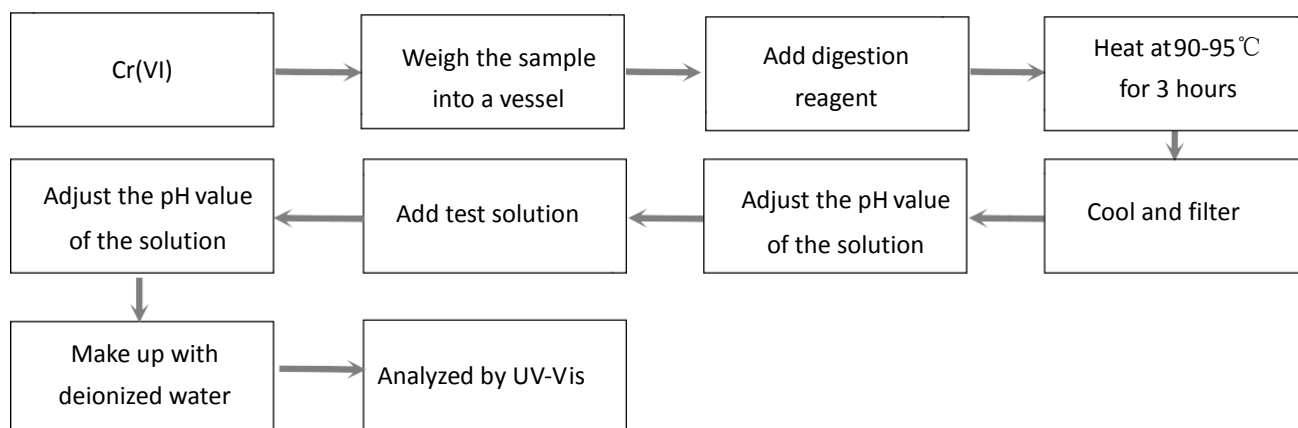
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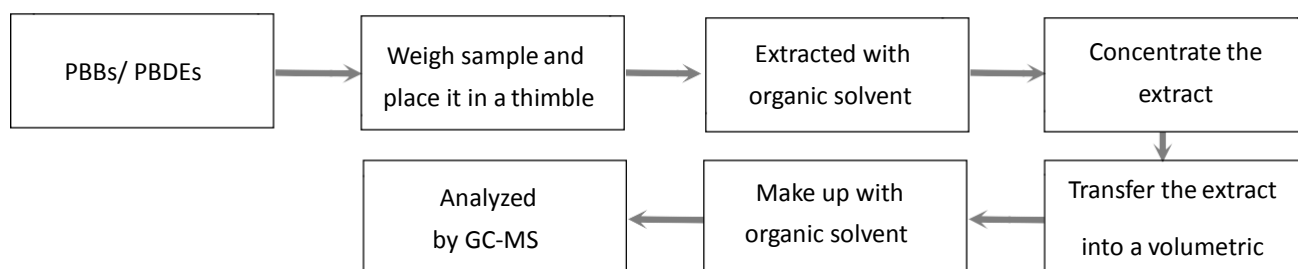
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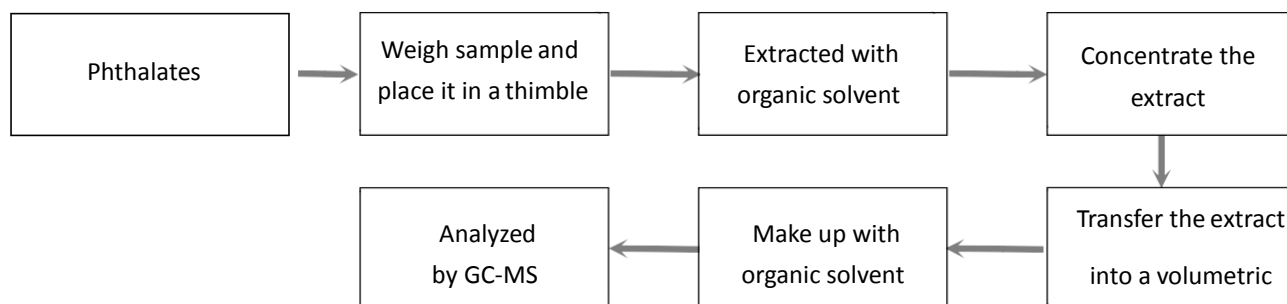
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◆ IEC 62321-6:2015 Ed.1.0

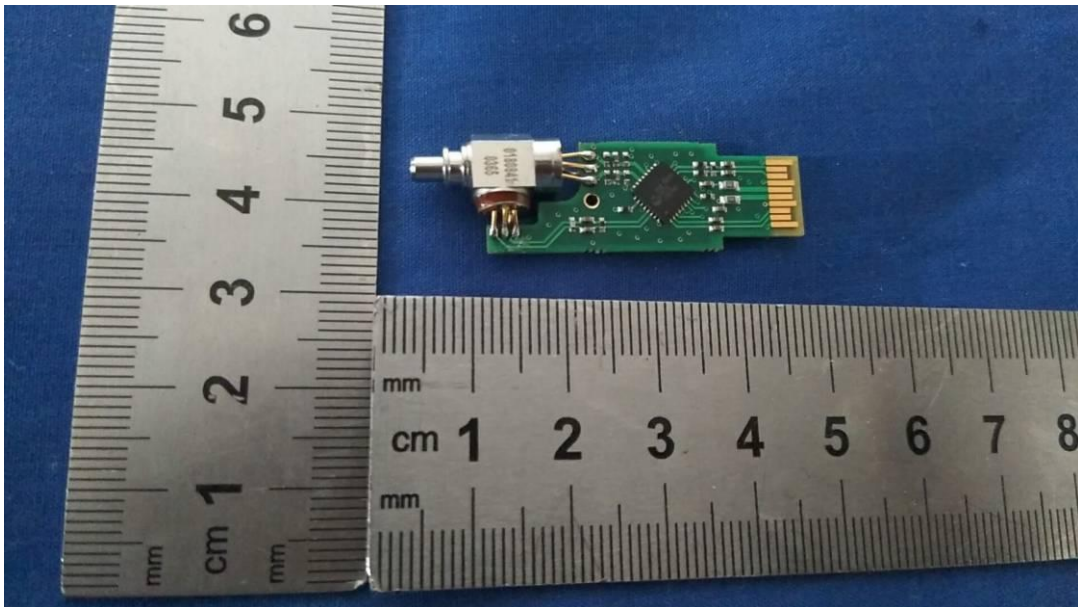
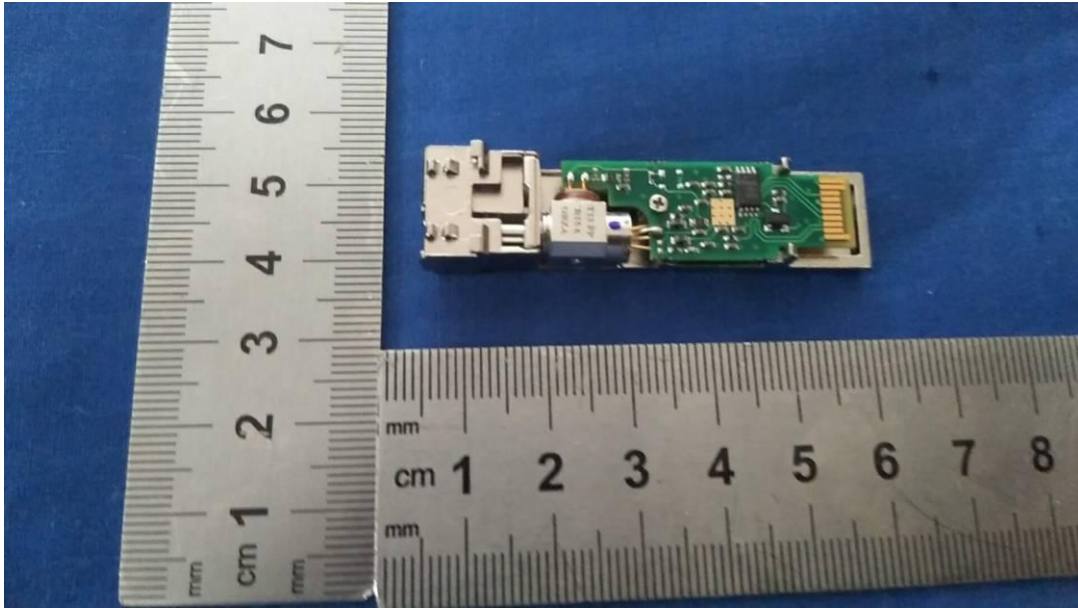


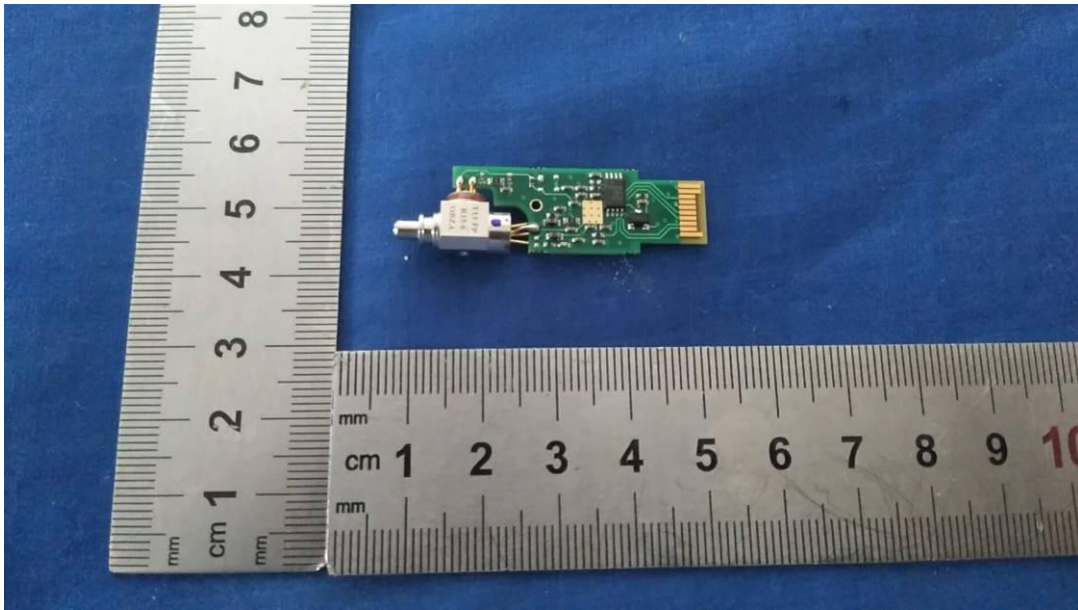
◆ IEC 62321-8:2017 Ed.1.0



EUT PHOTOGRAPHS







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