

Prepared for:

EDA Technology Shanghai Co.,Ltd

Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Product Name: CM4 Industrial

Model No.: ED-CM4IND, ED-CM4INDP

Trade Mark:

Date of Test: From June 25, 2024 to July 16, 2024

Date of Report: July 16, 2024

Report Number: HK24062510046-1RR

Prepared by:

Shenzhen HUAK Testing Technology Co., LTD.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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Applicant:	EDA Tech	inology Shanghai Co.,Ltd		
Address:	_	29, Shengchuang Enterpr istrict, Shanghai, PRC	rise Park, No.166	l Jialuo Road,
Manufacturer:	EDA Tech	nology Shanghai Co.,Ltd		
Address:	TIME -	29, Shengchuang Enterpr istrict, Shanghai, PRC	rise Park, No.166	1 Jialuo Road,
The following sample wa	s submitted and	l identified by/on behalf o	f the client as:	
Product Name:	CM4 Indu	strial		
Model No.:	ED-CM4IN	ND, ED-CM4INDP		
Trade Mark:				
Sample Receiving Date:	June 25, 2	2024		
Testing Period:	From June	e 25, 2024 to July 16, 2024	HUAN	
Results:	Please ref	fer to next page(s).		
Summary of Test Results	**************************************	***********	*******	**********
Test Requested:	According to cus	stomer's requirements, Split PBBs & PBDEs, DBP, BBP,		
Conclusion:	the limits as set I	erformed tests by submitted by Directive (EU) 2015/863 HS 2.0) Annex II.	d sample, the test - Amendment of I	results comply with EU RoHS Directive
**************************************	******************** f HUAK	**************************************	*******	*******
W.	Parent J			
ON TESTING - MAN TESTIN	ason Muu			
Approved by:	h Managar	(A)		
La	b Manager			



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Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

CPSC Certification Number is 1710.

Test Method:

- 1. Sample prepared with reference to IEC 62321-1:2013 / IEC 62321-2:2021
- 2. Sample Screening testing with reference to IEC 62321-3-1:2013
- 3. Wet Chemical Test Method
 - a. Determination of Lead, Cadmium by ICP-OES with reference to IEC 62321-5:2013
 - b. Determination of Mercury by ICP-OES with reference to IEC 62321-4:2013+AMD1:2017
 - c. Determination of Hexavalent Chromium in colourless and coloured corrosion-protected coatings on metals by UV-VIS method reference to IEC 62321-7-1:2015
 - d. Determination of Hexavalent Chromium in polymers and electronics by UV-Vis Method with reference to IEC 62321-7-2:2017.
 - e. Determination of PBBs and PBDEs by GC-MS with reference to IEC 62321-6:2015
 - f. Determination of DBP, BBP, DEHP and DIBP by GC-MS with reference to IEC 62321-8:2017



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Test Results:

Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	W TESTING	Pb	BL	HUAK TEC	Comply
	(C) HUANG	Cd	BL		Comply
		Hg	BL	LAKTESTING	Comply
	TING TESTING	Cr(VI)	BL O	HO	Comply
HUAK'I	Black coating	PBBs	BL	HUAK TO	Comply
	Black coaling	PBDEs	BL		Comply
	5 auG	DBP		onG	NA
	WAKTESTIL	BBP	WILLY TESTIL	WAK TESTING	NA
	(a)	DEHP	(iii)	<u> </u>	NA
	.6	DIBP	-1G	N TESTING	NA
	- WAK TESTING	Pb	MX TESTING BL	O HOM	Comply
		Cd	BL		Comply
		Hg	BL	MUAKTES!	Comply
	TING - JUAN TESTING	Cr(VI)	BL	OK TESTING	Comply
2	Silver metal	PBBs	<u></u>	W. Hr.	NA
2	Silver metal	PBDEs			NA
	5 TESTING	DBP	-ESTING	TESTING	NA
	MAKIL	BBP	HUAK	W HUAK I	NA
		DEHP		_m G	NA
	STING	DIBP	-STNG-	HUAKTESTI	NA
	HUAKTE	Pb	BL		Comply
		Cd	BL	TESTING	Comply
	THE TESTING	Hg	BL 🕙	HUAR	Comply
	HUAKTE	Cr(VI)	BL	HUAKTEST	Comply
3	Black rubber	PBBs	BL		Comply
3		PBDEs	BL		Comply
	3 HARTESTING	DBP	NATESTING	N.D.	Comply
	(a) HO	BBP	(1) HO	N.D.	Comply
	~	DEHP		N.D.	Comply
	V TESTING	DIBP	X TESTING	N.D.	Comply

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
TESTING		Pb	BL	W TESTING	Comply
		(Cd	NETESTING BL	MUAN	Comply
5		Hg	BL	- NG	Comply
		Cr(VI)	BL	HUAKTESTII	Comply
4	White coating	PBBs (15th)	JAKTESTING (III)	XTESTING	NA
4	(Silver metal)	PBDEs	M HD.	MI HUAN	NA
		DBP			NA
STIN		BBP		STNG	NA
HUAKTED		DEHP	HUAKTE	WAK TES	NA
J.G		DIBP			NA
TESTI.	TING	Pb	BL	- WAKTESTIN	Comply
		Cd	BL	©	Comply
		Hg	BL	TESTING	Comply
		Cr(VI)	BL ®	HIAK .	Comply
A LUAK TES	Black coating	PBBs	HUAKTES.	HUAKTESTIL	NA
5	(silver metal screws)	PBDEs		<u></u>	NA
	,	DBP			NA
N TESTIN		BBP	AKTESTING		NA
My Marie		DEHP	O HUM	White	NA
ESTING		DIBP		-SmyG	NA
	K TESTING	Pb	TESTING BL	HUAK	Comply
		Cd	BL		Comply
		Hg	BL	MAKTESTING	Comply
4		Cr(VI)	BL O	TSTM	Comply
HUAK	Black coating	PBBs	HUA.	HUAK	NA
6	(silver metal screws)	PBDEs			NA
-715	S TING	DBP	_{TIN} G	TING	NA
WAKTESIN		BBP	HUAKTEST	PLANTES!	NA
		DEHP		<u></u>	NA
ESTING		DIBP		LOK-TESTING	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	6	Pb	BL	V TESTING	Comply
	"IAK TESTING	(Cd	BL	MINA	Comply
	1	Hg 💮 💮	BL	(Comply
		Cr(VI)	BL	HUAK TESTIN	Comply
ZAK TE	Digals plantin	PBBs 75 TMG	BL	XTESTAY	Comply
M HOM	Black plastic	PBDEs	BL	MI HUAN	Comply
		DBP		N.D.	Comply
	3 STING	BBP		N.D.	Comply
	HUAKTEL	DEHP	HUAKTE	N.D.	Comply
		DIBP		N.D.	Comply
TEST	TING	Pb	BL	WAY TEST	Comply
	HUAKTES	Cd	BL	——————————————————————————————————————	Comply
		Hg	BL	TESTING	Comply
	TING O	Cr(VI)	BL 🕬 🧥	HIAK I	Comply
WIAK TE	Cibranatud	PBBs	HUAKTES	HUAKTESTI	NA
8	Silver stud	PBDEs		<u></u>	NA
		DBP			NA
	S VESTING	BBP	A TESTING	K TESTING	NA ********
	MINN.	DEHP	MHUAN	Manager Manage	NA
		DIBP		-SING	NA
	4 TESTING	Pb	BL	HUAK	Comply
	O HUAN	Cd	BL		Comply
		Hg	BL	LIAK TESTING	Comply
	TING TESTING	Cr(VI)	IN S	N.D.	Comply
HUAKIL	Black coating	PBBs	MHUAN	HUAK	NA
9	(Silver metal)	PBDEs			NA
	Sim_	DBP	_{m/G}	ans	NA
	HUAKTESTA	BBP	HUAKTESTI	THAT TESTING	NA
	(ii)	DEHP		<u> </u>	NA
	e)G	DIBP		NX SESTING	NA

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REPORT	Г No.: HK2406251004(6-1RR Date	: July 16, 2024		Page 7 of 48
Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
		Pb	$OL^{\scriptsize{\textcircled{1}}}$	1.3*10 ⁴	Comply
	LAKTESTING	(Cd	NETESTING BL	MUAN	Comply
	O HO	Hg	BL	we	Comply
		Cr(VI)	BL	HUAK TESTIN	Comply
10	Coldon motal	PBBs	TAKTESTING (III)	VIESTIN	NA
10	Golden metal	PBDEs	M HD.	MINIAN TO AND	NA
		DBP			NA
	3	BBP		STING	NA
	HUAKTES	DEHP	HUAKTE	MAKTER	NA
		DIBP			NA
ESTI	TING	Pb	BL	WAK TEST	Comply
	HUAKTES	Cd	BL	<u></u>	Comply
		Hg	BL	TESTING	Comply
	TING O	Cr(VI)	BL 🧐 🦱	HIAK I	Comply
MAKTE	THE HUAKTES!	PBBs	BL	WAKTESTIN	Comply
11	Black wire cover	PBDEs	BL	<u></u>	Comply
		DBP		N.D.	Comply
	S OK TESTING	BBP	AKTESTING	N.D. TESTING	Comply
	(HOAR	DEHP	MINA	N.D.	Comply
		DIBP		N.D.	Comply
	« TESTING	Pb	BL	HUAK	Comply
	O HUAN	Cd	BL		Comply
		HJAK TESTING Hg	BL	LAK TESTING	Comply
	TING TESTING	Cr(VI)	BL ®	TESTIN	Comply
HUAKTE	PRODUCT.	PBBs	HUPA.	HUAK	NA
12	Silver screw	PBDEs			NA
	5 mig	DBP	_{my} G		NA
	HUAKTEST	BBP	HUAK TEST	PLAKTES !!	NA
	(a)	DEHP		<u> </u>	NA
	.vG	DIBP		AK TESTING	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS		
		Pb	BL	TESTING	Comply		
	LOK TESTING	Cd	NX TESTING BL	MUAN	Comply		
	O HO.	Hg	BL	- NG	Comply		
		Cr(VI)	BL	WAKTESTING	Comply		
40 TE	Disability Labor	PBBs	BL	V TESTIN	Comply		
13	Black, blue label	PBDEs	BL	AUAN HUAN	Comply		
		DBP			NA		
	3 - TING	BBP		CTNG	NA		
	HUANTES	DEHP	HUAK TES	MAKTES	NA		
		DIBP			NA		
TESTINA	TING	Pb	BL	WAX TEST	Comply		
	HUAK TES.	Cd	BL	<u> </u>	Comply		
		Hg	BL	TESTING	Comply		
	THE THE	Cr(VI)	BL 🚳	HIAK .	Comply		
WAK TE	OH HUMPTES I	PBBs	MAKTES.		NA		
14	Silver foot	PBDEs		<u></u>	NA		
		DBP			NA		
	3 VESTING	BBP	N. TESTING	KTESTING	NA ******		
	White the state of	DEHP	MINITED TO THE PARTY OF THE PAR	White	NA		
		DIBP		-GTNG	NA		
	V TESTING	Pb	TESTING BL	HUAK	Comply		
	O HUAN	Cd	BL		Comply		
		Hg	BL	MAKTESTING	Comply		
	TING TESTING	Cr(VI)	BL	HO	Comply		
M HUAK'IL	NAME IS THE COLOR	PBBs	BL BL	HUAKTA	Comply		
15	White plastic frame	PBDEs	BL		Comply		
	SS	DBP	_{myG}	N.D.	Comply		
	WAKTESTING	BBP	HUAKTESTI	N.D.	Comply		
	(1)	DEHP		N.D.	Comply		
	AG.	DIBP	- NG	N.D.	Comply		

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
		Pb	BL	W TESTING	Comply
	LAKTESTING	(Cd	BL	MINAR	Comply
	O Wash	Hg	BL	- NG	Comply
		Cr(VI)	BL	HUAK TESTIN	Comply
16	Croop plantic	PBBs	BL	XTESTIN	Comply
10	Green plastic	PBDEs	BL	C HUAN	Comply
		DBP		N.D.	Comply
	3 STING	BBP	STING	N.D.	Comply
	HUAK TEE	DEHP	HUAKTE	N.D.	Comply
		DIBP		N.D.	Comply
TEST	-cTNG	Pb	BL	WAK TEST	Comply
	HUAKTES	Cd	BL	<u></u>	Comply
	9	Hg	BL	TESTING	Comply
	THE STING	Cr(VI)	BL	MAK	Comply
17	Croop plactic	PBBs	BL	HUAKTEST	Comply
17	Green plastic	PBDEs	BL	<u></u>	Comply
		DBP		N.D.	Comply
	AK TESTING	BBP	OFTESTING	N.D.	Comply
	(I) HOW	DEHP	O HO	N.D.	Comply
TESTING.		DIBP		N.D.	Comply
	AK TESTING	Pb	BL	HUAK	Comply
	(HOW	Cd	BL		Comply
		Hg	BL	WAK TESTING	Comply
	TING OKTESTING	Cr(VI)	BL	TESTIN	Comply
18	Grov plactic	PBBs	BL BL	HUAK.	Comply
10	Grey plastic	PBDEs	BL		Comply
	3	DBP	TING		NA
	HUAKTES	BBP	HUAK TES.	THAT TEST	NA
		DEHP		<u></u>	NA
	an G	DIBP	- 100 -	LAX TESTING	NA

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Part No. Part Name Restricted Substances Result of Chemical Testing (2) (mg/kg) Pb BL Cd BL Hg Result of Chemical Testing (2) (mg/kg)	Page 10 of 48 Conclusion on RoHS Comply Comply Comply Comply Comply
Cd Cd BL Only	Comply Comply
1177	Comply
Harris Ha	
Hg BL	Comply
Cr(VI) BL	J - 111-1
10 Reign plactic frame PBBs BL	Comply
19 Beige plastic frame PBDEs BL	Comply
DBP	NA
BBP BBP THE	NA
DEHP HIME	NA
DIBP	NA
Pb BL	Comply
Cd BL	Comply
Hg BL	Comply
Cr(VI) BL	Comply
20 Gold metal pin PBBs	NA
20 Gold metal pin PBDEs	NA
DBP	NA
BBP BBP TIET	NA STING
DEHP 0	NA
DIBP	NA
Pb TESTING Pb TESTIBL NUMBER	Comply
Cd BL	Comply
Hg BL	Comply
Cr(VI) IN N.D.	Comply
PRRe PRIME	NA
21 Silver metal PBDEs	NA
DBP	NA NA
BBP BINALTES	NA
DEHP	NA
DIBP	NA



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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
		Pb	BL	W TESTING	Comply
	LAK TESTING	(Cd	BL	MUAN	Comply
	O HO	Hg	BL	-11G	Comply
		Cr(VI)	BL	HUAK TEST	Comply
22	Blue soft glue	PBBs 75TMG	BL	WIESTIN	Comply
22	blue soit glue	PBDEs	BL	E HUAN	Comply
		DBP			NA
	3 STING	BBP	STING	STING	NA
	HUAK TEL	DEHP	HUAKTE	MIAKTE	NA
		DIBP			NA
ESI	TING	Pb	BL	WAK TEST	Comply
	HUAKTES	Cd	BL	<u></u>	Comply
	9	Hg	BL	TESTING	Comply
	TING TING	Cr(VI)	BL O	MAK .	Comply
23	Cilvanaanau	PBBs	HUAKTES	HUAKTESTIN	NA
23	Silver screw	PBDEs			NA
		DBP			NA
	3 AKTESTING	BBP	AN TESTING	AKTESTING	NA
	(C) HOW	DEHP	O HUM	Mary Home	NA
		DIBP		-ESTING	NA
	AK TESTING	Pb	BL	HUAK	Comply
	O HILIAN	Cd	BL		Comply
		Hg	BL	WAK TESTING	Comply
	STING ON TESTING	Cr(VI)	BL	TESTIN	Comply
24		PBBs	BL BL	HUAR.	Comply
24	Black plastic frame	PBDEs	BL		Comply
	3 TING	DBP		N.D.	Comply
	NAME TO THE	BBP	HUAKTES	N.D.	Comply
		DEHP		N.D.	Comply
		DIBP		N.D.	Comply

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	.6	Pb	BL	N TESTING	Comply
	" IAK TESTING	Cd	BL	MUAN	Comply
	O HO	Hg	BL	- NO	Comply
		Cr(VI)	BL	HUAK TESTIN	Comply
OF CT	Digal plactic frame	PBBs 75 TMG	BL	WIESTIN	Comply
25	Black plastic frame	PBDEs	BL	MINIA PROPERTY OF THE PROPERTY	Comply
		DBP		N.D.	Comply
	3 CTING	BBP	STING	N.D.	Comply
	HUAKTES	DEHP	HUAKTES	N.D.	Comply
		DIBP		N.D.	Comply
2111.	TING	Pb	$OL^{\scriptscriptstyle{\textcircled{\scriptsize{1}}}}$	1.1*10 ⁴	Comply
	HUAKTES	Cd	BL	©	Comply
		Hg	BL	TESTING_	Comply
	ING TIME	Cr(VI)	BL 🚳	HIAK I	Comply
26	Cibrar matal halta	PBBs	HUAK TES	HUAKTESTIL	NA
20	Silver metal bolts	PBDEs		<u></u>	NA
		DBP			NA
	3 AKTESTING	BBP	AK-TESTING		NA
	(C) HOLD	DEHP	O HUND	White	NA
		DIBP		-STING	NA
	W TESTING	Pb	TESTING BL	HUAK	Comply
	MINDE WALL	Cd	BL		Comply
		HJAK TESTING Hg	BL	MAKTESTING	Comply
	TING WIESTING	Cr(VI)	IN OF STREET	N.D.	Comply
HUAK	Cil	PBBs	M HUAN-	HUAK.	NA
27	Silver metal	PBDEs			NA
	5 m/G	DBP	_(IN) G		NA
	HUAKTEST	BBP	HUAK TEST	HAN TEST	NA
	(3)	DEHP			NA
	e)G	DIBP		AX TESTING	NA



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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	
TESTING		Pb	$OL^{\scriptscriptstyle{\textcircled{\scriptsize{1}}}}$	1.2*10 ⁴	Comply	
	LAK TESTING	Cd	NETESTING BL	MUAN	Comply	
G	1 months	Hg	BL	- NG	Comply	
		Cr(VI)	BL	HUAK TESTI	Comply	
28	Silver metal bolts	PBBs	HAKTESTING (III)	OK TESTIN	NA	
20	Silver metal boils	PBDEs		E HUAN	NA	
		DBP			NA	
STIN	3 STING	BBP	STING	STING	NA	
HUAKTEL	HUAK TEE	DEHP	HUAKTE	MIAKTER	NA	
n/G		DIBP			NA	
TEST	TING	Pb	BL	WAK TEST	Comply	
	HUAKTES	Cd	BL	<u></u>	Comply	
3		Hg	BL	TESTING_	Comply	
	ING TING	Cr(VI)	BL ®	HIAK .	Comply	
29	Green PCB board	PBBs	IN IN	N.D.	Comply	
29	Green PCB board	PBDEs	IN	N.D.	Comply	
		DBP		N.D.	Comply	
AK TESTIN	S AKTESTING	BBP	AN TESTING	N.D.	Comply	
HOW	(C) HOW	DEHP	O HUM	N.D.	Comply	
ESTING		DIBP		N.D.	Comply	
	N TESTING	Pb	WITESTING BL	HUAK	Comply	
a.	O HUM	Cd	BL		Comply	
		HIJAK TESTIME Hg	BL	WAK TESTING	Comply	
TE	STING OKTESTING	Cr(VI)	BL O	TESTIN	Comply	
30	Silver metal solder	PBBs	HUM	ALL AIL	NA	
30	joints	PBDEs			NA	
711	3 -TING	DBP		-TING	NA	
HUAKTESIN	HUAKTEST	BBP	HUAKTEST	PLAK TES I.	NA	
	(9)	DEHP		<u></u>	NA	
TESTING	Din	DIBP	- NO-	LAKTESTING	NA	

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
TESTING		Pb	BL	V TE-TING	Comply
	LAK TESTING	Cd	BL	MINAR	Comply
	O HO	Hg	BL	- NG	Comply
		Cr(VI)	IN	N.D.	Comply
24.15	City and Market 1	PBBs TESTING	JAKTESTING (III)	V TESTING	NA
31	Silver metal	PBDEs	3 HO	HUAN.	™NA
		DBP			NA
-TIN	3 TING	BBP	TING	TING	NA
WAKTES	HUAKTES	DEHP	HUAK TES	MAKTES	NA
-6		DIBP			NA
ESTRIB	TING	Pb	BL	WAY TESTING	Comply
	HUAKTES	Cd	BL		Comply
		Hg	BL	ESTING	Comply
	NG TING M	Cr(VI)	BL 🌑	HUAKTLE	Comply
WAR TE	STILL HUAKTES!	PBBs	HUAKTES.		NA
32	Gold metal pin	PBDEs		<u></u>	NA
		DBP			NA
" TESTIN	3 V TESTING	BBP	TESTING.	TESTING	NA restrict
UAI	MINIA .	DEHP	HUAN	MANAGE THURSDAY	NA
STING		DIBP			NA
	TESTING	Pb	TESTING BL	HUAKTE	Comply
	HUAN	Cd	BL		Comply
		Hg	BL	LAK TESTING	Comply
-03	TESTING (Cr(VI)	BL	ESTIM	Comply
HUAKT	DI MIAN	PBBs	BL BL	HUAKTA	Comply
33 Bla	Black plastic base	PBDEs	BL		Comply
-103	Som S	DBP	_m G	ans	NA
UAKTESTI	HUAKTESTI	BBP	HUAK TESTI	THAN TESTING	NA
		DEHP		<u> </u>	NA
ESTING	D _C	DIBP		NY TESTING	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
TESTING		Pb	BL	w Tee TING	Comply
	JAK TESTING	(Cd	BL	MINAR	Comply
5	O HO	Hg	BL	- NG	Comply
		Cr(VI)	BL	WAKTESTIII	Comply
245	Digale plantin key	PBBs	BL	XTESTIN	Comply
34	Black plastic key	PBDEs	BL	MILAN HUAN	Comply
		DBP			NA
STIN	3	BBP		STNG	NA
AUAK TES	HUAKTES	DEHP	HUAKTE	WAK TES	NA
a)G		DIBP			NA
ESTI	TING	Pb	BL	- WAKTESTIN	Comply
	HUAKTES	Cd	BL	•	Comply
ţ.		Hg	BL	TESTING	Comply
	TING O	Cr(VI)	BL O	Max .	Comply
NIAK TE	Cilven meetal	PBBs	HUAK TES	HUAKTESTIL	NA
35	Silver metal	PBDEs		<u></u>	NA
		DBP			NA
AK TESTIN	3 AKTESTING	BBP	AKTESTING		NA STORE
II) Po	O HUAN	DEHP	MIND	White	NA
ESTING		DIBP		-5m/G	NA
	X TESTING	Pb	BL	HUAK	Comply
	O HUAN	Cd	BL		Comply
		Hg	BL	WAKTESTING	Comply
	TING TESTING	Cr(VI)	IN W	N.D.	Comply
HUAK	Silver metal	PBBs	MINN	HUAK	NA
36	shrapnel	PBDEs			NA
-10	3 mis	DBP	_{my} G		NA
WAKTESTI	HUAKTESTA	BBP	HUAKTESTI	THAT TEST !!	NA
		DEHP		<u> </u>	NA
ESTING	-10	DIBP		NATESTING	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	
TESTING		Pb	BL	W TESTING	Comply	
	JAK TESTING	(Cd	BL	MUAN	Comply	
3	O House	Hg	BL	- NO	Comply	
		Cr(VI)	BL	HUAK TESTIN	Comply	
37	Cilver metal pin	PBBs	TAK TESTING	WIESTIN	NA	
3/	Silver metal pin	PBDEs	3 HO.	M HUAN	NA	
		DBP			NA	
STIN	3 STING	BBP	STING	STING	NA	
HUAKTEL	HUAKTEL	DEHP	HUAKTE	MIAKTER	NA	
a)G		DIBP			NA	
ESI	TING	Pb	BL	WAK TEST	Comply	
	HUAKTES	Cd	BL	<u></u>	Comply	
9		Hg	BL	TESTING_	Comply	
	TING O	Cr(VI)	BL O	Mak .	Comply	
38	Diagle allocation become	PBBs	BL	HUAKTESTI	Comply	
38	Black plastic base	PBDEs	BL	<u></u>	Comply	
		DBP			NA	
AK TESTIN	S AKTESTING	BBP	AN TESTING	- AKTESTING	NA	
HOM	O HOM	DEHP	O HUND	White	NA	
ESTING		DIBP		-ESTING	NA	
	X TESTING	Pb	BL	HUAK	Comply	
	O HUAN	Cd	BL		Comply	
		Hg	BL	WAKTESTING	Comply	
-16	STING OF TESTING	Cr(VI)	BL ^{WG}	TESTIN	Comply	
30	Plack plactic	PBBs	BL	ALLAK .	Comply	
39	Black plastic	PBDEs	BL		Comply	
-7114	G TING	DBP		N.D.	Comply	
WAKTESIN	MAK TESTING	BBP	HUAK TEST	N.D.	Comply	
		DEHP		N.D.	Comply	
TESTING	, NG	DIBP	- THE-	N.D.	Comply	



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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	
TESTING		Pb	BL	TESTING	Comply	
	LAKTESTING	(Cd	BL	MIAN	Comply	
3	(a) HO.	Hg	BL	- NO	Comply	
		Cr(VI)	BL	WAKTESTING	Comply	
10×1	Oilean markful als aff	PBBs	LOK TESTING	V TESTIN	NA	
40	Silver metal shaft	PBDEs	M HO	AUAN HUAN	NA	
		DBP			NA	
	3 - TING	BBP		CTNG	NA	
	HUAKTES	DEHP	HUAK TES	WAK TES	NA	
		DIBP			NA	
TESTI	TING	Pb	BL	WAX TEST	Comply	
	HUAKTES.	Cd	BL	<u> </u>	Comply	
		Hg	BL	TESTING	Comply	
	THE THE	Cr(VI)	IN S	N.D.	Comply	
41	Cilves as a tal	PBBs	HUAKTES.	HUAKTESTIL	NA	
41	Silver metal	PBDEs		<u></u>	NA	
		DBP			NA	
	5 AKTESTING	BBP	AKTESTING		NA *******	
	O HOM	DEHP	O HUN-	Why.	NA	
		DIBP		-STING	NA	
	V TESTING	Pb	W TESTING	HUAK	Comply	
	(C) HUAN	Cd	BL		Comply	
		Hg	BL	WAK TESTING	Comply	
	TING WIESTING	Cr(VI)	BL ^{MG}	HO TESTING	Comply	
MAKTE 10		PBBs	MHUAAN IN	N.D.	Comply	
42	Black plastic	PBDEs	IN	N.D.	Comply	
	3 mVG	DBP	GING	N.D.	Comply	
	WAKTESTING	BBP	HUAK TEST	N.D.	Comply	
	(9)	DEHP		N.D.	Comply	
	-NG	DIBP	-242	N.D.	Comply	

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	
	.6	Pb	BL	N TESTING	Comply	
	"IAK TESTING	(Cd	BL	MINDIA	Comply	
	0,"	Hg 💮 💮	BL	mG	Comply	
		Cr(VI)	BL	HUAKTESTI	Comply	
43	Valley LED light	PBBs 75 TMG	BL	XTESTIN	Comply	
43	Yellow LED light	PBDEs	BL	MINN.	Comply	
		DBP			NA	
	STING	BBP		STING	NA	
	HUAKTEL	DEHP	HUAKTE	WAK TEL	NA	
		DIBP			NA	
TEST	TING	Pb	BL	WAK TESTIN	Comply	
	HUAKTES	Cd	BL	.	Comply	
		Hg	BL	TESTING	Comply	
	ING TING	Cr(VI)	BL O	HIAK .	Comply	
44	Cusan LED limbs	PBBs	BL	HUAKTESTIL	Comply	
44	Green LED light	PBDEs	BL	<u></u>	Comply	
		DBP			NA	
	5 AKTESTING	BBP	AKTESTING		NA	
	O HOM	DEHP	O HUM	White	NA	
		DIBP		-SING	NA	
	N TESTING	Pb	BL	HUAK	Comply	
	O HUM	Cd	BL		Comply	
		Hg	BL	"IAK TESTINE"	Comply	
	TING WESTING	Cr(VI)	BL	TESTIN	Comply	
ME HUME	Cold matel nin	PBBs	MILIAN	ATTAK.	NA	
45	Gold metal pin	PBDEs			NA	
	3 TING	DBP		-TING	NA	
	HUAKTESI	BBP	HUAK TES !	THAT TES!	NA	
	9	DEHP		<u></u>	NA	
	Dio	DIBP	- NO	LOX TESTING	NA	



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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	
TESTING	.e	Pb	BL	N TESTING	Comply	
	LAN TESTING	Cd	BL	MUAN	Comply	
	O HO	Hg	BL	-11G	Comply	
		Cr(VI)	BL	WAKTESTIN	Comply	
10 × TE	Silver metal solder	PBBs	LAKTESTING (III)	V TESTIN	NA	
46	joints	PBDEs	M HD	HUAN	NA	
		DBP			NA	
-TIN	3 TING	BBP	TING	TING	NA	
UAK TES	HUAKTES	DEHP	HUAK TES	MAKTES	NA	
ıG.		DIBP			NA	
STA	TING	Pb	BL	WAKTESTI	Comply	
	HUAKTES	Cd	BL	<u> </u>	Comply	
		Hg	BL	TESTING	Comply	
	THE THE	Cr(VI)	BL 🌕 🦱	MAK I	Comply	
47	O POD I	PBBs	IN	N.D.	Comply	
47	Green PCB board	PBDEs	IN	N.D.	Comply	
		DBP		N.D.	Comply	
W TESTIN	3 X TESTING	BBP	V TSTING	N.D.	Comply	
Nan	MINIA .	DEHP	HUAIT-	N.D.	Comply	
STING		DIBP		N.D.	Comply	
	TESTING	Pb	TESTING BL	HUAKTE	Comply	
	HUAN	Cd	BL		Comply	
		Hg	BL	LAK TESTING	Comply	
-03	THIS TESTING	Cr(VI)	BL	AC.	Comply	
HUAKTE	HUAR	PBBs	HUAR	HUAK TE	NA NA	
48	Silver metal	PBDEs			NA	
-163	3 m/G	DBP		Olm	NA	
UAKTESTIN	HUAKTESTIN	BBP	HUAK TESTIL	THAK TESTING	NA	
	0	DEHP		<u> </u>	NA	
ESTING	a)G	DIBP		V TESTING	NA	

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
TESTING		Pb	BL	V TESTING	Comply
		(Cd	BL	MILAN	Comply
		Hg	BL	- NO	Comply
		Cr(VI)	BL	HUAK TESTING	Comply
10 × TE	TIME Disable Wastin	PBBs	BL	XTESTING	Comply
49	Black plastic	PBDEs	BL	MI HUAN	Comply
		DBP		N.D.	Comply
-STIN		BBP		N.D.	Comply
UAK TES		DEHP	HUAKTES	N.D.	Comply
. G		DIBP		N.D.	Comply
ESTI	TING	Pb	BL	- WAKTESTIN	Comply
		Cd	BL	•	Comply
		Hg	BL	TESTING	Comply
		Cr(VI)	BL 🌕	MAKIL	Comply
EJAK TE	STILL HUAKTES	PBBs	HUAKTES.		NA
50	Silver metal pin	PBDEs		<u></u>	NA
		DBP			NA
AK TESTIN		BBP	AKTESTING		NA
N. W.		DEHP	HUAD	White	NA
STING		DIBP		-SING	NA
	Y TESTING	Pb	BL	HUAK	Comply
		Cd	BL		Comply
		Hg	BL	WAKTESTING	Comply
18		Cr(VI)	BL	HO	Comply
HUAK TE	Cib tan mastal	PBBs	MHUAN	HUAK	NA
51	Silver metal	PBDEs			NA
THE STATE OF THE S		DBP	_{my} G		NA
UAKTEST		BBP	HUAKTEST	PHAK TES !!	NA
		DEHP			NA
ESTING		DIBP	V2	OK-TESTING	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
TESTING	36	Pb	BL	V TESTING	Comply
	LAKTESTING	Cd	NETESTING BL	MINAR	Comply
	O HO	Hg	BL	- NG	Comply
		Cr(VI)	BL	WAKTESTIII	Comply
FOXTE	Cilvan markatal min	PBBs	JAKTESTING (III)	VIESTIN	NA
52	Silver metal pin	PBDEs	3 HO	ALL ALL	NA
		DBP			NA
-CTIN	3 CTING	BBP		CING	NA
JAK TES	HUAKTES	DEHP	HUAKTES	WIAK TES	NA
1G		DIBP			NA
ESTI	TING	Pb	BL	- WAKTESTIN	Comply
	HUAKTES	Cd	BL	•	Comply
		Hg	BL	TESTING	Comply
	THE THE	Cr(VI)	BL ®	Max .	Comply
53	Diagk plantin hann	PBBs	HUAN BL	HUAKTESTIL	Comply
53	Black plastic base	PBDEs	BL		Comply
		DBP		N.D.	Comply
OK TESTIN	S AKTESTING	BBP	AK TESTING	N.D. TESTING	Comply
lon.	(HOLD	DEHP	O HOW	N.D.	Comply
ESTING		DIBP		N.D.	Comply
	V. TESTING	Pb	y TESTING BL	HUAK	Comply
	O HUAN	Cd	BL	(Comply
		Hg	BL	WAY TESTING	Comply
.78	STING OX TESTING	Cr(VI)	BL	TESTIN	Comply
E A	Plack silver tage	PBBs	BL	HUAR.	Comply
54	Black, silver tags	PBDEs	BL		Comply
-7115	5 TING	DBP		-TING	NA
WAK TES.	HUAKTES	BBP	HUAK TES	THAT TES	NA
		DEHP			NA
ESTING	ωG	DIBP		LOK TESTING	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	
TESTING		Pb	BL	W TESTING	Comply	
		Cd	BL	MIAN	Comply	
		Hg	BL	nG	Comply	
		Cr(VI)	BL	HUANTESTI	Comply	
EEKTEST	Plack plactic	PBBs	BL	OK TESTING	Comply	
55	Black plastic	PBDEs	BL	HUAN	Comply	
		DBP		N.D.	Comply	
STING		BBP	STING	N.D.	Comply	
HUAK TES		DEHP	HUAKTE	N.D.	Comply	
a)G		DIBP		N.D.	Comply	
EST.	TING	Pb	BL	- WAY TEST	Comply	
		Cd	BL	.	Comply	
8		Hg	BL	TESTING	Comply	
		Cr(VI)	BL 🕬 🧥	HUAK .	Comply	
56	DI HUAK TES	PBBs	BL		Comply	
56	Black, silver tags	PBDEs	BL	<u></u>	Comply	
		DBP			NA	
OK TESTING		BBP	AKTESTING		NA	
HOM		DEHP	O HUND	O HOM	NA	
ESTING		DIBP		-SING	NA	
	X TESTING	Pb	BL	HUAK	Comply	
		Cd	BL	(Comply	
		Hg	BL	WAKTESTING	Comply	
TEST		Cr(VI)	BL	TESTING	Comply	
HUAK	Disabatia	PBBs	BL	HUAK.	Comply	
57	Black plastic	PBDEs	BL		Comply	
711/3		DBP	_{my} G	N.D.	Comply	
HUAKTESTII		BBP	HUAK TEST	N.D.	Comply	
		DEHP		N.D.	Comply	
TESTING		DIBP		N.D.	Comply	

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Remark:

(1) (a) 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.

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr (VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the

concentration	exceeds the below warning val	ue according to IEC62321-3-1:20	13 (unit: mg/kg)
Element	Polymer	Metal	Composite Materials
Cd	BL≤(70-3σ) <x<(130+3σ) ≤OL</x<(130+3σ) 	BL≤(70-3σ) <x<(130+3σ) td="" ≤ol<=""><td>LOD<x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)></td></x<(130+3σ)>	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>
Pb	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(500-3σ) <x<(1500+3σ) ≤OL</x<(1500+3σ)
Hg Hg	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(500-3σ) <x<(1500+3σ) ≤OL</x<(1500+3σ)
Br	BL≤(300-3σ) <x< td=""><td><u></u></td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>	<u></u>	BL≤(250-3σ) <x< td=""></x<>
Cr	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>

- (c) BL = Below warning value, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,
- -- = Not Regulated, NA = Not Applicable.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) 1mg/kg = 1ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.
- (b) Unit and Method Detection Limit (MDL) in wet chemical test

	Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	⊳ mg/kg	mg/kg
JA.	MDL	2	2	2	[©] 50	50	50	50

The MDL for single compound of PBBs & PBDEs is 5 mg/kg, MDL of Cr(VI) for polymer & composite sample is 8 mg/kg and MDL of DBP, BBP, DEHP and DIBP is 50mg/kg.

(c) When Cr(VI) for metal sample is testing according to IEC 62321-7-1:2015, the unit is μ g/cm², and the MDL is 0,10 μ g/cm². When the Cr (VI) concentration is > the 0,13 μ g/cm², the sample is positive for Cr(VI) and considered to contain Cr(VI); when the Cr (VI) concentration is N.D.(< the 0,10 μ g/cm²), the sample is negative for Cr(VI) and considered a non-Cr(VI) based coating; when the Cr (VI) concentration is \geq the 0,10 μ g/cm² and \leq the 0,13 μ g/cm², the result is considered to be inconclusive - Unavoidable coating variations may influence the determination.





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- (d) [®]RoHS Exemption: 6(c), Copper alloy containing up to 4 % lead by weight.
- (e) For necessary wet chemistry measurements (flame retardants, phthalates) components with a weight of less than 0.1 grams are not considered for testing and rating due to technical measurement reasons.
- (3) The maximum permissible limit is quoted from the Directive (EU) 2015/863 Amendment of EU RoHS Directive 2011/65/EU (RoHS 2.0) Annex II.

RoHS Restricted Substances	Maximum Concentration Value (by weight in homogenous materials)
Lead (Pb)	0.1%
Cadmium (Cd)	0.01%
Mercury (Hg)	0.1%
Hexavalent Chromium (Cr VI)	0.1%
Polybrominated biphenyls (PBBs)	0.1%
Polybrominated diphenylethers (PBDEs)	0.1%
Dibutyl Phthalate (DBP)	0.1%
Benzylbutyl Phthalate (BBP)	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	0.1%
Diisobutyl Phthalate (DIBP)	0.1%



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RoHS Exemptions

Exemptions	HANTES!
Directive (EU)2017/2102 amending Annex III to Directive 201	1/65/EU
Exemption Items	Expires Date
Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	HUAR
1(a), For general lighting purposes < 30 W:3,5 mg	Expires on 24 February 2023
1(b), For general lighting purposes≥ 30 W and < 50W:3,5mg	Expires on 24 February 2023
1(c), For general lighting purposes ≥ 50 W and < 150 W: 5 mg	Expires on 24 February 2023
1(d), For general lighting purposes ≥ 150 W: 15 mg	Expires on 24 February 2023
1(e), For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 7 mg	Expires on 24 February 2023
1(f)-I,For lamps designed to emit mainly light in the ultraviolet spectrum: 5 mg	Expires on 24 February 2027
1(f)-II,For special purposes: 5 mg	Expires on 24 February 2025
1(g),For general lighting purposes < 30 W with a lifetime equal or above 20000 h: 3,5 mg	Expires on 24 August 2023
2(a),Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	HUAKTEETH.
2(a)(1),Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	Expires on 24 February 2023
2(a)(2),Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg	Expires on 24 August 2023
2(a)(3),Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8):3.5mg	Expires on 24 August 2023
2(a)(4),Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg	Expires on 24 February 2023
2(a)(5),Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg	Expires on 24 February 2023
2(b), Mercury in other fluorescent lamps not exceeding (per lamp):	STING STING
2(b)(1),Linearhalophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg	Expires on 13 April 2012
2(b)(2),Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
2(b)(3),Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9):15mg	Expires on 24 February 2023; 10 mg may be used pe lamp from 25 February 2023 until 24 February 2025
2(b)(4) -I, Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Expires on 24 February 2025
2(b)(4) -II, Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	Expires on 24 February 2027
2(b)(4) -III, Emergency lamps: 15 mg	Expires on 24 February 2027
3, Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp):	O HUAKTEE O HUAK
3(a), Short length (≤500 mm):3.5mg	Expires on 24 February 2025
3(b), Medium length (> 500 mm and ≤ 1 500 mm):5mg	Expires on 24 February 2025
3(c), Long length (> 1 500 mm):13mg	Expires on 24 February 2025
4(a), Mercury in other low pressure discharge lamps (per lamp):15mg	Expires on 24 February 2023
4(a)-I,Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp-spectral output to be in the ultraviolet spectrum: up to 15 mg mercury may be used per lamp	Expires on 24 February 2027

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Directive (EU)2017/2102 amending Annex III to Directive 2011/5EU Exemption Items	PORT No.: HK24062510046-1RR	Date: July 16, 2024	Pa	age 26 of 48
Expires Date 4(b), Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 80. P ≤ 108 W: 16 mg may be used per burner 4(b) -Irendering indexRa > 60. P ≤ 105 W: 20 mg 4(b) -Ilrendering indexRa > 60. P ≤ 105 W: 20 mg 4(b) -Ilrendering index Ra > 60. P ≤ 405 W:40 mg 4(b) -Ilrendering index Ra > 60. P > 405 W:40 mg 4(c). Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): 4(c). Ilr. P ≤ 105 W:20 mg 4(c). Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): 4(c). Ilr. P ≤ 105 W:20 mg 4(c). Mercury in High Pressure Mercury (vapour) lamps (HPMV) 4(c). Mercury in High Pressure Mercury (vapour) lamps (HPMV) 4(c). Mercury in metal halide lamps (MH) 4(d). Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is 4(f). Ill. Mercury in high pressure mercury vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f). Ill. Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(300	Exemptions	TING	TING
4(b). Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 80. P ≤ 105 W: 16 mg may be used per burner 4(b) -I.rendering indexRa > 60. P ≤ 405 W: 30 mg 4(b) -I.rendering indexRa > 60. P ≤ 405 W: 40 mg 4(b) -I.rendering index Ra > 60. P ≤ 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 40 mg 4(c). Herndering index Ra > 60. P > 405 W: 20 mg 4(c). Herndering index Ra > 60. P > 40	Directive (EU)2017/21	02 amending Annex III to Directive 2011/	65/EU	HUAK TES.
tamps with improved colour rendering index Ra > 80. P ≤ 105 W: 16 mg may be used per burner Expires on 24 February 2023 4(b)-I.rendering indexRa > 60.P ≤ 155 W:30 mg Expires on 24 February 2023 4(b)-III.rendering index Ra > 60.P ≤ 405 W:40 mg Expires on 24 February 2023 4(c)-III.rendering index Ra > 60.P > 405 W:40 mg Expires on 24 February 2023 4(c)-III.rendering index Ra > 60.P > 405 W:40 mg Expires on 24 February 2023 4(c)-III.rendering index Ra > 60.P > 405 W:40 mg Expires on 24 February 2027 4(c)-II.FS ± 155 W:20 mg Expires on 24 February 2027 4(c)-III.FS ± 405 W:25 mg Expires on 24 February 2027 4(d)-III.PS ± 405 W:25 mg Expires on 24 February 2027 4(d)-III.PS ± 405 W:25 mg Expires on 24 February 2027 4(d)-III.PS ± 405 W:25 mg Expires on 24 February 2027 4(d)-III.PS ± 405 W:25 mg Expires on 24 February 2027 4(f)-III.Mercury in high pressure Mercury (vapour) lamps (HPMV) Expires on 24 February 2027 4(f)-III.Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex Expires on 24 February 2027 4(f)-III.Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is expires on 24 February 2027 4(f)-III.Mercury in high pressure sodium vapour lamps used for horticulture lighting Expires on 24 February 2027 4(f)-III.Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0.3 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. Expires on 31 December 2018	nption Items		Expires Date	
4(b)-II.rendering index Ra > 60:155 W < P ≤ 405 W:40mg 2(c)-III.rendering index Ra > 60: P > 405 W:40mg 2(c)-III.rendering index Ra > 60: P > 405 W:40mg 2(c)-II.P ≤ 155 W:20mg 2(c)-III.755 W < P ≤ 405 W:25mg 2(c)-III.755 W < P ≤ 405 W:25mg 2(c)-III.P > 405 W:25mg 2(c)-III.P > 405 W:25mg 2(c)-III.P > 405 W:25mg 2(c)-III.P > 405 W:25mg 3(c)-III.P > 405 W:25mg 3(c)-III.P > 405 W:25mg 3(c)-III.P > 405 W:25mg 4(d)-III.P > 405 W:25mg 5(e)-III.P > 405 W:25mg 5(e)-II.R P > 405 W:25mg 5(e	AG NEW TOTAL	_\(\text{G}\)	Expires on 24 February 2027	ETING
4(b)-III,rendering index Ra > 60: P > 405 W:40mg 4(c)-Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): 4(c)-I,P ≤ 155 W:20mg 4(c)-III,155 W < P ≤ 405 W:25mg Expires on 24 February 2027 4(c)-III,155 W < P ≤ 405 W:25mg Expires on 24 February 2027 4(d)-Mercury in High Pressure Mercury (vapour) lamps (HPMV) Expires on 13 April 2015 4(e)-Mercury in metal halide lamps (MH) Expires on 14 February 2027 4(f)-III,Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex Expires on 24 February 2027 4(f)-III,Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required 4(f)-III,Mercury in high pressure sodium vapour lamps used for horticulture lighting 4(f)-IV,Mercury in lamps emitting light in the ultraviolet spectrum 4(f)-IV,Mercury in lamps emitting light in the ultraviolet spectrum 4(g),Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0.3 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. Expires on 31 December 2018	-I,rendering indexRa > 60:P ≤155 W:30mg	HILAN.	Expires on 24 February 2023	HUAK,
4(c).Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): 4(c)-I,P ≤ 155 W-20mg Expires on 24 February 2027 4(c)-II,155 W < P ≤ 405 W:25mg Expires on 24 February 2027 4(d).Mercury in High Pressure Mercury (vapour) lamps (HPMV) Expires on 13 April 2015 4(e).Mercury in metal halide lamps (MH) Expires on 24 February 2027 4(f).II,Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex Expires on 24 February 2027 4(f).II,Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required 4(f).III,Mercury in high pressure sodium vapour lamps used for horticulture lighting Expires on 24 February 2027 4(f).II,Mercury in lamps emitting light in the ultraviolet spectrum 4(f).IV,Mercury in lamps emitting light in the ultraviolet spectrum 4(f).IV,Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as foliows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications applications. 5(a), Lead in glass of cathode ray tubes 5(b), Lead in glass of cathode ray tubes 5(b), Lead in glass of cathode ray tubes 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight 6(a)-I, Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanized steel components containing up to 0,2 % lead by weight	-II,rendering index Ra > 60:155 W < P ≤ 405 W:40mg		Expires on 24 February 2023	
4(c)-I,P ≤ 155 W-20mg Expires on 24 February 2027 4(c)-II,155 W < P ≤ 405 W-25mg Expires on 24 February 2027 4(c)-II,I-55 W < P ≤ 405 W-25mg Expires on 24 February 2027 4(d)-III,P > 405 W-25mg Expires on 13 April 2015 Expires on 13 April 2015 4(e),Mercury in High Pressure Mercury (vapour) lamps (HPMV) Expires on 13 April 2015 4(e),Mercury in metal halide lamps (MH) Expires on 24 February 2027 4(f)-II,Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex Expires on 24 February 2025 4(f)-III,Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is expires on 24 February 2027 4(f)-III,Mercury in high pressure sodium vapour lamps used for horticulture lighting Expires on 24 February 2027 4(f)-III,Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a)	-III,rendering index Ra > 60: P > 405 W:40mg	THE STING OF HI	Expires on 24 February 2023	TING
4(c)-II,155 W < P ≤ 405 W:25mg Expires on 24 February 2027 4(d)-III,P> 405 W:25mg Expires on 24 February 2027 4(d),Mercury in High Pressure Mercury (vapour) lamps (HPMV) Expires on 13 April 2015 4(e),Mercury in metal halide lamps (MH) Expires on 24 February 2027 4(f)-II,Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex Expires on 24 February 2025 4(f)-II,Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is expires on 24 February 2027 4(f)-III,Mercury in high pressure sodium vapour lamps used for horticulture lighting Expires on 24 February 2027 4(f)-IV,Mercury in lamps emitting light in the ultraviolet spectrum Expires on 24 February 2027 4(g),Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a), Lead in glass of cathode ray tubes 5(b), Lead in glass of cathode ray tubes 5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	Dr. HOLL	HUAKTE	HUAKTESI	MUAK TEL
4(c)-III.P> 405 W:25mg Expires on 24 February 2027 4(d).Mercury in High Pressure Mercury (vapour) lamps (HPMV) Expires on 13 April 2015 4(e).Mercury in metal halide lamps (MH) Expires on 24 February 2027 4(f)-II.Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex Expires on 24 February 2025 4(f)-III.Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required 4(f)-III.Mercury in high pressure sodium vapour lamps used for horticulture lighting Expires on 24 February 2027 4(f)-IV.Mercury in lamps emitting light in the ultraviolet spectrum 4(g).Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a). Lead in glass of cathode ray tubes 5(b). Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a). Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	,P ≤ 155 W:20mg		Expires on 24 February 2027	
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4(f)-I,Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex 4(f)-II,Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required Expires on 24 February 2027 4(f)-IV,Mercury in high pressure sodium vapour lamps used for horticulture lighting Expires on 24 February 2027 Expires on 24 February 2027 4(g),Mercury in lamps emitting light in the ultraviolet spectrum Expires on 24 February 2027 4(g),Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	Mercury in High Pressure Mercury (vapour) lamps (HPMV)	(9)	Expires on 13 April 2015	(9)
4(f)-III,Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required 4(f)-III,Mercury in high pressure sodium vapour lamps used for horticulture lighting Expires on 24 February 2027 4(f)-IV,Mercury in lamps emitting light in the ultraviolet spectrum Expires on 24 February 2027 4(g),Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a), Lead in glass of cathode ray tubes 5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	Mercury in metal halide lamps (MH)	16	Expires on 24 February 2027	,Co
Expires on 24 February 2027 4(f)-III,Mercury in high pressure sodium vapour lamps used for horticulture lighting Expires on 24 February 2027 4(f)-IV,Mercury in lamps emitting light in the ultraviolet spectrum Expires on 24 February 2027 4(g),Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a), Lead in glass of cathode ray tubes 5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight 6(a)-I,Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	Mercury in other discharge lamps for special purposes not specificall,	mentioned in this Annex	Expires on 24 February 2025	WAX TESTING
4(f)-IV,Mercury in lamps emitting light in the ultraviolet spectrum 4(g),Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a), Lead in glass of cathode ray tubes 5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight 6(a)-I,Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	ani G	here an output ≥ 2000 lumen ANSI is	Expires on 24 February 2027	
4(g), Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a), Lead in glass of cathode ray tubes 5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight 6(a)-I,Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	II,Mercury in high pressure sodium vapour lamps used for horticulture	lighting	Expires on 24 February 2027	TING
lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications. 5(a), Lead in glass of cathode ray tubes 5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight 6(a)-I,Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	V,Mercury in lamps emitting light in the ultraviolet spectrum	HUAKTES	Expires on 24 February 2027	HUAK TES
5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight 6(a)-I,Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	ng and light-artwork, where the mercury content shall be limited as fol er tube length in cm, but not more than 80 mg, for outdoor application eratures below 20 °C; 5 mg per electrode pair + 0,24 mg per tube length in cm, but not more	ows: (a) 20 mg per electrode pair + 0,3 s and indoor applications exposed to	Expires on 31 December 2018	HUAY TESTIVE
6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight 6(a)-I,Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	Lead in glass of cathode ray tubes		STING	
lead by weight 6(a)-I,Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight		HUAKT	
batch hot dip galvanised steel components containing up to 0,2 % lead by weight		alvanized steel containing up to 0,35 %	THIS O	HUAR
6(b),Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	C AN HOME	Ham o.	JAKTES .	TETING
	Lead as an alloying element in aluminium containing up to 0,4 % lead	by weight	MAKTES	HUAK
6(b)-I, Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	l, Lead as an alloying element in aluminium containing up to 0,4 % lea	d by weight		
6(b)-II, Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	II, Lead as an alloying element in aluminium containing up to 0,4 $\%$ le	ad by weight		
6(c), Copper alloy containing up to 4 % lead by weight	Copper alloy containing up to 4 % lead by weight	NG NESTING	W TESTING	- K TESTING
7(a), Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	Lead in high melting temperature type solders (i.e. lead- based alloys	containing 85 % by weight or more	O HUM	(HOW
7(b), Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	C W TES	-6	WAY TESTING	STING

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



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STING STILL	G	Exemptions	Surre Surre
	Directive (EU)2017/2102 a	mending Annex III to Directive 2011/6	5/EU
Exemption Items	9		Expires Date
7(c)-I, Electrical and electronic component capacitors, e.g. piezoelectronic devices, o	NK The	_\G	MANTESTINE SEINE
7(c)-II, Lead in dielectric ceramic in capaci	tors for a rated voltage of 125 V AC o	or 250 V DC or higher	HUAKIL
7(c)-III, Lead in dielectric ceramic in capac	itors for a rated voltage of less than '	125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
7(c)-IV, Lead in PZT based dielectric cera semiconductors	nic materials for capacitors being par	rt of integrated circuits or discrete	Expires on: -21 July 2021 for categories 1-7 and 10; -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; -21 July 2023 for category 8 in vitro diagnostic medical
ESTING	O HUM	O HUM	devices; -21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
B(a), Cadmium and its compounds in one	shot pellet type thermal cut-offs	O HUANTESTINE	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
8(b), Cadmium and its compounds in elect	rical contacts		IK TES
8(b)-I,Cadmium and its compounds in electric circuit breakers, - thermal sensing controls, - thermal motor protectors (excluding here AC switches rated at: 6 A and more at 2 DC switches rated at 20 A and more at 3.	metic thermal motor protectors), 50 V AC and more, or 12 A and more 18 V DC and more, and	e at 125 V AC and more,	HUANTESTING HUANTESTING
Hexavalent chromium as an anticorrosic up to 0,75 % by weight in the cooling solut	-	system in absorption refrigerators	₩ .ve
9(a)-I,Up to 0,75 % hexavalent chromium carbon steel cooling systems of absorption electrical heater, having an average utilize	n refrigerators (including minibars) de	esigned to operate fully or partly with	Applies to categories 1-7 and 10 and expires on 5 March 2021.
9(a)-II,Up to 0,75 % hexavalent chromium carbon steel cooling systems of absorptior - designed to operate fully or partly with e constant running conditions, - designed to fully operate with nonelectrications.	n refrigerators: lectrical heater, having an average ut cal heater.	tilised power input ≥ 75 W at	Applies to categories 1-7 and 10 and expires on 21 July 2021.
9(a)-III,Up to 0,7 % hexavalent chromium carbon steel sealed circuit of gas absorption	· ·	-	Applies to category 1 and expires on 31 December 2026.



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Exemptions	Elm Elm
Directive (EU)2017/2102 amending Annex III to Directive 2011/	65/EU
Exemption Items	Expires Date
9(b), Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Applies to categories 8, 9 and 11; expires on: - 21 July 2023 for category 8 in vitro diagnostic medical devices, - 21 July 2024 for category 9 industrial monitoring and control instruments and for category 11, - 21 July 2021 for other subcategories of categories 8 and 9.
9(b)-(l),Lead in bearing shells and bushes for refrigerant-containing hermetic scroll compressors with a stated electrical power input equal or below 9 kW for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Applies to category 1; expires on 21 July 2019.
11(a), Lead used in C-press compliant pin connector systems 11(b), Lead used in other than C-press compliant pin connector systems	May be used in spare parts for EEE placed on the market before 24 September 2010 Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
12, Lead as a coating material for the thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010
13(a), Lead in white glasses used for optical applications	Applies to all categories; expires on: - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; - 21 July 2021 for all other categories and subcategories
13(b), Cadmium and lead in filter glasses and glasses used for reflectance standards	Applies to categories 8, 9 and 11; expires on: - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; - 21 July 2021 for other subcategories of categories 8 and 9
13(b)- (I),Lead in ion coloured optical filter glass types	O HUM
13(b)- (II),Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	W TESTING
13(b)- (III),Cadmium and lead in glazes used for reflectance standards	TESTING TESTING
14, Lead in solders consisting of more than two elements for the connection between the pins and the package of micropro-cessors with a lead content of more than 80 % and less than 85 % by weight	Expired on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011

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TING TING	Exemptions	mic mic
Directive (EU)2017	/2102 amending Annex III to Directive 2011/6	5/EU
Exemption Items		Expires Date
15, Lead in solders to complete a viable electrical connection between sintegrated circuit flip chip packages	semiconductor die and carrier within	Applies to categories 8, 9 and 11 and expires on: - 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
15(a),Lead in solders to complete a viable electrical connection between integrated circuit flip chip packages where at least one of the following of technology node of 90 nm or larger; - a single die of 300 mm2 or larger stacked die packages with die of 300 mm2 or larger, or silicon interpose	criteria applies:- a semiconductor in any semiconductor technology node; -	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.
16, Lead in linear incandescent lamps with silicate coated tubes		Expires on 1 September 2013
17, Lead halide as radiant agent in high intensity discharge (HID) lamps applications	s used for professional reprography	TESTIVG
18(a), Lead as activator in the fluorescent powder (1 % lead by weight speciality lamps for diazoprinting reprography, lithography, insect traps, containing phosphors such as SMS ((Sr,Ba)2MgSi2O7:Pb)	, ak in	MANAGESTING WHITESTING
18(b), Lead as activator in the fluorescent powder (1 % lead by weight of sun tanning lamps containing phosphors such as BSP (BaSi $_2$ O $_5$:Pb)	or less) of discharge lamps when used as	- 21 July 2021 for categories 8 and 9 other than in vitro diagnosticmedical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and
HDr. HDr.	€ HOW	control instruments, and for category 11.
18(b)-I,Lead as activator in the fluorescent powder (1 % lead by weight phosphors such as BSP (BaSi2O5:Pb) when used in medical photother	, , , , , , , , , , , , , , , , , , , ,	Applies to categories 5 and 8, excluding applications covered byentry 34 of Annex IV, and expires on 21 July 2021.
19,Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as managam in very compact energy saving lamps (ESL)	ain amalgam and with PbSnHg as auxiliary	Expires on 1 June 2011
20,Lead oxide in glass used for bonding front and rear substrates of flat Displays (LCDs)	t fluorescent lamps used for Liquid Crystal	Expires on 1 June 2011
21, Lead and cadmium in printing inks for the application of enamels on lime glasses	glasses, such as borosilicate and soda	Applies to categories 8, 9 and 11 and expires on: - 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
21(a),Cadmium when used in colour printed glass to provide filtering fur applications installed in displays and control panels of EEE	nctions, used as a component in lighting	Applies to categories 1 to 7 and 10 except applications covered by entry 21(b) or entry 39 and expires on 21 July 2021

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TING	TING	Exemptions	- Start
HUAKTES.	Directive (EU)2017/2102 amending Annex III to Directive	2011/65/EU
Exemption Items	(a)		Expires Date
21(b),Cadmium in prir glasses	nting inks for the application of enamels o	on glasses, such as borosilicate and soda lime	Applies to categories 1 to 7 and 10 except application covered by entry 21(a) or 39 and expires on 21 July 2021.
21(c),Lead in printing	inks for the application of enamels on oth	ner than borosilicate glasses	Applies to categories 1 to 7 and 10 and expires on 2 July 2021.
23, Lead in finishes of	fine pitch components other than conne	ctors with a pitch of 0,65 mm and less	May be used in spare parts for EEE placed on the market before 24 September 2010
24, Lead in solders fo capacitors	r the soldering to machined through hole	discoidal and planar array ceramic multilayer	Expires on: - 21 July 2021 for categories 1-7 and 10 21 July 2021 for categories 8 and 9 other than in vit diagnostic medical devices and industrial monitoring and control instruments, - 21 July 2023 for category in vitro diagnostic medical devices, - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
25, Lead oxide in surf	ace conduction electron emitter displays	(SED) used in structural elements, notably in the	he www.TESTING
26,Lead oxide in the g	lass envelope of black light blue lamps		Expires on 1 June 2011
-	ler for transducers used in high-powered 3 SPL and above) loudspeakers	(designated to operate for several hours at acc	oustic Expired on 24 September 2010
HUAK TESTING	HUANTESTING OFF	ies 1, 2, 3 and 4) of Council Directive 69/493/E	Expires on: - 21 July 2021 for categories 1-7 and 10; - 21 July 2021 for categories 8 and 9 other than in vitro diagnosticmedical devices and industrial monitoring and ontrol instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring a control instruments, and for category 11.
1E-	- 'G	ec-trical conductors located directly on the voice	pe coil
		lamps (which e.g. are used for liquid crystal	WIN HUAN ESTIVE
32, Lead oxide in seal	frit used for making window assemblies	for Argon and Krypton laser tubes	Expires on: - 21 July 2021 for categories 1-7 and 10, - 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, - 21 July 2023 for category 8 in vitro diagnostic medical devices, - 21 July 2024 for category 9 industrial monitoring a



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STING	SAME	Exemptions	mic mic
NAKTEL	Directive (EU)2017/21	02 amending Annex III to Directive 2011/	65/EU
Exemption Items			Expires Date
34, Lead in cermet-based trimme	er potentiometer elements	HUANTESTING ON	Applies to all categories; expires on: - 21 July 2021 for categories 1-7 and 10, - 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, - 21 July 2023 for category 8 in vitro diagnostic medical devices, - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
36, Mercury used as a cathode s	puttering inhibitor in DC plasma displays v	with a content up to 30 mg per display	Expired on 1 July 2010
37, Lead in the plating layer of h	igh voltage diodes on the basis of a zinc b	orate glass body	Expires on: - 21 July 2021 for categories 1-7 and 10; - 21 July 2021 for categories 8 and 9 other than in vitro diagnosticmedical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
38, Cadmium and cadmium oxid	e in thick film pastes used on aluminium b	onded beryllium oxide	TING STING
File You	nshifting cadmiumbased semiconductor na 2 µg Cd per mm2 of display screen area)	anocrystal quantum dots for use in	Expires for all categories on 31 October 2019
40, Cadmium in photoresistors for	or analogue optocouplers applied in profes	ssional audio equipment	Expires on 31 December 2013
boards used in ignition modules reasons must be mounted direct	ion finishes of electrical and electronic con and other electrical and electronic engine ly on or in thecrankcase or cylinder of han /68/EC of the European Parliament and of	control systems, which for technical d-held combustion engines (classes	Applies to all categories and expires on: - 31 March 2022 for categories 1 to 7, 10 and 11; - 21 July 2021 for categories 8 and 9 other than in vitro diagnosticmedical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments.
road professional use equipmen 15 litres and the engine is design is required to be less than 10 sec	of diesel or gaseous fuel powered interna t:- with engine total displacement ≥ 15 litre ned to operate in applications where the tir conds; or regular maintenance is typically instruction, and agriculture applications	s; or - with engine total displacement <	Applies to category 11, excluding applications covered by entry 6(c) of this Annex. Expires on 21 July 2024.



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TEL OITH NO HITZ-TO	7023 100 4 0-11(1)	Date. July 1	0, 2027	i age oz oi i o
TING	TING	Exemptions	TING	TING TING
WAKTES.	Directive (E	EU)2017/2102 amending Annex III to	o Directive 2011/65/EU	AKTES.
Exemption Items			Expires Dat	te
intended solely for consumer use membranes or into prolonged co does not exceed: (a) 30 % by weight of the rubber included in assemblies of at leas and attached to the engine (b) 10 % by weight of the rubber	e and provided that no plasticis intact with human skin and the for (i) gasket coatings; (ii) solid it three components using elect for rubbercontaining components in human skin' means continuo	systems, designed for use in equipned material comes into contact with concentration value of bis(2-ethylhed). In the properties of the pr	ponents Applies to ca	ategory 11 and expires on 21 July 2024
Regulation (EU) 2016/1628 of th	e European Parliament and of	s of combustion engines within the s the Council (4), installed in equipme , but also used by non-professional	ent used at fixed Applies to ca	ategory 11 and expires on 21 July 2024.
	for civil (professional) use and	(lead tetroxide), lead dioxide in elec barium chromate in long time pyrot use		ategory 11 and expires on 20 April 2026
Note: 1. OJ L 174 1.7.2011, p.88	B	- UNKTES.	0	- WAKTED

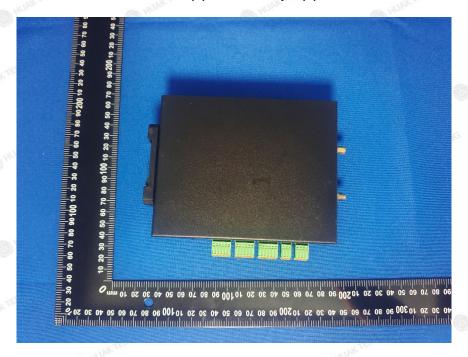
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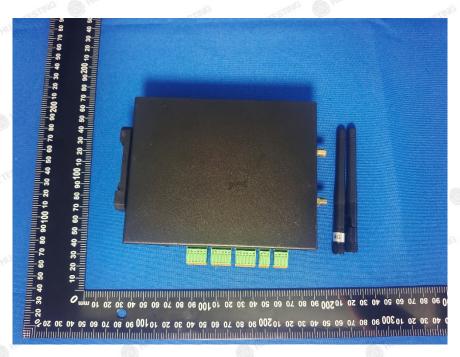
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Revision 1.0	Initial Tes	st Report Release	2024/07/16	Jason Zho	u
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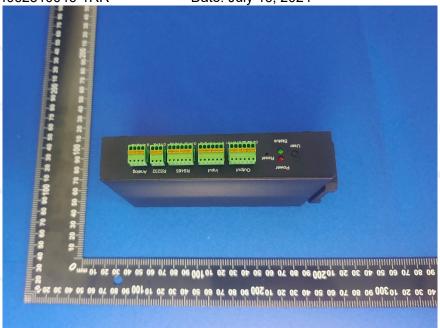
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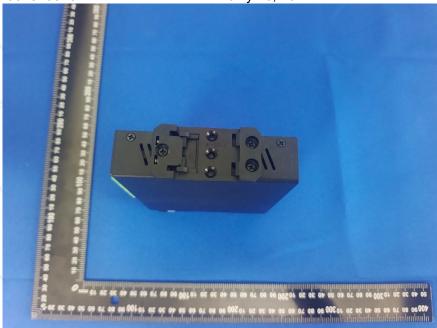
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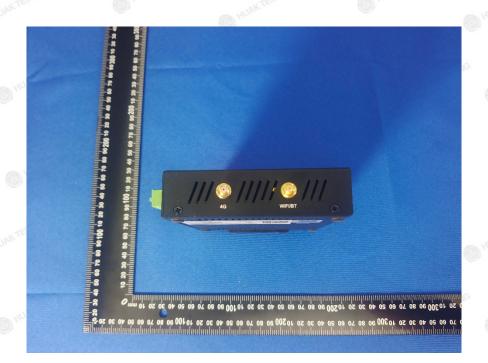






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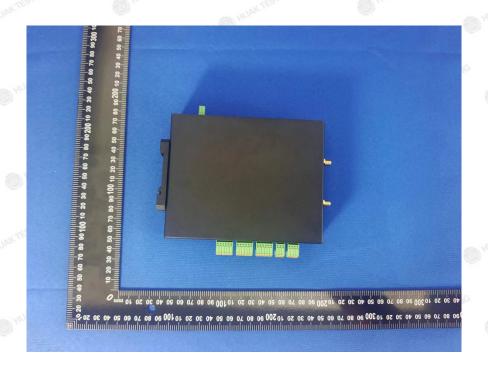






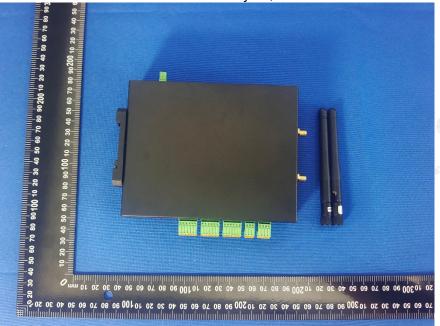
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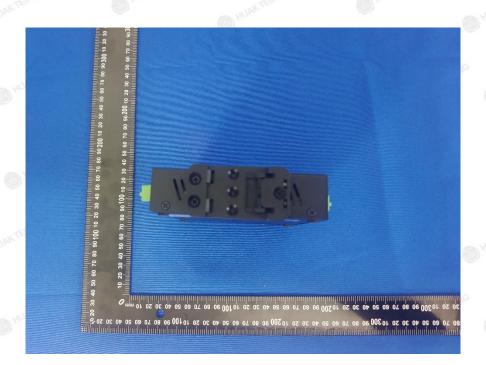






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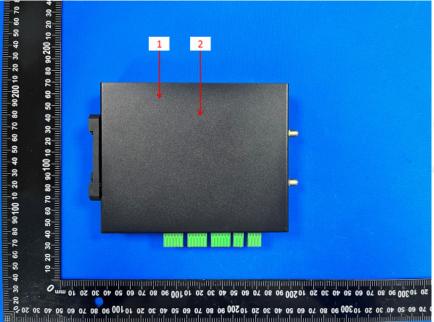








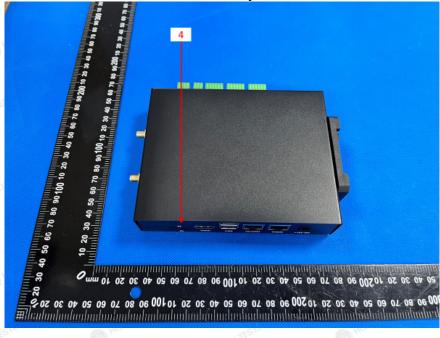
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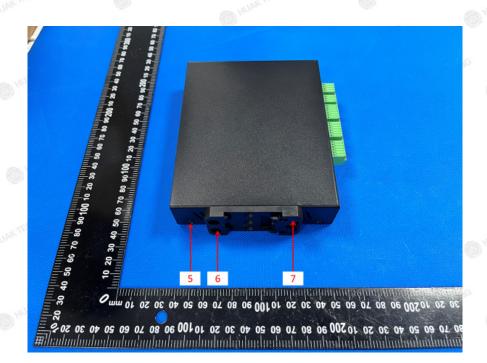






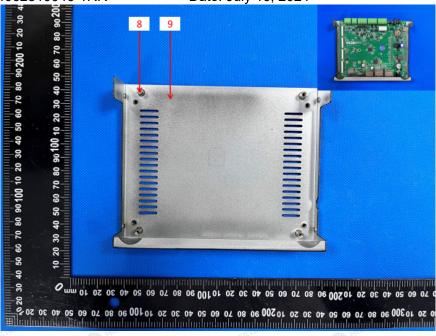
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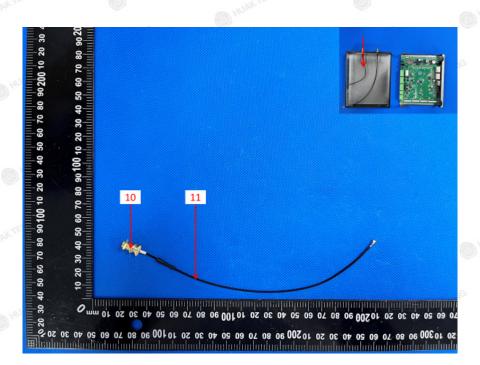






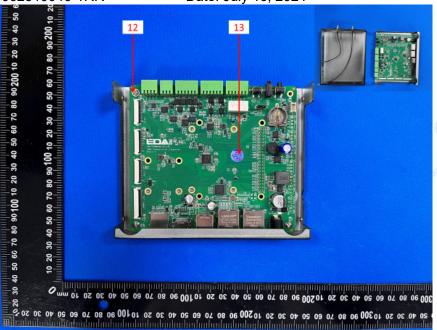
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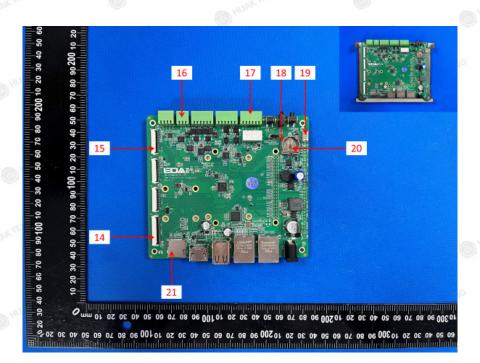






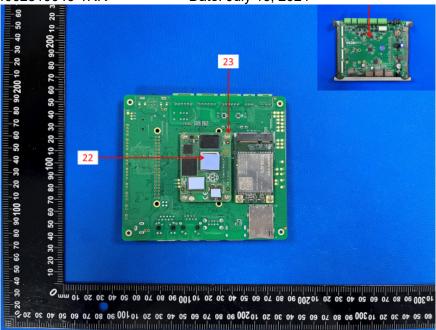
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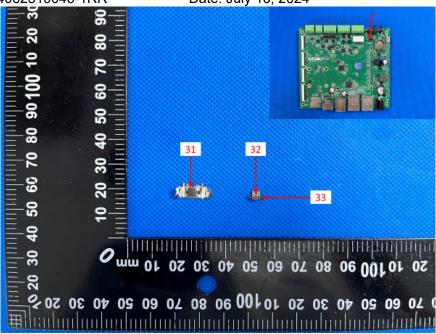
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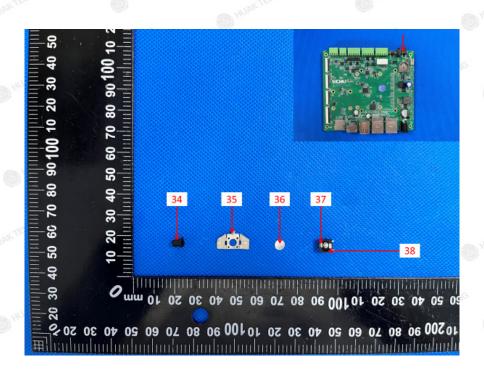






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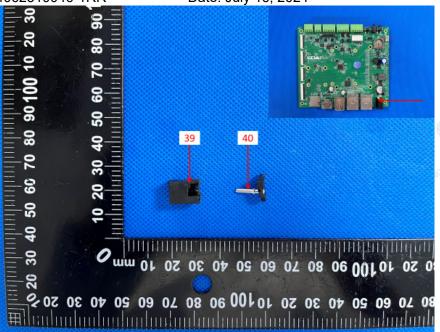


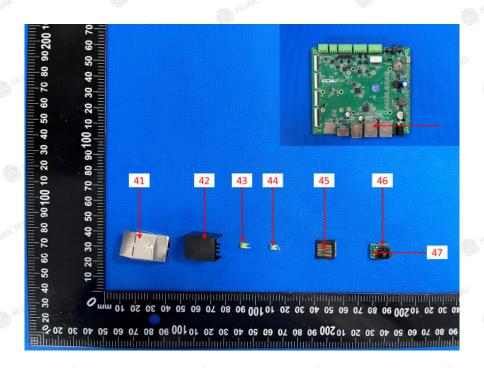


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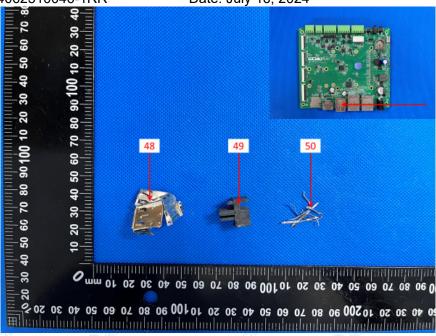
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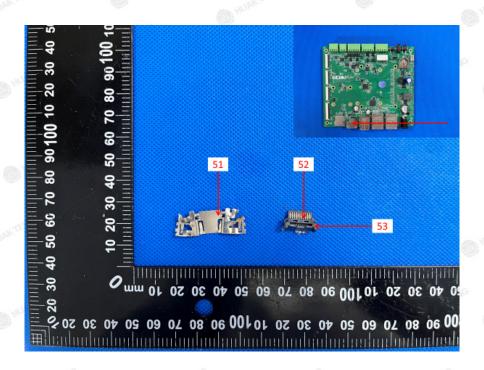






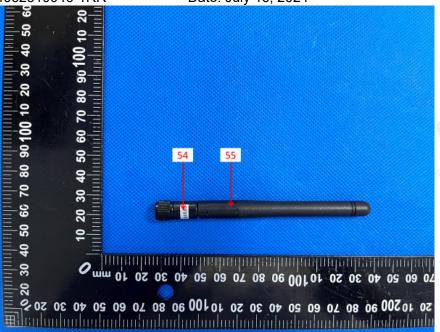
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