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Company Name

ZHEJIANG RECTRON ELECTRONIC CO.,LTD.

shown on Report

Address NO.28 LIZHENG ROAD, HUIMIN DISTRICT, JIASHAN COUNTY, JIAXING

> CITY, ZHEJIANG PROVINCE, CHINA/ NO.111 CHENGGONG ROAD, HUIMIN DISTRICT, JIASHAN COUNTY, JIAXING CITY, ZHEJIANG PROVINCE, CHINA

Sample Received Date

May 28, 2025

Testing Period

May 28, 2025 to Jun. 16, 2025

Test Requested

As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Beryllium(Be), Antimony(Sb), Fluorine (F), Chlorine (Cl), Bromine (Br), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS), Phthalates, Asbestos in the submitted

sample(s).

Test Method/Test Result(s)

Please refer to the following page(s).

ntre Testing International Pinbiao(Shanghai) Co., Ltd.

Chen kaimin Lab Manager Date

Jun. 16, 2025

No. R748861495

No.1351, Wanfang Road, Minhang District, Shanghai, China



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The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

the applicant				
CTI Sample ID	Sample Name(s)	Model No.	Material	Reference Report No CTI Sample ID
001	Bonding Wire	WS-CW	Copper	A2250331533101001
002	Coating / Silicon Rubber	XE13-C2946	Silicon Rubber	A2250331533101002
003	Solder Paste	NC-777	Pb, Sn, Ag	A2250331533101003-003
004	Solder Wafer	Sn5Ag2.5Pb92.5	Pb, Sn, Ag	A2250331533101004
005	Plating	Sn99.90AA (99.9% min)	Tin	A2250331533101005
006	Lead Wire/Lead Frame	CDA/C1940, KFC/C19210	Copper	A2250331533101006
007	Dice Wafer	GPP Wafer	Silicon	A2250331533101007
009	None HF Molding	EME-E1200	Epoxy	A2250331533101009
010	Ink	UV NO.3		A2250331533101010
011	Solder Paste	NC-777	Pb、Sn、Ag	A2250331533101003-011

Remark:

The samples with the reference information in the table above are non-tested in this report. According to the client's statement, test results and the photosof the "CTI Sample ID" column reference to "Reference Report No. - CTI Sample ID." column.



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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)	
1 1(0)	IEC 62321-5:2013	ICD OFG	
Lead (Pb)	Refer to IEC 62321-5:2013	ICP-OES	
C 1 : (C)	IEC 62321-5:2013	ICD OFG	
Cadmium (Cd)	Refer to IEC 62321-5:2013	ICP-OES	
Managar (Ha)	IEC 62321-4:2013+AMD1:2017 CSV	ICD OES	
Mercury (Hg)	Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
	IEC 62321-7-1:2015	UV-Vis	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
	Total Chromium by IEC 62321-5:2013	UV-VIS/ICF-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-12:2023	GC-MS	
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS	
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS	
	Refer to US EPA 3050B:1996 & US EPA		
D W (D)	6010D:2018	ICD OES	
Beryllium(Be)	Refer to US EPA 3052:1996 & US EPA	ICP-OES	
	6010D:2018		
	Refer to US EPA 3050B:1996 & US EPA		
Antimony(Ch)	6010D:2018	ICP-OES	
Antimony(Sb)	Refer to US EPA 3052:1996 & US EPA	ICP-OES	
	6010D:2018		
Fluorine (F)	EN 14582:2016	IC	
Chlorine (Cl)	EN 14582:2016	IC	
Bromine (Br)	EN 14582:2016	IC	
Perfluorooctanoic Acid(PFOA)	Refer to DIN CEN/TS 15968:2010	LC-MS-MS/LC-MS	
Perfluorooctane Sulfonates(PFOS)	Refer to DIN CEN/TS 15968:2010	LC-MS-MS/LC-MS	
Phthalates	Refer to EN 14372:2004(E)	GC-MS	
Asbestos	ISO 22262-1:2012+NIOSH 9000:2015+NIOSH 9002:1994	PLM+XRD	

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Test Result(s)

Tested Item(s)	Result			MDL
rested item(s)	001	002	003	WIDL
Load (Db)	ND	N.D.	929288	2 ma/ka
Lead (Pb)	N.D.		mg/kg*	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. [▼]		N.D. [▼]	0.10 μg/cm ² (LOQ)
		N.D.		8 mg/kg

Tested Item(s)	Result			MDL
rested item(s)	004	005	006	MIDL
Lead (Pb)	948004	160 mg/kg	N.D.	2 ma/ka
Lead (Fb)	mg/kg*	160 mg/kg	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. [▼]	N.D. [▼]	N.D. [▼]	0.10 μg/cm ² (LOQ)
				8 mg/kg

Tested Item(s)	Result			MDL
Tested Item(s)	007	009	010	WIDL
Lead (Pb)	30950 mg/kg* ²	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))				0.10 μg/cm ² (LOQ)
	N.D.	N.D.	N.D.	8 mg/kg

Tested Item(s)	Result	MDL	
Tested Item(s)	011	MIDL	
Lead (Pb)	1329 mg/kg* ¹	2 mg/kg	
Cadmium (Cd)	N.D.	2 mg/kg	
Mercury (Hg)	N.D.	2 mg/kg	
Havavalant Chaamiyan (Ca(VI))	-	0.10 μg/cm ² (LOQ)	
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	



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Tested Item(s)	Result			MDL
Tested Item(s)	002	007	009	WIDL
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg

T(-)	Re	Result		
Tested Item(s)	010	011	MDL	
Polybrominated Biphenyls (PBI	Bs)	•		
Monobromobiphenyl	N.D.	N.D.	25 mg/kg	
Dibromobiphenyl	N.D.	N.D.	25 mg/kg	
Tribromobiphenyl	N.D.	N.D.	25 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	25 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	25 mg/kg	
Heptabromobiphenyl	N.D.	N.D.	25 mg/kg	
Hexabromobiphenyl	N.D.	N.D.	25 mg/kg	
Octabromobiphenyl	N.D.	N.D.	25 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	25 mg/kg	
Decabromobiphenyl	N.D.	N.D.	25 mg/kg	



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Tested Item(s)		Result	MDL	
resteu rtem(s)	002	007	009	WIDL
Polybrominated Diphenyl Ether	rs (PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg

Tested Item(s)	R	esult	MDL
rested ftem(s)	010	011	WIDL
Polybrominated Diphenyl Ethe	rs (PBDEs)		
Monobromodiphenyl ether	N.D.	N.D.	25 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	25 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	25 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	25 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	25 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	25 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	25 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	25 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	25 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	25 mg/kg



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Tested Item(s)	Result			MDL
resteu item(s)	001	003	004	WIDL
Polybrominated Biphenyls (PBBs	s)			
Monobromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg

T4-1 14(-)	Result	MDI	
Tested Item(s)	006	— MDL	
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	25 mg/kg	
Dibromobiphenyl	N.D.	25 mg/kg	
Tribromobiphenyl	N.D.	25 mg/kg	
Tetrabromobiphenyl	N.D.	25 mg/kg	
Pentabromobiphenyl	N.D.	25 mg/kg	
Hexabromobiphenyl	N.D.	25 mg/kg	
Heptabromobiphenyl	N.D.	25 mg/kg	
Octabromobiphenyl	N.D.	25 mg/kg	
Nonabromobiphenyl	N.D.	25 mg/kg	
Decabromobiphenyl	N.D.	25 mg/kg	

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ested Item(s)		Result		MDL
resteu rtem(s)	001	003	004	MIDL
Polybrominated Diphenyl Ether	rs (PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg

Tested Item(s)	Result	MDL
Tested Item(s)	006	MIDL
Polybrominated Diphenyl Ethers (PE	BDEs)	
Monobromodiphenyl ether	N.D.	25 mg/kg
Dibromodiphenyl ether	N.D.	25 mg/kg
Tribromodiphenyl ether	N.D.	25 mg/kg
Tetrabromodiphenyl ether	N.D.	25 mg/kg
Pentabromodiphenyl ether	N.D.	25 mg/kg
Hexabromodiphenyl ether	N.D.	25 mg/kg
Heptabromodiphenyl ether	N.D.	25 mg/kg
Octabromodiphenyl ether	N.D.	25 mg/kg
Nonabromodiphenyl ether	N.D.	25 mg/kg
Decabromodiphenyl ether	N.D.	25 mg/kg



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Tested Item(s)		Result		MDL
Tested Item(s)	002	007	009	MDL
Phthalates (DBP, BBP, DEHP, DI	BP)			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Res	sult	MDL
rested item(s)	010	011	MIDL
Phthalates (DBP, BBP, DEHP, DI	BP)		
Dibutyl phthalate (DBP)	ND	N.D.	50 mg/kg
CAS#:84-74-2	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50 mg/kg
CAS#:85-68-7	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	50 mg/kg
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	N.D.	50 mg/kg
CAS#:84-69-5	IN.D.	IN.D.	50 mg/kg

Tested Item(s)		Result		MDL
rested tem(s)	001	003	004	
Phthalates (DBP, BBP, DEHP, DI	BP)			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg



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Tested Item(s)	Result	Result MDL
Tested Tem(s)	006	
Phthalates (DBP, BBP, DEHP, DI	BP)	
Dibutyl phthalate (DBP)	ND	50 mg/kg
CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP)	ND	50 mg/kg
CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg
(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP)	N D	50 ma/lsa
CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL
Tested Item(s)	005	MIDL
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	25 mg/kg
Dibromobiphenyl	N.D.	25 mg/kg
Tribromobiphenyl	N.D.	25 mg/kg
Tetrabromobiphenyl	N.D.	25 mg/kg
Pentabromobiphenyl	N.D.	25 mg/kg
Hexabromobiphenyl	N.D.	25 mg/kg
Heptabromobiphenyl	N.D.	25 mg/kg
Octabromobiphenyl	N.D.	25 mg/kg
Nonabromobiphenyl	N.D.	25 mg/kg
Decabromobiphenyl	N.D.	25 mg/kg



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Tested Item(s)	Result	MDL
rested item(s)	005	MIDL
Polybrominated Diphenyl Ethers (PBI	DEs)	
Monobromodiphenyl ether	N.D.	25 mg/kg
Dibromodiphenyl ether	N.D.	25 mg/kg
Tribromodiphenyl ether	N.D.	25 mg/kg
Tetrabromodiphenyl ether	N.D.	25 mg/kg
Pentabromodiphenyl ether	N.D.	25 mg/kg
Hexabromodiphenyl ether	N.D.	25 mg/kg
Heptabromodiphenyl ether	N.D.	25 mg/kg
Octabromodiphenyl ether	N.D.	25 mg/kg
Nonabromodiphenyl ether	N.D.	25 mg/kg
Decabromodiphenyl ether	N.D.	25 mg/kg

Tested Item(s)	Result	Result
rested rem(s)	005	WIDE
Phthalates (DBP, BBP, DEHP, DI	BP)	
Dibutyl phthalate (DBP)	N D	50 mg/kg
CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg
CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg
(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	50 mg/kg
CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL		
rested Hem(s)	001	003	004	WIDL
Beryllium (Be)	N.D.	N.D.	N.D.	10 mg/kg

Tested Item(s)	Result	MDL
rested rem(s)	006	MIDE
Beryllium (Be)	N.D.	10 mg/kg



		Result 005			
Tested Item(s)					
Beryllium (Be)		N.D.		10 mg/kg	
Tested Item(s)		Result		MDL	
	007		011		
Beryllium (Be)	N.D.		N.D.	10 mg/kg	
	<u>.</u>				
Tested Item(s)		Result		MDL	
rested rtem(s)	001	003	004	MIDL	
Antimony (Sb)	N.D.	N.D.	N.D.	10 mg/kg	
Tested Item(s)	Result		MDL		
rested rem(s)		006		MDL	
Antimony (Sb)		N.D.		10 mg/kg	
	·				
Tested Item(s)		Result		MDL	
residu rum(s)	002	007	009	WIDE	
Antimony (Sb)	N.D.	N.D.	6190 mg/kg	10 mg/kg	

Tested Item(s)	Res	sult	MDL
rested rem(s)	010 011		MIDL
Antimony (Sb)	N.D.	N.D.	10 mg/kg

Tested Item(s)	Result	MDL	
resteu rtein(s)	005	VIDE	
Antimony (Sb)	N.D.	10 mg/kg	

Tested Item(s)		Result	MDL	
rested item(s)	002	003	007	MIDL
Fluorine (F)	N.D.	N.D.	N.D.	10 mg/kg
Chlorine (Cl)	N.D.	N.D.	N.D.	10 mg/kg
Bromine (Br)	N.D.	N.D.	N.D.	10 mg/kg



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Tested Item(s)		Result	MDL	
rested rem(s)	009	010	011	MIDL
Fluorine (F)	N.D.	N.D.	N.D.	10 mg/kg
Chlorine (Cl)	140 mg/kg	234 mg/kg	N.D.	10 mg/kg
Bromine (Br)	7879 mg/kg	N.D.	3196 mg/kg	10 mg/kg

Tested Item(s)	Result	MDL	
Tested Item(s)	010	MIDL	
Perfluorooctanoic Acid (PFOA)	N.D.	0.010 mg/kg	

Tested Item(s)	Result	MDL	
rested ftem(s)	010	WIDL	
Perfluorooctane Sulfonates	N.D.	0.010 mg/kg	
(PFOS)	N.D.	0.010 mg/kg	

Tested Item(s)	Result			MDL
Testeu Item(s)	001	002	003	MIDL
Phthalates				
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	N.D.	N.D.	50 mg/kg
Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg

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Tested Item(s)	Result			MDL
rested item(s)	001	002	003	WIDL
Phthalates				
Di-isononyl phthalate (DINP)	N.D.	N.D.	N.D.	50 mg/kg
CAS#:28553-12-0,68515-48-0	1,12,	1,12,	1,12,	30 mg/ng
Diisopentylphthalate (DIPP)	N.D.	N.D.	N.D.	50 mg/kg
CAS#:605-50-5	IV.D.	IV.D.	IV.D.	30 mg/kg
Di-n-octyl phthalate (DNOP)	N.D.	N.D.	N.D.	50 mg/kg
CAS#:117-84-0	N.D.	N.D.	IV.D.	30 mg/kg
N-Pentyl-isopentyl phthalate	N.D.	N.D.	N.D.	100 mg/kg
(NIPP) CAS#:776297-69-9	IN.D.	N.D.	N.D.	100 mg/kg

Tested Item(s)		Result		MDL
Tested Item(s)	004	005	006	WIDL
Phthalates				
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	N.D.	N.D.	50 mg/kg
Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Diisopentylphthalate (DIPP) CAS#:605-50-5	N.D.	N.D.	N.D.	50 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	50 mg/kg
N-Pentyl-isopentyl phthalate (NIPP) CAS#:776297-69-9	N.D.	N.D.	N.D.	100 mg/kg



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Tested Item(s)		Result		MDL
	007	009	010	MIDL
Phthalates				
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	N.D.	N.D.	50 mg/kg
Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Diisopentylphthalate (DIPP) CAS#:605-50-5	N.D.	N.D.	N.D.	50 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	50 mg/kg
N-Pentyl-isopentyl phthalate (NIPP) CAS#:776297-69-9	N.D.	N.D.	N.D.	100 mg/kg

Tested Item(s)	Result	MDL
Tested Item(s)	011	MIDL
Phthalates		
Butyl benzyl phthalate (BBP)	ND	50 mg/kg
CAS#:85-68-7	N.D.	
Bis(2-methoxyethyl) phthalate	N D	50 mg/kg
(DMEP) CAS#:117-82-8	N.D.	
Di-(2-ethylhexyl) phthalate	N D	50
(DEHP) CAS#:117-81-7	N.D.	50 mg/kg



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Tested Item(s)	Result	MDL
resteu rtem(s)	011	- MDL
Phthalates		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	50 mg/kg
Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
Diisopentylphthalate (DIPP) CAS#:605-50-5	N.D.	50 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	50 mg/kg
N-Pentyl-isopentyl phthalate (NIPP) CAS#:776297-69-9	N.D.	100 mg/kg

Material Category	Substances/CAS Numbers	Results				
		001	002	003	004	005
Asbestos (CAS 1332-21-4)	Chrysotile/12001-29-5	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Crocidolite/12001-28-4	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Amosite /12172-73-5	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Tremolite Asbestos/ 77536-68-6	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Actinolite Asbestos /77536-66-4	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Anthophyllite Asbestos/77536-67-5	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.



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Material Category	Substances/CAS Numbers	Results				
		006	007	009	010	011
Asbestos (CAS 1332-21-4)	Chrysotile/12001-29-5	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Crocidolite/12001-28-4	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Amosite /12172-73-5	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Tremolite Asbestos/ 77536-68-6	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Actinolite Asbestos /77536-66-4	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.
	Anthophyllite Asbestos/77536-67-5	N.A.D.	N.A.D.	N.A.D.	N.A.D.	N.A.D.

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Cupreous metal wire
2	002	White liquid(dry weight)*3
3	003	Silvery metal
4	004	Silvery metal
5	005	Silvery plating
6	006	Cupreous metal
7	007	Chip
8	009	Dark grey solid
9	010	Silvery ink*4
10	011	Brown paste*4



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

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- -▼The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10 µg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
- -N.A.D.= No Asbestos Detected(<Limit of detection)
- -*=According to the client's statement, the material of the sample(s) fall into exemption items 7(a) according to EU Directive 2011/65/EU :Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- -*1=According to the client's statement, lead mainly comes from the high melting temperature type solders.Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead) is exempted from the restriction, with reference to EU Directive 2011/65/EU annex III Exemption Applications 7(a).
- -*²=According to the client's statement, the material of the sample(s) fall into exemption items 7(a) according to EU Directive 2011/65/EU: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- -*3= The sample was tested after drying for 2 hours under 105 °C.

According to the client's statement, the reasons for the multiple information in the "sample information" of this report may include (but are not limited to): supplying to different buyers, being sold to different countries or regions, former names, or mixtures of several substances.

-*4=According to the customer's statement, the curing conditions for the product sent for testing are as follows: first, 105°C for 2 hours, then 180°C for 2 hours

Explanation (Asbestos)

- -The limit of detection of this method is defined as the detection and identification of one fibre or fibre bundle in the amount of sample examined. With appropriate matrix reduction procedures that are tailored to the nature of the sample, the limit of detection can be significantly lower than 0.1%
- -The estimated concentration(s) of the asbestos varieties detected in ranges is/are as follows: Trace (<0.1%), 0.1%-5%, 5%-50%, and 50%-100%.
- -Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarized light microscopy. These materials often contain milled asbestos with too small fibre diameter and length to be detected.
- -X-ray diffraction analysis cannot discriminate the particle shape in analytical sample and detects not only asbestos of fibrous form but also non-fibrous minerals related to asbestos such as serpentine minerals and/or amphibole minerals if they coexist.
- -CTI Asbestos Testing Center has established strict quality assurance and supervision procedures in accordance with international standard. And the laboratory participates in the AIMS* every year (three times per year) to confirm our proficiency.
- *The Asbestos in Materials Scheme (AIMS) is an international inter-laboratory testing scheme, and it is managed by the Health and Safety Laboratory (HSL) which on behalf of the Health and Safety Executive (HSE) of UK.

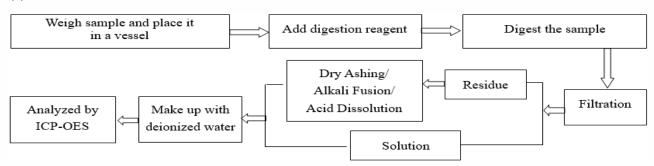


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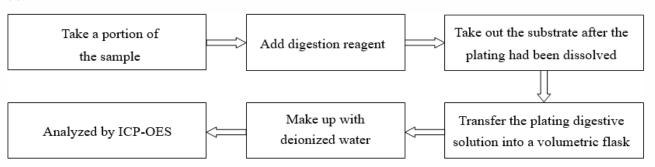
Test Process

1. Lead (Pb), Cadmium (Cd), Chromium(Cr)

(1) IEC 62321-5:2013

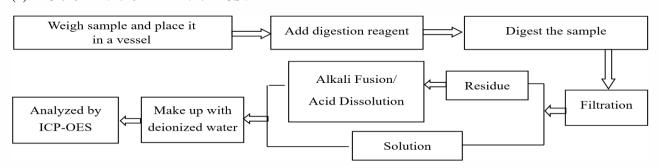


(2) Refer to IEC 62321-5:2013

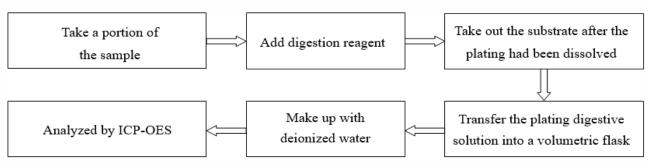


2. Mercury (Hg)

(1) IEC 62321-4:2013+AMD1:2017 CSV



(2) Refer to IEC 62321-4:2013+AMD1:2017 CSV



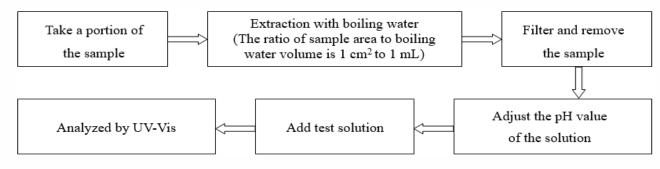


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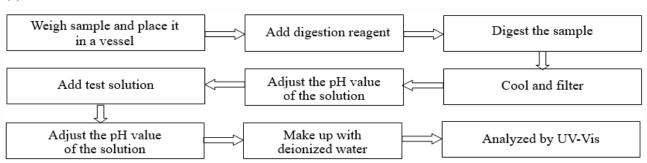
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3. Hexavalent Chromium (Cr(VI))

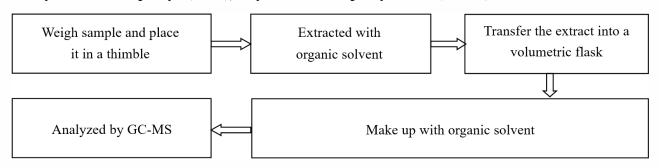
(1) IEC 62321-7-1:2015



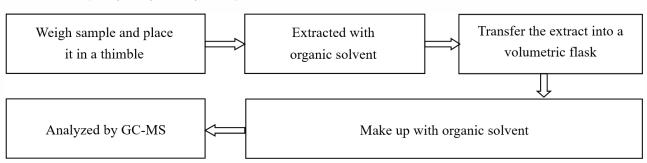
(2) IEC 62321-7-2:2017



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)



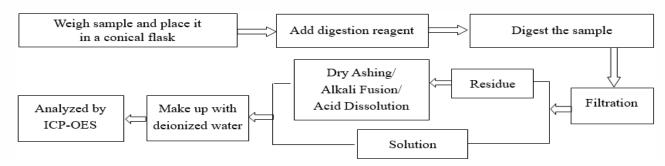


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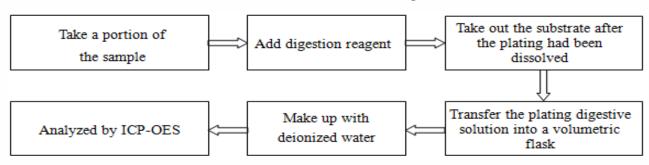
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6. Beryllium(Be), Antimony(Sb)

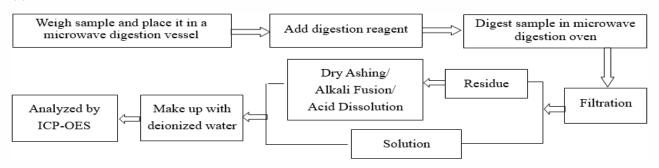
(1) Refer to US EPA 3050B:1996 & US EPA 6010D:2018



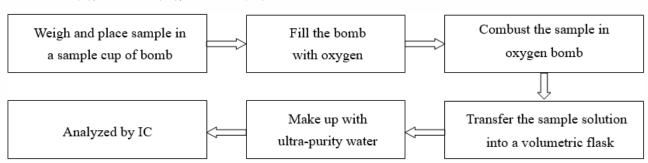
(2) Refer to US EPA 3050B:1996 & US EPA 6010D:2018 (Plating)



(3) Refer to US EPA 3052:1996 & US EPA 6010D:2018



7. Fluorine (F), Chlorine (Cl), Bromine (Br)

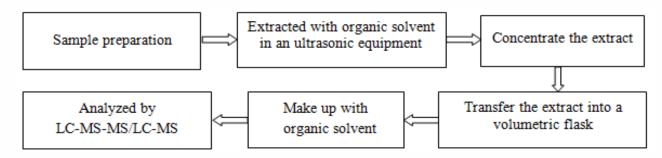




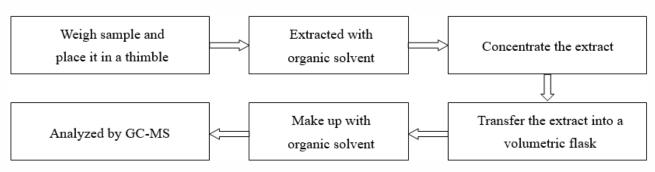
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8. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)

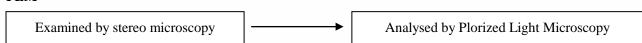


9. Phthalates

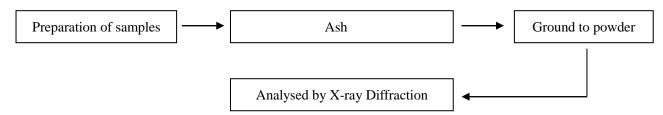


10. Asbestos

PLM



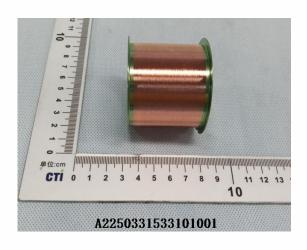
XRD





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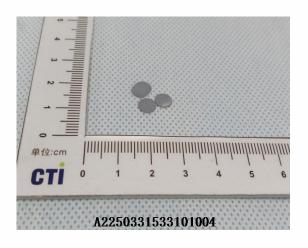
Photo(s) of the sample(s)

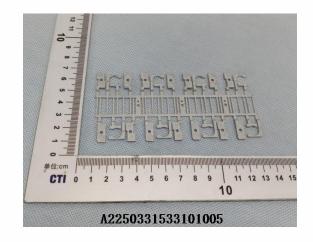








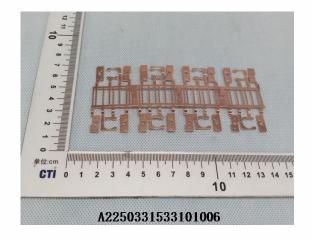


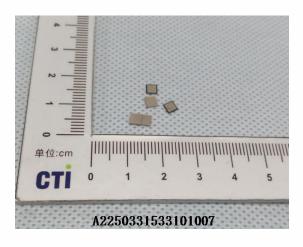




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Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full;
- 6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***



Appendix

Client Reference Information

0402/0603/1.5KE/A405/AKM/BDB/BR-10/BR-15W/BR-3/BR-6/BR-8/ BKM/CSP/D2PAK/D3K/DB/BDB/DBLS/DBS/DFN5x6EP/DFN0603/DFN0603-2L/ DFN1006/DFN1006-2/2L/DFN1006-3/3L/DFN1610/DFN2.6*2.6-10L/DFN2×2-3L/ DFN2510/DFN2X2-6L/DFN3.3X3.3/DFN3x3/DFN4120-10L/DFN5x6/DFN5X6-8L/ DFNWB0.6*0.3/DI5/DO15/DO201AD/DO-213AB/DO218/DO218AB/ DO277/DO34/DO35/DO41/DO41G/DPAK/ESOP-8/HR-MS/HVM/HVML/HVP/ ITO220/ITO220A/ITO220AC/KBL/KBP/KBPG/LL34/LL41/LMDS/LFPAK5X6/MB-F/MBM/ MDA/MDC/MDF/MDK/MDS/MDSJ/MELF/MICRO-MELF/MINI-MELF/MP-15/MP-15W/MP-25/ MP-25W/MP-35/MP-35W/MP-40/MP-50/MP-50W/MSBM/MSBS/MSOP10/MT-35/MT-35W/ PDFN5X6P/PPAK3x3/PPAK5X6/PQFN2X2/PDFN2X2/R1/R10000H/R12000H/R10KH/R12KH/ R16KH/R2/R3/R30KH/R4/R5/R6/R7/R8KH/R9KH/RB-15/RBU/RBUH/RC-2/RS1/RS1L/ R\$10M/R\$10ML\$\rangle R\$15M\rangle R\$10M\rangle R\$20M\rangle R\$25ML\$\rangle R\$2L\rangle R\$2M\rangle R\$20ML\$\rangle R\$25ML\$\rangle R\$2L\rangle R\$2M\rangle R\$20ML\$\rangle R\$25ML\$\rangle R\$2ML\$\rangle R\$2M\rangle R\$20ML\$\rangle R\$25ML\$\rangle R\$2ML\$\rangle R RS30M/RS35M/RS35TB/RS40M/RS485/RS4L/RS4M/RS50M/RS6/RS6L/RS60M/RS6M/ RS-6MLS/RS8/RS8L/RS8M/RSBF/S35VB/S50VB/SBR/SC-75/SOT416/SKBPC/ SLDBS/SlimPAQ/SlimPAQ-1/SLMDS/SLPDS/SMA (DO214AC) /SMAF/SMA-S/ SMB (DO214AA) /SMBF/SMB-F/SMC (DO214AB) / SMAHE-C/SMX/SOD123/SOD123F/SOD123F(L)/SOD123F(L)-1/SOD123FH/ SOD123FL/SOD123S/SOD123ST/SOD123FL-1/SOD323/SOD323F/SOD523/SOD523F/ SOD723/SOD80C/SOD882/SOD923/SOF2-4/SOP-8L/SOP-14/SOP-8/SOF2-4/SOT89/ SOT143/SOT223/SOT223-2L/3L/SOT227/SOT23/SOT23-3L/SOT23-3S/SOT23-5/SOT236/ SOT23-6/6L/SOT26/SOT323/SOT323FL/SC70/SOT346/SOT353/SOT363/SOT363-6L/ SOT523/SOT563/SOT723/SOT883/SOT89/SOT89-3L/SSOD923 /SSOT-6L/Sub-SMA/ TO126/TO263/TO220/TO220-3L/TO220A/TO220A-1/TO220AB/TO220AC/ TO220C/TO220F/TO220FAC/TO247/TO247-3L/TO247S/TO251/TO252/TO252-5L/ TO3P/TO92L/TO92S/TOLL9/TOLL-8L/TOFN16/TSOT23-5/TDFN2x2-6L/TSOT23-6L/ TSSOP14/TSSOP-8/TO126/TO126F/TO262/TO252-4L/TO-3P/UDFN-3L/ULBF/WBFBP-02C/WOM/ WLCSP-10L/X3DFN2/MBF-T/UMBT/ABS/LBF



Client Reference Photo (Non-tested sample)





Statement:

- 1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. The Appendix Information is/are the supplement(s) for the Report A2250331533101013.