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CENTRE TESTING INTERNATIONAL



Company	Name
shown on	Report

GUANGZHOU TSUNAMI INDUSTRIAL EQUIPMENT CO.,LTD.

NO.58 BUILDING 22,1ST FLOOR,GAOZENG STREET,RENHE TOWN,BAIYUN DISTRICT,

GUANGZHOU,CHINA 510470

************	**********	************

Conclusion

Address

 Tested Sample
 According to standard/directive
 Result

 Submitted Sample
 RoHS Directive 2011/65/EU with amendment (EU) 2015/863
 PASS

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment(EU) 2015/863.

Hill Zheng Technical Manager

g International Group Co.,Ltd.

Jun. 13, 2023

No. R177731242

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Date



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 Report Content

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

Product Name rotomolded cases

Product Part No. R493231 Sample Received Date May 24, 2023

Testing Period May 24, 2023 to Jun. 13, 2023

Test Requested With reference to RoHS Directive 2011/65/EU with amendment (EU) 2015/863, to conduct

verification test for Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) and Phthalates (Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP), Di-2-ethylhexyl phthalate (DEHP),

Diisobutyl phthalate (DIBP)) in the submitted samples.

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Test Method

A. Screening limits for regulated elements according to IEC 62321-3-1:2013 (Unit: mg/kg)

Element	Polymers	Metals	Composite material	
Pb	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ) \leq OL	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ) \leq OL	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	
Cd	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>	
Hg	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ) \leq OL	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ) \leq OL	BL \leq (500-3 σ) $<$ X $<$ (1500+3 σ) \leq OL	
Cr	BL≤(700-3σ)< X	BL≤(700-3σ)< X	BL≤(500-3σ)< X	
Br	BL≤(300-3σ)< X	N/A	BL≤(250-3σ)< X	

B. Screening limits for Phthalates

Test Item(s)	Screening limits (Unit: mg/kg)
Dibutyl phthalate(DBP)	BL≤600 <x< td=""></x<>
Benzylbutyl phthalate(BBP)	BL≤600 <x< td=""></x<>
Di-2-ethylhexyl phthalate(DEHP)	BL≤600 <x< td=""></x<>
Diisobutyl phthalate(DIBP)	BL≤600 <x< td=""></x<>

C. Chemical Test

Tested Item(s)	Test Method	Measured Equipment(s)	MDL	Limit	
Load (Dh.)	IEC 62321-5:2013	ICP-OES	10 mg/kg	1000 ma/lsa	
Lead (Pb)	Refer to IEC 62321-5:2013	ICF-OES	10 mg/kg	1000 mg/kg	
C-during (Cd)	IEC 62321-5:2013	ICP-OES	10 mg/kg	100 /	
Cadmium (Cd)	Refer to IEC 62321-5:2013	ICP-UES	10 mg/kg	100 mg/kg	
Manager (IIa)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	10 mg/kg	1000 mg/kg	
Mercury (Hg)	Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICP-UES	10 mg/kg		
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017	UV-Vis	20 mg/kg	1000 ma/lra	
Hexavalent Chronilum (Cr(V1))	IEC 62321-7-1:2015	U V-VIS	$0.10 \mu\text{g/cm}^2 (\text{LOQ})$	1000 mg/kg	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	100 mg/kg	1000 mg/kg	
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	100 mg/kg	1000 mg/kg	
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg	1000 mg/kg for each	

Remark:

- BL = Under the screening limit
- OL = Above the screening limit
- X = The range of needing to do further testing
- 3σ = The reproducibility of analytical instruments
- N/A = Not applicable
- LOD = Detection limit
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²



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Test Result(s)

CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
		D	Hg	BL	/	/		
		Brown paper	Cr(Cr(VI))	BL	/	/		
1	-	board with	Br(PBBs&PBDEs)	BL	/	/	PASS	May 24, 2023
		black	DBP	N/A	BL	/		
		printing	BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/	_	
		Cupreous	Pb	BL	/	/		May 24, 2023
			Cd	BL	/	/	PASS	
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
2	-		Br(PBBs&PBDEs)	N/A	/	/		
		metal	DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
3 -			Cr(Cr(VI))	IN	/	N.D.▼		
	-	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 2023
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		

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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
4	5	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 2023
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
		Silvery metal	Cd	BL	/	/		May 24, 2023
			Hg	BL	/	/	-	
			Cr(Cr(VI))	IN	/	N.D.▼	PASS Mag	
6	8		Br(PBBs&PBDEs)	N/A	/	/		
			DBP	N/A	/	/		
			BBP	N/A	/	/		-
			DEHP	N/A	/	/	-	
			DIBP	N/A	/	/	-	
			Pb	BL	/	/		
			Cd	BL	/	/	-	
			Hg	BL	/	/	-	
			Cr(Cr(VI))	IN	/	N.D.▼		
7	-	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 202
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/	-	



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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
	10.11		Cr(Cr(VI))	IN	/	N.D.▼		
9	10, 11,	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 2023
	16, 18, 19		DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
		Silvery metal	Pb	BL	/	/		May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
12	-		Br(PBBs&PBDEs)	N/A	/	/	PASS	
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/	-	
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
13	20	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 2023
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		



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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
14	-	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 2023
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/	-	
			Pb	BL	/	/		May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
15	-	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
17	-	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 2023
			DBP	N/A	/	/	1	
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		



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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
21	-	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 202
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/	-	
		Golden metal	Pb	OL	/	31220#1		May 24, 2023
			Cd	BL	/	/	-	
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
22	-		Br(PBBs&PBDEs)	N/A	/	/	PASS	
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
		Black foam	Cr(Cr(VI))	BL	/	/		
23 -	-	with	Br(PBBs&PBDEs)	BL	/	/	PASS	May 24, 202
		adhesive	DBP	N/A	BL	/		
		paste	BBP	N/A	BL	/	-	
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		



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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
		Black	Hg	BL	/	/		
		silicone	Cr(Cr(VI))	BL	/	/	-	
24	-	rubber with	Br(PBBs&PBDEs)	BL	/	/	PASS	May 24, 202
		adhesive	DBP	N/A	BL	/		
		paste	BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		May 24, 2023
			Cd	BL	/	/		
		Black sponge	Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
25	26, 27		Br(PBBs&PBDEs)	BL	/	/	PASS May 24, 2	
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
28 2	29	29 Black plastic	Br(PBBs&PBDEs)	BL	/	/	PASS	May 24, 202
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/	-	
			DIBP	N/A	BL	/		



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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
30	-	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 2023
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
		Silvery metal	Pb	BL	/	/		May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
31	-		Br(PBBs&PBDEs)	N/A	/	/	PASS	
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
32 -	-	- Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	May 24, 2023
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/	-	
			DIBP	N/A	/	/		



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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
33	-	Black metal	Pb	BL	/	/	PASS	May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
			Br(PBBs&PBDEs)	N/A	/	/		
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
34	-	Transparent yellow plastic	Pb	BL	/	/	PASS	May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
			Br(PBBs&PBDEs)	BL	/	/		
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
35	-	Semi- transparent silicone rubber	Pb	BL	/	/	PASS	May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
			Br(PBBs&PBDEs)	BL	/	/		
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		



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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
	37	Black plastic	Pb	BL	/	/	PASS	May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
36			Br(PBBs&PBDEs)	BL	/	/		
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
	-	Silvery metal	Pb	BL	/	/	PASS	May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
38			Br(PBBs&PBDEs)	N/A	/	/		
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
	-	Black plastic	Pb	BL	/	/	PASS	May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
39			Br(PBBs&PBDEs)	IN	/	N.D.		
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		



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CTI Sample ID	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
	-	Semi- transparent silicone rubber	Pb	BL	/	/	PASS	May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
40			Cr(Cr(VI))	BL	/	/		
			Br(PBBs&PBDEs)	BL	/	/		
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
41	-	Black plastic	Pb	BL	/	/	PASS	May 24, 2023
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
			Br(PBBs&PBDEs)	IN	/	N.D.		
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		

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Remark:

- N.D. = Not Detected (<MDL or LOQ)
- MDL = Method Detection Limit
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%
- / = Not tested
- IN = Uncertain, Further chemical test
- N/A = Not applicable
- BL = Under the screening limit
- OL = Further chemical test will be conducted while the result is above the screening limit.
- 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.
- 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.
- #1According to the client's statement, the material of the sample(s) fall into exemption items 6(c) according to EU Directive 2011/65/EU: Copper alloy containing up to 4 % lead by weight.
- Exemption list please see the official website
 https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX:32011L0065
- According to the client's statement, the samples in the column "Same material No." are of the same as the "CTI Sample ID".

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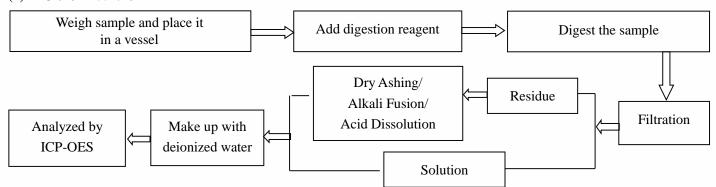


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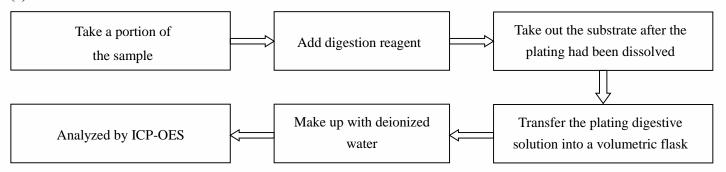
Test Process

1. Lead (Pb), Cadmium (Cd)

(1) IEC 62321-5:2013

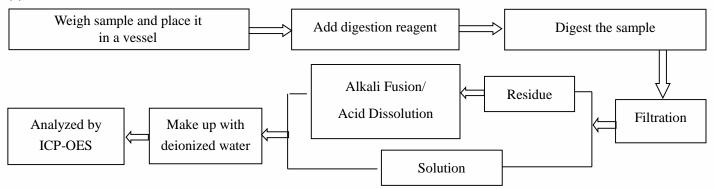


(2) Refer to IEC 62321-5:2013

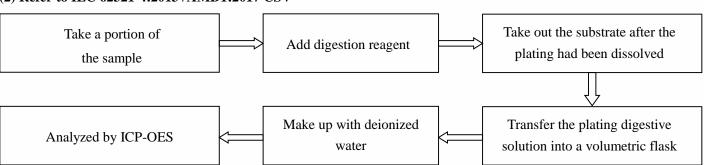


2. Mercury (Hg)

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



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

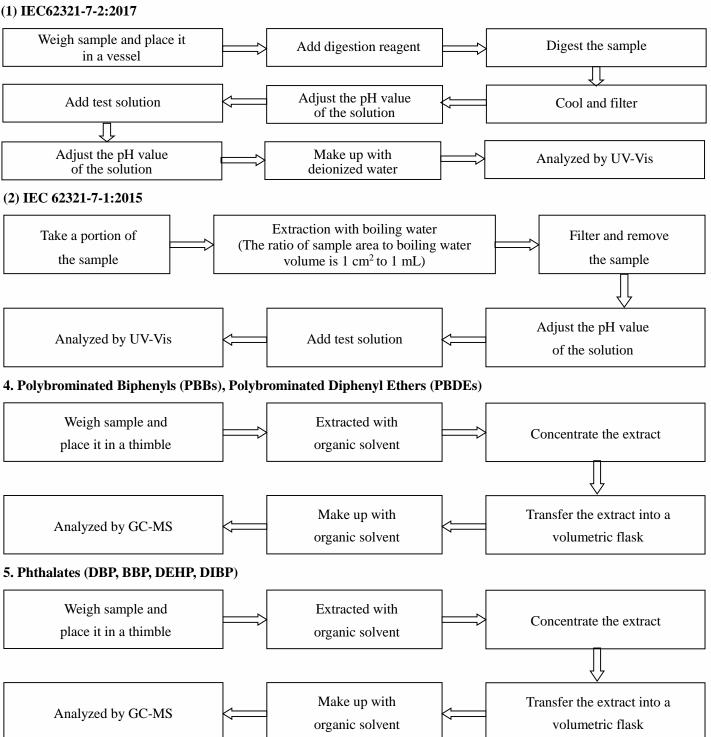




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3. Hexavalent Chromium (Cr(VI))

(1) IEC62321-7-2:2017





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Photo(s) of the sample(s)

Final Product Final Product









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5(Client Reference Photo(Non-tested sample))







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8(Client Reference Photo(Non-tested sample))





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10(Client Reference Photo(Non-tested sample))







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11(Client Reference Photo(Non-tested sample))







13 14





15 16(Client Reference Photo(Non-tested sample))







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20(Client Reference Photo(Non-tested sample))

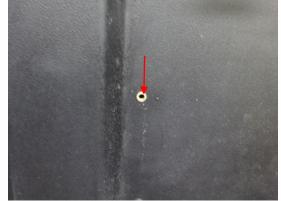


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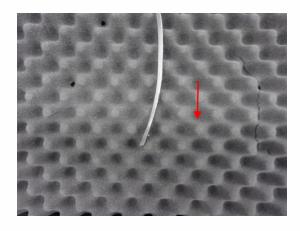


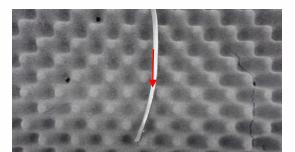
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



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27(Client Reference Photo(Non-tested sample))









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29(Client Reference Photo(Non-tested sample))

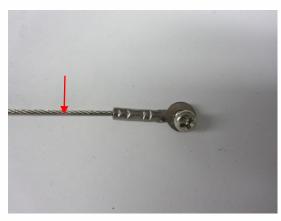
30



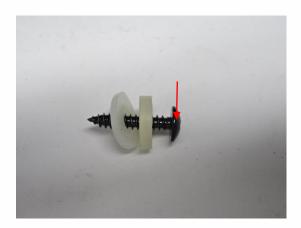


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37(Client Reference Photo(Non-tested sample))

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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. Without written approval of CTI, this report can't be reproduced except in full;
- 5. 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

同系列产品: R312824, R422815, R493231, R523622, R534338, R724832, R735340,R796746, R804633, R764646,R1127254, R1606029, R1763138,R1604627, R806050, R606035, Field Desk.

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 A2230240731103.