# TCT 通测检测 TESTING CENTRE TECHNOLOGY Test Report

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Applicant:	SHENZHEN YAI		CO.,LTD.	
Address:	3rd Floor G bui	ding, Gangzhilong Scier	nce Park, Qing	long Road No.6,
	LongHua Distri	ct, Shenzhen, China		
The following sample v	vas submitted an	d identified by/on behalf	of the client as	S:
Sample Name: Model No.:	Oscillator SMD	7050 2016 YSO211SR/ST/SK 2520 YSO221SR/ST/SK 3225 YSO321SR/ST/SK		
	Oscillator SMD Oscillator SMD TC (VC) Oscilla			
Trade Mark:	YXC			
Sample Received Date:	2020.01.13			
Testing Period:	2020.01.13—20	20.01.17		
Ś	<ol> <li>As specified Bromine(Br), loo</li> <li>As specified Hydrocarbons (</li> </ol>	P, DIBP content(s) in the s d by client, to determine th dine(I) contents in the sub d by client, to determine th PAHs) content in the subm	e Fluorine(F), C mitted sample. e Polycyclic Arc	chlorine(Cl),
Test Method:		he following page(s).		
Test Result(s): Conclusion:	<ol> <li>Base upon comply with the RoHS Directive</li> <li>Base upon Chlorine(Cl), B requirement.</li> </ol>	the following page(s). the performed tests by e limits as set by Directive 2011/65/EU (RoHS 2.0) A the performed tests by s romine(Br) comply with	e (EU) 2015/863 nnex II. submitted samp standard IEC/	B - Amendment of EU le, the test results of EN 61249-2-21:2003
	PAHs comply v	the performed tests by s with entry 50 of annex > its amended regulation (E	VII to (EC) N	o.1907/2006 REACH
Checked by Noel Yin			ed for and on be film Sho	ehalf of TCT
Noel Yin			Kim Zhang Technical Man	

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**Test Results:** 

### 1. Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP Content(s)

			Unit mg/kg	Limit	Result	
Tested Item(s)	Test Method/Instrument	MDL				
Lead(Pb)	IEC62321-5:2013/ICP-OES	2		1000	N.D.	
Cadmium(Cd)	IEC62321-5:2013/ICP-OES	2	mg/kg	100	N.D.	
Mercury(Hg)	62321-4:2013+AMD1:2017 /ICP-OES	2	mg/kg	1000	N.D.	
Hexavalent Chromium(Cr(VI))	IEC62321-7-2:2017/UV-VIS	2	mg/kg	1000	N.D.	
Sum of PBBs		-	mg/kg	1000	N.D.	
Monobromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Dibromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg		N.D.	
Tribromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	<u>(</u> 0)	N.D.	
Tetrabromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Pentbromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Hexabromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Heptabromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Octabromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Nonabromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	$(\mathcal{S})$	N.D.	
Decabromobiphenyl	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Sum of PBDEs	-	-	mg/kg	1000	N.D.	
Monobromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Dibromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Tribromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Tetrabromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg		N.D.	
Pentabromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg		N.D.	
Hexabromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Heptabromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Octabromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Nonabromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg	-	N.D.	
Decabromodiphenyl ether	IEC62321-6:2015/GC-MS	5	mg/kg		N.D.	
Dibutyl Phthalate (DBP)	IEC62321-8:2017/GC-MS	30	mg/kg	1000	N.D.	
Benzylbutyl Phthalate (BBP)	IEC62321-8:2017/GC-MS	30	mg/kg	1000	N.D.	
Bis-(2-ethylhexyl) Phthalate (DEHP)	IEC62321-8:2017/GC-MS	30	mg/kg	1000	N.D.	
Diisobutyl Phthalate (DIBP)	IEC62321-8:2017/GC-MS	30	mg/kg	1000	N.D.	

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#### **Specimen Description:**

- 1. Golden electronic component
- Note: MDL = Method Detection Limit
  - N.D. =Not Detected(<MDL)
  - 1mg/kg = 1ppm =0.0001%
  - "-"=Not Regulated
  - Sample for Pb, Cd and Hg testing was completely dissolved.



### 2. Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I) Contents

Test Item(s)	Test	MDL		Limit	Result(s)	
	Method/Equipment		Unit	Limit	1	
Fluorine (F)	BS EN 14582:2016/IC	50	mg/kg	(	N.D.	
Chlorine (Cl)	BS EN 14582:2016/IC	50	mg/kg	900	N.D.	
Bromine (Br)	BS EN 14582:2016/IC	50	mg/kg	900	N.D.	
lodine (I)	BS EN 14582:2016/IC	50	mg/kg	)	N.D.	
Total(CI+Br)			mg/kg	1500	N.D.	

### Specimen Description:

- 1. Golden electronic component
- Note: MDL = Method Detection Limit
  - N.D.= Not Detected(<MDL)
  - 1mg/kg = 1ppm = 0.0001%
  - "---"=Not Regulated

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#### 3. Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – PAHs Content

#### Method: With reference to AfPS GS 2019:01 PAK

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Cas No	Result(mg/kg)	MDL
lest tiell(s)	Cas No		(mg/kg)
1. Benzo(a)pyrene (BaP)	50-32-8	ND (S)	0.2
2. BeP (Benzo(e)pyrene)	192-97-2	ND	0.2
3. Benzo(a)anthracene (BaA)	56-55-3	ND	0.2
4. Chrysene (CHR)	218-01-9	ND (C)	0.2
5. Benzo(b)fluoranthene (BbF)	205-99-2	ND	0.2
6. Benzo[j]fluoranthene(BjF)	205-82-3	ND	0.2
7. Benzo(k)fluoranthene (BkF)	207-08-9	ND (C)	0.2
8. Dibenzo(a,h)anthracene (DBA)	53-70-3	ND	0.2

Maximum	Allowable Limit	Type 1	Rubber or plas	stic components of toys, inclu	ding activity
			toys, and child	care articles that come into d	irect contact
		$(\mathbf{c}^{\mathbf{s}})$	with the humar	n skin or the oral cavity:	
			0.5 mg/kg of a	ny of the listed PAHs.	
		Type 2	Rubber or plas	stic components of other artic	les that
			come into dire	ct contact with skin or the ora	I cavity:
			1 mg/kg of any	of the listed PAHs.	

#### **Specimen Description:**

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1. Golden electronic component

### Note: - mg/kg = milligram per kilogram

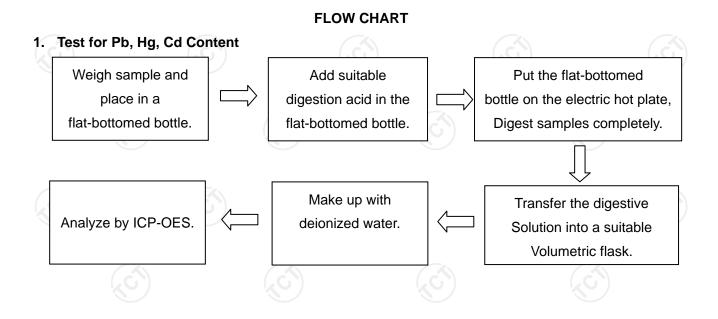
- 1% = 10000 mg/kg = 10000 ppm
  - MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)



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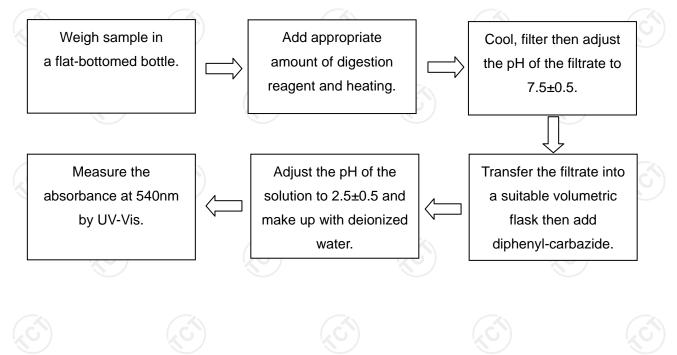
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Sample Material		Digestion Acid			
Glass		HNO3/HF	No.		
Plastic		H2SO4, H2O2, HNO3, HCI			
Others	( K	Any acid to total digestion.			
(C)	KC.			(201)	

### 2. Test for Chromium(VI) Content(Others)



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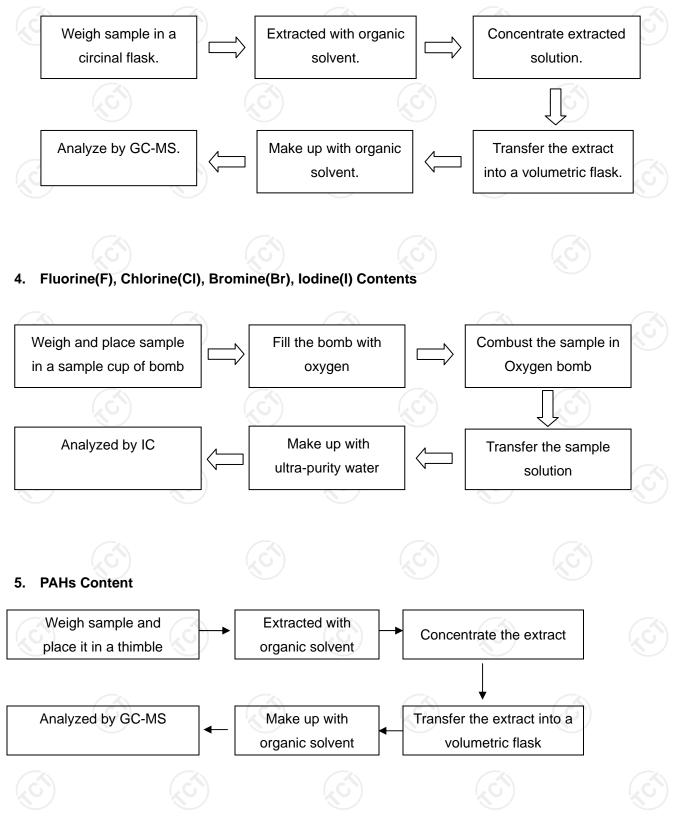


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### 3. Test for PBBs & PBDEs, DBP, BBP, DEHP, DIBP Content



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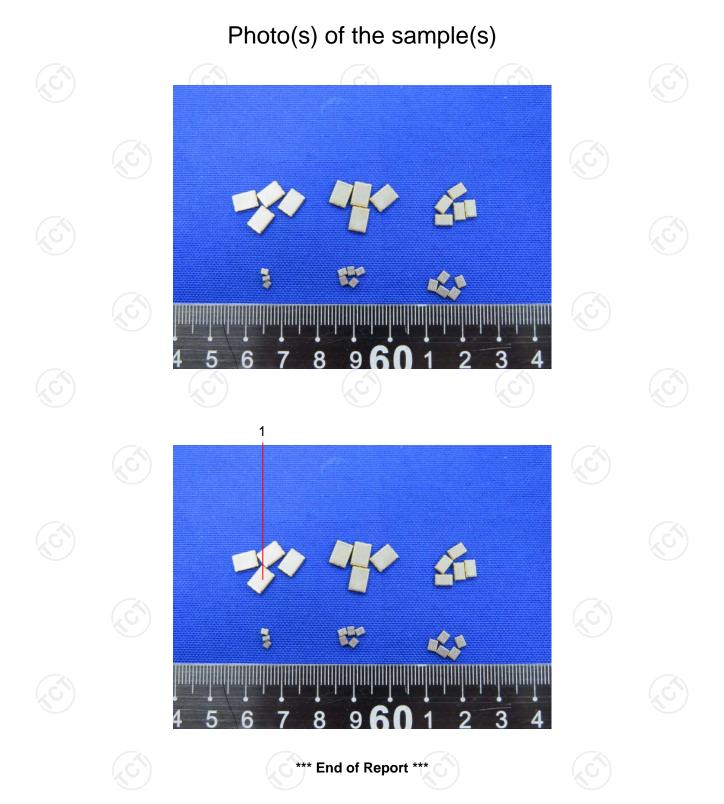
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