

Test Report

Report No. : TCT200509C016

Date : May. 13, 2020

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Applicant: SHENZHEN YANGXING TECHNOLOGY CO.,LTD.
Address: 3rd Floor G building, Gangzhilong Science Park, Qinglong Road No.6,
LongHua District, Shenzhen, China

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: Crystal 49US SMD
Model No.: Crystal 49U/49US/49SS/49X (DIP SMD)
Sample Received Date: 2020.05.09
Testing Period: 2020.05.09—2020.05.13
Test Requested: As specified by client, to determine the 18 Polycyclic Aromatic Hydrocarbons (PAHs) content(s) in the submitted sample(s).
Test Method: Please refer to the following page(s).
Test Result(s): Please refer to the following page(s).

Checked by



Noel Yin

Signed for and on behalf of TCT



Kim Zhang
Technical Manager



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Test Results:

18 Polycyclic Aromatic Hydrocarbons (PAHs) content(s)

Method: With reference to AfPS GS 2014:01 PAK

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

Test Items	CAS No.	MDL (mg/kg)	Content(s)		
			1	2	3
1. Benzo[a]pyrene (BaP)	50-32-8	0.2	N.D.	N.D.	N.D.
2. Benzo[e]pyrene (BeP)	192-97-2	0.2	N.D.	N.D.	N.D.
3. Benzo[a]anthracene (BaA)	56-55-3	0.2	N.D.	N.D.	N.D.
4. Benzo[b]fluoranthene (BbF)	205-82-3	0.2	N.D.	N.D.	N.D.
5. Benzo[j]fluoranthene(BjF)	207-08-9	0.2	N.D.	N.D.	N.D.
6. Benzo[k]fluoranthene (BkF)	53-70-3	0.2	N.D.	N.D.	N.D.
7. Chrysene (CHR)	218-01-9	0.2	N.D.	N.D.	N.D.
8. Dibenzo[a,h]anthracene (DBA)	53-70-3	0.2	N.D.	N.D.	N.D.
9. Benzo[g,h,i]perylene (BPE)	191-24-2	0.2	N.D.	N.D.	N.D.
10. Indeno[1,2,3-cd]pyrene (IPY)	139-39-5	0.2	N.D.	N.D.	N.D.
11. Acenaphthylene (ANY)	208-96-8	0.2	N.D.	N.D.	N.D.
12. Acenaphthene (ANA)	83-32-9	0.2	N.D.	N.D.	N.D.
13. Fluorene (FLU)	86-73-7	0.2	N.D.	N.D.	N.D.
14. Phenanthrene (PHE)	85-01-8	0.2	N.D.	N.D.	N.D.
15. Anthracene (ANT)	120-12-7	0.2	N.D.	N.D.	N.D.
16. Fluoranthene (FLT)	206-44-0	0.2	N.D.	N.D.	N.D.
17. Pyrene (PYR)	129-00-0	0.2	N.D.	N.D.	N.D.
18. Naphthalene (NAP)	91-20-3	0.2	N.D.	N.D.	N.D.
Sum of (ANY, ANA, FLU, PHE, ANT, FLT, PYR)	—	—	N.D.	N.D.	N.D.
Sum of 18 PAHs	—	—	N.D.	N.D.	N.D.

Specimen Description:

1. Black plastic
2. Silvery color electronic component
3. Silvery color metal pin

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- Note:
- MDL = Method Detection Limit
 - N.D.= Not Detected(<MDL)
 - mg/kg = ppm = parts per million
 - " "=Not Regulated
 - Results shown as N.D. are ignored in the sum calculation.
 - *The developed naphthalene result will always only show the momentary situation of the test sample at the time of measurement.
 - As received, the test portion of blue, gray coating is(are) less than 50 mg, therefore such components were not tested for PAHs content, as specified in the AfPS GS 2014:01 PAK requirement.

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According to GS Mark: Restraining maximum values for products:

Unit: mg/kg

Parameter	Category1	Category2		Category3	
	Materials intended to be put in the mouth, or materials of toy with intended to long-term skin contact(longer than 30 seconds)	Materials not covered by Category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact*		Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 second(short term skin contact)	
		Toys in the scope of 2009/48/EC	Other products in the scope	Toys in the scope of 2009/48/EC	Other products in the scope
Benzo(a)pyrene(BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene(BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene(BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene(BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene(BjFA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene(BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene(DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene(BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene(IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene(ANY) Acenaphthene(ANA) Fluorene(FLU) Phenanthrene(PHE) Anthracene(ANT) Fluoranthene(FLT) Pyrene(PYR)	Sum < 1	Sum < 5	Sum < 10	Sum < 20	Sum < 50
Naphthalene(Nap)	< 1	< 2		< 10	
Sum of 18 PAHs(EPA)	< 1	< 5	< 10	< 20	< 50

“*” “repeated short-term skin contact” from REACH Annex XVII No. 50 amendment (COMMISSION REGULATION (EU) No 1272/2013).

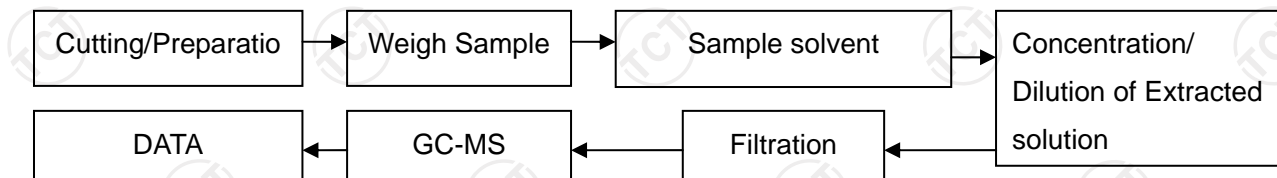
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Test Flow Chart



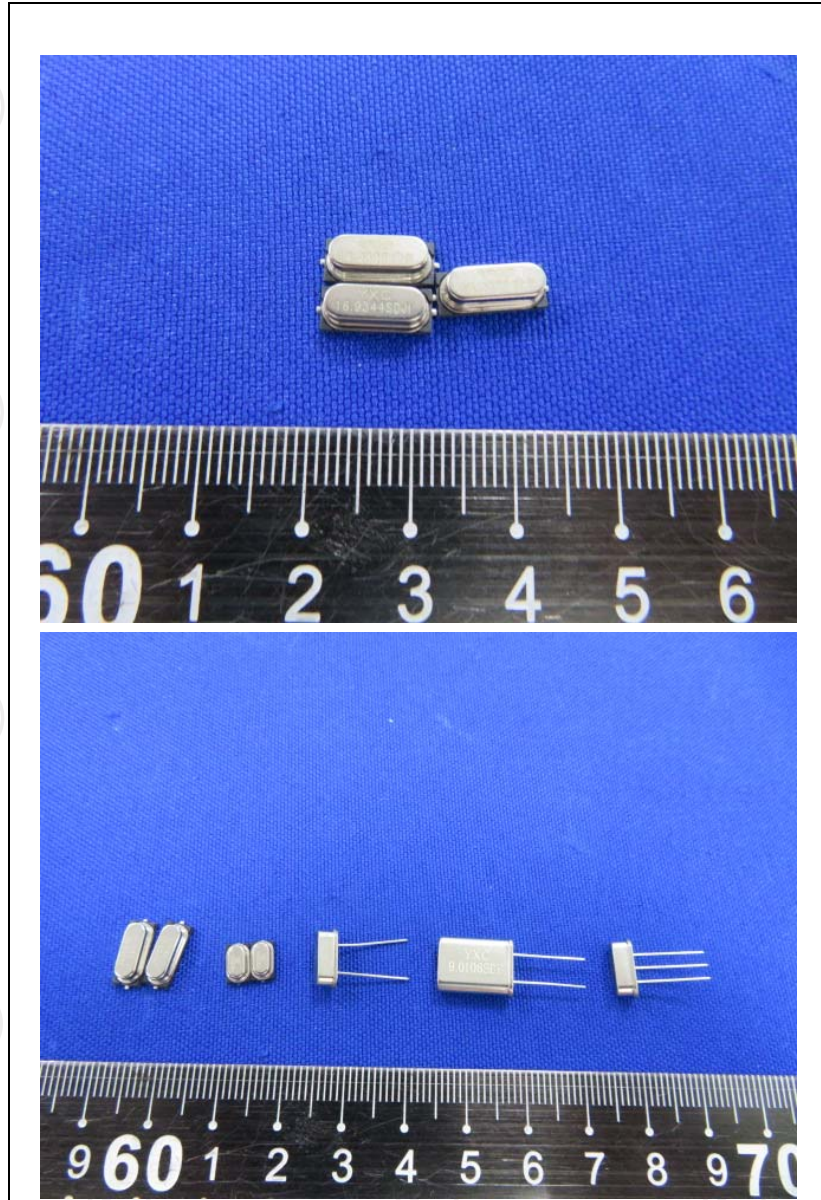
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Photo(s) of the sample(s)

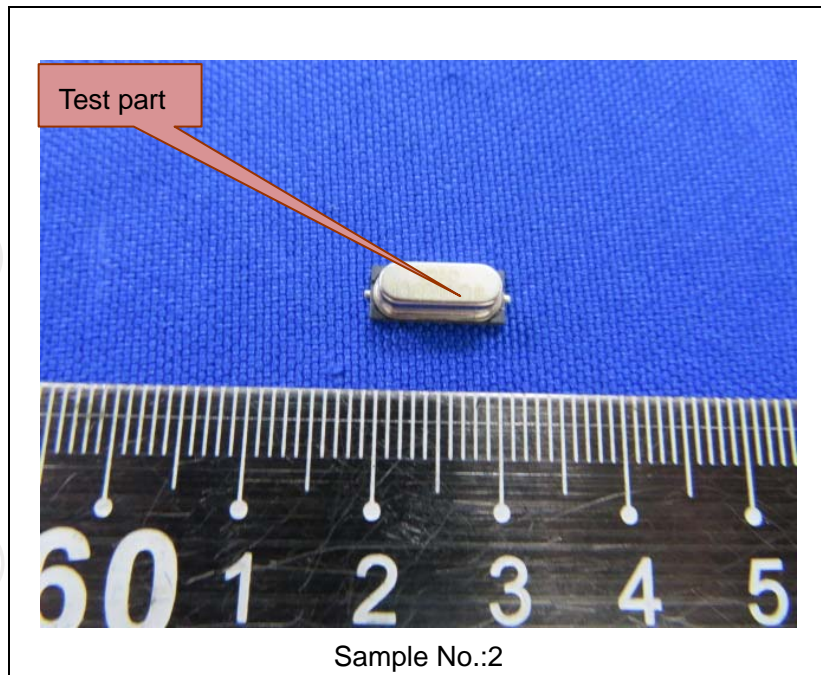
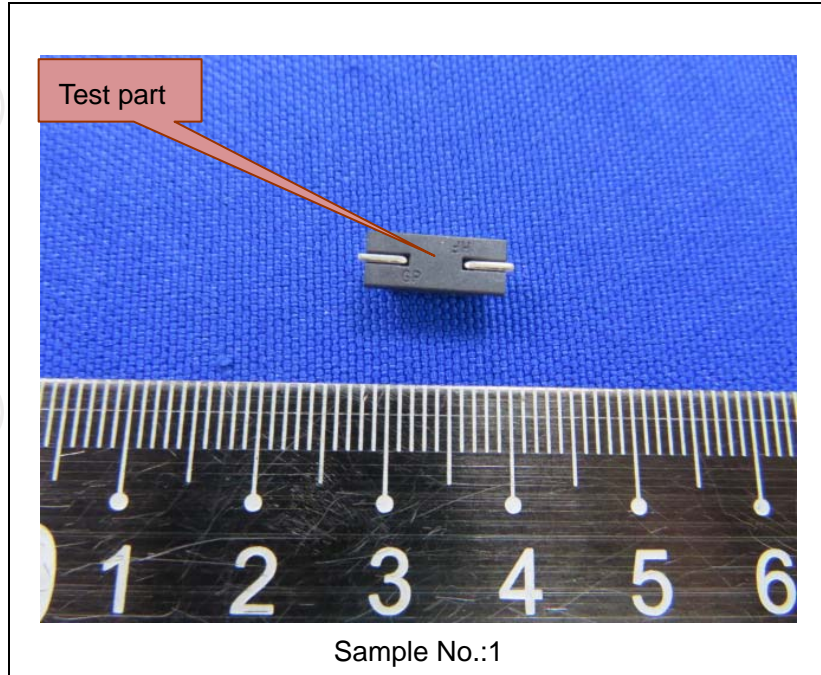


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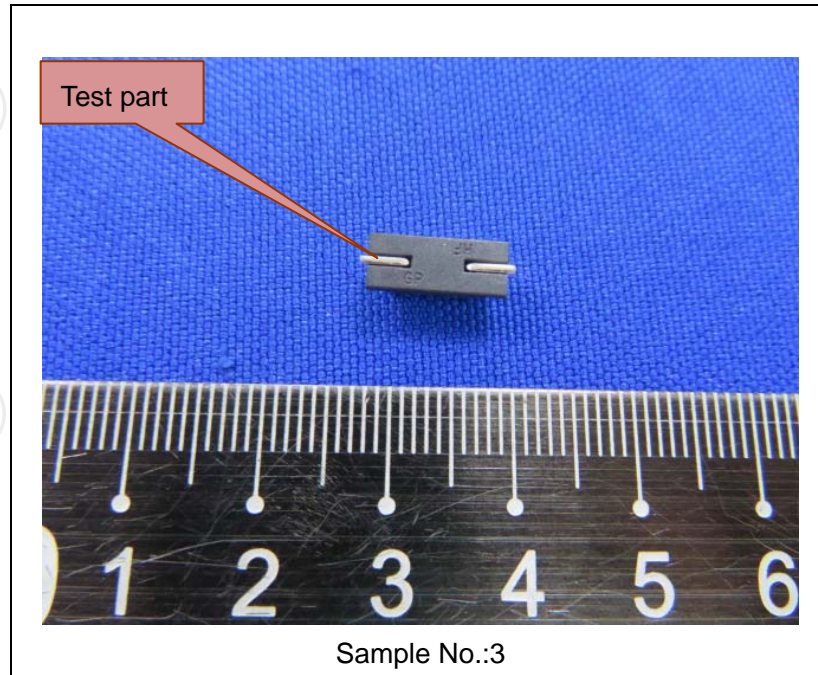


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***** End of Report *****

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