

No.: ETR21106958M01 Date: 05-Feb-2021

YANNIS ELECTRONICS CO., LTD. 8F-6, NO. 237, SEC. 1, DATONG RD., XIZHI DIST., NEW TAIPEI CITY 221 TAIWAN

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

Sample Name SMD TYPE CRYSTAL / SMD TYPE CRYSTAL OSCILLATORS / SMD TYPE

CRYSTAL FILTER

Style/Item No. PLEASE REFER TO PAGE 2

Sample Receiving Date 29-Jan-2021

Testing Period 29-Jan-2021 to 05-Feb-2021

Test Requested Testing item(s) is/are specified by client. Please refer to result table for

testing item(s).

Test Results Please refer to following pages.





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Style/Item No.:

1	Crystal	X11 , X21, X22 , X32 , X42 , MJ_ , MF_ , MQ_ , X2012 , X3215 , SSG
2		H21 , H22, H22_ , H32 , H32_ , H53 , H53_ , H57_ , H538 , H578 , SWO , HM , QF , OC
3	VCXO	G22_,G32_, G53_ , G57_, G538 , G578
4	VCTCVC	ME32T , (V)M21, (V)M22_, (V)M32_, (V)M32_,(V)M53_, (V)M_57_, (V)MJF538, (V)MQF,(V)M
5	Crystal Fillter	_MQ_, SAW

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Test Part Description

No.1 : MIXED ALL PARTS

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.
	AMD1: 2017, analysis was performed			
	by ICP-OES.			
Hexavalent Chromium Cr(VI) (CAS No.:	With reference to IEC 62321-7-2:	mg/kg	8	n.d.
18540-29-9)	2017, analysis was performed by UV-			
	VIS.			
Monobromobiphenyl		mg/kg	5	n.d.
Dibromobiphenyl		mg/kg	5	n.d.
Tribromobiphenyl		mg/kg	5	n.d.
Tetrabromobiphenyl		mg/kg	5	n.d.
Pentabromobiphenyl		mg/kg	5	n.d.
Hexabromobiphenyl		mg/kg	5	n.d.
Heptabromobiphenyl		mg/kg	5	n.d.
Octabromobiphenyl		mg/kg	5	n.d.
Nonabromobiphenyl		mg/kg	5	n.d.
Decabromobiphenyl		mg/kg	5	n.d.
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.
Dibromodiphenyl ether		mg/kg	5	n.d.
Tribromodiphenyl ether		mg/kg	5	n.d.
Tetrabromodiphenyl ether		mg/kg	5	n.d.
Pentabromodiphenyl ether		mg/kg	5	n.d.
Hexabromodiphenyl ether		mg/kg	5	n.d.
Heptabromodiphenyl ether		mg/kg	5	n.d.
Octabromodiphenyl ether		mg/kg	5	n.d.
Nonabromodiphenyl ether		mg/kg	5	n.d.
Decabromodiphenyl ether		mg/kg	5	n.d.
Sum of PBDEs		mg/kg	-	n.d.

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Test Item(s)	Method	Unit	MDL	Result
				No.1
Butyl benzyl phthalate (BBP) (CAS No.:		mg/kg	50	n.d.
85-68-7)				
Dibutyl phthalate (DBP) (CAS No.: 84-		mg/kg	50	n.d.
74-2)	With reference to IEC 62321-8: 2017,			
Di-(2-ethylhexyl) phthalate (DEHP)	analysis was performed by GC/MS.	mg/kg	50	n.d.
(CAS No.: 117-81-7)				
Diisobutyl phthalate (DIBP) (CAS No.:		mg/kg	50	n.d.
84-69-5)				
Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	n.d.
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
Bromine (Br) (CAS No.: 10097-32-2)	analysis was performed by IC.	mg/kg	50	n.d.
lodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
PFOS and its salts (CAS No.: 1763-23-1	With reference to CEN/TS 15968:	mg/kg	0.01	n.d.
and its salts)	2010, analysis was performed by			
PFOA and its salts (CAS No.: 335-67-1	LC/MS/MS.	mg/kg	0.01	n.d.
and its salts)	20,1110,1110.			

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. PFOS and its salts including:

CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.

- 6. PFOA and its salts including:
 - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 7. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.
- 8. This is the additional test report of ETR21106958.

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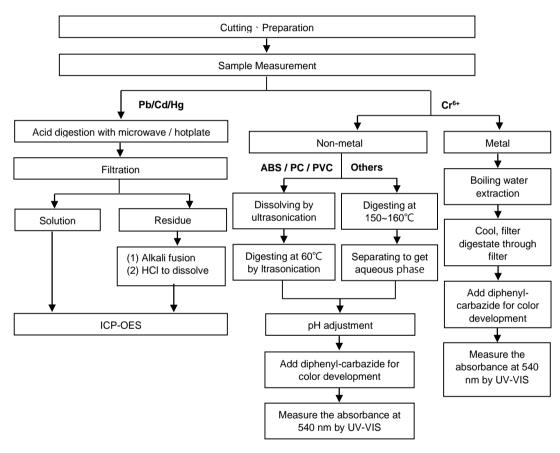
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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr6+ test method excluded)



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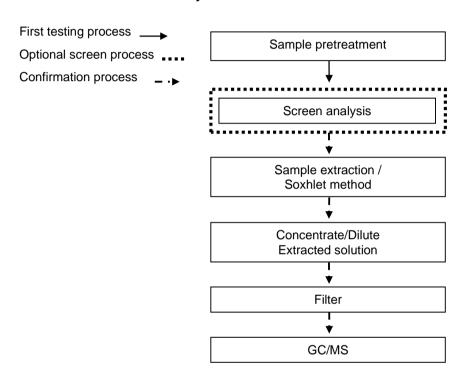


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Analytical flow chart - PBBs / PBDEs



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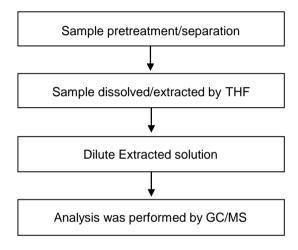


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Analytical flow chart - Phthalate

[Test method: IEC 62321-8]



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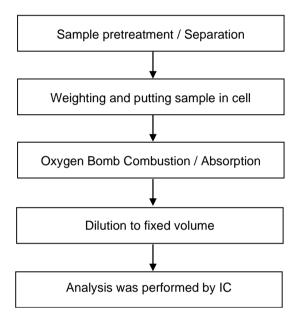
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Analytical flow chart - Halogen



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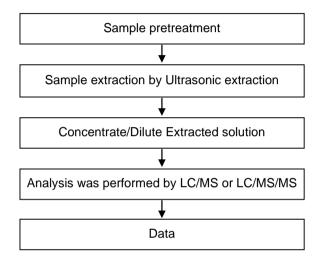
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Analytical flow chart - PFOA/PFOS



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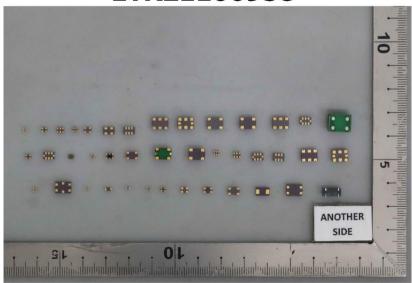
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR21106958



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** End of Report **

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