

Test Report No.: EKR22C01728 Date: 28-Dec-2022 Page: 1 of 18

ACCURUS SCIENTIFIC CO., LTD

NO.508-51, SECTION 1, WEN-SIEN ROAD, RENDE DISTRICT, TAINAN CITY 717, TAIWAN

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

ACCURUS SCIENTIFIC CO., LTD Sample Submitted By

Sample Name **SOLDER BALL**

Style/Item No. SACN105008(Sn98.42Ag1.0Cu0.5Ni0.08)-4N

Sample Receiving Date 21-Dec-2022

Testing Period 21-Dec-2022 to 28-Dec-2022

(1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending **Test Requested**

Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs,

DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

Test Results Please refer to following pages.

Conclusion Based on the performed tests on submitted sample(s), the test results of Cadmium,

> Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Ray Chang, Ph.D./Depart the viviai Signed for and on behalf SĞS TAIWAN LTD. Chemical Laboratory-Kaohsiung





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ACCURUS SCIENTIFIC CO., LTD NO.508-51, SECTION 1, WEN-SIEN ROAD, RENDE DISTRICT, TAINAN CITY 717, TAIWAN

Test Part Description

No.1 : SILVERY SOLDER BALL

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result No.1	Limit
Codesium (Cd) (CACNo : 7440, 42, 0)	With reference to IEC (2221 E. 2012	100 m /l cm	2		100
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	100
Lead (Pb) (CAS No.: 7439-92-1)	analysis was performed by ICP-OES. With reference to IEC 62321-5: 2013,	no a /l·a	2	18.5	1000
Lead (PD) (CAS No 7439-92-1)	analysis was performed by ICP-OES.	mg/kg	2	16.5	1000
Margury (Hg) (CAC No. 7420 07 C)	With reference to IEC 62321-4: 2013+	100 m /l cm	2	10 d	1000
Mercury (Hg) (CAS No.: 7439-97-6)		mg/kg	2	n.d.	1000
	AMD1: 2017, analysis was performed by ICP-OES.				
Hexavalent Chromium Cr(VI) (CAS No.:	With reference to IEC 62321-7-1:	μg/cm²	0.1	n.d.	-
18540-29-9) (#2)	2015, analysis was performed by UV-				
	VIS.				
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl]	mg/kg	5	n.d.	-
Tribromobiphenyl	1	mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl	With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.	-
Hexabromobiphenyl	analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Heptabromobiphenyl	analysis was performed by GC/1813.	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		mg/kg	-	n.d.	1000
Monobromodiphenyl ether		mg/kg	5	n.d.	-
Dibromodiphenyl ether]	mg/kg	5	n.d.	-
Tribromodiphenyl ether	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	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.	1000



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Butyl benzyl phthalate (BBP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Mg/kg 50 n.d. 1000 10	Test Item(s)	Method	Unit	MDL	Result	Limit
85-68-7 analysis was performed by GC/MS. mg/kg 50 n.d. 1000					No.1	
Dibutyl phthalate (DBP) (CAS No.: 84-74-2) analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7) Diisobutyl phthalate (DIBP) (CAS No.: analysis was performed by GC/MS. Diisobutyl phthalate (DIBP) (CAS No.: analysis was performed by GC/MS. Diisobutyl phthalate (DIDP) (CAS No.: analysis was performed by GC/MS. Diisobutyl phthalate (DIDP) (CAS No.: analysis was performed by GC/MS. Diisononyl phthalate (DIDP) (CAS No.: with reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Diisononyl phthalate (DINP) (CAS No.: analysis was performed by GC/MS. Dii-n-octyl phthalate (DNOP) (CAS No.: with reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DNOP) (CAS No.: with reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-hexyl phthalate (DNHP) (CAS No.: with reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-hexyl phthalate (DMEP) (CAS No.: days by GC/MS. Di-n-hexyl phthalate (DMEP) (CAS No.: days by GC/MS. Di-n-perhoxyethyl) phthalate (DMEP) (CAS No.:	Butyl benzyl phthalate (BBP) (CAS No.:		mg/kg	50	n.d.	1000
74-2		, ,				
Di-(2-ethylhexyl) phthalate (DEHP)	Dibutyl phthalate (DBP) (CAS No.: 84-	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
(CAS No.: 117-81-7)	74-2)	analysis was performed by GC/MS.				
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. 1000 B4-69-5) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Diisodocyl phthalate (DINP) (CAS No.: analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 28553-12-0, 68515-48-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 117-84-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 84-75-3) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 81s-2-methoxyethyl) phthalate (DMEP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 12-branched lakyl esters (DHNUP) (CAS No.: 7440-38-6) With reference to IEC 62321	Di-(2-ethylhexyl) phthalate (DEHP)	•	mg/kg	50	n.d.	1000
84-69-5 analysis was performed by GC/MS. Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DINP) (CAS No.: 117-84-0) Analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-hexyl phthalate (DNHP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-hexyl phthalate (DNHP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Bis-(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Under the provided and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) Analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Under the provided and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) Analysis was performed by GC/MS. Under the provided and linear alkyl esters (DHNUP) (CAS No.: 14362-44) Analysis was performed by GC/MS. Under the provided analysis was performed by GC/MS. Under the provide	(CAS No.: 117-81-7)	analysis was performed by GC/MS.				
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)	Diisobutyl phthalate (DIBP) (CAS No.:	•	mg/kg	50	n.d.	1000
26761-40-0, 68515-49-1)		analysis was performed by GC/MS.				
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DNOP) (CAS No.: Mith reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DMEP) (CAS No.: 117-82-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DMEP) (CAS No.: 7-rich (DIHP) (CAS No.: 7-rich (DIHP) (CAS No.: 117-82-94-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Mith reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Mith reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) Mith reference to IEC 62321-8: 2017, analysis was performed by ICC Mith reference to IEC 62321-8: 2017, analysis was performed by ICC Mith reference to IEC 62321-8: 2017, analysis was performed by ICC Mith reference to IEC 62321-8: 2017, analysis was performed by ICC Mith reference to IEC 62321-8: 2017, analysis was performed by ICC Mith reference to IEC 62321-8: 2017, analysis was performed by ICC Mith reference to IEC 62321-8: 2017, analysis was performed by ICC Mith reference to IEC 62321-	1	•	mg/kg	50	n.d.	-
28553-12-0, 68515-48-0) analysis was performed by GC/MS. mg/kg 50 n.d. - 117-84-0) mg/kg 50 n.d. - 117-84-0) mg/kg 50 n.d. - Di-n-hexyl phthalate (DNHP) (CAS No.: Bis-(2-methoxyethyl) phthalate (DMEP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Bis-(2-methoxyethyl) phthalate (DMEP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - (CAS No.: 117-82-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, (DHNUP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Chlorine (CI) (CAS No.: 14362-44-8)	-	analysis was performed by GC/MS.				
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Bis-(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 1,2-Benzenedicarboxylic acid, di-C7-I1-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 131-18-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Chlorine (CI) (CAS No.: 14762-94-8) With reference to IEC 62321-8: 2017, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, analysis was performed by ICP-OES. mg/kg 50		•	mg/kg	50	n.d.	-
117-84-0	28553-12-0, 68515-48-0)	analysis was performed by GC/MS.				
Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 84-75-3) Bis-(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 9 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 9 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 9 1,31-18-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 9 1,18-0 With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 9 1,18-0 With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 9 1,18-0 With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 9 1,18-0<	Di-n-octyl phthalate (DNOP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
Bis-(2-methoxyethyl) phthalate (DMEP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. 1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Might reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Might reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) With reference to IEC 62321-8: 2017, analysis was performed by ICC. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) Might reference to IEC 62321-8: 2017, analysis was performed by ICC. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) Might reference to IEC 62321-8: 2017, analysis was performed by ICC. Di-n-pentyl phthalate (DNPP) (CAS No.: 14762-94-8) Di-n-pentyl p	117-84-0)	analysis was performed by GC/MS.				
Bis-(2-methoxyethyl) phthalate (DMEP)	Di-n-hexyl phthalate (DNHP) (CAS No.:	•	mg/kg	50	n.d.	-
(CAS No.: 117-82-8) analysis was performed by GC/MS. mg/kg 50 n.d. - 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -	84-75-3)					
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -			mg/kg	50	n.d.	-
11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) analysis was performed by GC/MS. mg/kg 50 n.d. - 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-pentyl phthalate (DNPP) (CAS No.: 4718-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -	,					
(DHNUP) (CAS No.: 68515-42-4) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-pentyl phthalate (DNPP) (CAS No.: 14362-94-8) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -	•		mg/kg	50	n.d.	-
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -	1	analysis was performed by GC/MS.				
branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Fluorine (F) (CAS No.: 14762-94-8) mg/kg 50 n.d Chlorine (CI) (CAS No.: 22537-15-1) With reference to BS EN 14582: 2016, analysis was performed by IC. Bromine (Br) (CAS No.: 10097-32-2) analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to US EPA 3052: 1996, analysis was performed by ICP-OES.						
(CAS No.: 71888-89-6) Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Fluorine (F) (CAS No.: 14762-94-8) mg/kg 50 n.d. - Chlorine (CI) (CAS No.: 22537-15-1) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 14362-44-8) mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -		·	mg/kg	50	n.d.	-
Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 14362-44-8) mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -		analysis was performed by GC/MS.				
131-18-0) analysis was performed by GC/MS. 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, analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 14362-44-8) mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -	(CAS No.: 71888-89-6)					
Fluorine (F) (CAS No.: 14762-94-8) Chlorine (Cl) (CAS No.: 22537-15-1) Bromine (Br) (CAS No.: 10097-32-2) Iodine (I) (CAS No.: 14362-44-8) Arsenic (As) (CAS No.: 7440-38-2) Antimony (Sb) (CAS No.: 7440-36-0) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d			mg/kg	50	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 10097-32-2) analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 14362-44-8) mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -	,	analysis was performed by GC/MS.				
Bromine (Br) (CAS No.: 10097-32-2) analysis was performed by IC. mg/kg 50 n.d. -	Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	n.d.	-
Iodine (I) (CAS No.: 14362-44-8) mg/kg 50 n.d. - Arsenic (As) (CAS No.: 7440-38-2) mg/kg 2 n.d. - Antimony (Sb) (CAS No.: 7440-36-0) with reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. -	Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
Arsenic (As) (CAS No.: 7440-38-2) Antimony (Sb) (CAS No.: 7440-36-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d	Bromine (Br) (CAS No.: 10097-32-2)	analysis was performed by IC.	mg/kg	50	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	lodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
analysis was performed by ICP-OES.	Arsenic (As) (CAS No.: 7440-38-2)	· ·	mg/kg	2	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7) mg/kg 2 n.d	Antimony (Sb) (CAS No.: 7440-36-0)		mg/kg	2	n.d.	-
	Beryllium (Be) (CAS No.: 7440-41-7)	dinarysis was periorified by ICF-OES.	mg/kg	2	n.d.	-



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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.	-
Polychlorinated naphthalene (PCNs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Polychlorinated terphenyls (PCTs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.	-
Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8)	With reference to ISO 18219-1: 2021, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Medium Chain Chlorinated Paraffins(C14-C17) (MCCP) (CAS No.: 85535-85-9)	With reference to ISO 18219-2: 2021, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Tributyl tin (TBT)		mg/kg	0.03	n.d.	-
Dibutyl tin (DBT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.	-
Dioctyl tin (DOT)	analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Triphenyl tin (TPT)	1	mg/kg	0.03	n.d.	-
Bis(tributyltin) oxide (TBTO) (CAS No.: 56-35-9)	Calculated from the result of Tributyl Tin (TBT).	mg/kg	0.03▲	n.d.	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
Perfluorooctanoic acid (PFOA) and it's salt (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	n.d.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	Negative	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321: 2008, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Red Phosphorus	Analysis was performed by Pyrolyzer-GC/MS.	**	-	Negative	-
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	With reference to RSTS-E&E-121, analysis was performed by LC/MS.	mg/kg	10	n.d.	_



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Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. **= Qualitative analysis (No Unit)
- 6. Negative = Undetectable; Positive = Detectable
- 7. PFOS and its salts including:
 - CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
- 8. PFOA and its salts including:
 - CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
- 9. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μ g/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.
- 10. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	Α	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.0276

Parameter Conversion Table: https://eecloud.sgs.com/Region TW/DocDownload.aspx?name=Others

11. 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. According to this rule, the judgement of conformity is based on the comparing test results with limits.

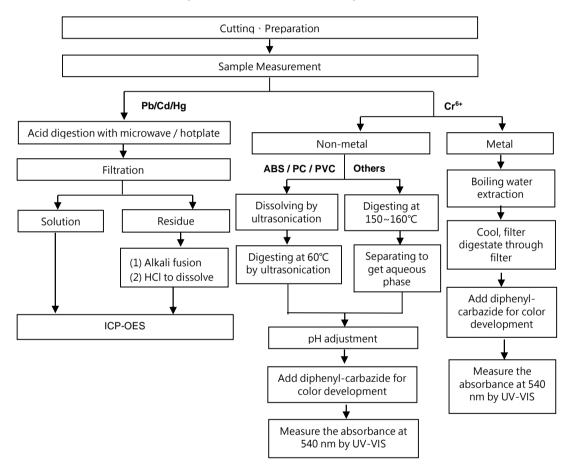


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ACCURUS SCIENTIFIC CO., LTD NO.508-51, SECTION 1, WEN-SIEN ROAD, RENDE DISTRICT, TAINAN CITY 717, TAIWAN

Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)



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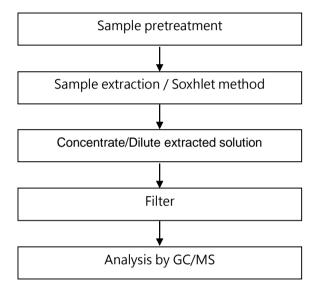
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PBB/PBDE analytical FLOW CHART



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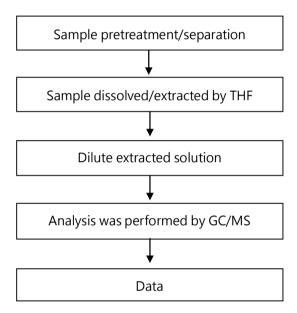


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ACCURUS SCIENTIFIC CO., LTD NO.508-51, SECTION 1, WEN-SIEN ROAD, RENDE DISTRICT, TAINAN CITY 717, TAIWAN

Analytical flow chart of phthalate content

【Test method: IEC 62321-8】



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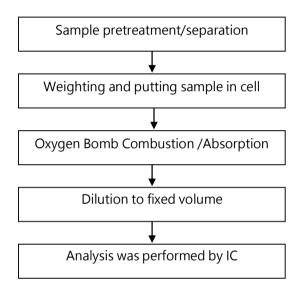
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Analytical flow chart of Halogen



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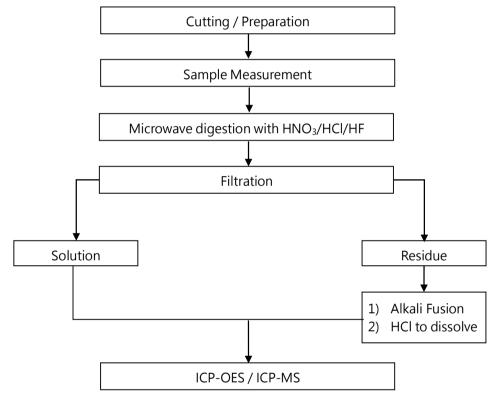
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Analytical flow chart of Elements (Heavy metal included)

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

【Reference method: US EPA 3051 \ US EPA 3052】



* US EPA 3051 method does not add HF.

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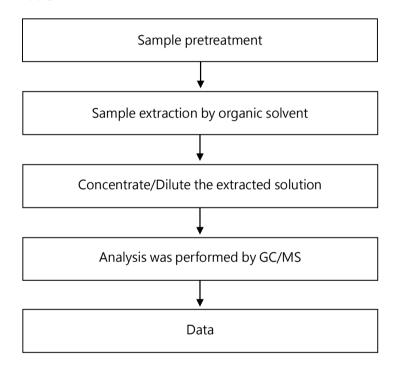


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Analytical flow chart

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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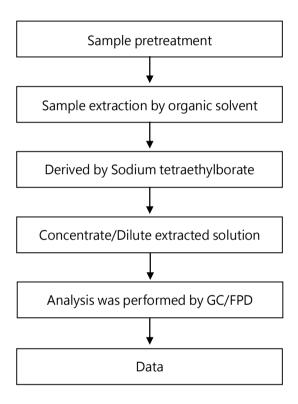
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Analytical flow chart - Organic-Tin



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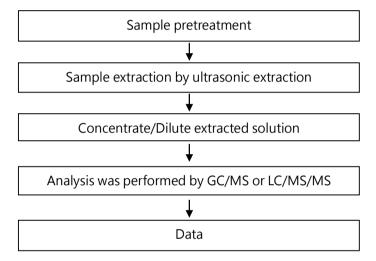
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Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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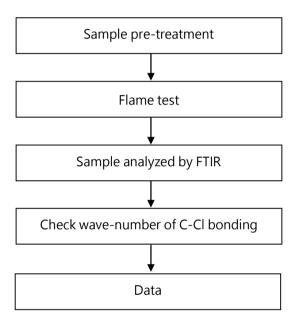
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Analysis flow chart - PVC



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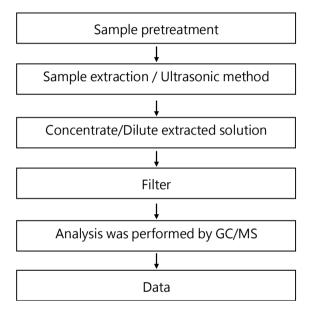
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Analytical flow chart - HBCDD



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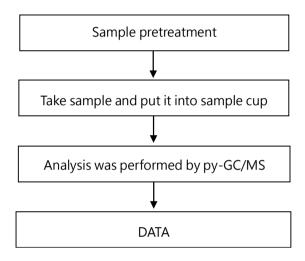
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Analytical flow chart - Red phosphorus



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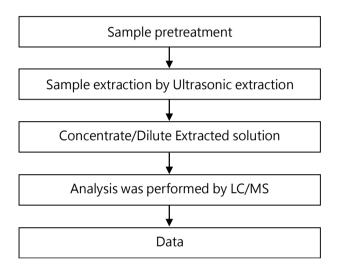
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ACCURUS SCIENTIFIC CO., LTD NO.508-51, SECTION 1, WEN-SIEN ROAD, RENDE DISTRICT, TAINAN CITY 717, TAIWAN

TBBP-A analytical flow chart



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

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** End of Report **

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