

Applicant : UTIS

Address: 652-10, Choji-dong, Danwon-ku,

Ansan-city, Gyeonggi-do, Korea

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Report No. RT11R-S0053-002-E Date: Jan. 11, 2011

Sample Description : The following submitted sample(s) said to be:-

Name/Type of Product : eSORBA ESPG
Sample ID No. : RT11R-S0053-002
Item No. : ES G-GD, ES G-GB

Manufacturer/Vender : UTIS

Sample received : Jan. 06, 2011

Testing Date : Jan. 06, 2011 ~ Jan. 11, 2011

Testing Environment : Temperature : (24 ± 2) $^{\circ}$ C, Humidity : (60 ± 5) $^{\circ}$ R.H.

Test Type : RoHS wet chemical analysis

Test Method(s) : Please see the following page(s).

Test Result(s) : Please see the following page(s).

Approved by, Authorized by,

Jade Jang / Lab. Technical Manager

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Bo Park / Lab. General Manager

^{*} Note 1 : The test results presented in this report relate only to the object tested.

^{*} Note 2: This report shall not be reproduced except in full without the written approval of the testing laboratory.

^{*} Note 3: The item no. is assigned by client and indicated according to their requirement and guarantee letter.



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Date: Jan. 11, 2011

Sample ID No. : RT11R-S0053-002 Sample Description : eSORBA ESPG

Test Item	Unit	Test Method	MDL	Result
Cadmium (Cd)	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by acid digestion and determined by ICP-OES	0.5	N.D.
Lead (Pb)	mg/kg		5	N.D.
Mercury (Hg)	mg/kg		2	N.D.
Hexavalent Chromium (Cr ⁶⁺) (For non-metal)	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by alkaline digestion and determined by UV-VIS Spectrophotometer	1	N.D.
Polybrominated Biphenyl (PBBs)				
Monobromobiphenyl	mg/kg		5	N.D.
Dibromobiphenyl	mg/kg		5	N.D.
Tribromobiphenyl	mg/kg		5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to	5	N.D.
Pentabromobiphenyl	mg/kg	IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	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.
Polybrominated Diphenyl Ether (P	BDEs)			
Monobromodiphenyl ether	mg/kg		5	N.D.
Dibromodiphenyl ether	mg/kg		5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	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.

Tested by: Nikkie Lee, Leo Kim, Ellen Jung, Jessica Kang

Notes: mg/kg = ppm = parts per million

 \leq = Less than

N.D. = Not detected (< MDL)MDL = Method detection limit



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Sample ID No. : RT11R-S0053-002 Sample Description : eSORBA ESPG

Test Item	Unit	Test Method	MDL	Result
Bromine (Br)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Chlorine (CI)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Fluorine (F)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
lodine (I)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.

Tested by: Nikkie Lee

Notes: mg/kg = ppm = parts per million

 \leq = Less than

N.D. = Not detected (<MDL)
MDL = Method detection limit

^{*} View of sample as received;-

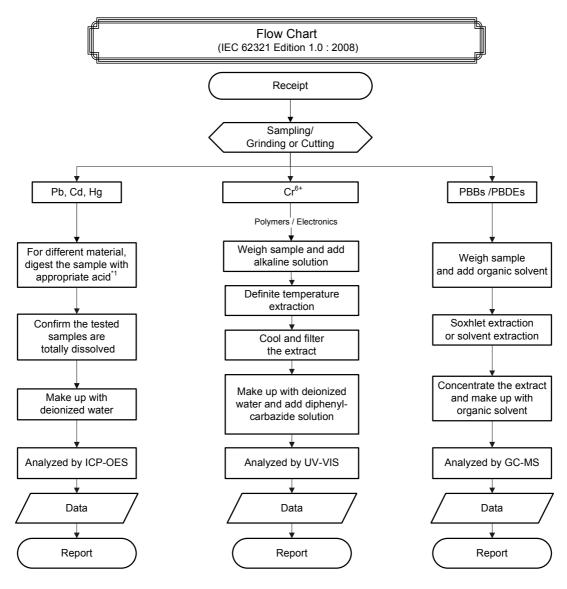




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Remarks:

$^{*}1$: List of appropriate acid:

Material	Acid added for digestion
Polymers	HNO _{3,} HCI, HF, H ₂ O ₂ , H ₃ BO ₃
Metals	HNO ₃ , HCI, HF
Electronics	HNO ₃ , HCI, H ₂ O ₂ , HBF ₄

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Flow Chart (Halogen)

