



Maxwell Technologies, Inc.
 3888 Calle Fortunada
 San Diego, CA 92123

January 14th, 2016

RE: HC Cell Series RoHS Declaration

To Our Valued Customers:

The EU Restriction on Hazardous Substances (RoHS) Directive (2011/65/EU) was recast from Directive 2002/95/EC on July 21, 2011, and member states are required to enforce the restrictions by January 2, 2013. It seeks to restrict the use of certain hazardous substances in electrical and electronic equipment by setting certain concentration limits for the following substances: lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr₆₊), polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE).

Maxwell Technologies, Inc., along with its affiliates, vendors and partners, support the RoHS objective of preventing risks to human health and the environment, with a particular focus on workers involved in the management of electronic waste. Accordingly, Maxwell hereby declares that the products listed in Table 1 below do not contain any of the above mentioned substances in excess of the permitted concentrations.

Table 1

PC10-90	PC10HT-90	BCAP0001 P270 T01	BCAP0003 P270 T01	BCAP0005 P270 T01
BCAP0010 P270 T01	BCAP0010 P270 T11	BCAP0025 P270 T01	BCAP0025 P270 T11	BCAP0050 P270 T01
BCAP0100 P270 T01	BCAP0100 P270 T07	BCAP0150 P270 T07	BCAP0310 P270 T10	BCAP0350 E270 T11
BCAP0650 P270 K04	BCAP0650 P270 K05	BCAP1200 P270 K04	BCAP1200 P270 K05	BCAP1500 P270 K04
BCAP1500 P270 K05	BCAP2000 P270 K04	BCAP2000 P270 K05	BCAP3000 P270 K04	BCAP3000 P270 K05
BCAP3400 P285 K04	BCAP3400 P285 K05			

The above statements are based upon one of the following techniques employed by Maxwell, its affiliates, vendors, or partners: certification at accredited test facilities; or through similarity in construction and materials used.

RoHS test reports prepared for Maxwell by an accredited facility are attached:

For additional questions or information, please contact your Maxwell Key Account Manager.

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Validity unknown

For Question
Please Contact with SGS
www.tw.sgs.com

Test Report

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3888 CALLE FORTUNADA, SAN DIEGO, CA 92123, USA



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

Sample Submitted By	: MAXWELL TECHNOLOGIES INC.
Sample Description	: ULTRACAPACITORS
Style/Item No.	: HC CELLS (PET)
Buyer/Order No.	: 59156
Sample Receiving Date	: 2014/12/23
Testing Period	: 2014/12/23 TO 2014/12/29

Test Result(s) : Please refer to next page(s).



Troy Chang, Manager - Tech
 Signed for and on behalf of
SGS TAIWAN LTD.
 Chemical Laboratory - Taipei

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Test Result(s)

PART NAME No.1 : MIXED ALL PARTS

Test Item(s)	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	3
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
Toluene (CAS No.: 108-88-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	25200
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

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Test Item(s)	Unit	Method	MDL	Result
				No.1
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
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 PBDEs	mg/kg		-	n.d.
Monobromodiphenyl ether	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.	

Note :

1. mg/kg = ppm : 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. 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.

PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

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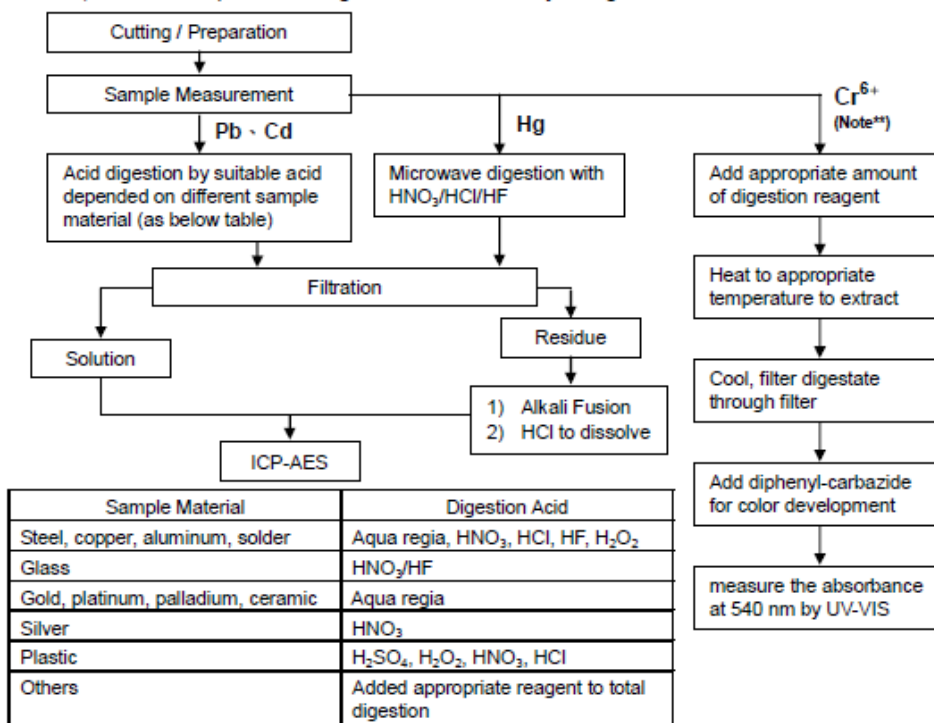
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note (For IEC 62321)**

- (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) For metallic material, add pure water and heat to boiling.

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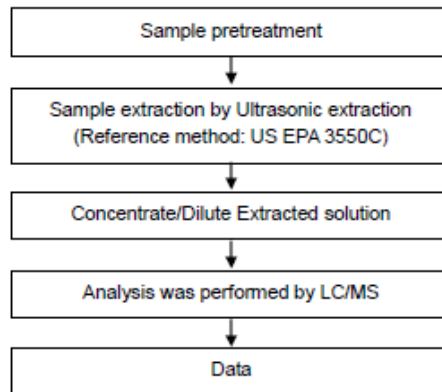
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PFOA/PFOS analytical flow chart of Ultrasonic extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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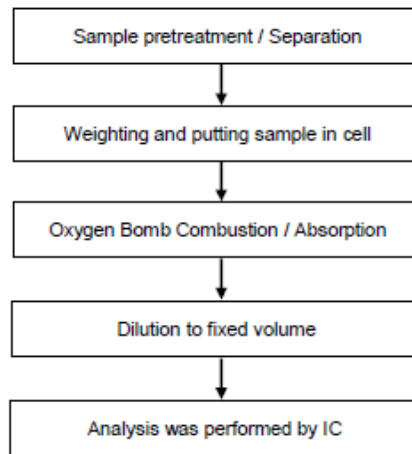
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Analytical flow chart of halogen content

- Name of the person who made measurement: Rita Chen
- Name of the person in charge of measurement: Troy Chang



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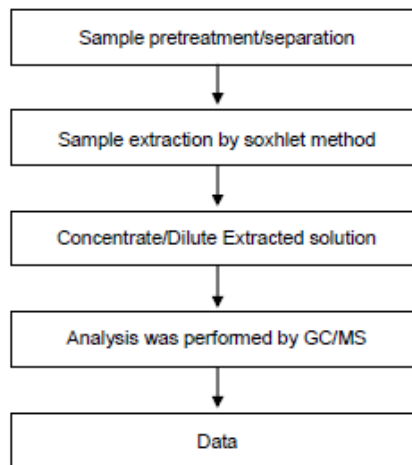
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Analytical flow chart of phthalate content

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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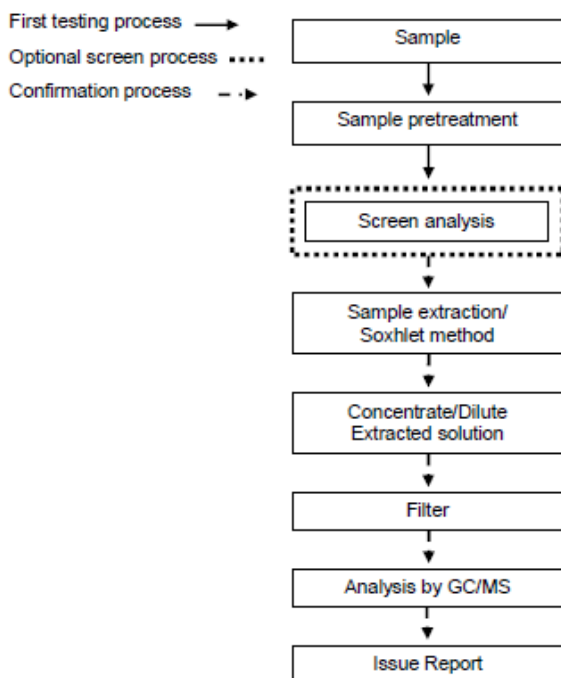
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PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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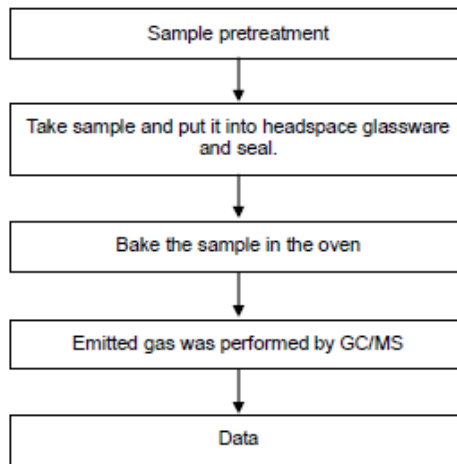
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Analytical flow chart of volatile organic compounds (VOCs)

- Name of the person who made measurement : Chun Wu
- Name of the person in charge of measurement : Shinjyh Chen
【 Reference method : US EPA 5021 】



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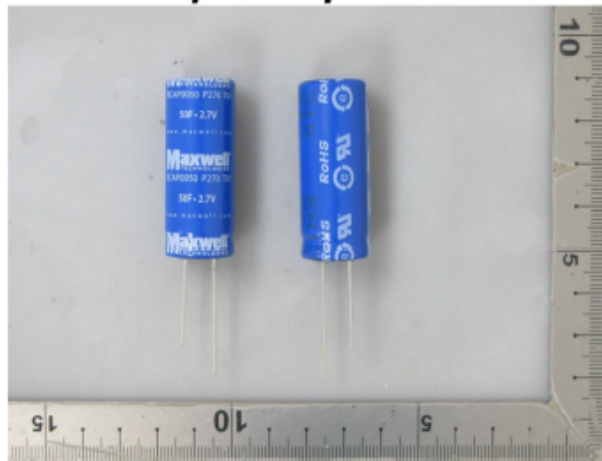
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

CE/2014/C4550



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