

Test Report	No.:	CANEC23001444707	Date:	Apr 17, 2023	Page 1 of 17		
Client Name:	ORWARD EL	ECTRONICS (DONGGUAN)	CO., LTD				
		USTRIAL AREA,XING FA SO GUAN,GUANDDONG PROV			AGE, CHANG AN		
Sample Name:	S	uper Capacitors					
Model No.:	E	DLC					
The above samp	le(s) and infor	mation were provided by the	client.				
SGS Job No.:	С	P23-015731					
Sample Receivin	Sample Receiving Date: Apr 04, 2023						
Testing Period:	A	or 04, 2023 ~ Apr 13, 2023					
Test Requested:	S	elect test(s) as requested by	the client.				
Test Method(s):	Р	ease refer to next page(s).					
Test Result(s):	Р	ease refer to next page(s).					
Test Requirem	ent				Conclusion		
2011/65/EU- Le biphenyls (PBB	ad, Mercury, (s), Polybromin P), Butyl benzy	/863 amending Annex II to D Cadmium, Hexavalent chromi ated diphenyl ethers (PBDEs yl phthalate (BBP), Dibutyl ph	um, Polybro), Bis(2-eth	ylhexyl)	Pass		
EU RoHS Direc 2011/65/EU- Le	tive (EU) 2015 ad, Mercury, C	/863 amending Annex II to D Cadmium and Hexavalent chr	omium		Pass		
Perfluorooctance (PFOS) and its) and its salts, Perfluorooctar	ne sulfonate	es	See Results		

Halogen Element(s)

(PFOS) and its derivatives

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Arsene Ye

Arsene Ye Approved Signatory



See Results

See Results



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Test Report

No.: CANEC23001444707

Date: Apr 17, 2023

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0014447-0001.C001	White paper sheet with liquid
SN2	A2	CAN23-0014447-0001.C002	Black rubber
SN3	A3	CAN23-0014447-0001.C003	Green plastic tube with white printing
SN4	A4	CAN23-0014447-0001.C004	Black coating
SN5	A5	CAN23-0014447-0001.C005	Gray metal foil
SN6	A6	CAN23-0014447-0001.C006	Silvery metal pin
SN7	A7	CAN23-0014447-0001.C007	Silvery metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Cadmium(Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	18	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND	ND	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND	ND	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND	ND	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND	ND	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND	ND	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND	ND	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND	ND	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND	ND	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND	ND	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND	ND	ND
Test Item(s)	Limit	Unit(s)	MDL	A4]	
Cadmium(Cd)	100	mg/kg	2	ND		
Lead (Pb)	1000	mg/kg	2	ND	1	
Mercury (Hg)	1000	mg/kg	2	ND	1	
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND]	
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND]	
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND		
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND		

Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether	_	mg/kg	5	ND
(MonoBDE)	_			
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether	_	mg/kg	5	ND
(TetraBDE)	-	iiig/kg	5	ND
Pentabromodiphenylether	_	mg/kg	5	ND
(PentaBDE)	_	iiig/kg	5	
Hexabromodiphenylether	_	mg/kg	5	ND
(HexaBDE)	_	iiig/kg	5	
Heptabromodiphenylether	_	mg/kg	5	ND
(HeptaBDE)	-	my/ky	5	
Octabromodiphenylether	-	mg/kg	5	ND
(OctaBDE)		iiig/itg	5	



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	Test Item(s)		Limit	Unit(s)	MDL	A4
	Nonabromodiphenylether (NonaBDE)		-	mg/kg	5	ND
	Decabromodiphenylether (DecaBDE)		-	mg/kg	5	ND
	Dibutyl Phthalate(DBP)		1000	mg/kg	50	ND
	Benzyl Butyl Phthalate(BBP)		1000	mg/kg	50	ND
	Bis-(2-ethylhexyl) Phthalate(DEHP)		1000	mg/kg	50	ND
	Diisobutyl Phthalate(DIBP)		1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES and UV-Vis.

Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Cadmium(Cd)	100	mg/kg	2	ND	ND	ND
Lead(Pb)	1000	mg/kg	2	10	ND	6
Mercury(Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI)
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between $0.10 \ \mu g/cm^2$ and $0.13 \ \mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.



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Test Item(s)	CAS No.	Unit(s)	MDL	A1	A2	A3
Perfluorooctanoic acid (PFOA) and its salts*	-	mg/kg	0.010	ND	ND	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND	ND	ND
Perfluorooctane sulfonates (PFOS) and its salts*	-	mg/kg	0.010	ND	ND	ND
N-ethylperfluoro-1- octanesulfonamide (N- EtFOSA)	4151-50-2	mg/kg	0.010	ND	ND	ND
N-methylperfluoro-1- octanesulfonamide (N- MeFOSA)	31506-32-8	mg/kg	0.010	ND	ND	ND
2-(N-ethylperfluoro-1- octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND	ND	ND
2-(N-methylperfluoro- 1- octanesulfonamido) -ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND	ND	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A4
Perfluorooctanoic acid (PFOA) and its salts*	-	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
Perfluorooctane sulfonates (PFOS) and its salts*	-	mg/kg	0.010	ND
N-ethylperfluoro-1- octanesulfonamide (N- EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1- octanesulfonamide (N- MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1- octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro- 1- octanesulfonamido) -ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND

Notes:

- Perfluorooctanoic acid (PFOA) and its salts* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.
- (2) Perfluorooctane sulfonates (PFOS) and its salts* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH₄ (CAS No. 29081-56-9), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8), PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5),



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PFOS-N(C_2H_5)₄ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

<u>Halogen</u>

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A1	A2	A3
Fluorine(F)	mg/kg	50	63653	317	ND
Chlorine(Cl)	mg/kg	50	ND	ND	ND
Bromine(Br)	mg/kg	50	ND	ND	ND
lodine(l)	mg/kg	50	ND	ND	ND

Test Item(s)	Unit(s)	MDL	A4
Fluorine(F)	mg/kg	50	54422
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
lodine(I)	mg/kg	50	ND

Element(s)

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A5	A6	A7
Beryllium(Be)	mg/kg	5	ND	ND	ND

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.



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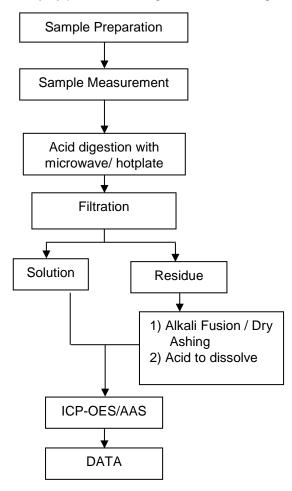
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Elements Testing Flow Chart

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





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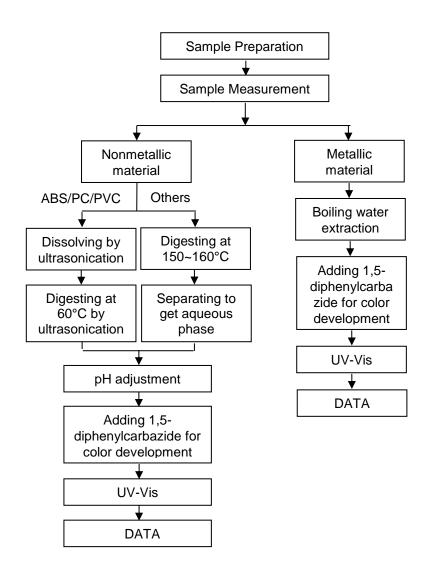


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ATTACHMENTS

Test Report

Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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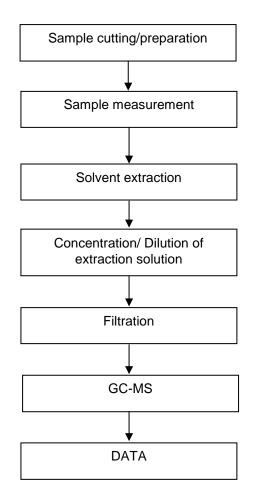
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PBBs/PBDEs Testing Flow Chart





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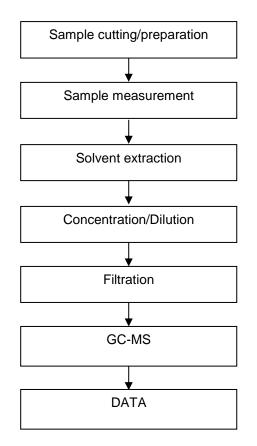
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No.: CANEC23001444707

Date: Apr 17, 2023

Phthalates Testing Flow Chart





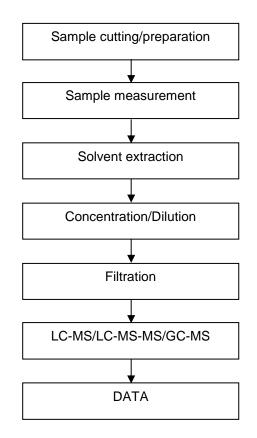
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PFASs/ PFOS/PFOA Testing Flow Chart





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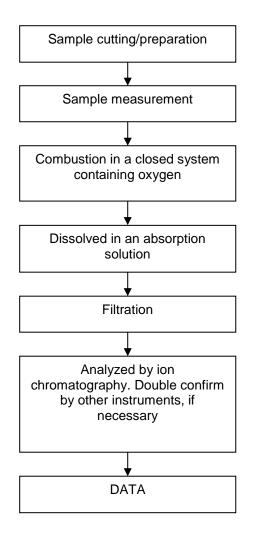
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Test Report ATTACHMENTS

Halogen Testing Flow Chart





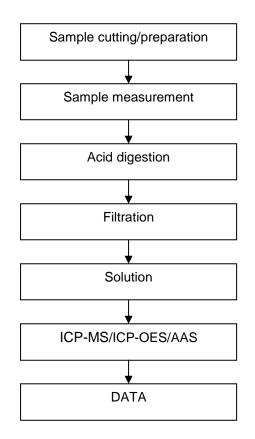
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Elements Testing Flow Chart

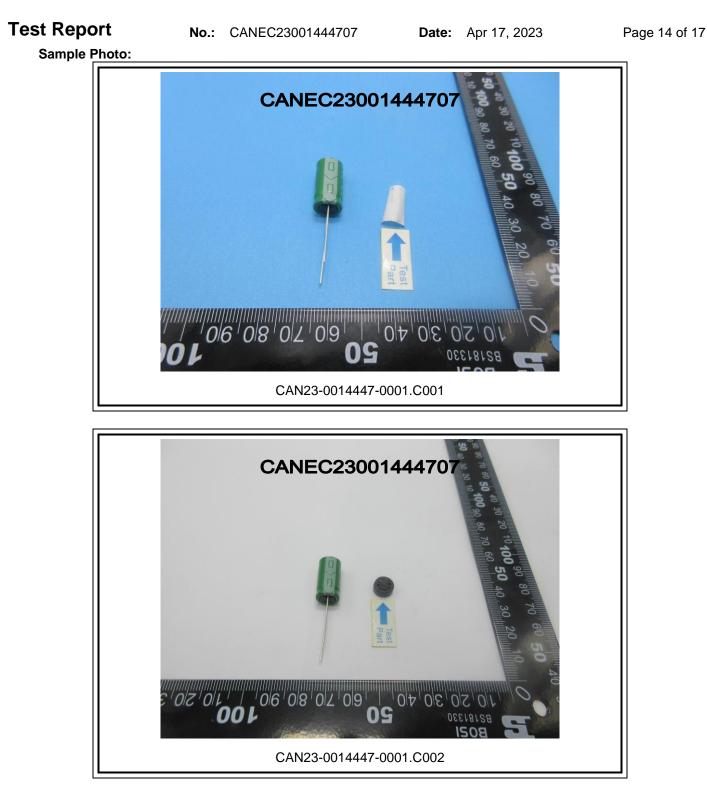




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