

Test Report Date: 12 Mar 2019 No. CANEC1902936401 Page 1 of 17

SAMXON ELECTRONICS (DONGGUAN)CO., LTD

XIN XING INDUSTRIAL AREA, XING FA SOUTH ROAD, WU SHA VILLAGE, CHANG AN TOWN, DONG **GUAN, GUANG DONG, PROVINCE CHINA**

The following sample(s) was/were submitted and identified on behalf of the clients as: Aluminum Electrolytic Capacitors

SGS Job No.: CP19-007676 - SZ

Model No.: **LEAD-WIRE**

Date of Sample Received: 01 Mar 2019

Testing Period: 01 Mar 2019 - 11 Mar 2019

Test Requested: Selected test(s) as requested by client.

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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No. CANEC1902936401

Date: 12 Mar 2019

Page 2 of 17

Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN19-029364.001	Beige-yellow paper with liquid
SN2	CAN19-029364.002	Black rubber
SN3	CAN19-029364.003	Black plastic tube w/ white printing
SN4	CAN19-029364.004	Silver-gray metal foil
SN5	CAN19-029364.005	Gray metal foil
SN6	CAN19-029364.006	Silvery metal
SN7	CAN19-029364.007	Silver-white metal

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	5	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Report	No. CANEC19029364	101	Date:	12 Mar 2019	Page 3	3 of 17
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	ND	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

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RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	4	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>		
Cadmium (Cd)	100	mg/kg	2	ND		
Lead (Pb)	1,000	mg/kg	2	ND		
Mercury (Hg)	1,000	mg/kg	2	ND		
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND		



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Test Report No. CANEC1902936401 Date: 12 Mar 2019 Page 4 of 17

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- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI 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.

Halogen

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Fluorine (F)	mg/kg	50	ND	ND	ND
Chlorine (CI)	mg/kg	50	ND	ND	ND
Bromine (Br)	mg/kg	50	ND	ND	ND
lodine (I)	mg/kg	50	ND	ND	ND

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method

3052:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Antimony (Sb)	mg/kg	10	ND	ND	63

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.



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Test Report	No. CANEC1902936401	Date: 12 Mar 2019			Page 5 of 17	
Test Item(s) Beryllium (Be) Arsenic (As)	<u>Unit</u> mg/kg mg/kg	MDL 5 10	<u>004</u> ND ND	<u>005</u> ND ND	<u>006</u> ND 20	
Test Item(s) Beryllium (Be) Arsenic (As)	<u>Unit</u> mg/kg mg/kg	MDL 5 10	<i>007</i> ND ND			

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.003	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.003	ND
Diallyl Phthalate (DAP)	131-17-9	%(w/w)	0.003	ND



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Test Report	No. CANEC1902936401	Date: 12 l	Mar 2019	Page 6	of 17
Test Item(s) 1,2-Benzenedicarboxylic acid, dihex and linear(DHP)		<u>AS NO.</u> 15-50-4	<u>Unit</u> %(w/w)	<u>MDL</u> 0.010	<u>001</u> ND
Diisononyl adipate (DINA)	337	03-08-1	%(w/w)	0.010	ND
Test Item(s)		AS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Dibutyl Phthalate (DBP)		1-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)		5-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	11	7-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)		53-12-0 / 15-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	11	7-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)		61-40-0 / 15-49-1	%(w/w)	0.010	ND
Dimethyl Phthalate (DMP)	13	1-11-3	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84	1-66-2	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84	4-69-5	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84	1-76-4	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	275	54-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	13	1-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84	4-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	13	1-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	52	3-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84	1-62-8	%(w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84	4-75-3	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DME	EP) 11	7-82-8	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	60	5-50-5	%(w/w)	0.003	ND
n-pentyl Isopentyl Phthalate (nPIPP	7762	297-69-9	%(w/w)	0.003	ND
Diallyl Phthalate (DAP)	13	1-17-9	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, dihex and linear(DHP)	yl ester branched 685	15-50-4	%(w/w)	0.010	ND
Diisononyl adipate (DINA)	337	03-08-1	%(w/w)	0.010	ND
Test Item(s)		AS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Dibutyl Phthalate (DBP)		1-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)		5-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)		7-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)		53-12-0 / 15-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	11	7-84-0	%(w/w)	0.003	ND



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Test Item(s)	<u>C/</u>	AS NO. Unit	MDL	<u>003</u>
Diisodecyl Phthalate (DIDP)	2676	%(w/w) %(w/w)	0.010	ND
	685	15-49-1		
Dimethyl Phthalate (DMP)	13	1-11-3 %(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84	-66-2 %(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84	-69-5 %(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84	-76-4 %(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	2755	54-26-3 %(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	13	1-16-8 %(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84	-61-7 %(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	13	1-18-0 %(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523	3-31-9 %(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84	-62-8 %(w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84	-75-3 %(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DME	EP) 117	7-82-8 %(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	608	5-50-5 %(w/w)	0.003	ND
n-pentyl Isopentyl Phthalate (nPIPP	7762	97-69-9 %(w/w)	0.003	ND
Diallyl Phthalate (DAP)	13	1-17-9 %(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, dihex	yl ester branched 685	15-50-4 %(w/w)	0.010	ND
and linear(DHP)				
Diisononyl adipate (DINA)	3370	03-08-1 %(w/w)	0.010	ND

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.
- iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by



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Test Report No. CANEC1902936401 Date: 12 Mar 2019 Page 8 of 17

weight of the plasticised material shall not be placed on the market. Please refer to Regulation (EC) No 552/2009 to get more detail information.

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

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

Test Item(s) Perfluorooctanoic acid (PFOA) Perfluorooctane Sulfonates (PFOS)^	<u>CAS NO.</u>	<u>Unit</u>	MDL	<u>001</u>
	335-67-1	mg/kg	10	ND
	-	mg/kg	10	ND
Test Item(s) Perfluorooctanoic acid (PFOA) Perfluorooctane Sulfonates (PFOS)^	<u>CAS NO.</u>	<u>Unit</u>	MDL	002
	335-67-1	mg/kg	10	ND
	-	mg/kg	10	ND
Test Item(s) Perfluorooctanoic acid (PFOA) Perfluorooctane Sulfonates (PFOS)^	<u>CAS NO.</u>	<u>Unit</u>	MDL	003
	335-67-1	mg/kg	10	ND
	-	mg/kg	10	ND

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid. Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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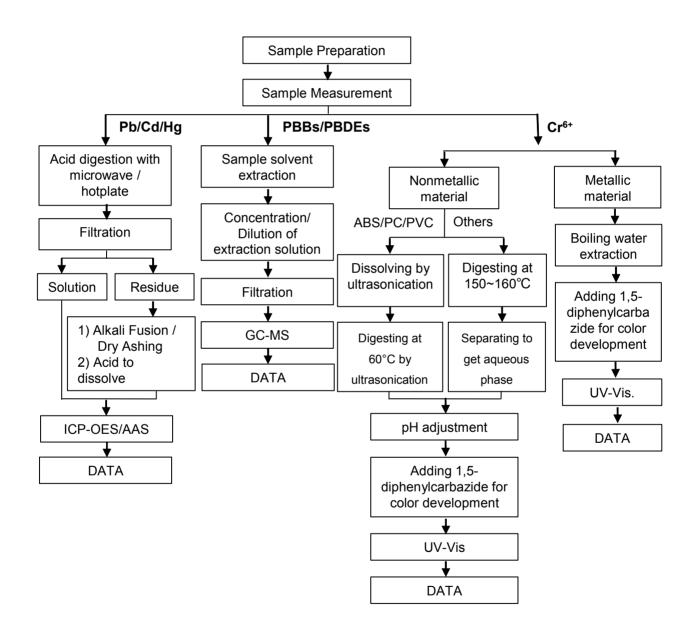
Page 9 of 17

Date: 12 Mar 2019

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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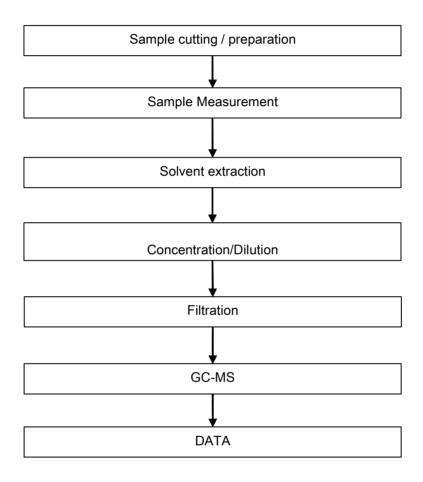
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Page 10 of 17

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Phthalates Testing Flow Chart





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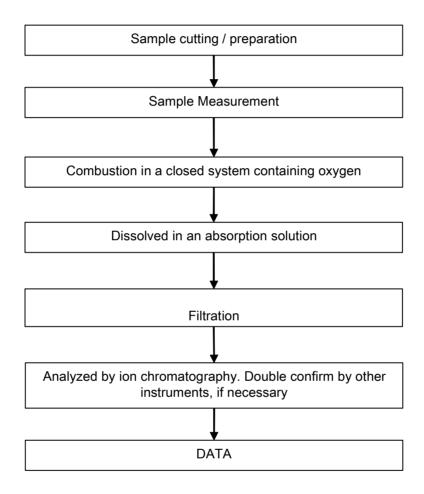
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Page 11 of 17

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Halogen Testing Flow Chart





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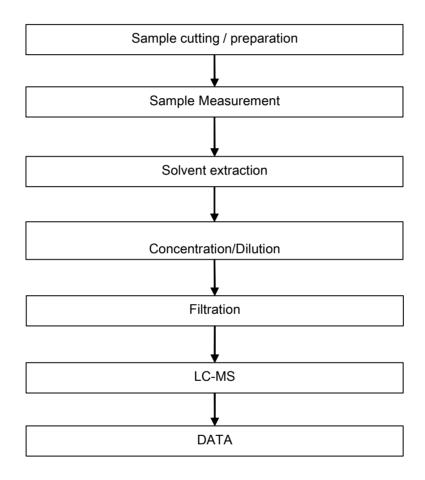
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Page 12 of 17

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PFOA / PFOS Testing Flow Chart





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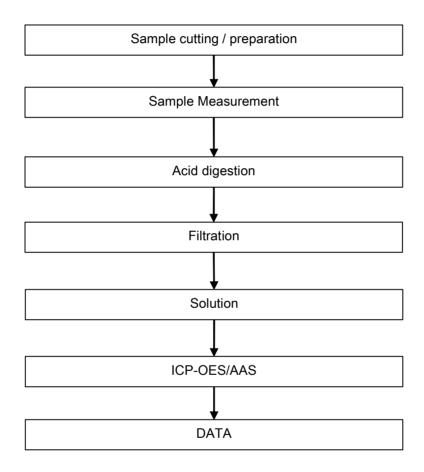
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Page 13 of 17

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Elementary Testing Flow Chart





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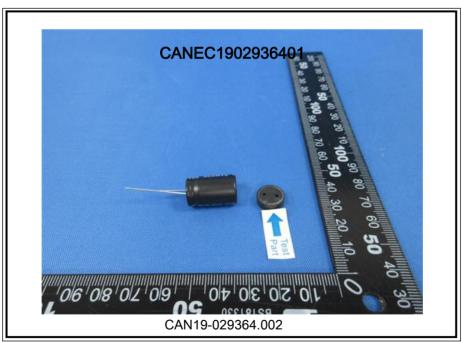
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Page 14 of 17

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Sample photo:







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No. CANEC1902936401 Date: 12 Mar 2019 Page 15 of 17







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No. CANEC1902936401 Date: 12 Mar 2019 Page 16 of 17







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