Zhongshan LCS Compliance Testing Laboratory Ltd.
23F, Building A, Zhongshan Harbor of iDEAS, No. 25 Gangyi Road, Torch Development Zone, Zhongshan, Guangdong, China
Tel: (86) 0760-85282956 Internet: Http://www.LCS-cert.com

TEST REPORT

Client company	:	**Ningbo Veken Battery Co., Ltd.**
Client address	:	**No.2, Area 0212, West Zone, Free Trade Zone, Ningbo, Zhejiang Province, China**
Manufacturer	:	**Ningbo Veken Battery Co., Ltd.**
Address	:	**No.2, Area 0212, West Zone, Free Trade Zone, Ningbo, Zhejiang Province, China**

Report on the submitted samples said to be:

Sample Name	:	**Rechargeable Polymer Lithium-ion Battery**
Trade Mark	:	NOKIA
Test Item No.	:	**HQ510**
Style/ Item No.	:	**N/A**
Sample Receiving Date	:	**February 05, 2019**
Testing Period	:	**February 05, 2019 ~ February 25, 2019**
Results	:	**Please refer to next page(s).**

****

Summary of Test Results:

TEST REQUEST

As specified by client, to screen the 197 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s), the test results of SVHC are ≤1000(mg/kg).

****

Signed for and on behalf of LCS

Written By: Fairy Zhang **Fairy Zhang**

Checked by: Suez Su **Suez Su**

Approved by: Hart Qiu **Hart Qiu**

Center of Testing Service * APPROVED *

No.	Items	CAS No.	EC No.	MDL(mg/kg)	Total(mg/kg)
1	Triethyl arsenate	15606-95-8	427-700-2	50	N.D.
2	Sodium dichromate	10588-01-9, 7789-12-0	234-190-3	50	N.D.
3	Lead hydrogen arsenate	7784-40-9	232-064-2	50	N.D.
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	25637-99-4, 3194-55-6 , (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4 221-695-9	50	N.D.
5	Dibutyl phthalate (DBP)	84-74-2	201-557-4	50	N.D.
6	Diarsenic trioxide	1327-53-3	215-481-4	50	N.D.
7	Diarsenic pentaoxide	1303-28-2	215-116-9	50	N.D.
8	Cobalt dichloride	7646-79-9	231-589-4	50	N.D.
9	Bis(tributyltin) oxide (TBTO)	56-35-9	200-268-0	50	N.D.
10	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	50	N.D.
11	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	50	N.D.
12	Anthracene	120-12-7	204-371-1	50	N.D.
13	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	50	N.D.
14	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	201-329-4	50	N.D.
15	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	50	N.D.
16	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	50	N.D.
17	Pitch, coal tar, high-temp.	65996-93-2	266-028-2	50	N.D.
18	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	50	N.D.
19	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	50	N.D.
20	Lead chromate	7758-97-6	231-846-0	50	N.D.
21	Diisobutyl phthalate	84-69-5	201-553-2	50	N.D.
22	Anthracene oil, anthracene-low	90640-82-7	292-604-8	50	N.D.
23	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	50	N.D.
24	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	50	N.D.
25	Anthracene oil, anthracene paste	90640-81-6	292-603-2	50	N.D.

No.	Items	CAS No.	EC No.	MDL(mg/kg)	Total(mg/kg)
26	Anthracene oil	90640-80-5	292-602-7	50	N.D.
27	2,4-dinitrotoluene	121-14-2	204-450-0	50	N.D.
28	Acrylamide	79-06-1	201-173-7	50	N.D.
29	Trichloroethylene	79-01-6	201-167-4	50	N.D.
30	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	50	N.D.
31	Sodium chromate	7775-11-3	231-889-5	50	N.D.
32	Potassium dichromate	7778-50-9	231-906-6	50	N.D.
33	Potassium chromate	7789-00-6	232-140-5	50	N.D.
34	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4	50	N.D.
35	Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	50	N.D.
36	Ammonium dichromate	7789-09--5	232-143-1	50	N.D.
37	Cobalt(II) sulphate	10124-43-3	233-334-2	50	N.D.
38	Cobalt(II) dinitrate	10141-05-6	233-402-1	50	N.D.
39	Cobalt(II) diacetate	71-48-7	200-755-8	50	N.D.
40	Cobalt(II) carbonate	513-79-1	208-169-4	50	N.D.
41	Chromium trioxide	1333-82-0	215-607-8	50	N.D.
42	Acids generated from chromium trioxide and their oligomers Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5	50	N.D.
43	2-methoxyethanol	109-86-4	203-713-7	50	N.D.
44	2-ethoxyethanol	110-80-5	203-804-1	50	N.D.
45	Strontium chromate	7789-06-2	232-142-6	50	N.D.
46	Hydrazine	7803-57-8 302-01-2	206-114-9	50	N.D.
47	2-ethoxyethyl acetate	111-15-9	203-839-2	50	N.D.
48	1-Methyl-2-pyrrolidone (NMP)	872-50-4	212-828-1	50	N.D.
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	50	N.D.

****

No.	Items	CAS No.	EC No.	MDL(mg/kg)	Total(mg/kg)
50	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	50	N.D.
51	1,2,3-trichloropropane	96-18-4	202-486-1	50	N.D.
52	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-	50	N.D.
53	Trilead diarsenate	3687-31-8	222-979-5	50	N.D.
54	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	50	N.D.
55	Phenolphthalein	77-09-8	201-004-7	50	N.D.
56	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	50	N.D.
57	N,N-dimethylacetamide	127-19-5	204-826-4	50	N.D.
58	Lead styphnate	15245-44-0	239-290-0	50	N.D.
59	Lead dipicrate	6477-64-1	229-335-2	50	N.D.
60	Lead diazide, Lead azide	13424-46-9	236-542-1	50	N.D.
61	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	50	N.D.
62	Dichromium tris(chromate)	24613-89-6	246-356-2	50	N.D.
63	Calcium arsenate	7778-44-1	231-904-5	50	N.D.
64	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	50	N.D.
65	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	50	N.D.
66	Arsenic acid	7778-39-4	231-901-9	50	N.D.
67	Aluminosilicate Refractory Ceramic Fibres	650-017-00-8（index number）	-	50	N.D.
68	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	50	N.D.
69	2-Methoxyaniline, o-Anisidine	90-04-0	201-963-1	50	N.D.
70	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	50	N.D.
71	1,2-dichloroethane	107-06-2	203-458-1	50	N.D.
72	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	50	N.D.
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	50	N.D.

****

No.	Items	CAS No.	EC No.	MDL(mg/kg)	Total(mg/kg)
74	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	50	N.D.
75	Formamide	(75-12-7)	200-842-0	50	N.D.
76	Diboron trioxide	1303-86-2	215-125-8	50	N.D.
77	[4-[[4-anilino-1-naphthyl][4-(dimethyl amino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	50	N.D.
78	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien -1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	50	N.D.
79	4,4'-bis(dimethylamino)benzopheno ne (Michler's ketone)	90-94-8	202-027-5	50	N.D.
80	4,4'-bis(dimethylamino)-4''-(methyla mino)trityl alcohol	561-41-1	209-218-2	50	N.D.
81	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	423-400-0	50	N.D.
82	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-tr iazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	50	N.D.
83	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	50	N.D.
84	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	112-49-2	203-977-3	50	N.D.
85	Trilead dioxide phosphonate	12141-20-7	235-252-2	50	N.D.
86	Trilead bis(carbonate) dihydroxide	1319-46-6	215-290-6	50	N.D.
87	Tricosafluorododecanoic acid	307-55-1	206-203-2	50	N.D.
88	Tetralead trioxide sulphate	12202-17-4	235-380-9	50	N.D.
89	Tetraethyllead	78-00-2	201-075-4	50	N.D.
90	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	50	N.D.
91	Silicic acid, lead salt	11120-22-2	234-363-3	50	N.D.
92	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD),the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008	68784-75-8	272-271-5	50	N.D.

****

No.	Items	CAS No.	EC No.	MDL(mg/kg)	Total(mg/kg)
93	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	50	N.D.
94	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	50	N.D.
95	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	50	N.D.
96	Orange lead (lead tetroxide)	1314-41-6	215-235-6	50	N.D.
97	o-toluidine	95-53-4	202-429-0	50	N.D.
98	o-aminoazotoluene	97-56-3	202-591-2	50	N.D.
99	N-pentyl-isopentylphthalate	776297-69-9	-	50	N.D.
100	N-methylacetamide	79-16-3	201-182-6	50	N.D.
101	N,N-dimethylformamide	(68-12-2)	200-679-5	50	N.D.
102	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	50	N.D.
103	Methoxyacetic acid	625-45-6	210-894-6	50	N.D.
104	Lead titanium zirconium oxide	12626-81-2	235-727-4	50	N.D.
105	Lead titanium trioxide	12060-00-3	235-038-9	50	N.D.
106	Lead oxide sulfate	12036-76-9	234-853-7	50	N.D.
107	Lead monoxide (lead oxide)	1317-36-8	215-267-0	50	N.D.
108	Lead dinitrate	10099-74-8	233-245-9	50	N.D.
109	Lead cyanamidate	20837-86-9	244-073-9	50	N.D.
110	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	50	N.D.
111	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	50	N.D.
112	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	50	N.D.
113	Henicosafluoroundecanoic acid	2058-94-8	218-165-4	50	N.D.
114	Furan	110-00-9	203-727-3	50	N.D.
115	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	50	N.D.
116	Dioxobis(stearato)trilead	12578-12-0	235-702-8	50	N.D.

****

No.	Items	CAS No.	EC No.	MDL(mg/kg)	Total(mg/kg)
117	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	50	N.D.
118	Dimethyl sulphate	77-78-1	201-058-1	50	N.D.
119	Diisopentyl phthalate	605-50-5	210-088-4	50	N.D.
120	Diethyl sulphate	64-67-5	200-589-6	50	N.D.
121	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	50	N.D.
122	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	204-650-8	50	N.D.
123	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	50	N.D.
124	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	214-604-9	50	N.D.
125	Biphenyl-4-ylamine	92-67-1	202-177-1	50	N.D.
126	Acetic acid, lead salt, basic	51404-69-4	257-175-3	50	N.D.
127	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	50	N.D.
128	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	50	N.D.
129	4-Nonylphenol, branched and linear	-	-	50	N.D.
130	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	50	N.D.
131	4-aminoazobenzene	(60-09-3)	200-453-6	50	N.D.
132	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	-	-	50	N.D.
133	4,4'-oxydianiline and its salts	-	-	50	N.D.
134	4,4'-oxydianiline	101-80-4	202-977-0	50	N.D.
135	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	50	N.D.
136	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazol idine	143860-04-2	421-150-7	50	N.D.
137	1,2-diethoxyethane	629-14-1	211-076-1	50	N.D.
138	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	284-032-2	50	N.D.
139	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	50	N.D.
140	Dipentyl phthalate (DPP)	131-18-0	205-017-9	50	N.D.
141	Cadmium oxide	1306-19-0	215-146-2	50	N.D.

****

No.	Items	CAS No.	EC No.	MDL(mg/kg)	Total(mg/kg)
142	Cadmium	7440-43-9	231-152-8	50	N.D.
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	50	N.D.
144	4-Nonylphenol, branched and linear, ethoxylated (substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof)	-	-	50	N.D.
145	Trixylyl phosphate	25155-23-1	246-677-8	50	N.D.
146	Lead di(acetate)	301-04-2	206-104-4	50	N.D.
147	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	50	N.D.
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	50	N.D.
149	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	50	N.D.
150	Dihexyl phthalate	84-75-3	201-559-5	50	N.D.
151	Cadmium sulphide	1306-23-6	215-147-8	50	N.D.
152	Sodium peroxometaborate	(7632-04-4)	231-556-4	50	N.D.
153	Sodium perborate, perboric acid, sodium salt	15120-21-5, 11138-47-9	239-172-9, 234-390-0	50	N.D.
154	Cadmium chloride	10108-64-2	233-296-7	50	N.D.
155	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	50	N.D.

****

No.	Items	CAS No.	EC No.	**MDL(mg/kg)**	**Total(mg/kg)**
156	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	50	N.D.
157	Cadmium sulphate	10124-36-4, 31119-53-6	233-331-6	50	N.D.
158	Cadmium fluoride	7790-79-6	232-222-0	50	N.D.
159	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	50	N.D.
160	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	50	N.D.
161	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	50	N.D.
162	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] covering any of the individual stereoisomers of [1] and [2] or any combination thereof 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	50	N.D.
163	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters, 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters, 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68648-93-1, 68515-51-5	272-013-1, 271-094-0	50	N.D.
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	50	N.D.
165	Nitrobenzene	98-95-3	202-716-0	50	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	50	N.D.
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	50	N.D.
168	1,3-propanesultone	1120-71-4	214-317-9	50	N.D.
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	50	N.D.

****

No.	Items	CAS No.	EC No.	**MDL(mg/kg)**	**Total(mg/kg)**
170	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	50	N.D.
171	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	201-245-8	50	N.D.
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2, 3830-45-3, 3108-42-7	206-400-3, - 221-470-5	50	N.D.
173	4-heptylphenol, branched and linear	-	-	50	N.D.
174	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	-	50	N.D.
175	Dechlorane[including all trans and cis isomers and their combinations]	-	-	50	N.D.
176	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	50	N.D.
177	Chrysene	218-01-9, 1719-03-5	205-923-4	50	N.D.
178	Cadmium nitrate	10022-68-1, 10325-94-7	233-710-6	50	N.D.
179	Cadmium hydroxide	21041-95-2	244-168-5	50	N.D.
180	Cadmium carbonate	513-78-0	208-168-9	50	N.D.
181	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	50	N.D.
182	Terphenyl, hydrogenated	61788-32-7	262-967-7	50	N.D.
183	Octamethylcyclotetrasiloxane(D4)	556-67-2	209-136-7	50	N.D.
184	Lead	7439-92-1	231-100-4	50	N.D.
185	Ethylenediamine(EDA)	107-15-3	203-468-6	50	N.D.
186	Dodecamethylcyclohexasiloxane(D6)	540-97-6	208-762-8	50	N.D.
187	Disodium octaborate	12008-41-2	234-541-0	50	N.D.
188	Dicyclohexyl phthalate（DCHP）	84-61-7	201-545-9	50	N.D.
189	Decamethylcyclopentasiloxane（D5）	541-02-6	208-764-9	50	N.D.
190	Benzo[ghi]perylene	191-24-2	205-883-8	50	N.D.
191	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	209-008-0	50	N.D.
192	Pyrene	129-00-0; 1718-52-1	204-927-3	50	N.D.
193	Phenanthrene	85-01-8	201-581-5	50	N.D.

****

194	Fluoranthene	206-44-0; 93951-69-0	205-912-4	50	N.D.
195	Benzo[k]fluoranthene	207-08-9	205-916-6	50	N.D.
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	50	N.D.
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	50	N.D.

Tested part(s):

(1) Battery.

Note:

- N.D. = Not Detected or less than MDL
- 0.1%=1000mg/kg
- Carcinogenic, Mutagenic or toxic to Reproduction (CMR), meeting the criteria for classification in category 1 or 2 in accordance with Directive 67/548/EEC, Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) according to the criteria in Annex of XIII of the REACH Regulation, and/or Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to human health or the environment of an equivalent level of concern as those above (e.g. endocrine disrupters)
- * = Calculated concentration of Cobalt Dichloride($CoCl_2$) is based on the identified heavy metal and anion result. Calculated concentration of Diarsenic Pentaoxide(As_2O_5), Diarsenic Trioxide(As_2O_3), Sodium Dichromate, Dihydrate, Lead Hydrogen Arsenate, Boric acid , Sodium chromate , Potassium chromate , and Triethyl Arsenate etc.are based on the identified metal and anion result.
  Identity of above metal substances present in the article has to be further confirmed.
- ** = Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tributyltin, TBT results. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is required if the exact amount of TBTO has to be determined.

  *** = Calculated concentration of these coal-tar products is based on the identified polycyclic aromatic hydrocarbons（PAHs）and. heterocyclic compounds

  **** = Calculated concentration of these Aluminosilicate and Zirconia Aluminosilicate is based on the identified aluminum and zirconium results by ICP-AES

  http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

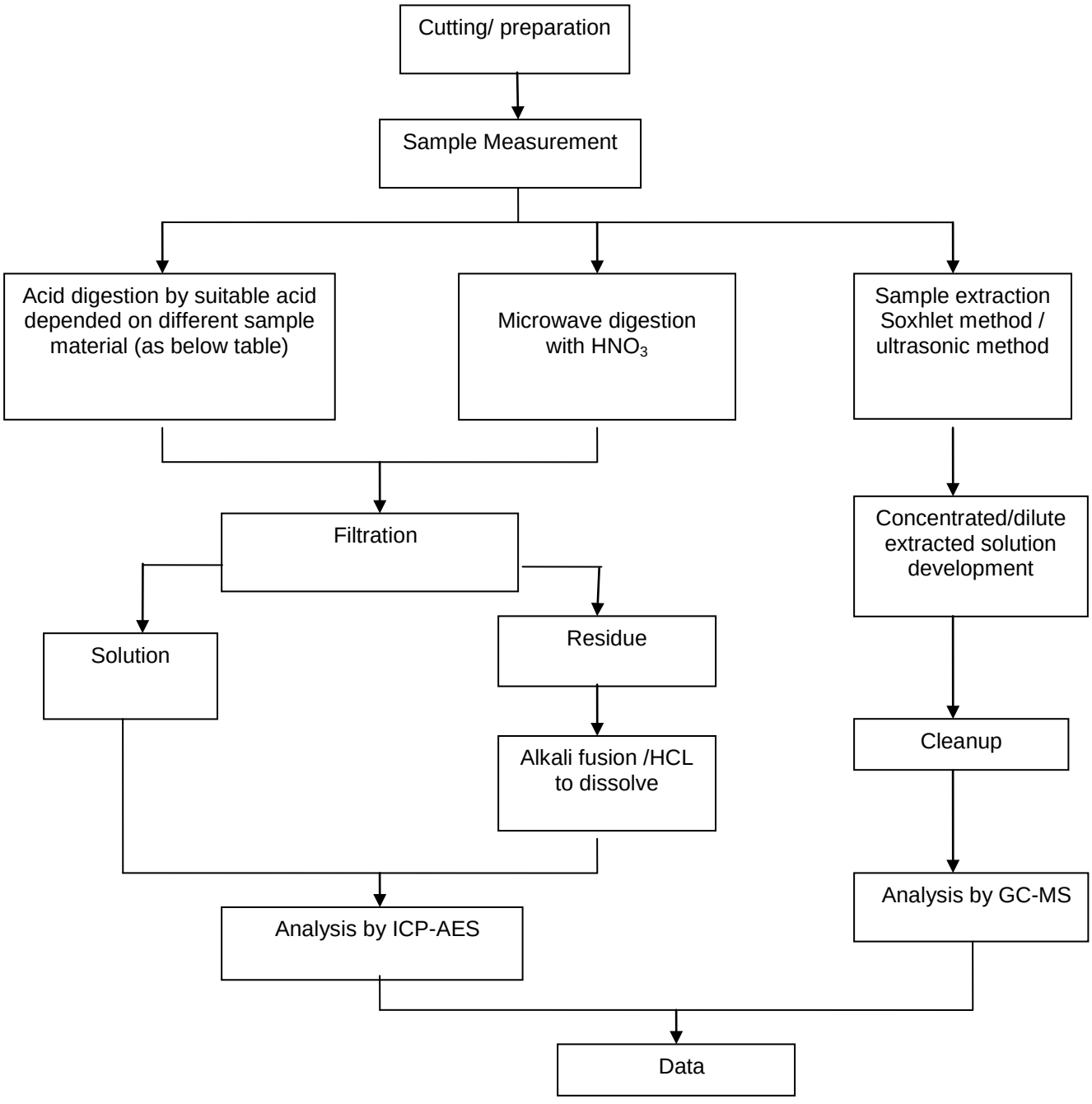
  If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory

  # = Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as a average value because of the whole specimen is regarded as constituting from the homogeneous material. If according to the provision, the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk. Flow chart appendix is included.

  Photo appendix is included.

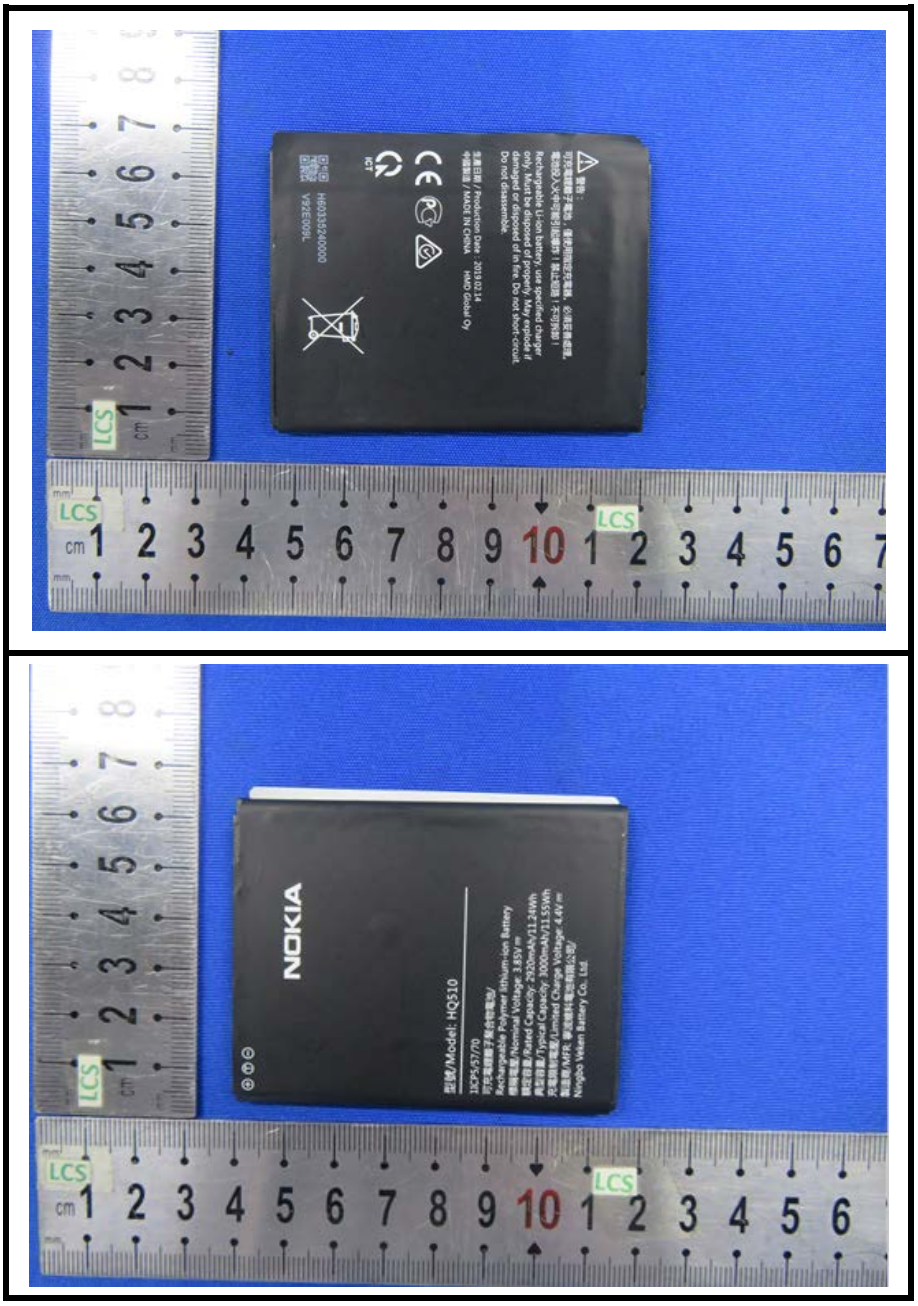
****

Appendix


Cutting/ preparation
Sample Measurement
Acid digestion by suitable acid depended on different sample material (as below table)
Microwave digestion with HNO_3
Sample extraction Soxhlet method / ultrasonic method
Filtration
Concentrated/dilute extracted solution development
Solution
Residue
Alkali fusion /HCL to dissolve
Cleanup
Analysis by ICP-AES
Analysis by GC-MS
Data

****

AppendixII
Photograph of Sample



LCS authenticate the photo on original report only

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of LCS, this report can't be reproduced except in full.

Revision History

Revision	Issue Date	Revision Content	Revised By