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Shenzhen Center for Analysis and Measurement of Material Surface

Test Report

Report No.: SAC2017-08396E-R1

Date: Jan.16, 2018

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Customer :

Address :

Sample Information:

Sample Name : Charging Cable

Sample Description : Charging Cable

Model/P.O. No. : MC09

Item/Lot No. : /

Material : /

Surface treatment : /

Buyer : /

Supplier : /

Manufacturer : /

Received Date : Dec.28, 2017

Test Period : Dec.28, 2017~Jan.16, 2018

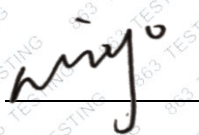
Test Requested : As specified by customer, to determine the 181 kinds of substances of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH.

Test Method : Please refer to the following pages.

Test Results : Please refer to the following pages.

Regulation Request : Under REACH Regulation(EC) No 1907/2006, suppliers of articles which contain SVHC in a concentration above 0.1%(w/w) have to provide sufficient information, to articles recipients, to a consumer within 45 days of the receipt of the request. This information must ensure safe use of the article and as minimum contain the name of the substance.

Test Conclusion: The test results correspond with the REACH Regulation (EC) No 1907/2006.

Edited by: 

Audited by: 

Approved by: 





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Test Result(s):

No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
1	Anthracene	120-12-7	US EPA 3550C:2007 US EPA 8270D:2014	GC-MS	N.D.	0.01
2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2		GC-MS	N.D.	0.01
3	Short Chain Chlorinated Paraffines(SCCPs)	85535-84-8		GC-MS	N.D.	0.01
4	2,4-Dinitrotoluene	121-14-2		GC-MS	N.D.	0.01
5	Anthracene oil	90640-80-5		GC-MS	N.D.	0.01
6	Anthracene oil, anthracene paste, distn. lights	91995-17-4		GC-MS	N.D.	0.01
7	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2		GC-MS	N.D.	0.01
8	Anthracene oil, anthracene-low	90640-82-7		GC-MS	N.D.	0.01
9	Anthracene oil, anthracene paste	90640-81-6		GC-MS	N.D.	0.01
10	Pitch, coal tar, high-temp.	65996-93-2		GC-MS	N.D.	0.01
11	Tris(2-chloroethyl) phosphate	115-96-8		GC-MS	N.D.	0.01
12	2-Methoxyethanol	109-86-4		GC-MS	N.D.	0.01
13	2-Ethoxyethanol	110-80-5		GC-MS	N.D.	0.01
14	1,2-Benzendicarboxylic acid, di-(C7-11)-branched and linear alkyl esters	68515-42-4		GC-MS	N.D.	0.01
15	Hydrazine; Hydrazine base; Diamine; Hydrazine anhydrous	7803-57-8 302-01-2		GC-MS	N.D.	0.01
16	1-Methyl-2-pyrrolidone	872-50-4		GC-MS	N.D.	0.01
17	1,2,3-Trichloropropane	96-18-4		GC-MS	N.D.	0.01
18	1,2-Benzenedicarboxylic acid, di-(C6-8)-branched and linear alkyl esters	71888-89-6		GC-MS	N.D.	0.01
19	Trichloroethylene	79-01-6		GC-MS	N.D.	0.01
20	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	111-15-9		GC-MS	N.D.	0.01



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No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
21	4,4'-Diaminodiphenylmethane	101-77-9	ISO 17234:2010	GC-MS	N.D.	0.01
22	Dibutyl phthalate(DBP)	84-74-2	US EPA 3540C:1996 US EPA 8270D:2014	GC-MS	N.D.	0.01
23	Bis(2-ethyl(hexyl) phthalate)(DEHP)	117-81-7		GC-MS	0.085	0.01
24	Diisobutyl Phthalate (DIBP)	84-69-5		GC-MS	N.D.	0.01
25	Benzyl butyl phthalate (BBP)	85-68-7		GC-MS	N.D.	0.01
26	Hexabromocyclododecane(HBC DD)	25637-99-4	US EPA 3550C:2007 US EPA 8270D:2014	GC-MS	N.D.	0.01
27	4-(1,1,3,3-tetramethylbutyl)phe nol, (4-tert-Octylphenol)	140-66-9		GC-MS	N.D.	0.01
28	1,2-Dichloroethane	107-06-2		GC-MS	N.D.	0.01
29	Bis(2-methoxyethyl) ether	111-96-6		GC-MS	N.D.	0.01
30	N,N-dimethylacetamide	127-19-5		GC-MS	N.D.	0.01
31	Phenolphthalein	77-09-8		GC-MS	N.D.	0.01
32	2,2'-dichloro-4,4'-methylenedian iline (MOCA)	101-14-4		GC-MS	N.D.	0.01
33	Formaldehyde, oligomeric reaction products with aniline	25214-704		GC-MS	N.D.	0.01
34	Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8		GC-MS	N.D.	0.01
35	2-Methoxyaniline; o-Anisidine	90-04-0		GC-MS	N.D.	0.01
36	Bis(tributyltin) oxide(TBTO)	56-35-9	ISO 17353:2004	GC-MS	N.D.	0.01
37	Acrylamide	79-06-1	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
38	Lead hydrogen arsenate	7784-40-9	US EPA 3052:1996 US EPA 6010C:2007	ICP-OES	N.D.	0.01
39	Triethyl arsenate	15606-95-8		ICP-OES	N.D.	0.01
40	Diarsenic pentaoxide	1303-28-2	US EPA 3052:1996 US EPA 6010C:2007	ICP-OES	N.D.	0.01
41	Diarsenic trioxide	1327-53-3		ICP-OES	N.D.	0.01
42	Cobalt dichloride	7646-79-9	US EPA 3052:1996 EN 14582:2007	ICP-OES IC	N.D.	0.01



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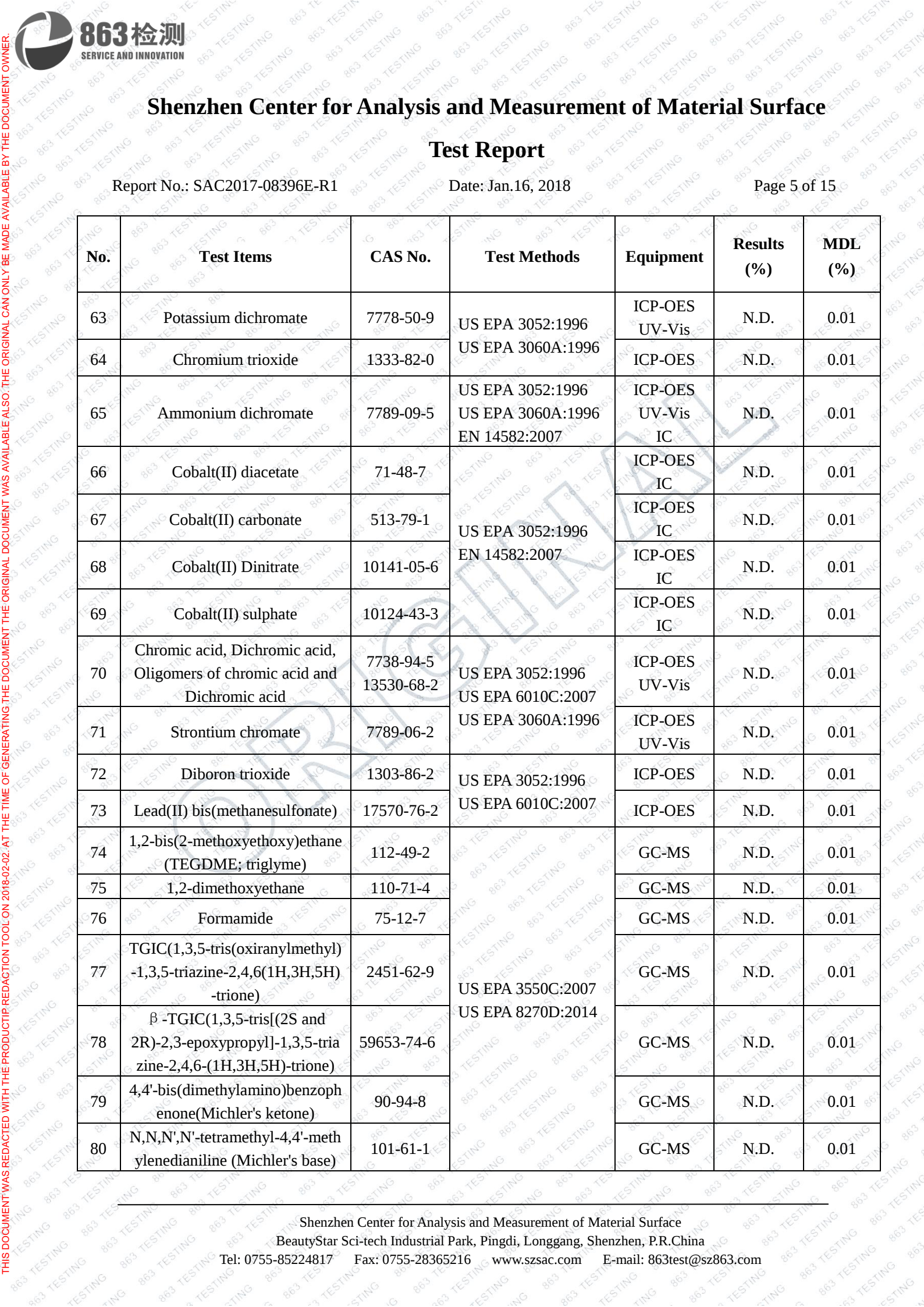
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No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
43	Sodium dichromate	7789-12-0	US EPA 3052:1996 US EPA 3060A:1996	ICP-OES UV-Vis	N.D.	0.01
44	Lead chromate	7758-97-6	US EPA 3052:1996 US EPA 3060A:1996 US EPA 6010C:2007	ICP-OES UV-Vis	N.D.	0.01
45	Lead chromate molybdate sulfate red	12656-85-8		ICP-OES UV-Vis	N.D.	0.01
46	Dichromium tris(chromate)	24613-89-6		ICP-OES UV-Vis	N.D.	0.01
47	Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9		ICP-OES UV-Vis	N.D.	0.01
48	Lead chromate	1344-37-2		ICP-OES	N.D.	0.01
49	Aluminosilicate, Refractory Ceramic Fibres	/	US EPA 3052:1996 US EPA 6010C:2007	ICP-OES	N.D.	0.01
50	Zirconia Aluminosilicate, Refractory Ceramic Fibres	/		ICP-OES	N.D.	0.01
51	Pentazinc chromate octahydroxide	49663-84-5		ICP-OES	N.D.	0.01
52	Lead azide Lead diazide	13424-46-9		ICP-OES	N.D.	0.01
53	Lead styphnate	15245-44-0		ICP-OES	N.D.	0.01
54	Lead dipicrate	6477-64-1		ICP-OES	N.D.	0.01
55	Arsenic acid	7778-39-4		ICP-OES	N.D.	0.01
56	Calcium arsenate	7778-44-1		ICP-OES	N.D.	0.01
57	Trilead diarsenate	3687-31-8		ICP-OES	N.D.	0.01
58	Boric acid	10043-35-3 11113-50-1		ICP-OES	N.D.	0.01
59	Disodium tetraborate, anhydrous, Heptahydrate, Decahydrate	1330-43-4 12179-04-3 1303-96-4	US EPA 3052:1996 US EPA 3060A:1996	ICP-OES	N.D.	0.01
60	Tetraboron disodium heptaoxide, hydrate	12267-73-1		ICP-OES	N.D.	0.01
61	Sodium chromate	7775-11-3		ICP-OES UV-Vis	N.D.	0.01
62	Potassium chromate	7789-00-6		ICP-OES UV-Vis	N.D.	0.01



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No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
63	Potassium dichromate	7778-50-9	US EPA 3052:1996 US EPA 3060A:1996	ICP-OES UV-Vis	N.D.	0.01
64	Chromium trioxide	1333-82-0		ICP-OES	N.D.	0.01
65	Ammonium dichromate	7789-09-5	US EPA 3052:1996 US EPA 3060A:1996 EN 14582:2007	ICP-OES UV-Vis IC	N.D.	0.01
66	Cobalt(II) diacetate	71-48-7	US EPA 3052:1996 EN 14582:2007	ICP-OES IC	N.D.	0.01
67	Cobalt(II) carbonate	513-79-1		ICP-OES IC	N.D.	0.01
68	Cobalt(II) Dinitrate	10141-05-6		ICP-OES IC	N.D.	0.01
69	Cobalt(II) sulphate	10124-43-3		ICP-OES IC	N.D.	0.01
70	Chromic acid, Dichromic acid, Oligomers of chromic acid and Dichromic acid	7738-94-5 13530-68-2	US EPA 3052:1996 US EPA 6010C:2007	ICP-OES UV-Vis	N.D.	0.01
71	Strontium chromate	7789-06-2	US EPA 3060A:1996	ICP-OES UV-Vis	N.D.	0.01
72	Diboron trioxide	1303-86-2	US EPA 3052:1996	ICP-OES	N.D.	0.01
73	Lead(II) bis(methanesulfonate)	17570-76-2	US EPA 6010C:2007	ICP-OES	N.D.	0.01
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	US EPA 3550C:2007 US EPA 8270D:2014	GC-MS	N.D.	0.01
75	1,2-dimethoxyethane	110-71-4		GC-MS	N.D.	0.01
76	Formamide	75-12-7		GC-MS	N.D.	0.01
77	TGIC(1,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6-(1H,3H,5H) -trione)	2451-62-9		GC-MS	N.D.	0.01
78	β-TGIC(1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-tria zine-2,4,6-(1H,3H,5H)-trione)	59653-74-6		GC-MS	N.D.	0.01
79	4,4'-bis(dimethylamino)benzoph enone(Michler's ketone)	90-94-8		GC-MS	N.D.	0.01
80	N,N,N',N'-tetramethyl-4,4'-meth ylenedianiline (Michler's base)	101-61-1		GC-MS	N.D.	0.01



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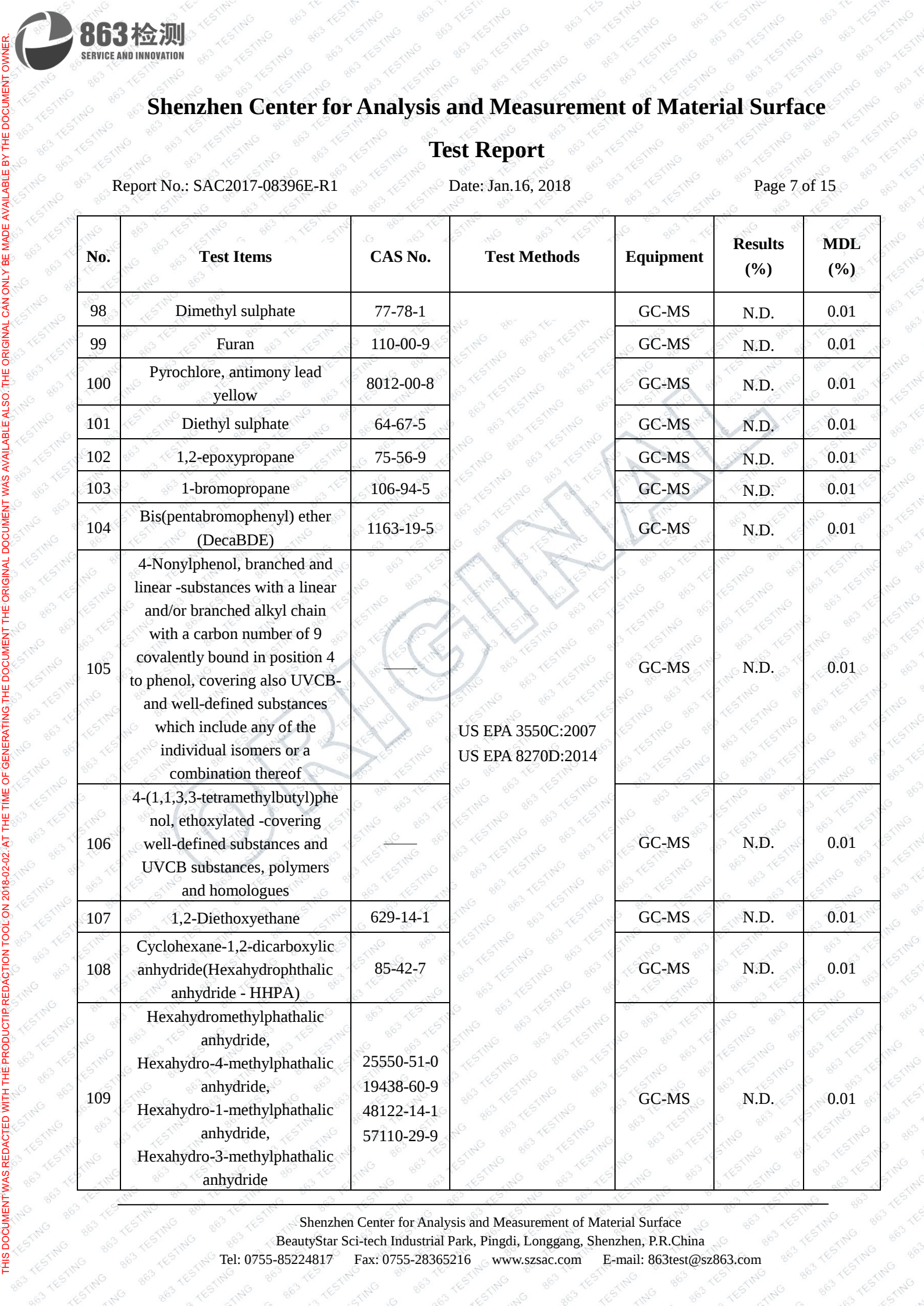
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No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
81	4,4'-bis(dimethylamino)-4''-(methylanilino)trityl alcohol	561-41-1	US EPA 3550C:2007 US EPA 8270D:2014	GC-MS	N.D.	0.01
82	4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9		HPLC	N.D.	0.01
83	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
84	α, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0		HPLC	N.D.	0.01
85	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7		GC-MS	N.D.	0.01
86	Biphenyl-4-ylamine	92-67-1		GC-MS	N.D.	0.01
87	4,4'-methylenedi-o-toluidine	838-88-0		GC-MS	N.D.	0.01
88	o-Toluidine; 2-Aminotoluene	95-53-4		GC-MS	N.D.	0.01
89	o-aminoazotoluene	97-56-3		GC-MS	N.D.	0.01
90	4-Aminoazobenzene	60-09-3		GC-MS	N.D.	0.01
91	4,4'-oxydianiline and its salts	101-80-4		GC-MS	N.D.	0.01
92	6-methoxy-m-toluidine (p-cresidine)	120-71-8		GC-MS	N.D.	0.01
93	Dibutyltin dichloride (DBT)	683-18-1	ISO 17353:2004	GC-MS	N.D.	0.01
94	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3		GC-MS	N.D.	0.01
95	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	US EPA 3550C:2007 US EPA 8270D:2014	GC-MS	N.D.	0.01
96	N-methylacetamide	79-16-3		GC-MS	N.D.	0.01
97	Dinoseb	88-85-7		GC-MS	N.D.	0.01



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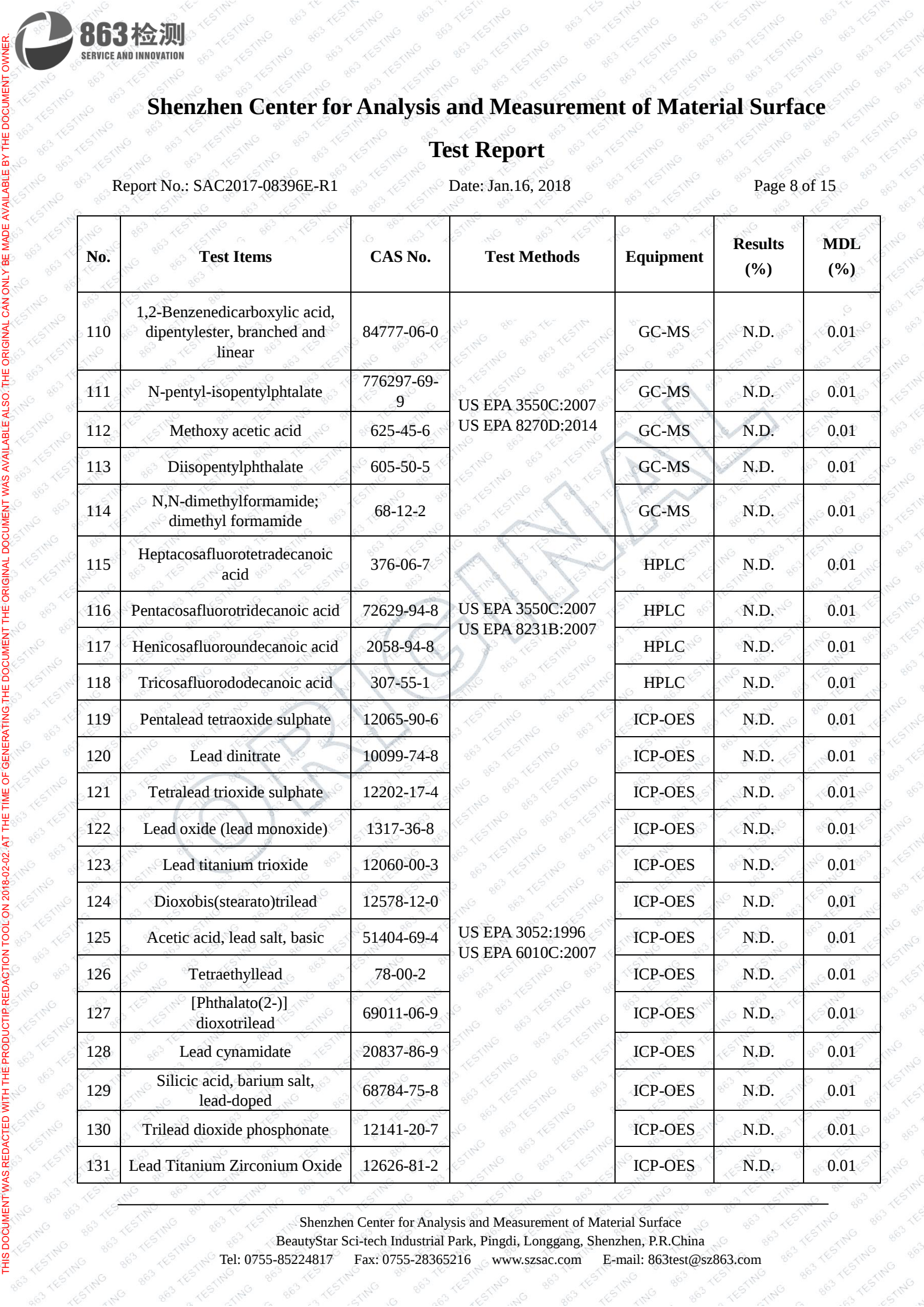
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No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
98	Dimethyl sulphate	77-78-1	US EPA 3550C:2007 US EPA 8270D:2014	GC-MS	N.D.	0.01
99	Furan	110-00-9		GC-MS	N.D.	0.01
100	Pyrochlore, antimony lead yellow	8012-00-8		GC-MS	N.D.	0.01
101	Diethyl sulphate	64-67-5		GC-MS	N.D.	0.01
102	1,2-epoxypropane	75-56-9		GC-MS	N.D.	0.01
103	1-bromopropane	106-94-5		GC-MS	N.D.	0.01
104	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5		GC-MS	N.D.	0.01
105	4-Nonylphenol, branched and linear -substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	—		GC-MS	N.D.	0.01
106	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	—		GC-MS	N.D.	0.01
107	1,2-Diethoxyethane	629-14-1		GC-MS	N.D.	0.01
108	Cyclohexane-1,2-dicarboxylic anhydride(Hexahydrophthalic anhydride - HHPA)	85-42-7		GC-MS	N.D.	0.01
109	Hexahydromethylphthalic anhydride,	25550-51-0		GC-MS	N.D.	0.01
	Hexahydro-4-methylphthalic anhydride,	19438-60-9				
	Hexahydro-1-methylphthalic anhydride,	48122-14-1				
	Hexahydro-3-methylphthalic anhydride	57110-29-9				



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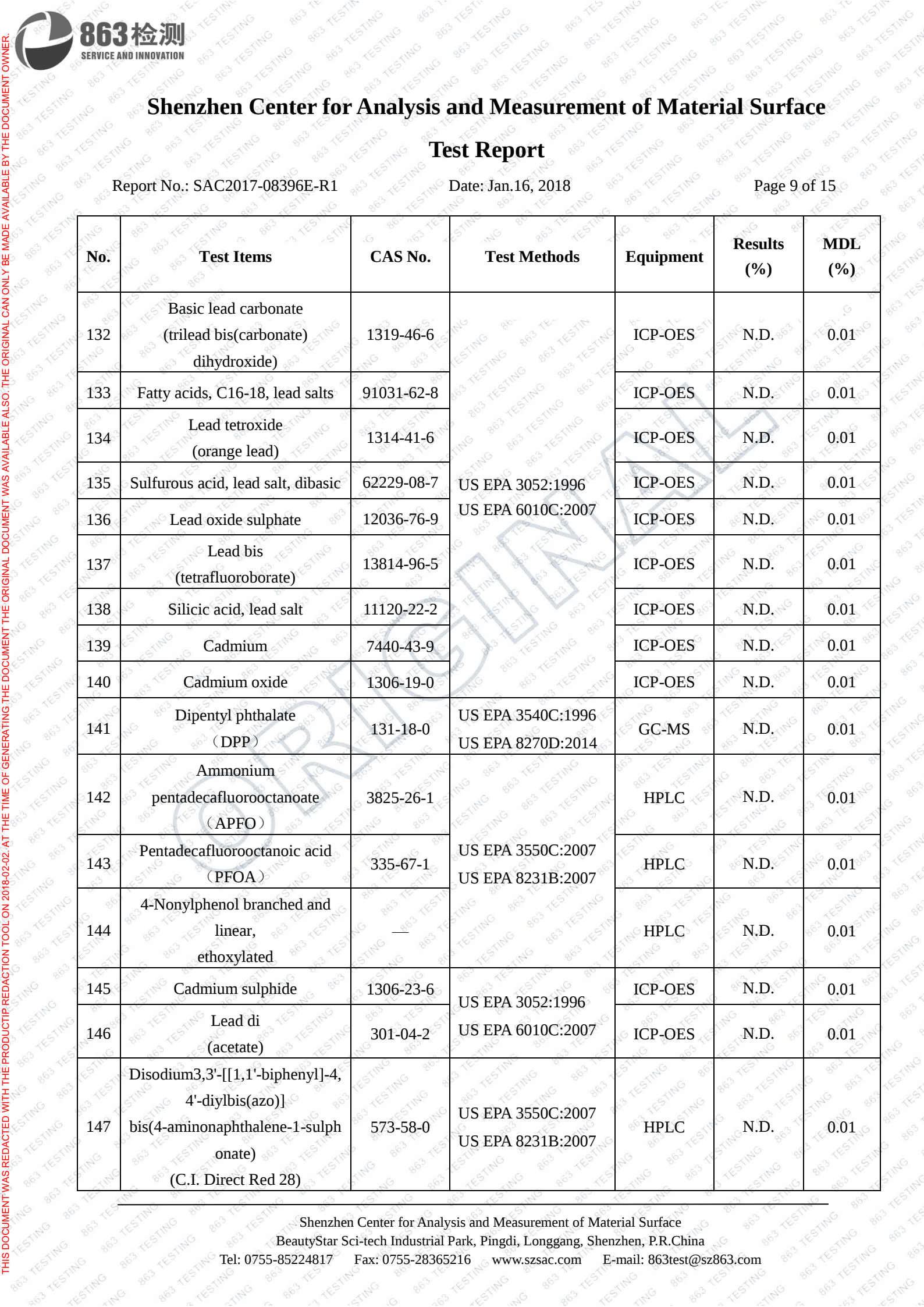
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No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
110	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	US EPA 3550C:2007 US EPA 8270D:2014	GC-MS	N.D.	0.01
111	N-pentyl-isopentylphthalate	776297-69-9		GC-MS	N.D.	0.01
112	Methoxy acetic acid	625-45-6		GC-MS	N.D.	0.01
113	Diisopentylphthalate	605-50-5		GC-MS	N.D.	0.01
114	N,N-dimethylformamide; dimethyl formamide	68-12-2		GC-MS	N.D.	0.01
115	Heptacosafuorotetradecanoic acid	376-06-7	US EPA 3550C:2007 US EPA 8231B:2007	HPLC	N.D.	0.01
116	Pentacosafuorotridecanoic acid	72629-94-8		HPLC	N.D.	0.01
117	Henicosafuoroundecanoic acid	2058-94-8		HPLC	N.D.	0.01
118	Tricosafuorododecanoic acid	307-55-1		HPLC	N.D.	0.01
119	Pentalead tetraoxide sulphate	12065-90-6	US EPA 3052:1996 US EPA 6010C:2007	ICP-OES	N.D.	0.01
120	Lead dinitrate	10099-74-8		ICP-OES	N.D.	0.01
121	Tetralead trioxide sulphate	12202-17-4		ICP-OES	N.D.	0.01
122	Lead oxide (lead monoxide)	1317-36-8		ICP-OES	N.D.	0.01
123	Lead titanium trioxide	12060-00-3		ICP-OES	N.D.	0.01
124	Dioxobis(stearato)trilead	12578-12-0		ICP-OES	N.D.	0.01
125	Acetic acid, lead salt, basic	51404-69-4		ICP-OES	N.D.	0.01
126	Tetraethyllead	78-00-2		ICP-OES	N.D.	0.01
127	[Phthalato(2-)] dioxotrilead	69011-06-9		ICP-OES	N.D.	0.01
128	Lead cynamidate	20837-86-9		ICP-OES	N.D.	0.01
129	Silicic acid, barium salt, lead-doped	68784-75-8		ICP-OES	N.D.	0.01
130	Trilead dioxide phosphonate	12141-20-7		ICP-OES	N.D.	0.01
131	Lead Titanium Zirconium Oxide	12626-81-2		ICP-OES	N.D.	0.01



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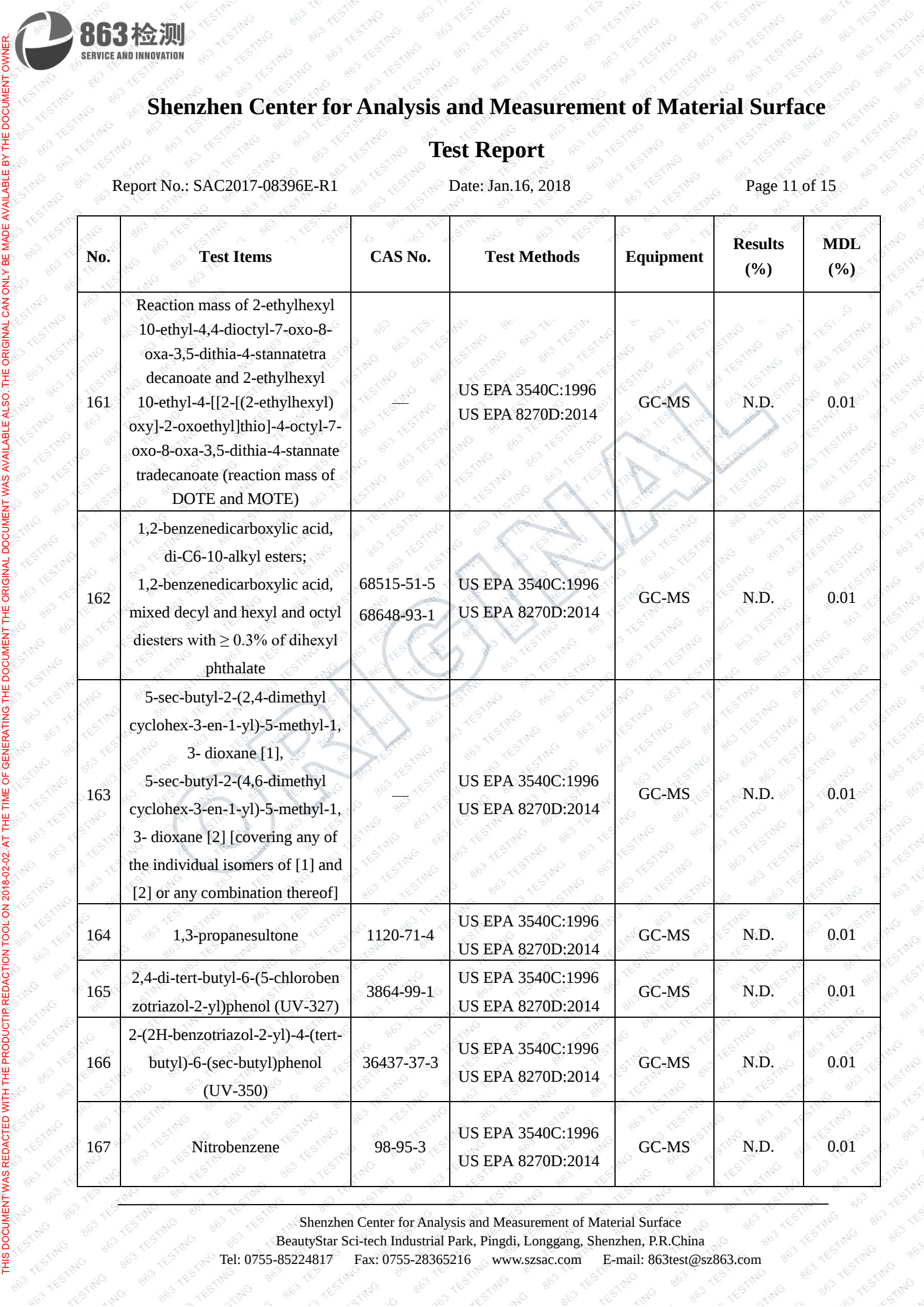
No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
132	Basic lead carbonate (trilead bis(carbonate) dihydroxide)	1319-46-6	US EPA 3052:1996 US EPA 6010C:2007	ICP-OES	N.D.	0.01
133	Fatty acids, C16-18, lead salts	91031-62-8		ICP-OES	N.D.	0.01
134	Lead tetroxide (orange lead)	1314-41-6		ICP-OES	N.D.	0.01
135	Sulfurous acid, lead salt, dibasic	62229-08-7		ICP-OES	N.D.	0.01
136	Lead oxide sulphate	12036-76-9		ICP-OES	N.D.	0.01
137	Lead bis (tetrafluoroborate)	13814-96-5		ICP-OES	N.D.	0.01
138	Silicic acid, lead salt	11120-22-2		ICP-OES	N.D.	0.01
139	Cadmium	7440-43-9		ICP-OES	N.D.	0.01
140	Cadmium oxide	1306-19-0		ICP-OES	N.D.	0.01
141	Dipentyl phthalate (DPP)	131-18-0		GC-MS	N.D.	0.01
142	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	US EPA 3550C:2007 US EPA 8231B:2007	HPLC	N.D.	0.01
143	Pentadecafluorooctanoic acid (PFOA)	335-67-1		HPLC	N.D.	0.01
144	4-Nonylphenol branched and linear, ethoxylated	—		HPLC	N.D.	0.01
145	Cadmium sulphide	1306-23-6	US EPA 3052:1996 US EPA 6010C:2007	ICP-OES	N.D.	0.01
146	Lead di (acetate)	301-04-2		ICP-OES	N.D.	0.01
147	Disodium3,3'-[[1,1'-biphenyl]-4, 4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulph onate) (C.I. Direct Red 28)	573-58-0	US EPA 3550C:2007 US EPA 8231B:2007	HPLC	N.D.	0.01



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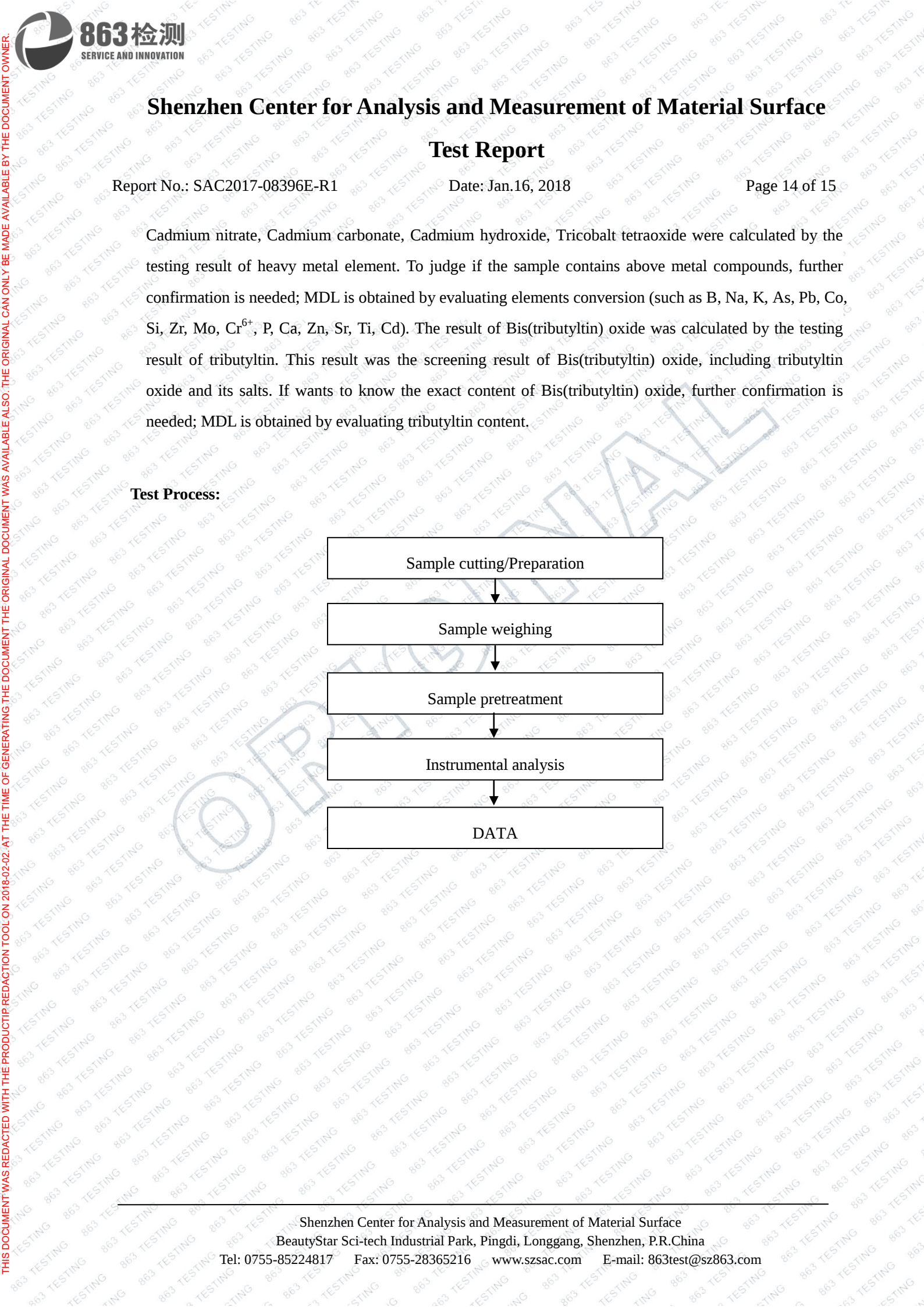
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No.	Test Items	CAS No.	Test Methods	Equipment	Results (%)	MDL (%)
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl) oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannate tradecanoate (reaction mass of DOTE and MOTE)	—	US EPA 3540C:1996 US EPA 8270D:2014	GC-MS	N.D.	0.01
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	US EPA 3540C:1996 US EPA 8270D:2014	GC-MS	N.D.	0.01
163	5-sec-butyl-2-(2,4-dimethyl cyclohex-3-en-1-yl)-5-methyl-1, 3- dioxane [1], 5-sec-butyl-2-(4,6-dimethyl cyclohex-3-en-1-yl)-5-methyl-1, 3- dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	—	US EPA 3540C:1996 US EPA 8270D:2014	GC-MS	N.D.	0.01
164	1,3-propanesultone	1120-71-4	US EPA 3540C:1996 US EPA 8270D:2014	GC-MS	N.D.	0.01
165	2,4-di-tert-butyl-6-(5-chloroben zotriazol-2-yl)phenol (UV-327)	3864-99-1	US EPA 3540C:1996 US EPA 8270D:2014	GC-MS	N.D.	0.01
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	US EPA 3540C:1996 US EPA 8270D:2014	GC-MS	N.D.	0.01
167	Nitrobenzene	98-95-3	US EPA 3540C:1996 US EPA 8270D:2014	GC-MS	N.D.	0.01



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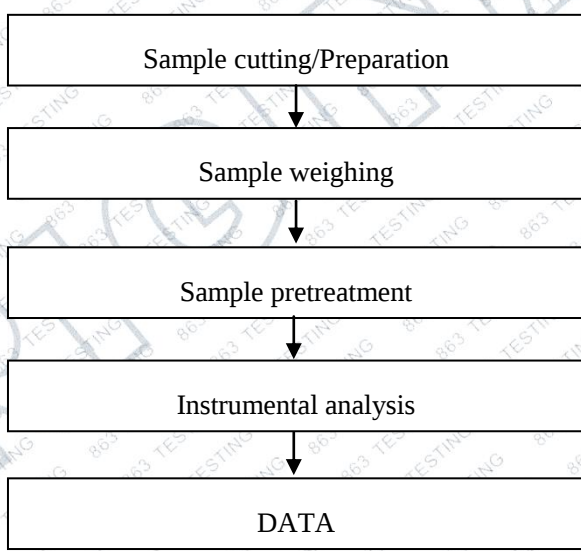
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Cadmium nitrate, Cadmium carbonate, Cadmium hydroxide, Tricobalt tetraoxide were calculated by the testing result of heavy metal element. To judge if the sample contains above metal compounds, further confirmation is needed; MDL is obtained by evaluating elements conversion (such as B, Na, K, As, Pb, Co, Si, Zr, Mo, Cr⁶⁺, P, Ca, Zn, Sr, Ti, Cd). The result of Bis(tributyltin) oxide was calculated by the testing result of tributyltin. This result was the screening result of Bis(tributyltin) oxide, including tributyltin oxide and its salts. If wants to know the exact content of Bis(tributyltin) oxide, further confirmation is needed; MDL is obtained by evaluating tributyltin content.

Test Process:



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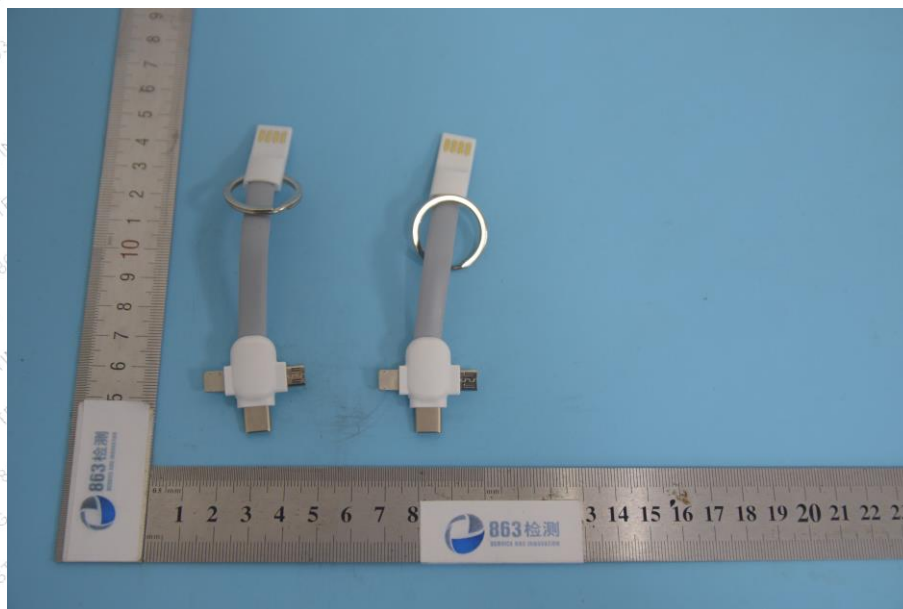
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Photo of the sample



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