

## TEST REPORT

CheckCode:992226  
Report No. : C201801058730-6E

**Applicant:** Zhengjiang Quhua Fluor-Chemistry CO., LTD  
**Address:** Quality inspection center Zhengjiang Quhua Fluor-Chemistry CO., LTD Quzhou City  
Zhejiang province

**Report on the submitted sample(s) said to be:**

**Name:** R410a  
**Material No.:** -----  
**Product Series:** -----  
**Supplier Code:** -----  
**Manufacturer:** -----  
**Factory's Name:** Zhengjiang Quhua Fluor-Chemistry CO., LTD

**Date of Receipt:** Jan.16, 2018      **Test period:** Jan.16, 2018 – Jan.19, 2018

**Test Request:** Please refer to following page(s).

**Test Result:** Please refer to following page(s).

**Conclusion:** Please refer to following page(s).

Edited by Zoe Tang Reviewed by Zhou Shilai Approved by Yoland Yan

Seal of:

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issue date: Jan.19, 2018

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Address: 163 Pingyun Road West of Huangpu Avenue Tianhe District Guangzhou City, 510656, P. R. China

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No.	Test Item	Client and Regulation Requirements	Conclusion
1	REACH (No.1907/2006)	SVHC≤0.06%	Comply

## Material list:

Sample No.	Tested Material Description
1	Clear gas (in metal pot)

Testing groups/ Mixing test groups	Testing requirement	Composition
B1	181 Substances of Very High Concern(SVHC) testing	1

## Test Result(s):

181 SVHC SCREENING ANALYSIS: Substances of Very High Concern

According to Regulation (EC) No.1907/2006 Article 7(2) and 33: Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Test Method: In-house method-GC-MS, HPLC and UPLC-PDA-MS quantification of relevant SVHC (substances of very high concern) in material samples; ICP-OES-screening and UV-VIS-screening after decomposition for determination of relevant SVHC.

Substance name	CAS No.	Reporting Limit (%)	Result (%)
			B1
All tested SVHC	---	---	N.D.

- Remark:
- 1) The table above only shows detected substances, and substances that below Reporting Limit are not reported. Please refer to Appendix for the full list of tested SVHC.
  - 2) \* The substances are tested in term of its respective elements (e.g. As, Pb)
  - 3) \* \* The substances are tested in term of Cr(VI)
  - 4) §The substance is proposed for the identification as target compound only where it contains Michler's ketone(CAS No.:90-94-8) or Michler's base(CAS No.:101-61-1) ≥0.1%(w/w).
  - 5) Anthracene are tested by Polycyclic and heterocyclic Aromatic Hydrocarbons
  - 6) "N.D." = Not Detected (Below Reporting Limit)

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## Appendix

## Full list of tested SVHC:

No.	Substance name	CAS No.	Reporting Limit (%)
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.030
2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.030
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.030
4	Anthracene	120-12-7	0.030
5	Benzyl butyl phthalate (BBP)	85-68-7	0.030
6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.030
7	Bis(tributyltin) oxide (TBTO)	56-35-9	0.030
8	Cobalt dichloride *	7646-79-9	0.005
9	Diarsenic pentaoxide *	1303-28-2	0.005
10	Diarsenic trioxide *	1327-53-3	0.005
11	Dibutyl phthalate (DBP)	84-74-2	0.030
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	0.030
13	Lead hydrogen arsenate *	7784-40-9	0.005
14	Sodium dichromate * *	7789-12-0, 10588-01-9	0.005
15	Triethyl arsenate *	15606-95-8	0.005
16	2,4-dinitrotoluene	121-14-2	0.030
17	Acrylamide	79-06-1	0.030
18	Anthracene oil	90640-80-5	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
19	Anthracene oil, anthracene paste	90640-81-6	0.030
20	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.030
21	Anthracene oil, anthracene paste, distn. lights	91995-17-4	0.030
22	Anthracene oil, anthracene-low	90640-82-7	0.030
23	Diisobutyl phthalate	84-69-5	0.030
24	Lead chromate * *	7758-97-6	0.01
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *	12656-85-8	0.01
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34) *	1344-37-2	0.01
27	Pitch, coal tar, high-temp.	65996-93-2	0.030
28	Tris(2-chloroethyl) phosphate	115-96-8	0.030
29	Ammonium dichromate *	7789-09-5	0.01
30	Boric acid *	10043-35-3, 11113-50-1	0.01
31	Disodium tetraborate, anhydrous *	12179-04-3, 1303-96-4, 1330-43-4	0.01
32	Potassium chromate *	7789-00-6	0.01
33	Potassium dichromate *	7778-50-9	0.01
34	Sodium chromate *	7775-11-3	0.01
35	Tetraboron disodium heptaoxide, hydrate *	12267-73-1	0.01
36	Trichloroethylene	79-01-6	0.030
37	2-ethoxyethanol	110-80-5	0.030
38	2-methoxyethanol	109-86-4	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid *	7738-94-5, - 13530-68-2	0.01
40	Chromium trioxide *	1333-82-0	0.01
41	Cobalt(II) carbonate *	513-79-1	0.01
42	Cobalt(II) diacetate *	71-48-7	0.01
43	Cobalt(II) dinitrate *	10141-05-6	0.01
44	Cobalt(II) sulphate *	10124-43-3	0.01
45	1,2,3-trichloropropane	96-18-4	0.030
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.030
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.030
48	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.030
49	2-ethoxyethyl acetate	111-15-9	0.030
50	Hydrazine	302-01-2, 7803-57-8	0.030
51	Strontium chromate *	7789-06-2	0.01
52	1,2-dichloroethane	107-06-2	0.030
53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.030
54	2-Methoxyaniline, o-Anisidine	90-04-0	0.030
55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.030
56	Aluminosilicate Refractory Ceramic Fibres *	---	0.01
57	Arsenic acid *	7778-39-4	0.01
58	Bis(2-methoxyethyl) ether	111-96-6	0.030
59	Bis(2-methoxyethyl) phthalate	117-82-8	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
60	Calcium arsenate *	7778-44-1	0.01
61	Dichromium tris(chromate) *	24613-89-6	0.01
62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.030
63	Lead diazide, Lead azide *	13424-46-9	0.01
64	Lead dipicrate *	6477-64-1	0.01
65	Lead styphnate *	15245-44-0	0.01
66	N,N-dimethylacetamide	127-19-5	0.030
67	Pentazinc chromate octahydroxide *	49663-84-5	0.01
68	Phenolphthalein	77-09-8	0.030
69	Potassium hydroxyoctaoxidizincatedichromate *	11103-86-9	0.01
70	Trilead diarsenate *	3687-31-8	0.01
71	Zirconia Aluminosilicate Refractory Ceramic Fibres *	---	0.01
72	[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	0.030
73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.030
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	0.030
75	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4	0.030
76	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.030
78	Diboron trioxide *	1303-86-2	0.01
79	Formamide	75-12-7	0.030
80	Lead(II) bis(methanesulfonate) *	17570-76-2	0.01
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.030
82	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.030
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)§	6786-83-0	0.030
84	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H, 3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	0.030
85	[Phthalato(2-)]dioxotrilead *	69011-06-9	0.01
86	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	0.030
87	1,2-diethoxyethane	629-14-1	0.030
88	1-bromopropane (n-propyl bromide)	106-94-5	0.030
89	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.030
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues)	---	0.030
91	4,4'-methylenedi-o-toluidine	838-88-0	0.030
92	4,4'-oxydianiline and its salts	101-80-4	0.030
93	4-aminoazobenzene	60-09-3	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
94	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.030
95	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)	---	0.030
96	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.030
97	Acetic acid, lead salt, basic *	51404-69-4	0.01
98	Biphenyl-4-ylamine	92-67-1	0.030
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.030
100	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	0.030
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	0.030
102	Dibutyltin dichloride (DBTC)	683-18-1	0.030
103	Diethyl sulphate	64-67-5	0.030
104	Diisopentyl phthalate	605-50-5	0.030
105	Dimethyl sulphate	77-78-1	0.030
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.030
107	Dioxobis(stearato)trilead *	12578-12-0	0.01
108	Fatty acids, C16-18, lead salts *	91031-62-8	0.01
109	Furan	110-00-9	0.030
110	Henicosafuoroundecanoic acid	2058-94-8	0.030
111	Heptacosafuorotetradecanoic acid	376-06-7	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
112	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	0.030
113	Lead bis(tetrafluoroborate) *	13814-96-5	0.01
114	Lead cyanamidate *	20837-86-9	0.01
115	Lead dinitrate *	10099-74-8	0.01
116	Lead monoxide (lead oxide) *	1317-36-8	0.01
117	Lead oxide sulfate *	12036-76-9	0.01
118	Orange lead (lead tetroxide) *	1314-41-6	0.01
119	Lead titanium trioxide *	12060-00-3	0.01
120	Lead titanium zirconium oxide *	12626-81-2	0.01
121	Methoxyacetic acid	625-45-6	0.030
122	Methyloxirane (Propylene oxide)	75-56-9	0.030
123	N,N-dimethylformamide	68-12-2	0.030
124	N-methylacetamide	79-16-3	0.030
125	N-pentyl-isopentylphthalate	776297-69-9	0.030
126	o-aminoazotoluene	97-56-3	0.030
127	o-toluidine	95-53-4	0.030
128	Pentacosafuorotridecanoic acid	72629-94-8	0.030
129	Pentalead tetraoxide sulphate *	12065-90-6	0.01
130	Pyrochlore, antimony lead yellow *	8012-00-8	0.01
131	Silicic acid, barium salt, lead-doped *	68784-75-8	0.01
132	Silicic acid, lead salt *	11120-22-2	0.01
133	Sulfurous acid, lead salt, dibasic *	62229-08-7	0.01

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No.	Substance name	CAS No.	Reporting Limit (%)
134	Tetraethyllead *	78-00-2	0.01
135	Tetralead trioxide sulphate *	12202-17-4	0.01
136	Tricosafuorododecanoic acid	307-55-1	0.005
137	Trilead bis(carbonate) dihydroxide *	1319-46-6	0.01
138	Trilead dioxide phosphonate *	12141-20-7	0.01
139	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)	---	0.030
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.030
141	Cadmium oxide *	1306-19-0	0.01
142	Cadmium※	7440-43-9	0.005
143	Dipentyl phthalate (DPP)	131-18-0	0.030
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.030
145	Cadmium sulphide *	1306-23-6	0.01
146	Dihexyl phthalate	84-75-3	0.030
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.030

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148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-b iphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-dis ulphonate (C.I. Direct Black 38)	1937-37-7	0.030
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.030
150	Lead di(acetate) *	301-04-2	0.01
151	Trixylyl phosphate	25155-23-1	0.030
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.030
153	Cadmium chloride *	10108-64-2	0.005
154	Sodium perborate, perboric acid, sodium salt *	---	0.01
155	Sodium peroxometaborate *	7632-04-4	0.01
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylpheno l (UV-328)	25973-55-1	0.030
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.030
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-s tannatetradecanoate (DOTE)	15571-58-1	0.030
159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-s tannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]th io]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetr adecanoate (reaction mass of DOTE and MOTE)	---	0.030
160	Cadmium fluoride *	7790-79-6	0.01
161	Cadmium sulphate *	10124-36-4, 31119-53-6	0.01

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162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters, 1,2-benzenedicarboxylic acid,mixed decyl and hexyl and octyl diesters (with $\geq 0.3\%$ of dihexyl phthalate)	68515-51-5, 68648-93-1	0.030
163	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]	---	0.030
164	1,3-propanesultone	1120-71-4	0.030
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)p henol (UV-327)	3864-99-1	0.030
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.030
167	Nitrobenzene	98-95-3	0.030
168	Perfluorononan-1-oic-acid , Ammonium salts of perfluorononan-1-oic-acid, Sodium salts of perfluorononan-1-oic-acid	375-95-1, 21049-39-8, 4149-60-4	0.030
169	Benzo[def]chrysene	50-32-8	0.030
170	4,4'-isopropylidenediphenol (bisphenol A)	80-5-7	0.030
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7, 335-76-2, 3830-45-3	0.030
172	4-heptylphenol, branched and linear (4-HPbl)	---	0.030
173	P-(1,1-dimethylpropyl)phenol	80-46-6	0.030
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	---	0.030

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175	Dodecachloropentacyclo[12.2.1.16,9.02,13.0 5,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) covering any of its individual anti- and syn-isomers or any combination thereof	---	0.030
176	Benz[a]anthracene	56-55-3, 1718-53-2	0.030
177	Cadmium nitrate *	10022-68-1, 10325-94-7	0.01
178	Cadmium carbonate *	513-78-0	0.01
179	Cadmium hydroxide *	21041-95-2	0.01
180	Chrysene	218-01-9, 1719-03-5	0.030
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	---	0.030

In accordance with Regulation (EC) No.1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:

- The substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;
- The substance is present in those articles above a concentration of 0.1 % weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

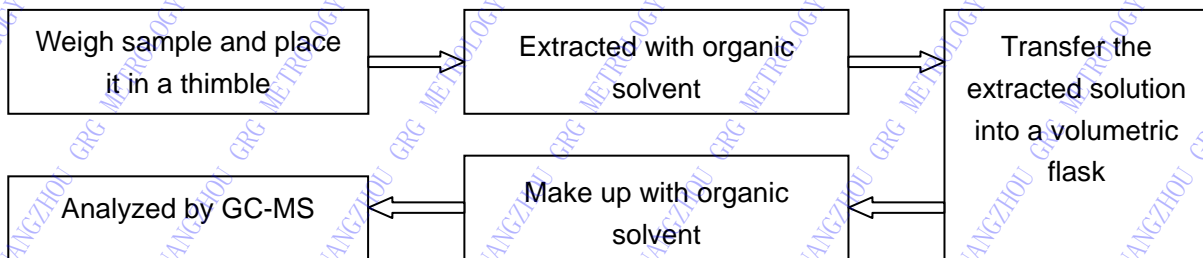
**GUANGZHOU GRG METROLOGY & TEST CO., LTD.**

Address: 163 Pingyun Road West of Huangpu Avenue Tianhe District Guangzhou City, 510656, P. R. China  
Tel: +86-020-66664900 FAX: +86-020-38698685 <http://www.grgtest.com>

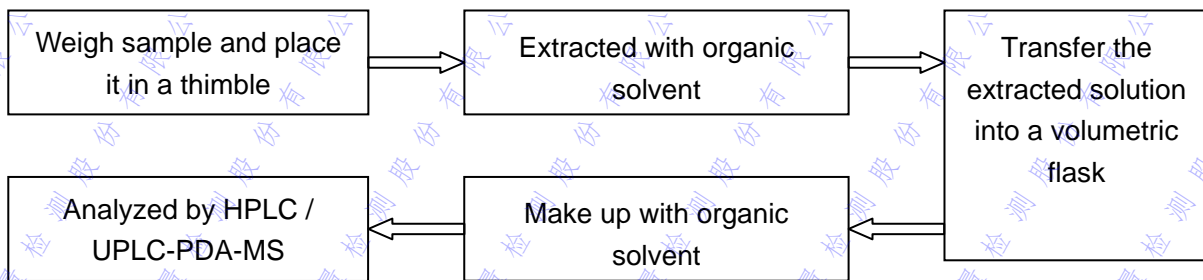
# TEST REPORT

CheckCode:992226  
Report No. : C201801058730-6E

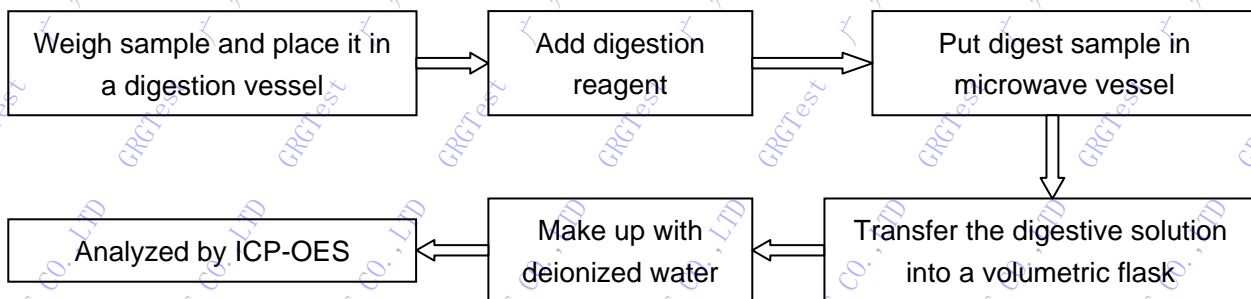
## Test Process (1):



## Test Process (2):



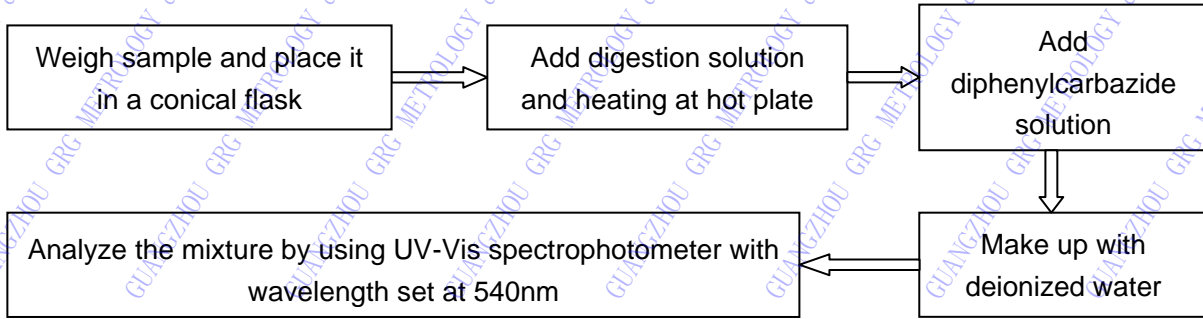
## Test Process (3):



# TEST REPORT

CheckCode:992226  
Report No. : C201801058730-6E

**Test Process (4):**



**Photo of Sample**



-----End of Report-----