

CHEMICAL ANALYSIS TEST REPORT

Company : TAI HONG CIRCUIT IND. Co., Ltd.
Address : No.81, KUANG FU RD., HSINCHU IND. PARK, FUKOU HSANG,
HSINCHU HSIEN, TAIWAN
Product Name : (Au)Gold
Date Received : APR 29, 2021
Date Tested : MAY 06, 2021

TESTING LABORATORY IS ACCREDITED BY:

IECQ ISO/IEC 17025 certificate of independent test laboratory approval
Certificate No. : IECQ-L DEKRA 16.0002

WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Xiaohu Chen	<i>Xiaohu Chen</i>	May 07, 2021
Manager	Wenston Lin	<i>Wenston Lin</i>	May 07, 2021

NOTE :

1. This report will be invalid if reproduced in part or altered in any way.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.



TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1 DESCRIPTION OF SAMPLE.....	2
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2. CHEMICAL ANALYSIS TEST

2.1 TEST CONDITION AND RESULT.....	3
2.2 PHOTO OF SAMPLE	6
2.3 MEASUREMENT FLOW CHART	7



1. GENERAL INFORMATION

1.1 DESCRIPTION OF SAMPLE

Product Name : (Au)Gold

2. CHEMICAL ANALYSIS TEST

2.1 TEST CONDITIONS AND RESULTS

*Description of test part : GOLDEN FOIL


Test Item(s)	Method	Instrument	Unit	MDL	Result
Lead (Pb)	Refer to IEC 62321-5:2013	ICP-OES	mg/kg	2	N.D.
Cadmium (Cd)				2	N.D.
Mercury (Hg)	Refer to 62321-4:2013+ AMD1:2017			2	N.D.
Hexavalent chromium (Cr6+)	Refer to IEC 62321-7-1:2015	UV-VIS	µg/cm ²	0.10	Negative
Monobromobiphenyl	Refer to IEC 62321-6:2015	GC-MS	mg/kg	5	N.D.
Dibromobiphenyl				5	N.D.
Tribromobiphenyl				5	N.D.
Tetrabromobiphenyl				5	N.D.
Pentabromobiphenyl				5	N.D.
Hexabromobiphenyl				5	N.D.
Heptabromobiphenyl				5	N.D.
Octabromobiphenyl				5	N.D.
Nonabromobiphenyl				5	N.D.
Decabromobiphenyl				5	N.D.
The above-mentioned total of (PBBs)	-	-	-	-	N.D.
Monobromodiphenyl ether	Refer to IEC 62321-6:2015	GC-MS	mg/kg	5	N.D.
Dibromodiphenyl ether				5	N.D.
Tribromodiphenyl ether				5	N.D.
Tetrabromodiphenyl ether				5	N.D.
Pentabromodiphenyl ether				5	N.D.
Hexabromodiphenyl ether				5	N.D.
Heptabromodiphenyl ether				5	N.D.
Octabromodiphenyl ether				5	N.D.
Nonabromodiphenyl ether				5	N.D.
Decabromodiphenyl ether				5	N.D.
The above-mentioned total of (PBDEs)	-	-	-	-	N.D.

*Description of test part : GOLDEN FOIL					
Test Item(s)	Method	Instrument	Unit	MDL	Result
Antimony (Sb)	Refer to EPA 3052: 1996	ICP-OES	mg/kg	5	N.D.
Beryllium (Be)				5	N.D.
Arsenic (As)				5	N.D.
Fluorine (F)	Refer to EN 14582: 2016	IC		30	N.D.
Chlorine (Cl)				30	N.D.
Bromine (Br)				30	N.D.
Iodine (I)				30	N.D.
Perfluorooctanoic Acid (PFOA)	Refer to US EPA 3550C:2007	LC/MS		10	N.D.
Perfluorooctane sulphonate (PFOS)				10	N.D.
HBCDD	Refer to IEC 62321:2008	GC-MS		mg/kg	10
DEHP	Refer to IEC 62321-8:2017	GC-MS	mg/kg	50	N.D.
DBP				50	N.D.
BBP				50	N.D.
DIBP				50	N.D.

Note :

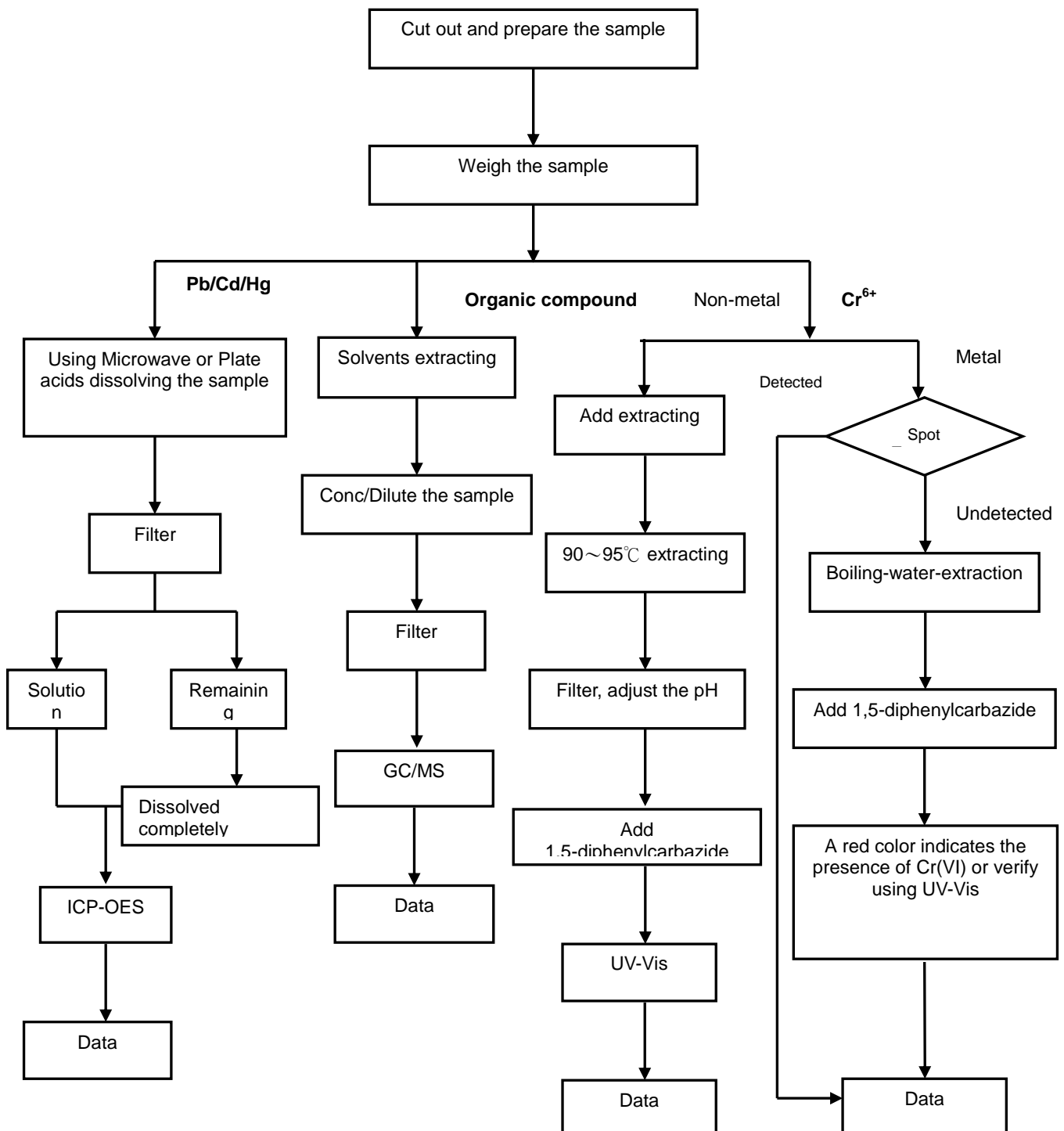
1. MDL = Method Detection Limit.
2. mg/kg = ppm.
3. N.D. = Not Detected. (The result is below the MDL.)
4. Negative= Undetectable.
5. ICP-OES = Inductively Coupled Plasma-Optical Emission Spectrometer.
6. UV-VIS = Ultraviolet-Visible Spectrophotometer.
7. GC-MS = Gas Chromatograph-Mass Spectrometer.
8. "-" Show that there is not specification value.

2.2 PHOTO OF SAMPLE

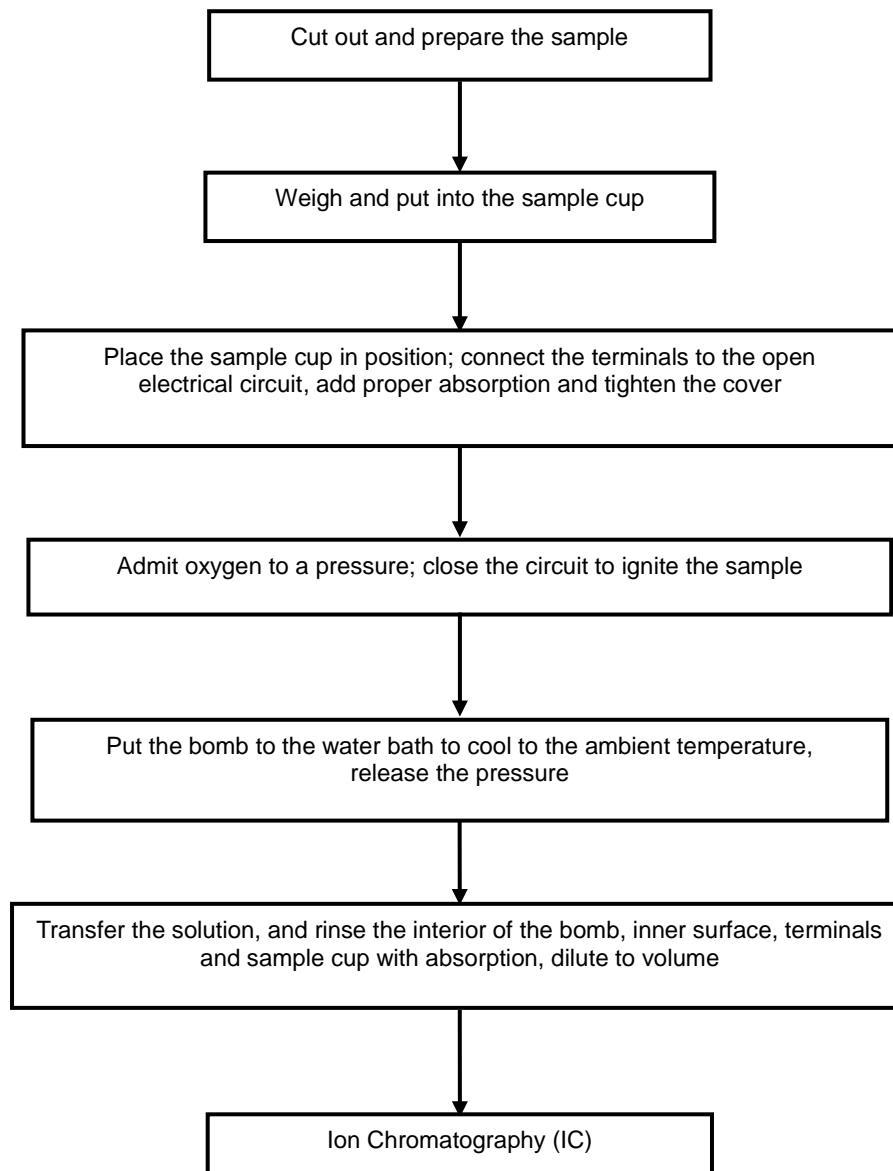
Sample NO.	Description of test part	Photo
-	GOLDEN FOIL	

2.3 MEASUREMENT FLOW CHART

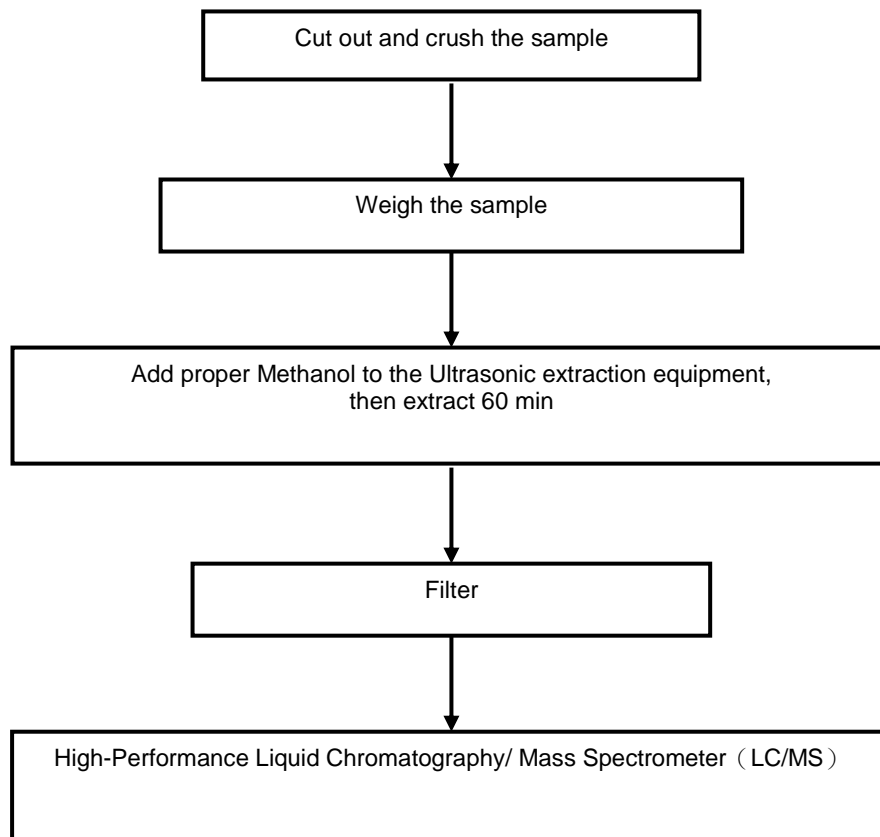
Measurement Flowchart of Lead (Pb)/ Cadmium (Cd)/ Mercury (Hg)/ Hexavalent chromium (Cr⁶⁺)/ PBBs/PBDEs



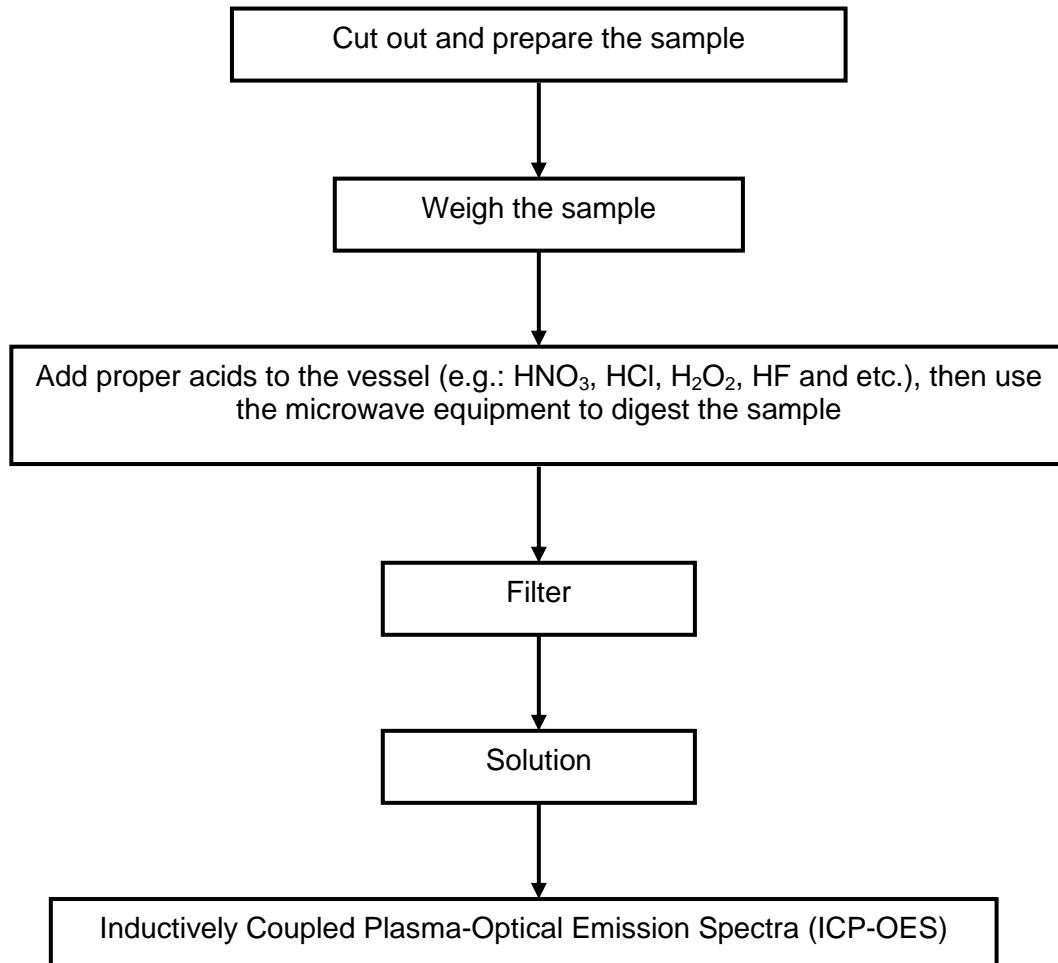
Measurement Flowchart of Halogen



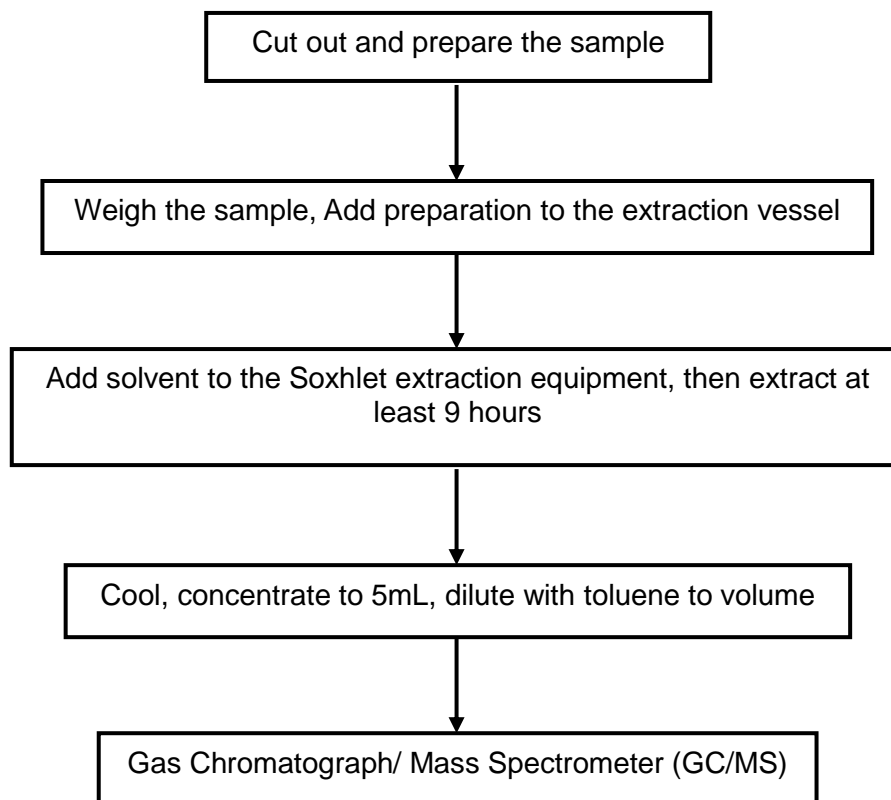
Measurement Flowchart of Perfluorooctane sulphonate(PFOS)/Perfluorooctanoic Acid (PFOA)



Measurement Flowchart of Antimony(Sb)/ Beryllium(Be)/ Arsenic(As)



Measurement Flowchart of Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (α -HBCDD, β -HBCDD, γ -HBCDD)/ Bis (2-ethylhexyl) ortho-phthalate(DEHP)/ Benzyl-n-butyl ortho-phthalate(BBP)/ Di-n-butyl ortho-phthalate (DBP)/ Di-iso-butyl ortho-phthalate(DIBP)



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