

# Test Report

Report No.: AGC03778180401-001S1

Date: May 14, 2018

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Applicant:

Address:

**Report on the submitted samples said to be:**

Sample Name : Sunglasses, classic model. With silver parts on the front at the left and right side of the glasses.

Model : MO 7455

Item No. : 9672

Country of origin : CHINA

Country of destination : EUROPE

Sample Receiving Date : Apr.26, 2018

Testing Period : Apr.26, 2018 to May 11, 2018

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

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

**Test Requested:**

ISO 12312-1:2013+A1:2015, excluding:  
- Clause 12 Information and Labeling

**Conclusion:**

Pass

Reported by: Chanel Yao

Reviewed by: Huangguohua

Approved by: Jay Liu

Yaoxianglan, Chanel Yao

Huangguohua

Liujinliang, Jay.Liu

Reporter

Vice Laboratory Manager

Laboratory Supervisor



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## Tests Conducted Summary

### 1. Requirements for Sunglasses

**Test standard:**

- **ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear — Part 1: Sunglasses for general use**
- **ISO 12311:2013 Personal protective equipment — Test methods for Sunglasses and related eyewear**

**Note: The applicant's attention was drawn that the manufacturer should not use the frame materials which are known to cause irritation, allergic or toxic reaction during wear in a normal state of health against significant proportion of users.**

CLAUSES	REQUIREMENTS		RESULT
4	Construction and materials		
4.1	Construction		P
4.2	Filter material and surface quality		P
4.3	Physiological compatibility (Nickel Release)		NA
5	Transmittance		
5.2	Transmittance and filter categories	Filter categories	Cat.3
		UV requirements	P
5.3	General transmittance requirements		
5.3.1	Uniformity of luminous transmittance		P
5.3.2	Requirements for road use and driving	5.3.2.2 Spectral transmittance	P
		5.3.2.3 Detection of signal lights	P
		5.3.2.4 Driving in twilight or at night	NA
5.3.4	Additional transmittance requirements for specific filter types	5.3.4.1 Photochromic filters	NA
		5.3.4.2 Polarizing filters	NA
		5.3.4.3 Gradient filters	NA
6	Refractive power		
6.1	Spherical and astigmatic power		P
6.2	Local variations in refractive power		P
6.3	Prism imbalance (relative prism error)		P

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**Tests Conducted Summary**

CLAUSES	REQUIREMENTS	RESULT
7	Robustness	
7.1	Minimum robustness of filters	P
7.2	Frame deformation and retention of filters	P
8	Resistance to solar radiation	P
9	Resistance to ignition	P
11	Protective requirements	
11.1	Coverage area	P
12	Information and labeling	
12.1	Information to be supplied with each pair of sunglasses	NR
12.2	Additional information	NR

Remark: P=Pass; F=Fail; NA=Not Applicable; NR=Not Require; X=Checked; Cat.=Category;

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**Test Results**
**Construction — Clause 4.1 and Filter material and surface quality — Clause 4.2**

Sample No.	Defects				Comment	Result(s)
	Construction		Filter Material and Surface Quality			
	Observed	Absent	Observed	Absent		
01		X		X	--	P

**Requirements:**

- Construction shall be smooth and without sharp projections;
- Filter material and surface quality: Except in a marginal area 5 mm wide, sunglass filters shall have no material or machining defects within an area of 30mm diameter around the reference point that may impair vision, e.g. bubbles, scratches, inclusions, dull spots, pitting, mould marks, notches, reinforced points, specks, beads, water specks, pocking, gas inclusions, splintering, cracks, polishing defects or undulations.

**Transmittance and filter categories — Clause 5.2**

Sample No.: 01				
Test Items	Requirements	Left	Right	Result(s)
Luminous transmittance $\tau_v$ (380~780)nm (%)	For Cat. 0: 80.0~100	9.3	9.3	Cat.3
	For Cat. 1: 43.0~80.0			
	For Cat. 2: 18.0~43.0			
	For Cat. 3: 8.0~18.0			
	For Cat. 4: 3.0~8.0			
Filter categories	Claimed Cat.: (Not Provided)			
$\tau_{SUVB}$ (280~315)nm (%)	For Cat.0, 1: $\leq 0.05\tau_v$ For Cat.2: 1.0% absolute or $0.05\tau_v$ whichever is greater; For Cat.3, 4: 1.0% absolute	0.0	0.0	P
$\tau_{SUVA}$ (315~380)nm (%)	For Cat.0, 1: $\leq \tau_v$ ; For Cat.2, 3: $\leq 0.5\tau_v$ For Cat.4: 1.0% absolute or $0.25\tau_v$ whichever is greater	0.0	0.0	P
$\tau_{sb}$ (380~500)nm (%)	---	7.8	8.1	Only Ref.

Measurement Uncertainty (if necessary):

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**Test Results**
**Uniformity of luminous transmittance — Clause 5.3.1**

Sample No.: 01				
Test Items	Requirements	Left	Right	Result(s)
Difference within filter (%) (relative to higher value)	The relative difference in the luminous transmittance value shall not be greater than 10%, except for Cat. 4 where it shall not be greater than 20%	4.1	5.0	P
Difference with mounted filters (relative to higher value)	The relative difference between the luminous transmittance value of the visual center for right and left eye shall not exceed 15%	3.1		P

Measurement Uncertainty (if necessary):

**Requirements for road use and driving — Clause 5.3.2**

Sample No.: 01				
Test Items	Requirements	Left	Right	Result(s)
Categories	Filters suitable for road use and driving shall be categories 0, 1, 2 or 3	Cat.3	Cat.3	P
Spectral transmittance (475~650)nm (%)	$\geq 0.2\tau_v$	7.6 ( $0.2\tau_v=1.9$ )	7.8 ( $0.2\tau_v=1.9$ )	P
Red Signal	$\geq 0.80$	1.152	1.150	P
Yellow Signal	$\geq 0.60$	0.991	0.991	
Green Signal	$\geq 0.60$	1.004	1.004	
Blue Signal	$\geq 0.60$	1.147	1.147	
Driving in twilight or at night(%)	$\tau_v \geq 75\%$	9.3	9.6	NA

Measurement Uncertainty (if necessary):

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## Test Results

### Test Results

#### Refractive power — Clause 6

Sample No.: 01						
Test Items		Requirements	Left	Right	Result(s)	
Spherical Power (D)		$\pm 0.12D$	+0.06	+0.05	P	
		The difference between the spherical powers shall not exceed 0.18 D;	0.01		P	
Astigmatic Power (D)		$\leq 0.12D$	0.00	0.00	P	
Local variations in refractive power (D)	Spherical Power	$\pm 0.12D$	1*	+0.03	0.00	P
			2*	-0.01	+0.01	
			3*	+0.04	+0.02	
			4*	+0.01	+0.01	
	Astigmatic Power	$\leq 0.12D$	1*	0.01	0.02	P
			2*	0.02	0.02	
			3*	0.05	0.02	
			4*	0.03	0.03	
Prism imbalance (cm/m)		Horizontal	Base Out: $< 1.00$	0.05	P	
			Base In: $< 0.25$	--		
		Vertical	$< 0.25$	0.04		

Measurement Uncertainty (if necessary):

Note: \* See figure:

**Key:** A=Reference points  
X=Measure point

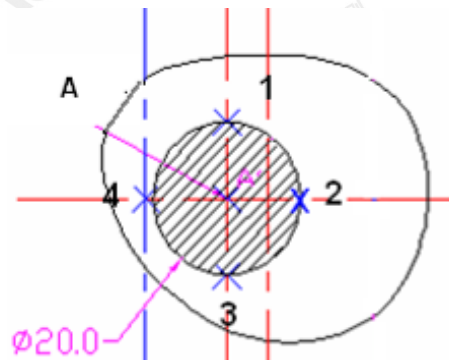


Figure: Measuring location of refractive power

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**Test Results**
**Minimum robustness of filters — Clause 7.1**

Sample No.	Defects		Comment	Result(s)
	Observed	Absent		
01		X	--	P

Requirements:

None of the following defects shall appear on filters :

1. Filter fracture;
2. Filter deformation;

**Frame deformation and retention of filters — Clause 7.2**

Sample No.	Boxed Center Distance C (mm)	Residual Deformation X (mm)	Deformation Percentage $\Phi$ (%)	Structure		Lens Retention		Result(s)
				Pass	Fail	Pass	Fail	
01	73.64	0.15	0.2	X		X		P

Requirements:

1. Be permanently deformed from its original configuration by not more than 2% of the distance C,. Deformation percentage $\Phi$ ; Calculation:  $\Phi (\%) = X/C*100$
2. No fracture or crack at any point;
3. No filter shall be displaced from the frame.

Measurement Uncertainty (if necessary):

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**Resistance to Radiation — Clause 8**

Sample No.: 01		Test Items	Requirements	Left	Right	Result(s)
The relative change of luminous transmittance		For Cat. 0: $< \pm 3\%$	Before exposure	9.3	9.6	P
		For Cat. 1: $< \pm 5\%$	After exposure	9.4	9.6	
		For Cat. 2: $< \pm 8\%$	Difference	1.1	0.0	
Requirements for the ultraviolet spectral range for $\tau_v$ (%)	$\tau_{SUVB}$ (280~315) nm (%)	For Cat. 0,1: $\leq 0.05\tau_v$ For Cat. 2: 1.0% absolute or $0.05\tau_v$ whichever is greater; For Cat. 3, 4: 1.0% absolute		0.0	0.0	P
	$\tau_{SUVA}$ (315~380) nm (%)	For Cat. 0,1: $\cong \tau_v$ ; For Cat. 2, 3: $\cong 0.5\tau_v$ For Cat. 4: 1.0% absolute or $0.25\tau_v$ whichever is greater;		0.0	0.0	P

Measurement Uncertainty (if necessary):

**Test Results**
**Ignition — Clause 9**

Sample No.	Continued Combustion		Comment	Result(s)
	Yes	No		
01		X	--	P

Requirements:

The filters and frame shall be no continued combustion after withdrawal of the test rod.

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## Coverage area — Clause 11.1

Sample No.	Type (Adults/Children)	Test Position	Coverage Area		Comment	Result(s)
			Pass	Fail		
01	Adults	Left	X		--	P
		Right	X		--	P

### Requirements:

1. Adults' sunglasses shall cover two ellipses of horizontal diameter of 40mm and a vertical diameter of 28mm, the centres of which are separated 64mm and symmetrically placed on either side of the centre of the nose bridge of the frame.
2. Children's sunglasses shall cover two ellipses of horizontal diameter of 34mm and a vertical diameter of 24mm, the centres of which are separated 54mm and symmetrically placed on either side of the centre of the nose bridge of the frame.

This report is to supersede the report with No.: AGC03778180401-001 dated on May 11, 2018.

## The photo of the sample



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**No.18 C**

# Test Report

Report No.: AGC03778180401-002S1

Date: May 14, 2018

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Applicant:

Address:

**Report on the submitted samples said to be:**

Sample Name : Sunglasses, classic model. With silver parts on the front at the left and right side of the glasses.

Model : MO 7455

Item No. : 9672

Country of origin : CHINA

Country of destination : EUROPE

Sample Receiving Date : Apr.26, 2018

Testing Period : Apr.26, 2018 to May 11, 2018

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

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

**Test Requested:**

UV400 (In-house test, and test method refer to attached pages for details)

**Conclusion:**

Pass

Reported by: Chanel Yao

Yaoxianglan, Chanel Yao

Reporter

Reviewed by: Huangguohua

Huangguohua

Vice Laboratory Manager

Approved by: Jay Liu

Liujinliang, Jay Liu

Laboratory Supervisor



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Date: May 14, 2018

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## Tests Conducted Summary

**UV400**(In-house test, non-accredited test item)

As requested by the applicant, refer to test procedure of "Resistance to Radiation" in this report, assessment was made against a level of 100% UV protection, in which the spectral transmittance was examined within a range of 280nm-400nm before and after exposure.

Sample Number	Wavelength (nm)	Maximum Spectral transmittance (%)		Result
		Left	Right	
01	280-400	0.0	0.0	P

Requirements:

Maximum spectral transmittance shall not exceed 0.5%.

Measurement Uncertainty (if necessary):

**This report is to supersede the report with No.: AGC03778180401-002 dated on May 11, 2018.**

## The photo of the sample



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# Test Report

**Report No.:** AGC03778190202-001

**Date:** Feb.15, 2019

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**Applicant:**

**Address:**

**Report on the submitted samples said to be:**

**Sample Name** : Classic fashion sunglasses  
**Model No.** : MO7455  
**Item No** : 9672  
**Country of Origin** : CHINA  
**Country of Destination** : EUROPE  
**Sample Receiving Date** : Feb.12, 2019  
**Testing Period** : Feb.12, 2019 to Feb.15, 2019  
**Test site** :

**Test Requested:** : Please refer to next page(s).

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

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

Approved by:



Liulinwen, Lewis

Technical Director



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**Test Requested:**

1. As specified by client, to determine the Cadmium(Cd)content in the Submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.
2. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.
3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.

**Conclusion**

Pass

Pass

Pass

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**Test Result(s):**

**1. Test Result(s) of Cd:**

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Cadmium (Cd)	Refer to IEC 62321:5-2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-6	1-7	1-8	1-9	1-12	
Cadmium (Cd)	Refer to IEC 62321:5-2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-10	1-11	
Cadmium (Cd)	Refer to IEC 62321:5-2013 ICP-OES	5	N.D.	N.D.	100
Conclusion		/	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  3. As specified by client, only test the designated sample

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**2. Test result of Polycyclic Aromatic Hydrocarbons (PAHs)**

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Benzo[a]anthracene (BaA)	Refer to AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	N.D.	N.D.	/
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)					Limit
			1-6	1-7	1-8	1-9	1-12	
Benzo[a]anthracene (BaA)	Refer to AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	N.D.	N.D.	/
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  3. As specified by client, only test the designated sample.

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### 3. Test result of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	—
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Sum of DBP+BBP+DEHP+DIBP</b>		—	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Sum of DNOP+DINP+DIDP</b>		—	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>			/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-6	1-7	1-8	1-9	1-12	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	—
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Sum of DBP+BBP+DEHP+DIBP</b>		—	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Sum of DNOP+DINP+DIDP</b>		—	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>			/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

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- Note:**
1. 0.1%,w/w =1000mg/kg
  2. MDL=method detection limit
  3. N.D.=not detected (less than method detection limit)
  4. “—” =Not regulated
  5. As specified by client, only test the designated sample

## Sample Description

1-1	Black plastic frame
1-2	White plastic frame
1-3	Blue plastic frame
1-4	Yellow plastic frame
1-5	Orange plastic frame
1-6	Red plastic frame
1-7	Pink plastic frame
1-8	Lime plastic frame
1-9	Purple plastic frame
1-10	Silver coating
1-11	Metal pin
1-12	Black plastic len

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# Test Report

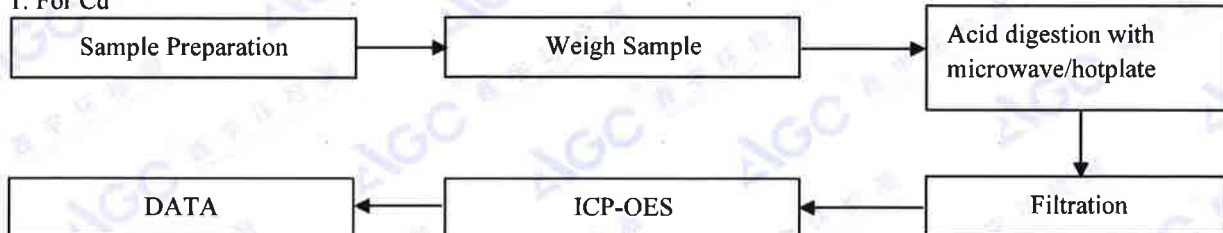
Report No.: AGC03778190202-001

Date: Feb.15, 2019

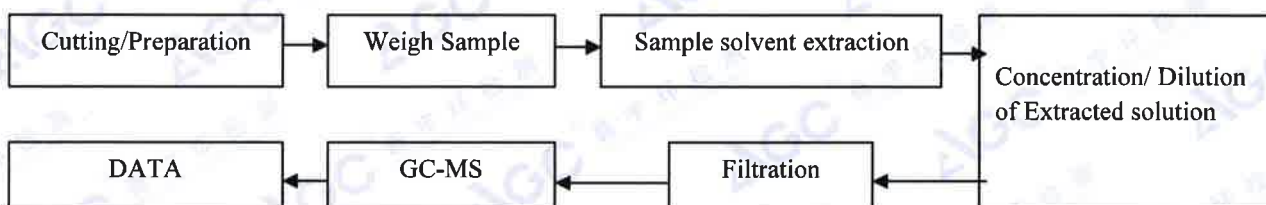
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## Test Flow Chart

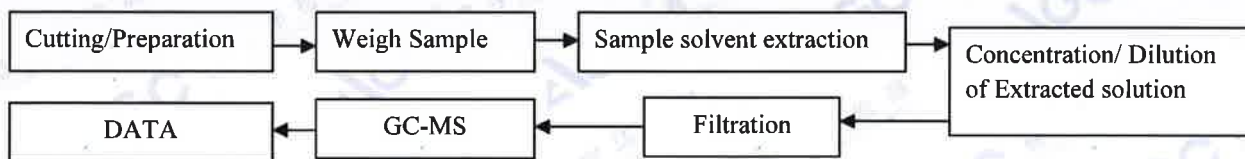
### 1. For Cd



### 2. For PAHs



### 3. For phthalates



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## The photo of the sample



**AGC03778190202-001**

AGC authenticate the photo on original report only

\*\*\* End of Report\*\*\*

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