RoHS Test Report

Report No.	:	AGC05443240501-001

SAMPLE NAME	:	Recycled ALU 8000mAh powerbank
MODEL NAME	:	MO2340
APPLICANT	:	MID OCEAN BRANDS B.V
STANDARD(S)	:	Please refer to the following page(s).
DATE OF ISSUE	:	May 11, 2024

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.

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Applicant	:	MID OCEAN BRANDS B.V
Address	:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site	:	6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

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

Sample Name	:	Recycled ALU 8000mAh powerbank
Model	:	MO2340
Vendor code	:	114538
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Sample Received Date	:	May 06, 2024
Testing Period	:	May 06, 2024 to May 10, 2024
Test Requested	:	Selected test(s) as requested by client.

Test Requested:	**Conclusion**
2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 - Pb, Cd, Hg, Cr^{6+}, PBBs, PBDEs, DBP, BBP, DEHP, DIBP	Pass

Approved by: Leon

Suhongliang, Leon

Technical Director

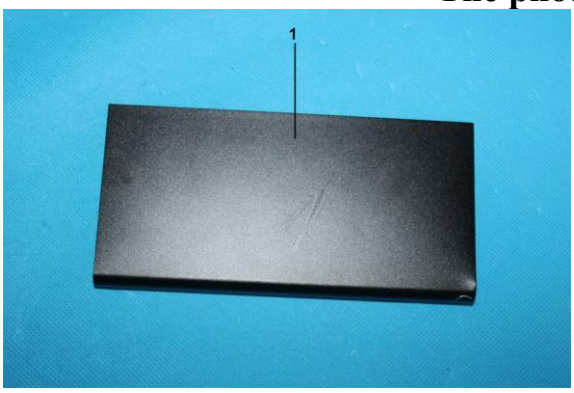
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Report Revise Record

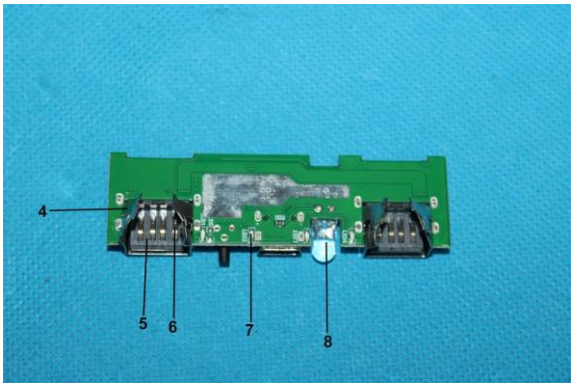
Report Version	Issued Date	Valid Version	Notes
/	May 11, 2024	Valid	Initial release

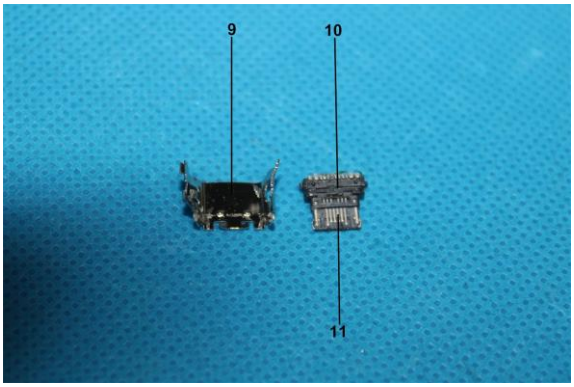
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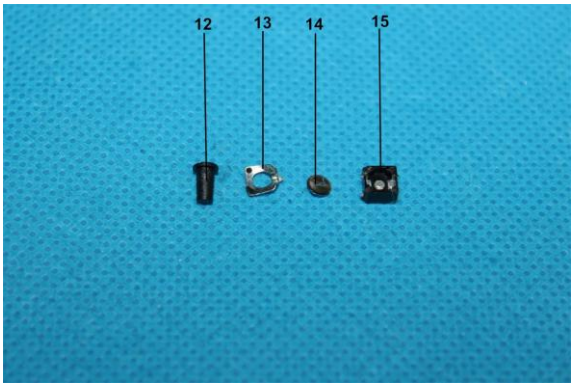
The photo of the sample

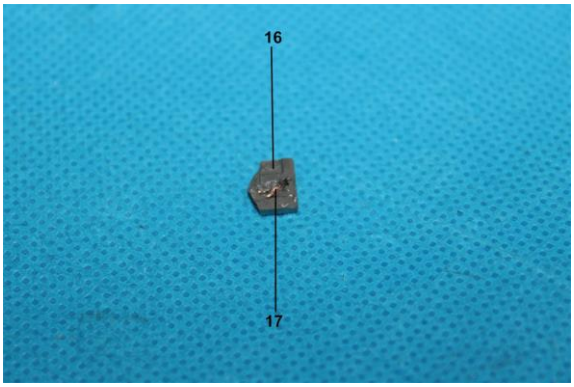


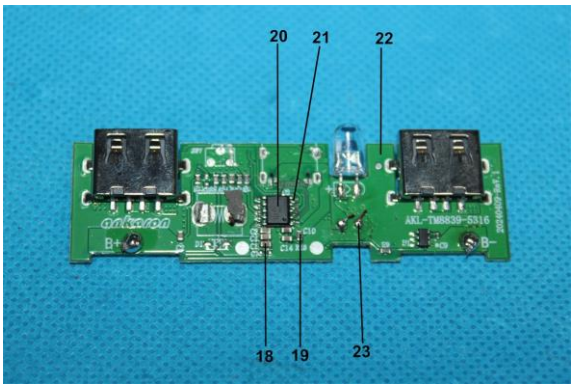


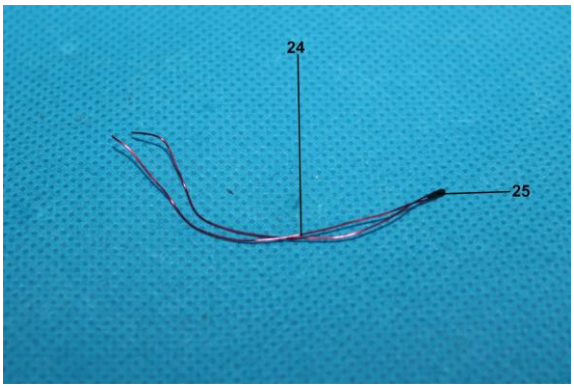




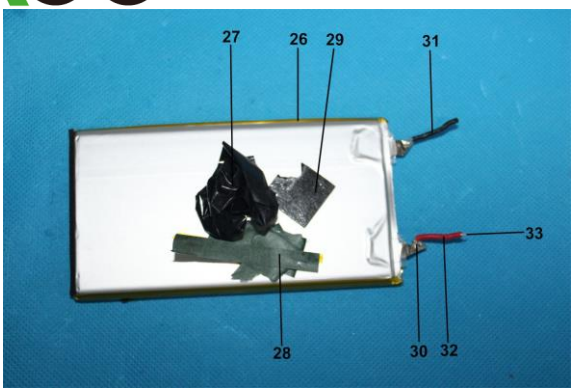


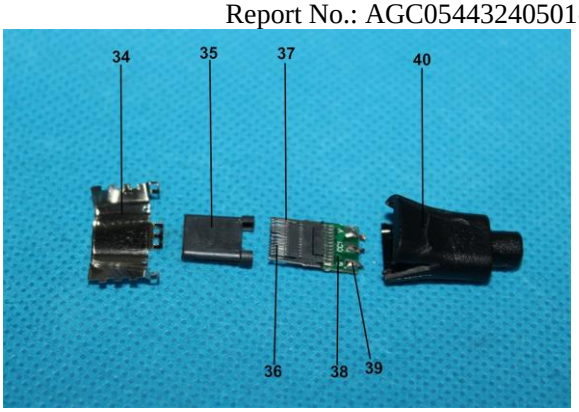


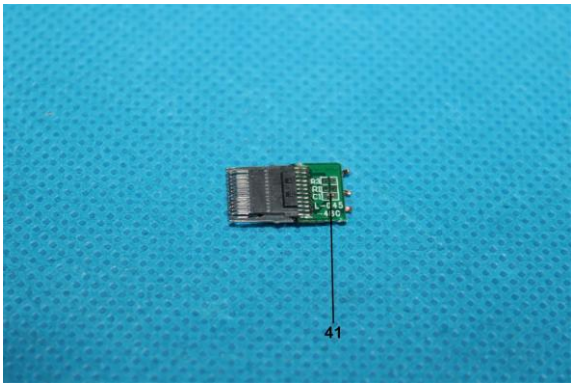


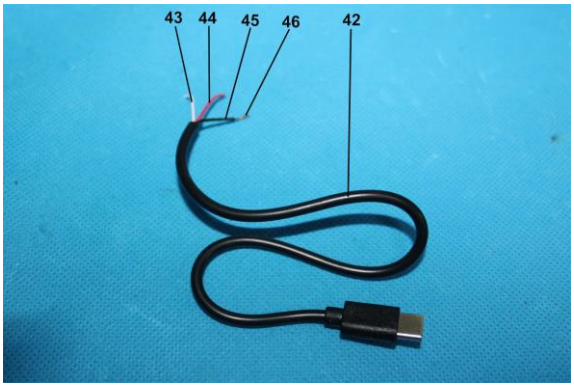


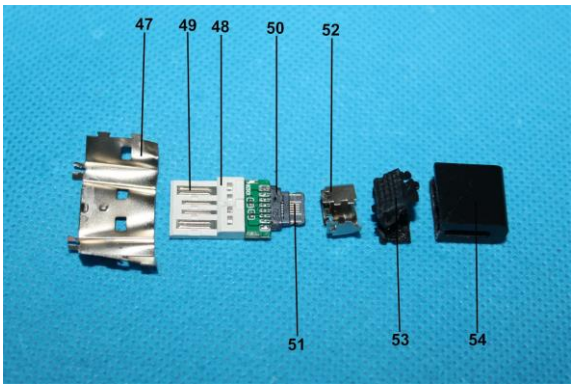
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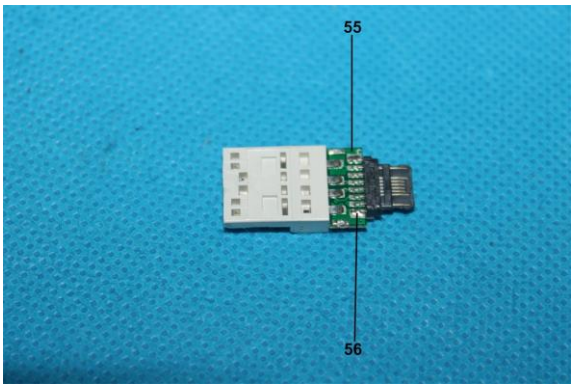


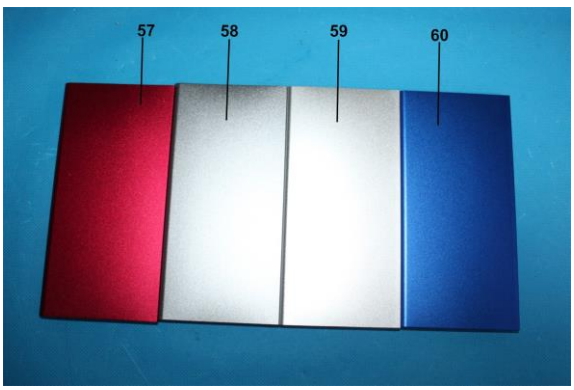








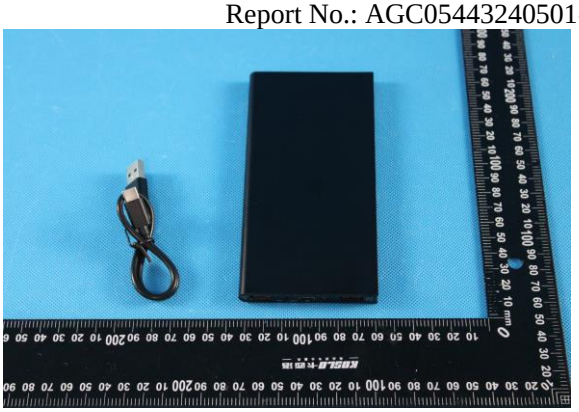


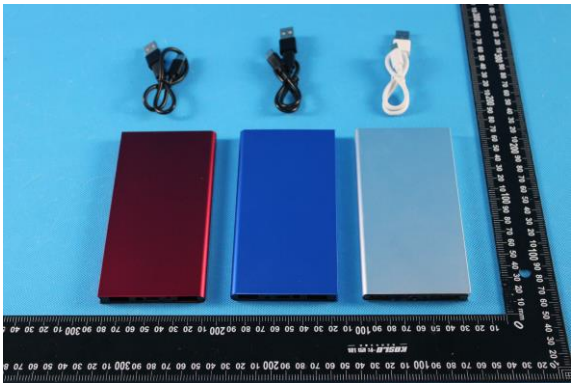




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The photo of AGC05443240501-001 is for use only with the original report.

Test Point Description

Test point	Test module	Test parts	Test point description
1. Power Bank Model： MO2340 (Big ）			
1	---	Outer shell	Black metallic shell
2	---		Black plastic shell
3	---		Black plastic sheet
4	Circuit board	USB device	USB metal device
5			Grey plastic joint
6			Metal pin
7		---	Chip LED
8		---	Transparent LED
9		Type-C connector	Type-C metal connector
10			Grey plastic joint
11			Metal pin
12		Key	Black plastic button
13			Metallic shell
14			Metallic shrapnel
15			Black plastic base
16		Inductance	Grey magnetic frame
17			Enameled wire

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18		---	Chip capacitor
19		---	Chip resistor
20		---	IC body
21		---	Metallic pin with solder
22		---	PCB
23		---	Solder
24	---	Thermistor	Black thermistor
25	---		Enameled wire
26	---	Battery	Tan tape
27	---		Black tape
28	---		Barley paper
29	---		Black foam with glue
30	---		Solder
31	---		Black wire jacket
32	---		Red wire jacket
33	---		Conductor
Type-C line			
34	---	Type-C plug	Type-C metal plug
35	---		Grey plastic plug
36	---		Metal pin
37	---		Metallic pogopin
38	---		PCB
39	---		Solder
40	---		Black handle
41	---		Chip capacitor
42	---	Wire rod	Black outer wire jacket
43	---		White wire jacket
44	---		Red wire jacket
45	---		Black wire jacket
46	---		Conductor
USB Adaptor			
47	---	---	USB metal plug
48	---	---	White plastic plug
49	---	---	Metal pin
50	---	---	Grey plastic plug
51	---	---	Metal pin
52	---	---	Type-C metal plug
53	---	---	Black inner glue
54	---	---	Black plastic handle
55	---	---	PCB
56	---	---	Solder
Difference			
57	---	---	Red metallic shell
58	---	---	Grey metallic shell

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59	---	---	Silver metallic shell
60	---	---	Blue metallic shell
type-C White Difference			
61	---	Type-C plug	White handle
62	---	Wire rod	White outer wire jacket
63	---	---	White plastic handle

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.

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Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863

- Pb, Cd, Hg, Cr^{6+}, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Test Item	Test Method/ Instrument	MDL	Maximum Limit
Lead (Pb)	IEC 62321-3-1:2013/ XRF	/	1000mg/kg
Cadmium (Cd)		/	100mg/kg
Mercury (Hg)		/	1000mg/kg
Total Chromium		/	/
Total Bromine		/	/
Chemistry Method			
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	2mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	2mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	2mg/kg	1000mg/kg
Non-metal: Hexavalent Chromium (Cr^{6+})	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
Metal: Hexavalent Chromium (Cr^{6+})	IEC 62321-7-1:2015/ UV-Vis	0.1μg/cm²	/
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)		50mg/kg	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
1	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
2	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
3	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
4	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
5	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
6	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
7	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
8	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
9	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
10	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
11	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
12	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
13	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
14	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
15	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
16	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
17	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
18	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
19	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
20	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
21	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
22	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
23	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
24	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
25	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
26	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
27	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
28	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
29	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
30	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
31	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
32	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
33	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
34	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
35	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
36	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
37	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
38	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
39	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
40	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
41	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
42	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
43	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
44	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
45	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	111	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
46	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
47	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
48	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
49	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
50	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
51	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
52	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
53	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
54	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
55	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
56	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
57	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
58	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
59	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
60	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

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Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
61	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
62	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
63	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X

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Br	mg/kg	BL≤300-3σ<X	N/A	BL≤250-3σ<X

Remark:

(1) BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.

(2) Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value.

(3) The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

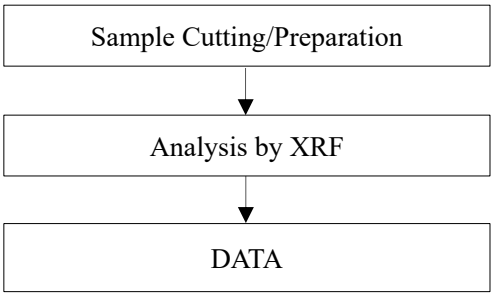
(4) Boiling-water-extraction:(X represents the results of the tested sample)

Number	Colorimetric result (Cr(VI) concentration)	Judgement
1	X＜0.1μg/cm²	Negative
2	0.1μg/cm²≤X≤0.13μg/cm²	Uncertainty
3	X＞0.13μg/cm²	Positive

Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.
Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).
Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

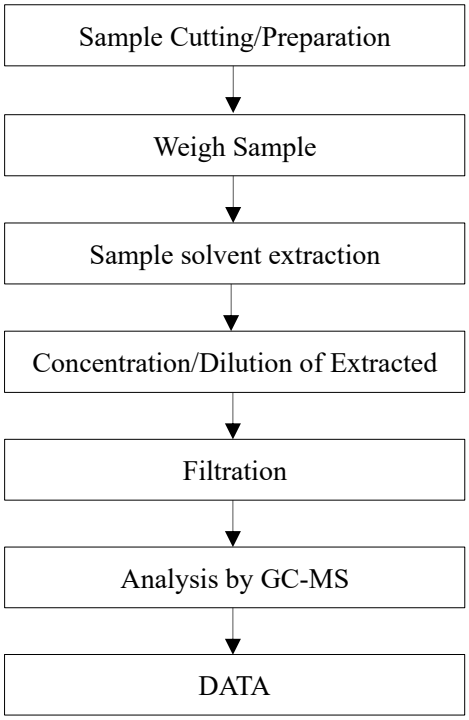
(5) This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.
The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

Test Flow Chart of XRF



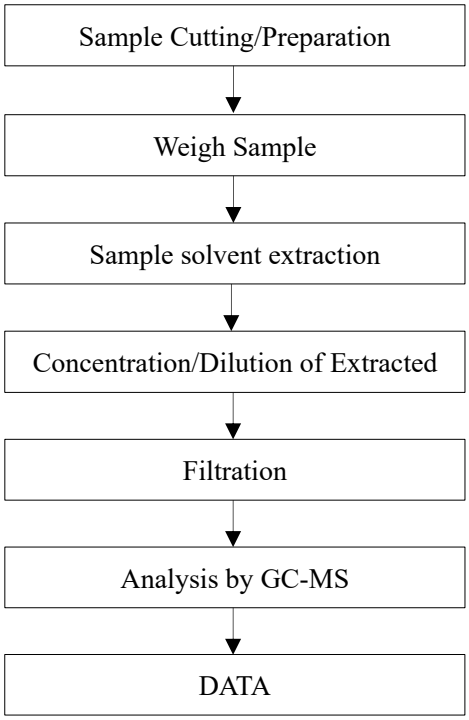
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Test Flow Chart of Phthalates



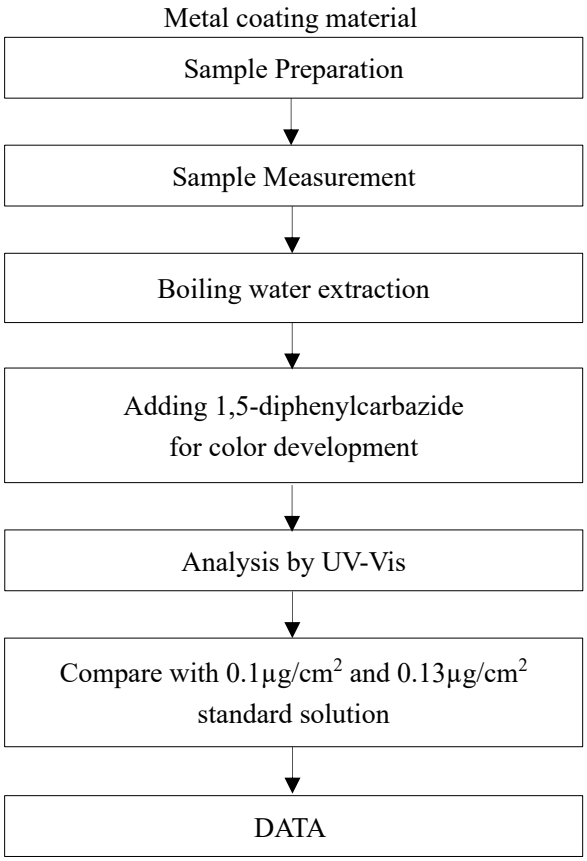
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Test Flow Chart of PBBs and PBDEs



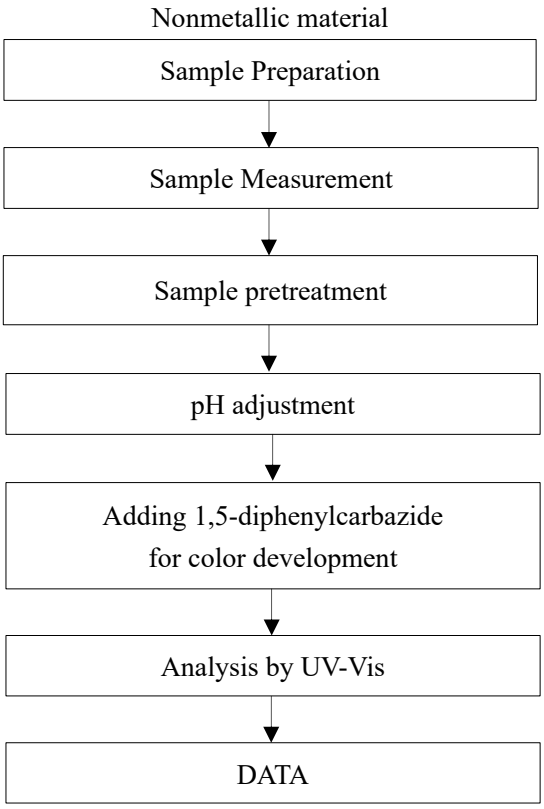
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Test Flow Chart of Hexavalent Chromium (Cr^{6+})



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Test Flow Chart of Hexavalent Chromium (Cr^{6+})



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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

*** End of Report ***

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.