

bill of material (RoHS)

Model:

Item	Description		Specifications	Qty	supplier	test report No.	date of issue	laboratory	test result (unit: PPM)					
									Cd	Pb	Hg	Cr/VI	PBB	PBDE
1	SMD Capacitor		ROHS 0603 33PF/k	2	Yuan mao	RTO7R-6593-001 (attached P1)	2007-11-16	Intertek	ND	ND	ND	ND	ND	ND
			ROHS 0603 102K	10		RTO7R-6593-001 (attached P1)	2007-11-16	Intertek	ND	ND	ND	ND	ND	ND
			ROHS 0603 103K	4		RTO7R-6593-001(attached P1)	2007-11-16	Intertek	ND	ND	ND	ND	ND	ND
			ROHS 0603 104K	1		RTO7R-6593-001 (attached P1)	2007-11-16	Intertek	ND	ND	ND	ND	ND	ND
			ROHS 0603 105Z	6		RTO7R-6593-001 (attached P1)	2007-11-16	Intertek	ND	ND	ND	ND	ND	ND
			ROHS 0603 100pF±10%	2		RTO7R-6593-001 (attached P1)	2007-11-16	Intertek	ND	ND	ND	ND	ND	ND
2	Resistor		ROHS 0603 6.8 Ω ±0.5%	8	Shi meng	CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 22 Ω ±0.5%	4		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 100 Ω ±0.5%	3		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 1.5k Ω ±0.5%	1		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 4.7k Ω ±0.5%	2		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 10 k Ω ±0.5%	2		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 1 M Ω ±0.5%	5		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 3.9M ±0.5%	2		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 AVR-M1608C120MT6AB	1		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
3	Capacitor	Moulding gold green	ROHS 47UF 1210	2	Tai suo	CE/2008/19508 (attached P3)	2008-02-13	SGS	ND	ND	ND	ND	ND	ND
		Tantalum powder				CE/2008/21496 (attached P4)	2008-02-20	SGS	ND	ND	ND	ND	ND	ND
		Tantalum wire				CE/2008/ 21491 (attached P5)	2008-02-20	SGS	ND	ND	ND	ND	ND	ND
		Manganese nitrate				CE/2008/21494 (attached P6)	2008-02-20	SGS	ND	ND	ND	ND	ND	ND

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Item	Description		Specifications	Qty	supplier	test report No.	date of issue	laboratory	test result (unit: PPM)					
									Cd	Pb	Hg	Cr/VI	PBB	PBDE
		Graphite STD				CE/2008/19551 (attached P7)	2008-02-13	SGS	ND	ND	ND	ND	ND	ND
		Silver				CE/2008/21499 (attached P8)	2008-02-20	SGS	ND	ND	ND	ND	ND	ND
		Paste				CE/2008/ 21498 (attached P9)	2008-02-20	SGS	ND	ND	ND	ND	ND	ND
		Solder paste				CE/2008/219553 (attached P10)	2008-02-13	SGS	ND	6	ND	ND	ND	ND
		Leadframe NILO-Sn				CE/2008/19545A (attached P11)	2008-02-20	SGS	ND	319	ND	ND	ND	ND
4	Inductance		ROHS 1UH±10% 1812	4	Tai suo	CE/2008/34047 (attached P12)	2008-03-19	SGS	ND	ND	ND	ND	ND	ND
5	Crystal oscillator		ROHS 12MHz 30PPM 11*4mm SMD	1	BO li da	CANEC0800544501(attachedP13)	2008-03-05	SGS	ND	ND	ND	ND	ND	ND
6	Magnetic bead		ROHS 56Ω 0805	3	Tai suo	CE/2008/34047 (attached P14)	2008-03-19	SGS	ND	ND	ND	ND	ND	ND
			ROHS 600Ω 0603	1		CE/2008/34047 (attached P14)	2008-03-19	SGS	ND	ND	ND	ND	ND	ND
7	LED	LAMP	ROHS Φ3	2	Hong jin	GZ0711179980A/CHEM(attachedP15)	2008-4-16	SGS	ND	6	ND	ND	ND	ND
		SMD LED				CANEC0802822801 (attached P16)	2008-6-7	SGS	ND	ND	ND	ND	ND	ND
8	PCB		ROHS 36*36*1.2 mm	1	Hua xing	CANEC0801059201 (attached P17)	2008-03-24	SGS	ND	15	ND	ND	ND	ND
9	EVA		ROHS Φ15*0.5mm BK	2	Jin run he	CANEC0700699901(attached P18)	2007-11-14	SGS	ND	6	ND	ND	ND	ND
			ROHS 120*3.0*1.5mm	2		CANEC0700699901(attached P18)	2007-11-14	SGS	ND	6	ND	ND	ND	ND
10	Plastic		ROHS ABS	9	S5	KA/2008/10040 (attached P19)	2008-01-09	SGS	ND	ND	ND	ND	ND	ND
11	Lampshade		ROHS PMMA	1	S5	KA/2008/10056 (attached P20)	2008-01-09	SGS	ND	ND	ND	ND	ND	ND
12	Glide board		ROHS POM	2	S5	CD/2008/10512 (attached P21)	2008-01-06	SGS	ND	ND	ND	ND	ND	ND
13	Speaker unit		ROHS 1.2" 8Ω 3w	2	Yong sheng	SZHH00303727(attachedP22)	2008-10-06	Intertek	ND	ND	ND	ND	ND	ND

bill of material (RoHS)

Model:

Item	Description		Specifications	Qty	supplier	test report No.	date of issue	laboratory	test result (unit: PPM)					
									Cd	Pb	Hg	Cr/V I	PBB	PBDE
14	USB wire	Brassy metal	ROHS Φ 2.9mm L=1.6m	1	Ding tai	GZ0707098676/CHEM(attachedP23)	2007-07-18	SGS	ND	42	ND	ND	ND	ND
		Color powder				SH7013378/CHEM(attachedP24)	2007-02-08	SGS	ND	ND	ND	ND	ND	ND
		Plastic grains				GZ0707098677/CHEM(attachedP25)	2007-07-18	SGS	ND	17	ND	ND	ND	ND
		Color plastic				GZ0702024726/CHEM(attachedP26)	2007-03-07	SGS	ND	5	ND	ND	ND	ND
		Color metal				GZ0707098675/CHEM(attachedP27)	2007-07-18	SGS	ND	ND	ND	ND	ND	ND
		Metal wire				GZ0701009563A/CHEM(attachedP28)	2007-03-06	SGS	ND	7	ND	ND	ND	ND
		Metal terminal				GZ0705069465/CHEM(attachedP29)	2007-03-23	SGS	ND	21	ND	ND	ND	ND
		PVC				GZ0703029657/CHEM(attachedP30)	2007-03-14	SGS	ND	ND	ND	ND	ND	ND
		Metal				GZ0705068556/CHEM(attachedP31)	2007-05-22	SGS	ND	4	ND	ND	ND	ND
		Tin thread				A07032803C2342(attachedP32)	2007-03-28	^OV	ND	89.6	ND	ND	ND	ND
15	Switch	Brass	ROHS	1	Hao yu	GZ0712190867/CHEM(attachedP33)	2007-12-21	SGS	4	165	ND	ND	ND	ND
		Lron shell				GZ0712190866/CHEM(attachedP34)	2007-12-21	SGS	ND	ND	ND	ND	ND	ND
		Phenolic resin				GZ0707105752/CHEM(attachedP35)	2007-08-01	SGS	ND	ND	ND	ND	ND	ND
		Plastic				GZ0707105751/CHEM(attachedP36)	2007-08-01	SGS	ND	ND	ND	ND	ND	ND
		Green liquid				GZ0712199380/CHEM(attachedP37)	2008-01-04	SGS	ND	ND	ND	ND	ND	ND
		Brown liquid				GZ0712199378/CHEM(attachedP38)	2008-01-04	SGS	ND	ND	ND	ND	ND	ND
16	Spring	ROHS Φ 0.4*OD9.0* L9.0*6N	1	Ye tong	CANEC0802581702(attachedP39)	2008-05-27	SGS	ND	ND	ND	ND	ND	ND	ND
17	Navigation steel	ROHS 138*13.1*1.5mm	1	Wei feng	GZSCR0809103587/LP(attachedP40)	2008-09-10	SGS	ND	ND	ND	ND	ND	ND	ND

bill of material (RoHS)

Model:

Item	Description		Specifications	Qty	supplier	test report No.	date of issue	laboratory	test result (unit: PPM)					
									Cd	Pb	Hg	Cr/VI	PBB	PBDE
18	Screw		ROHS KA1.3*8.0mm Φ2.4mm W	6	Jin ji li	CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
			ROHS PM3.0*6.0mm Φ5.0mm W	1		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
			ROHS KA2.3*8.0mm Φ4.0mm W	2		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
			ROHS PA2.3*8.0mm Φ3.6mm W	6		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
			ROHS PWA2.3*6.0mm Φ6.0mm BK	1		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
			ROHS PA2.6*8.0mm Φ4.0mm W	2		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
19	IC	PURE TIN	ROHS AD62550A LQFP-32PIN	1	Bing zhen	CE/2008/90943(attached P42)	2008-09-10	SGS	ND	13	ND	ND	ND	ND
		LEAD FRAME				KA/2007/C2817R3(attached P43)	2008-02-12	SGS	ND	ND	ND	ND	ND	ND
		SILVER GRAY RASTE				KA/2008/10254(attached P44)	2008-01-10	SGS	ND	ND	ND	ND	ND	ND
		EPOXY MOLDING COMPOUND				KA/2008/62610A-02(attached P45)	2008-07-09	SGS	ND	ND	ND	ND	ND	ND
		GOLD BONDING WIRE				KA/2008/131720A-02(attached P46)	2008-12-04	SGS	ND	ND	ND	ND	ND	ND

YfV



P1

TEST REPORT

Applicant : SAMSUNG ELECTRO-MECHANICS CO., LTD.
 Address : 314, Maetan-3Dong, Yeongtong-Gu,
 Suwon-City, Gyunggi-Do, 443-742 Korea

Page: 1 of 4

Report No. RT07R-6953-001

Date: Nov. 16, 2007

Sample Description : The following submitted sample(s) said to be:-

Name/Type of Product : Ceramic Chip Capacitor

Name of Material : Materials are ceramic & metal/Brown Ceramic, Silver Metal

Sample ID No. : RT07R-6953-001

Item No. : MLCC F(Y5V) TYPE (CL**F*****)

Manufacturer/Vender : SAMSUNG ELECTRO-MECHANICS CO., LTD.

Sample received : Nov. 13, 2007

Testing Date : Nov. 13, 2007 ~ Nov. 16, 2007

Testing Laboratory : Intertek Testing Center

Testing Environment : Temperature : (22 ~ 26) °C Relative Humidity: (55 ~ 65) %

Test Method(s) : Please see the following page(s).

Test Result(s) : Please see the following page(s).

- * Note 1 : The test results presented in this report relate only to the object tested.
- * Note 2 : This report shall not be reproduced except in full without the written approval of the testing laboratory.
- * Note 3 : The item no. is assigned by client and indicated according to their requirement and guarantee letter.

Tested by,

E.Y.Lee / Chemist

Authorized by,

H.W.Yoo / Lab Manager



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Intertek Testing Center

TEST REPORT

Page: 2 of 4

Date: Nov. 16, 2007

Report No. RT07R-6953-001

Sample ID No. : RT07R-6953-001

Sample Description : Ceramic Chip Capacitor

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	0.5	N.D.
Lead (Pb)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	5	N.D.
Mercury (Hg)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.
Hexavalent Chromium (Cr ⁶⁺)	mg/kg	US EPA 3060A and determined by UV-VIS	1	N.D.
Polybrominated Biphenyl (PBBs)				
Monobromobiphenyl	mg/kg	With reference to US EPA 3540C, by solvent extraction and determined by GC/MS	5	N.D.
Dibromobiphenyl	mg/kg		5	N.D.
Tribromobiphenyl	mg/kg		5	N.D.
Tetrabromobiphenyl	mg/kg		5	N.D.
Pentabromobiphenyl	mg/kg		5	N.D.
Hexabromobiphenyl	mg/kg		5	N.D.
Heptabromobiphenyl	mg/kg		5	N.D.
Octabromobiphenyl	mg/kg		5	N.D.
Nonabromobiphenyl	mg/kg		5	N.D.
Decabromobiphenyl	mg/kg		5	N.D.
Polybrominated Diphenyl Ether (PBDEs)				
Monobromodiphenyl ether	mg/kg	With reference to US EPA 3540C, by solvent extraction and determined by GC/MS	5	N.D.
Dibromodiphenyl ether	mg/kg		5	N.D.
Tribromodiphenyl ether	mg/kg		5	N.D.
Tetrabromodiphenyl ether	mg/kg		5	N.D.
Pentabromodiphenyl ether	mg/kg		5	N.D.
Hexabromodiphenyl ether	mg/kg		5	N.D.
Heptabromodiphenyl ether	mg/kg		5	N.D.
Octabromodiphenyl ether	mg/kg		5	N.D.
Nonabromodiphenyl ether	mg/kg		5	N.D.
Decabromodiphenyl ether	mg/kg		5	N.D.

Notes : mg/kg = ppm = parts per million

< = Less than

N.D. = Not detected (<MDL)

MDL = Method detection limit

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Intertek Testing Center

Seoul Office : Tel : 02-2109-1250 Fax : 02-2109-1259 Gumi Office : Tel : 054-462-7647 Fax : 054-462-7657 Web Site : www.intertek.co.kr

Seoul Lab. : #709, 7Fl, Ace Techno Tower V, 197-22, Guro-3Dong, Guro-Gu, Seoul 152-766 Korea Tel : 02-2109-1260 Fax : 02-2109-1258

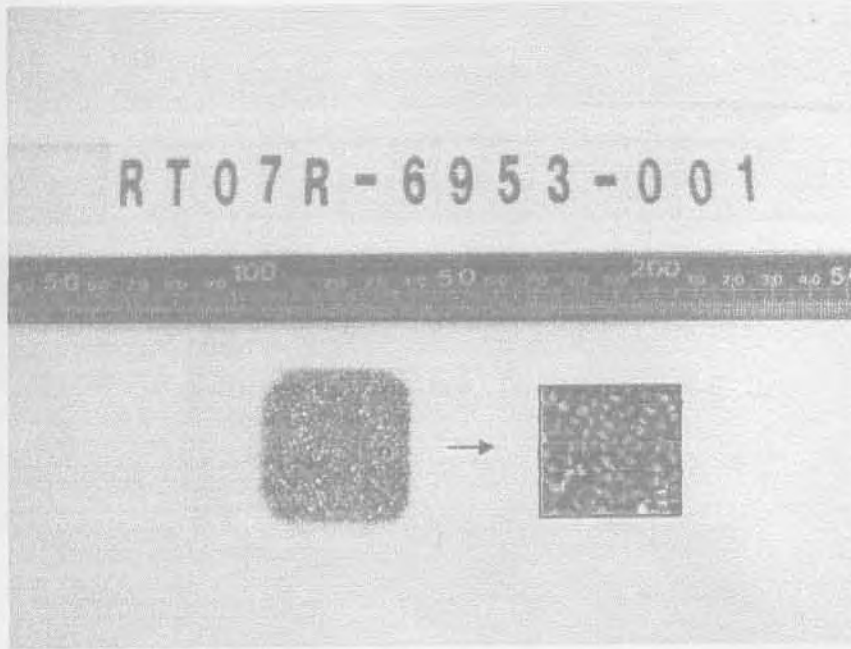
Ulsan Lab. : #340-2, Yongam-Ri, Chongryang-Myun, Ulsu-Gun, Ulsan 689-865 Korea Tel : 052-257-6754 Fax : 052-276-6792

TEST REPORT

Report No. RT07R-6953-001

Sample ID No. : RT07R-6953-001
Sample Description : Ceramic Chip Capacitor

* View of sample as received:-



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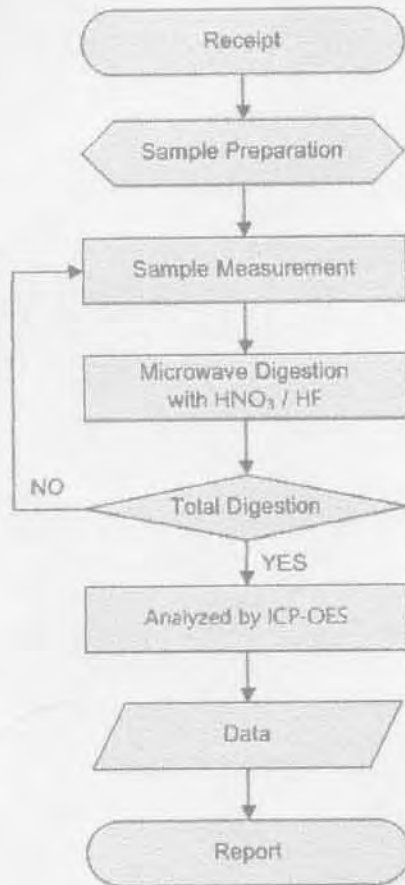
TEST REPORT

Report No. RT07R-6953-001

Page: 4 of 4
Date: Nov. 16, 2007

Sample ID No. : RT07R-6953-001
Sample Description : Ceramic Chip Capacitor

Flow Chart Of Digestion (EPA 3052 For Cd, Pb)



** Remarks : The samples were dissolved totally by pre-conditioning method according to above flow chart.

Prepared by Eung Yong Lee, Chemist

Confirmed by Sang Chul Park, Senior Researcher

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

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Intertek Testing Center

Test Report

No. CANEC0800932401

Date: 20 Mar 2008

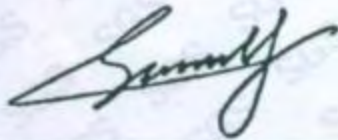
Page 1 of 6

SHIMENG ELECTRONIC (SHEN ZHEN)CO.,LTD
FIRST BUILDING,XINGHUA INDUSTRIAL PARK,TANGWEI VILLAGE GONGMING TOWN,SHENZHEN
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :
THICK FILM CHIP RESISTORS

SGS Job No. : 10895718 - GZ
SGS Internal Reference No. : 2.1
Date of Sample Received : 14 Mar 2008
Testing Period : 14 Mar 2008 - 19 Mar 2008
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.



Huang Fang, Sunny
Sr. Engineer



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GZCM 2037906

Test Report

No. CANEC0800932401

Date: 20 Mar 2008

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Test Results:

ID for specimen 1 : CAN08-009324.001
 Description for specimen 1 : "Chipec resistor" (mixed)

RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Sum of PBDEs(Mono to Nona) (Note 4)	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Sum of PBDEs(Mono to Deca)	mg/kg	-	N.D.	-	



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GZCM 2037907

Test Report

No. CANEC0800932401

Date: 20 Mar 2008

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Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
5. "-" = Not regulated

Remark : As requested by client, the testing was conducted as whole / part sample, for the sample can't be disjointed.



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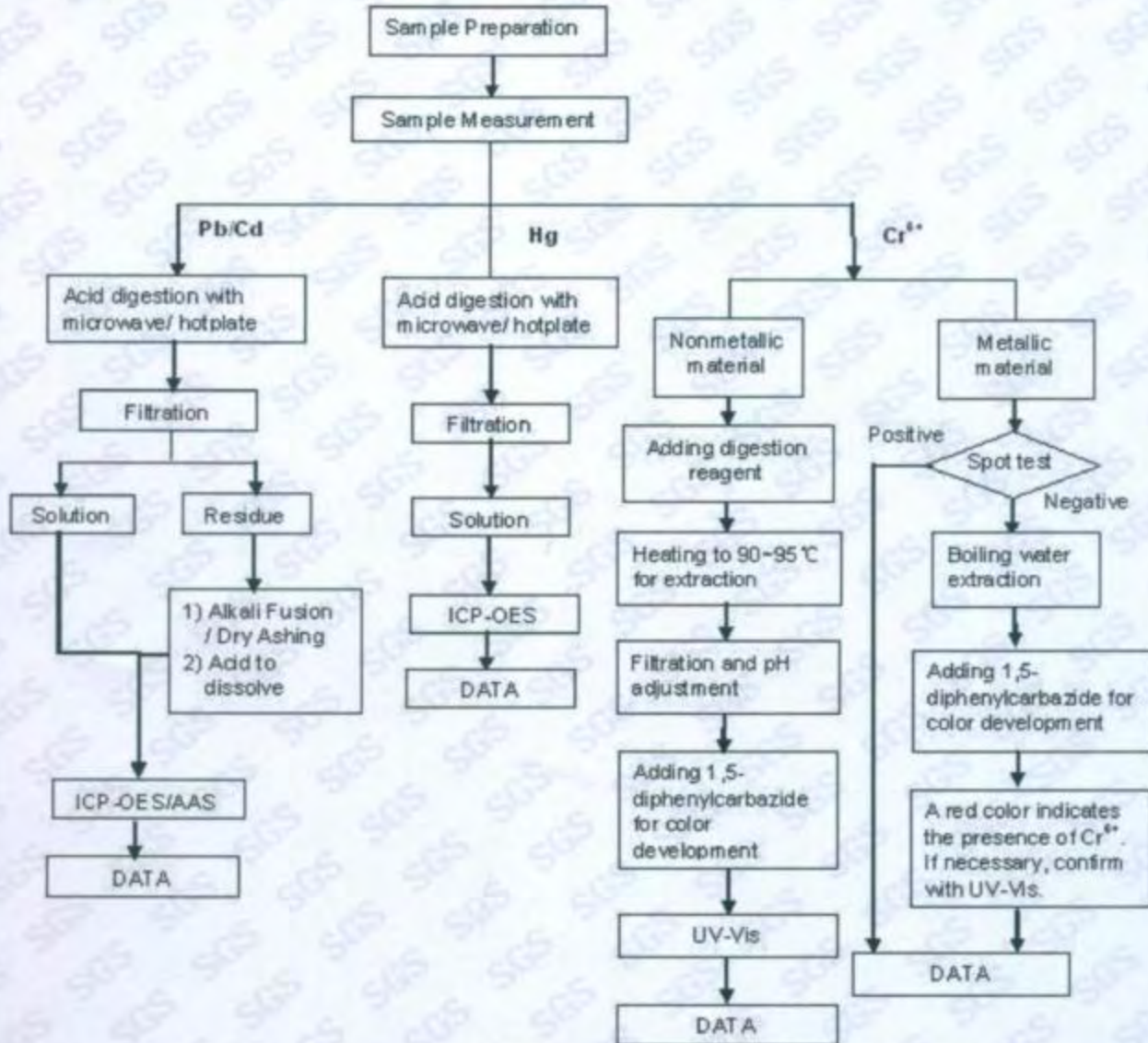


GZCM 2037908

ATTACHMENTS

Testing Flow Chart

- 1) Name of the person who made measurement: David Shen
- 2) Name of the person in charge of measurement: Emily Feng



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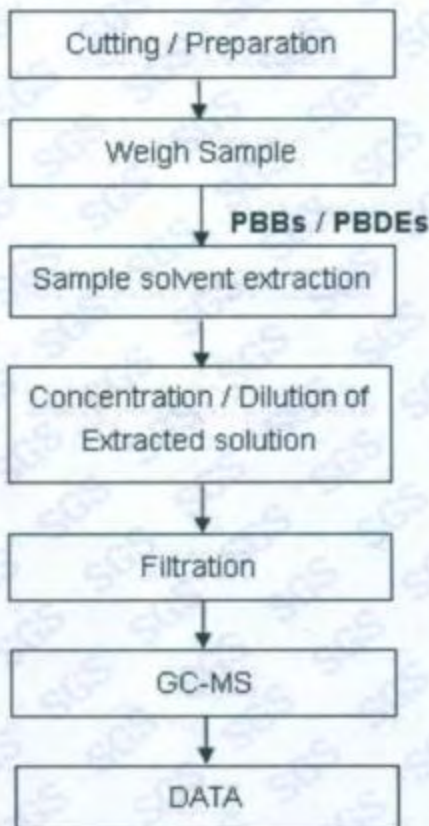


GZCM 2037909

ATTACHMENTS

Testing Flow Chart

- 1) Name of the person who made measurement: Fiona Xu
- 2) Name of the person in charge of measurement: Nina Wu



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GZCM 2037910

Sample photo:



SGS authenticate the photo on original report only

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Test Report

No. : CE/2008/19508

Date : 2008/02/13

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : YELLOWISH BROWN LUMP

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated

Test Report

No. : CE/2008/19508

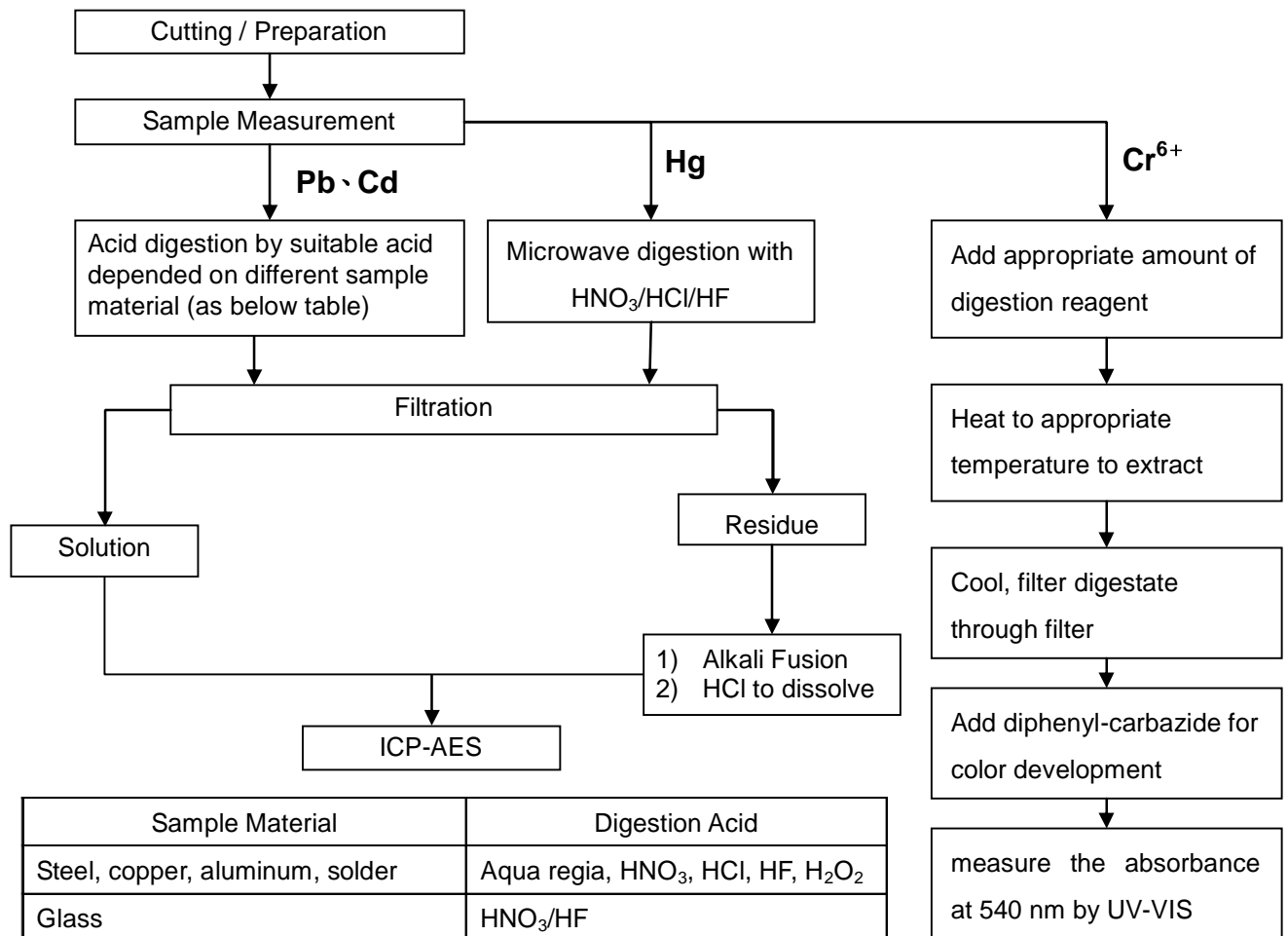
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

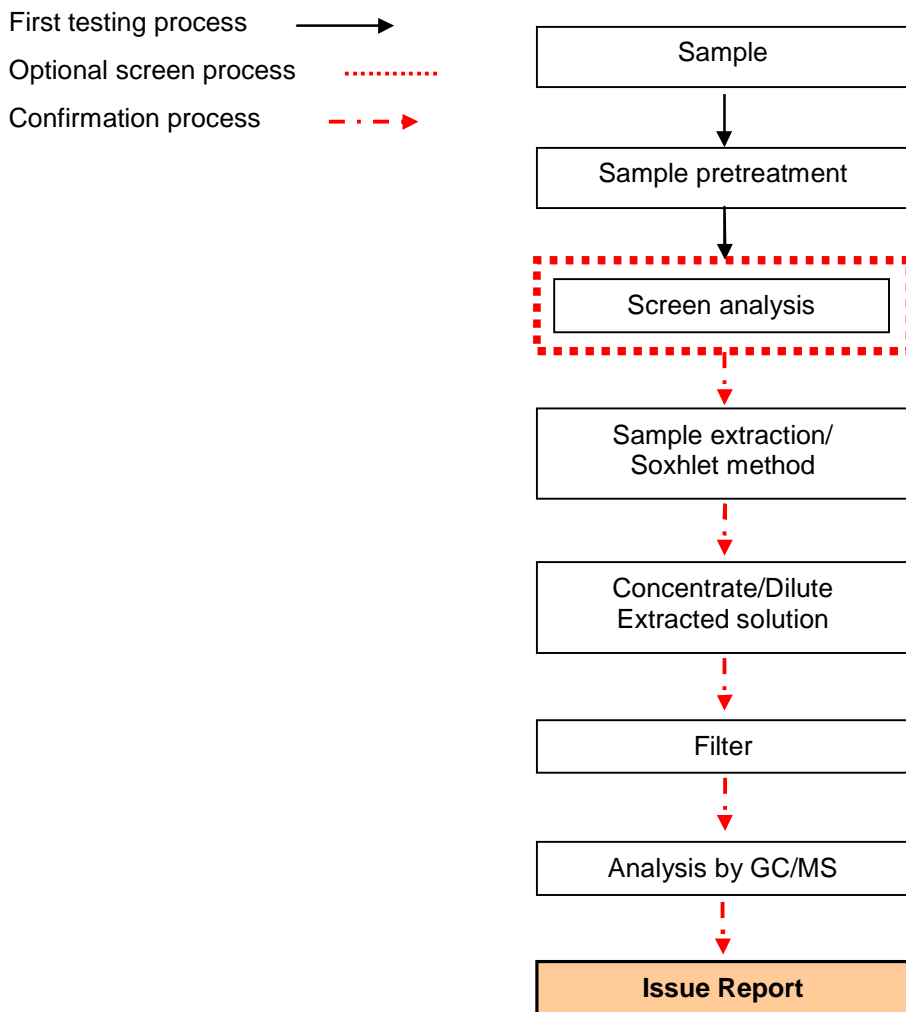
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART



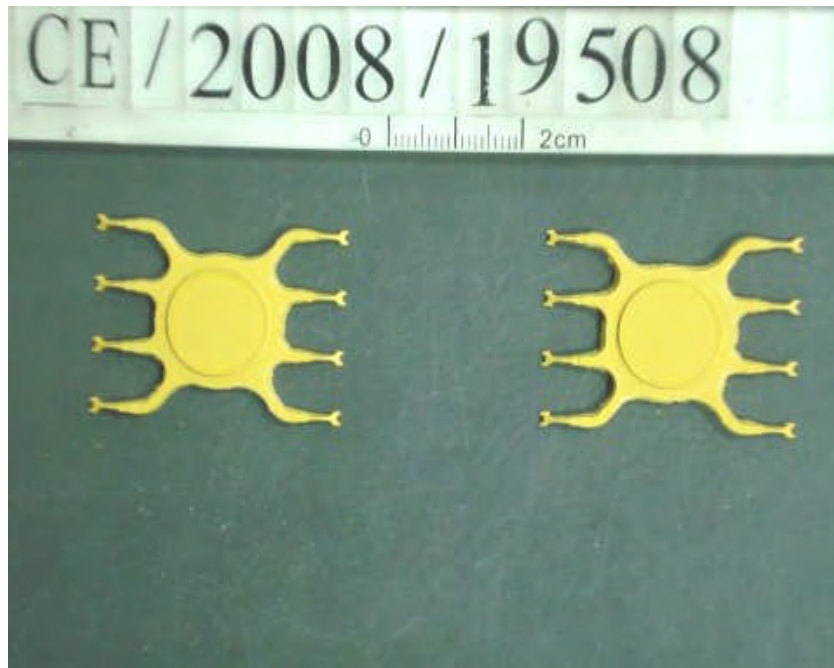
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



** End of Report **

Test Report

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Date : 2008/02/20

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : TANTALUM POWDER
Style/Item No. : TANTALUM DIVISION
Sample Receiving Date : 2008/2/13
Testing Period : 2008/2/13 TO 2008/2/20

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
(1) Determination of Cadmium by ICP-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
(5) Determination of PBB and PBDE by GC/MS.
Test Result(s) : Please refer to next page(s).


Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

Test Report

No. : CE/2008/21496

Date : 2008/02/20

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : BLACK POWDER

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated

Test Report

No. : CE/2008/21496

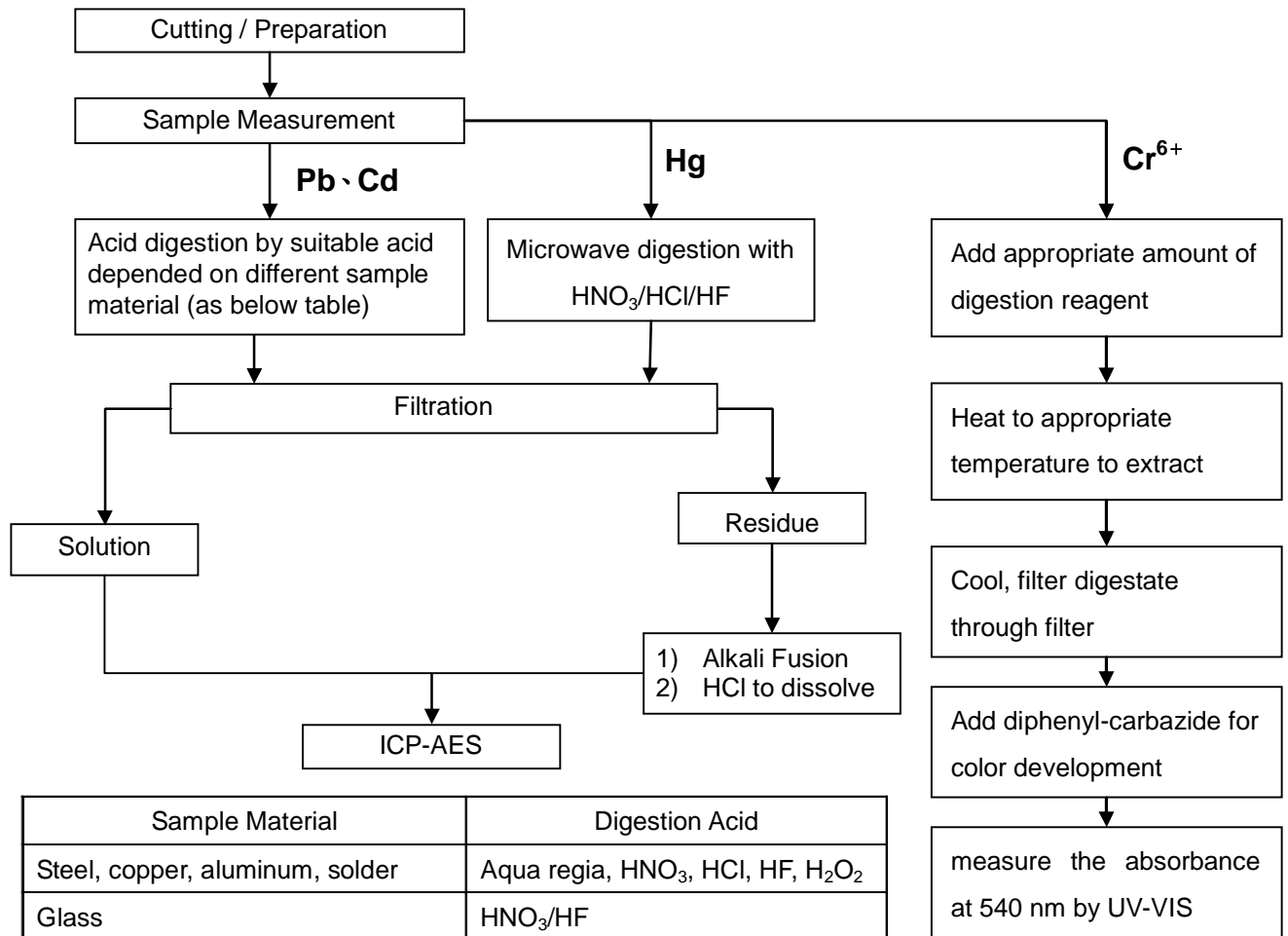
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

No. : CE/2008/21496

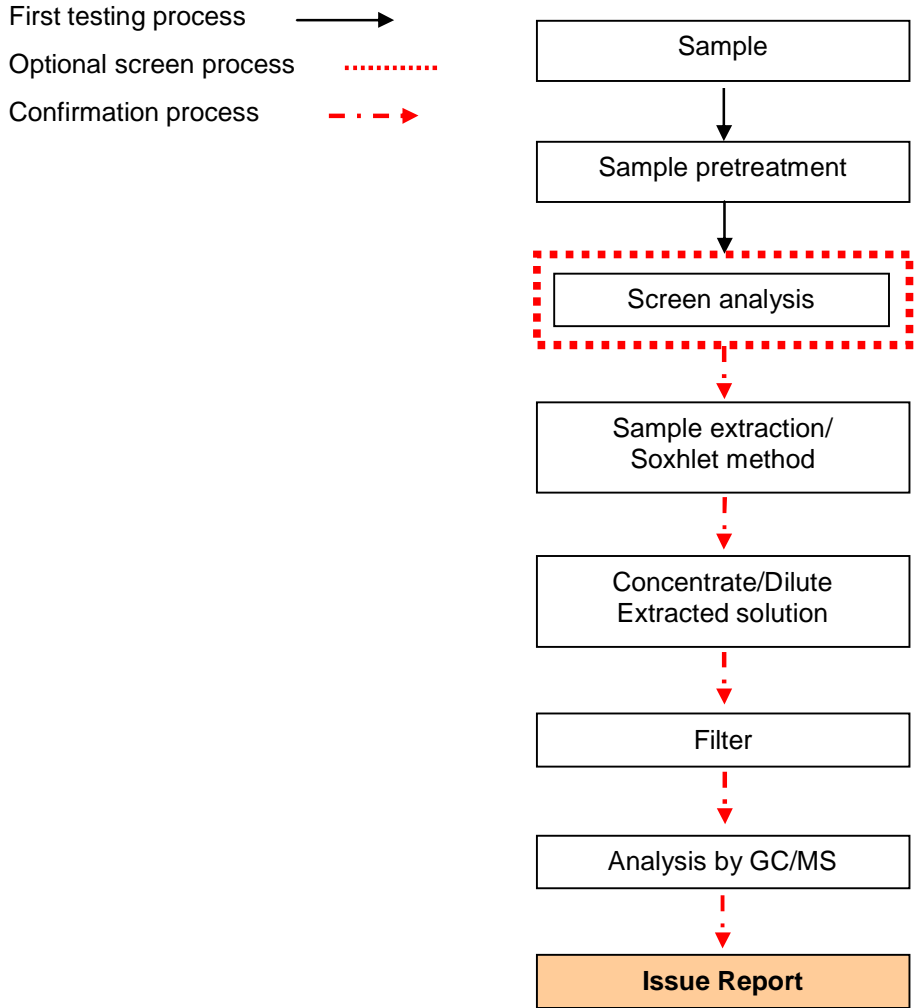
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART



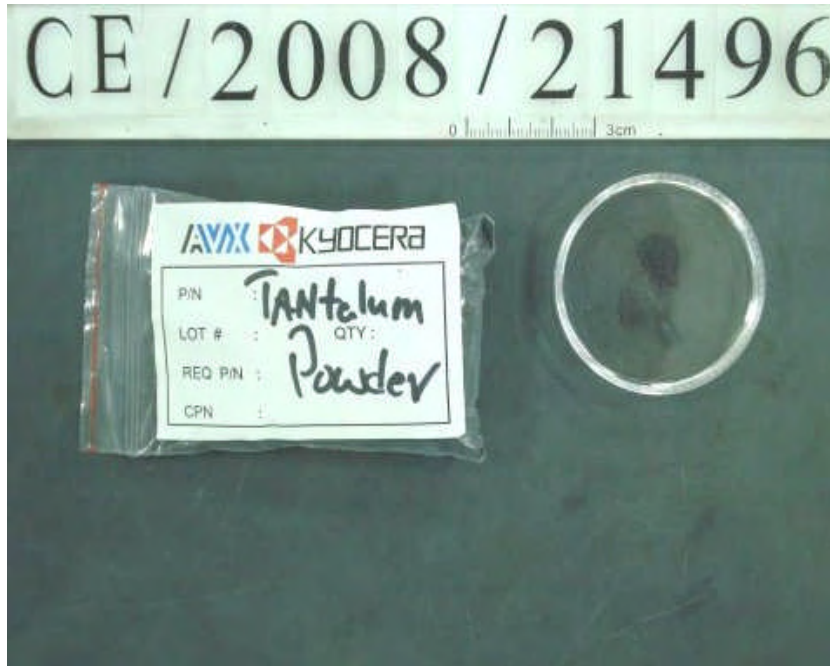
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



** End of Report **

Test Report

No. : CE/2008/21491 Date : 2008/02/20 Page : 1 of 6


AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : TANTALUM WIRE
 Style/Item No. : TANTALUM DIVISION
 Sample Receiving Date : 2008/2/13
 Testing Period : 2008/2/13 TO 2008/2/20

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
 (1) Determination of Cadmium by ICP-AES.
 (2) Determination of Lead by ICP-AES.
 (3) Determination of Mercury by ICP-AES.
 (4) Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.
 (5) Determination of PBB and PBDE by GC/MS.
Test Result(s) : Please refer to next page(s).


 Chenyu Kung / Operation Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory – Taipei

Test Report

No. : CE/2008/21491

Date : 2008/02/20

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 5
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : SILVER COLORED METAL WIRE

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

6. "-" = Not Regulated

Test Report

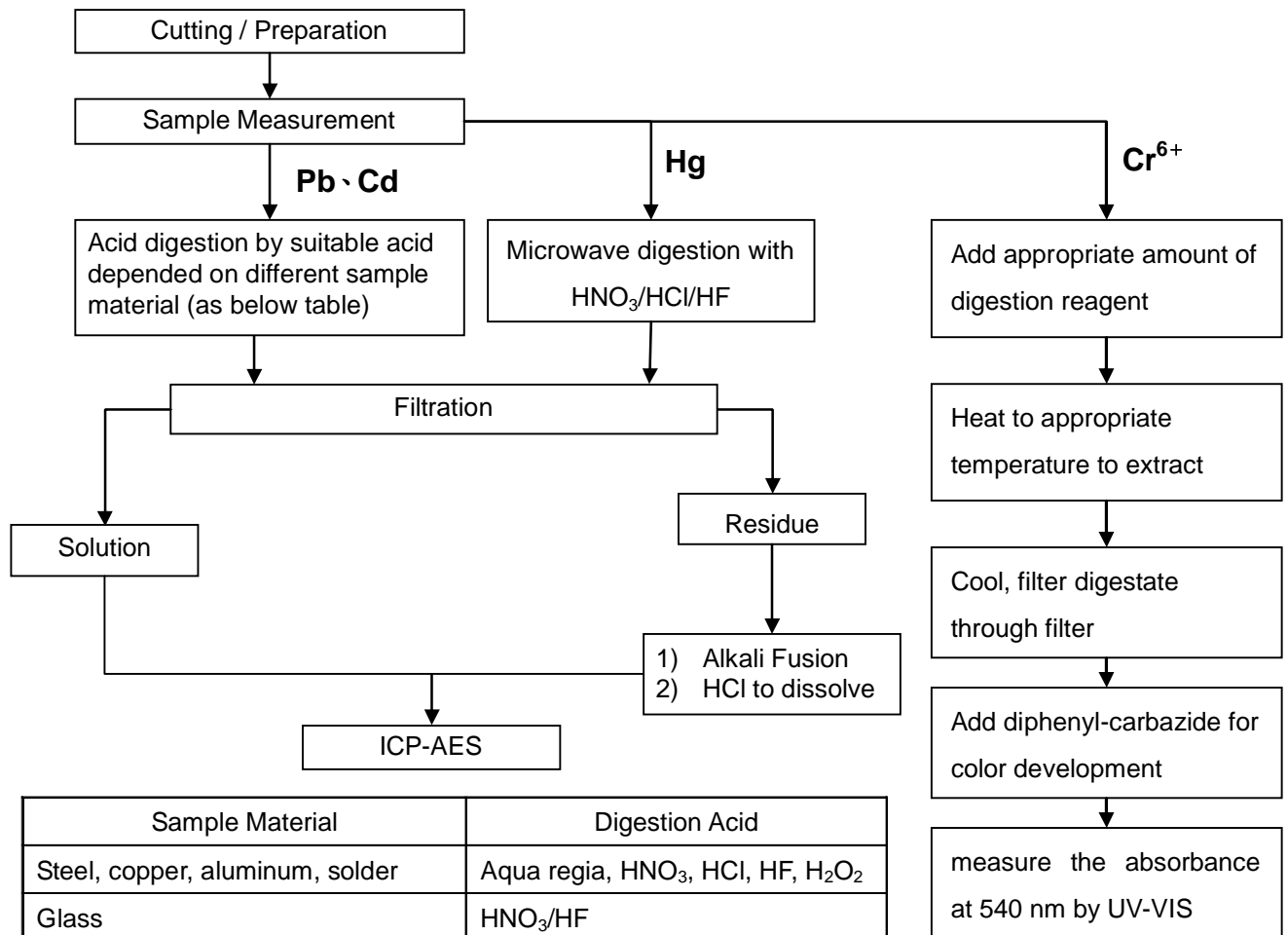
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

No. : CE/2008/21491

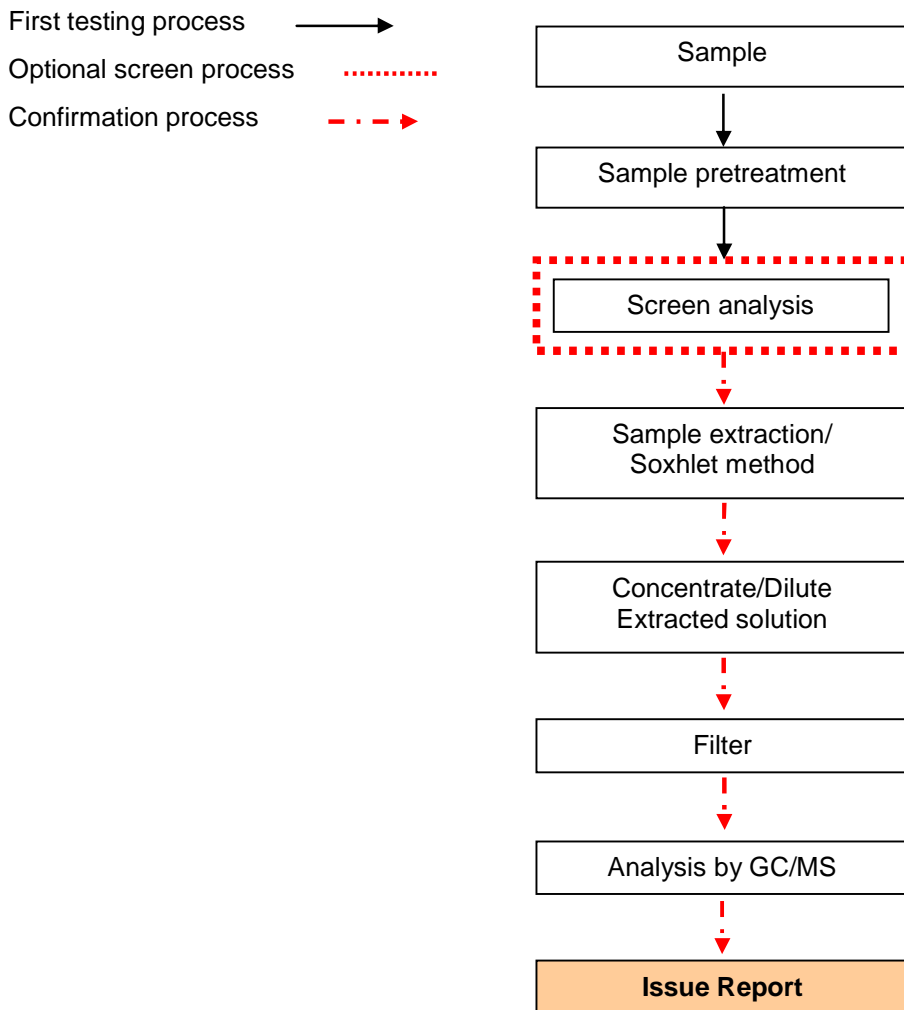
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART



Test Report

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN




The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : MANGANESE NITRATE
 Style/Item No. : TANTALUM DIVISION
 Sample Receiving Date : 2008/2/13
 Testing Period : 2008/2/13 TO 2008/2/20

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
 (1) Determination of Cadmium by ICP-AES.
 (2) Determination of Lead by ICP-AES.
 (3) Determination of Mercury by ICP-AES.
 (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
 (5) Determination of PBB and PBDE by GC/MS.

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


Chenyu Kung / Operation Manager
 Signed for and on behalf of
SGS TAIWAN LTD.
 Chemical Laboratory – Taipei

Test Report

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether	n.d.	5	
Sum of PBDEs (Mono to Deca)	n.d.	-	

TEST PART DESCRIPTION:

NO.1 : PINK PASTE

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated

Test Report

No. : CE/2008/21494

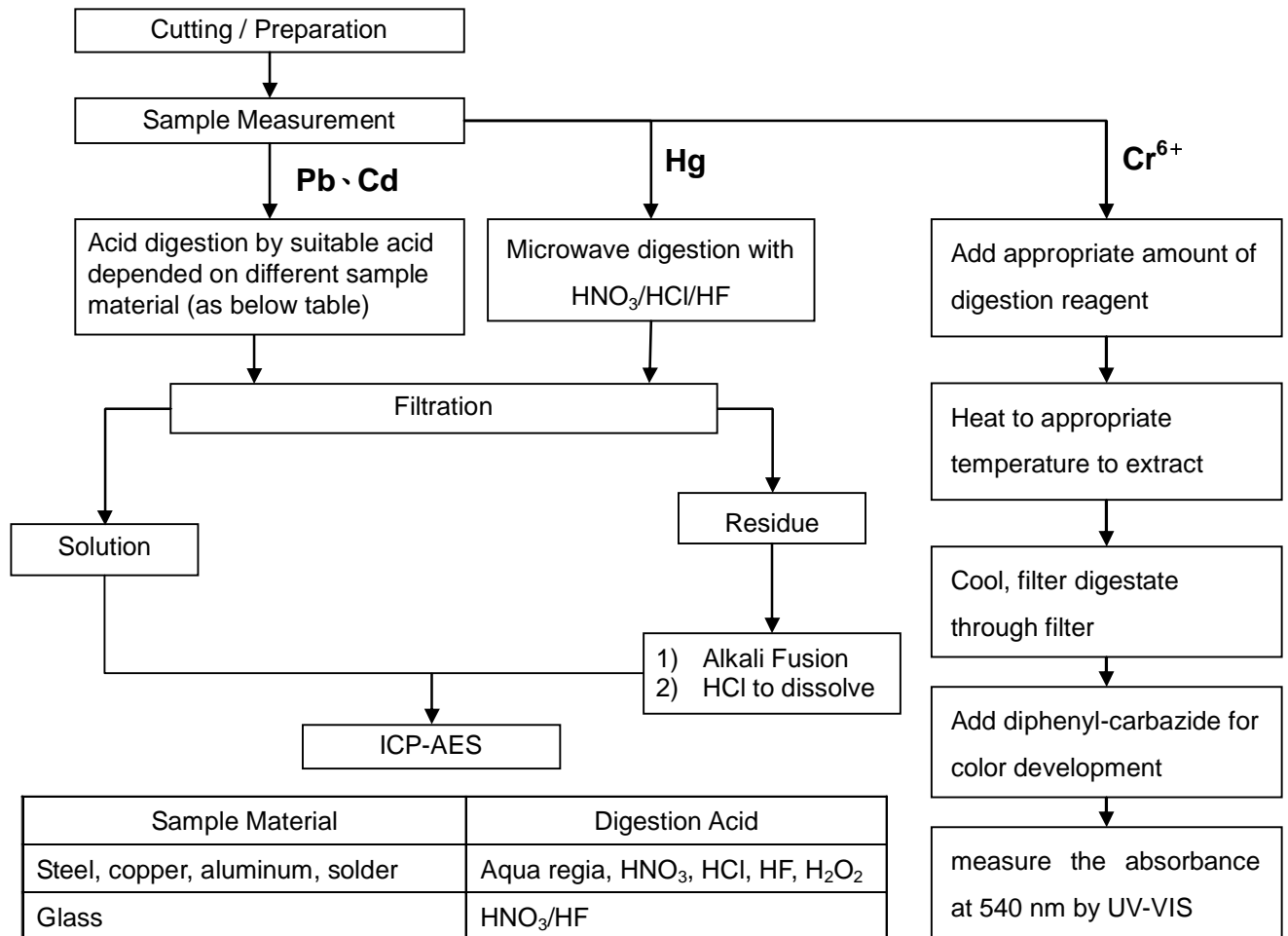
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

No. : CE/2008/21494

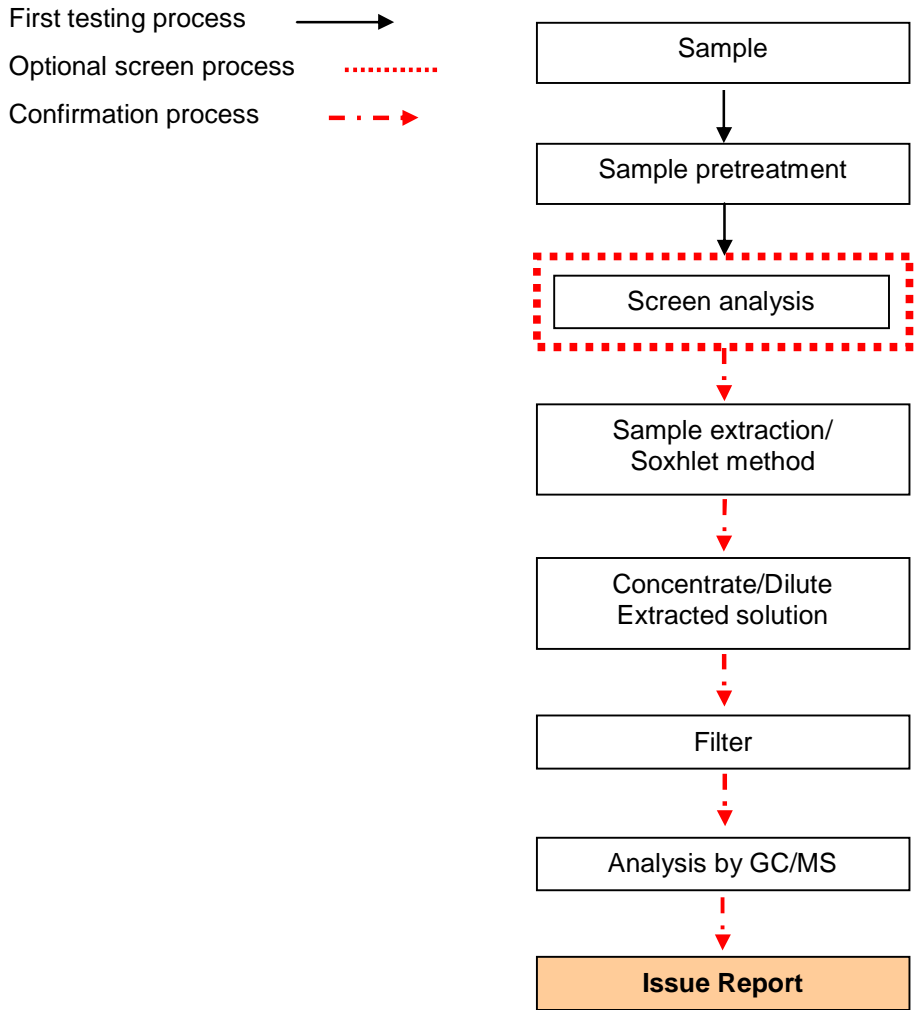
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART



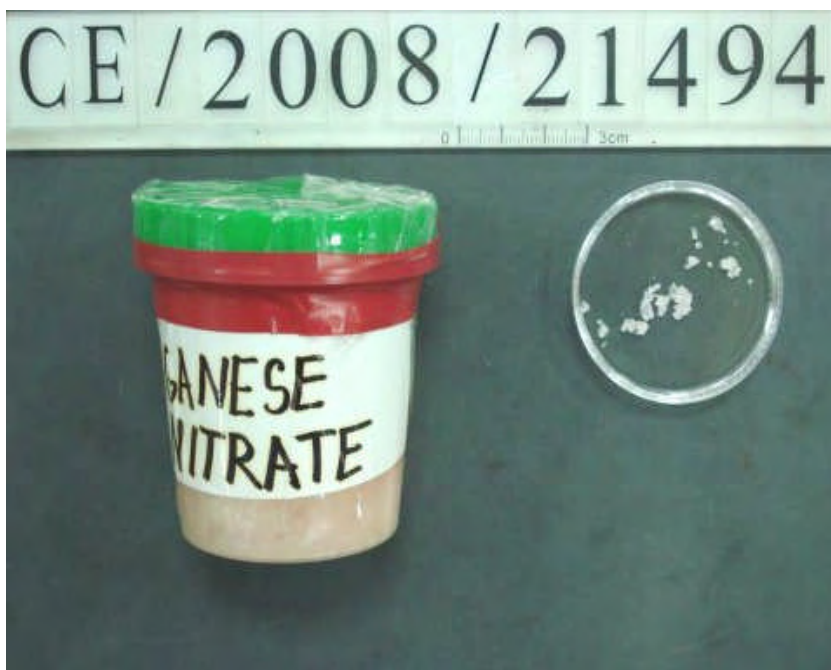
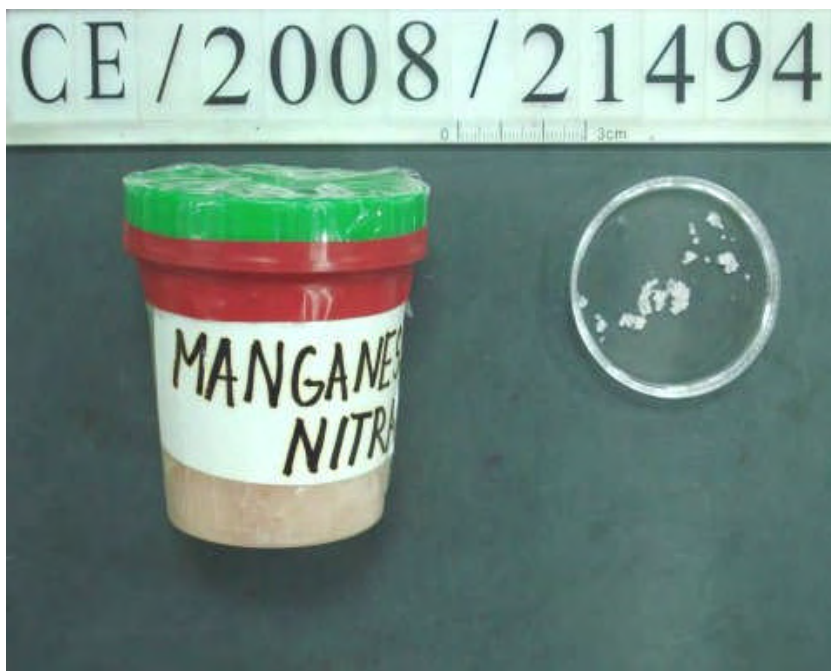
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



** End of Report **

Test Report

No. : CE/2008/19551

Date : 2008/02/13

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : GRAPHITE STD
 Style/Item No. : TANTALUM DIVISION
 Sample Receiving Date : 2008/1/31
 Testing Period : 2008/1/31 TO 2008/2/13

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method : With reference to IEC 62321, Ed.1 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
 (1) Determination of Cadmium by ICP-AES.
 (2) Determination of Lead by ICP-AES.
 (3) Determination of Mercury by ICP-AES.
 (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
 (5) Determination of PBB and PBDE by GC/MS.
Test Result(s) : Please refer to next page(s).


Chenyu Kung / Operation Manager
 Signed for and on behalf of
SGS TAIWAN LTD.
 Chemical Laboratory – Taipei

Test Report

No. : CE/2008/19551

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : BLACK PASTE

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated

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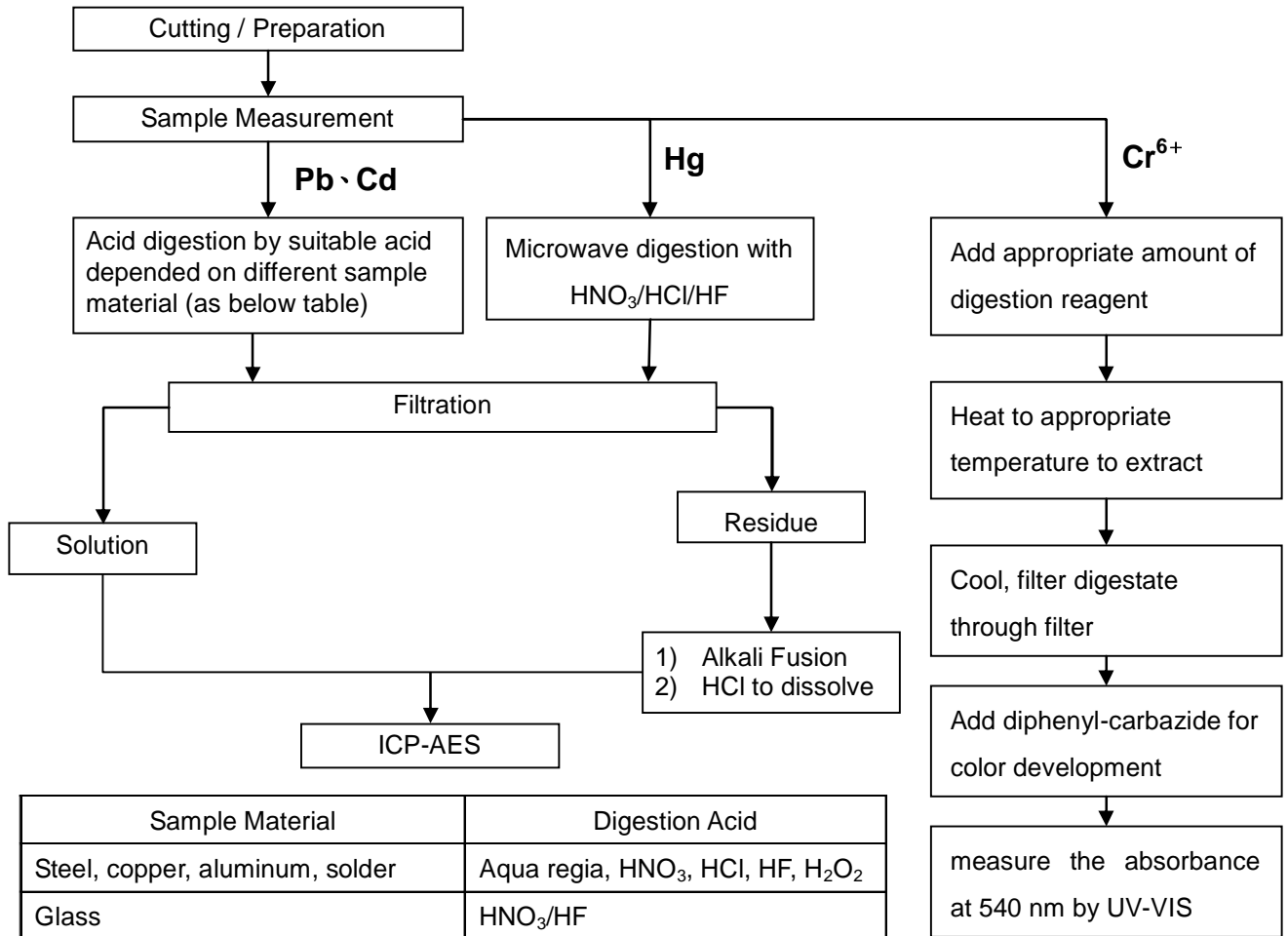
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

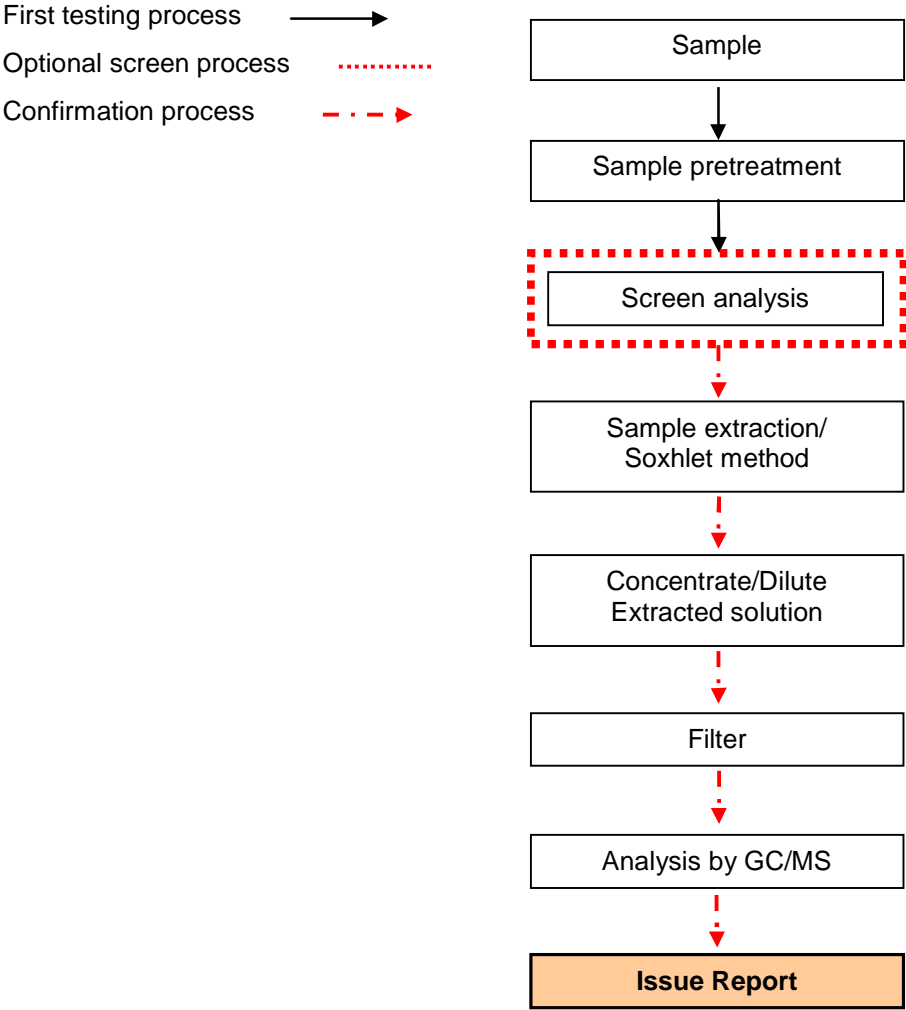
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART



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18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



** End of Report **

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : SILVER-GRAY COLORED LIQUID

- Note : 1. mg/kg = ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. According to 2005/717/EC DecaBDE is exempt.
- 5. "-" = Not Regulated

Test Report

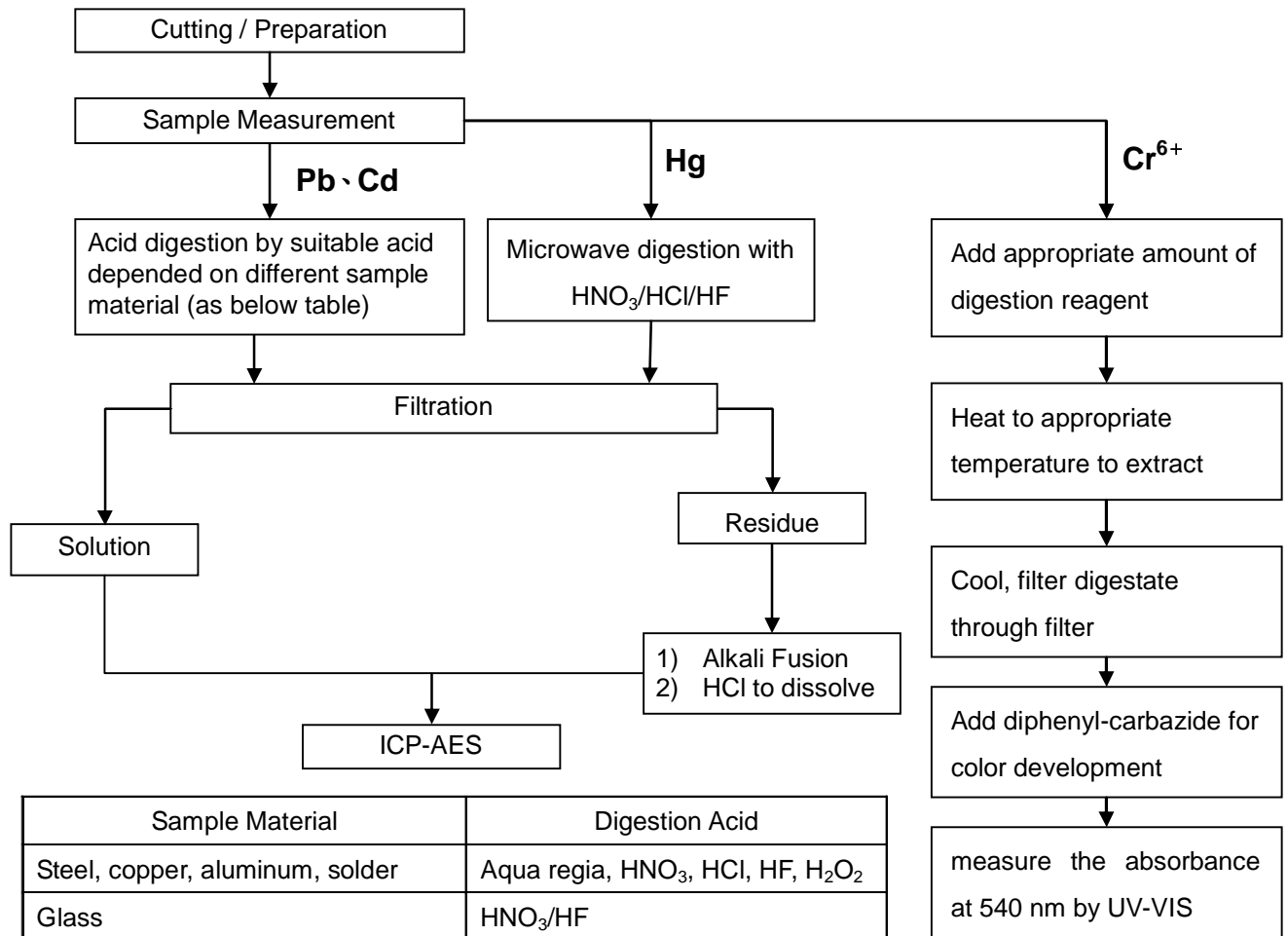
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 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

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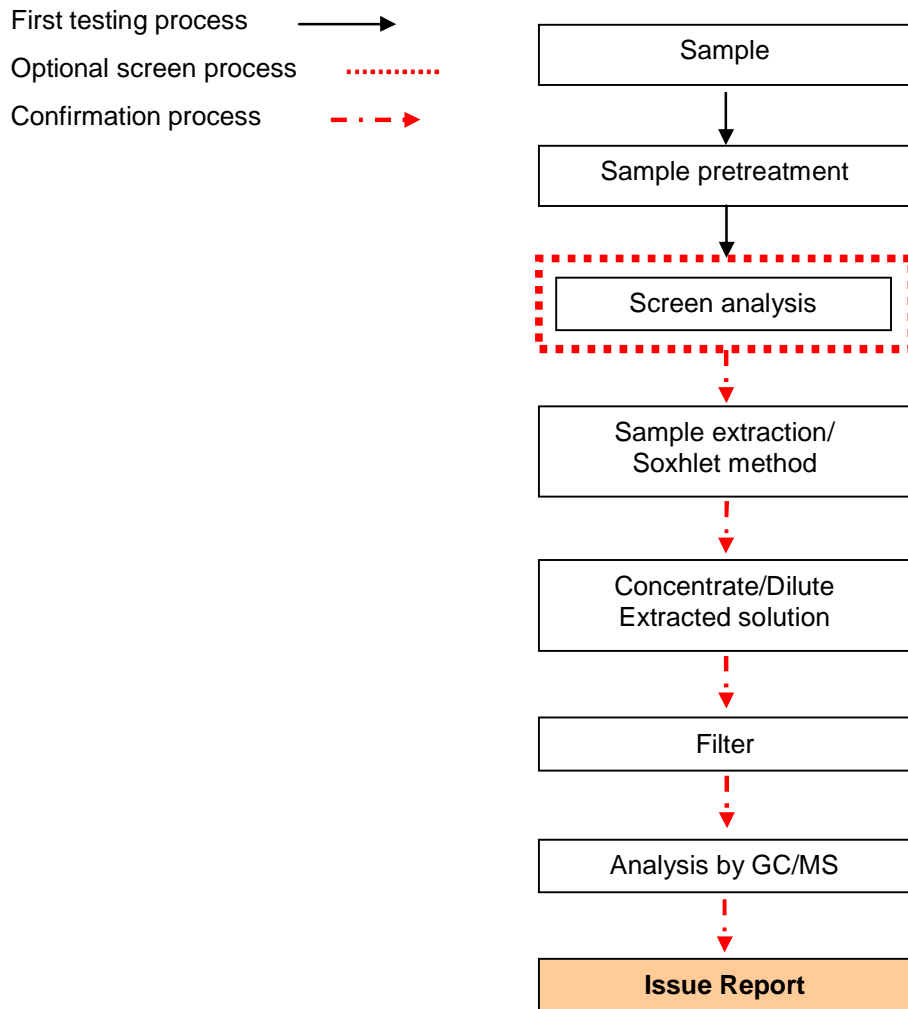
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 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



** End of Report **

Test Report

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN




The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : PASTE II
 Style/Item No. : TANTALUM DIVISION
 Sample Receiving Date : 2008/2/13
 Testing Period : 2008/2/13 TO 2008/2/20

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
 (1) Determination of Cadmium by ICP-AES.
 (2) Determination of Lead by ICP-AES.
 (3) Determination of Mercury by ICP-AES.
 (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
 (5) Determination of PBB and PBDE by GC/MS.

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


Chenyu Kung / Operation Manager
 Signed for and on behalf of
SGS TAIWAN LTD.
 Chemical Laboratory – Taipei

Test Report

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : GRAY PASTE

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated

Test Report

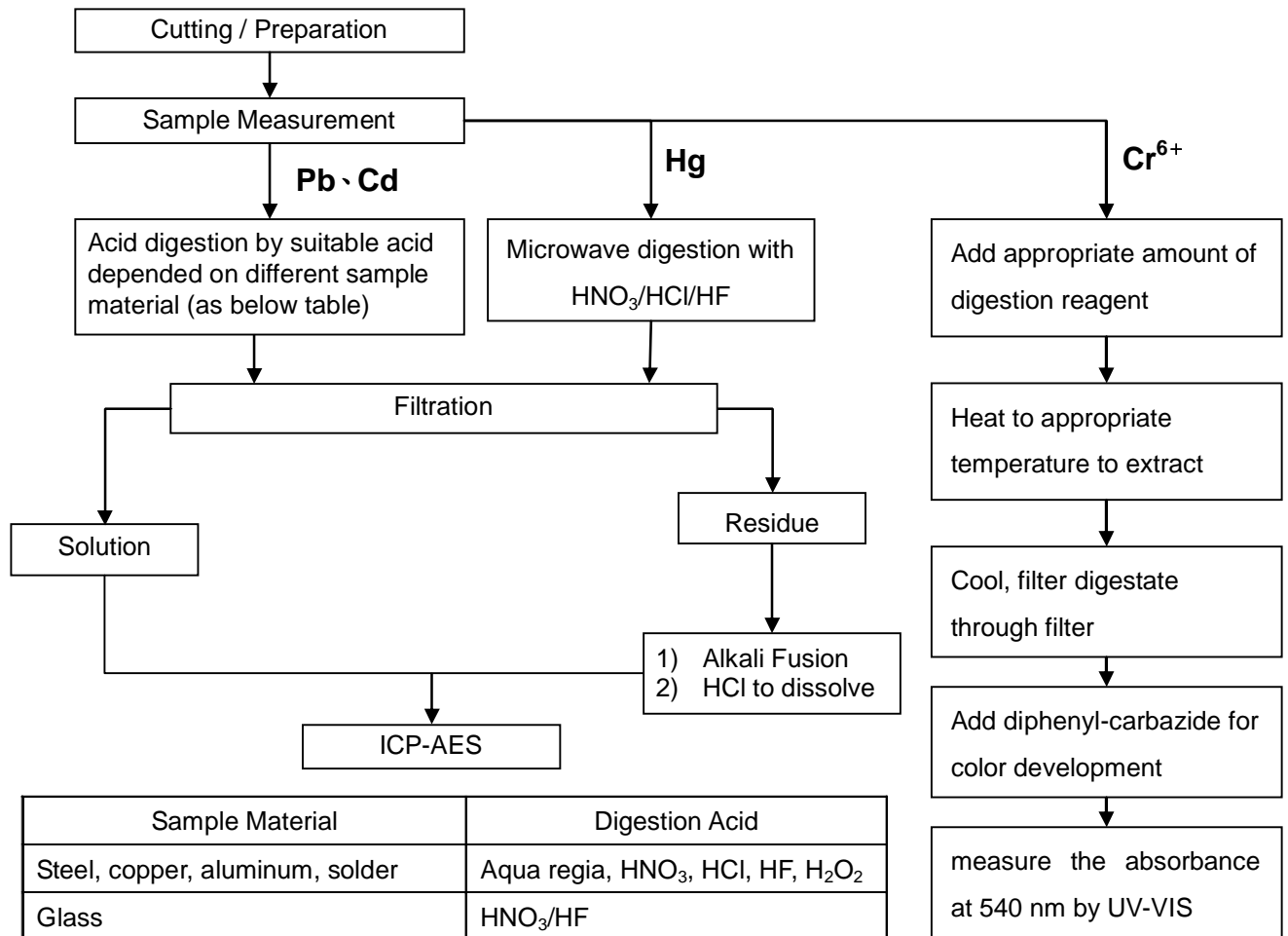
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 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

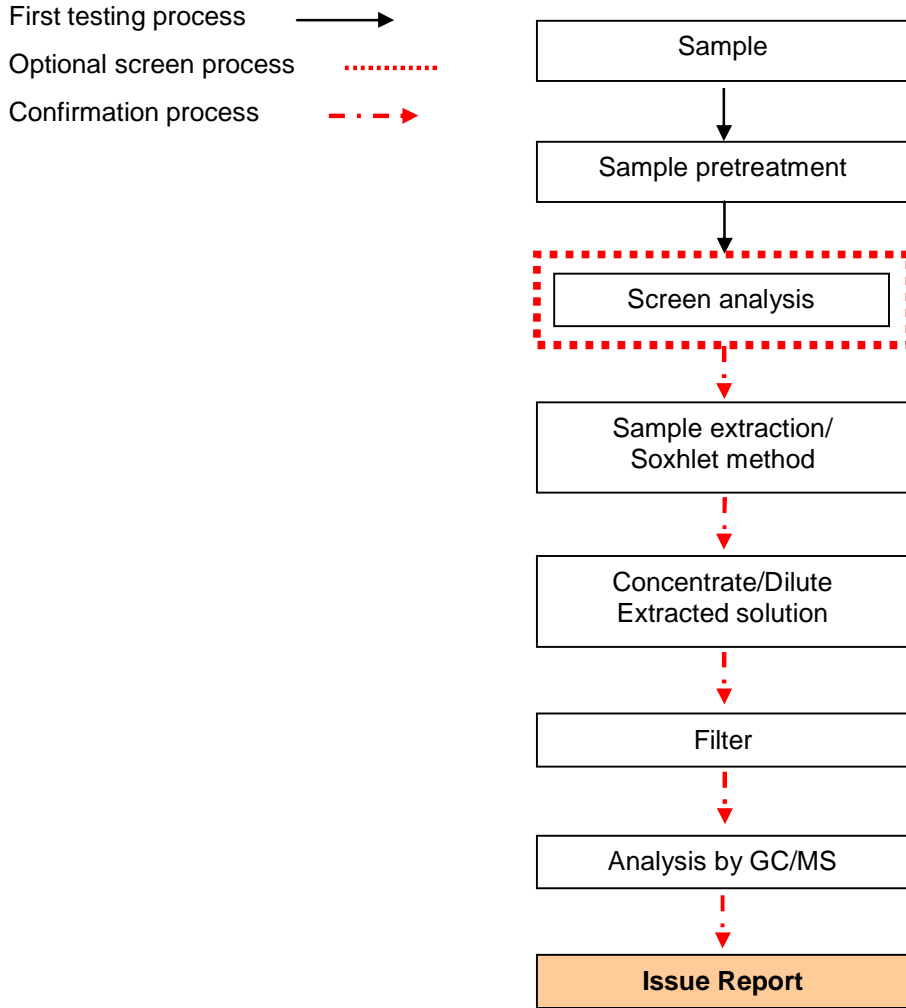
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 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART



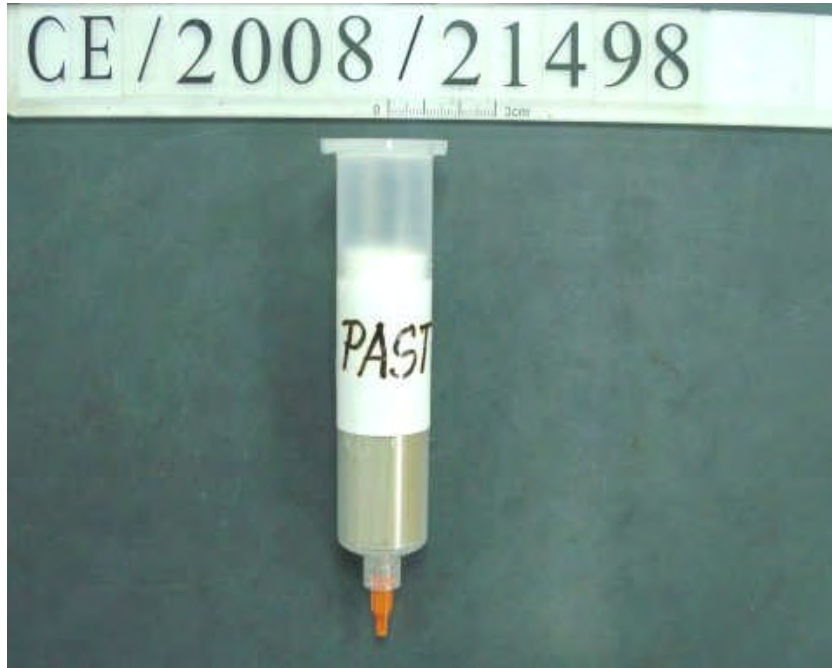
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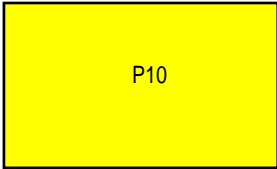
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18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



** End of Report **



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN




The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : SOLDER PASTE
 Style/Item No. : SAC4-325-GM5
 Sample Receiving Date : 2008/1/31
 Testing Period : 2008/1/31 TO 2008/2/13

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
 (1) Determination of Cadmium by ICP-AES.
 (2) Determination of Lead by ICP-AES.
 (3) Determination of Mercury by ICP-AES.
 (4) Determination of Hexavalent Chromium by UV/Vis Spectrometry.
 (5) Determination of PBB and PBDE by GC/MS.

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


Chenyu Kung / Operation Manager
 Signed for and on behalf of
SGS TAIWAN LTD.
 Chemical Laboratory – Taipei

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	6	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : GRAY PASTE

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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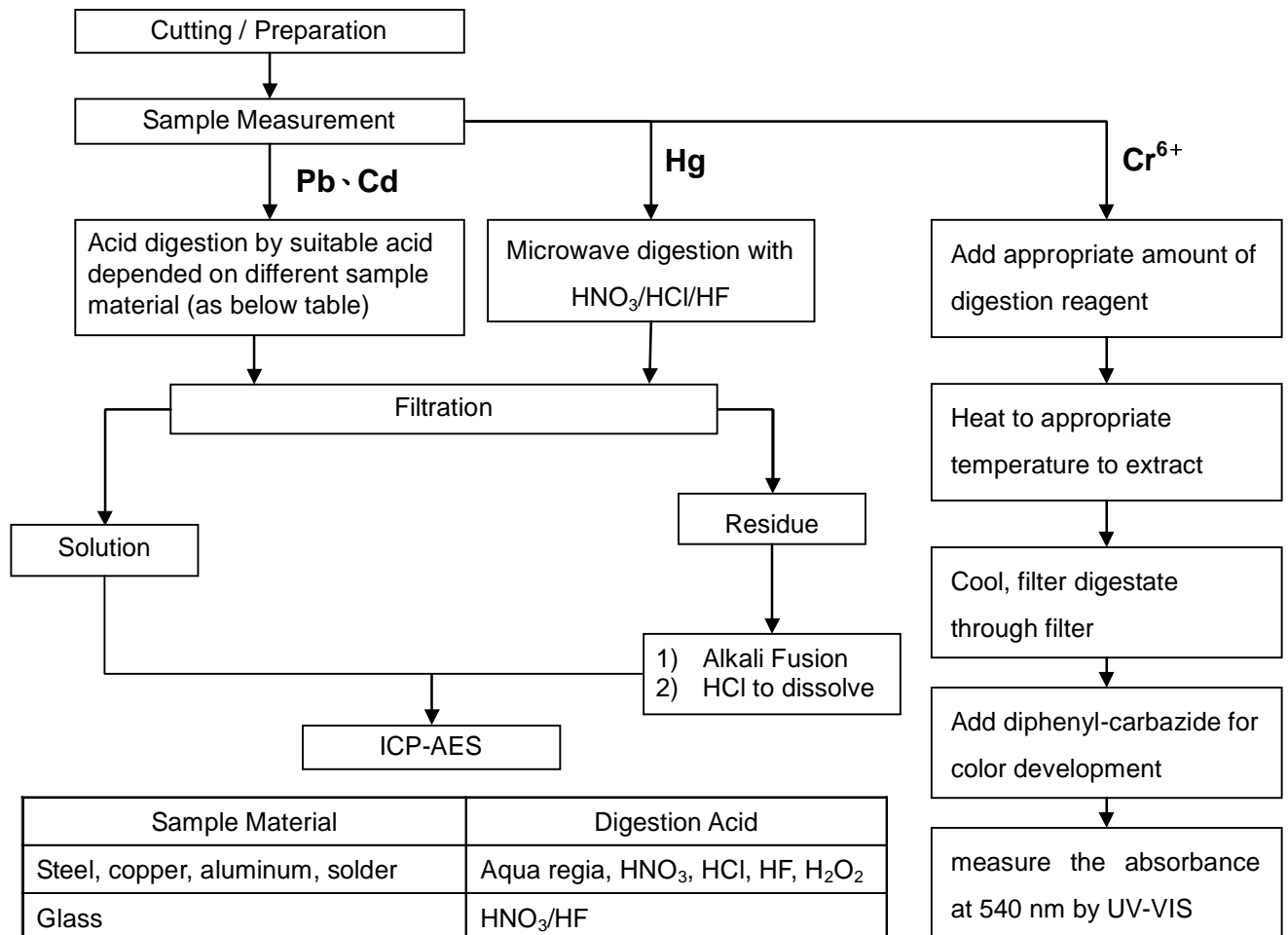
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 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

No. : CE/2008/19553

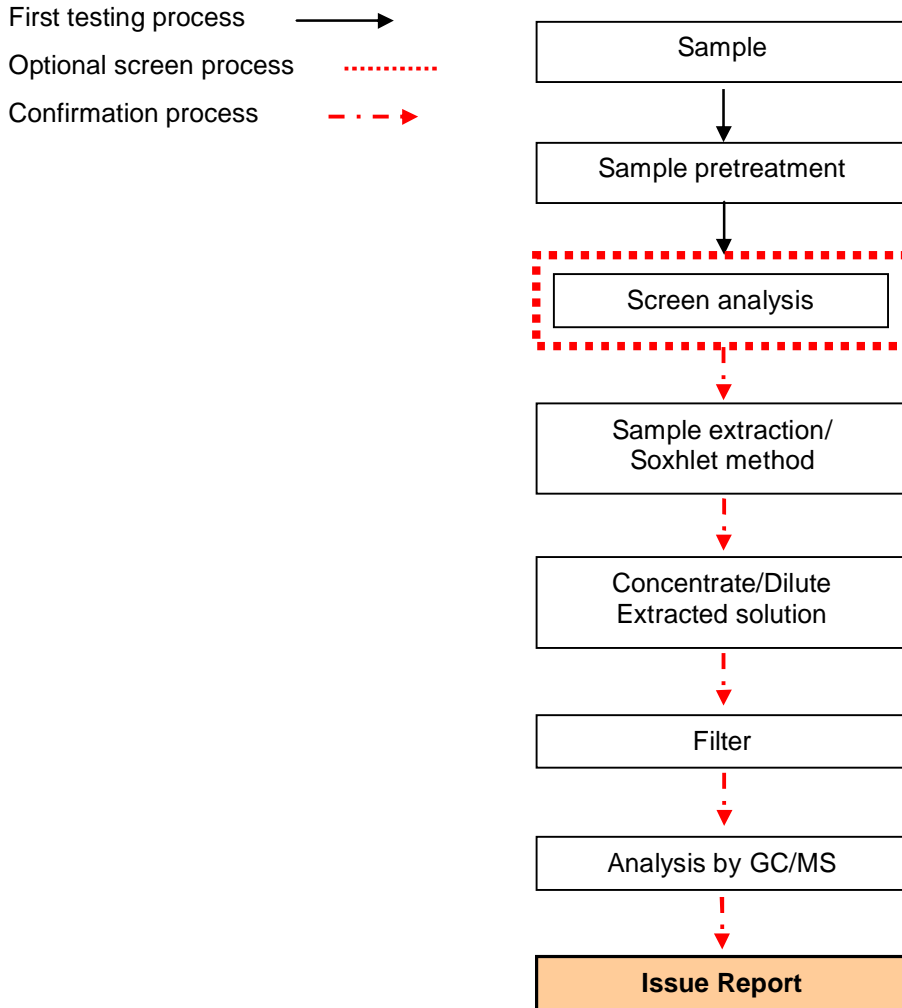
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PBB/PBDE analytical FLOW CHART



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18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN,
 TAIWAN




The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : LEADFRAME NILO-Sn II
 Style/Item No. : TANTALUM DIVISION
 Sample Receiving Date : 2008/01/31
 Testing Period : 2008/01/31 TO 2008/02/13 AND 2008/02/13 TO 2008/02/20

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
 (1) Determination of Cadmium by ICP-AES.
 (2) Determination of Lead by ICP-AES.
 (3) Determination of Mercury by ICP-AES.
 (4) Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.
 (5) Determination of PBB and PBDE by GC/MS.
Test Result(s) : Please refer to next page(s).

* This reports is added testing and combined with CE/2008/19545 *


Chenyu Kung / Operation Manager
 Signed for and on behalf of
SGS TAIWAN LTD.
 Chemical Laboratory – Taipei

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 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN,
 TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result		MDL
		No.1	No.2	
Cadmium (Cd)	(1)	n.d.	n.d.	2
Lead (Pb)	(2)	319	n.d.	2
Mercury (Hg)	(3)	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	Negative	See Note 5
Sum of PBBs	(5)	n.d.	n.d.	-
Monobromobiphenyl		n.d.	n.d.	5
Dibromobiphenyl		n.d.	n.d.	5
Tribromobiphenyl		n.d.	n.d.	5
Tetrabromobiphenyl		n.d.	n.d.	5
Pentabromobiphenyl		n.d.	n.d.	5
Hexabromobiphenyl		n.d.	n.d.	5
Heptabromobiphenyl		n.d.	n.d.	5
Octabromobiphenyl		n.d.	n.d.	5
Nonabromobiphenyl		n.d.	n.d.	5
Decabromobiphenyl		n.d.	n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	n.d.	-
Monobromobiphenyl ether		n.d.	n.d.	5
Dibromobiphenyl ether		n.d.	n.d.	5
Tribromobiphenyl ether		n.d.	n.d.	5
Tetrabromobiphenyl ether		n.d.	n.d.	5
Pentabromobiphenyl ether		n.d.	n.d.	5
Hexabromobiphenyl ether		n.d.	n.d.	5
Heptabromobiphenyl ether		n.d.	n.d.	5
Octabromobiphenyl ether		n.d.	n.d.	5
Nonabromobiphenyl ether		n.d.	n.d.	5
Decabromobiphenyl ether		n.d.	n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	n.d.	-

TEST PART DESCRIPTION:

NO.1 : PLATING LAYER OF SILVER COLORED METAL (CE/2008/19545)
 NO.2 : BASE MATERIAL OF SILVER COLORED METAL (CE/2008/19545)

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18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN,
TAIWAN



Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

6. "-" = Not Regulated

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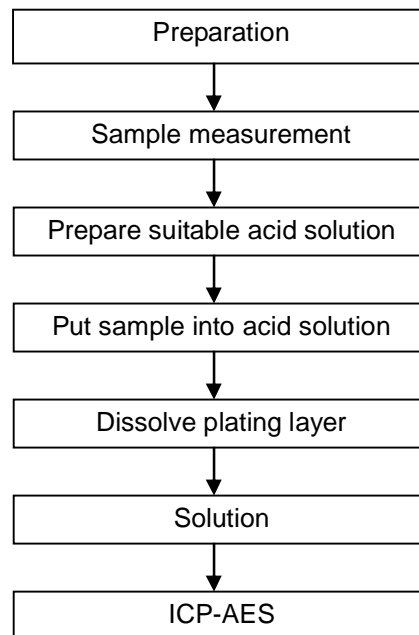
AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN,
TAIWAN



NO.1

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Stripping method for metal analysis



Test Report

No. : CE/2008/19545A Date : 2008/02/20

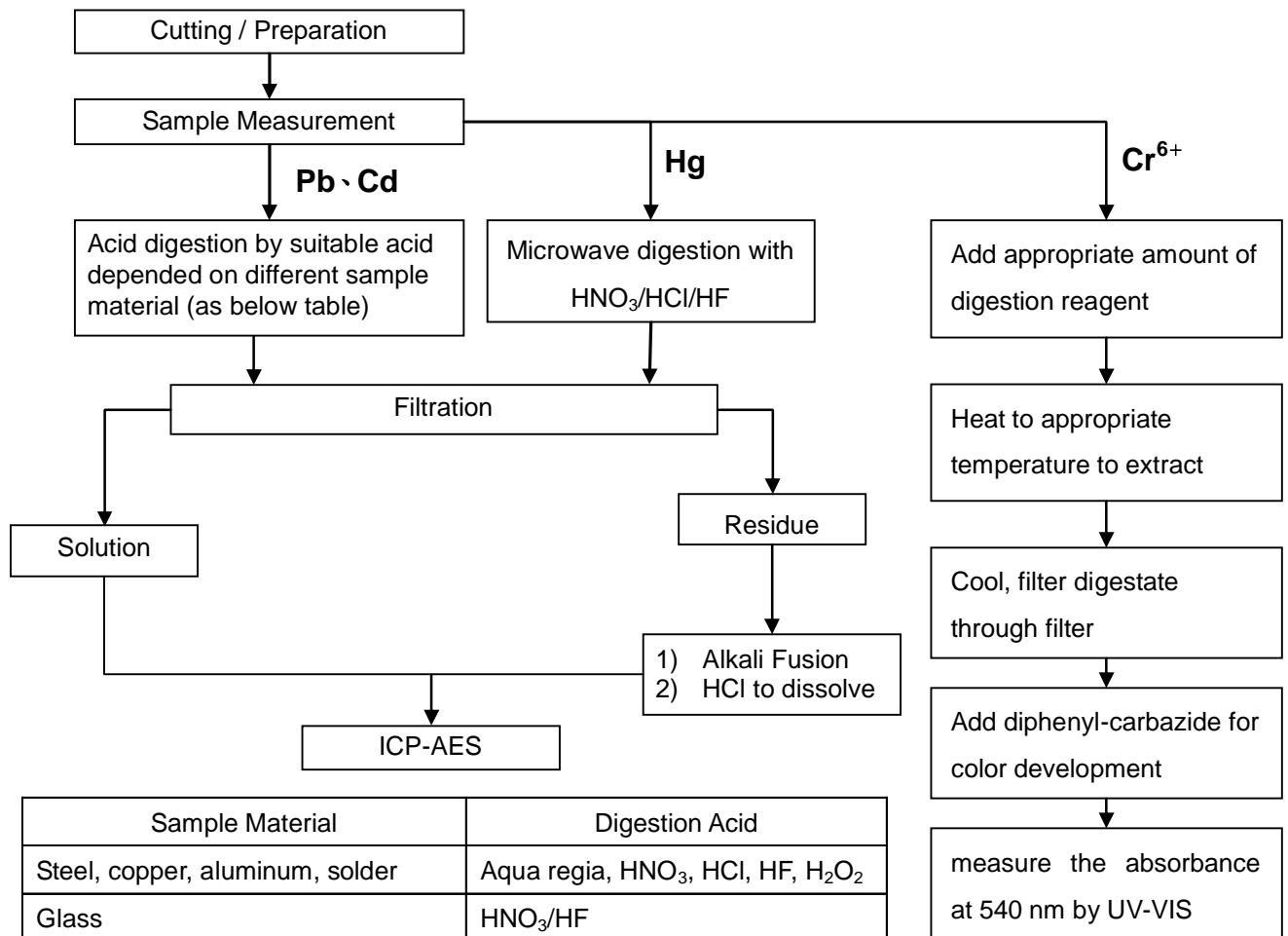
Page : 5 of 7

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN,
 TAIWAN



NO.2

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

Test Report

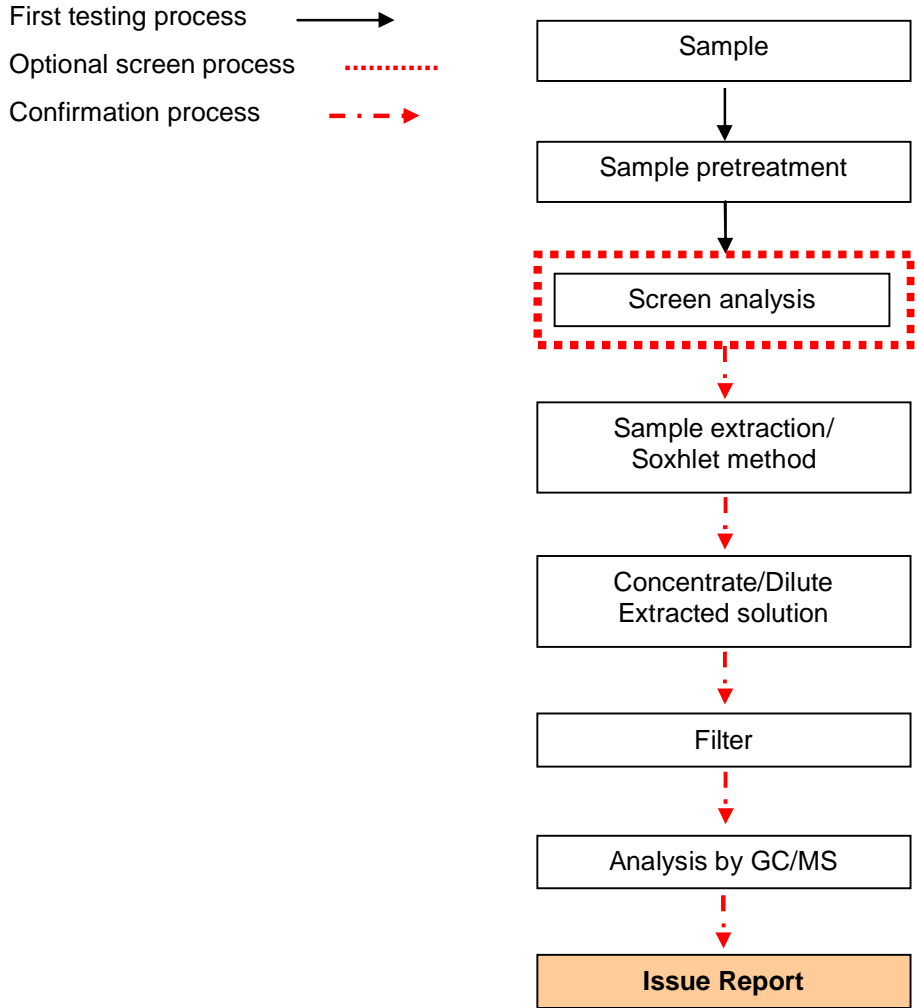
No. : CE/2008/19545A Date : 2008/02/20

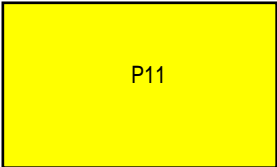
Page : 6 of 7

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN,
 TAIWAN



PBB/PBDE analytical FLOW CHART





P11

Test Report

No. : CE/2008/19545A Date : 2008/02/20

Page : 7 of 7

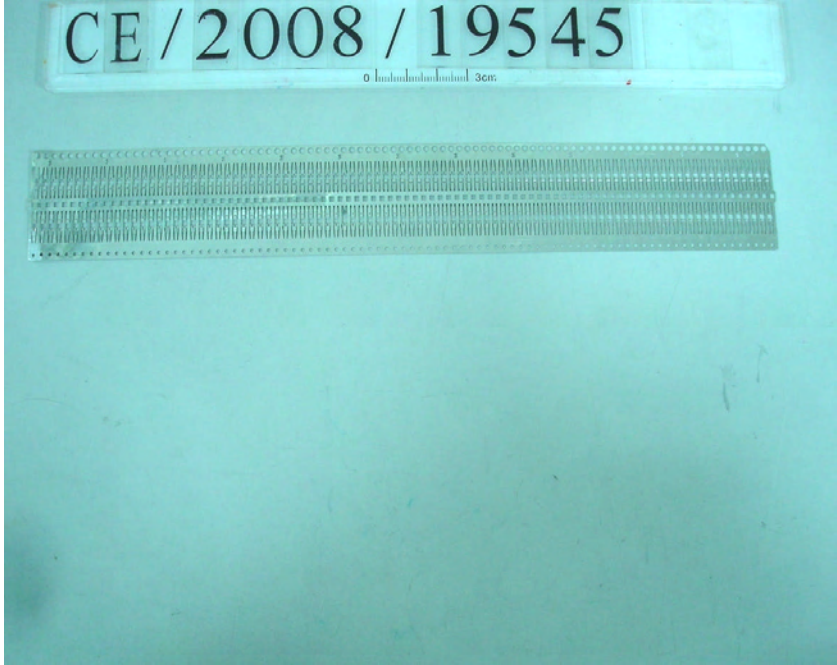
AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH
18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN,
TAIWAN



NO.1



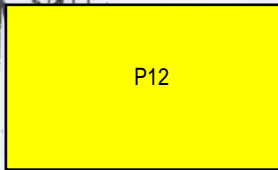
NO.2



** End of Report **

TO: 磁珠系列

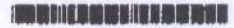
日期: 2008/03/12



Test Report

No. : CE/2008/34047 Date : 2008/03/19 Page : 1 of 5

MAX ECHO TECHNOLOGY CORP.
NO. 29, 38TH ROAD, TAICHUNG INDUSTRY PARK, TAICHUNG, TAIWAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : MULTILAYER FERRITE CHIP BEADS, HIGH CURRENT FERRITE CHIP BEADS, MULTILAYER FERRITE CHIP INDUCTORS, BEAD ARRAY, MULTILAYER FERRITE COMMON MODE CHOKE.

Style/Item No. : EBMS / ACMS / BCMS / ECMS / COMS / BCAS / EELS / EFLS A SERIES

Sample Receiving Date : 2008/03/12

Testing Period : 2008/03/12 TO 2008/03/19

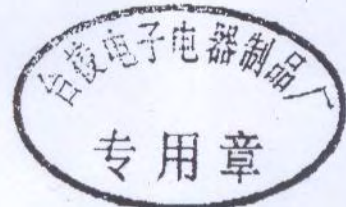
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) Determination of PBB and PBDE by GC/MS.

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

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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Test Report

No. : CE/2008/34047

Date : 2008/03/19

Page : 2 of 5

MAX ECHO TECHNOLOGY CORP.

NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK, TAICHUNG, TAIWAN

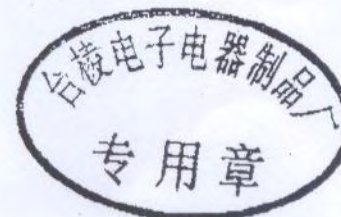
Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

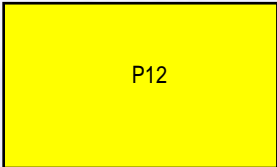
TEST PART DESCRIPTION:

NO.1 : MULTILAYER FERRITE CHIP BEADS, HIGH CURRENT FERRITE CHIP BEADS, MULTILAYER FERRITE CHIP INDUCTORS, BEAD ARRAY, MULTILAYER FERRITE COMMON MODE CHOKE.

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated



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Test Report

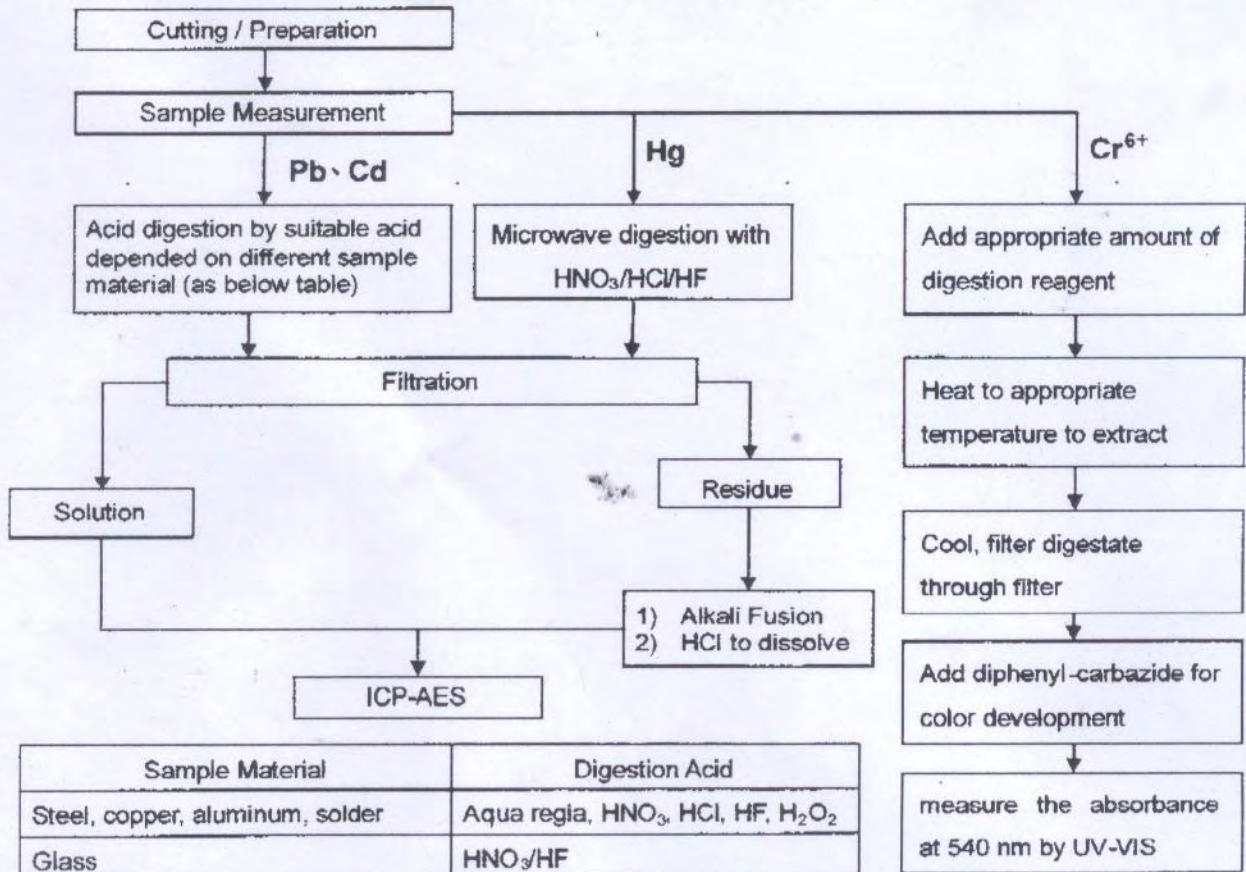
No. : CE/2008/34047 Date : 2008/03/19

Page : 3 of 5

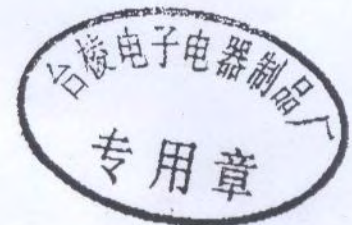
MAX ECHO TECHNOLOGY CORP.
NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK, TAICHUNG, TAIWAN



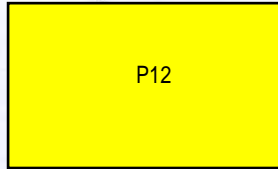
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion



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Test Report

No. : CE/2008/34047

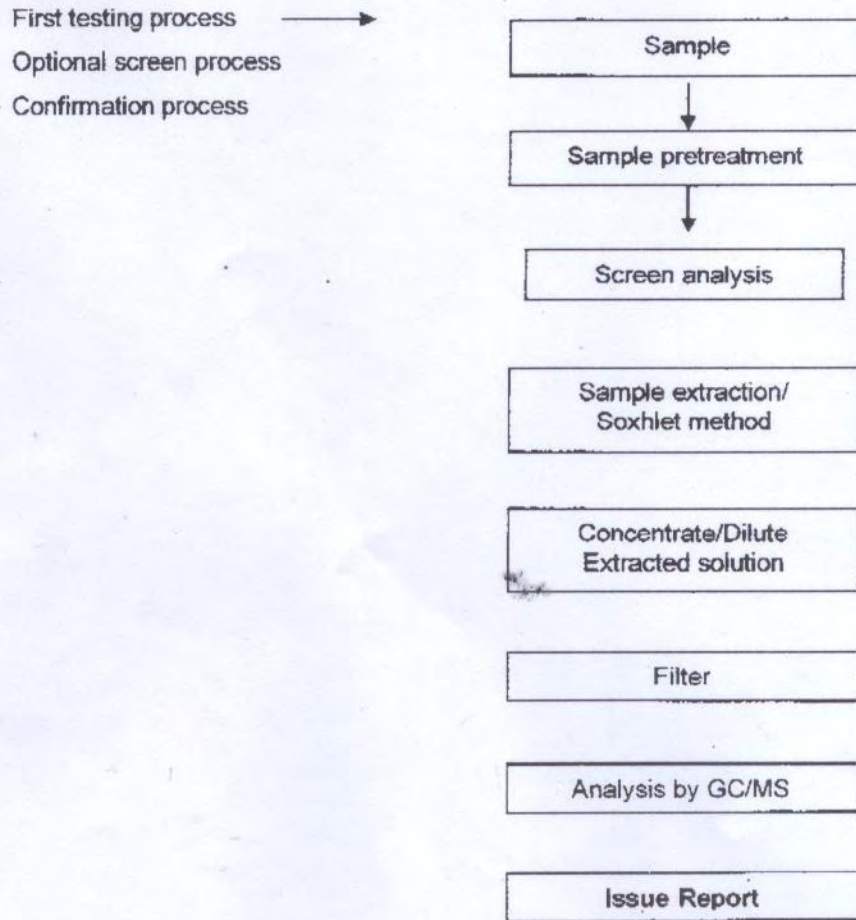
Date : 2008/03/19

Page : 4 of 5

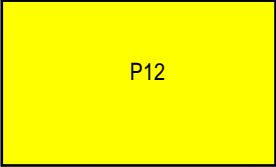
MAX ECHO TECHNOLOGY CORP.
NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK, TAICHUNG, TAIWAN



PBB/PBDE analytical FLOW CHART



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P12

Test Report

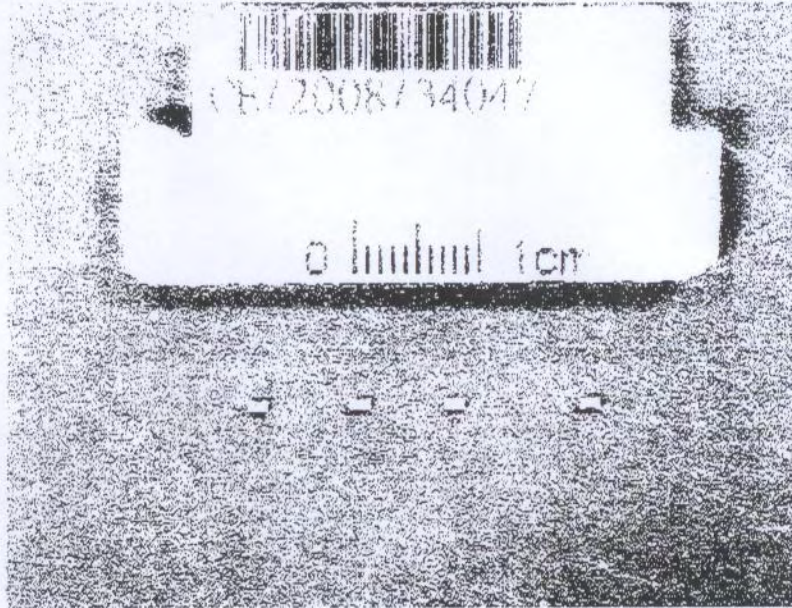
No. : CE/2008/34047

Date : 2008/03/19

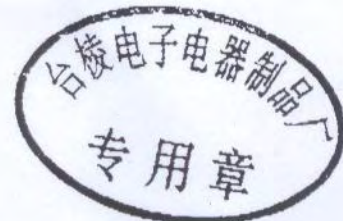
Page : 5 of 5

MAX ECHO TECHNOLOGY CORP.

NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK, TAICHUNG, TAIWAN



** End of Report **



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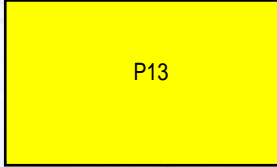
NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Taipei county, Taiwan.
t(886-2) 22993939 f(886-2) 2299-3237 www.sgs.com.tw

Handwritten signature/initials

FPCM :

FAX NO. :

2008.10.21 17:12 P1



SGS

测试报告

No. CANEC0800544801

日期: 2008年03月06日 第1页,共4页

深圳市伯俐达电子有限公司
深圳市福田区八卦四路412栋9楼

以下测试之样品是由申请者所提供及确认:

石英晶体谐振器 贴片

SGS工作编号	:	10865481 - SZ
样品接收日期	:	2008年02月28日
测试周期	:	2008年02月28日 - 2008年03月06日

测试要求	:	根据客户要求测试
测试方法	:	请参见下一页
测试结果	:	请参见下一页

通标标准技术服务有限公司
授权签名

Handwritten signature of Sunny

Huang Fang, Sunny
Sr. Engineer

备注: 根据客户申请, SGS出具了此中文报告, 英文版本可根据客户要求提供。(The Chinese text report is issued according to the applicant's request. The English version is available from SGS if further needed)

COPY

FROM :

FAX NO. :

2008.10.21 17:11 P2

P13

SGS**测试报告**

No. CANEC0800544501

日期: 2008年03月05日 第2页, 共4页

测试结果:

样品1 ID : CAN08-005445.001
 样品1描述 : 银色金属壳

重金属

测试项目	单位	测试方法 (参考)	测试结果	MDL
镉 (Cd)	毫克/千克	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
铅 (Pb)	毫克/千克	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
汞 (Hg)	毫克/千克	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
沸水萃取法测六价铬 (Cr VI)	-	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	Negative	◇

注释:

1. 毫克/千克 = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限
4. ◇ = 点测试:

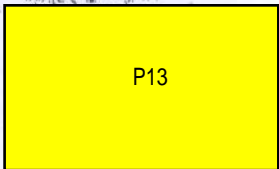
Negative = 未检测到六价铬, Positive = 检测到六价铬;
 (如果点测试结果为Negative或不能确认, 测试样品需进一步由沸水萃取法进行测试)。

沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价铬; 每50cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02mg/kg。

5. "-" = 未规定



P13

SGS

测试报告

No. CANEC0800544501

日期: 2008年03月05日 第3页,共4页

样品2 ID : CAN08-005445.002
样品2描述 : 黑色塑料

卤素 (氟, 氯, 溴, 碘)

测试项目	单位	测试方法 (参考)	测试结果	MDL
氟 (F)	毫克/千克	BS EN 14582:2007, IC	72	50
氯 (Cl)	毫克/千克	BS EN 14582:2007, IC	1556	50
溴 (Br)	毫克/千克	BS EN 14582:2007, IC	52	50
碘 (I)	毫克/千克	BS EN 14582:2007, IC	N.D.	50

注释:

1. 毫克/千克 = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

COPY



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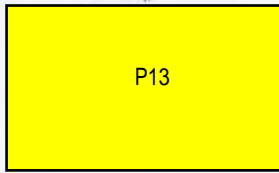
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Oct. 24 2008 17:56 P1

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FAX NO. :

2008.10.21 17:15 P3



P13

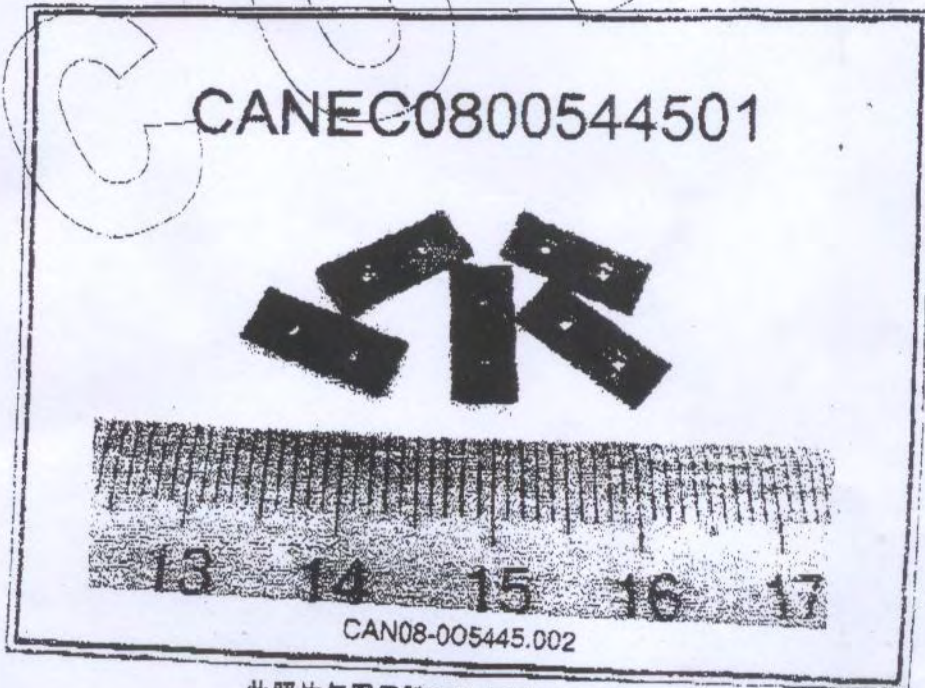
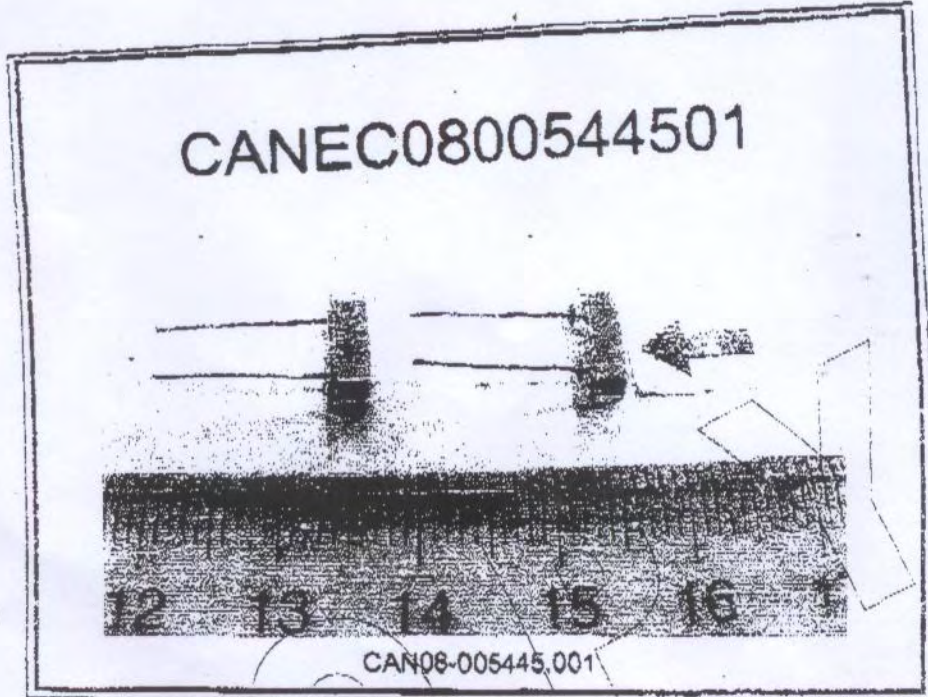
SGS

测试报告

No. CANEC0800544501

日期: 2008年03月05日 第4页, 共4页

样品照片:



此照片仅限于随SGS正本报告使用

*** 报告完 ***

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Test Report

No. : CE/2008/34047

Date : 2008/03/19

Page : 1 of 5

MAX ECHO TECHNOLOGY CORP.
NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK, TAIWAN

P14



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : MULTILAYER FERRITE CHIP BEADS, HIGH CURRENT FERRITE CHIP BEADS, MULTILAYER FERRITE CHIP INDUCTORS, BEAD ARRAY, MULTILAYER FERRITE COMMON MODE CHOKE.

Style/Item No. : EBMS / ACMS / BCMS / ECMS / COMS / BCAS / EELS / EFLS A SERIES

Sample Receiving Date : 2008/03/12

Testing Period : 2008/03/12 TO 2008/03/19

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) Determination of PBB and PBDE by GC/MS.

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

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

Test Report

No. : CE/2008/34047 Date : 2008/03/19

Page : 2 of 5

MAX ECHO TECHNOLOGY CORP.
NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK, TAICHUNG, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether	n.d.	5	
Decabromobiphenyl ether	n.d.	5	
Sum of PBDEs (Mono to Deca)	n.d.	-	

TEST PART DESCRIPTION:

NO.1 : MULTILAYER FERRITE CHIP BEADS, HIGH CURRENT FERRITE CHIP BEADS, MULTILAYER FERRITE CHIP INDUCTORS, BEAD ARRAY, MULTILAYER FERRITE COMMON MODE CHOKE.

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated

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Test Report

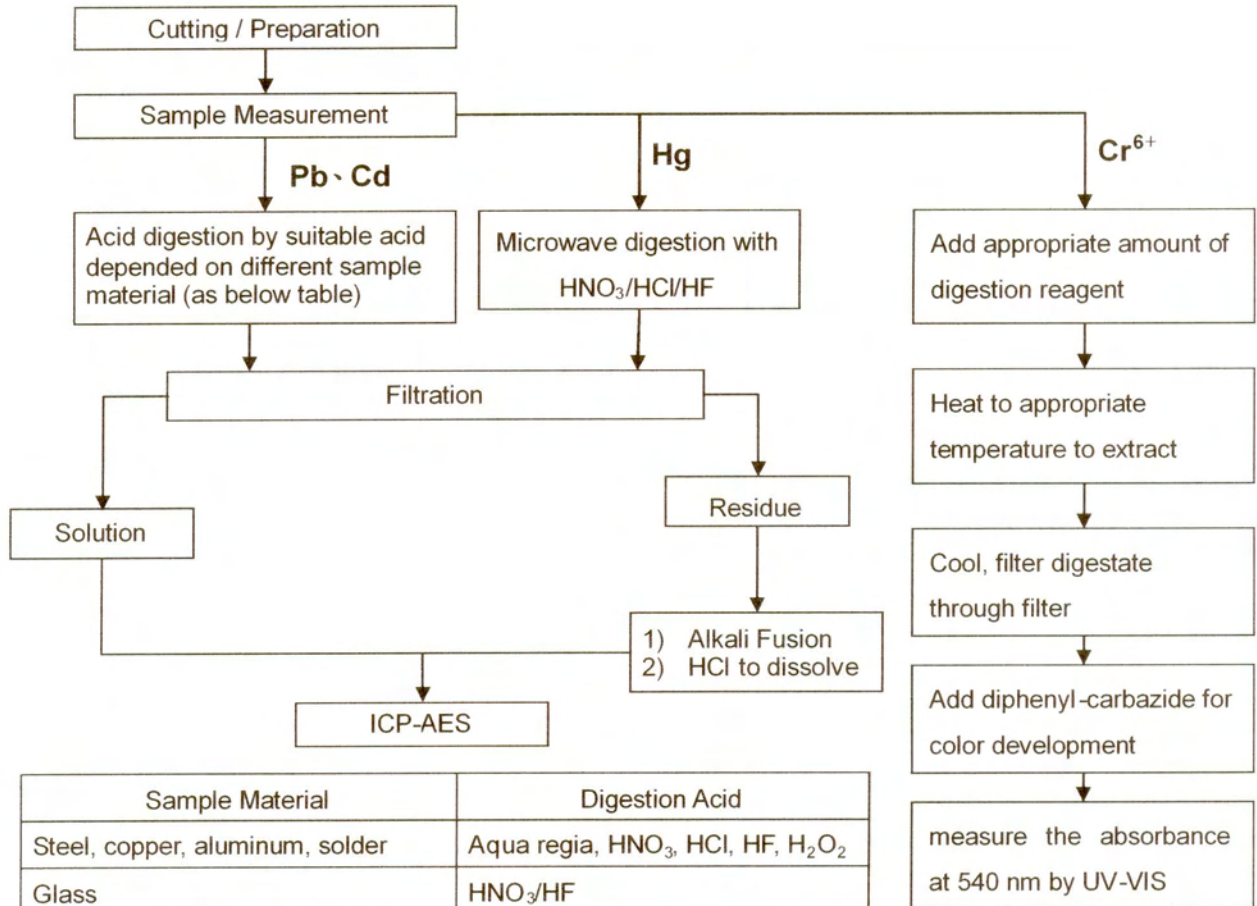
No. : CE/2008/34047 Date : 2008/03/19

Page : 3 of 5

MAX ECHO TECHNOLOGY CORP.
NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK, TAICHUNG, TAIWAN

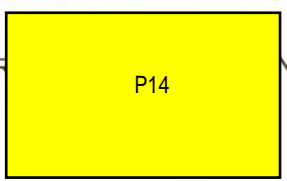


- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



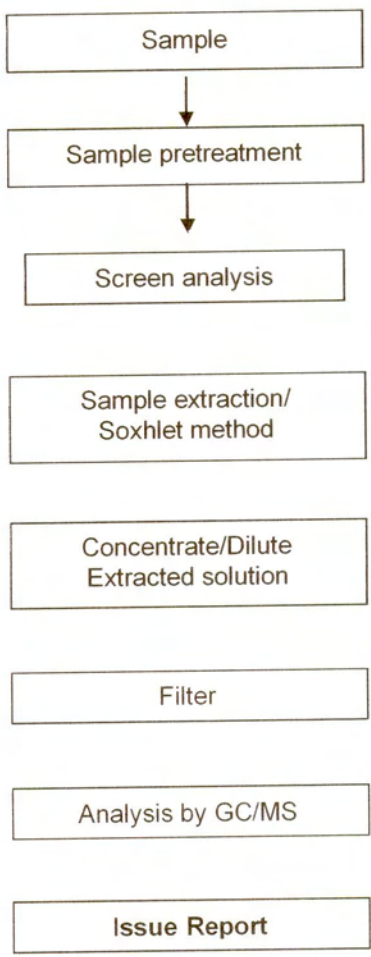
Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

MAX ECHO TECHNOLOGY CORP.
NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK



PBB/PBDE analytical FLOW CHART

First testing process →
Optional screen process
Confirmation process



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Test Report

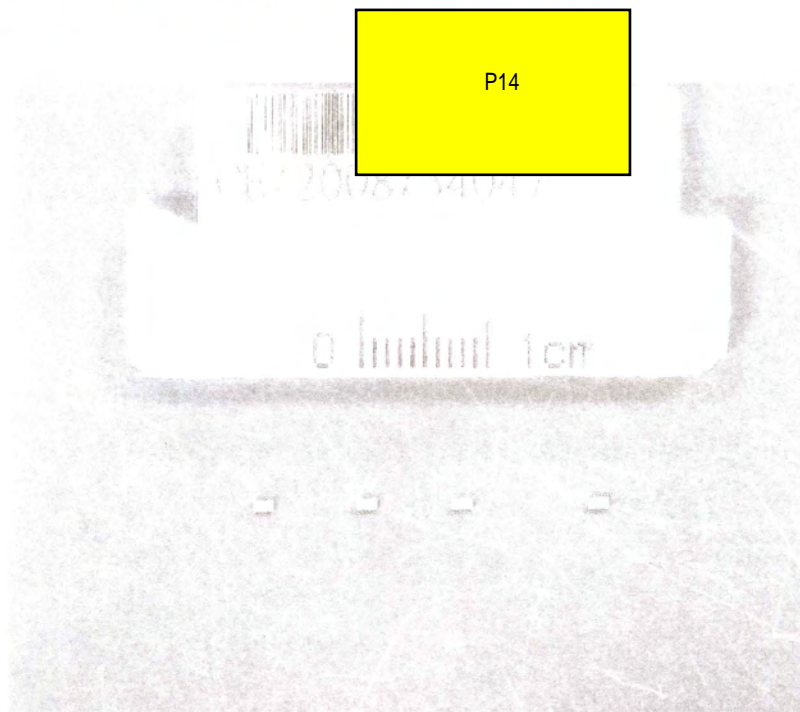
No. : CE/2008/34047

Date : 2008/03/19

Page : 5 of 5

MAX ECHO TECHNOLOGY CORP.

NO. 29, 36TH ROAD, TAICHUNG INDUSTRY PARK, TAICHUNG, TAIWAN



** End of Report **

3/24/08

SGS

P15

Test Report

No.: GZ0711179980A/CHEM

Date: APR 16, 2008

Page 1 of 6

BRIGHTTEK OPTOELECTRONICS CO., LTD
 BUILDING 7 ROW 5 2ND INDUSTRIAL AREA XINQIAO SHAJING BAO'AN DISTRICT SHENZHEN GUANGDONG
 CHINA

This report is to supersede test report GZ0711179980/CHEM.

The following sample(s) was/were submitted and identified on behalf of the applicant as Light Emitting Diode
 Client Reference : LAMP

SGS Ref No. : GZ10722160EC-2.1
 Buyer : HUIZHOU SAMSUNG
 Sample Receiving Date : NOV 28, 2007
 Testing Period : NOV 28, 2007 TO DEC 04, 2007

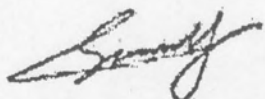
Test Requested : A: To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.
 B: To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : A&B: With reference to IEC 62321 Ed.1 111/54/CDV
 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
 (1) Determination of Cadmium by ICP, see flowchart.
 (2) Determination of Lead by ICP, see flowchart.
 (3) Determination of Mercury by ICP.
 (4) Determination of Hexavalent Chromium by Colorimetric Method.
 (5) Determination of PBBs and PBDEs by GC-MS.
 With reference to EPA 3060A: 1996 & EPA 7196A: 1992.
 (6) Determination of Hexavalent Chromium by UV-Vis Spectrometry.

Test Results : Please refer to next page.

Conclusion : B: When tested as specified, the results shown on the report do not exceed the limit in Operation Standard OQA-2049 of HUIZHOU SAMSUNG.

Signed for and on behalf of
 SGS-CSTC Ltd.



Huang Fang, Sunny
 Sr. Engineer



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Test Report

No.: GZ0711179980A/CHEM

Date: APR 16, 2008

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Test results by chemical method (Unit: mg/kg)

A:

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	6	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(6)	N.D.	2
Sum of PBBs		N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. "-" = Not regulated




Test Report

No.: GZ0711179980A/CHEM

Date: APR 16, 2008

Page 3 of 6

B:

Test Item(s):	Method (refer to)	No.2	MDL	Client's Limit
Cadmium(Cd)	(1)	N.D.	2	80
Lead (Pb)	(2)	26	2	800
Mercury (Hg)	(3)	N.D.	2	800
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	Negative	See Note 5	#

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with Operation Standard OQA-2049 of HUIZHOU SAMSUNG.

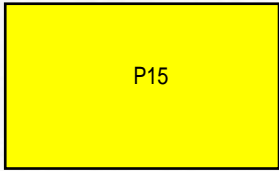
Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with Operation Standard OQA-2049 of HUIZHOU SAMSUNG.

Test Part Description:

No.1 Transparent body (mixed)

No.2 Silvery metal pin

Remark : As requested by client, the test of No.1 was conducted as whole / part sample, for the sample can't be disjointed.



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Test Report

No.: GZ0711179980A/CHEM

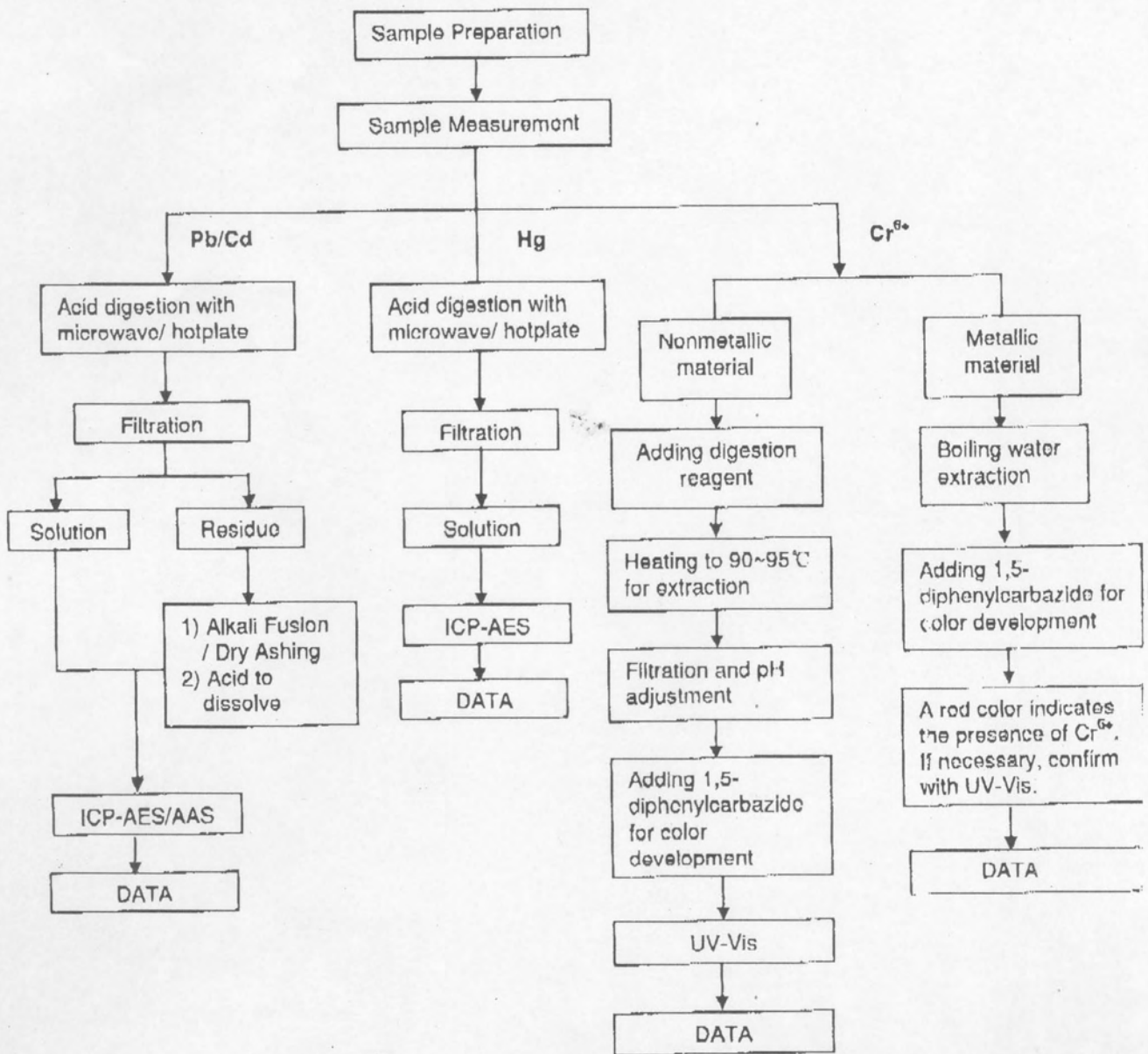
Date: APR 16, 2008

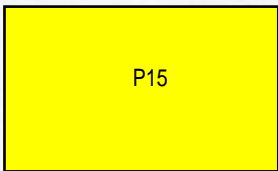
Page 4 of 6

ATTACHMENTS

Testing Flow Chart

- 1) Name of the person who made measurement: David Shen
- 2) Name of the person in charge of measurement: Emily Feng





Test Report

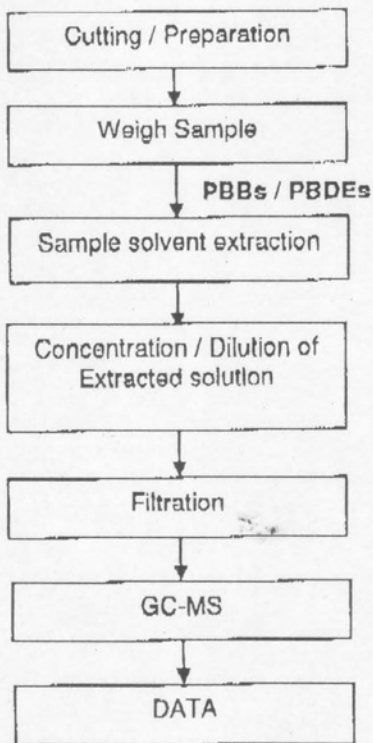
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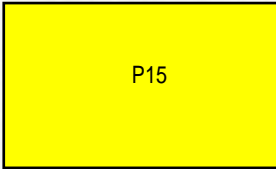
Date: APR 16, 2008

Page 5 of 6

Testing Flow Chart

- 1) Name of the person who made measurement: Fiona Xu
- 2) Name of the person in charge of measurement: Nina Wu





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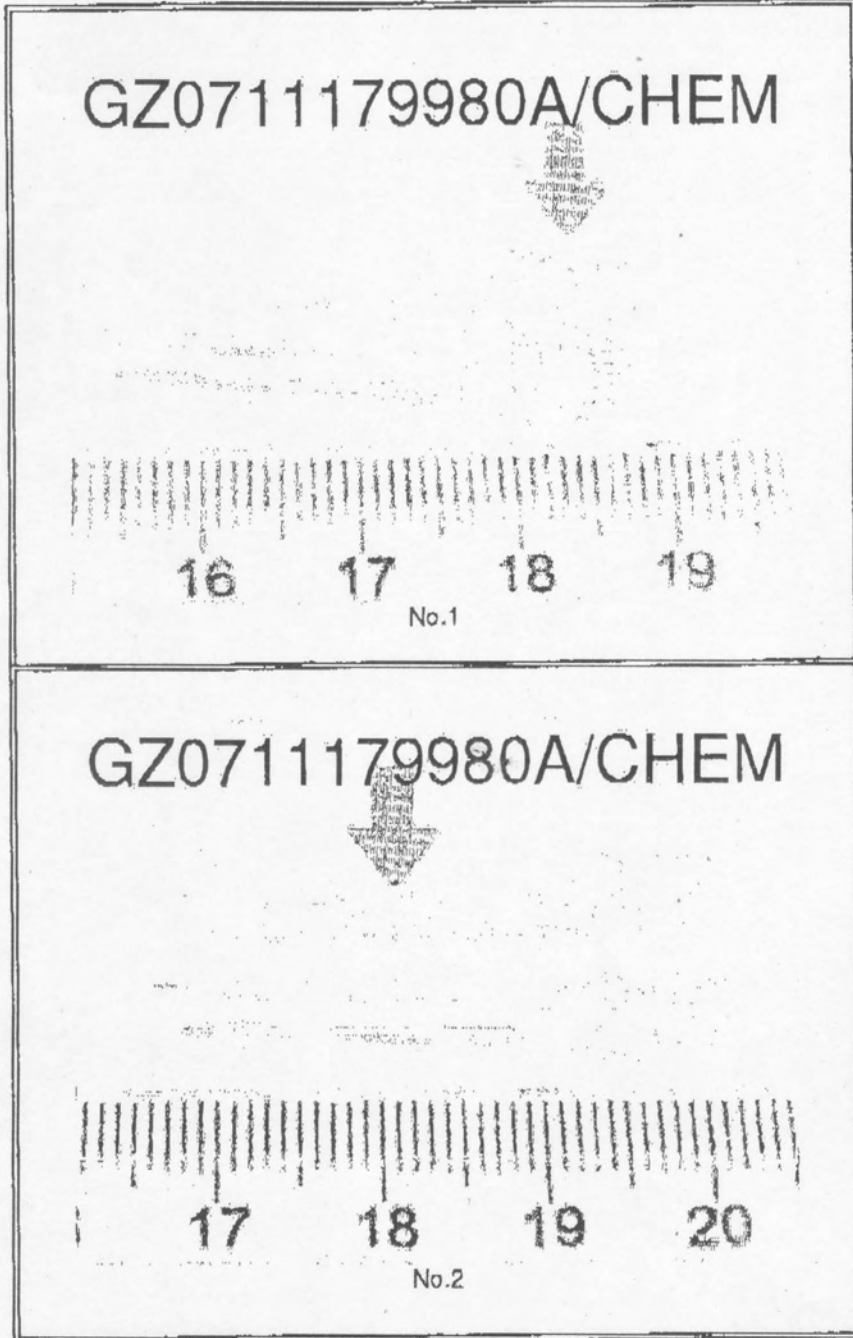
Test Report

No.: GZ0711179980A/CHEM

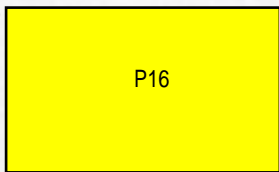
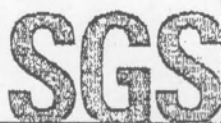
Date: APR 16, 2008

Pago 6 of 6

Sample photo :



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Test Report

No. CANEC0802822801

Date: 07 Jun 2008

Page 2 of 6

Test Results:

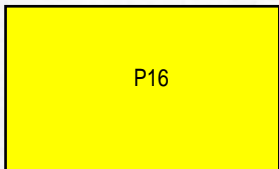
ID for specimen 1 : CAN08-028228.001
 Description for specimen 1 : "SMD LED"(mixed)

RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Sum of PBDEs(Mono to Nona) (Note 4)	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Sum of PBDEs(Mono to Deca)	mg/kg	-	N.D.	-	

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Test Report

No. CANEC0802822801

Date: 07 Jun 2008

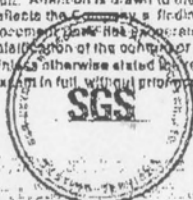
Page 3 of 6

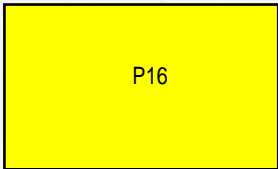
Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- 5. "-" = Not regulated

Remark : As requested by client, the testing was conducted as whole / part sample, for the sample can't be disjointed.

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Test Report

No. CANEC0802822801

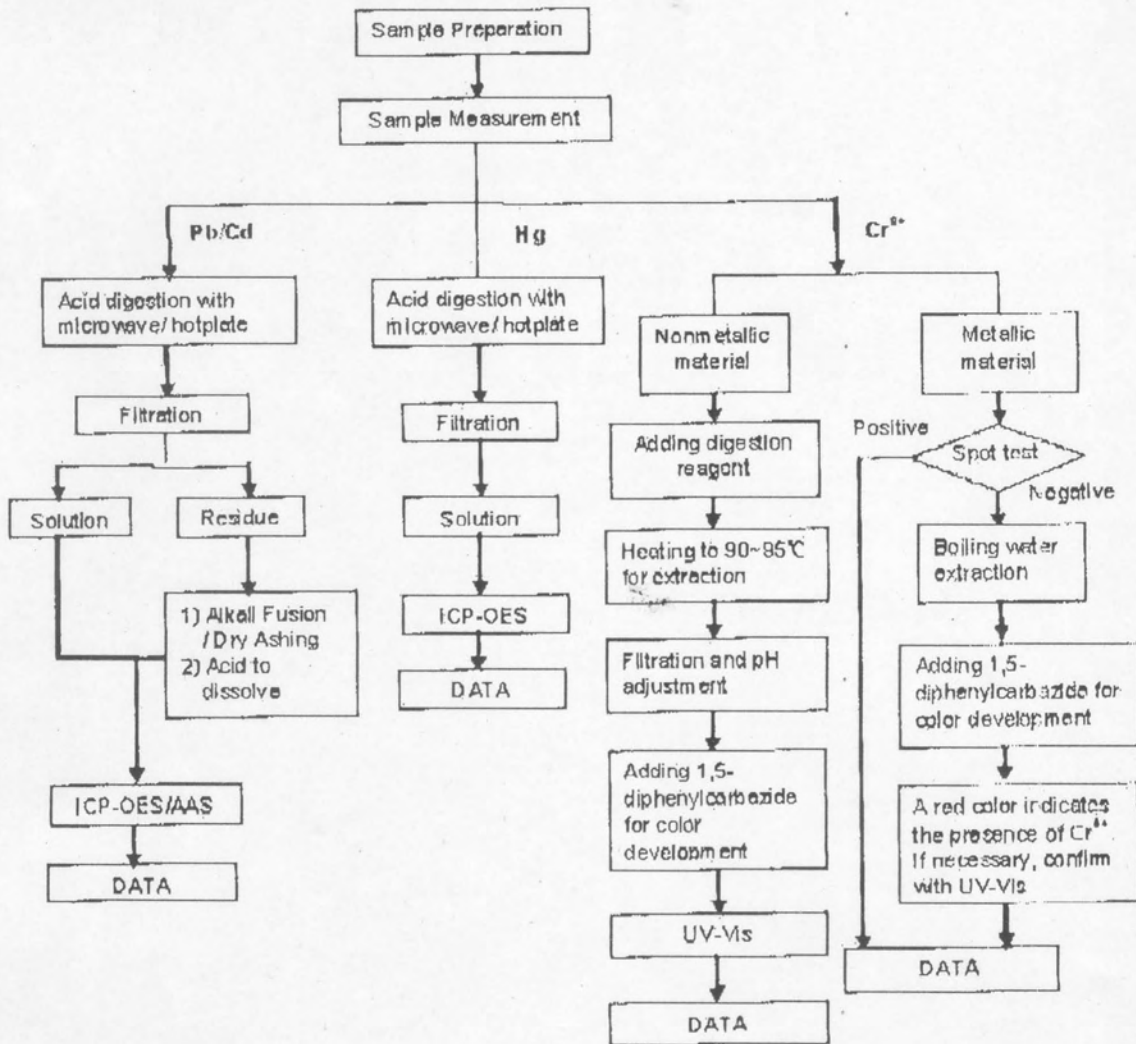
Date: 07 Jun 2008

Page 4 of 6

ATTACHMENTS

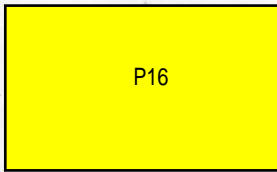
Testing Flow Chart

- 1) Name of the person who made measurement: Bowen Chen
- 2) Name of the person in charge of measurement: Adams Yu



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Test Report

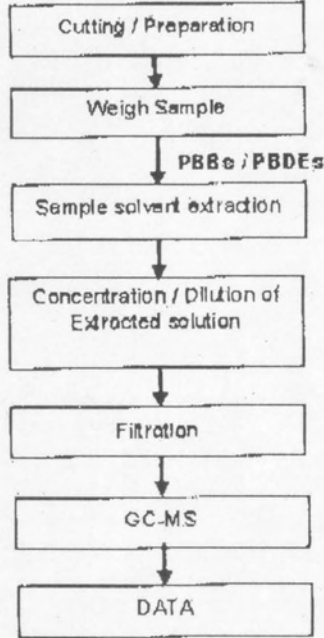
No. CANEC0802822801

Date: 07 Jun 2008

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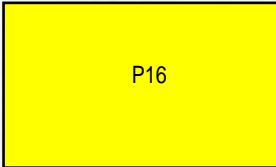
Testing Flow Chart

- 1) Name of the person who made measurement: Lina Tang
- 2) Name of the person in charge of measurement: Nina Wu



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Test Report

No. CANEC0802822801

Date: 07 Jun 2008

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Sample photo:



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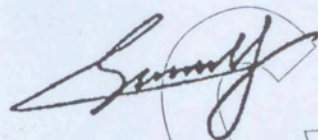


DONGGUAN HUAXING CIRCUIT BOARD FACTORY
XIACAO INDUSTRIAL DISTRICT .WANGNIUDUN TOWN.DONGGUAN.GUANGDONG
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :
FR4 double-face gush pure stannum

SGS Job No. : 10908189 - SZ
SGS Internal Reference No. : 20.1
Date of Sample Received : 19 Mar 2008
Testing Period : 19 Mar 2008 - 22 Mar 2008
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.

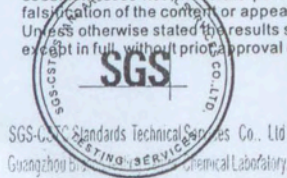


Huang Fang, Sunny
Sr. Engineer

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Test Report

No. CANEC0801059201

Date: 24 Mar 2008

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Test Results:

ID for specimen 1 : CAN08-010592.001
 Description for specimen 1 : Green "PCB" (mixed)

RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	15	2	1000
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Sum of PBDEs(Mono to Nona) (Note 4)	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Sum of PBDEs(Mono to Deca)	mg/kg	-	N.D.	-	-



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Test Report

No. CANEC0801059201

Date: 24 Mar 2008

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Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
5. "-" = Not regulated

Remark: As requested by client, the test was conducted as whole / part sample.

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

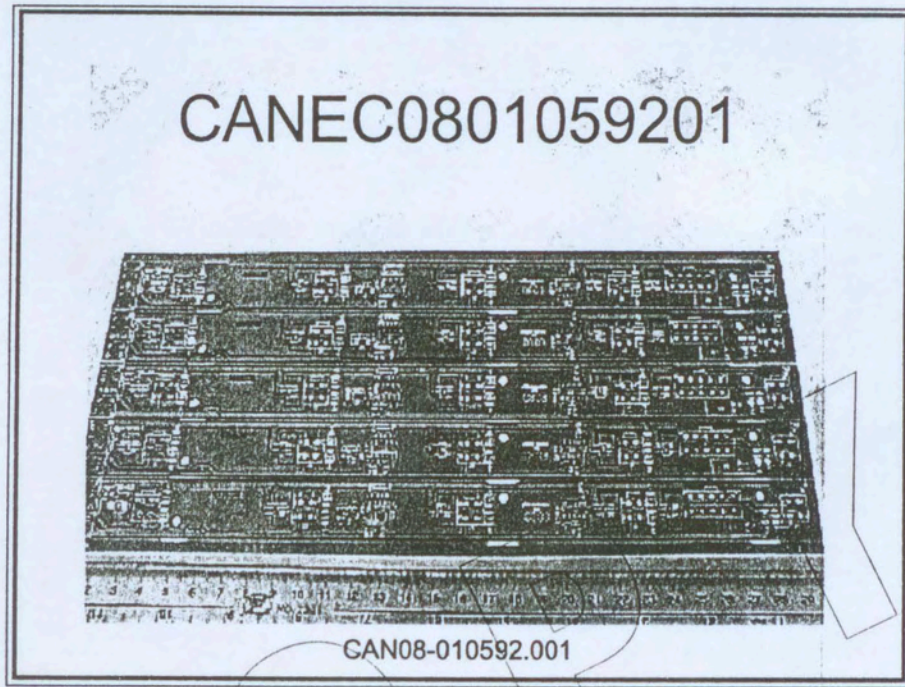
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t (86-20) 82155555

f (86-20) 82075125
f (86-20) 82075125

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GZCM1970874

Sample photo:



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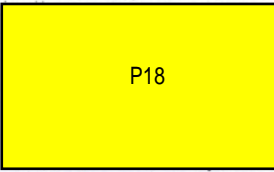
*** End of Report ***

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Handwritten signature/initials at top left.



P18

Handwritten text 'EVA' at top right.

SGS

Test Report

No. CANEC0700699901

Date: 14 Nov 2007

Page 1 of 3

SHENZHEN CITY BIAN GUANLAN HOI TAI MANUFACTORY
SHANGWEI VILLAGE ZHANG KENG JING, GUANLAN TOWN, SHENZHEN CITY
CHINA

The following sample was/ were submitted and identified on behalf of the clients as :
EVA

SGS Job No. : 10680302 - GZ
SGS Internal Reference No. : 2.1
Date of Sample Received : 12 Nov 2007
Testing Period : 12 Nov 2007 - 14 Nov 2007

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ex. 1 111/54/00V Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
(1) Determination of Cadmium by ICP.
Determination of Lead by ICP.
Determination of Mercury by ICP.
(2) Determination of Hexavalent Chromium by Colorimetric Method.
(3) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Bunny
Sr. Engineer



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SGS-CSTC (China) Technical Testing Co., Ltd.
Singapore Branch

SGS-CSTC (China) Technical Testing Co., Ltd.
Singapore Branch

(86-20) 82108888
(86-20) 82155555

(86-20) 82675228
(86-20) 82673122

GZCM 1658421

www.cd.sgs.com
sgschina@sgs.com



P1 2008.09.19 16:27

FAX NO. : 076922673099

FREETECH

P1 2008.09.19 16:46

FAX NO. : 13509215469

DM

P18

SGS

Test Report

No. CANEC070088801

Date: 14 Nov 2007

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

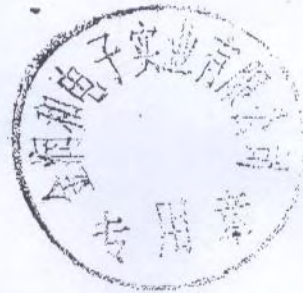
Test Item(s)	Method (Refer to)	No.	MDL	Reg. Limit
Cadmium (Cd)	(1)	N.D.	2	100
Lead (Pb)	(1)	8	2	1000
Mercury (Hg)	(1)	N.D.	2	1000
Hexavalent Chromium (Cr(VI)) by alkaline extraction	(2)	N.D.	2	1000
Sum of PBBs	(3)	N.D.	-	1000
Monobromobiphenyl	(3)	N.D.	5	
Dibromobiphenyl	(3)	N.D.	5	
Tri bromobiphenyl	(3)	N.D.	5	
Tetrabromobiphenyl	(3)	N.D.	5	
Pentabromobiphenyl	(3)	N.D.	5	
Hexabromobiphenyl	(3)	N.D.	5	
Heptabromobiphenyl	(3)	N.D.	5	
Octabromobiphenyl	(3)	N.D.	5	
Nonabromobiphenyl	(3)	N.D.	5	
Decabromobiphenyl	(3)	N.D.	5	
Sum of PBDEs (Mono to Deca) (Note 4)	(3)	N.D.	-	1000
Monobromodiphenyl ether	(3)	N.D.	5	
Dibromodiphenyl ether	(3)	N.D.	5	
Tri bromodiphenyl ether	(3)	N.D.	5	
Tetrabromodiphenyl ether	(3)	N.D.	5	
Pentabromodiphenyl ether	(3)	N.D.	5	
Hexabromodiphenyl ether	(3)	N.D.	5	
Heptabromodiphenyl ether	(3)	N.D.	5	
Octabromodiphenyl ether	(3)	N.D.	5	
Nonabromodiphenyl ether	(3)	N.D.	5	
Decabromodiphenyl ether	(3)	N.D.	5	
Sum of PBDEs (Mono to Deca)	(3)	N.D.	-	

Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. Sum of Mono to Deca PBDEs according to 2005/717/EC DecaBDE is exempt.
5. "-" = Not regulated

Test Part Description

No. 1 Black sheet



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 中国 - 检测技术服务有限公司

Product: 2007/11/14
 2007/11/14
 2007/11/14

GZCM 1058422
 2007/11/14
 2007/11/14

2008.09.19 16:28 P2

FAX NO.: 0769222673099

M: FREETECH

2008.09.19 16:47 P2

FAX NO.: 13509215469

FROM:

P18

SGS

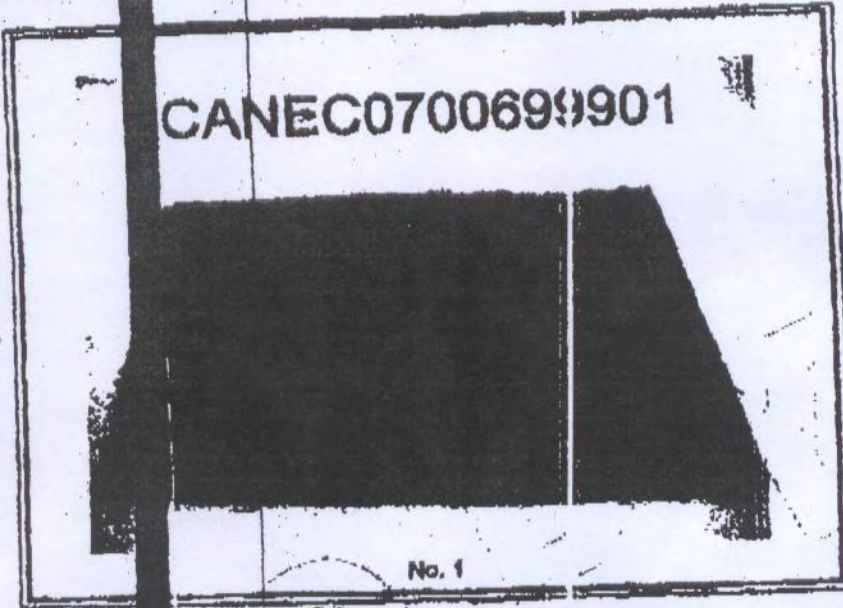
Test Report

Sample photo:

No. CANEC0700699901

Date: 14 Nov 2007

Page 3 of 3



SGS authenticates the photo on original report only

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SGS SCS (Shanghai) Testing Co., Ltd.
 Company Branch: 860000 Shanghai Laboratory

SGS SCS (Shanghai) Testing Co., Ltd.
 中国上海 浦东新区川沙路2100号 邮编: 201201

TEL: (86-21) 51210000
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www.sgs.com
 sgs.china@sgs.com

GZCM 1658423

Member of the R3R Group (SGS SA)

2008.09.19 16:28 P3

FAX NO.: 076922673099

2008.09.19 16:47 P3

FAX NO.: 13509215469

FROM: M: FREETECH

Test Report

No. :KA/2008/10040 Date: 2008/01/09 Page: 1 of 5




GRAND PACIFIC PETROCHEMICAL CORPORATION
10 FL,NO.1 SEC.4 NAN-JING E.ROAD TAIPEI,10595 TAIWAN R.O.C.

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : ABS
Style/Item No. : D-180
Color : IVORY
Sample Receiving Date : 2008/01/02
Testing Period : 2008/01/02 TO 2008/1/9

- =====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method : (1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
 (2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
 (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
 (4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV/Vis Spectrometry.
 (5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.
Test Result(s) : Please refer to next page(s).


Katherine Ho / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

Test Report

No. :KA/2008/10040

Date: 2008/01/09 Page: 2 of 5



GRAND PACIFIC PETROCHEMICAL CORPORATION
10 FL,NO.1 SEC.4 NAN-JING E.ROAD TAIPEI,10595 TAIWAN R.O.C.

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI)	(4)	n.d.	2
Sum of PBBs		n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona)(Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : ABS

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TW6153623

Test Report

No. :KA/2008/10040

Date: 2008/01/09 Page: 3 of 5



GRAND PACIFIC PETROCHEMICAL CORPORATION
10 FL,NO.1 SEC.4 NAN-JING E.ROAD TAIPEI,10595 TAIWAN R.O.C.

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. " - " = Not Regulated

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TW 6153622

Test Report

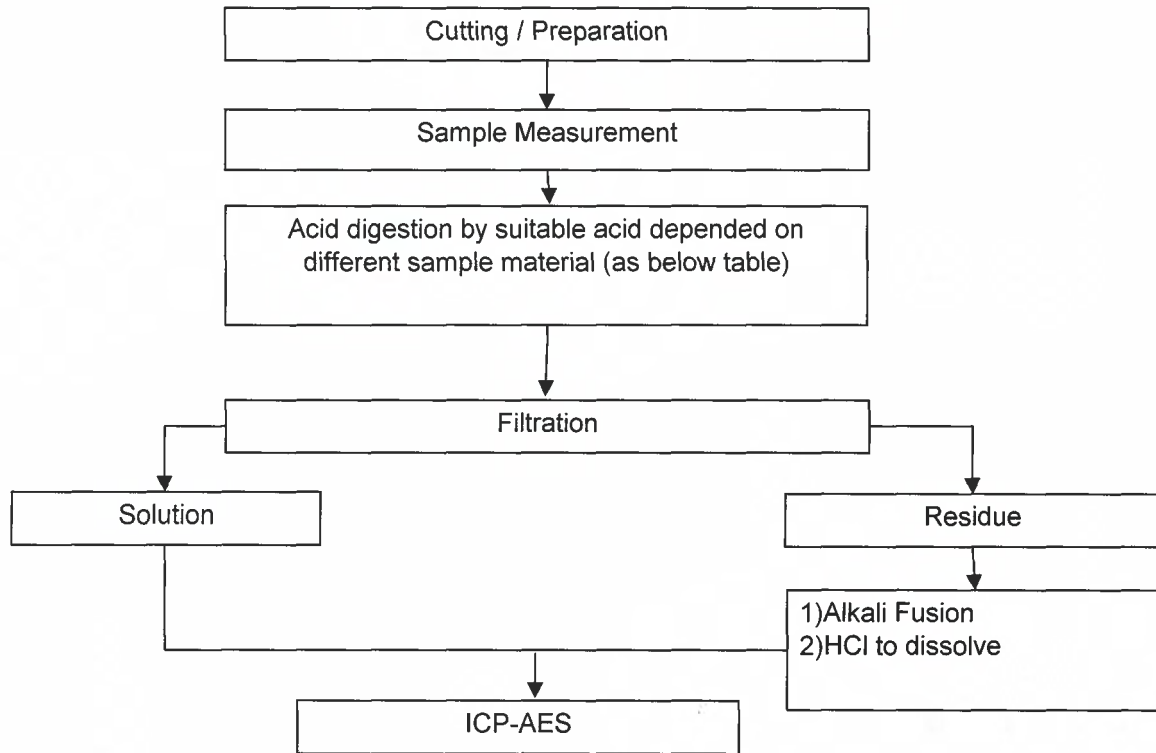
No. :KA/2008/10040 Date: 2008/01/09 Page: 4 of 5



GRAND PACIFIC PETROCHEMICAL CORPORATION
10 FL,NO.1 SEC.4 NAN-JING E.ROAD TAIPEI,10595 TAIWAN R.O.C.

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: George Huang

Method 1: Flow Chart of Digestion for Cd 、Pb analysis



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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TW 6153621

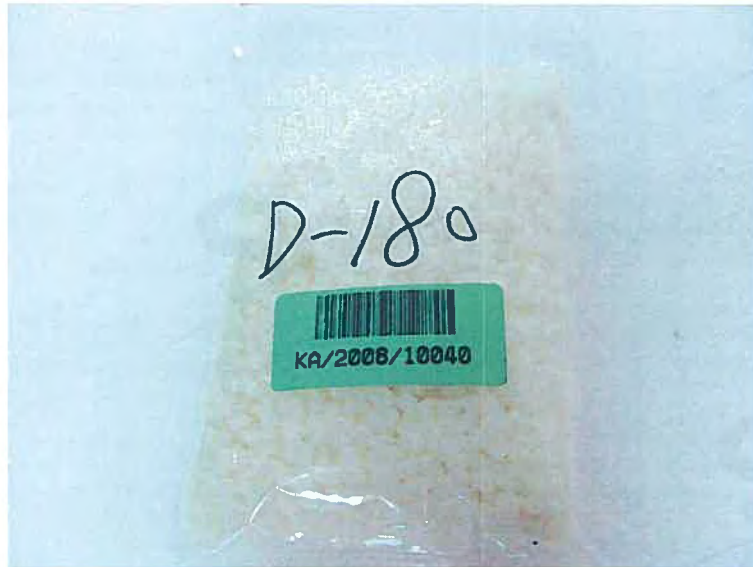
Test Report

No. :KA/2008/10040

Date: 2008/01/09 Page: 5 of 5



GRAND PACIFIC PETROCHEMICAL CORPORATION
10 FL,NO.1 SEC.4 NAN-JING E.ROAD TAIPEI,10595 TAIWAN R.O.C.



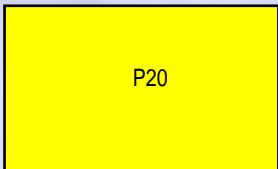
** End of Report **

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TW6153620

Param

SGS



P20



Test Report

No.: KA2008/10058 Date: 2008/01/09 Page: 1 of 3

KUNSHAN CITY EVERCHEM PLASTIC LTD
UNIT 20, KINGQIAO VILLA, SHENGLI VILLAGE, BEIMEN STREET YUSHAN TOWN, KUNSHAN CITY JIANGSU

The following sample(s) was/were submitted and identified by/on behalf of the client as :

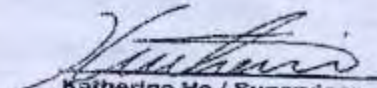
Sample Description	:	POLY METHYL METHACRYLATE
Style/Form No.	:	ACRYPET, MF001
Color	:	NATURE
Sample Receiving Date	:	2008/01/02
Testing Period	:	2008/01/02 TO 2008/01/03

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method :

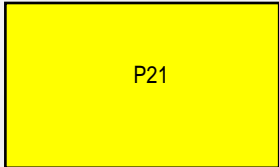
- (1) With reference to US EPA 3052 for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.
- (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) With reference to IEC 62321, Ed 1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

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


Katherine Ho / Supervisor
 Signed for and on behalf of
 SGS Taiwan Limited



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Test Report

P21

FORMOSA PLASTICS CORPORATION
4F, 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN

Report No. : CD/2008/10512
Date : 2008/01/06
Page : 1 of 3

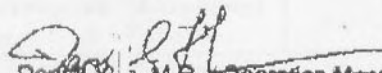
FORMOSA PLASTICS CORPORATION

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	ACETAL CO-POLYMER	✓ POM
Style/Item No	:	FORMOCON FM090	✓
Sample Received	:	2008/01/06	
Testing Period	:	2008/01/06 TO 2008/01/12	

Conclusion

: The test results of Pb, Cd, Hg, Cr+6, PBB and PBDE for the submitted sample comply with the requirements of RoHS (2002/95/EC).


 Daniel Yeh, M.R., Operation Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.



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NO. 136-1, Wu Kung Road, Wu Ku Industrial Zone, Taipei County, Taiwan
(886-2) 2299-3939 (886-2) 2299-3237 www.sgs.com.tw

Test Report

FORMOSA PLASTICS CORPORATION
4F, 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN

Report No. : CD/2008/10512
Date : 2008/01/06
Page : 2 of 3

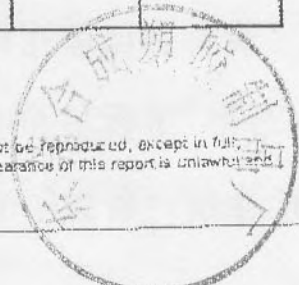


Test Result ()

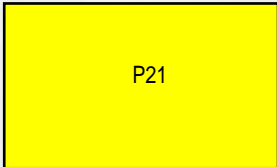
PART NAME NO.1 : WHITE PLASTIC PELLETS

PASS

Test Item (s):	Unit	Method	MDL	Result	Limit of ROHS
				No. 1	
PBBs (Polybrominated biphenyls)	---	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	-
Dibromobiphenyl	%		0.0005	N.D.	-
Tribromobiphenyl	%		0.0005	N.D.	-
Tetrabromobiphenyl	%		0.0005	N.D.	-
Pentabromobiphenyl	%		0.0005	N.D.	-
Hexabromobiphenyl	%		0.0005	N.D.	-
Heptabromobiphenyl	%		0.0005	N.D.	-
Octabromobiphenyl	%		0.0005	N.D.	-
Nonabromobiphenyl	%		0.0005	N.D.	-
Decabromobiphenyl	%		0.0005	N.D.	-
Total PBBs (Polybrominated biphenyls)/Sum of above	%			N.D.	0.1
PBDEs (PBDEs) (Polybrominated biphenyl ethers)	---	---	---	---	---
Monobromobiphenyl ether	%	With reference to USEPA3540C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	-
Dibromobiphenyl ether	%		0.0005	N.D.	-
Tribromobiphenyl ether	%		0.0005	N.D.	-
Tetrabromobiphenyl ether	%		0.0005	N.D.	-
Pentabromobiphenyl ether	%		0.0005	N.D.	-
Hexabromobiphenyl ether	%		0.0005	N.D.	-
Heptabromobiphenyl ether	%		0.0005	N.D.	-
Octabromobiphenyl ether	%		0.0005	N.D.	-
Nonabromobiphenyl ether	%		0.0005	N.D.	-
Decabromobiphenyl ether	%		0.0005	N.D.	-
Total PBDEs (PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%			N.D.	-
Total of Mono to Nonabrominated biphenyl ether. (Note 1)	%			N.D.	0.1



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NO. 138-1, Wu-Kung Road, Wuku Industrial Zone, Taipei County, Taiwan
(886-2) 2783-3333 (886-2) 2789-3237 www.fpc.com.tw



Test Report

FORMOSA PLASTICS CORPORATION
4F, 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN

Report No. : CD/2008/10512
Date : 2008/01/06
Page : 3 of 3



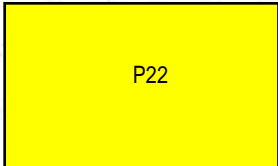
PASS

Test Item (s):	Unit	Method	MDL	Result	Limit of ROHS
				No. 1	
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	1000

- NOTE: (1) N.D. = Not Detected (<MDL)
 (2) ppm = mg/kg
 (3) MDL = Method Detection Limit
 (4) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
 (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=FBDOs=PBBOs.
 (6) " - " = Not Regulation
 (7) " - " = Not Applicable



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 372, Zhongxing Road, Taipei, Taiwan
 10, 13th-1, Wu Kong Road, Wuku Industrial Zone, Taipei county, Taiwan
 1686-2, 27843339 / 288-2) 2289-3237 www.sgs.com.tw



P22

XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER: SZHH00303727

APPLICANT: 揭阳市东山区磐东永胜电声厂
揭阳市东山区磐东镇溪乾工业区

DATE: Oct 06, 2008

ATTN: 卓淑贤小姐

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE 扬声器.

REFERENCE NO. : YF100-004D.

FACTORY : 香港通贸电子有限公司 (TOMOE), 香港协成电子有限公司, 香港科源电子有限公司, 大宇香港有限公司, 东莞合广有限公司, 日勤电子(惠州)有限公司, 傲特威电子科技(深圳)有限公司.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

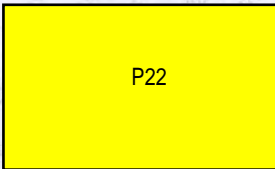
CONCLUSION:

TESTED SAMPLES	STANDARD	RESULT
SCREENING COMPONENTS	SCREENING BY XRF SPECTROSCOPY	PASS
OF SUBMITTED SAMPLE	AND CHEMICAL CONFIRMATION TEST	
	FOR RoHS DIRECTIVE (2002/95/EC)	

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
SHENZHEN LTD



BEN N.L. LIN
GENERAL MANAGER



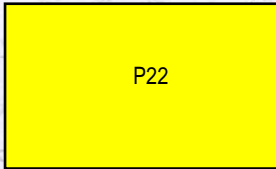
XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER: SZHH00303727

TESTS CONDUCTED

DETERMINATION OF LEVELS OF REGULATED SUBSTANCES IN ELECTROTECHNICAL PRODUCTS, ELEMENTS OF CADMIUM (Cd), LEAD (Pb), MERCURY (Hg), CHROMIUM (Cr) AND BROMINE (Br) CONTENT WERE MEASURED BY XRF SPECTROSCOPY AND CHEMICAL CONFIRMATION TEST FOR ROHS RESTRICTED SUBSTANCES.

(A) RESULTS :

SCREENED COMPONENTS	XRF RESULTS		CHEMICAL CONFIRMATION RESULT
1.	Cd	ND	Cr ⁶⁺ : ND(<1ppm)
	Pb	ND	
	Hg	ND	
	Cr	INCONCLUSIVE	
	Br	ND	
2.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	DETECTED	
	Br	ND	
3.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
4.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
5.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	DETECTED	



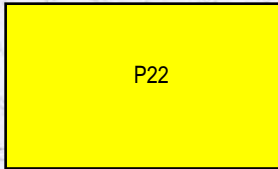
P22

XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT

NUMBER: SZHH00303727

TESTS CONDUCTED

SCREENED COMPONENTS	XRF RESULTS		CHEMICAL CONFIRMATION RESULT
6.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
7.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
8.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
9.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
10.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
11.	Cd	ND	Cr ⁶⁺ : NEGATIVE (<0.02mg/kg WITH 50cm ²)
	Pb	ND	
	Hg	ND	
	Cr	INCONCLUSIVE	
	Br	NA	

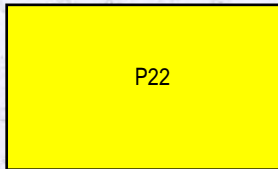


XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER: SZHH00303727

TESTS CONDUCTED

SCREENED COMPONENTS	XRF RESULTS		CHEMICAL CONFIRMATION RESULT
12.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
13.	NOT TESTED		Cd: ND (<2ppm) Pb: ND (<2ppm) Hg: ND (<2ppm) Cr ⁶⁺ : NEGATIVE (<0.02mg/kg WITH 50cm ²)
14.	Cd	ND	NOT TESTED
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NA	
15.	Cd	ND	Cr ⁶⁺ : NEGATIVE (<0.02mg/kg WITH 50cm ²)
	Pb	ND	
	Hg	ND	
	Cr	INCONCLUSIVE	
	Br	NA	

REMARK :
 DETECTED = BELOW THE LOWER SCREENING LIMIT OF TABLE (B) AND PASS.
 ND = NOT DETECTED
 NA = NOT APPLICABLE
 ppm = PARTS PER MILLION = mg/kg
 mg/kg WITH 50cm² = MILLIGRAM PER KILOGRAM WITH 50 SQUARE CENTIMETRE
 < = LESS THAN



XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER: SZHH00303727

TESTS CONDUCTED

(B) XRF SCREENING LIMITS IN mg/kg FOR REGULATED ELEMENTS IN VARIOUS MATRICES.

ELEMENT	POLYMER MATERIALS	METALLIC MATERIALS	COMPOSITE MATERIALS
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	NOT APPLICABLE	$P \leq 250 < X$

P = PASS
 X = INCONCLUSIVE RESULT
 F = FAIL
 mg/kg = MILLIGRAM PER KILOGRAM = ppm

(C) ESTIMATED DETECTION LIMITS IN mg/kg FOR REGULATED ELEMENTS IN VARIOUS MATRICES.

ELEMENT	POLYMER MATERIALS	METALLIC MATERIALS	COMPOSITE MATERIALS
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	NOT APPLICABLE	200

XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER: SZHH00303727

TESTS CONDUCTED

(D) CHEMICAL CONFIRMATION TEST METHODS:

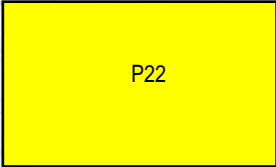
TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO BS EN1122 / US EPA3052, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO US EPA 3052, BY ACID DIGESTION AND DETERMINED BY ICP - OES	2 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO US EPA 3052, BY ACID DIGESTION AND DETERMINED BY ICP - OES	2 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT	WITH REFERENCE TO US EPA 3060A & 7196A, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT	WITH REFERENCE TO IEC 62321-111/95/CDV, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER (SEE NOTE)	0.02mg/kg with 50cm ²

NOTE : TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

(E) RoHS REQUIREMENT

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 ppm)
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC.



XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER: SZHH00303727

TESTS CONDUCTED

SCREENED COMPONENTS:

- (1) SILVER COLOR METAL WITH BLACK PRINTING.
- (2) GREY-BLACK MAGNET WITH YELLOW/GREEN GLUE.
- (3) LIGHT BROWN WOVEN.
- (4) BLACK PAPER.
- (5) BRIGHT BLACK PLASTIC SHEET.
- (6) BLACK GLUE.
- (7) BROWN PAPER.
- (8) RED ENAMELLED WIRE.
- (9) COPPER COLOR METAL WIRE WITH WHITE FIBRE THREAD.
- (10) BLACK PAPER.
- (11) BRIGHT SILVER COLOR METAL.
- (12) WHITE PAPER.
- (13) SILVER COLOR METAL.
- (14) SILVER COLOR METAL (RIVET).
- (15) SILVER-BLUE METAL SHEET.

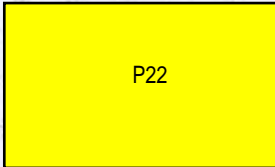
DISCLAIMERS:

THIS XRF SCREENING AND CHEMICAL CONFIRMATION TEST 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 AND CHEMICAL CONFIRMATION TEST REPORT IS SUFFICIENT FOR ITS/HIS/HER PURPOSES.

THE RESULTS SHOWN IN THIS XRF SCREENING AND CHEMICAL CONFIRMATION TEST 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.

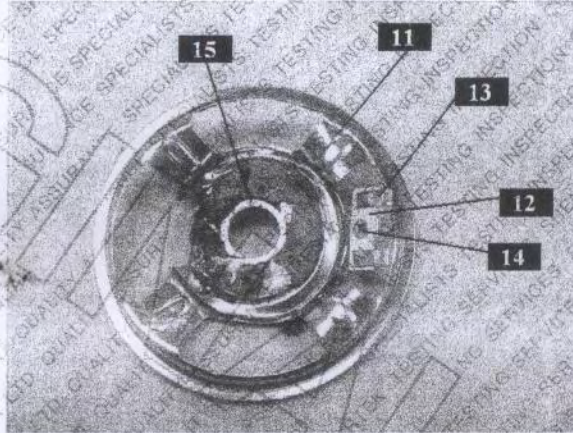
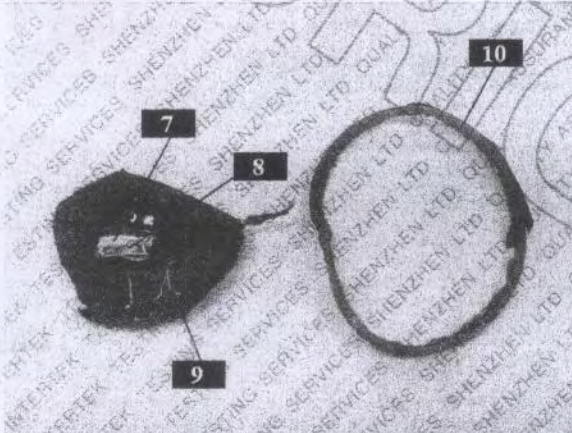
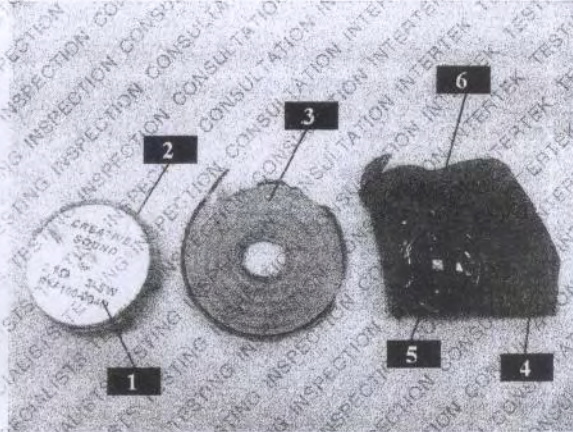
DATE SAMPLE RECEIVED : SEP 20, 2008 & SEP 25, 2008

TESTING PERIOD : SEP 20, 2008 TO SEP 22, 2008 &
SEP 25, 2008 TO SEP 30, 2008



XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER: SZHH00303727

TESTS CONDUCTED



END OF REPORT

Test Report

No.: GZ0707098676/CHEM

Date: JUL 18, 2007

Page 1 of 3

DONG GUAN GOLDCONN ELECTRONICS CO., LTD
DA XIAN DI INDUSTRIAL ZONE, QUAN TANG VILLAGE, LIAO BU TOWN, DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the applicant as C2680
Client Reference: C2680 (USB / MINI USB / 1394 / D-SUB / HDMI SHELL AND CONTACT)

SGS Ref No. : SZ10463404-6.5
Sample Receiving Date : JUL 12, 2007
Testing Period : JUL 12, 2007 TO JUL 18, 2007

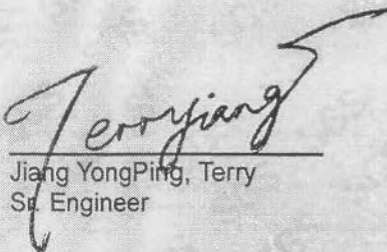
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.


Jiang YongPing, Terry
Sr. Engineer



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GZCM 139128

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	42	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	Negative	See Note 4	#

Test Part Description:

No.1 Brassy metal

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

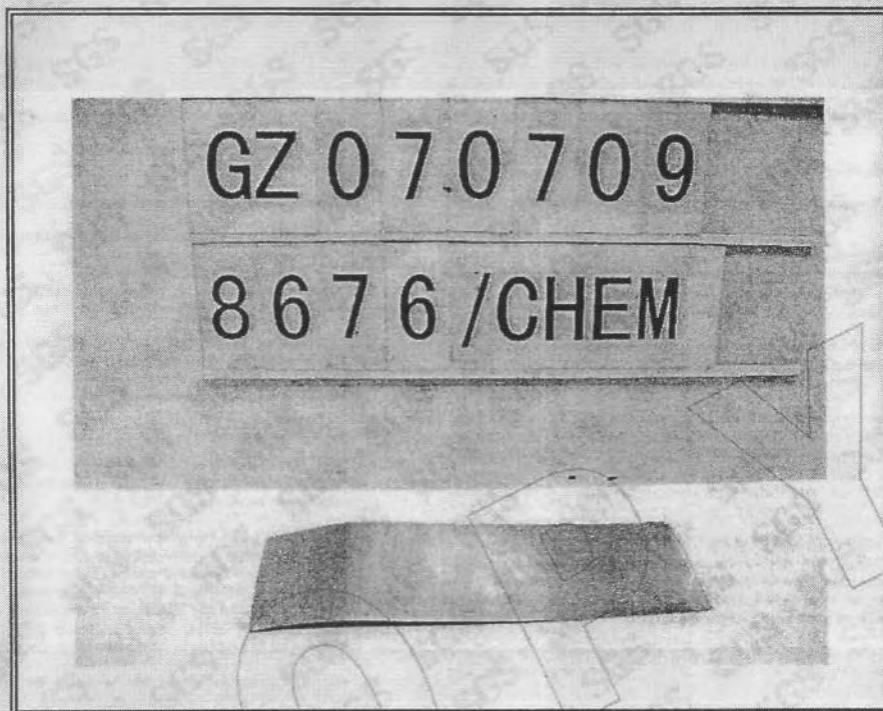
Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.



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GZCM 1391289

Sample photo :



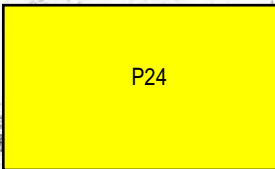
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GZCM 1391290



P24

Test Report

No. SH7013378/GHEM Date: Feb. 8, 2007

FENGRUI MAGNETOELECTRONICS CO., LTD
SHUNJING INDUSTRIAL PARK BAN FU ZHONG SHAN GUANGDONG

The following sample(s) was submitted and identified by/on behalf of the client as:

Sample Name : FD3M
SGS Ref No. : 10250181-4
Model No. : FD3M
Main substance : FERRITE

Sample Receiving Date : Feb.05, 2007
Testing Period : Feb.05 - 08, 2007

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amend to determine the Lead, Cadmium, Mercury and Hexavalent Chrom the submitted sample.

Test Method : (1) With reference to IEC 62321 Ed 111/54/CDV for Cadmium cont Analysis was performed by ICP and AAS.
(2) With reference to IEC 62321 Ed 111/54/CDV for Lead content Analysis was performed by ICP and AAS.
(3) With reference to IEC 62321 Ed 111/54/CDV for Mercury cont Analysis was performed by ICP.
(4) With reference to IEC 62321 Ed 111/54/CDV for Hexavalent Ch Colorimetric Method.

Test Results : Please refer to next pages

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Ella Zhang
Sr. Section Head

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Sandy Hao
Lab Manager

SGS

P24

Test Report

No. 8H7013378/CHEM

Date: Feb. 8, 2007

Test results by chemical method (Unit: mg/kg)

Test Item(s)	Method (refer to)	1	MDL	RoHS Limit
Cadmium(Cd)	(1)	ND	2	100
Lead (Pb)	(2)	ND	2	1000
Mercury (Hg)	(3)	ND	2	1000
Hexavalent Chromium (CrVI)	(4)	ND	2	1000

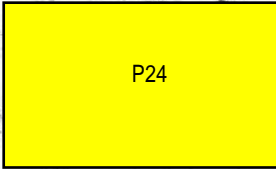
Test Part Description:

1. Red-brown powder

Note:

- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) The maximum permissible limit is quoted from the document 2005/618/EC amending directive 2002/95/EC

SGS

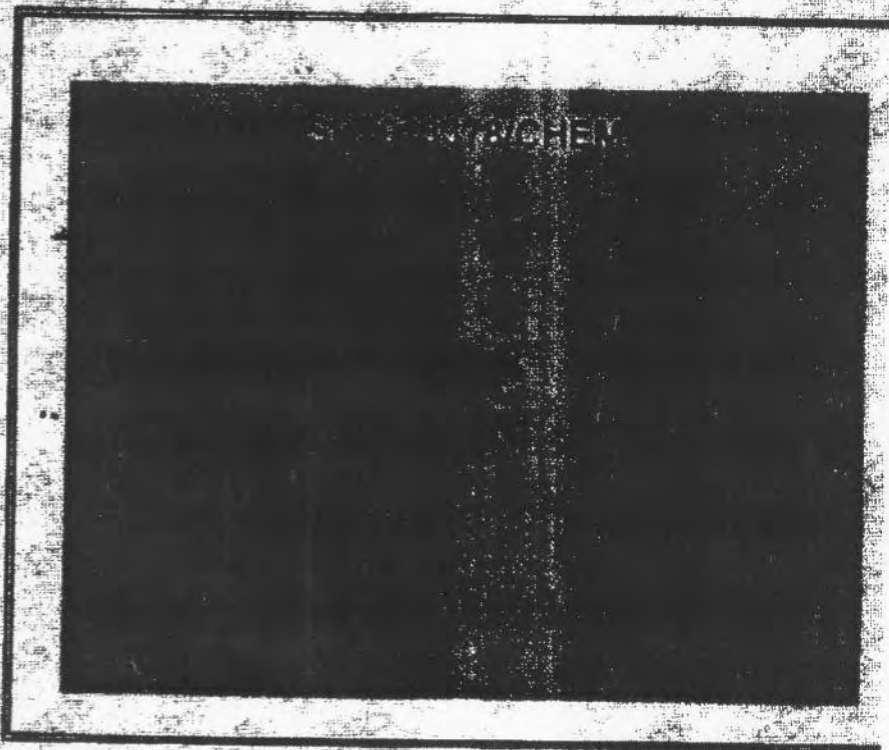


P24

Test Report

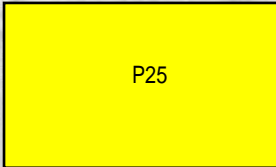
No. SH7013378/CHEM Date: Feb. 8, 2007

Sample photo



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*** End of Report ***



Test Report

No.: GZ0707098677/CHEM

Date: JUL 18, 2007

Page 1 of 3

DONG GUAN GOLDCONN ELECTRONICS CO., LTD
DA XIAN DI INDUSTRIAL ZONE, QUAN TANG VILLAGE, LIAO BU TOWN, DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the applicant as PBT
Client Reference: PBT (USB / MINI USB / 1394 / HDMI HOUSING)

SGS Ref No. : SZ10463404-6.6
Sample Receiving Date : JUL 12, 2007
Testing Period : JUL 12, 2007 TO JUL 18, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

Jiang YongPing, Terry
Sr. Engineer



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Test Report

No.: GZ0707098677/CHEM

Date: JUL 18, 2007

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No. 1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	17	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of PBBs		N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs	(5)	N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:
No. 1 White plastic grains

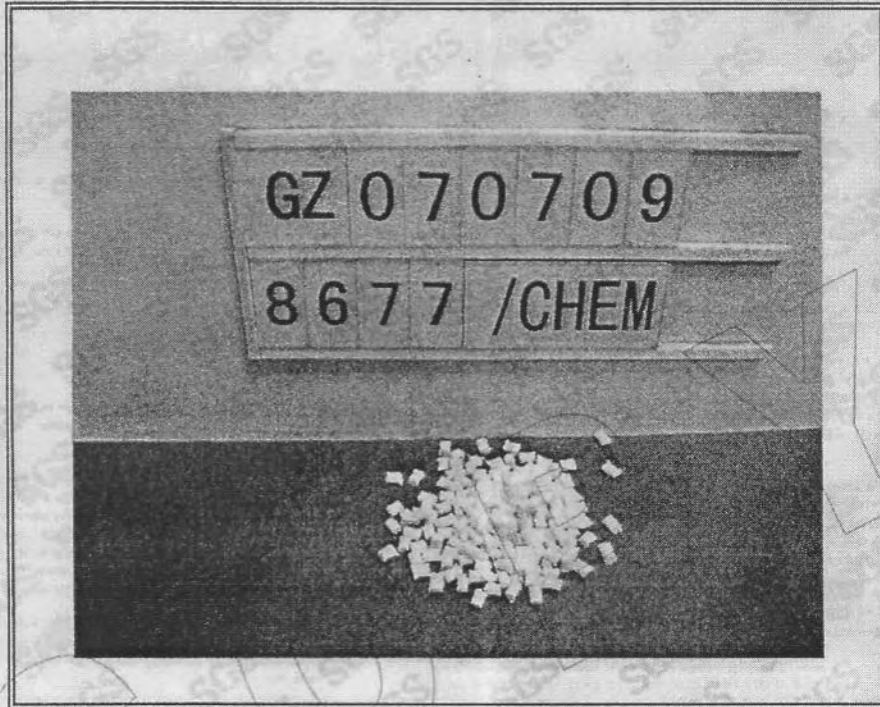
- Note :
1. mg/kg = ppm
 2. N.D. = Not Detected (< MDL)
 3. MDL = Method Detection Limit
 4. "-" = Not regulated



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GZCM 13907

Sample photo :



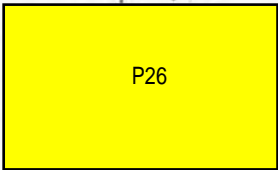
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GZCM 1391



Test Report

No.: GZ0702024726/CHEM

Date: MAR 07, 2007

Page 1 of 3

SEA INCRESNCE PLASTIC PRODUCE
PRECINT BAOHAO OF THE HOUIE TOWN, DONGGUAN CITY, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as PE TIE

SGS Ref No. : SZ10273888-3.2
 Sample Receiving Date : FEB 28, 2007
 Testing Period : FEB 28, 2007 TO MAR 07, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : (1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP.
 (2) With reference to EPA Method 3050B:1996 for Lead Content. Analysis was performed by ICP.
 (3) With reference to EPA Method 3052:1996 & EPA Method 7473:1998 for Mercury Content. Analysis was performed by ICP & Direct Mercury analyzer.
 (4) With reference to IEC 62321 Ed.1 111/54/CDV for Hexavalent Chromium by Colorimetric Method.
 (5) With reference to EPA Method 3540C & 3550C for PBB and PBDE Content. Analysis was performed by GC-MS.

Test Results : Please refer to next page.



Signed for and on behalf of
SGS-CSTC Ltd.

Tang YongPing, Terry
 Engineer

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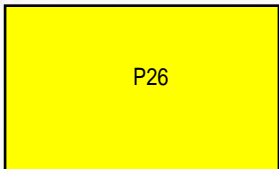
126 Xinyuan Road, SCIENCE Park, Guangzhou Economic & Technological Development District, Guangzhou, China 510663
 中国·广州·经济技术开发区科学城科苑路126号 邮编: 510663

t (86-20) 82155555
 f (86-20) 82155555

t (86-20) 82075125
 f (86-20) 82075125

www.cn.sgs.com
 e sgn.china@sgs.com

GZCM1185758



Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D	2
Lead (Pb)	(2)	5	2
Mercury (Hg)	(3)	N.D	2
Hexavalent Chromium (Cr-VI) by alkaline extraction	(4)	N.D	2
Sum of PBBs		N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs	(5)	N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

No.1 Black plastic + White plastic

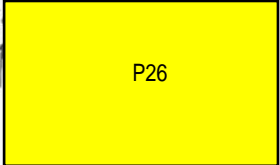
- Note : 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. "-" = Not regulated



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SGS

To: 采购部 李工
From: 潘显华



P26

11/13

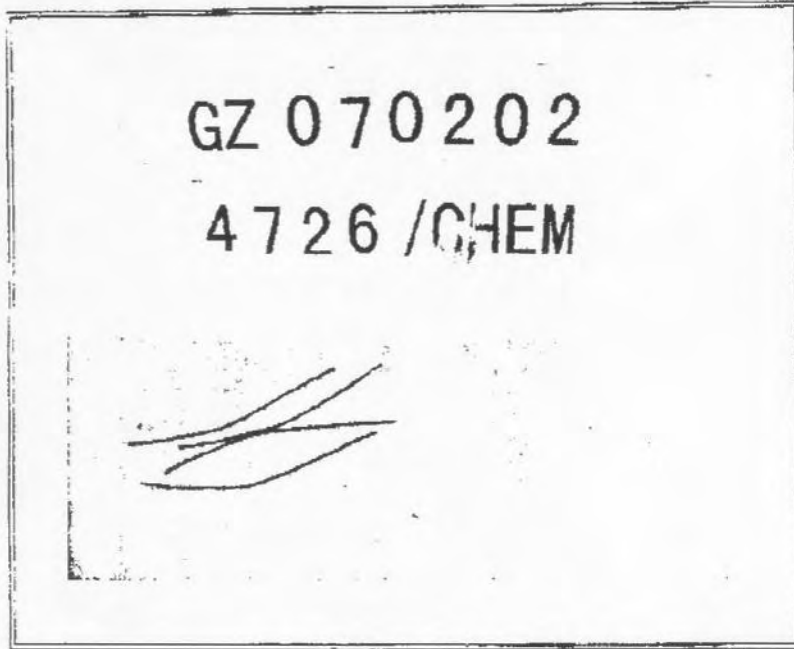
Test Report

No.: GZ0702024726/CHEM

Date MAR 07 2007

Page 3 of 3

Sample photo:



GZ 070202

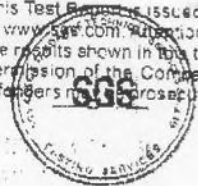
4726 /CHEM

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 511453 Tel: +86 20 62771000 Fax: +86 20 62771020 www.cn.sgs.com
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Test Report

No.: GZ0707098675/CHEM

Date: JUL 18, 2007

Page 1 of 3

DONG GUAN GOLDCONN ELECTRONICS CO., LTD
DA XIAN DI INDUSTRIAL ZONE, QUAN TANG VILLAGE, LIAO BU TOWN, DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the applicant as SPCC
Client Reference: SPCC (USB // MINI USB / 1394 / SHELL)

SGS Ref No. : SZ10463404-6.4
Sample Receiving Date : JUL 12, 2007
Testing Period : JUL 12, 2007 TO JUL 18, 2007

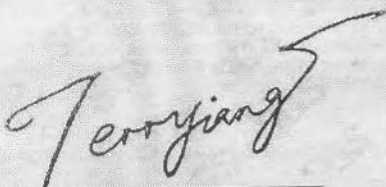
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

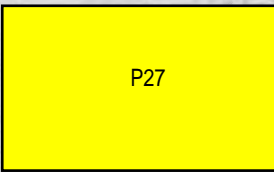
Signed for and on behalf of
SGS-CSTC Ltd.


Jiang YongPing, Terry
SI Engineer



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GZCM 139128



Test Report

No.: GZ0707098675/CHEM

Date: JUL 18, 2007

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No. 1	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	Negative	See Note 4	#

Test Part Description:
No.1 Silver-grey metal

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. **Spot-test:**

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.



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GZCM 139128

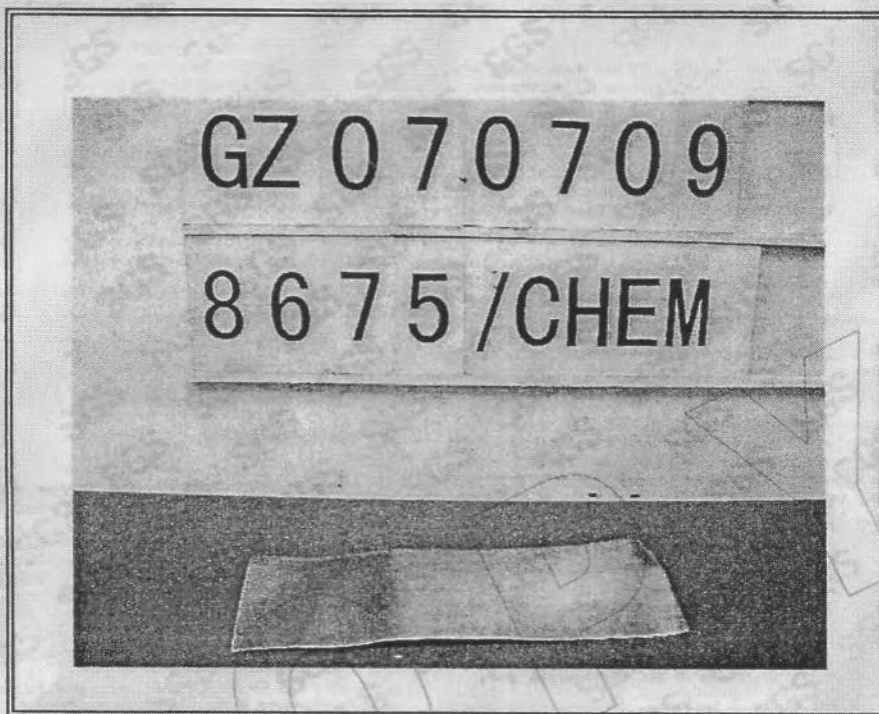
Test Report

No.: GZ0707098675/CHEM

Date: JUL 18, 2007

Page 3 of 3

Sample photo :



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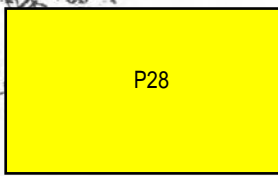
*** End of Report ***



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GZCM 13912

To: 新泰/隆
From: 2X



P28

Test Report

No. GZ0701009563A/CHEM

Date: MAR 01, 2007

Page 1 of 5

HUAXIA COPPER WIRE (D.G.) CO., LTD
HUIHUA METAL WIRE (D.G.) CO., LTD
XINIUPO INDUSTRIAL AREA, DALANG TOWN, DONGGUAN CITY, P.R. CHINA

This report is to supersede test report GZ0701009563/CHEM

Report on the submitted sample said to be TINNED COPPER WIRE

SGS Ref No. : SZ10232993
Buyer : SAMSUNG
Sample Receiving Date : NOV 09, 2006
Testing Period : NOV 06, 2006 TO NOV 10, 2006

Test Requested : A: In accordance with the RoHS Directive 2002/95/EC and its amendment directives.
B: To determine the Hexavalent Chromium content in the submitted sample.

Test Method : A: With reference to IEC 62321 Ed.1 11/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP
(2) Determination of Lead by ICP&AAS.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.
(5) Determination of PBBs and PBDEs by GC-MS.
B: As specified by client, with reference to EPA 3060A, 1995 & EPA 7196A, 1992.
(6) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Conclusion : A: Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.

Jiang YongPing, Terry
Sr. Engineer



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GZCM 1106150

SGS (China) Co., Ltd.
112001

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TEL: (86-755) 82075225 www.cn.sgs.com
(86-755) 82075125 sgs.china@sgs.com

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Test results by chemical method (Unit: mg/kg)

A:

Test Item(s)	Method (refer to)	No. 1	MDL	RoHS Limit
Cadmium (Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	7	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by Spot test	(4)	Negative	See Note (5)	#
Sum of PBBs		N.D.		1000
Monobromobiphenyl		N.D.	6	
Dibromobiphenyl		N.D.	6	
Tribromobiphenyl		N.D.	6	
Tetrabromobiphenyl		N.D.	6	
Pentabromobiphenyl		N.D.	6	
Hexabromobiphenyl		N.D.	6	
Heptabromobiphenyl		N.D.	6	
Octabromobiphenyl		N.D.	6	
Nonabromobiphenyl		N.D.	6	
Decabromobiphenyl		N.D.	6	
Sum of PBDEs (Mono to Nona)(Note 4)	(5)	N.D.		1000
Monobromodiphenyl ether		N.D.	6	
Dibromodiphenyl ether		N.D.	6	
Tribromodiphenyl ether		N.D.	6	
Tetrabromodiphenyl ether		N.D.	6	
Pentabromodiphenyl ether		N.D.	6	
Hexabromodiphenyl ether		N.D.	6	
Heptabromodiphenyl ether		N.D.	6	
Octabromodiphenyl ether		N.D.	6	
Nonabromodiphenyl ether		N.D.	6	
Decabromodiphenyl ether		N.D.	6	
Sum of PBDEs (Mono to Deca)		N.D.		

B:

Test Item(s)	Method (refer to)	No. 1	MDL
Hexavalent Chromium (CrVI) by alkaline extraction	(6)	N.D.	

Test Part Description:

No. 1 Silvery plated metal wire

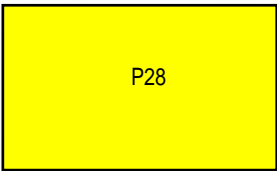


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Test Report

No.: GZ0701009563A/CHEM

Date: MAY 05, 2007

Page 3 of 5

Note: (1) mg/kg = ppm

(2) N.D. = Not Detected

(3) MDL = Method Detection Limit

(4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

(5) Spot-test:

Negative = Absence of CrVI coating Positive = Presence of CrVI coating.

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

(6) # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

(7) * = Not regulated

(8) Results of this report refer to test report GZ0611172717/CHEM

(9) Results in GZ0611172717/CHEM refer to test report GZ0511161538/CHEM.



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电话: 86-20-82075125 86-20-82075125

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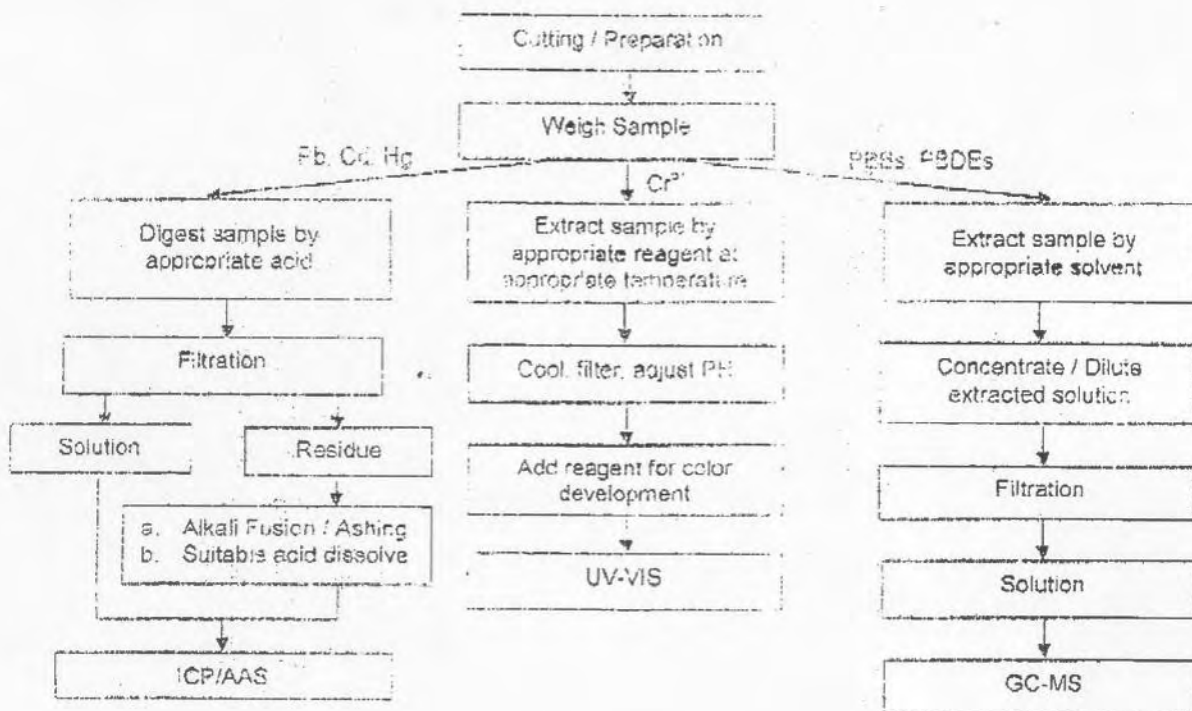
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GZCM 1166157

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ATTACHMENTS

Flow chart of test:



Note: For Cr(VI), we also use spot test method for metal sample.

Operator : David Shen
 Leader : Emily Feng



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GZCM 1166156

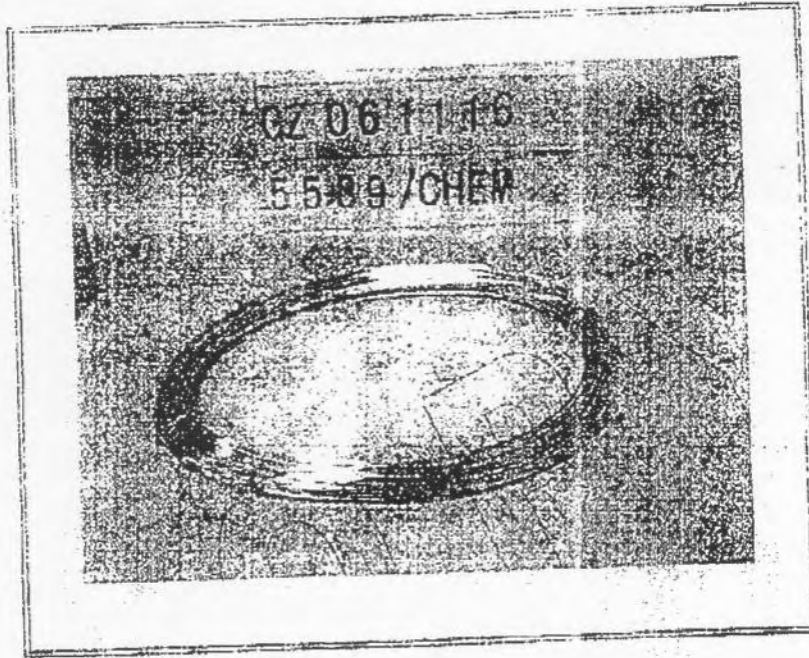
SGS
 9000 Route 200, Gland, Switzerland, CH-1156
 9000 Route 200, Gland, Switzerland, CH-1156

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 9000 Route 200, Gland, Switzerland, CH-1156

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Sample photo:

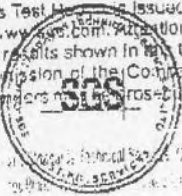


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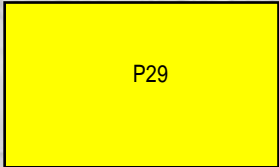
*** End of Report ***



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 电话: 8620 82075121



Test Report

No.: GZ0705069465/CHEM

Date: MAY 23, 2007

Page 1 of 3

SHEN ZHEN NA PU METALLIC CO., LTD
NO.7 ZHEN XING ROAD, BUIYONG INDUSTRIAL AREA, SHAJING TOWN, BAOAN DISTRICT, SHENZHEN CITY

The following sample(s) was/were submitted and identified on behalf of the applicant as 端子
Client Reference : 镀全金, 半金锡, 半金镍, 全锡

SGS Ref No. : SZ10381539-3.1
Sample Receiving Date : MAY 17, 2007
Testing Period : MAY 17, 2007 TO MAY 23, 2007

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/GDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

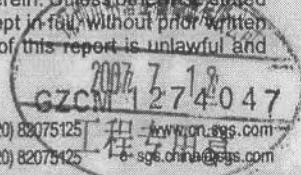
Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.



Huang Fang, Sunny
Sr. Engineer

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	21	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by Spot test	(4)	Negative	See Note 4

Test Part Description:

No.1 Silvery / golden plated metal terminal

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

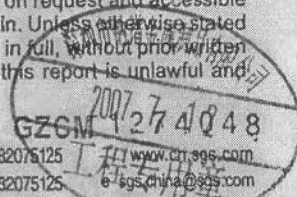
Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

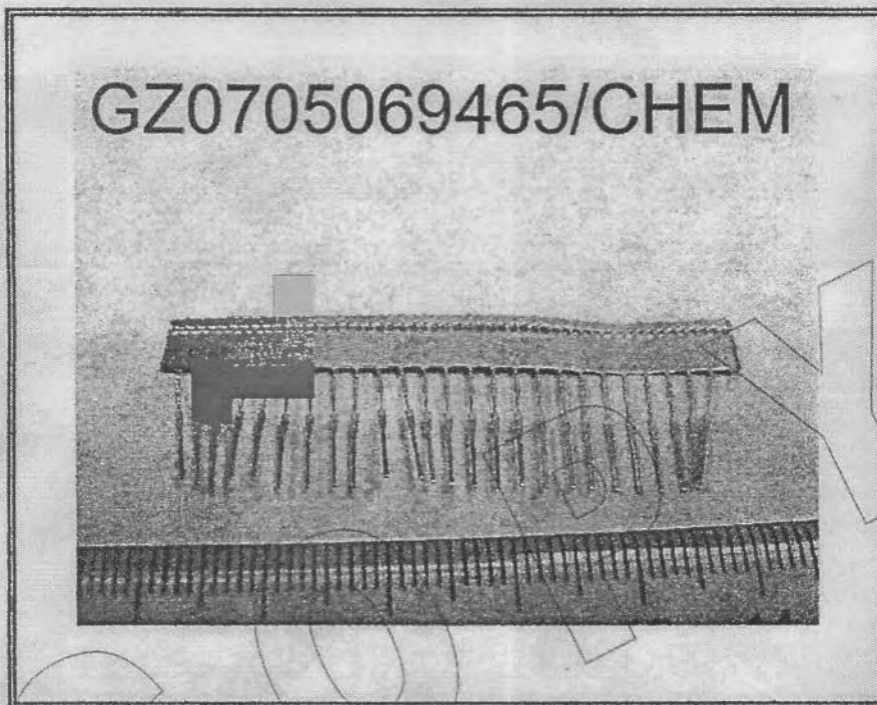
COPY



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Sample photo :



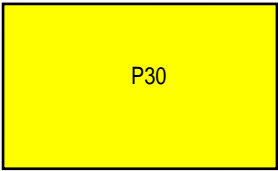
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2007.7.12
GZ0705069465/CHEM
工程专用章



Test Report

No.: GZ0703029657/CHEM

Date: MAR 14, 2007

Page 1 of 4

CHICK YUET PLASTIC FACTORY
SHUI WEI CONTROL DISTRICT, CHANG JIANG CHENG, HUI ZHOU CITY, GUANGDONG, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as 环保 PVC.

SGS Ref No. : SZ10281568-12.4
Buyer : SONY
Sample Receiving Date : MAR 08, 2007
Testing Period : MAR 08, 2007 TO MAR 14, 2007

Test Requested : With reference to SONY SS-00259
To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : (1) With reference to EPA 3052: 1996 for Cadmium Content, see flowchart. Analysis was performed by ICP.
(2) With reference to EPA 3052: 1996 for Lead Content, see flowchart. Analysis was performed by ICP.
(3) With reference to EPA Method 3052:1996 for Mercury Content. Analysis was performed by ICP.
(4) With reference to EPA Method 3060A:1996 & EPA Method 7196A:1992 for Hexavalent Chromium Content. Analysis was performed by UV-Vis Spectrometry.
(5) With reference to EPA Method 3540C & 3550C for PBBs and PBDEs Content. Analysis was performed by GC-MS.

Test Results : Please refer to next page.

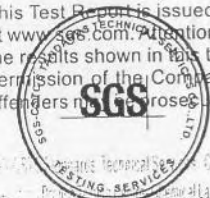
Signed for and on behalf of
SGS-CSTC Ltd.

Handwritten signature of Terry Jiang



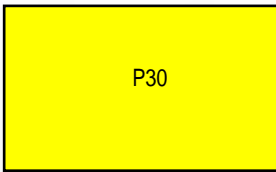
Jiang YongPing, Terry
Sr. Engineer

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Test Report

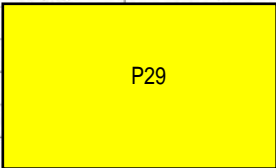
No.: GZ0703029657/CHEM

Date: MAR 14, 2007

Page 2 of 4

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of PBBs		N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs	(5)	N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether			
Pentabromodiphenyl ether			
Hexabromodiphenyl ether			
Heptabromodiphenyl ether			
Octabromodiphenyl ether			
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5



Test Part Description:
No. 1 Black plastic grains



- Note :
1. mg/kg = ppm
 2. N.D. = Not Detected (< MDL)
 3. MDL = Method Detection Limit
 4. "-" = Not regulated

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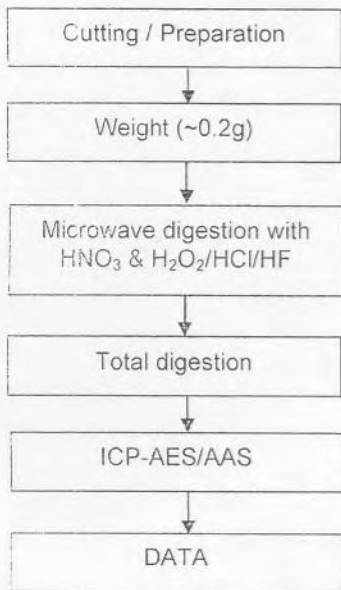


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ATTACHMENTS

Flow chart of digestion (US EPA 3052) :

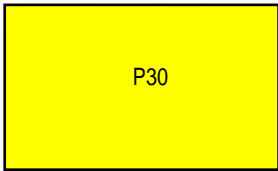


The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : David Shen
Leader : Emily Feng

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P30



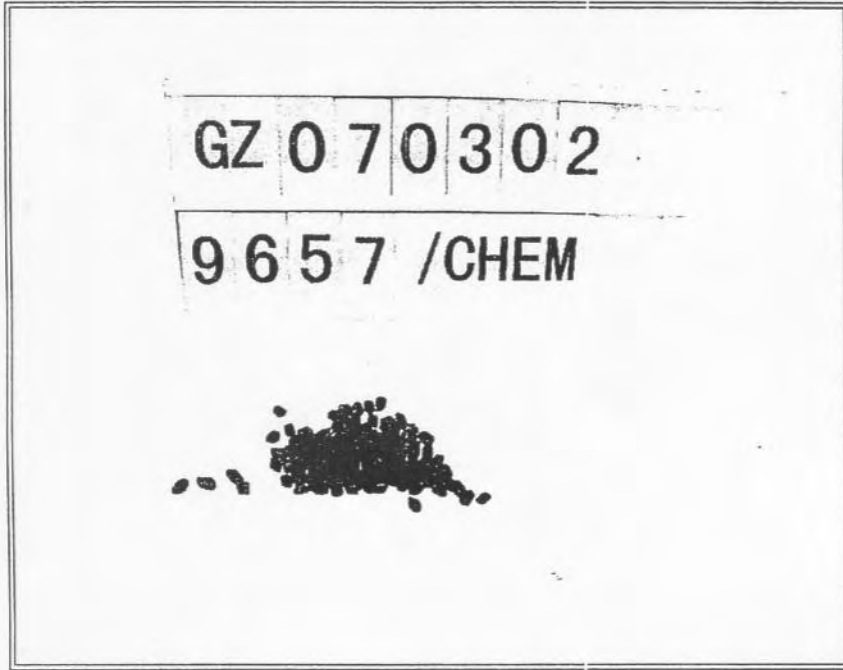
Test Report

No.: GZ0703029657/CHEM

Date: MAR 14, 2007

品管部 4

Sample photo :



SGS authenticate the photo on original report only

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GZCM 1173499

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SGS (China) Technical Services Co., Ltd.
Guangzhou Branch Chemical Laboratory

198 Kezhu Road, SCIENTECH Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663
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测试报告

编号: GZ0705068556/CHEM 日期: 2007年5月22日 页码 1 of 3

永利鑫(信信)五金电子电器有限公司
深圳市宝安区江边第三工业区

以下测试之样品是由申请者所提供及确认: 铁壳系列
客户参考信息: 缺

SGS 参考编号 : GZ10380171EC-3.2
收版日期 : 2007年5月16日
测试日期 : 2007年5月16日至2007年5月22日

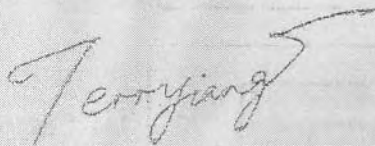
测试要求 : 按照 RoHS 指令 2002/95/EC 及其修订文件要求进行测试。

测试方法 : 参照 IEC 62321 Ed.1 111/54/CDV 电子电器产品中限制物质含量的测定程序
(1) 用 ICP 测定镉的含量
(2) 用 ICP 测定铅的含量
(3) 用 ICP 测定汞的含量
(4) 用比色法测定六价铬的含量

测试结果 : 请参见下一页

测试结论 : 基于所送样品进行的测试, 测试结果与欧盟 RoHS 指令 2002/95/EC 以及后续修正指令的要求相符。

Signed for and on behalf of
SGS-CSTC Ltd.



Jiang YongPing, Terry
Sr. Engineer



备注: 根据客户申请, SGS 出具了此中文报告; 英文版本可根据客户要求提供。(The Chinese test report is issued according to the applicant's request. The English version is available from SGS if further needed).

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GZCM 1311394

测试报告

编号: GZ0705068556/CHEM 日期: 2007年5月22日 页码 2 of 3

测试结果 (单位: 毫克/千克):

测试项目	参考方法	No.1	MDL	RoHS 限值
镉 (Cd)	(1)	N.D.	2	100
铅 (Pb)	(2)	4	2	1000
汞 (Hg)	(3)	N.D.	2	1000
点测试法测六价铬 (Cr VI)	(4)	Negative	参见 注释 4	#

测试部件描述:

No.1 带银灰色镀层的金属

注释: 1. 毫克/千克 = ppm

2. N.D. = 未检出 (< MDL)

3. MDL = 方法检测限

4. 点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;
(如果点测试结果不能确认, 测试样品将进一步由沸水萃取法进行测试)。

沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价铬: 每 50cm² 表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于 0.02mg/kg。

5. # Positive = 阳性, 表示结果与 RoHS 要求相抵触

Negative = 阴性, 表示结果与 RoHS 要求不相抵触



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Guangzhou Testing Service Chemical Laboratory

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

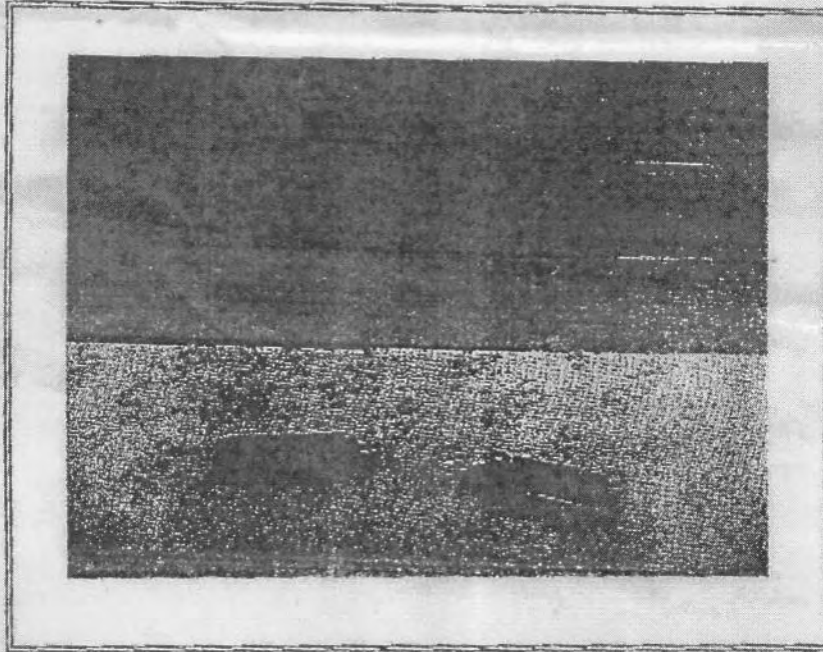
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GZCM 1311395

测试报告

编号: GZ0705068556/CHEM 日期: 2007年5月22日 页码 3 of 3

样品照片:



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*** 报告完 ***



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Printed on 15/05/2007 18:09 P1

FAX NO. :

FROM :

Test Report

NO. A0700280302342

Date: Mar 28, 2007

Page 1 of 4

Customer: DONGGUAN CITY LVZHIDAO SOLDERING TIN PRODUCT FACTORY

Address: Botou Industry Zone, Chashan Town, Dongguan City

Report on the submitted sample said to be

Sample name: Lead-free stannum thread

Model: Cu 0.7 Sn 99.3

Item/Lot No.: /

Material: /

Buyer: /

Supplier: /

Manufacturer: /

Sample received date: Mar 23, 2007

Testing period: From Mar 23, 2007 to Mar 28 2007

Testing Requested

As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBB & PBDE content in the submitted sample in accordance with Directive 2002/95/EC (RoHS).

Testing method:

With reference to IEC 62321, Ed. 111/64QDV

Testing Item	Pretreatment method	Measuring instrument	Report Limit
Lead (Pb)	IEC 62321, section 11/13	ICP-OES	2mg/kg
Cadmium (Cd)	IEC 62321, section 11/13	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321, section 10	CV-AAS	2 mg/kg
Chromium (Cr VI)	IEC 62321, section 9	UV-VIS	2 mg/kg
PBBs/ PBDEs	IEC 62321, section 7	GC-MS	5 mg/kg

Conclusion:

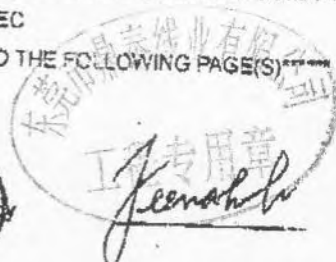
-When tested as specified the submitted sample complied with the requirements of commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Signed for AOV Ltd.

Written by

Approved by



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Address: Bldg. 4, Gaoji Technology Industry Zone, Longjing Rd., Nanshan District, Shenzhen, P. R. China
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AOV TEST REPORT

Test Report

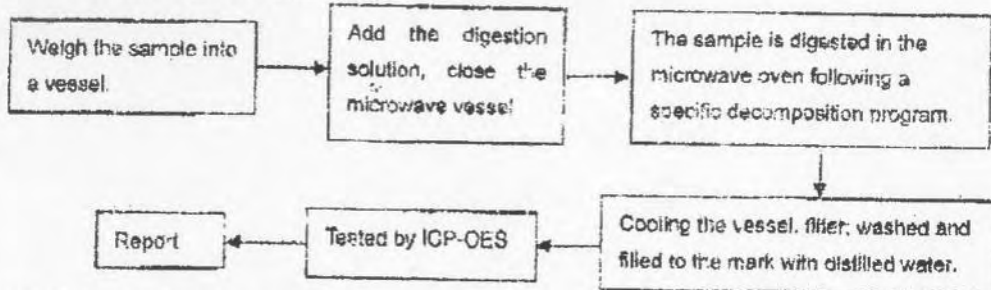
NO.: A07032803C2342

Date: Mar 28, 2007

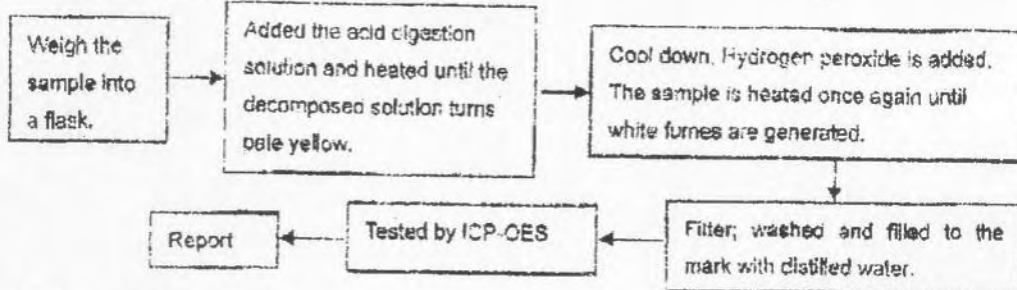
Page 2 of 4

Test Flow:

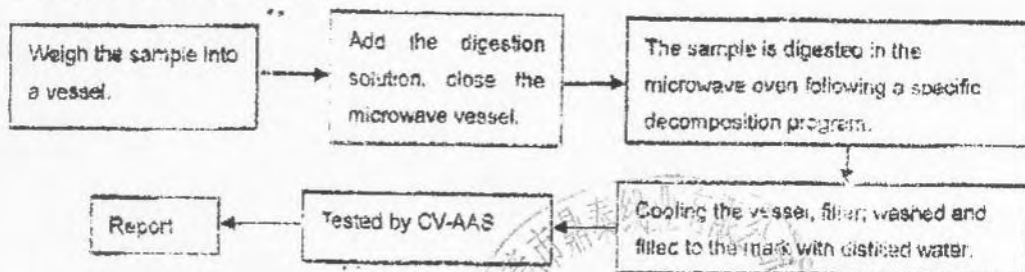
1. To Determine Lead Content:



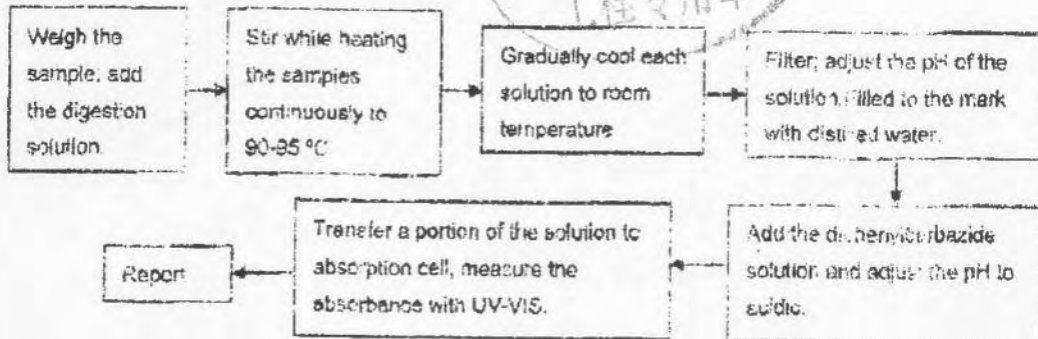
2. To Determine Cadmium Content:



3. To Determine Mercury Content:



4. To Determine Hexavalent Chromium Content:



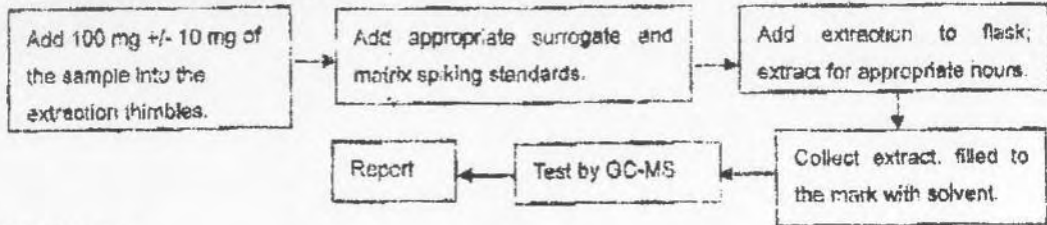
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AOV TEST REPORT

6 To Determine PBBs/PBDEs Content:



Test Results:

Item	Unit	Acceptable Limit	A
Lead (Pb)	mg/kg	1000	89.6
Cadmium (Cd)	mg/kg	100	N.D.
Mercury (Hg)	mg/kg	1000	N.D.
Chromium (CrVI)	mg/kg	1000	N.D.

Flame Retardants	Unit	Acceptable Limit	A
PBBs	mg/kg	1000	--
MonoBB	mg/kg	/	N.D.
DiBB	mg/kg	/	N.D.
TriBB	mg/kg	/	N.D.
TetraBB	mg/kg	/	N.D.
PentaBB	mg/kg	/	N.D.
HexaBB	mg/kg	/	N.D.
HeptaBB	mg/kg	/	N.D.
OctaBB	mg/kg	/	N.D.
NonaBB	mg/kg	/	N.D.
DecaBB	mg/kg	/	N.D.
PBDEs	mg/kg	1000	--
MonoBDE	mg/kg	/	N.D.
DiBDE	mg/kg	/	N.D.
TriBDE	mg/kg	/	N.D.
TetraBDE	mg/kg	/	N.D.
PentaBDE	mg/kg	/	N.D.
HexaBDE	mg/kg	/	N.D.
HeptaBDE	mg/kg	/	N.D.
OctaBDE	mg/kg	/	N.D.
NonaBDE	mg/kg	/	N.D.
DecaBDE	mg/kg	/	N.D.



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AOV TEST REPORT

Test Report

NO.: A07032803C2342

Date: Mar 26, 2007

Page 4 of 4

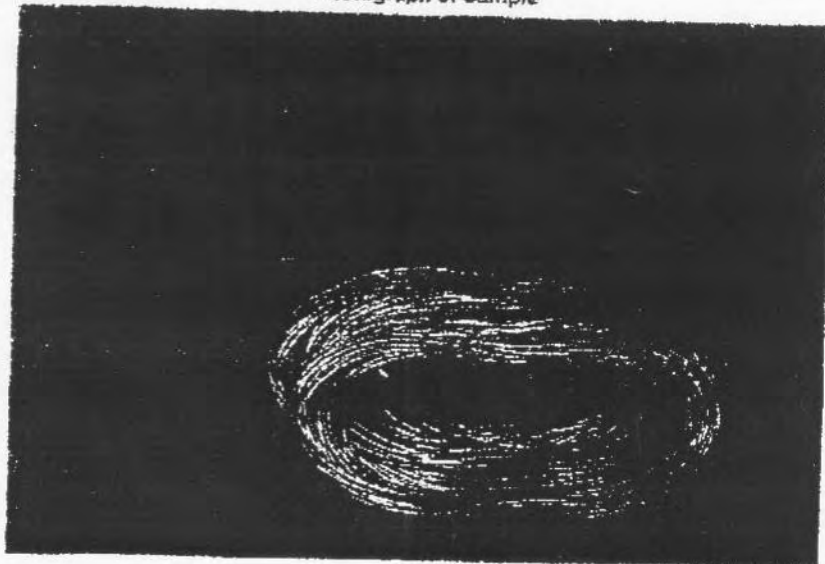
Specimen Description:

A: silver metal thread

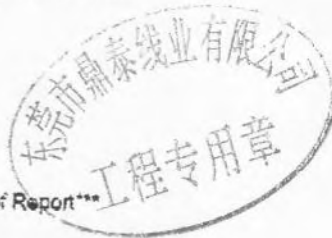
Note:

- Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.
- mg/kg=ppm
- N.D. =not detected (<Report Limit)
- *(Deca BDE) In polymeric applications is exempted by commission Decision of 13 Oct 2005 amending directive 2002/95/EC notified under document 2006/717/EC
- Photo is included

Photograph of Sample



Lead-free stannum thread



End of Report

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P33

Test Report

No.: GZ0712190867/CHEM

Date: DEC 21, 2007

Page 1 of 3

HAOYU (HONGKONG) LIMITED.
QUANTANG PRECINCT LIAOBU TOWN DONGGUAN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as BRASS (CU)

SGS Ref No. : GZ10761831EC-6.2
Buyer : HT
Supplier : HAOYU
Sample Receiving Date : DEC 18, 2007
Testing Period : DEC 18, 2007 TO DEC 21, 2007

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP&AAS.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer





P33

Test Report

No.: GZ0712190867/CHEM

Date: DEC 21, 2007

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	4	2
Lead (Pb)	(2)	165	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	Negative	See Note 4

Test Part Description:

No.1 Silvery plated metal

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

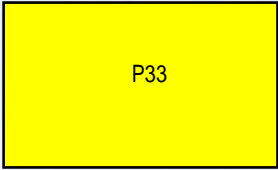
Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.





Test Report



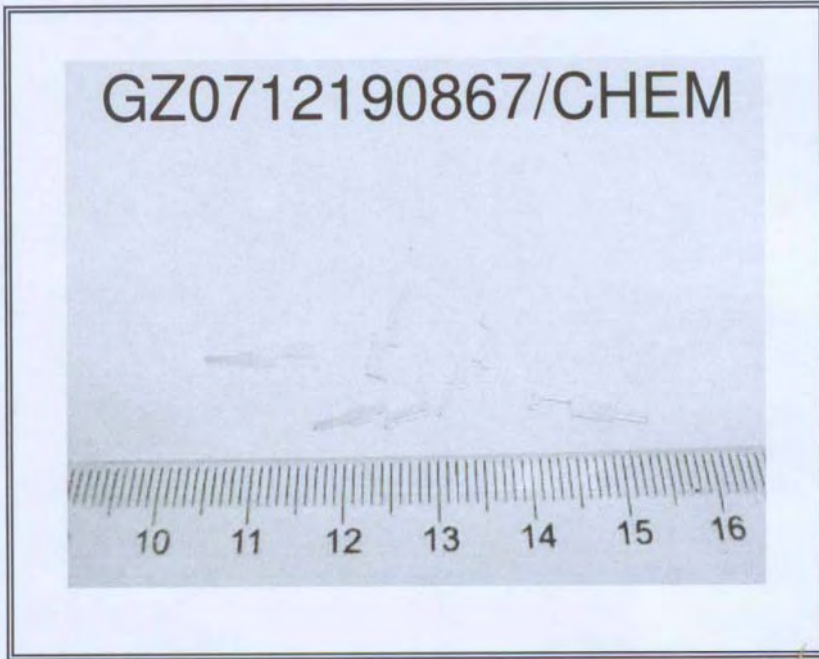
P33

No.: GZ0712190867/CHEM

Date: DEC 21, 2007

Page 3 of 3

Sample photo :



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*** End of Report ***





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Test Report

No.: GZ0712190866/CHEM

Date: DEC 21, 2007

Page 1 of 3

HAOYU (HONGKONG) LIMITED.
QUANTANG PRECINCT LIAOBU TOWN DONGGUAN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as Lron shell

SGS Ref No. : GZ10761831EC-6.1
Buyer : HT
Supplier : HAOYU
Sample Receiving Date : DEC 18, 2007
Testing Period : DEC 18, 2007 TO DEC 21, 2007

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer





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Test Report

No.: GZ0712190866/CHEM

Date: DEC 21, 2007

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	Negative	See Note 4

Test Part Description:

No.1 Silvery metal shell

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. **Spot-test:**

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

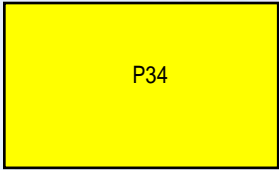
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.





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Sample photo :



SGS authenticate the photo on original report only

*** End of Report ***

Test Report

No.: GZ0707105752/CHEM

Date: AUG 01, 2007

Page 1 of 3

DONG GUAN SHI JIE LIAN TONG ELECTRONICS FACTORY
HUANG SI WEI INDUSTRY SHI JIE TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as PHENOLIC RESIN

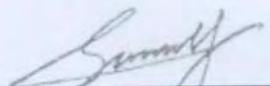
SGS Ref No. : GZ10496963EC-9.9
Sample Receiving Date : JUL 26, 2007
Testing Period : JUL 26, 2007 TO AUG 01, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.



Huang Fang, Sunny
Sr. Engineer



Test Report

No.: GZ0707105752/CHEM

Date: AUG 01, 2007

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of PBBs		N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs	(5)	N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

No.1 Brown board w/ green printing

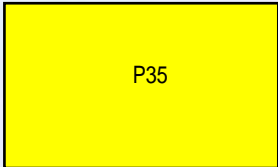
Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. "-" = Not regulated





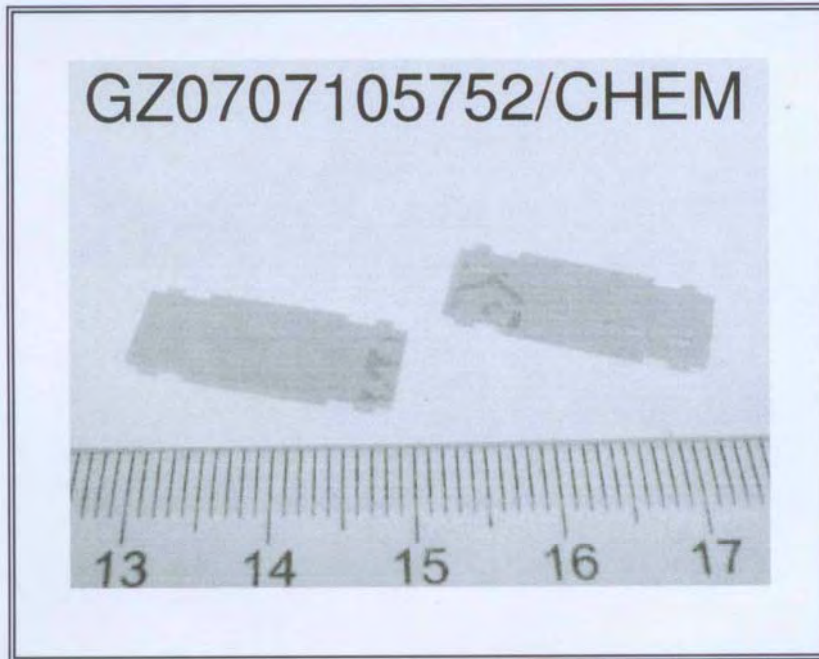
Test Report

No.: GZ0707105752/CHEM

Date: AUG 01, 2007

Page 3 of 3

Sample photo :



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*** End of Report ***



Test Report

No.: GZ0707105751/CHEM

Date: AUG 01, 2007

Page 1 of 3

DONG GUAN SHI JIE LIAN TONG ELECTRONICS FACTORY
HUANG SI WEI INDUSTRY SHI JIE TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as POM

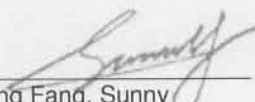
SGS Ref No. : GZ10496963EC-9.8
Sample Receiving Date : JUL 26, 2007
Testing Period : JUL 26, 2007 TO AUG 01, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.


Huang Fang, Sunny
Sr. Engineer



Test Report

No.: GZ0707105751/CHEM

Date: AUG 01, 2007

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of PBBs	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether	N.D.	5	
Nonabromodiphenyl ether	N.D.	5	
Decabromodiphenyl ether	N.D.	5	

Test Part Description:

No.1 Black plastic

- Note :
1. mg/kg = ppm
 2. N.D. = Not Detected (< MDL)
 3. MDL = Method Detection Limit
 4. "-" = Not regulated



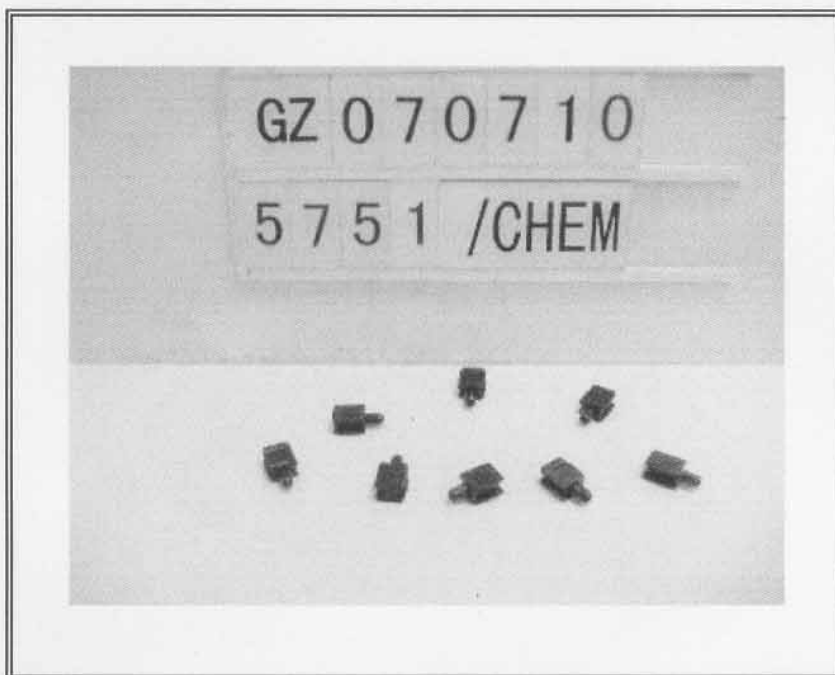
Test Report

No.: GZ0707105751/CHEM

Date: AUG 01, 2007

Page 3 of 3

Sample photo :

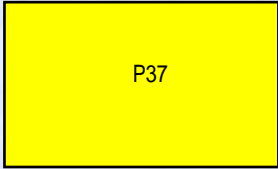


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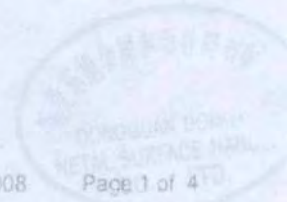
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Test Report

No.: GZ0712199380/CHEM

Date: JAN 04, 2008

Page 1 of 4

DONGGUAN DONGXU METAL SURFACE HANDLE CO., LTD.
LUDONG INDUSTRY DISTRICT HUMEN TOWN DONGGUAN CITY GUANG DONG CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as: 光亮镍电镀液

SGS Ref No. : SZ10776994-32.27
 Buyer : SONY
 Sample Receiving Date : DEC 29, 2007
 Testing Period : DEC 29, 2007 TO JAN 04, 2008

Test Requested : With reference to SONY SS-00259
 To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : (1) With reference to EPA 3052: 1996 for Cadmium Content, see flowchart.
 Analysis was performed by ICP.
 (2) With reference to EPA 3052: 1996 for Lead Content, see flowchart.
 Analysis was performed by ICP.
 (3) With reference to EPA 3052: 1996 for Mercury Content
 Analysis was performed by ICP.
 (4) With reference to EPA 3060A: 1996 & EPA 7196A: 1992 for Hexavalent Chromium Content.
 Analysis was performed by UV-Vis Spectrometry.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd

Huang Fang, Sunny
 Sr. Engineer



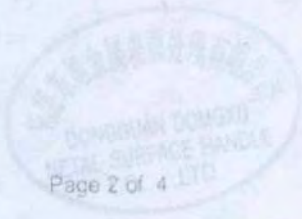
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GZCN1782775

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Test Report

No.: GZ0712199380/CHEM

Date: JAN 04, 2008

Page 2 of 4 LTD

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No. 1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2

Test Part Description:
No. 1 Green liquid

- Note:
- 1. mg/kg = ppm
 - 2. N.D. = Not Detected (< MDL)
 - 3. MDL = Method Detection Limit

COPY



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GZCM1702776

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Test Report

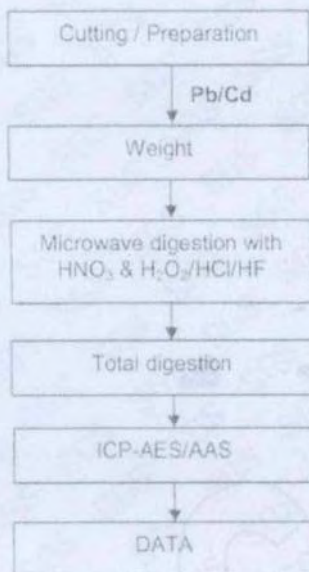
No.: GZ0712199380/CHEM

Date: JAN 04, 2008

Page 3 of 4

ATTACHMENTS

Flow chart of test:



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : David Shen
Leader : Emily Feng



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GC0M1782777

Member of the SGS Group (SGS SA)



Test Report

No : GZ0712199380/CHEM

Date: JAN 04, 2008

Page 4 of 4

Sample photo



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*** End of Report ***



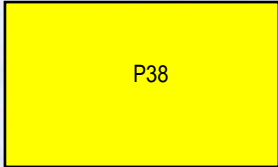
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GZCM 1782778

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Test Report

No.: GZ0712199378/CHEM

Date: JAN 04, 2008

Page 1 of 4

DONGGUAN DONGXU METAL SURFACE HANDLE CO., LTD.
LUDONG INDUSTRY DISTRICT HUMEN TOWN DONGGUAN CITY GUANG DONG CHINA



The following sample(s) was/were submitted and identified on behalf of the applicant as 铝电镀液

SGS Ref No. : SZ10776994-32,25
 Buyer : SONY
 Sample Receiving Date : DEC 29, 2007
 Testing Period : DEC 29, 2007 TO JAN 04, 2008

Test Requested : With reference to SONY SS-00259
 To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : (1) With reference to EPA 3052: 1996 for Cadmium Content, see flowchart.
 Analysis was performed by ICP.
 (2) With reference to EPA 3052: 1996 for Lead Content, see flowchart.
 Analysis was performed by ICP.
 (3) With reference to EPA 3052: 1996 for Mercury Content.
 Analysis was performed by ICP.
 (4) With reference to EPA 3060A: 1996 & EPA 7196A: 1992 for Hexavalent Chromium Content.
 Analysis was performed by UV-Vis Spectrometry.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

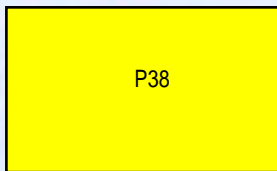
Huang Fang, Sunny
Sr. Engineer

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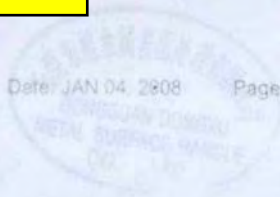
P38

Test Report

No.: GZ0712199378/CHEM

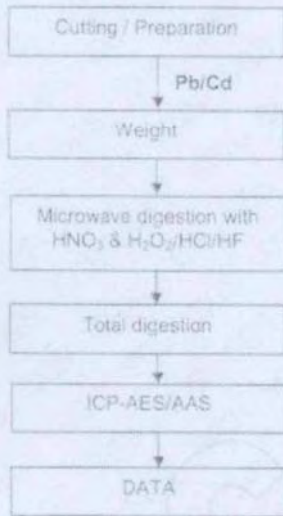
Date: JAN 04, 2008

Page 3 of 4



ATTACHMENTS

Flow chart of test:



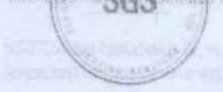
COPY

The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator: David Shen
Leader: Emily Feng



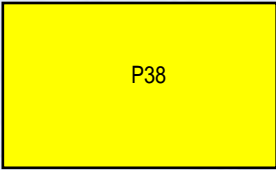
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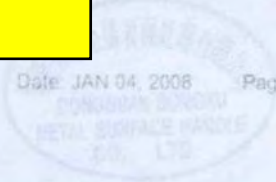
P38

Test Report

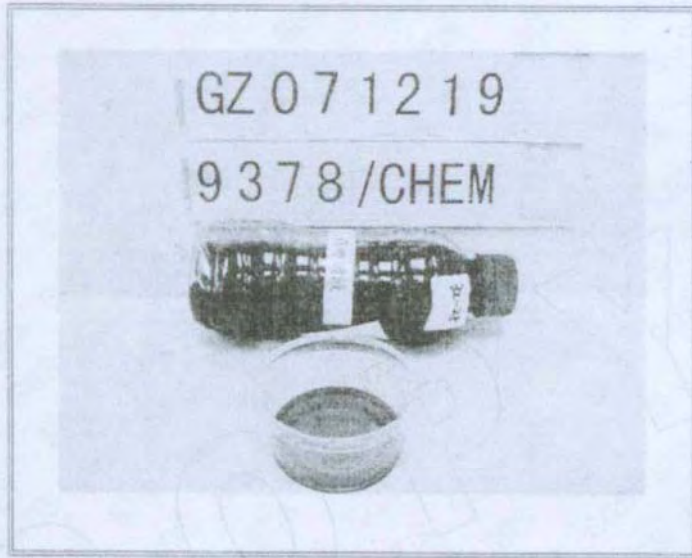
No.: GZ0712199378/CHEM

Date: JAN 04, 2008

Page 4 of 4



Sample photo



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*** End of Report ***



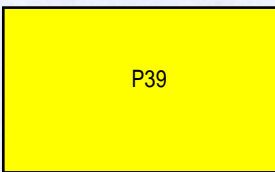
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GZCM 1817104

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P39

3单号

测试报告

No. CANEC0802581702

日期: 2008年05月27日 第1页,共4页

南通开发区新东照明电器有限公司
中国江苏省南通市开发区良种场工业园区景兴路68-9

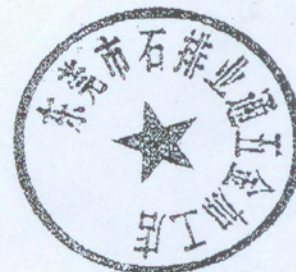
以下测试之样品是由申请者所提供及确认:

碳素弹簧钢丝

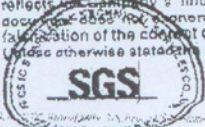
- SGS工作编号 : 11045895 - GZ
- SGS内部编号 : 4.2
- 样品接收日期 : 2008年05月22日
- 测试周期 : 2008年05月22日 - 2008年05月27日
- 测试要求 : 根据客户要求测试
- 测试方法 : 请参见下一页
- 测试结果 : 请参见下一页
- 结论 : 基于所送样品进行的测试, 测试结果与欧盟RoHS指令2002/95/EC以及后续修正指令的要求相符。

通标标准技术服务有限公司
授权签名

Huang Fang, Sunny
Sr. Engineer



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GZCM 2081536

SGS

P39

测试报告

No. CANEC0802581702

日期: 2008年05月27日 第2页,共4页

测试结果:

样品1 ID

: CAN08-025817.001

样品1描述

: 银灰色金属线

RoHS指令2002/95/EC

测试项目	单位	测试方法 (参考)	测试结果	MDL	限值
镉 (Cd)	毫克/千克	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	100
铅 (Pb)	毫克/千克	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
汞 (Hg)	毫克/千克	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
沸水萃取法测六价铬 (Cr VI)	-	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	Negative	◇	#

注释:

1. 毫克/千克 = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限
4. ◇ = 点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;
(如果点测试结果为Negative或不能确认, 测试样品需进一步由沸水萃取法进行测试)。

沸水萃取法:

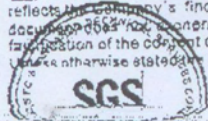
Negative = 未检测到六价铬
Positive = 检测到六价铬: 每50cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02mg/kg。

5. # Positive = 阳性
Negative = 阴性
6. "-" = 未规定

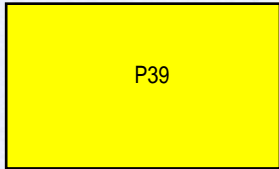
7. 本测试报告内容是参照报告编号为CANEC0802581701的中文译本, 中英文版本如有歧异, 概以英文版为准。



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SZDM 2081537



P39

测试报告

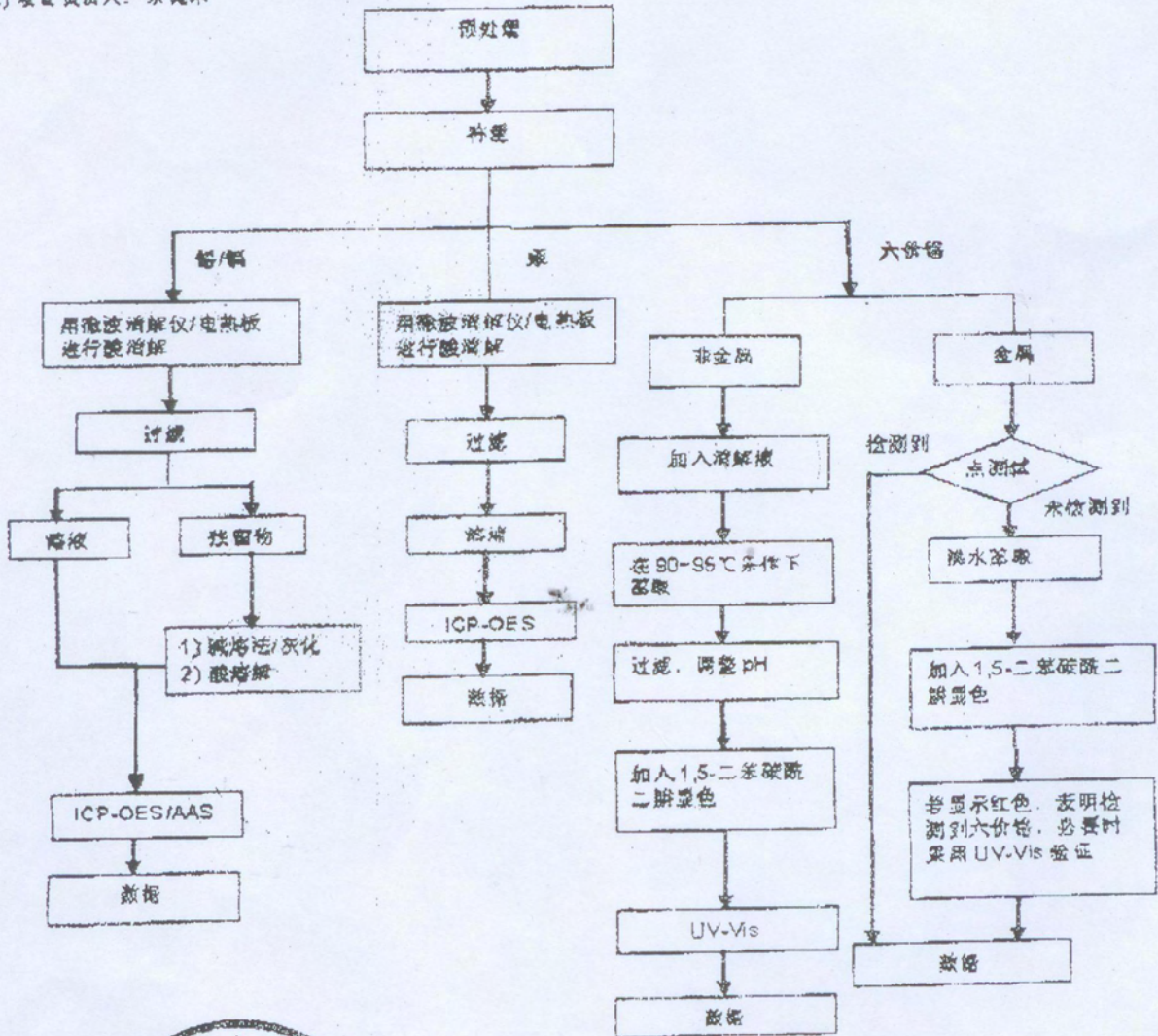
No. CANEC0802581702

日期: 2008年05月27日 第3页,共4页

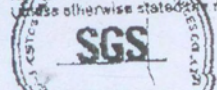
附件

- 1) 分析人员: 陈美波
- 2) 项目负责人: 余奕东

测试流程图

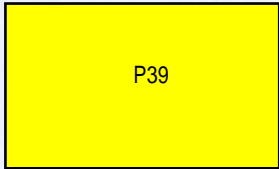


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GZCM 2081538

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P39

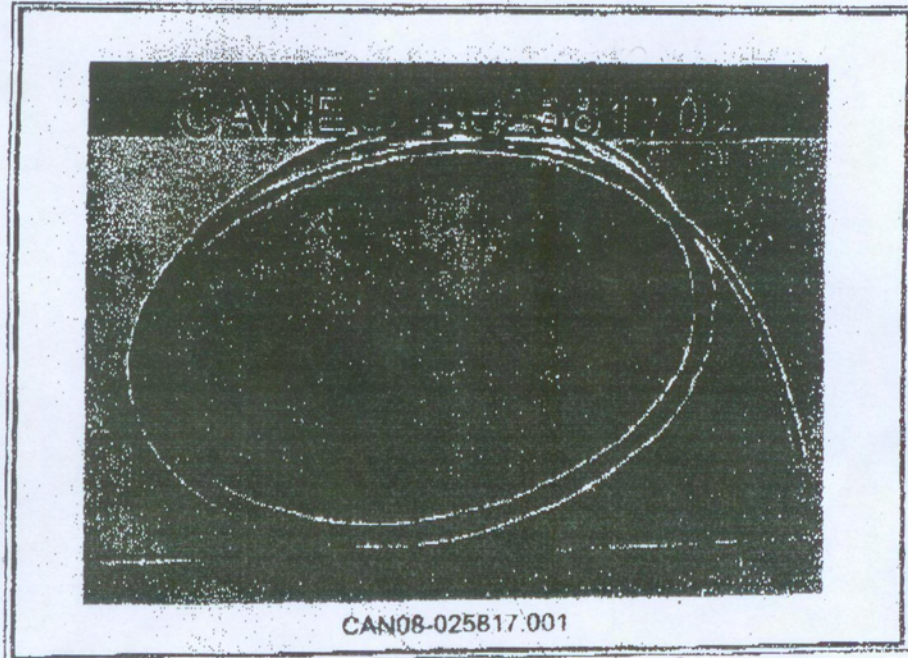
SGS

测试报告

No. CANEC0802581702

日期: 2008年05月27日 第4页,共4页

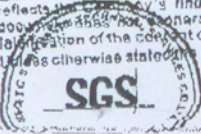
样品照片:



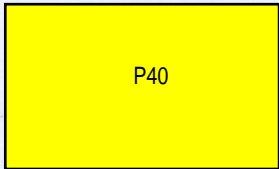
此照片仅限于随SGS正本报告使用
*** 报告完 ***



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GZCM 2081539



P40

李敏的签名

测试报告

编号:GZSCR0809103587/LP

日期:2008年9月10日

页码1of2

东莞市玮丰五金

东莞市东城上桥工业区



本报告是基于所提供的名称“1.5不锈钢”的样品所做的测试

SGS 参考编号 : SZ080910476EC-2.1
 收板日期 : 2008年9月10日
 测试日期 : 2008年9月10日至2008年9月17日

测试要求 : (1)委托样品中的铅、镉、汞和六价铬含量。
 : (2)委托样品中的多溴联苯、多溴联苯醚的含量。

测试方法 : (1)铅含量—SGS内部方法,参照EPA方法3050B:1996。
 镉含量—SGS内部方法,参照BS EN1122:2001方法B。
 汞含量—SGS内部方法,参照EPA方法3052:1996。
 六价铬含量—参照EPA方法3060A:1996和7196A:1992。
 分析仪器为火焰原子吸收光谱仪和电感耦合等离子体发射光谱仪
 紫外线分光光度计。
 : (2)SGS内部方法。分析仪器为GC/MS。

测试结果:请参见下一页

Signed for and on behalf of
SGS-CSTC Ltd

He Xiaoyan, Jane
Tech. Manager

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GZCM 257315

SGS-CSTC Standards Technical
Services Co., Ltd. Guangzhou
Branch-Chemical Laboratory.

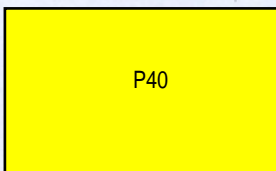
4/P., Block 8, Yu Jiug Industrial Park, Ling shan Road, Zhou Cun Dong Pu Area, Tianhe District, Guangzhou China: 510660
中国, 广州, 天河江东南珠村灵山路裕景工业园八栋四楼 邮编: 510660

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Tu: 台



P40

测试报告

编号:GZSCR0809103587/LP

日期:2008年9月10日

页码2of2

测试结果:

银色金属

(1)

铅含量(Pb)	N. D.
镉含量(Cd)	N. D.
汞含量(Hg)	N. D.
六价铬含量[Cr(VI)]	N. D.



说明:-N. D. =没有检测到(<2ppm)

-ppm=毫克/千克

(2)

阻燃剂	银色金属	检测限
多溴联苯
单溴联苯	N. D.	5ppm
二溴联苯	N. D.	5ppm
三溴联苯	N. D.	5ppm
四溴联苯	N. D.	5ppm
五溴联苯	N. D.	5ppm
六溴联苯	N. D.	5ppm
七溴联苯	N. D.	5ppm
八溴联苯	N. D.	5ppm
九溴联苯	N. D.	5ppm
十溴联苯	N. D.	5ppm
多溴联苯醚(PBDEs)
单溴联苯醚	N. D.	5ppm
二溴联苯醚	N. D.	5ppm
三溴联苯醚	N. D.	5ppm
四溴联苯醚	N. D.	5ppm
五溴联苯醚	N. D.	5ppm
六溴联苯醚	N. D.	5ppm
七溴联苯醚	N. D.	5ppm
八溴联苯醚	N. D.	5ppm
九溴联苯醚	N. D.	5ppm
十溴联苯醚	N. D.	5ppm

说明:-N. D. =没有检测到(<5ppm)

-ppm=毫克/千克

报告完

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GZCM 257316

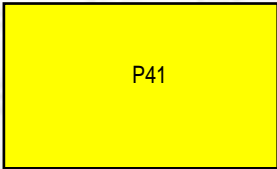
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch-Chemical Laboratory.

4/F., Block 8, Yu Jing Industrial Park, Ling Shan Road, Zhou Cun Dong Pu Area, Tianhe District, Guangzhou, China 510660
中国, 广州, 天河工东圃珠村灵山路裕景工业园八栋四楼 邮编:510660

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4A69.

Test Report

No. CANEC0801358901

Date: 06 Apr 2008

Page 1 of 3

KINGLET FILATURE RIVET FACTORY
XIA SHA INDUSTRIAL AREA SHI PAI TOWN DONG GUAN CITY
CHINA


The following sample(s) was/were submitted and identified on behalf of the clients as :

镀白锌螺丝

SGS Job No. : 10931041 - GZ
 SGS Internal Reference No. : 3.1
 Buyer : 合广、新威、盈锋
 Supplier : 同富、文生
 Date of Sample Received : 31 Mar 2008
 Testing Period : 31 Mar 2008 - 03 Apr 2008

Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).
 Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.



Huang Fang, Sunny
Sr. Engineer

COPY

Y



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GZCM 1980735

Test Report

No. CANEC0801358901

Date: 06 Apr 2008

Page 2 of 3

Test Results:

ID for specimen 1 : CAN08-013589.001
 Description for specimen 1 : Silvery plated metal screw

RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	-	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	Negative	◇	#

Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. ◇ = Spot-Test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
 (The tested sample should be further verified by boiling-water-extraction method if the spot test result is negative or cannot be confirmed.)

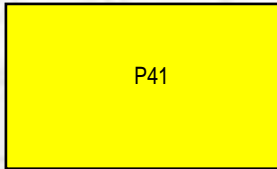
Boiling-water-extraction:

Negative = Absence of CrVI coating
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. # = Positive indicates the presence of CrVI on the tested areas.
 Negative indicates the absence of CrVI on the tested areas.
6. "-" = Not regulated

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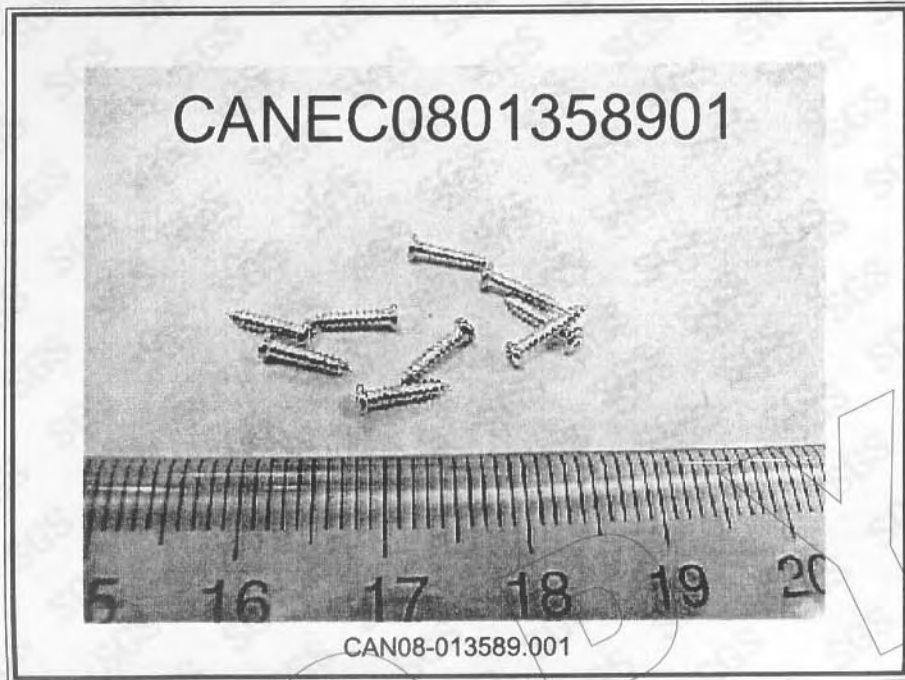
Test Report

No. CANEC0801358901

Date: 06 Apr 2008

Page 3 of 3

Sample photo:



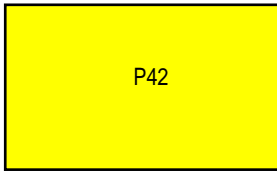
SGS authenticate the photo on original report only

*** End of Report ***

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GZCM 1980737



Test Report

No. : CE/2008/90943

Date : 2008/09/10

Page : 1 of 6

SHENMAO TECHNOLOGY INC.
 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN
 COUNTY 328, TAIWAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : PURE TIN
 Style/Item No. : H99.99S
 Sample Receiving Date : 2008/09/03
 Testing Period : 2008/09/03 TO 2008/09/10

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.
- (5) Determination of PBB and PBDE by GC/MS.

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

Chenyu Kung / Operation Manager
 Signed for and on behalf of
SGS TAIWAN LTD.
 Chemical Laboratory – Taipei

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Test Report

No. : CE/2008/90943

Date : 2008/09/10

Page : 2 of 6

SHENMAO TECHNOLOGY INC.
NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN
COUNTY 328, TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	13	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs		n.d.	-
Monobromodiphenyl ether		n.d.	5
Dibromodiphenyl ether		n.d.	5
Tribromodiphenyl ether		n.d.	5
Tetrabromodiphenyl ether		n.d.	5
Pentabromodiphenyl ether		n.d.	5
Hexabromodiphenyl ether		n.d.	5
Heptabromodiphenyl ether		n.d.	5
Octabromodiphenyl ether		n.d.	5
Nonabromodiphenyl ether		n.d.	5
Decabromodiphenyl ether		n.d.	5

TEST PART DESCRIPTION:

NO.1 : SILVER COLORED METAL

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Test Report

No. : CE/2008/90943

Date : 2008/09/10

Page : 3 of 6

SHENMAO TECHNOLOGY INC.
NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN
COUNTY 328, TAIWAN



Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. "-" = Not Regulated

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Test Report

No. : CE/2008/90943

Date : 2008/09/10

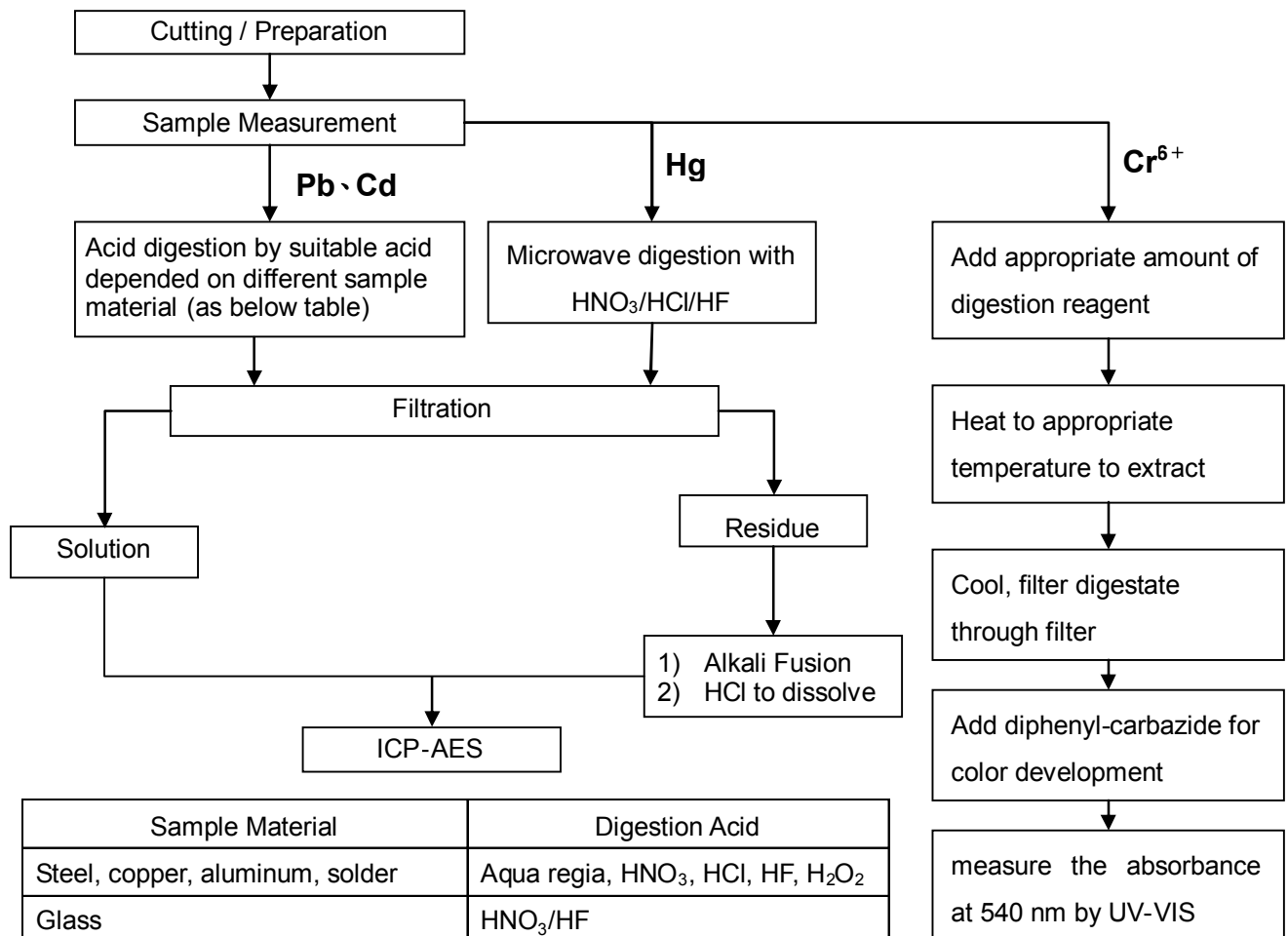
Page : 4 of 6

SHENMAO TECHNOLOGY INC.

NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, TAIWAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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Test Report

No. : CE/2008/90943

Date : 2008/09/10

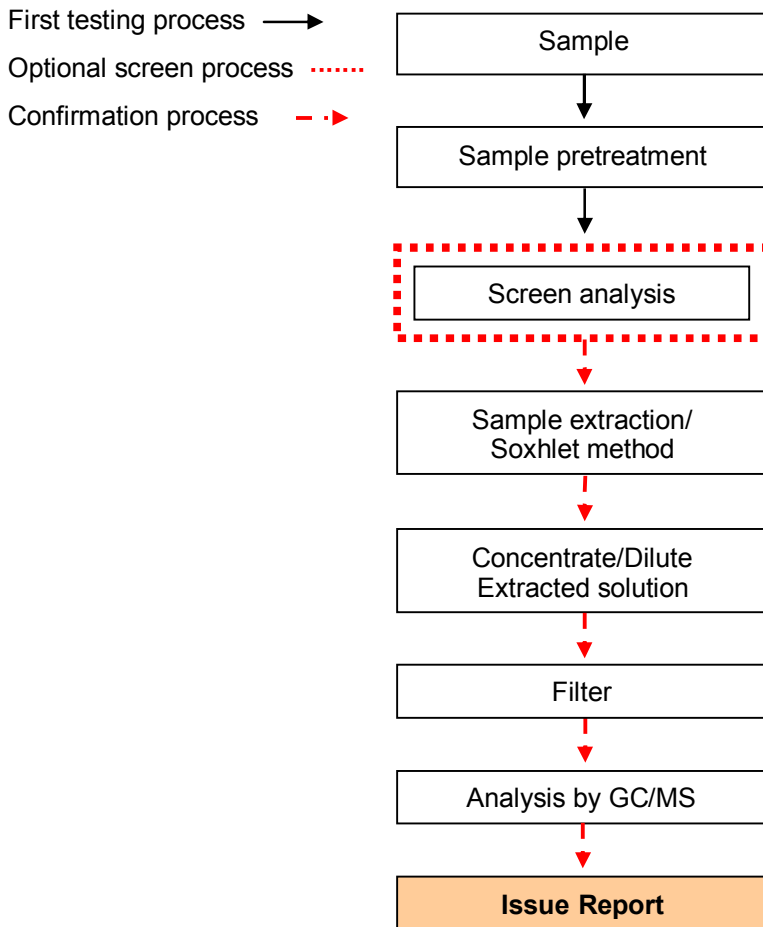
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SHENMAO TECHNOLOGY INC.
 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN
 COUNTY 328, TAIWAN



PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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SHENMAO TECHNOLOGY INC.
 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN
 COUNTY 328, TAIWAN



** End of Report **

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Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE,
KAOHSIUNG, TAIWAN, R. O. C

Report No. : KA/2007/C2817R3
Date : 2008/02/12
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TEST FOR: SUMITOMO METAL MINING ASIA PACIFIC PTE LTD.
(SMMAP GROUP CORPORATE HEADQUARTER)35/41 KALLANG
PLACE,SINGAPORE 339163.



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : LEAD FRAME
Style/Item No. : C7025
Color : SILVER+COPPER RED
Sample Receiving Date : 2007/12/27
Testing Period : 2007/12/27 TO 2008/2/12

=====
Test Result(s) : - Please see the next page(s) -


Katherine Ho / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Result(s)

PART NAME NO.1 : LEAD FRAME

Test Item (s)	Unit	Method	MDL	Result
				No. 1
Cadmium (Cd)	mg/kg	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.
Cadmium (Cd)	mg/kg	With reference to IEC 62321, ED.1 (111/54/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.	2	n.d.
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.	See Note 5	Negative
Mercury (Hg)	mg/kg	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321, ED.1 (111/54/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321, ED.1 (111/54/CDV). Determination of Lead by ICP-AES.	2	n.d.
Arsenic (As)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Beryllium (Be)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.

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TW6308867

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Bismuth (Bi)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Selenium (Se)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Mirex (CAS NO.: 002385-85-5)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/ECD.	4	n.d.
Formaldehyde (CAS NO.: 000050-00-0)	mg/kg	With reference to DIN 53315. Analysis was performed by HPLC/DAD.	3	n.d.
Chlorinated Paraffin (C10~C13) (CAS NO.: 010871-26-2)	%	With reference to US EPA 3540C. Analysis was performed by GC/ECD.	0.01	n.d.
PCBs (Polychlorinated Biphenyls) (CAS NO.: 001336-36-3)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/ECD.	0.5	n.d.
Polychlorinated Naphthalene	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	5	n.d.
PCTs (Polychlorinated Terphenyls)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	0.5	n.d.
PVC (CAS NO.: 9002-86-2)	**	Analysis was performed by FTIR/ATR and FLAME Test.	-	Negative
TBBP-A (CAS NO.: 000079-94-7)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	10	n.d.
Sum of PBBs			-	n.d.
Monobromobiphenyl			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.
	mg/kg	With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.		

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TW6308866

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Sum of PBDEs (Mono to Nona)(Note 4)	mg/kg	With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.	-	n.d.
Monobromobiphenyl ether			5	n.d.
Dibromobiphenyl ether			5	n.d.
Tribromobiphenyl ether			5	n.d.
Tetrabromobiphenyl ether			5	n.d.
Pentabromobiphenyl ether			5	n.d.
Hexabromobiphenyl ether			5	n.d.
Heptabromobiphenyl ether			5	n.d.
Octabromobiphenyl ether			5	n.d.
Nonabromobiphenyl ether			5	n.d.
Decabromobiphenyl ether			5	n.d.
Sum of PBDEs (Mono to Deca)			-	n.d.
Sum of PBBs			mg/kg	With reference to IEC 62321, ED.1 (111/54/CDV). Determination of PBBs and PBDEs by GC/MS.
Monobromobiphenyl	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.		
Sum of PBDEs (Mono to Nona)(Note 4)	mg/kg	With reference to IEC 62321, ED.1 (111/54/CDV). Determination of PBBs and PBDEs by GC/MS.	-	n.d.
Monobromodiphenyl ether			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.
Sum of PBDEs (Mono to Deca)	-	n.d.		

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TW6308865

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Asbestos	---	---	---	---
Anthrophyllite (CAS NO.017068-78-9)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Crocidolite (CAS NO.012001-28-4)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Amosite (CAS NO.012172-73-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Tremolite (CAS NO.014567-73-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Chrysotile (CAS NO.012001-29-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Actinolite (CAS NO.013768-00-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Phthalates	---	---	---	---
DBP(Di-butyl phthalate) (CAS No.000084-74-2)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	0.003	n.d.
DEHP(Di-(2-ethylhexyl phthalate)) (CAS No.000117-81-7)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	0.003	n.d.
DIDP(Di-isodecyl phthalate) (CAS No.026761-40-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	0.003	n.d.
DINP(Di-isononyl phthalate) (CAS No.028553-12-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	0.003	n.d.
BBP(Benzyl butyl phthalate) (CAS No.000085-68-7)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	0.003	n.d.
DNOP(Di-n-octyl phthalate) (CAS No.000117-84-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	0.003	n.d.
Organic-TIN compounds	---	---	---	---
Tributyl Tin(TBT) (CAS NO.: 000688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
Triphenyl Tin(TphT) (CAS NO.: 000668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.

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TW6308864

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
PERFLUOROCARBON(PFC)	---	---	---	---
F14	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Fluorocarbon 116	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Freon 218	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Decafluorobutane	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Freon C 318	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Perfluoro-1-butene	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Perfluoroisobutene	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
1,4-Dihydrooctafluorobutane	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Nonafluoro-2-(trifluoromethyl)butane	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Perfluoro-n-pentane	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
2-Perfluoromethylpentane	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.

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TW6308863

Test Report

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Perfluorohexane	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
CFCs(Chlorofluorocarbons) & HALON	---	---	---	---
Chlorofluorocarbon-11 (CAS NO.: 000075-69-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-12 (CAS NO.: 000075-71-8)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-113 (CAS NO.: 000076-13-1)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-114 (CAS NO.: 000076-14-2)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-115 (CAS NO.: 000076-15-3)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-13 (CAS NO.: 000075-72-9)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-111 (CAS NO.: 000354-56-3)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-112 (CAS NO.: 000076-12-0)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-211 (CAS NO.: 135401-87-5)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-212 (CAS NO.: 076564-99-3)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-213 (CAS NO.: 060285-54-3)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.

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TW6308862

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Chlorofluorocarbon-214 (CAS NO.: 002268-46-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-215 (CAS NO.: 000076-17-5)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-216 (CAS NO.: 001652-80-8)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Chlorofluorocarbon-217 (CAS NO.: 000422-86-6)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HALON-1211	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HALON-1301	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HALON-2402	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HCFC's (Hydrogenated chlorofluorocarbons)	---	---	---	---
Hydrochlorofluorocarbon-21 (CAS NO.: 000075-43-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-22 (CAS NO.: 000075-45-6)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-31 (CAS NO.: 000593-70-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-121 (CAS NO.: 130879-71-9)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.

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TW6308861

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Hydrochlorofluorocarbon-122 (CAS NO.: 041834-16-6)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-123 (CAS NO.: 034077-87-7)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-124 (CAS NO.: 063938-10-3)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-131 (CAS NO.: 134237-34-6)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-132 (CAS NO.: 025915-78-0)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-133 (CAS NO.: 001330-45-6)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-141 (CAS NO.: 025167-88-8)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-141b (CAS NO.: 001717-00-6)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-142 (CAS NO.: 025497-29-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-142b (CAS NO.: 000075-68-3)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-151 (CAS NO.: 001615-75-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-221 (CAS NO.: 134237-35-7)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.

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TW6308860

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Hydrochlorofluorocarbon-222 (CAS NO.: 134237-36-8)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-223 (CAS NO.: 134237-37-9)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-224 (CAS NO.: 134237-38-0)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-225 (CAS NO.: 127564-92-5)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-225ca (CAS NO.: 000422-56-0)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-225cb (CAS NO.: 000507-55-1)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-226 (CAS NO.: 134308-72-8)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-231 (CAS NO.: 134190-48-0)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-232 (CAS NO.: 134237-39-1)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-233 (CAS NO.: 134237-40-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-234 (CAS NO.: 127564-83-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-235 (CAS NO.: 134237-83-5)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.

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TW6308859

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Hydrochlorofluorocarbon-241 (CAS NO.: 134190-49-1)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-242 (CAS NO.: 134237-42-6)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-243 (CAS NO.: 134237-43-7)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-244 (CAS NO.: 134190-50-4)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-251 (CAS NO.: 134190-51-5)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-252 (CAS NO.: 134190-52-6)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-253 (CAS NO.: 134237-44-8)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-261 (CAS NO.: 134237-45-9)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-262 (CAS NO.: 134190-53-7)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Hydrochlorofluorocarbon-271 (CAS NO.: 134190-54-8)	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC	---	---	---	---
HBFC-21B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-22B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.

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TW6308858

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
HBFC-31B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-121B4	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-122B3	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-123B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-124B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-131B3	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-132B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-133B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-141B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-142B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-151B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-221B6	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.

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TW 6308857

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
HBFC-222B5	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-223B4	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-224B3	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-225B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-226B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-231B5	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-232B4	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-233B3	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-234B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-235B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-241B4	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-242B3	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.

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TW6308856

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
HBFC-243B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-244B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-251B3	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-252B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-253B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-261B2	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-262B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
HBFC-271B1	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
Bromomethane	mg/kg	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	n.d.
AZO	---	---	---	---
1):4-AMINODIPHENYL (CAS NO.92-67-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
2):BENZIDINE (CAS NO.92-87-5)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
3):4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
4):2-NAPHTHYLAMINE (CAS NO.91-59-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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TW6308855

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
5):O-AMINO-AZOTOLUENE (CAS NO.97-56-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
6):2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
7):P-CHLOROANILINE (CAS NO.106-47-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
8):2,4-DIAMINOANISOLE (CAS NO.615-05-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
9):4,4-DIAMINODIPHENYLMETHANE (CAS NO.101-77-9)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
10):3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
11):3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
12):3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
13):3,3-DIMETHYL-4,4-DIAMINODIPHENYLMETHA (CAS NO.838-88-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
14):P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS NO.120-71-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
15):4,4-METHYLENE-BIS-(2-CHLORANILINE) (CAS NO.101-14-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
16):4,4-OXYDIANILINE (CAS NO.101-80-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
17):4,4-THIODIANILINE (CAS NO.139-65-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
18):O-TOLUIDINE (CAS NO.95-53-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
19):2-4-TOLUYLENDIAMINE (CAS NO.95-80-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
20):2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
21):O-ANISIDINE (CAS NO.90-04-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
22):P-AMINOAZOBENZENE (CAS NO.60-09-3)	mg/kg	With reference to LMBG 82.02-Z. Analysis was performed by GC/MS.	3	n.d.
23):2,4-XYLIDINE (CAS NO.95-68-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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TW6309062

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

Report No. : KA/2007/C2817R3
 Date : 2008/02/12
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Test Item (s)	Unit	Method	MDL	Result
				No. 1
24):2,6-XYLIDINE (CAS NO.87-62-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
Halogen	---	---	---	---
Halogen-Chlorine (Cl) (CAS NO.: 007782-50-5)	mg/kg	With reference to BS EN 14582 . Analysis was performed by IC method for Chlorine content.	50	n.d.
Halogen-Fluorine (F) (CAS NO.: 007782-41-4)	mg/kg	With reference to BS EN 14582 . Analysis was performed by IC method for Fluorine content.	50	n.d.
Halogen-Bromine (Br) (CAS NO.: 007726-95-6)	mg/kg	With reference to BS EN 14582 .Analysis was performed by IC method for Bromine content.	50	n.d.
Halogen-Iodine (I) (CAS NO.: 007553-56-2)	mg/kg	With reference to BS EN 14582 . Analysis was performed by IC method for Iodine content.	50	n.d.

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. Spot-test:
 - Negative = Absence of Cr(VI) coating / surface layer, Positive = Presence of Cr(VI) coating / surface layer;
 - (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)
 - Boiling-water-extraction:
 - Negative = Absence of Cr(VI) coating / surface layer,
 - Positive = Presence of Cr(VI) coating / surface layer the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 6. " - " = Not Regulated
 7. " --- " = Not Conducted
 8. ** = Qualitative analysis (No Unit)
 9. Negative = Undetectable / Positive = Detectable
 10. The MDL is 5ppm for the single compound of CP
 11. Amending for the 22nd Council Directive 76/769/EEC notified under document 2005/84/EC, total concentration of three compounds DEHP, DBP and BBP shall not be greater than 0.1% and total concentration of three compounds DINP, DIDP and DNOP shall not be greater than 0.1%.
 12. The Asbestos test was subcontracted to other SGS Laboratory.
 13. This test report replaces the original one KA/2007/C2817R2.
 The original test report KA/2007/C2817R2 was invalid.

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TW6309060

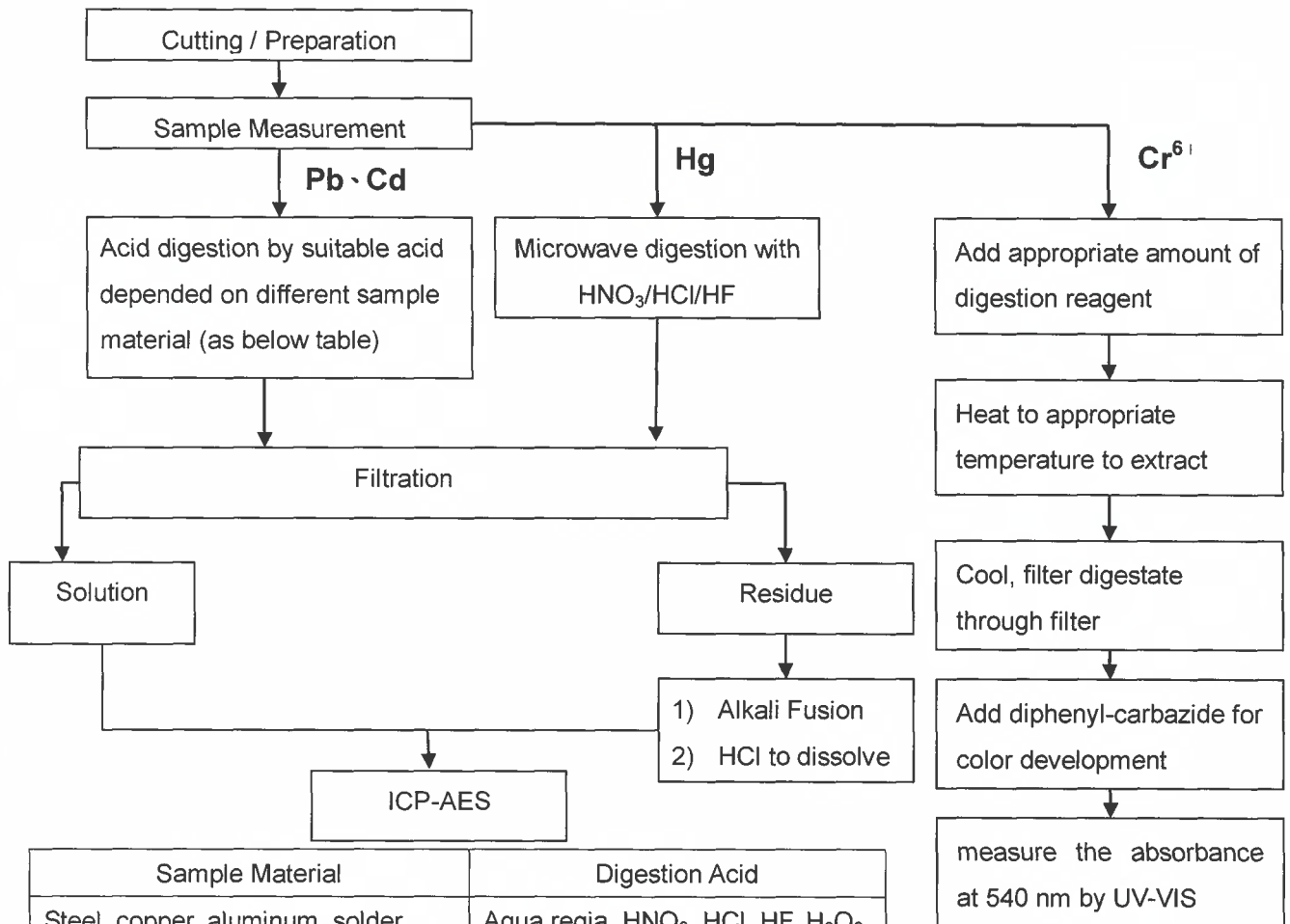
Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

Report No. : KA/2007/C2817R3
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: George Huang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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TW6308852

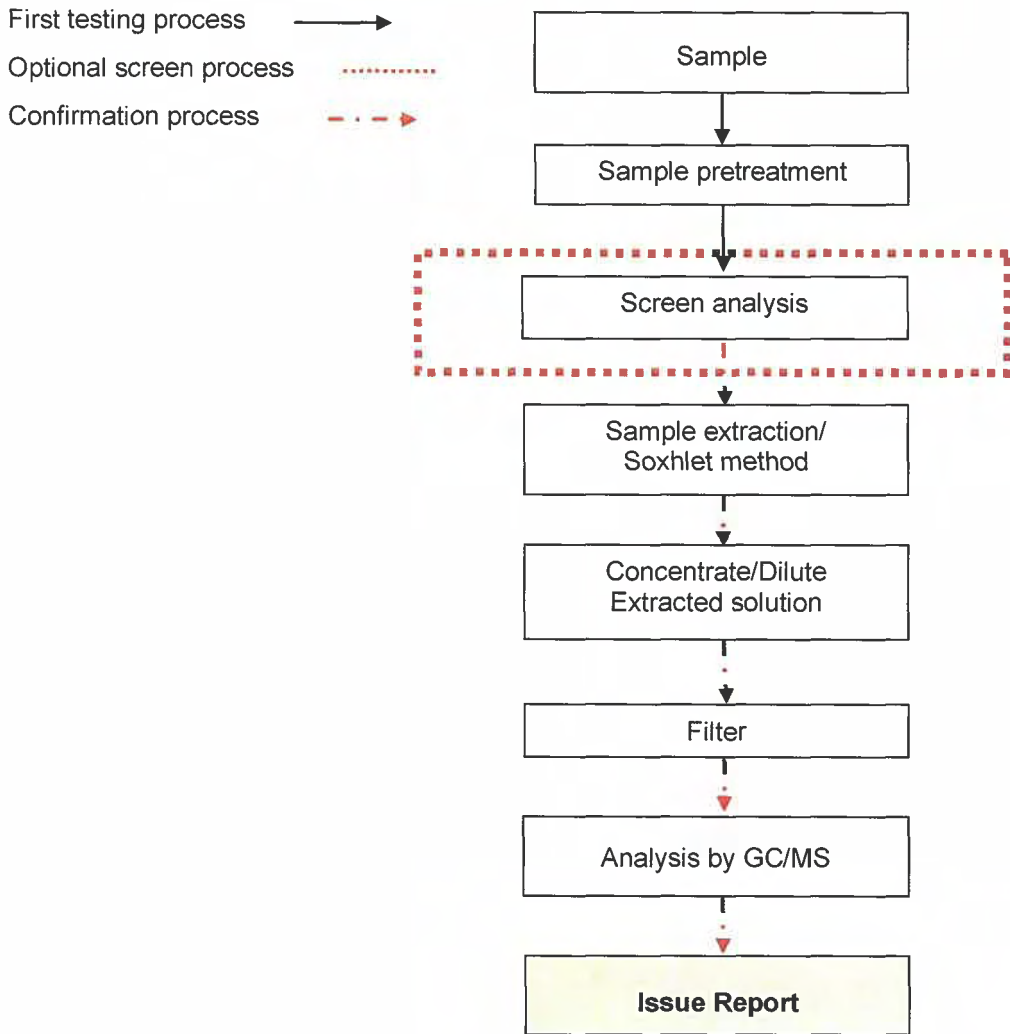
Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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PBB/PBDE analytical FLOW CHART



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TW6308851

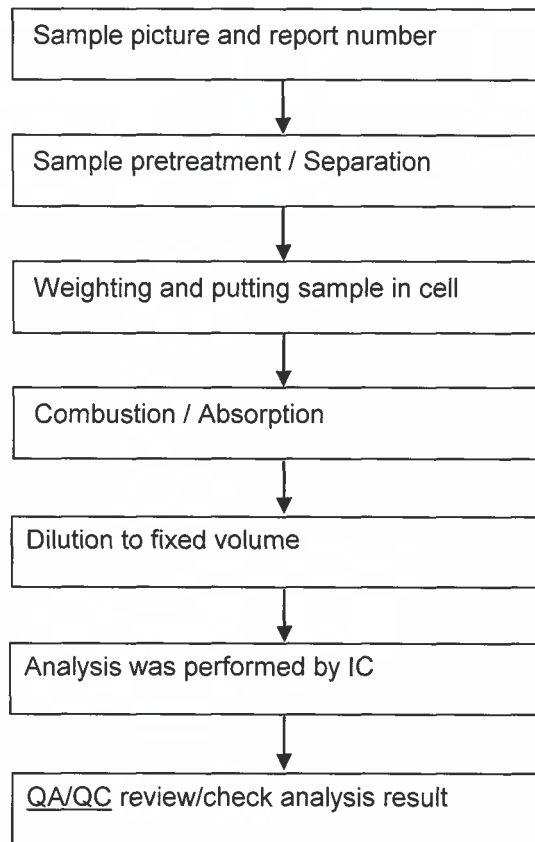
Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
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Analytical flow chart of halogen content



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TW6308850

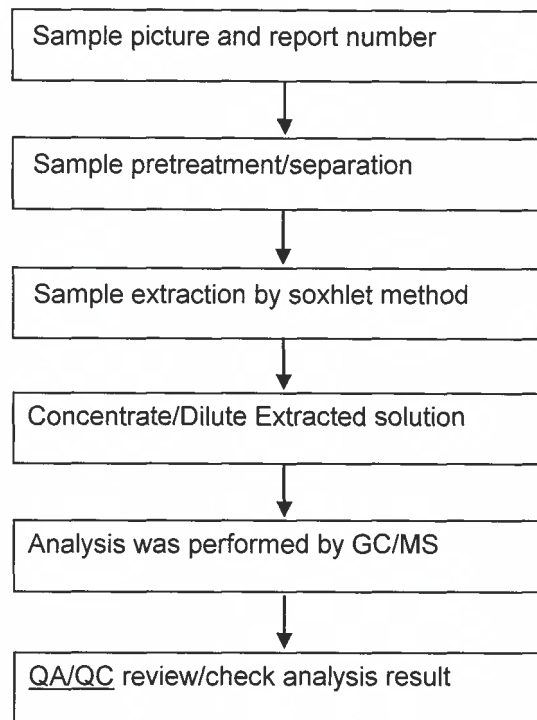
Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG,
 TAIWAN, R. O. C

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Analytical flow chart of phthalate content



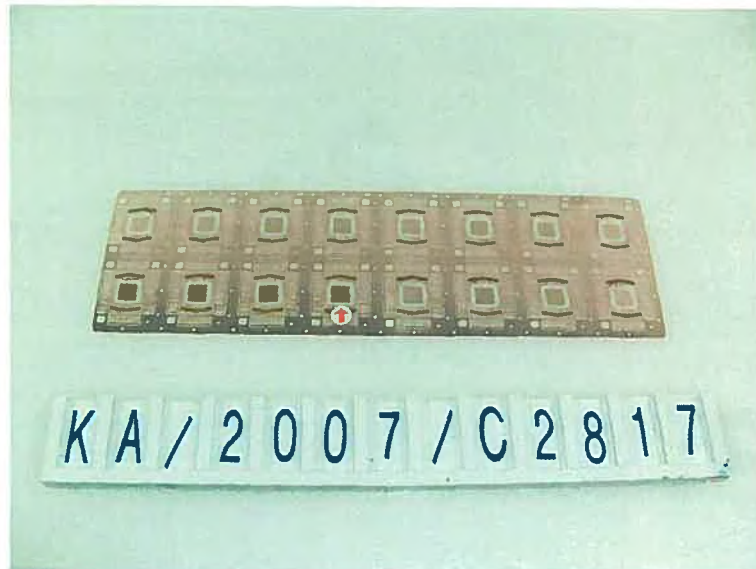
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TW6308849

Test Report

SUMIKO ELECTRONICS TAIWAN CO., LTD.
 NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE,
 KAOHSIUNG, TAIWAN, R. O. C

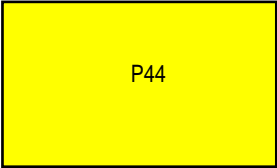
Report No. : KA/2007/C2817R3
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** End of Report **

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TW6308848



P44

Test Report

No. :KA/2008/10254

Date: 2008/01/10 Page: 1 of 5



SUMITOMO BAKELITE CO., LTD.
20-7 KIYOHARA-INDUSTRIAL PARK, UTSUNOMIYA-CITY,
TOCHIGI-PREFECTURE, 321-3231 JAPAN.

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : SILVER GRAY PASTE
Style/Item No. : CRM-1033BF-S
Color : SILVER GRAY
Sample Receiving Date : 2008/01/07
Testing Period : 2008/01/07 TO 2008/1/10

Test Requested

: In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method

: With reference to IEC 62321, Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products

: (1) With reference to IEC 62321, ED.1 (111/54/CDV)-Section 11. Determination of Cadmium by ICP-AES.
(2) With reference to IEC 62321, ED.1 (111/54/CDV)-Section 11. Determination of Lead by ICP-AES.
(3) With reference to IEC 62321, ED.1 (111/54/CDV)-Section 10. Determination of Mercury by ICP-AES.
(4) With reference to IEC 62321, Ed.1 111/54/CDV-Section 9. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
(5) With reference to IEC 62321, ED.1 (111/54/CDV)-Section 7. Determination of PBBs and PBDEs by GC/MS.

Test Result(s)

: Please refer to next page(s).

Conclusion

: Based on the performed tests on submitted samples, the result **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.



Katherine Ho / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

Test Report

No. :KA/2008/10254

Date: 2008/01/10 Page: 2 of 5



SUMITOMO BAKELITE CO., LTD.
20-7 KIYOHARA-INDUSTRIAL PARK, UTSUNOMIYA-CITY,
TOCHIGI-PREFECTURE, 321-3231 JAPAN.

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL	RoHS Limit
		No.1		
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
Sum of PBBs	(5)	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-
Sum of PBDEs (Mono to Nona)(Note 4)		n.d.	-	1000
Monobromobiphenyl ether		n.d.	5	-
Dibromobiphenyl ether		n.d.	5	-
Tribromobiphenyl ether		n.d.	5	-
Tetrabromobiphenyl ether		n.d.	5	-
Pentabromobiphenyl ether		n.d.	5	-
Hexabromobiphenyl ether		n.d.	5	-
Heptabromobiphenyl ether		n.d.	5	-
Octabromobiphenyl ether		n.d.	5	-
Nonabromobiphenyl ether	n.d.	5	-	
Decabromobiphenyl ether	n.d.	5	-	
Sum of PBDEs (Mono to Deca)	n.d.	-	-	

TEST PART DESCRIPTION:

NO.1

: SILVER GRAY PASTE

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TW6156607

Test Report

No. :KA/2008/10254

Date: 2008/01/10 Page: 3 of 5



SUMITOMO BAKELITE CO., LTD.
20-7 KIYOHARA-INDUSTRIAL PARK, UTSUNOMIYA-CITY,
TOCHIGI-PREFECTURE, 321-3231 JAPAN.

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. " - " = Not Regulated

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TW 6156608

Test Report

No. :KA/2008/10254

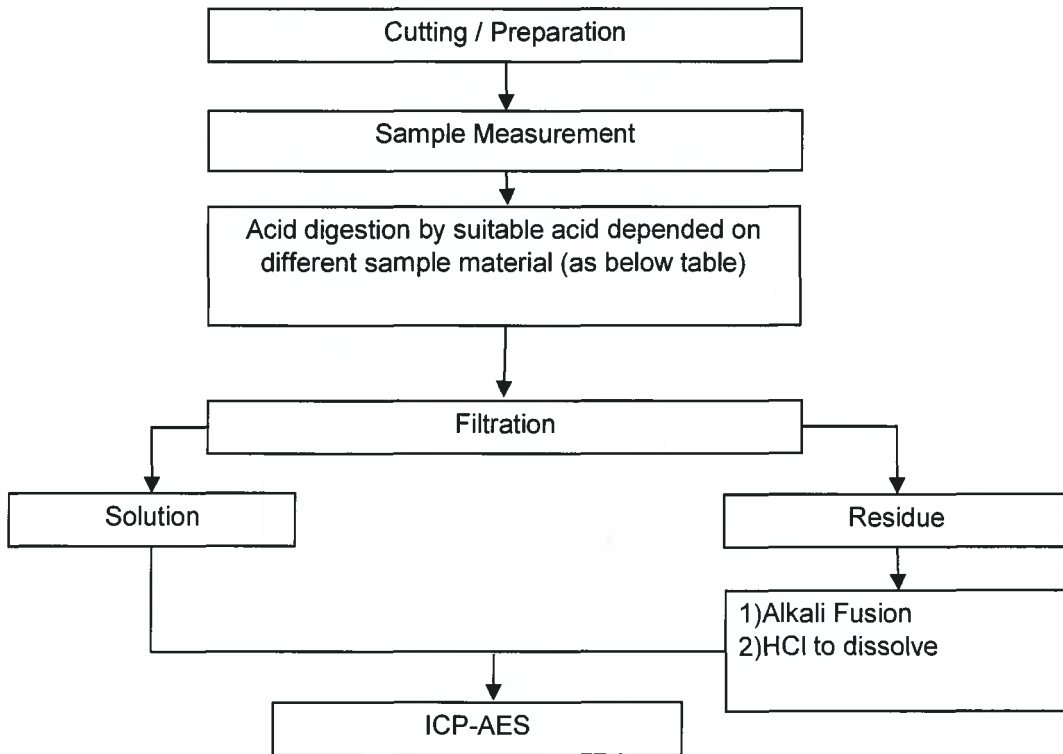
Date: 2008/01/10 Page: 4 of 5



SUMITOMO BAKELITE CO., LTD.
20-7 KIYOHARA-INDUSTRIAL PARK, UTSUNOMIYA-CITY,
TOCHIGI-PREFECTURE, 321-3231 JAPAN.

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: George Huang

Method 1: Flow Chart of Digestion for Cd · Pb analysis



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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TW6156609

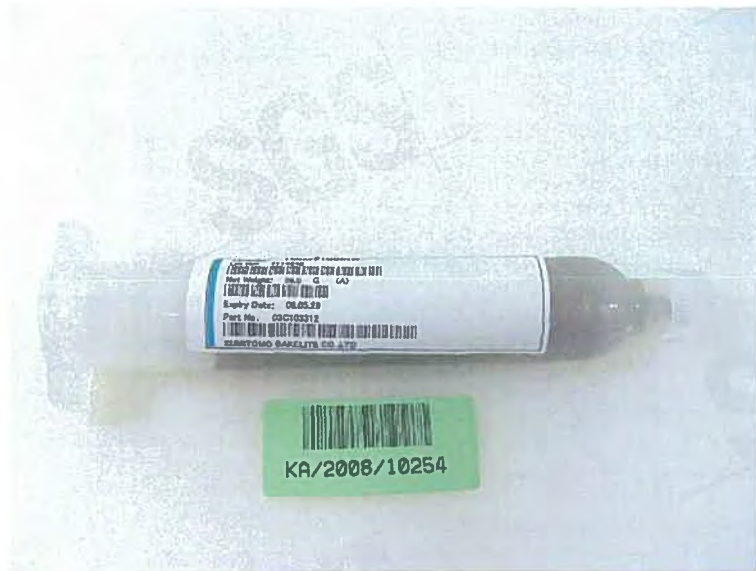
Test Report

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SUMITOMO BAKELITE CO., LTD.
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 TOCHIGI-PREFECTURE, 321-3231 JAPAN.



** End of Report **

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TW 6156628

Test Report

SUMITOMO BAKELITE \CO., LTD.
NO.1, HUASI RD., DALIAO TOWNSHIP, KAOHSIUNG COUNTY 831,
TAIWAN (R.O.C.)

Report No. : KA/2008/62610A-02
Date : 2008/07/09
Page : 1 of 9



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	EPOXY MOLDING COMPOUND
Style/Item No.	:	EME-G700L SERIES
Sample Receiving Date	:	2008/06/24
Testing Period	:	2008/06/24 TO 2008/06/30

Test Result(s) : - Please see the next page(s) -



Katherine Ho / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

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Test Report

SUMITOMO BAKELITE \CO., LTD.

NO.1, HUASI RD., DALIAO TOWNSHIP, KAOHSIUNG COUNTY 831, TAIWAN (R.O.C.)

Report No. : KA/2008/62610A-02

Date : 2008/07/09

Page : 2 of 9



Test Result(s)

PART NAME NO.1 : BLACK EPOXY MOLDING COMPOUND

Test Item (s)	Unit	Method	MDL	Result
				No. 1
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
PERFLUOROOCCTANE SULFONATES (PFOS)	mg/kg	With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
Halogen-Bromine (Br) (CAS NO.: 007726-95-6)	mg/kg	With reference to BS EN 14582 .Analysis was performed by IC method for Bromine content.	50	n.d.
Halogen-Chlorine (Cl) (CAS NO.: 007782-50-5)	mg/kg	With reference to BS EN 14582 . Analysis was performed by IC method for Chlorine content.	50	n.d.

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Test Report

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Report No. : KA/2008/62610A-02

Date : 2008/07/09

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Sum of PBBs	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.	-	n.d.
Monobromobiphenyl			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.
Sum of PBDEs (Mono to Nona)			mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.
Monobromodiphenyl ether	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.		
Sum of PBDEs (Mono to Deca)				

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. This is the additional test report of KA/2008/62610 which was issued on 2008/06/30.
Please refer to KA/2008/62610 for original information.

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Test Report

SUMITOMO BAKELITE \CO., LTD.

NO.1, HUASI RD., DALIAO TOWNSHIP, KAOHSIUNG COUNTY 831, TAIWAN (R.O.C.)

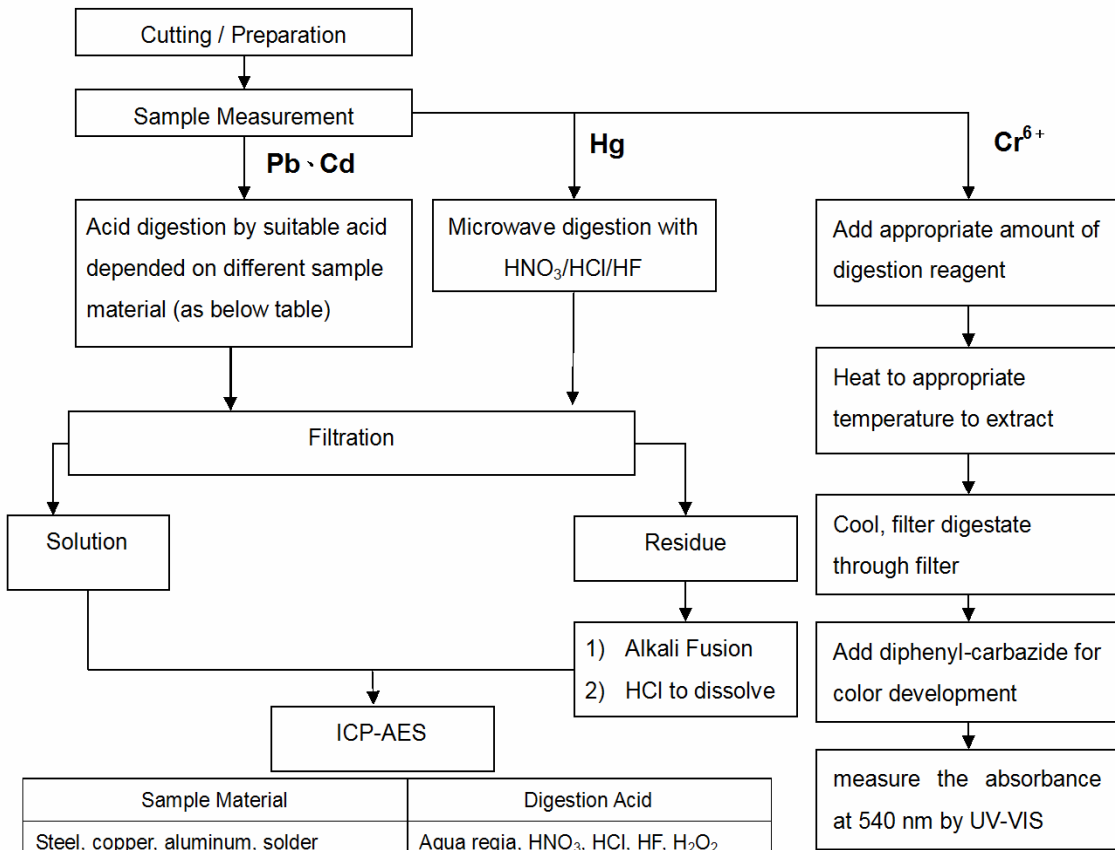
Report No. : KA/2008/62610A-02

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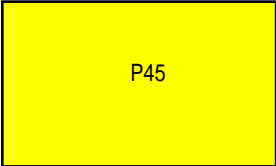
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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Report No. : KA/2008/62610A-02

Date : 2008/07/09

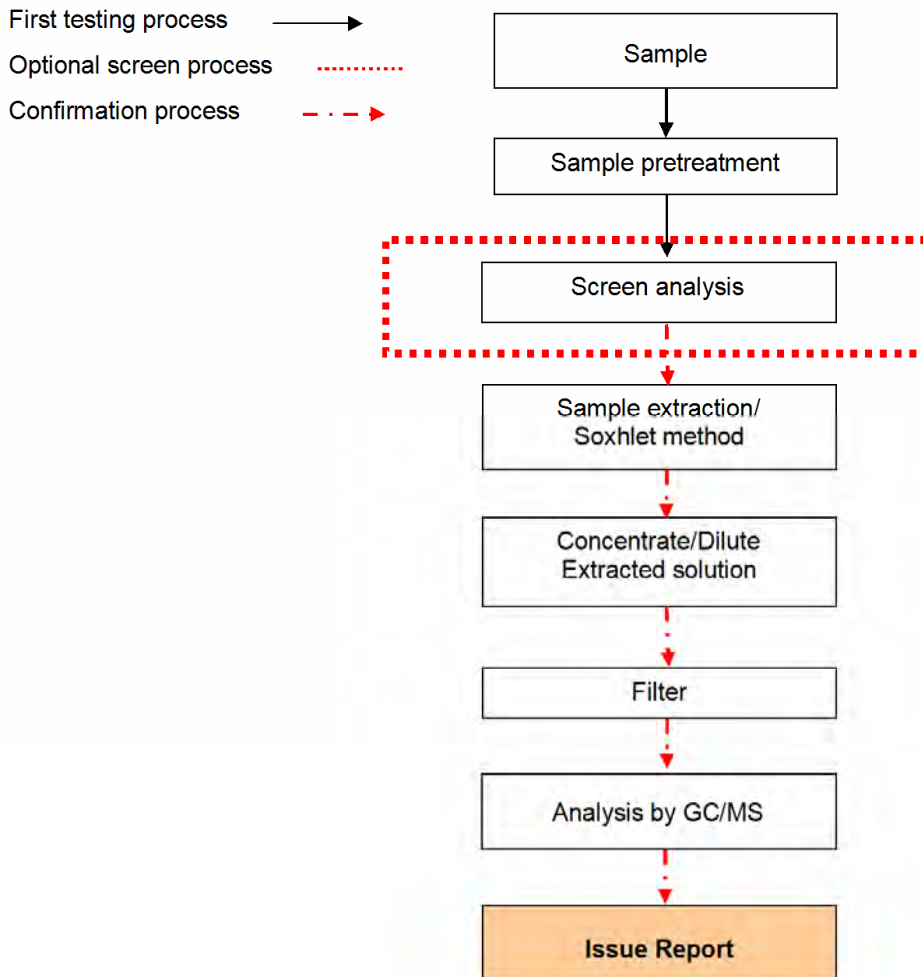
Page : 5 of 9



PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang



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Report No. : KA/2008/62610A-02

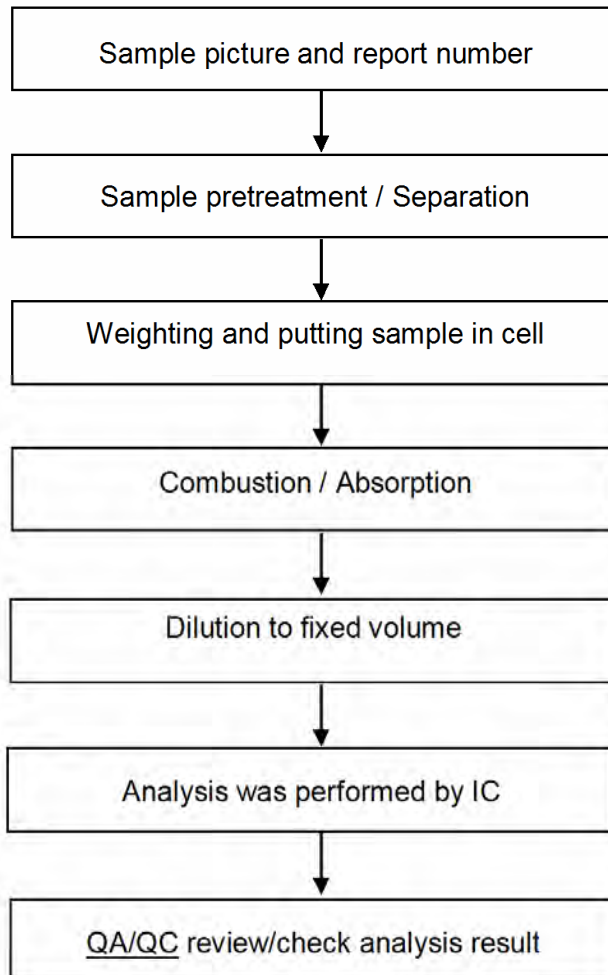
Date : 2008/07/09

Page : 6 of 9



Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Hungming Li
- 2) Name of the person in charge of measurement: Ray Chang



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Report No. : KA/2008/62610A-02

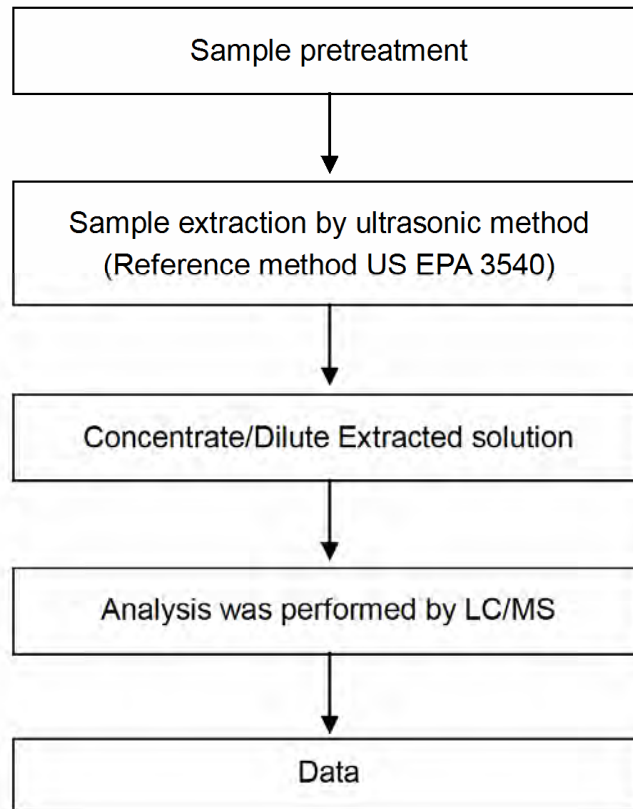
Date : 2008/07/09

Page : 7 of 9



Analytical flow chart of PFOS content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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Report No. : KA/2008/62610A-02

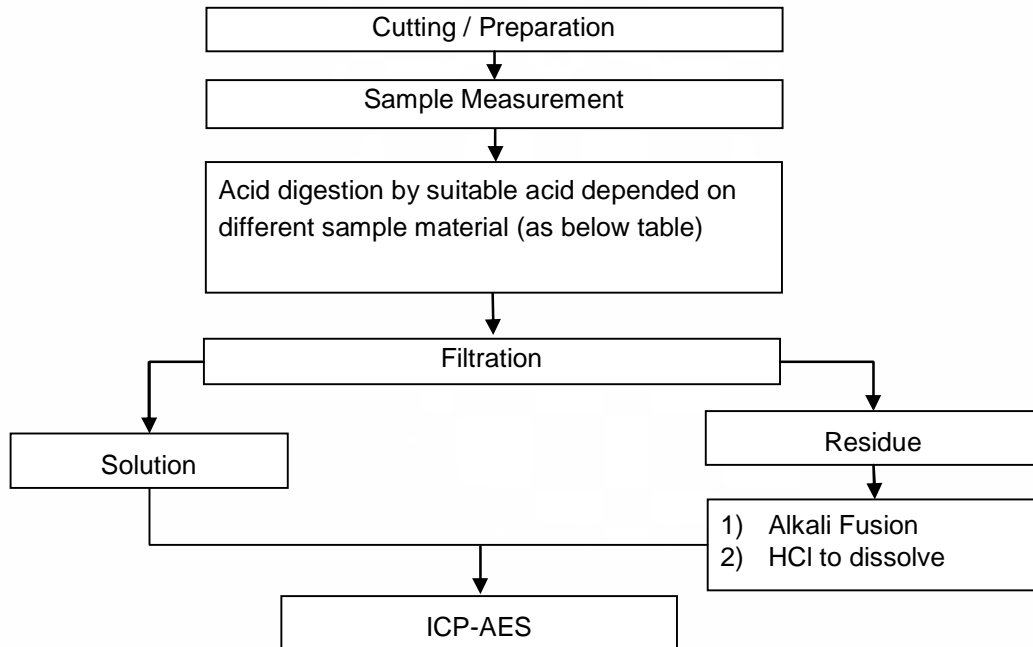
Date : 2008/07/09

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang

Flow Chart of Digestion for elements analysis



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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 NO.1, HUASI RD., DALIAO TOWNSHIP, KAOHSIUNG COUNTY 831,
 TAIWAN (R.O.C.)

Report No. : KA/2008/62610A-02
 Date : 2008/07/09
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** End of Report **

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Test Report

SUMITOMO METAL MINING CO.,LTD.
11-3,SHIMBASHI 5-CHOME,MINATO-KU,TOKYO 105-8716,JAPAN.

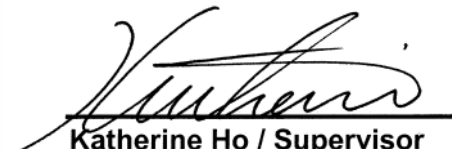
Report No. : KA/2008/B1720A-02
Date : 2008/12/04
Page : 1 of 29



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : GOLD BONDING WIRE
Style/Item No. : SGL2
Sample Receiving Date : 2008/11/24
Testing Period : 2008/11/24 TO 2008/12/4

=====
Test Result(s) : - Please see the next page(s) -



Katherine Ho / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

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11-3,SHIMBASHI 5-CHOME,MINATO-KU,TOKYO 105-8716,JAPAN.

Report No. : KA/2008/B1720A-02
Date : 2008/12/04
Page : 2 of 29



Test Result(s)

PART NAME NO.1 : GOLD BONDING WIRE

Test Item (s)	Unit	Method	MDL	Result
				No. 1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for samples by UV/Vis Spectrometry.	2	n.d.
Sum of PBBs	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.	-	n.d.
Monobromobiphenyl			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.
Sum of PBDEs			mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.
Monobromodiphenyl ether	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.		

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Test Report

SUMITOMO METAL MINING CO.,LTD.
11-3,SHIMBASHI 5-CHOME,MINATO-KU,TOKYO 105-8716,JAPAN.

Report No. : KA/2008/B1720A-02
Date : 2008/12/04
Page : 3 of 29



Test Item (s)	Unit	Method	MDL	Result
				No. 1
Beryllium (Be)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Carbon Tetrachloride	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Methyl Chloroform	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorinated Paraffin (C10~C13) (CAS NO.: 010871-26-2)	%	With reference to US EPA 3540C. Analysis was performed by GC/ECD.	0.01	n.d.
Formaldehyde (CAS NO.: 000050-00-0)	mg/kg	With reference to DIN 53315. Analysis was performed by HPLC/DAD.	3	n.d.
PCBs (Polychlorinated Biphenyls) (CAS NO.: 001336-36-3)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/ECD.	0.5	n.d.
Polychlorinated Naphthalene	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	5	n.d.
PCTs (Polychlorinated Terphenyls)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	0.5	n.d.

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11-3,SHIMBASHI 5-CHOME,MINATO-KU,TOKYO 105-8716,JAPAN.

Report No. : KA/2008/B1720A-02
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				No. 1
PERFLUOROOCCTANOIC ACID (PFOA)	mg/kg	With reference to US EPA 3540C : 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.
PERFLUOROOCCTANE SULFONATES (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
PVC (CAS NO.: 9002-86-2)	**	Analysis was performed by FTIR and FLAME Test.	-	Negative
2-(2-HYDROXY-3',5'-DI-T-BUTYLPHENYL)BENZOTRIAZOLE (CAS NO.3846-71-7)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	10	n.d.
Asbestos	---	---	---	---
Anthrophyllite (CAS NO.017068-78-9)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Crocidolite (CAS NO.012001-28-4)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Amosite (CAS NO.012172-73-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Tremolite (CAS NO.014567-73-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Chrysotile (CAS NO.012001-29-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Actinolite (CAS NO.013768-00-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
CHCs (Chlorinated hydrocarbon)	---	---	---	---
1,1,1,2-Tetrachloroethane (CAS NO.: 000630-20-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1,1-Trichloroethane (CAS NO.: 000071-55-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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1,1,2,2-Tetrachloroethane (CAS NO.: 000079-34-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1,2-Trichloroethane (CAS NO.: 000079-00-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloroethene (CAS NO.: 000075-35-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloroethane (CAS NO.: 000075-34-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloropropene (CAS NO.: 000563-58-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,2,3-Trichloropropane (CAS NO.: 000096-19-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,2-Dichloroethane (CAS NO.: 000107-06-2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,2-Dichloropropane (CAS NO.: 000078-87-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,3-Dichloropropane (CAS NO.: 000142-28-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
2,2-Dichloropropane (CAS NO.: 000594-20-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chloroethane (CAS NO.: 000075-00-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chloroform (CAS NO.: 000067-66-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chloromethane (CAS NO.: 000074-87-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Cis-1,2-Dichloroethene (CAS NO.: 000156-59-2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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				No. 1
Cis-1,3-Dichloropropene (CAS NO.: 010061-01-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hexachlorobutadiene (CAS NO.: 000087-68-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Methylene Chloride (CAS NO.: 000075-09-2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
trans-1,2-Dichloroethene (CAS NO.: 000156-60-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
trans-1,3-Dichloropropene (CAS NO.: 010061-02-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Trichloroethylene (CAS NO.: 000079-01-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrofluorcarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)	---	---	---	---
HFC-23 (CHF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-32 (CH2F2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-41 (CH3F)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-43-10mee (C5H2F10)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-125 (C2HF5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-134 (C2H2F4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-134a (CH2FCF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-143 (C2H3F3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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HFC-143a (C2H3F3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-152a (C2H4F2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-227ea (C3HF7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-236cb (CH2FCF2CF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-236fa (C3H2F6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-236ea (CHF2CHF2CF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-245ca (C3H3F5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-245fa (CHF2CH2CF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-365mfc (CF3CH2CF2CH3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
PERFLUOROCARBON(PFC)	---	---	---	---
F14	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Fluorocarbon 116	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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				No. 1
Freon 218	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Decafluorobutane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Freon C 318	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Perfluoro-1-butene	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Perfluoroisobutene	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,4-Dihydrooctafluorobutane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Nonafluoro-2-(trifluoromethyl)butane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Perfluoro-n-pentane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
2-Perfluoromethylpentane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Perfluorohexane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Organic-TIN compounds	---	---	---	---
Tributyl Tin(TBT) (CAS NO.: 000688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
Triphenyl Tin(TpHT) (CAS NO.: 000668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
Tributyl Tin Oxide(TBTO)*** (CAS NO.: 000056-35-9)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
CFCs(Chlorofluorocarbons) & HALON	---	---	---	---
Chlorofluorocarbon-11 (CAS NO.: 000075-69-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-12 (CAS NO.: 000075-71-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-113 (CAS NO.: 000076-13-1)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-114 (CAS NO.: 000076-14-2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-115 (CAS NO.: 000076-15-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-13 (CAS NO.: 000075-72-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-111 (CAS NO.: 000354-56-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Chlorofluorocarbon-112 (CAS NO.: 000076-12-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-211 (CAS NO.: 135401-87-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-212 (CAS NO.: 076564-99-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-213 (CAS NO.: 060285-54-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-214 (CAS NO.: 002268-46-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-215 (CAS NO.: 000076-17-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-216 (CAS NO.: 001652-80-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-217 (CAS NO.: 000422-86-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HALON-1211	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HALON-1301	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HALON-2402	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HCFC's (Hydrogenated chlorofluorocarbons)	---	---	---	---
Hydrochlorofluorocarbon-21 (CAS NO.: 000075-43-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-22 (CAS NO.: 000075-45-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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				No. 1
Hydrochlorofluorocarbon-31 (CAS NO.: 000593-70-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-121 (CAS NO.: 130879-71-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-122 (CAS NO.: 041834-16-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-123 (CAS NO.: 034077-87-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-124 (CAS NO.: 063938-10-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-131 (CAS NO.: 134237-34-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-132 (CAS NO.: 025915-78-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-133 (CAS NO.: 001330-45-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-141 (CAS NO.: 025167-88-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-141b (CAS NO.: 001717-00-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-142 (CAS NO.: 025497-29-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-142b (CAS NO.: 000075-68-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-151 (CAS NO.: 001615-75-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-221 (CAS NO.: 134237-35-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-222 (CAS NO.: 134237-36-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Hydrochlorofluorocarbon-223 (CAS NO.: 134237-37-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-224 (CAS NO.: 134237-38-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-225 (CAS NO.: 127564-92-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-225ca (CAS NO.: 000422-56-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-225cb (CAS NO.: 000507-55-1)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-226 (CAS NO.: 134308-72-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-231 (CAS NO.: 134190-48-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-232 (CAS NO.: 134237-39-1)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-233 (CAS NO.: 134237-40-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-234 (CAS NO.: 127564-83-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-235 (CAS NO.: 134237-83-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-241 (CAS NO.: 134190-49-1)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-242 (CAS NO.: 134237-42-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-243 (CAS NO.: 134237-43-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Test Report

SUMITOMO METAL MINING CO.,LTD.
11-3,SHIMBASHI 5-CHOME,MINATO-KU,TOKYO 105-8716,JAPAN.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Hydrochlorofluorocarbon-244 (CAS NO.: 134190-50-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-251 (CAS NO.: 134190-51-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-252 (CAS NO.: 134190-52-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-253 (CAS NO.: 134237-44-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-261 (CAS NO.: 134237-45-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-262 (CAS NO.: 134190-53-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-271 (CAS NO.: 134190-54-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC's (Hydrogenated bromofluorocarbons)	---	---	---	---
HBFC-21B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-22B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-31B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-121B4	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-122B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-123B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-124B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
HBFC-131B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-132B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-133B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-141B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-142B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-151B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-221B6	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-222B5	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-223B4	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-224B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-225B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-226B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-231B5	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-232B4	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-233B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
HBFC-234B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-235B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-241B4	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-242B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-243B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-244B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-251B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-252B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-253B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-261B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-262B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-271B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Bromomethane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
AZO	---	---	---	---
1):4-AMINODIPHENYL (CAS NO.92-67-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
2):BENZIDINE (CAS NO.92-87-5)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
3):4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
4):2-NAPHTHYLAMINE (CAS NO.91-59-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
5):O-AMINO-AZOTOLUENE (CAS NO.97-56-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
6):2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
7):P-CHLOROANILINE (CAS NO.106-47-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
8):2,4-DIAMINOANISOLE (CAS NO.615-05-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
9):4,4-DIAMINODIPHENYLMETHANE (CAS NO.101-77-9)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
10):3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
11):3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
12):3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
13):3,3-DIMETHYL-4,4-DIAMINODIPHENYLMETHA (CAS NO.838-88-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
14):P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS NO.120-71-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
15):4,4-METHYLENE-BIS-(2-CHLORANILINE) (CAS NO.101-14-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
16):4,4-OXYDIANILINE (CAS NO.101-80-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
17):4,4-THIODIANILINE (CAS NO.139-65-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
18):O-TOLUIDINE (CAS NO.95-53-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
19):2-4-TOLUYLENDIAMINE (CAS NO.95-80-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
20):2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
21):O-ANISIDINE (CAS NO.90-04-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
22):P-AMINOAZOBENZENE (CAS NO.60-09-3)	mg/kg	With reference to LMBG 82.02-Z. Analysis was performed by GC/MS.	3	n.d.
23):2,4-XYLIDINE (CAS NO.95-68-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
24):2,6-XYLIDINE (CAS NO.87-62-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582 . Analysis was performed by IC method for Chlorine content.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582 .Analysis was performed by IC method for Bromine content.	50	n.d.

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- Note :
1. mg/kg = ppm; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008
 5. " - " = Not Regulated
 6. " --- " = Not Conducted
 7. * = Results shown are of the adjusted analytical results
 8. ** = Qualitative analysis (No Unit)
 9. Negative = Undetectable / Positive = Detectable
 10. The MDL is 5ppm for the single compound of CP
 11. ***The substance is calculated by the test results of Tributyl Tin or heavy metal (Ex. Antimony 、 Beryllium 、 Silicon 、 Zinc 、 Cobalt or Phosphorus respectively). The MDL is evaluated for Tributyl Tin or heavy metal (Ex. Antimony 、 Beryllium 、 Silicon 、 Zinc 、 Cobalt or Phosphorus respectively.)
 12. Amending for the 22nd Council Directive 76/769/EEC notified under document 2005/84/EC, total concentration of three compounds DEHP, DBP and BBP shall not be greater than 0.1% and total concentration of three compounds DINP, DIDP and DNOP shall not be greater than 0.1%.
 13. Brand and model of FTIR: VARIAN 3100
 14. The Asbestos test was subcontracted to other SGS Laboratory.
 15. Normal* : Test result is within Background (Background = 0.04~0.08 μ Sv/ hour)
 16. This is the additional test report of KA/2008/B1720 which was issued on 2008/12/04.
Please refer to KA/2008/B1720 for original information.

PFOS Reference Information : 2006/122/EC (Directive 2006/122/EC)

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0,1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1 μ g/m² of the coated material.

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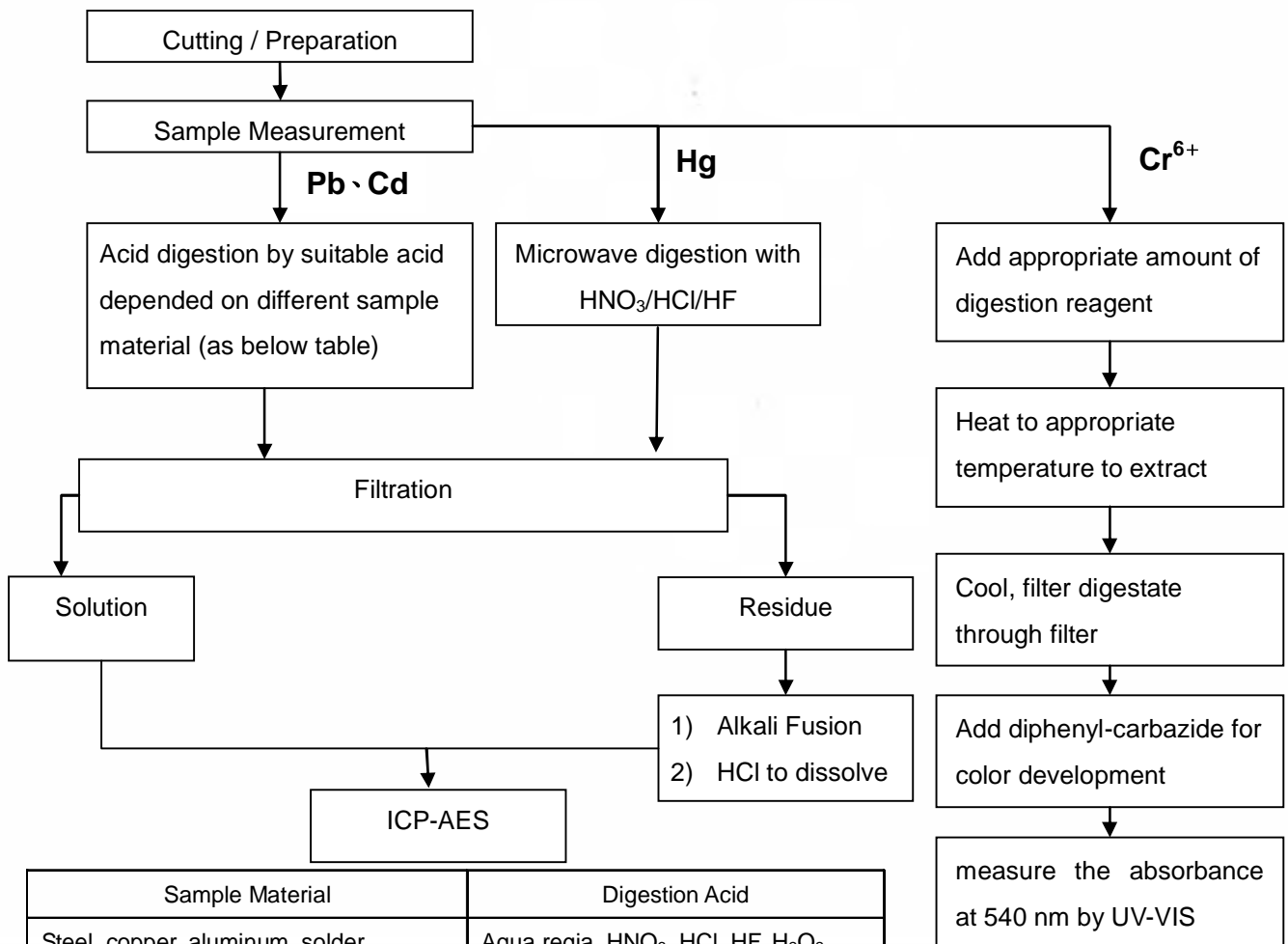
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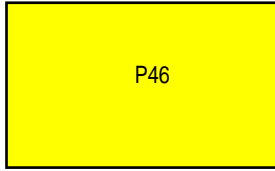
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

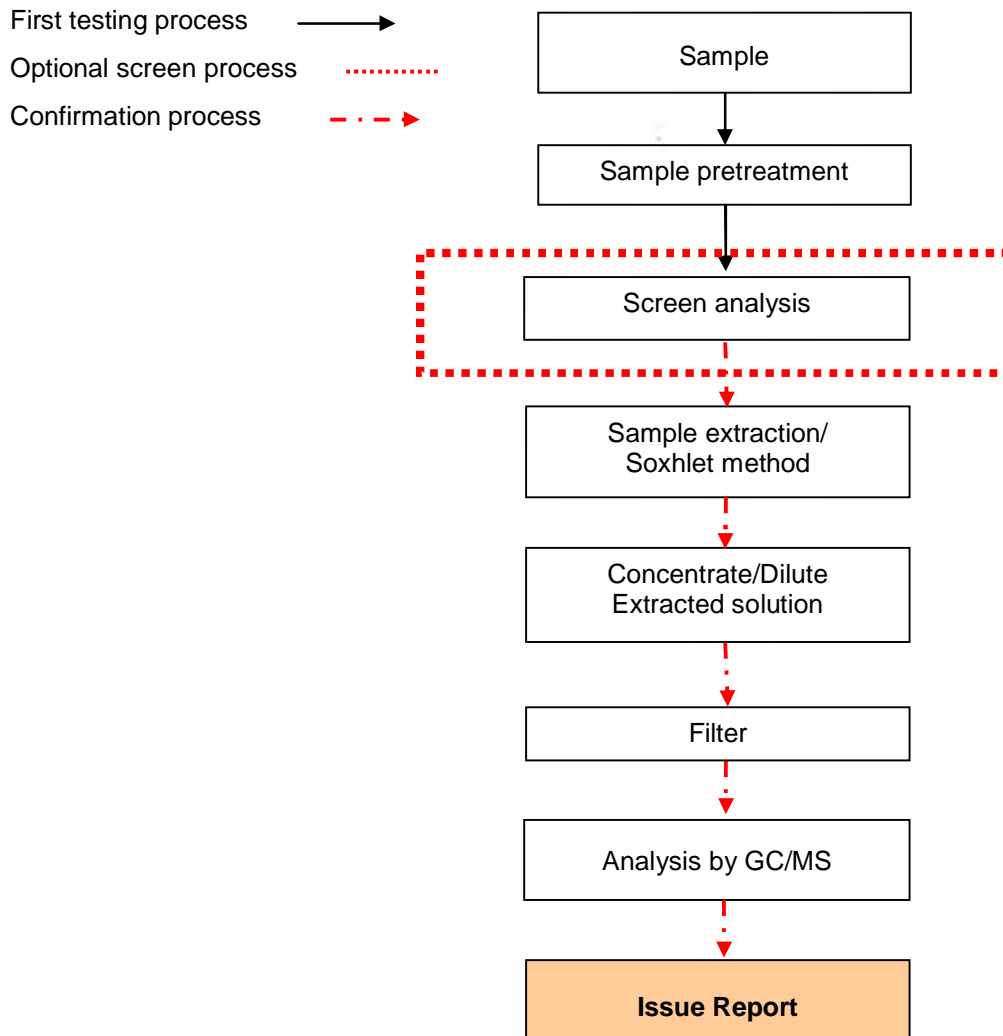
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PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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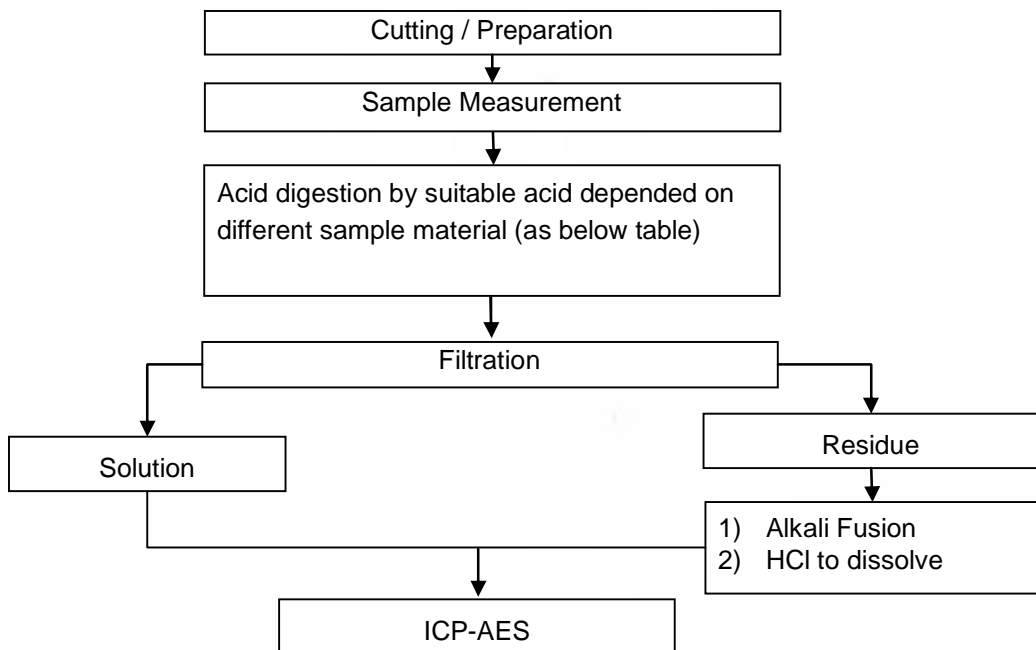
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang

Flow Chart of Digestion for elements analysis



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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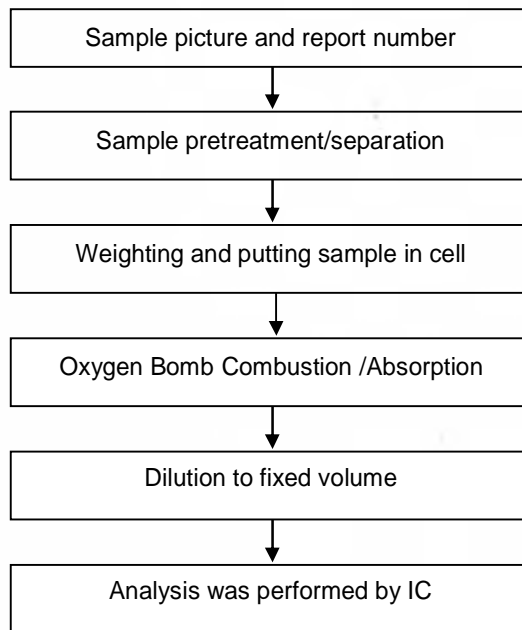
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Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Hungming Li
- 2) Name of the person in charge of measurement: Ray Chang



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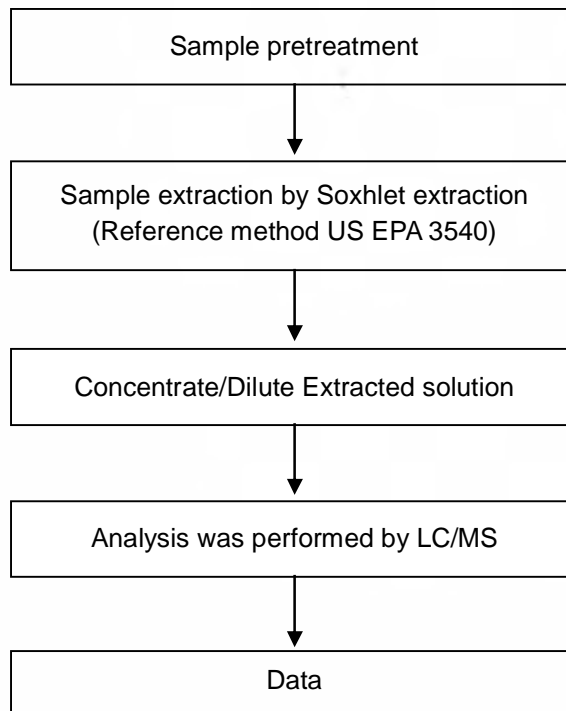
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Analytical flow chart of PFOA/PFOS content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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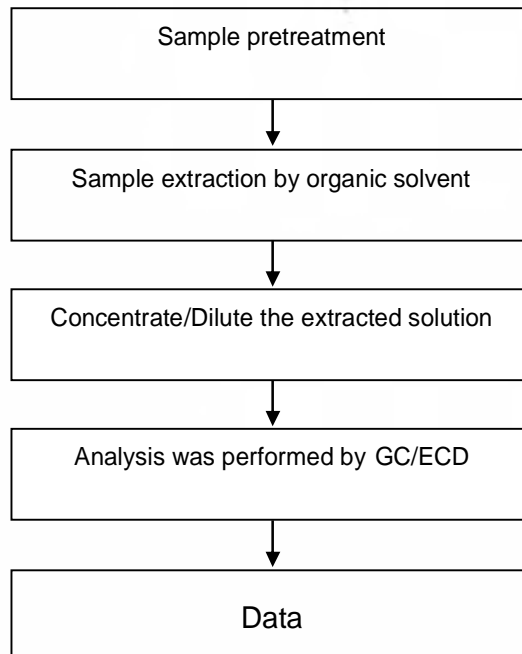
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Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang

- Reference method: USEPA 3540
- Test Items: PCBs, CP, MCCC



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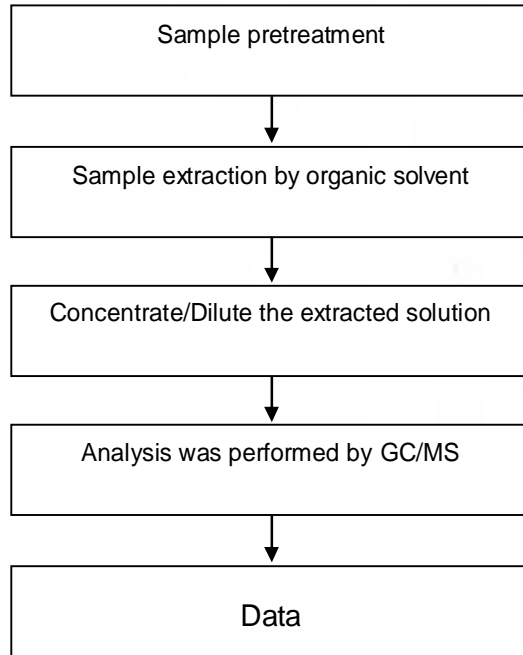
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Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Anson Tsao
 - 2) Name of the person in charge of measurement: Ray Chang
- Reference method: US EPA 8270D, US EPA 3540
 - Test Items: PCNs, PCTs, Mirex



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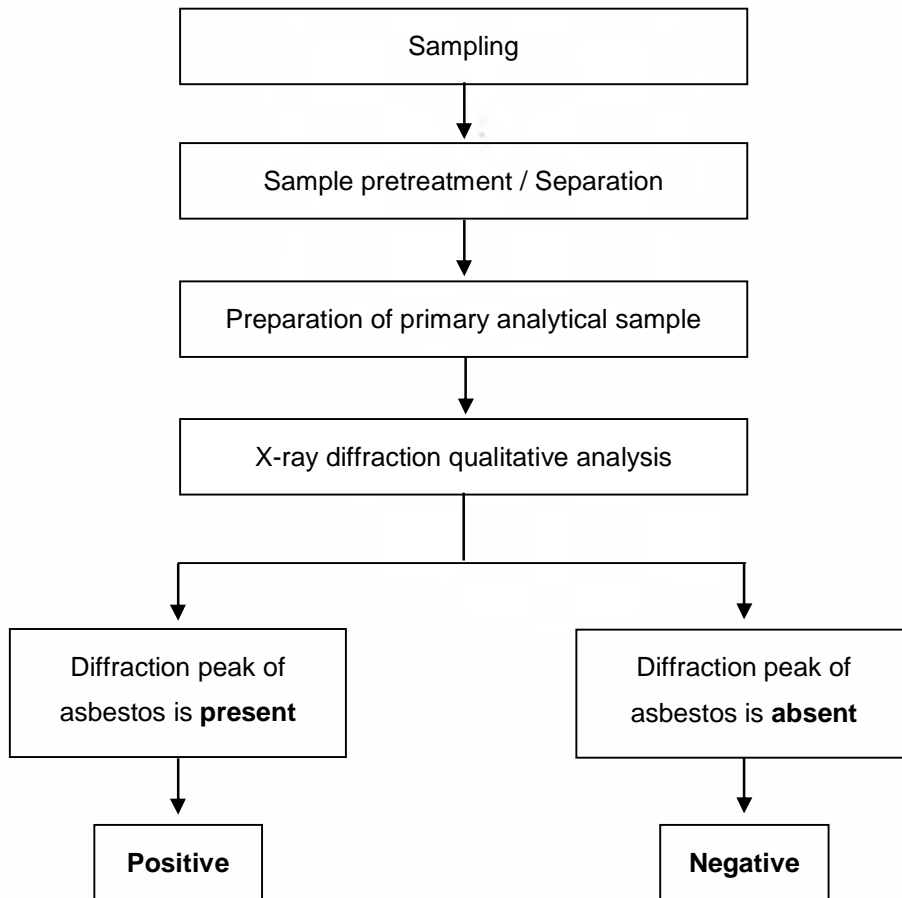
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Analysis flow chart for determination of Asbestos

- 1) Name of the person who made measurement: Victor Kao
- 2) Name of the person in charge of measurement: James Lu



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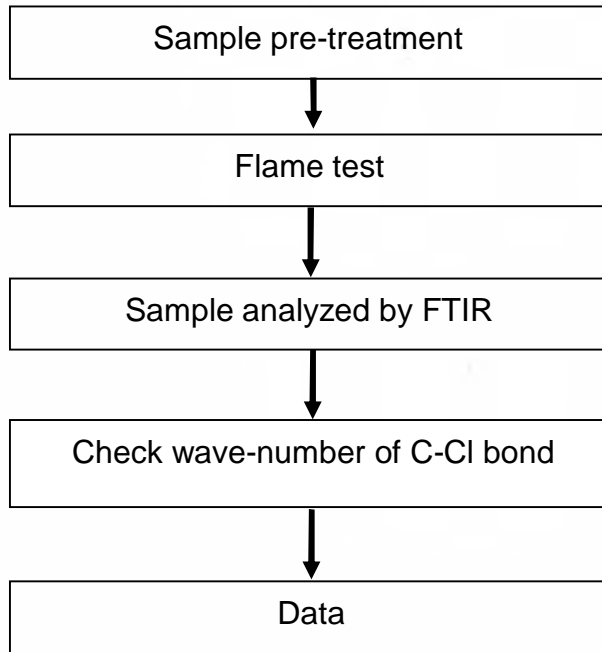
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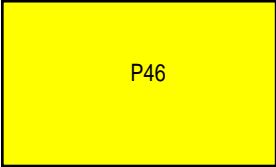
Analysis flow chart for determination of PVC in polymer material

- 1) Name of the person who made measurement: Joyce Chiu
- 2) Name of the person in charge of measurement: Roger Lin



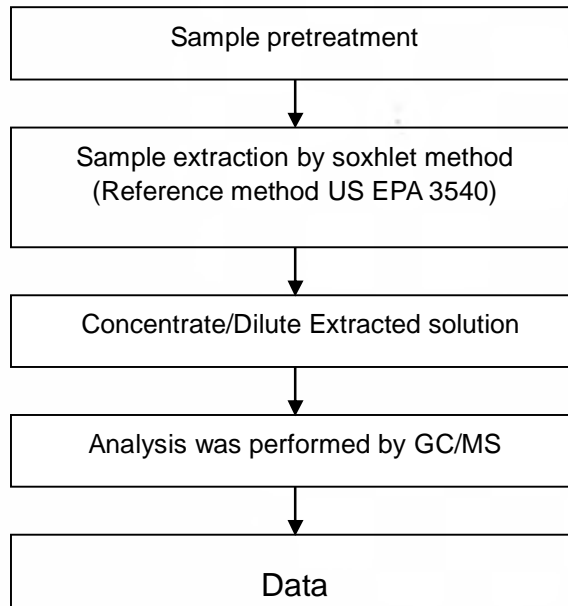
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Analytical flow chart of benzotriazole content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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** End of Report **

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