	_								tes	st re	sult	(uni	t: PP	M)
Item	Description		Specifications	Qty	supplier	test report No.	date of issue	laboratr y	Cd	Pb	Hg	Cr/VI	PBB	PBDE
			ROHS 0603 33PF/k	2		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
1	SMD C	Capacitor	ROHS 0603 103K	4	Yuan mao	RTO7R-6593-001(attached P1)	2007-11-16	Intertek	ND	ND	ND	ND	ND	ND
1	SIVID	capacitoi	ROHS 0603 104K	1	Tuan mao	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
			ROHS 0603 6.8 Ω ±0.5%	8		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 $\Omega \pm 0.5\%$	3	C	CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 1.5k $\Omega \pm 0.5\%$	1		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
2	Res	sistor	ROHS 0603 4.7k $\Omega \pm 0.5\%$	2	Shi meng	CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 10 k $\Omega \pm 0.5\%$	2		CANEC0800932401 (attached P2)	2008-03-20	SGS	ND	ND	ND	ND	ND	ND
			ROHS 0603 1 M $\Omega \pm 0.5\%$	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
	1	Moulding gold green				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
3	Capacitor	Manganese nitrate	ROHS 47UF 1210	2	Tai suo	CE/2008/21494 (attached P6)	2008-02-20	SGS	ND	ND	ND	ND	ND	ND

							date of		test result (unit: PPM)					
Item	Descr	ription	Specifications	Qty	supplier	test report No.	issue	laboratr y	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 oscillat	or	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 56 Ω 0805	3	Tai suo	CE/2008/34047 (attached P14)	2008-03-19	SGS	ND	ND	ND	ND	ND	ND
0	Magnetic bead		ROHS 600 Ω 0603	1	Tai Suo	CE/2008/34047 (attached P14)	2008-03-19	SGS	ND	ND	ND	ND	ND	ND
7	LED	LAMP	ROHS Ф3	2	Hong jin	GZ0711179980A/CHEM(attachedP15)	2008-4-16	SGS	ND	6	ND	ND	ND	ND
,	LED	SMD LED	KOHS #3	2	r long jin	CANEC0802822801 (attached P16)	2008-6-7	SGS	ND	ND	ND	ND	ND	ND
8	PC	СВ	ROHS 36*36*1.2 mm	1	Hua xing	CANEC0801059201 (attached P17)	2008-03-24	SGS	ND	15	ND	ND	ND	ND
9	EX	/A	ROHS Φ15*0.5mm BK	2	Jin run he	CANEC0700699901(attached P18)	2007-11-14	SGS	ND	6	ND	ND	ND	ND
9	E	/A	ROHS 120*3.0*1.5mm	2	Jili luli lie	CANEC0700699901(attached P18)	2007-11-14	SGS	ND	6	ND	ND	ND	ND
10	Pla	stic	ROHS ABS	9	S5	KA/2008/10040 (attached P19)	2008-01-09	SGS	ND	ND	ND	ND	ND	ND
11	Lamp	shade	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	Speak	er unit	ROHS 1.2" 8 Ω 3w	2	Yong sheng	SZHH00303727(attachedP22)	2008-10-06	Intertek	ND	ND	ND	ND	ND	ND

									t	est re	esult	(unit:	PPM))
Item	Des	scription	Specifications	Qty	supplier	test report No.	date of issue	laboratr y	Cd	Pb	Hg	Cr/V I	РВВ	PBDE
		Brassy metal				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
14	USB wire	Color metal	ROHS ⊕2.9mm		Ding tai	GZ0707098675/CHEM(attachedP27)	2007-07-18	SGS	ND	ND	ND	ND	ND	ND
		Metal wire Metal terminal			GZ0701009563A/CHEM(attachedP28)	2007-03-06	SGS	ND	7	ND	ND	ND	ND	
					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
		Brass				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
15	Switch	Phenolic resin	ROHS	1	Hao yu	GZ0707105752/CHEM(attachedP35)	2007-08-01	SGS	ND	ND	ND	ND	ND	ND
. •	S Wilei	Plastic		·	. ido ya	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	S	Spring	ROHS Ф 0.4*OD9.0* L9.0*6N	1	Ye tong	CANEC0802581702(attachedP39)	2008-05-27	SGS	ND	ND	ND	ND	ND	ND
17	Navig	gation steel	ROHS 138*13.1*1.5mm	1	Wei feng	GZSCR0809103587/LP(attachedP40)	2008-09-10	SGS	ND	ND	ND	ND	ND	ND

							date of		test result (unit: PPM)					
Item	D	escription	Specifications	Qty	supplier	test report No.	issue	laboratr y	Cd	Pb	Hg	Cr/VI	PBB	PBDE
			ROHS KA1.3*8.0mm Ф2.4mm W	6		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
			ROHS PM3.0*6.0mm Ф5.0mm W	1		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
18	Screw R R R R		ROHS KA2.3*8.0mm Ф4.0mm W	2	Jin ji li	CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
10			ROHS PA2.3*8.0mm Ф3.6mm W	6		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
			ROHS PWA2.3*6.0mm Ф6.0mm BK	1		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
			ROHS PA2.6*8.0mm Ф4.0mm W	2		CANEC0801358901 (attached P41)	2008-04-06	SGS	ND	ND	ND	ND	ND	ND
		PURE TIN				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	ROHS AD62550A			KA/2008/10254(attached P44)	2008-01-10	SGS	ND	ND	ND	ND	ND	ND
19	IC	EPOXY MOLDING COMPOUND	LQFP-32PIN	1	Bing zhen	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





P1

TEST REPORT

Applicant

: SAMSUNG ELECTRO-MECHANICS CO., LTD.

Address

: 314, Maetan-3 Dong, Yeongtong-Gu,

Suwon-City, Gyunggi-Do, 443-742 Korea

Page: 1 of 4

Date: Nov. 16, 2007

Report No. RT07R-6953-001

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(YSV) 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).

Tested by,

myt

E.Y.Lee / Chemist

Authorized by,

H.W.Yoo / Lab Martager

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^{*} Note: 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.



TEST REPORT

Report No. RT07R-6953-001

Page: 2 of 4

Date: Nov. 16, 2007

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		5	N.D.
Dibromobiphenyl	mg/kg		5	N.D.
Tribromobiphenyl	enyl mg/kg With reference to US EPA	5	N.D.	
Tetrabromobiphenyl		5	N.D.	
Pentabromobiphenyl		5	N.D.	
Hexabromobiphenyl	mg/kg	and determined by GC/MS	5	N.D.
Heptabromobiphenyl	uig/kg		5	N.D.
Octabromobiphenyl	mg/kg		5	N.D.
Nonabromobiphenyl	mg/kg		5	N.D.
Decabromobiphenyl	ng/kg		5	N.D.
Polybrominated Diphenyl Ether (I				
Monobromodiphenyl ether	mg/kg		5	N.D.
Dibromodiphenyl ether	mg/kg		5	N.D.
Tribromodiphenyl ether	mg/kg		5	N.D.
Tetrabromodiphenyl ether	mg/kg	1474	5	N.D.
Pentabromodiphenyl ether	mg/kg With reference to US EPA		5	N.D.
Hexabromodiphenyl ether	mg/kg		5	N.D.
Heptabromodiphenyl ether	enyl ether mg/kg and determined by GC/MS and determined by GC/MS and determined by GC/MS		5	N.D.
Octabromodiphenyl ether			5	ND.
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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TEST REPORT

Report No. RT07R-6953-001

Page: 3 of 4

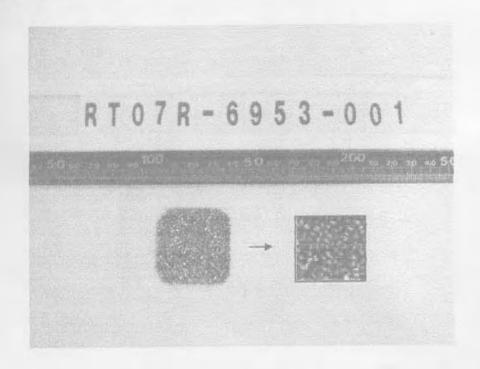
Date: Nov. 16, 2007

Sample ID No.

: RT07R-6953-001

Sample Description : Ceramic Chip Capacitor

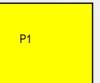
* View of sample as received;-



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TEST REPORT

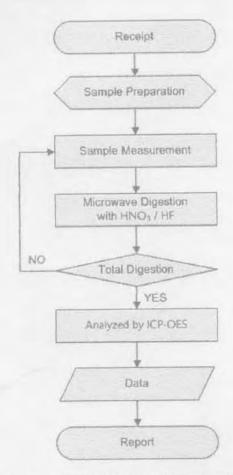
Report No. RT07R-6953-001

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 Euing Yong Lee, Chemist

Confirmed by Sang Chul Park, Senior Researcher

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

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



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

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.

Date of Sample Received 14 Mar 2008

14 Mar 2008 - 19 Mar 2008 **Testing Period**

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.

sumy

Huang Fang, Sunny

Sr. Engineer

SGS



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No. CANEC0800932401

Date: 20 Mar 2008

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Test Results:

SGS

ID for specimen 1 Description for specimen 1 CAN08-009324.001

"Chipe 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	9 - 4 - 7 -	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)	mg/kg	The state of the state of	N.D.		1000
(Note 4)					
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.	-5	



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Unity's otherwise stated the esuits shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced extent in full, without prior at providing and only.

GZCM 2037907

19 Kechu Road SCENTECH Park Guargetou Economic & Technology Development District Guargetou, Chris 510663 中国·广州·经济技术开发区科学城科珠路198号 邮编:510663

1 (86-20) 82155555 f (86-20) 82075125 1 (86-20) 82155555



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
- 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

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t (86-20) 82155555 f (86-20) 82075125 f (86-20) 82075125



No. CANEC0800932401

Date: 20 Mar 2008

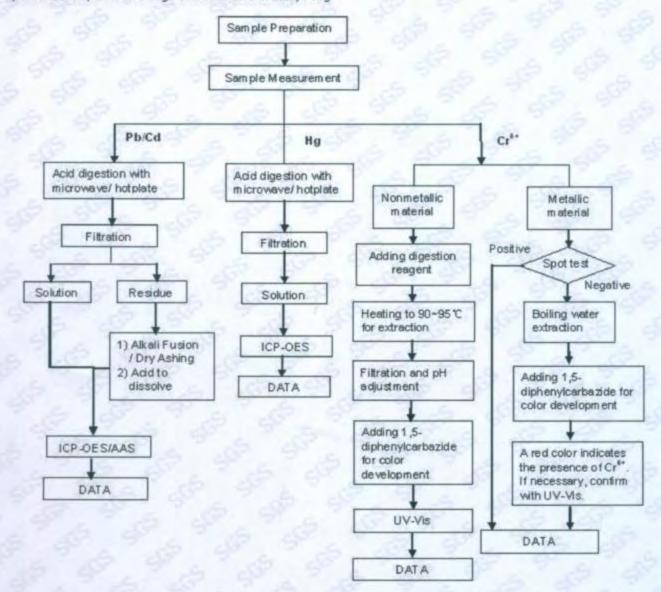
Page 4 of 6

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





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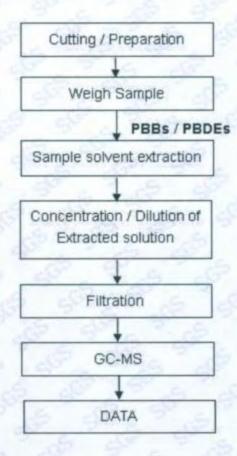
Date: 20 Mar 2008

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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



No. CANEC0800932401

Date: 20 Mar 2008

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Sample photo:



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Universe otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced extent of the Company.

GZCM 2037911





No. : CE/2008/19508 Date : 2008/02/13 Page : 1 of 5

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 : MOULDING GOLD GREEN 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



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)

-	Method	Result	
Test Item (s):	(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 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 : 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

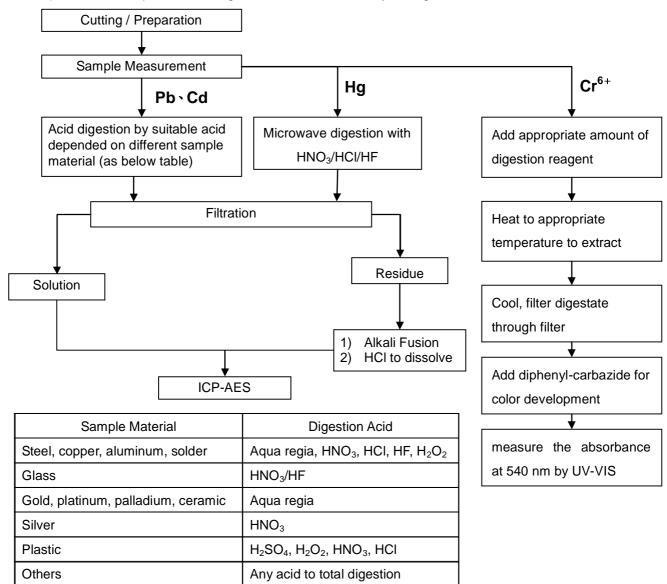
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

- 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



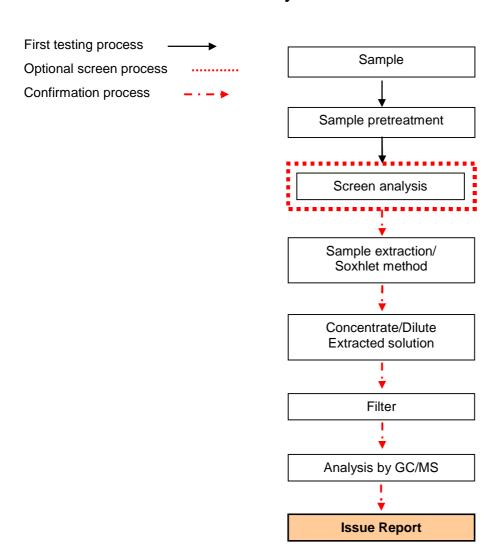


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART





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





** End of Report **





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



No.: CE/2008/21496 Date: 2008/02/20 Page: 2 of 5

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)

Took Home (a):	Method	Result	MDI
Test Item (s):	(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 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 : 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

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No.: CE/2008/21496 Date: 2

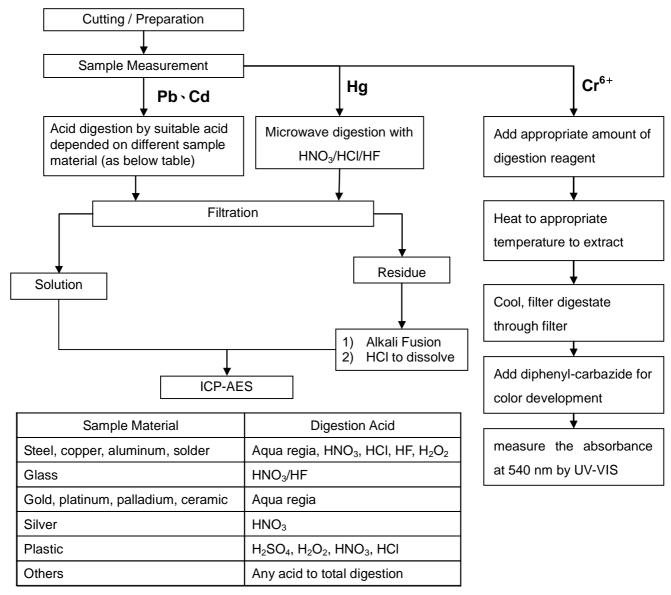
Date: 2008/02/20

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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

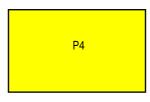
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.

 (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



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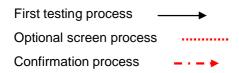


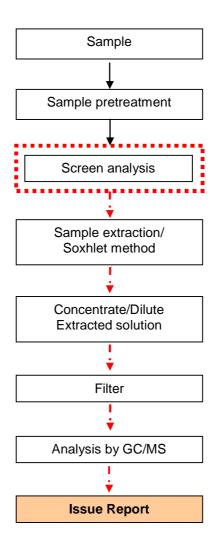
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART

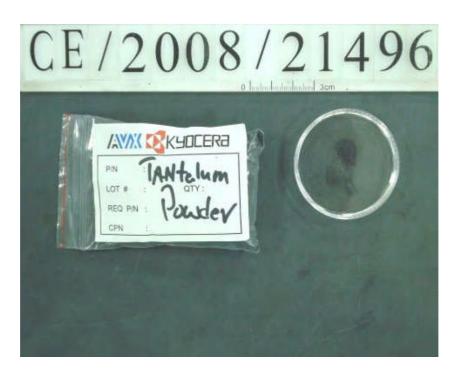






AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of 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



No.: CE/2008/21491 Date: 2008/02/20 Page: 2 of 6

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)

To at Itams (a)	Method	Result	MDI
Test Item (s):	(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 Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 5
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 : SILVER COLORED METAL WIRE



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



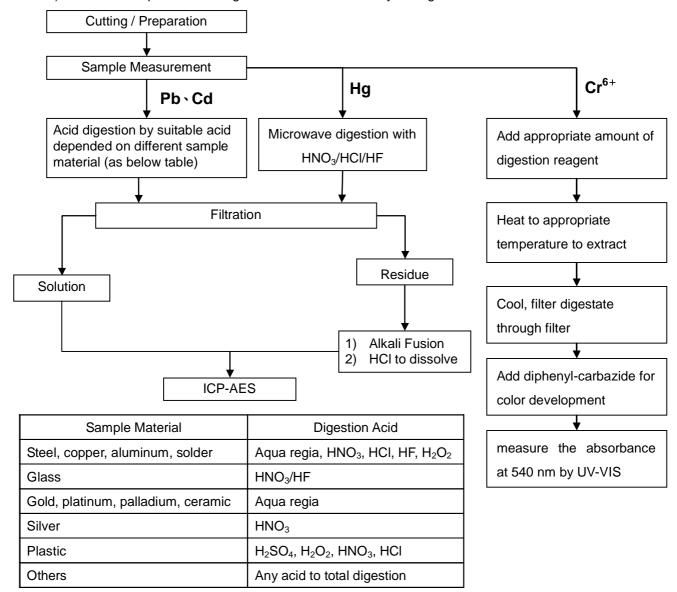
No.: CE/2008/21491 Date: 2008/02/20 Page: 4 of 6

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



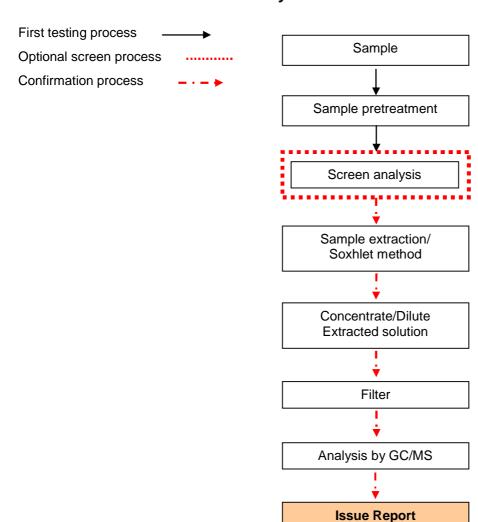


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART







No.: CE/2008/21494 Date: 2008/02/20 Page: 1 of 5

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



No.: CE/2008/21494 Date: 2008/02/20 Page: 2 of 5

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)

Took Home (a):	Method	Result	MDI
Test Item (s):	(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 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 : 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

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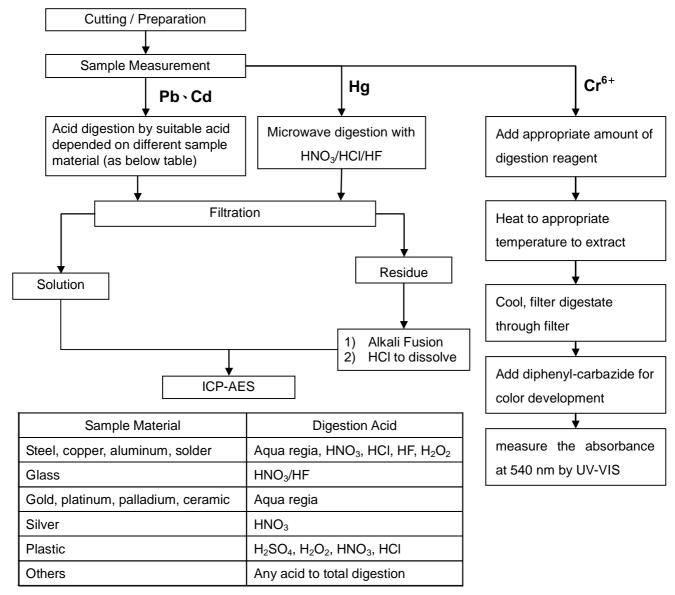


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

- 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







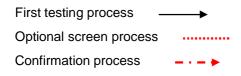
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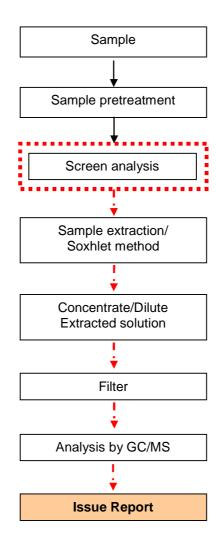
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART







No.: CE/2008/21494 Date: 2008/02/20 Page: 5 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 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 : 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



No.: CE/2008/19551 Date: 2008/02/13 Page: 2 of 5

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)

-	Method	Result	
Test Item (s):	(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 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 : 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

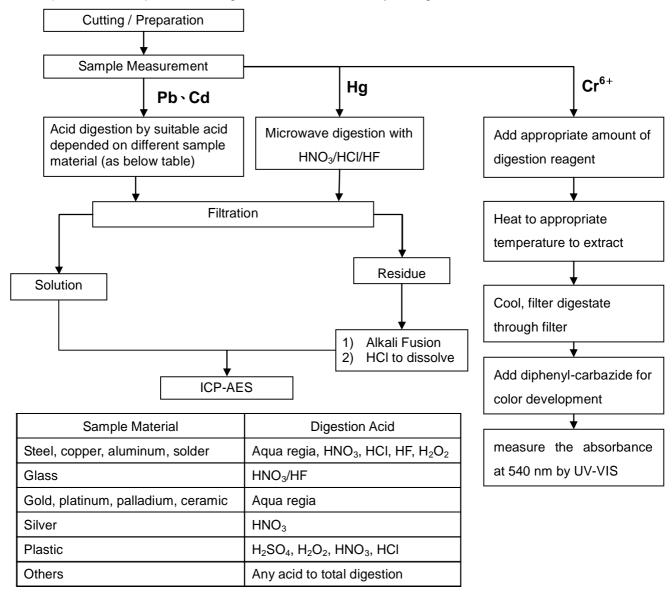
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

- 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



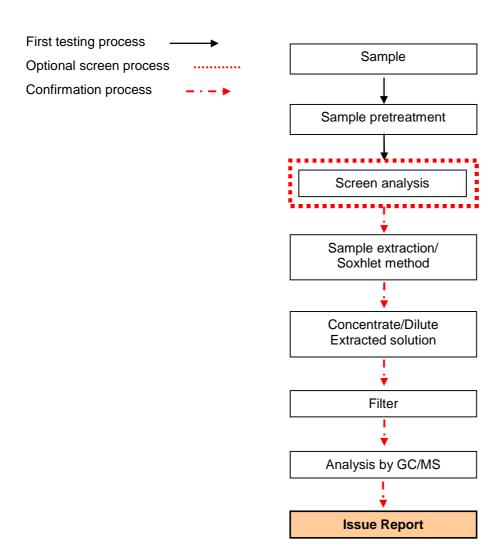


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART

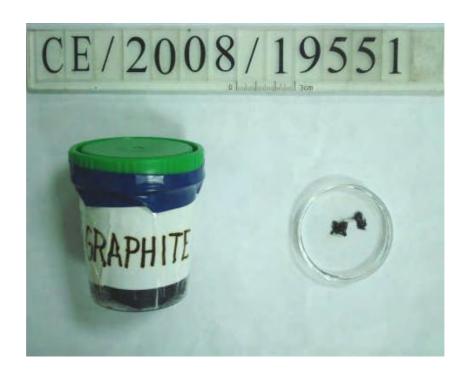




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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of Report **



Test Report No.

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 : SILVER I

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



No.: CE/2008/21499 Date: 2008/02/20 Page: 2 of 5

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)

T(1//-)	Method	Result	MDI
Test Item (s):	(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 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 : 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

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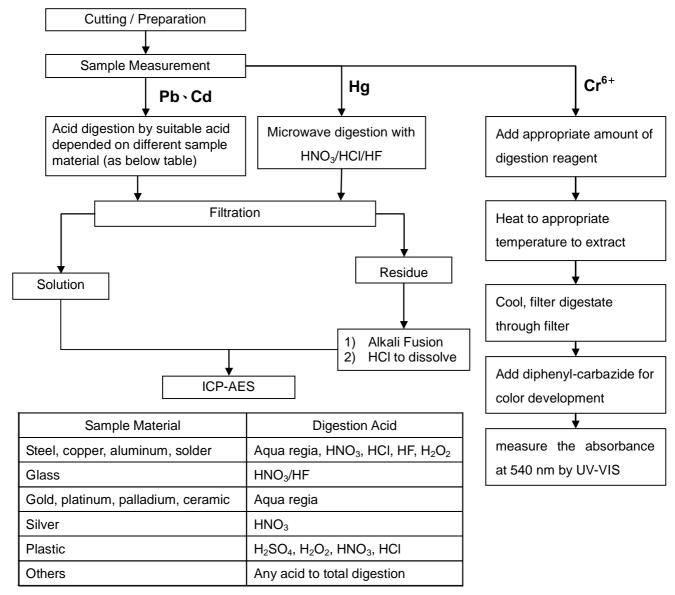


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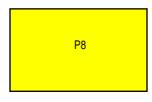
AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



- 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





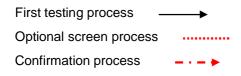


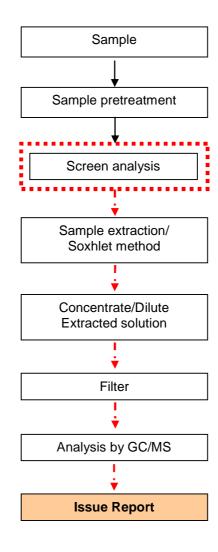
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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 **





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



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)

Took Home (a)	Method	Result	MDL
Test Item (s):	(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 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 : 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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No.: CE/2008/21498

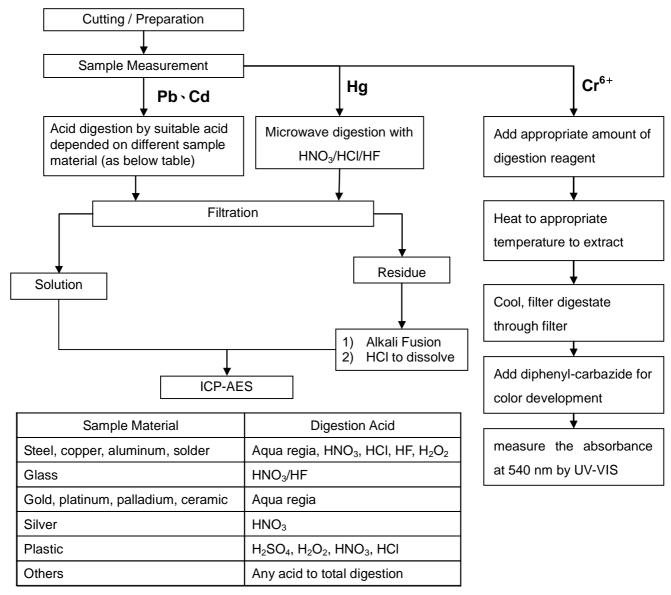
Date: 2008/02/20

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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

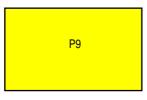
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.

 (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



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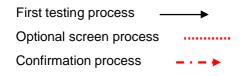


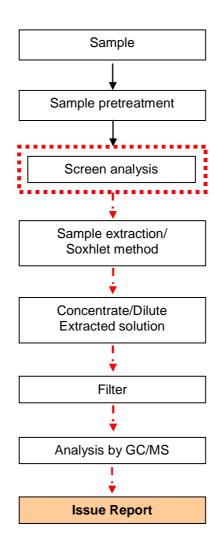


AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART







AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 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 : 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)

()	Method	Result	
Test Item (s):	(Refer to)	No.1	MDL
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		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 : 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

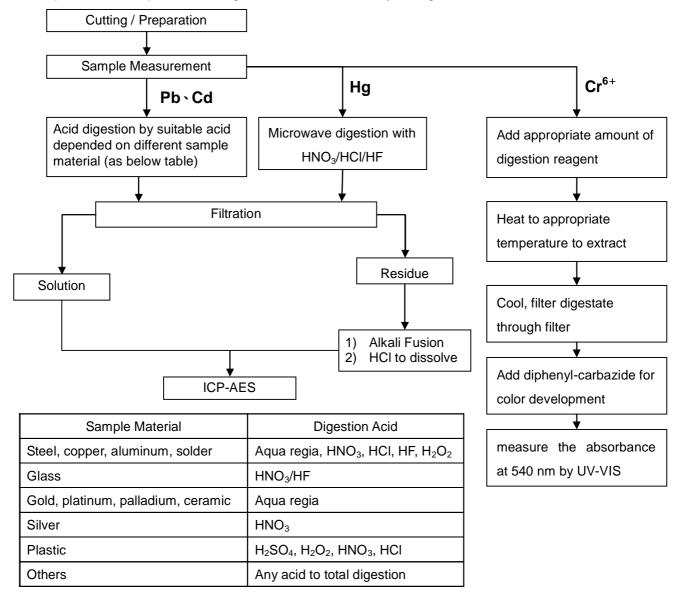


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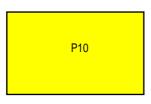
: 2008/02/13 Page : 3 of 5

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

- 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





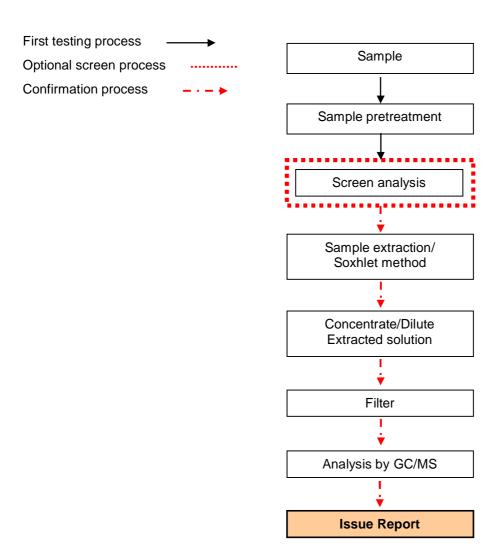


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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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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).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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



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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)

()	Method	Result		MDL
Test Item (s):	(Refer to)	No.1	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		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)	(5)	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)



Test Report

No.: CE/2008/19545A Date: 2008/02/20 Page: 3 of 7

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



No.: CE/2008/19545A Date: 2008/02/20 Page: 4 of 7

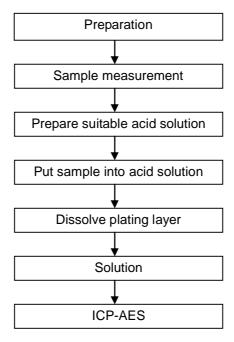
AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



NO.1

- 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

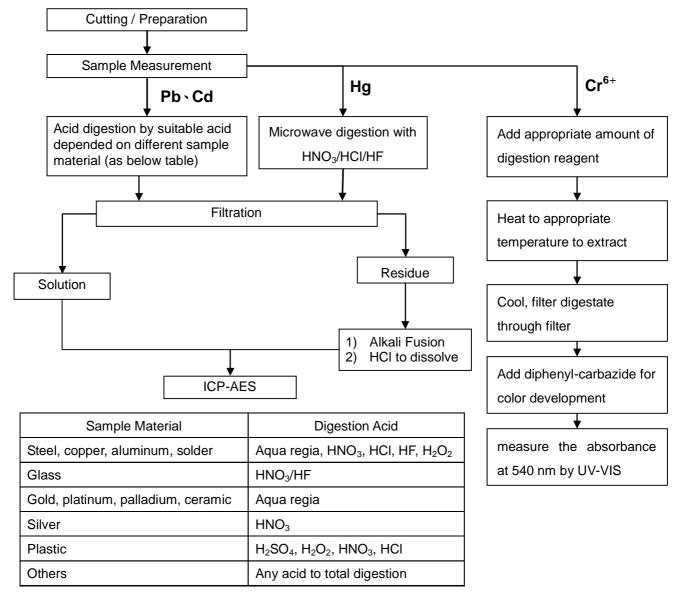




No.: CE/2008/19545A Date: 2008/02/20 Page: 5 of 7

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. $(Cr^{6+}$ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



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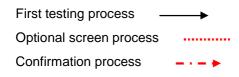


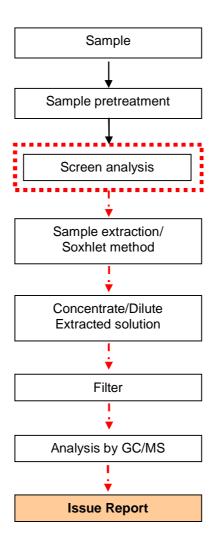
No. : CE/2008/19545A Date : 2008/02/20

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









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 **

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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, 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, MALTILAYER 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 专用章

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NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Talpel courty, Talwan. #886-2) 22983838 [(886-2) 2299-3237 www.sgs.com.tw

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)

Toot Itom (c):	Method	Result	MDL	
Test Item (s):	(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 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		nid.	5	
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.		
Monobromobiphenyl ether	. 100	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,

MALTILAYER FERRITE COMMON MODE CHOKE.

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

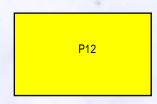
4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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No. 139-1, Wu Kung Road, WulKu Industriel Zone, Talper county, Taiwan.

1(886-2) 22993939 (1886-2) 2299-3237 www.sgs.com.tw



No.: CE/2008/34047

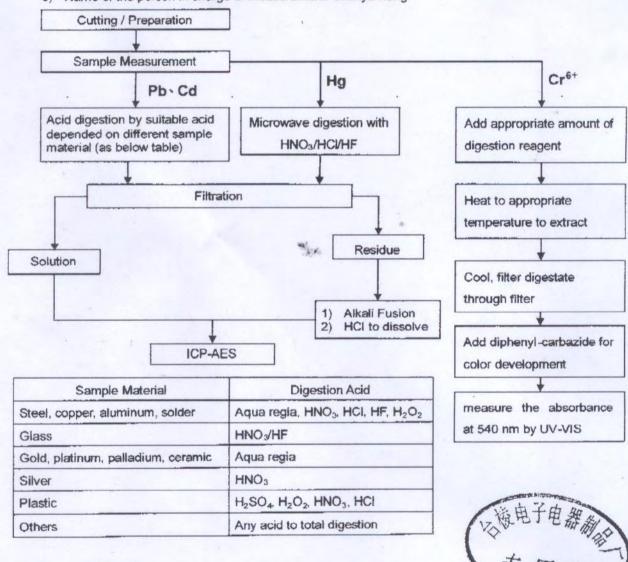
Date: 2008/03/19

Page: 3 of 5

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

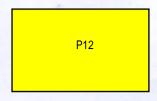
MAI PARKI MERCEL

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁵⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



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No.: CE/2008/34047

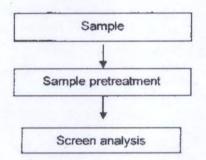
Date: 2008/03/19

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

PBB/PBDE analytical FLOW CHART

First testing process Optional screen process Confirmation process



Sample extraction/ Soxhlet method

Concentrate/Dilute Extracted solution

Filter

Analysis by GC/MS

Issue Report



Test Report

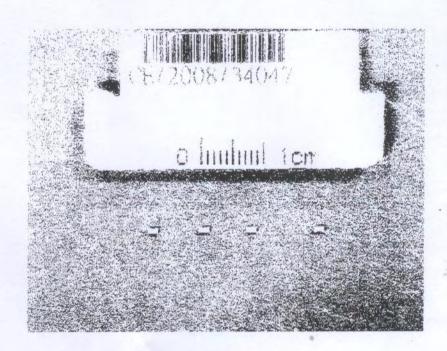
No.: CE/2008/34047

Date: 2008/03/19

Page: 5 of 5

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





** End of Report **



FPC! :

P13

17:12 2005. (O 11

测试报告

" No. CANEC0800544501

日期: 2008年0月月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 热 9 楼

以下测试之样品差由申请者所提供及确认: 石英晶体谱摄器 黑色片

SGS工作编码

10865481 - SZ

样品接收日期 测试周期

2008年02月28日 2003年02月28日 - 2008年03月05日

测试要求

极摇客户要求测试

测试方法

请参见下一页

观试结果

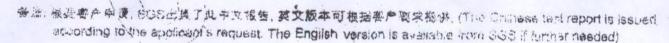
请参见下一页

通标标准技术服务有限公司

授权签名

Huang Tang, Sunny.

Sr. Engineer



FROM :

FAX NO. :

2003.10.21 17:13 P2

SGS

测试报告

No. CANEC0800544501

P13

日期: 2008年03月05日 第2页,共4页

测试结果:

样品1 ID

样品1描述

: CAND8-005445.001

:做包金属壳

重金属

测试项品 单位 测试方法(参考) 测试结果 MDL 镉 (Cd) 毫克/千克 IEC 82321/2nd 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. 策 (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. 0 = 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)。

The state of

Birtu

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

70,02mg/kg.

5. "-" = 未规定

[2]

P4

2008.10.21 17:14

FROM :

FAX NO. :

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

: 黑色塑料

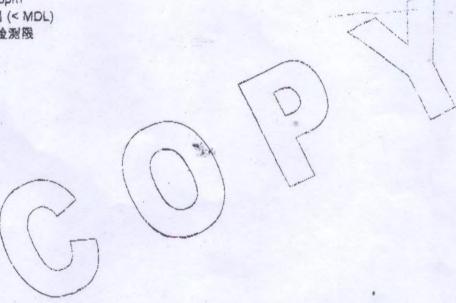
样品2指述

卤素 (氟. 氯. 溴. 碘)

测试项目	单位	测试方法(参考)	测试结果	WDL
氣 (片)	■克/千克	BS EN 14582:2007, IC	72	50
氢 (CI)	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 (١)	毫克/千克	BS EN 14582:2007, IC	N.D.	50

注释:

- 1. 臺克/千克 = ppm
- 2. N.D.= 来检出 (< MDL)
- 3. MDL=方法检测限



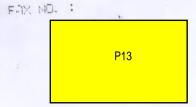
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Page 1 PERSONAL STATE 2008.10.21 17:13

2008.10.01 17:13

FROM :



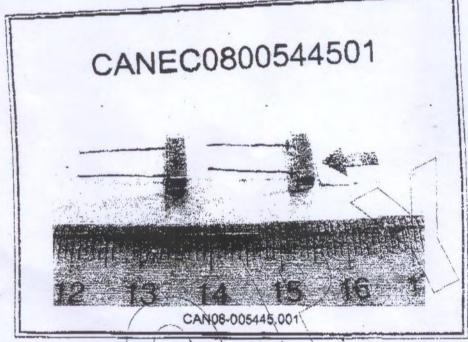
SGS

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

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No.: CE/2008/34047

Date: 2008/03/19

Page : 1 of 5

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

P14 AN

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, MALTILAYER 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 PBS 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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No.: CE/2008/34047

Date: 2008/03/19

Page : 2 of 5

MAX ECHO TECHNOLOGY CORP.

西斯斯川洋洋川 韓州 | 韓川川 松 藤 東泉

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

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

Test Item (a):	Method	Result	MDI	
Test Item (s):	(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 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,

MALTILAYER 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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No.: CE/2008/34047

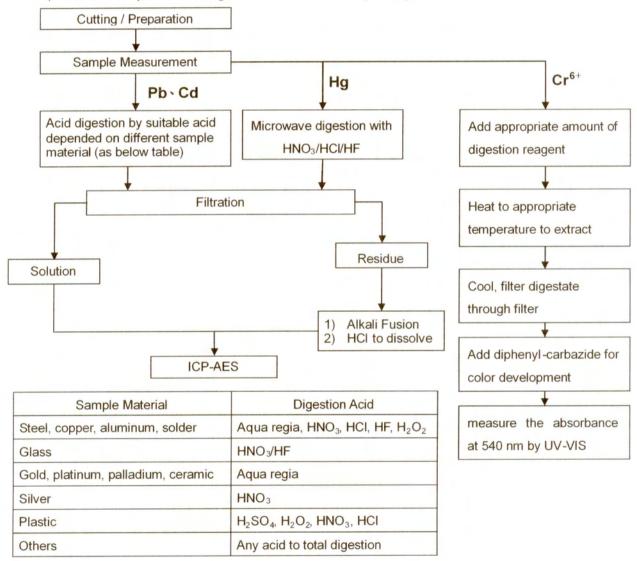
Date: 2008/03/19

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



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No.: CE/2008/34047

Date: 2008/03/19

Page : 4 of 5

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

P14

PBB/PBDE analytical FLOW CHART

First testing process
Optional screen process
Confirmation process

Sample

Sample pretreatment

Screen analysis

Sample extraction/ Soxhlet method

Concentrate/Dilute Extracted solution

Filter

Analysis by GC/MS

Issue Report

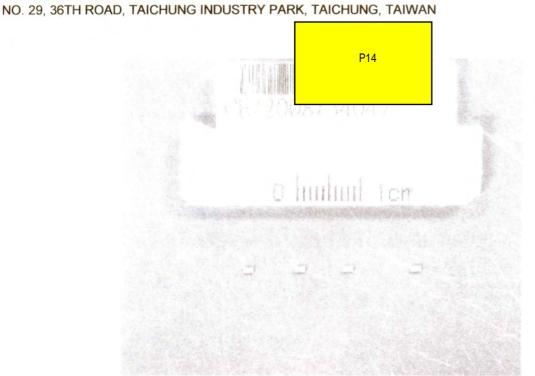
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MAX ECHO TECHNOLOGY CORP.

No.: CE/2008/34047

Date: 2008/03/19

Page: 5 of 5



** End of Report **

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Test Report

No.: GZ0711179980A/CHEM

Date: APR 16, 2008

Page 1 of 6

BRIGHTEK 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 Perlod

: NOV 28, 2007 TO DEC 04, 2007

Test Requested

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

B: To determine the Cadmium, Lead, Mercury & Hexavalent Chromlum 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



Test Report

No.: GZ0711179980A/CHEM

Date: APR 16, 2008

Page 2 of 6

Tost 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	(5)	N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs		N.D.	
Monobromodiphenyl ether		N.D.	5
Dibromodlphenyl ether		N.D.	5
Tribromodiphenyl other		N.D.	5
Tetrabromodiphonyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl other		N.D.	5
Nonabromodiphenyl other		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

Pago 3 of 6

B;

Tost 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
Hexavalont 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-tost:

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.)

Bolling-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

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



Test Report

No.: GZ0711179980A/CHEM

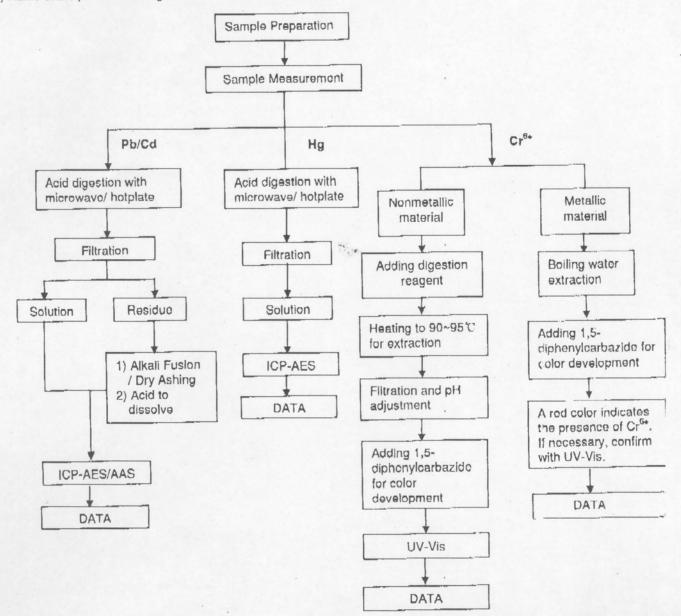
Date: APR 16, 2008

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

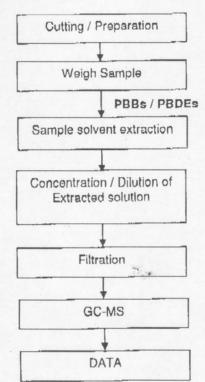
No.: GZ0711179980A/CHEM

Date: APR 16, 2008

Page 5 of 6

Testing Flow Chart

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





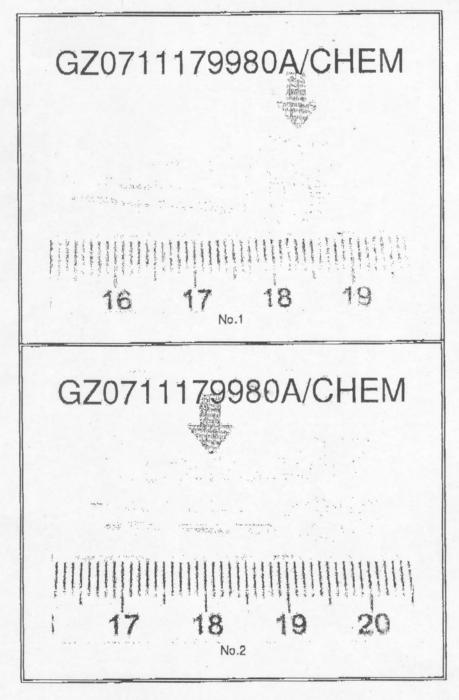
Test Report

No.: GZ0711179980A/CHEM

Date: APR 16, 2008

Pago 6 of 6

Sample photo:



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*** End of Report ***





Test Report

No. CANEC0802822801

Date: 07 Jun 2008

Page 1 of 6

BRIGHTEK OPTOELECTRONIC CO LTD BUILDING 7 ROW 5 2ND INDUSTRIAL AREA XINQIAO SHAJING BAO'AN DISTRICT SHENZHEN GUANGDONG CHINA

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

SMD LED

SGS Job No.

11069774 - GZ

SGS Internal Reference No. :

Date of Sample Received

03 Jun 2008

Testing Period

03 Jun 2008 - 06 Jun 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. CANEC0802822801

Date: 07 Jun 2008

Page 2 of 6

Test Results:

ID for specimen 1 Description for specimen 1 : CAN08-028228.001 : "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	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2	1000
alkaline extraction					
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	
Tetrabromoblphenyl	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 other	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
- 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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Date: 07 Jun 2008

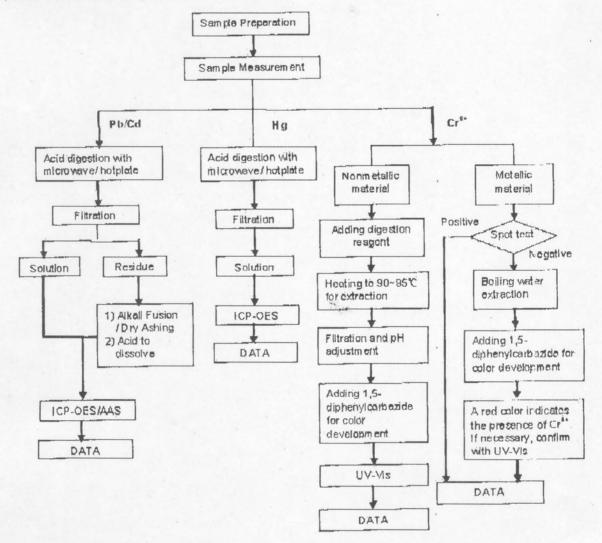
Page 4 of 6

ATTACHMENTS

Testing Flow Chart

1) Name of the person who made measurement Bowen Chen

2) Name of the person in charge of measuroment: Adams Yu



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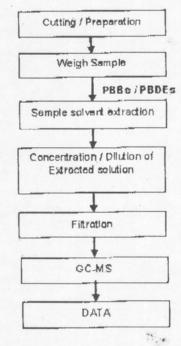
No. CANEC0802822801

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Page 5 of 6

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

Page 6 of 6

Sample photo:



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Test Report

No. CANEC0801059201

Date: 24 Mar 2008

Page 1 of 4

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



No. CANEC0801059201

Date: 24 Mar 2008

Page 2 of 4

Test Results:

ID for specimen 1

Description for specimen 1

: CAN08-010592.001

: 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
A CONTRACTOR OF THE PROPERTY O		IEC 62321/2nd CDV (111/95/CDV), ICP-OES	15	2	1000
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), ICF-0ES	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/211d CDV (111/95/CDV), UV-VIS	N.D.	-	1000
Sum of PBBs	mg/kg		N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	1000
	- /	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	1 ()	N.D.	5	
Hexabromobiphenyl	mg/kg	IEC 62321/2nd CDV (11)1/95/CDV), GC-MS	N.D.	5	
Heptabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS			
Octabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromobiphenyl	mg/kg	TEC 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	4000
Sum of PBDEs(Mono to Nona)	mg/kg	\·)	N.D.	-	1000
(Note 4)		I SOURCE LODGE WALKETONE CO. HO.	ND		
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.	-	-
				ATTAIN .	

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P17

No. CANEC0801059201

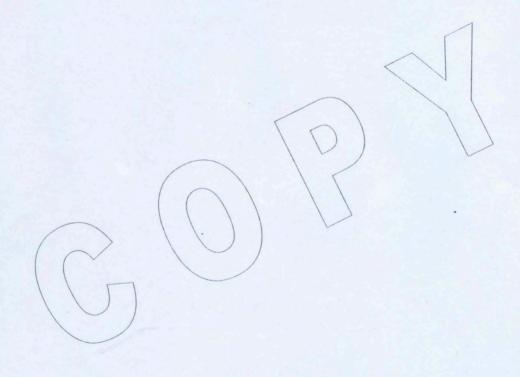
Date: 24 Mar 2008

Page 3 of 4

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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Guangzhou by Agrice Extremical Laboratory.

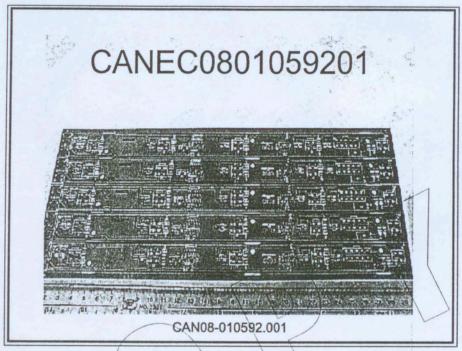


No. CANEC0801059201

Date: 24 Mar 2008

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Sample photo:



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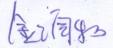
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f (86-20) 82075125 f (86-20) 82075125 www.cn.sgs.com e sgs.china@sgs.com



No. CANECO700099901

Date: 14 Nov 2007

AN GUANGLAN HO! TAI MANUFACTORY THANS KENG JING GUANLAN TOWN, SH ENZHEN CITY SHENZHEN CITY B SHANQWEI VILLAG CHINA

wash rete submitted and identified on behalf of the clients as : The following sample EVA

SGS Job No.

SGS Internet Refere No. Date of Sample Rec

Testing Period

10689302 - GZ

21

12 Nov 2007

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 Et .1 111/54/GDV Procedures for the Determination of Levels of Reg sated Substances in Ejectrotechnical Products.

(1) Determination of Cadmium by ICP. Determination of Land by IOP.

Determination of Mercury by IOP.

(2) Determination of Hecayale at Chromium by Colorimetric Mathod.

(8) Determination of PBBs an I PBDEs by GC-M8.

Test Results Conclusion

Pigeos rafer to next pege(s).

Based on the performed tests : 11 submitted sample(s), the results comply with the Rotts Directive 2002/15/EC and its subsequent amendments.

Signed for and on be SGS-CSTC Ltd.

Huang Fang, Sunny Sr. Engineer



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DUD (SGS SA)

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FAX NO. : 076922673099

FREETECH

No. CANECO70088801

Date: 14 Nov 2007

Page 2 of 3

Test results by chamics et od (Unit : mg/kg)

Test Item(s)		_	Method (Refer to)	No.1	*	MOL	Roma Limit	
Cadmium(Cd)		200	(1)	N.D.		2	100	
Lend (Pb)	1 - 2 10 - 1	1,65	(1)	8		2	1900	
Mercury (Hg)			(1)	N.D.		2	1000	
Hexavalent Chromium ((I) tay salked	ine	(2)	N.D.		2	1000	
Sum of PBBs .			(3)	N.D.			1000	
Monobromoblphenyl			(3)	N.D.		8	1000	
Dibramobiphenyl			(a)	N.D.		6		
Tribromobipherryl			(3)	N.D.		R		
Tetrabramobiphanyl			(3)	N.D.		- 4		
Pentabromobipherryl			(3)	N.D.		- 1	3	
Hexabremoblphenyl		*	(3)	N.D.		A	-	
Haptabromobiphenyl			(3)	N.D.				
Optobromobiphenyl			(3)	N.D.	٠٠.	. 5		
Nonebramobiphenyl			(3)	N.D.		- 5	4	
Decabromobiphenyi		3 40 1	(3)	N.O.		5		
Burn of PBDEs(Mono to N	a) (Note 4	1	(3)	N.D.		-	1000	
Monobromodiphenyl ether		7 12-7	(3)	N.D.		5		
Dibromodiphenyl effice	1 2 27	-50	(3)	N.D.		6		
Tribromodiphenyl ether-			(8)	N.D.		6		
Tetrabromodipheriyl ether		2 "	(3)	N.D.		5		
Pentabromodiphicnyl either		***	(3)	N.D.		8		
Hazabromodiphenyl ather		***	(3)	N.D.	•	5		
Heptebromodiphenyl ether			(3)	N.D.		8	*	
Octabromodiphenyl ether-		- 1 -	(3)	N.D.		5		
Nonabromodiphenyi ether	10		(3)	N.O.		5		
Deceloromodiphenyl ether			(3)	N.D.		8		
Sum of PBDEs(Mono to Di) .		(3)	N.D.		-	A STATE OF THE PARTY OF THE PAR	
7.4	1 -			•		with the said	て気がある	-
Note:		1				20	JAMEN S	
1. mg/kg × ppm		1, , .				1	(A)	
		1				12		4

- 2. N.D. = Not Detected (<)
- 3. MDL Method Detection
- according to 2005/717/EC Decalida is exempt. 4. Sum of Mono to Nons 80
- 8. "." a Not regulated

Test Part Description

No. 1 Black sheet

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188-20 MH 55266

1 (4-29) 10075-23

GZCM 1658422

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Sample photo:

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Date: 14 Nov 2007

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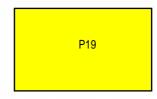
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No.: KA/2008/10040

Date: 2008/01/09 Page: 1 of 5

A PROBADIA BARA DAN KARASA INDIN DONIN BURKAT INDIN KRUBAT KIRKI BARAK BURKI BARAK BURKI BARAK BURKI BARAK BURK

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

With reference to BS EN 1122:2001, Method B for Cadmium (1) Content. Analysis was performed by ICP-AES.

With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV/Vis Spectrometry.

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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TW 6153624



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)

Toot Itom (a):	Method	Result	MDI	
Test Item (s):	(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 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.	-	

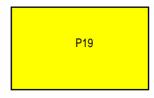
TEST PART DESCRIPTION:

NO.1 **ABS**

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No.: KA/2008/10040

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

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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





No.: KA/2008/10040

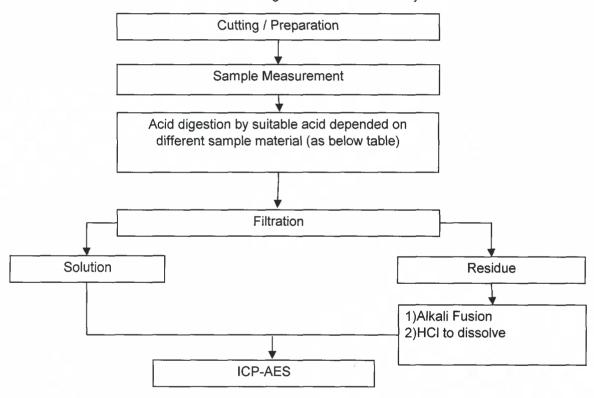
Date: 2008/01/09 Page: 4 of 5



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
- Name of the person in charge of measurement: George Huang 3)

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

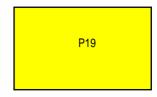


Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO₃/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI
Others	Any acid to total digestion

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TW 6153621





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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TW 6153620

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PMMZ



P20



Test Report

No.: KA/2008/10056

Date: 20080109 Page: 1 of 3

KUNSHAN CITY EVERCHEM PLASTIC LTD UNIT 20, KINGOJAO 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

Stylentern No.

ACRYPET . MF001

Color

NATURE

Sample Receiving Date

2008/01/02

Testing Period

2008/01/02 TO 2008/1/8

Test Requested

In accordance with the RoHS Directive 2002/95/EC, and its

amandment directives.

Test Method

- With reference to US EPA 3052 for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3852 for Lead Content. Analysis was performed by ICP-AES.
- (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by CP-AES.
- (4) With reference to IEC 82321, 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)

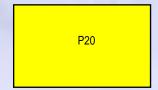
Katherino Ho / Supervisor Signed for and on behalf of SGS Talwan Limited

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No.: KA/2008/10058

Date: 20060109 Page: 2 of 3

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

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

Test Hem (a):	Method	Result		
Codneum (Cd)	(Refer to)	No.1	MOL	
Lead (Pb)	(1)	n.d.	2	
Marauzy (Hig)	(2)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkarine extraction	(3)	n.d.	2	
Sum of PBSs				
Monobromobiphenyl		n d.		
Dibromobiphenyl		n.d.	5	
Tribromobiphenyl		0.0	5	
Tetrabromobiphenyl		n.d.	5	
Pentabromobiphenyl		7.6.	5	
Hexapromobiphenyl		n.d.	5	
leptabromobipheny:		n.a.	5	
Octabromobiphenyl		n.d.	5	
Nonabromobiphery		71.d.	5	
Decabromobipheny:		n.d.	5	
um of PBDEs (Mono to Nona)(Note 4)		n.d.	5	
fonobramobiphenyl ether	(6)	n.d.		
ibromobiphenyl ether		n.d.	5	
ribromoiophenyl ether		n.d.	5	
etrapromobiphenyl ather		n.d.	5	
entapromobiphenyl ether		n.d.	6	
exabromobiphenyl ether		n.c.	5	
eptagromobipheny: ether	4	n.d.	5	
ctabromobiphenyl ether		n.d.	5	
onabromobiphenyl effec		n.d.	5	
acapromobiphanyi ether	1	n.d.	ŏ	
um of PBDEs (Mono to Deca)		n.d.	5	

TEST PART DESCRIPTION:

: NATURE PLASTIC PELLETS

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Test Report

No. :KA/2008/10056

Date: 20080109 Page: 3 of 3

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

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. " - " = Not Regulated

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FORMOS: PLASTICS CORPORATION

4F, 201. TUNG HWA N. ROAD, TAIPEI, TAIWAN

Report No. : CD/2008/10512

Date : 2008/01/06

Page : 1 of 3

The following sample(s) was/were submitted and identified by/on behalf of the client 25 :

Sample Il scription

ACETAL CO-POLYMER

Style/Item No

A STORY

FORMOCON FM090 \

2008/01/06

Sample Fixcived Testing Piriod

2008/01/06 TO 2008/01/12

Conclusi in

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).

Darrier Vi i, M.A. / Operation Manager "Signed for and on behalf of SGS TAI VAN LTD.

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FORMOSA PLASTICS CORPORATION 4F, 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN Report No. : CD/2008/10512

Date

: 2008/01/06

Page

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Test Result()

PART NAME NO.1

WHITE PLASTIC PELLETS

PASS

		WW		MDL	Result	Limit of
Test It	m (s):	Unit	Method	WIDT	No.1	ROHS
PBBs (Polybro biphenyls)	ninated					
Monobromobij	ienyl	%		0.0005	N.D.	-
Dibromobiphe	Published of the second second	%	7	0.0005	N.D.	-
Tribromobiphe:	13.1	%	With reference to	0.0005	N.D.	
Tetrabromobir.	ienyl	%		0.0005	N.D.	
Pentabromobij	henyl	%	USEPA3540C. Analysis was	0.0005	N.D.	
Hexabromobip	enyi	%	performed by HPLC/DAD,	0.0005	N.D.	
Heptabromohi	henyl	%	LC/MS or GC/MS.	0.0005	N.D.	
Octabromobip.	new-realistation and the second	%	(prohibited by 2002/95/EC	0.0005	N.D.	
Nonabromobir	ienyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.	
Decabromobip	enyl	%	76/769/EEC)	0.0005	M.D.	-
Total PBBs (Polybromina: biphenyls)/St		%		-	N.D.	0.1
PBBEs(PBDEs (Polybromina) ethers)	d biphenyl		ten der er		10 March	
Monobromobiy	ienyl ether	%		0.0005	N.D.	
Dibromobiplie	yl ether	%		0.0005	N.D.	-
Tribromobiphe		%		0.0005	N.D.	-
Tetrabromobic	enyl ether	%		0.0005	N.D.	
Pentabromobij	nenyl ether	%		0.0005	N.D.	-
Hexabromobip		%	With reference to	0.0005	N.D.	-
Heptabromobi	henyl ether	%	USEPA3540C. Analysis was	0.0005	N.D.	
Octabromobip.		%	performed by HPIC/DAD, LC/MS or GC/MS.	0.0005	N.D.	-
Nonabromobic	「日日のちゅうちゃんなんからしているからないとう	%	(prohibited by 2002/95/EC	0.0005	N.D.	
Decabromobip		%	(RoHS), 83/264/EEC, and	0.0005	N.D.	
Total PBBEs(I (Polybromina: ethers)/Sum	3DEs)	%	76/769/EEC)	-	N.D.	*6
Total of Monc brominated b ether. (Note	henyl	%		(-	N.D.	0.1.

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FORMOSA PLASTICS CORPORATION

4F, 201, TUN HWA N. ROAD, TAIPEI, TAIWAN

Report No. : CD/2008/10512

: 2008/01/06 Date

Page : 3 of 3 重新等引度 医阿克尔曼欧克拉洛亚

DADG

		W 11	N 875 W	Result	Limit of
Test Ite m (s):	Unit	Method	MDL	No.1	ROHS
Chromium VI (1+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A	2	N.D.	1000
Cadmium (Cd)	bbm	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)	bbm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	1000

NOTE: (1) N). = Not Detected (<MDL)

(2) $p_1 n = mg/kg$

(3) M L = Method Detection Limit

(4) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Cummission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC

(5) Pt! BEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.

(6) " - ' = Not Regulation

(7) " - - " = Not Applicable

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Jun. 19 2007 03:02

FAX NO.



XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER: SZHH00303727

APPLICANT: 揭阳市东山区磐东永胜电声厂

DATE: Oct 06, 2008 揭阳市东山区磐东镇溪乾工业区

ATTN: 卓淑贤小娟

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,大字香港有限公司,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

PASS

SCREENING COMPONENTS OF SUBMITTED SAMPLE

SCREWING BY XRF SPECTROSCOPY

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
The second second	Cd C	ND	
1/4	Pb	ND	
1.	Mg /	ND &	Cr6+: ND(<1ppm)
The state of the	over I	INCONCLUSIVE	A STATE OF STATE
	Br //	ND	The state of the s
	cd o	ND ND	SO TO ST TO THE SHOW
	Pb	ND/	
2.	Нд	ND / I V	NOT TESTED
	Cr	DETECTED	St. March Co. March Co. Co.
•	Br	ND //	
	Cd	ND ND	61 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Pb	ND ND	
3.	Hg	ND	NOT TESTED
and the second	Cr	STATE OF NDO CONTRACTOR	To the first of the second
	Br	ND O	
	Cd	ND ND	30 S. O. T. M. St. + M.
	Pb	ND of o	See the see that the see
4.	Hg /	ND	NOT TESTED
F 32 5 5	Cr	ND .	The state of the
	Br	ND	
	Cd	ND	A OF STATES
	Pb	ND	The state of the s
5.	Hg	ND /	NOT TESTED
	Cr	ND	
D 1 10 10	Br	DETECTED	A ST ST ST ST ST ST ST ST

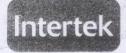


XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT NUMBER

NUMBER: SZHH00303727

TESTS CONDUCTED

SCREENED COMPONENTS	1.	XRF RESULTS	CHEMICAL CONFIRMATION RESULT
	Cđ	ND	
The state of the s	Pb	ND O	
6.	Hg	ND ND	NOT TESTED
	Cr	ND +	A St. Of St. Of St.
	Br	ND	THE SHAPE STEEL ST
8 8 / /3	Cd	ND	Sen Mary Comment Car May
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ Pb	ND ND	A SOUTH OF SOUTH SOUTH
7.	Hg	ND	NOT TESTED
	% Cr	/ ND ND ND	The standard the standard standard
	Br / S	ND	A SE SE SE SE SE
	cd //	ND ND	A Maria Maria Maria
	Pb	ND	STATE OF STA
8.	Hg .	ND/	NOT TESTED
	Cr Cr	o o / ND / o/	1 2 6 A 4 6
	Br	ND //	The state of the s
	Cd Cd	ND V	A PER SE SE SE
	Pb	ND	
9.	Hg	ND	NOT TESTED
	Cr	ND ND	N/ 10 15 15 16 16
PROPERTY.	Br	ND ND	10 1 16 10 10 10 10 10 10 10 10 10 10 10 10 10
# 1 1 1	Cd	ND ND	A 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The state of the s	Pb	ND O	The state of the s
10.	Нд	ND C	NOT TESTED
The second	Cr	ND	Constitution of the state of
A Property of the second	Br	ND ND	91 40, "By Uk, " Og " Ty, " of
2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cd Cd	ND -	DI GO CONTROL THE ROLL OF
The state of the	Pb	ND	Cr6+: NEGATIVE
11.	Hg	ND ND	(<0.02mg/kg WITH 50cm ²
	Cr	INCONCLUSIVE	WITH 50cm
and the second	Br	NA NA	THE STREET STREET STREET



TESTS CONDUCTED

SCREENED COMPONENTS		XRF RESULTS	CHEMICAL CONFIRMATION RESULT
	Cd C	ND ND	
	Pb	ND	
12.	Hg	ND ND	NOT TESTED
	Cr	ND S	The state of the s
5 5 37	Br	AND STATE	
13.		NOT TESTED	Cd: ND(<2ppm) Pb: ND(<2ppm) Hg: ND(<2ppm) Cr ⁶⁺ : NEGATIVE
			(<0.02mg/kg WITH 50cm ²)
	07 N J	ND	(<0.02mg/kg
	3/37/		(<0.02mg/kg
14.	ca	ND	(<0.02mg/kg
14.	Cd Pb	ND ND	(<0.02mg/kg WITH 50cm ²)
14.	Cd Pb	ND ND ND	(<0.02mg/kg WITH 50cm ²)
14.	Cd Pb Hg Cr	ND ND ND	(<0.02mg/kg WITH 50cm ²)
14.	Cd Pb Hg Cr Br	ND ND ND ND NA ND ND NA	(<0.02mg/kg WITH 50cm ²) NOT TESTED Cr ⁶⁺ : NEGATIVE
14.	Cd Pb Hg Cr Br Cd	ND ND ND NA ND	(<0.02mg/kg WITH 50cm ²) NOT TESTED Cr ⁶⁺ : NEGATIVE (<0.02mg/kg
	Cd Pb Hg Cr Br Cd Pb	ND ND ND ND NA ND ND NA	(<0.02mg/kg WITH 50cm ²) NOT TESTED

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

Intertek Testing Services Shenzhen Ltd.-TFH Division
7/F.,Shekou Technology Main Building,Industrial 7th Road, Shekou,Shenzhen,China
Tel:(86-755)2683 7000 Fax:(86-755)2683 7118/9 Postcode:518067
www.intertek.com www.intertek-labtest.com.cn China Toll-Free: 800 999 1338
Attention is drawn to the terms and conditions printed overleaf.



TESTS CONDUCTED

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

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

P = PASS

X = INCONCLUSIVE RESULT

F = FATL

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	50.0	70 //20	70
Pb	100	200 / 200	200
Hg	100	200 /	200
Cr	100	200	200 8 8
Br	200	NOT APPLICABLE	/ / 200 0 0



TESTS CONDUCTED

(D) CHEMICAL CONFIRMATION TEST METHODS:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd)	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.



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.

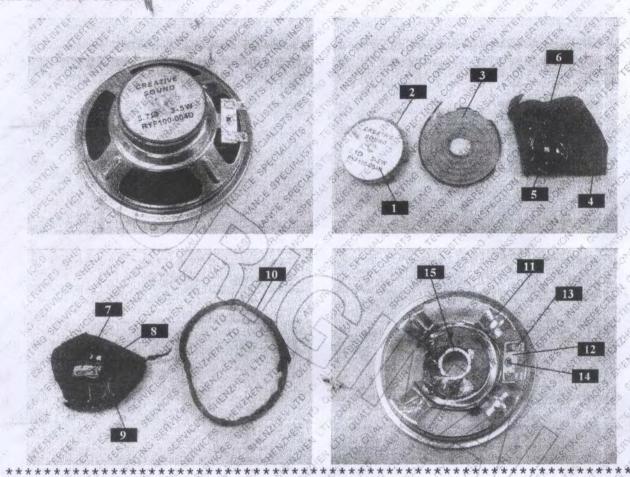
THE RESULTS SHOWN IN THIS XRF SCREENING AND CHEMICAL CONFIRMATION TEST REPORT WILL DIFFER BASED ON VARIOUS FACTORS, INCLUDING BUT NOT LIMITED TO, THE SAMPLE SIZE, THICKNESS, AREA, SURFACE FLATNESS, EQUIPMENT PARAMETERS AND MATRIX EFFECT (e.g. PLASTIC, RUBBER, METAL, GLASS, CERAMIC ETC.). FURTHER WET 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





TESTS CONDUCTED



END OF 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

Sr. Engineer



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No.: GZ0707098676/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)	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

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



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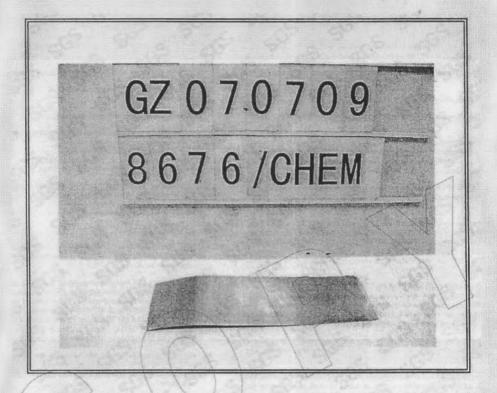
Test Report

No.: GZ0707098676/CHEM

Date: JUL 18, 2007

Page 3 of 3

Sample photo:



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Test Report

No. 8H7013378/ CHEM 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

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 92321 Ed 111/54/CDV for Gladmium 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 111/64/CDV for Mercury confe

Analysis was performed by ICP.

(4) With reference to IEC 52321 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

Elta Zhang /

Sr. Section Head

Signed for and on behalf of SGS-CSTC Chemical Laborator

12:40



Test Report

Test results by chemical mathed (Unif-motor)

Icalien(a):	Method (refer to)	i	
Cadmium(C2)	(1)	ND	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Leact (Rb) Yes	(2)	ND	2 (000
Mercury (Hg)	(3)	ND	1000
Hexavaleri Chromium (CiVI)	(4)	ND	2 1000

- (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//
 directive 2002/95/EC

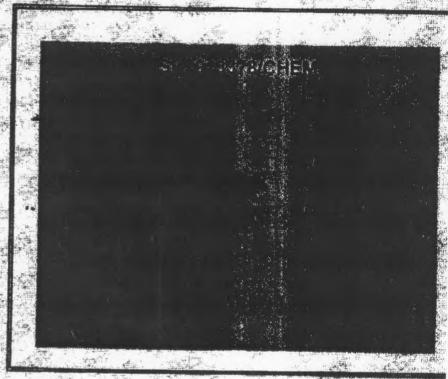


Test Report

No. SH701337N/CHEM

Date: Feb. 8, 2007

Sample photo:



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** End of 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 nun page.

Signed for and on behalf of SGS-CSTC Ltd.

Jiang YongPing, Terry

Sr. Engineer

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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	Talky In	N.D.	
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl	JE 46	N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl	0.57	N.D.	5
Hexabromobiphenyl	97	N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl	1.6	N.D.	5
Nonabromobiphenyl	37	N.D.	5
Decabromobiphenyl	(5)	N.D.	5
Sum of PBDEs	(5)	N.D.	98-2
Monobromodiphenyl ether	- C. S. S. S.	N.D.	5
Dibromodiphenyl ether	18/18	N.D.	5
Tribromodiphenyl ether	1	N.D.	5
Tetrabromodiphenyl ether	1	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	0.53	N.D.	5
Decabromodiphenyl ether	100	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

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Guangzhod Agolopa 800 mai Laboratory.

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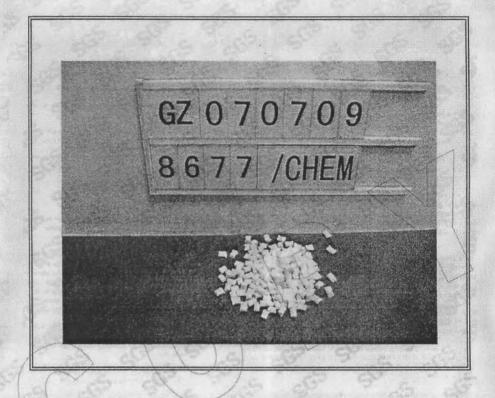
No.: GZ0707098677/CHEM

P25

Date: JUL 18, 2007

Page 3 of 3

Sample photo:



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Test Report

No.: GZ0702024726/CHEM

Date: MAR 07, 2007

Page 1 of 3

SEA INCRESCICE PLASTIC PRODUCE
PRECINT BAOHAO OF THE HOUJIE 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

.1 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 52321 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.

工程专用章

Signed for and on behalf of SGS-CSTC Ltd.

ang YongPing, Terry

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Test Report

No.: GZ0702024726/CHEM

Date: MAR 07, 2007

Page 2 of 3

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

Test Item(s):	Method (refer to)	No.1	JCM
Cadmium(Cd)	(1)	N.D	2
Lead (Pb)	(2)	5	2
Mercury (Hg)	(3)	N.D	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D	2
Sum of PBBs		N.D.	-
Monobromobiphenyl	1 1	N.D.	5
Dibromobiphenyl	1	N.D i	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	/5\	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	18.00	AND -	

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

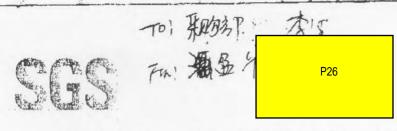
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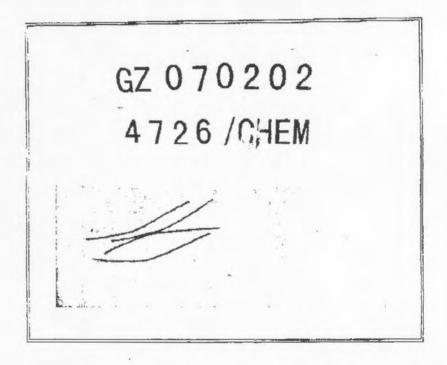


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Date MAR 07, 2007

Page 3 of 3

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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

Engineer



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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

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



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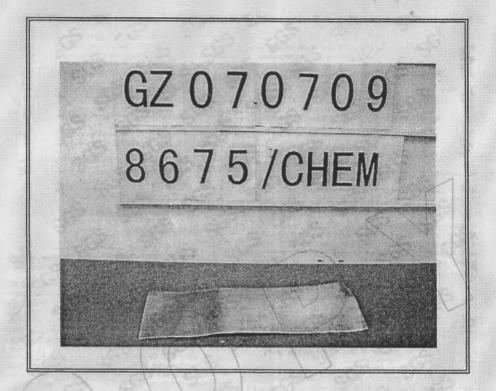
Test Report

No.: GZ0707098675/CHEM

Date: JUL 18, 2007

Page 3 of 3

Sample photo:



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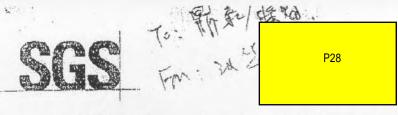
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No GZ0701009583A/CHEM

Date: MAR (M. 2007

Page 1 of 5

HUAXIA COPPER WIRE (D.G) CO., LTO 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 05, 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 Haxavalent Chromium content in this submitted sample.

Test Method

: A: 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 Color metric Method.
- (5) Determination of PBBs and PBDEs by GC-MS.

E: As specified by client, with reference to EPA 3060A 1395 & EPA 7196A: 1992.

(6) Determination of Hexavalent Chromlum by Color metric 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.

YongPing. Terry

Sr Engineer

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a sgs china@sgs.com



No. GZ0701009563A/CHEM Dat. MARCOL 2007

Page 2 of 5

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

"est (ten)(s):	(refer to)	No.1	MOL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	7	2	1300
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrV!) by Spot test	(4)	Negative	See Note (5)	#
Sum of PBBs		N.D.	-	1000
Monobromobipheny!		N.D.	- 5	
Dibromobiphenyl		N.D.	5	
Tribromobiphenyl		NO.	3 7	
Tetrabromobiphenyl		N.D.	5 77	
Pentabromobiphenyl		ND.	£	
Hexabromobiphenyl		ND.	6 1	
Heotabromobiphenyl		N.O	¥	
Octabromobipheny!		NO.	5	-
Nonabromobiphenyl		NO	5	
Decabromobiphenyl.	!	N.D.		
Sum of PBDEs (Mono to None) (Note 4)	(5)	N.D.		1000
Monobromodiphenyl ether		N.D	3	
Dipromodiphenyl ether		ND	the control of the co	
Tribromodiphenyl ether	j	N.D.		
Tetrabromodiphenyl ether	[N.D I	S	
Pentabromodiphenyl ether		N.D	5	
Hexabromodiphenyl ether	i	N.D	5	***************************************
Heptabromodiphenyl ether		N.D	5	
Octabromodiphenyl ether		N.D i	5 1	
Nonabromodiphenyl ether		N.D.	5 1	
Decabromociphenyl ether		N.D.	5	
Sum of PBDEs (Mono to Deca)		N.D.		*

Test Item(s):	Method (refer to:	No.t	- 4:D.
Hexavalent Chromium (CrVI) by alkaline extraction	(6)	N.D.	W. Car
Fact Park Fascription: No.1 Silvery plated metal wire	1	工程专	油 用章

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No: GZ0701009563A/CHEM

Date: MAIR 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 DecaBCE is exempt.

(5) Spot-test:

Negative = Absence of CrVI coating Positive = Presence of CAVI 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 CrV, coating

Positive = Presence of CIVI coating; the detected concentration in politing-water-extraction solution is equaor 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 lodicates the absence of CrVI on the tested ateas and design be regarded as no conflict with RoHS requirement

(7) " = Not regulated

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

(9) Results in GZ0611172717/CHEM refer to test report GZ0511165539/CHEM.



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GZCM 1166157

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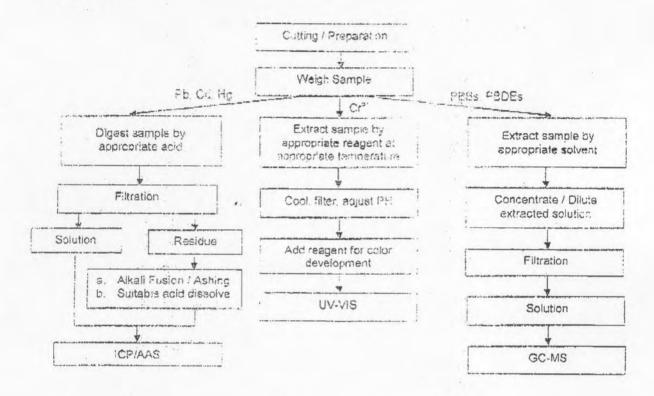
No. GZ0701009563A/CHEM

Date: MAR 66, 2007

Page 4 of 5

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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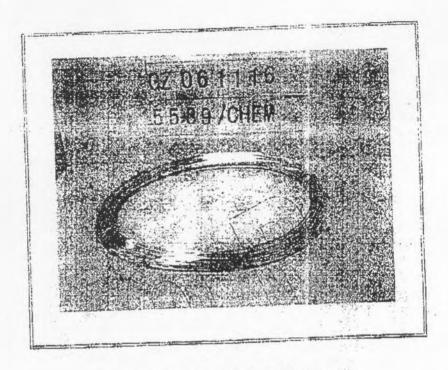


No.: GZ0701009563A/CHEM

Date, NAR JS, 2007

Page 5 of 5

Sample photo.



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No.: GZ0705069465/CHEM

Date: MAY 23, 2007

Page 1 of 3

SHEN ZHEN NA PU METALLIC CO., LTD NO.7 ZHEN XING ROAD, BUYONG 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

est Requested

: To determine the Cadmium, Lead, Mercury & Hexavalent Ch

submitted sample.

nt in the

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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f (86-20) 82075425



No.: GZ0705069465/CHEM

Date: MAY 23, 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)	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.



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No.: GZ0705069465/CHEM

Date: MAY 23, 2007

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Sample photo:



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No.: GZ0703029657/CHEM

Date: MAR 14, 2007 HIP age for

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.

1 en ju

Jishg YongPing, Terry

Sr. Engineer



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No.: GZ0703029657/CHEM

Date: MAR 14, 2007

Page 2 of 4

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

Test !tem(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Wercury (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	(5)	N.D.	5
Sum of PBDEs	(3)	N.D.	
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether	1	N.D.	5
Tetrabromodiphenyl ether			
Pentabromodiphenyl ether		P29	
Hexabromodiphenyl ether			
Heptabromodiphenyl ether			
Octaoromodiphenyl 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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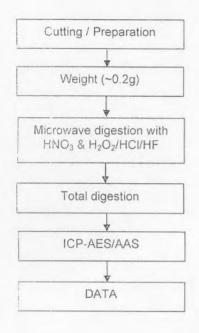


No.: GZ0703029657/CHEM

Date: MAR 14, 2007 Page 3 of 4

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

ical Laboratory.

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198 Kethu Paad SCENTECH Part Gangatou Economic & Technology Developmen Distric Gangatou Chine 510663 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075125 t (86-20) 82155555 f (86-20) 82075125

GZCM 1 1 7 3 5 0 0 f (86-20) 82075125 www.cn.sys.com

e sgs.china@sgs.com



No.: GZ0703029657/CHEM



Sample photo:

GZ 0 7 0 3 0 2 9 6 5 7 / CHEM

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GZCM 1173499



测试报告

编号: G20705068568/CHEM 日期:2007年5月-22日 页码 1 of 3

水利艦(佳信)五金电子电镀有限公司 深圳市公園镇江边第三工业区

以下测试之世品是由申请者所提供及确认。铁克莱利 容户参考信息、课

SGS 参寿编号

GZ10380171EC-3,2

收饭日期

: 2007年5月16日

测试互用

2007年6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 电子电器产品中限型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) 用比色法测定六价格的含量

测试结果

广谱参见下一页

测试结论

基于所送粹品进行的测试。测试结果与欧盟 RoHS 指令 2002/95/EC 以及医线修正指令的思 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 recort 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,表赤结果与 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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GZCM 1311395

SGS TE Standards Technical Schools Co., Ltd.

188Keth Real SCENTECH Pat Counghou Exmonic & Technolog Development District Googshou Chine 510663 中国,广州,经济技术开发区科学城科珠路198号 邮编: 510663

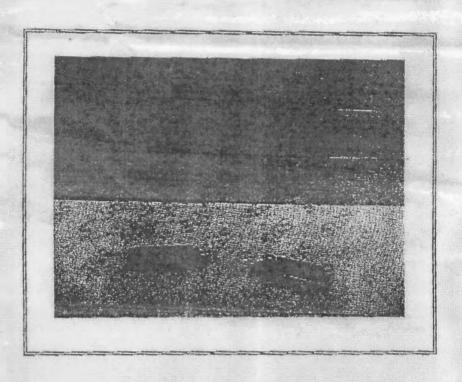
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f (86-20) 82075125 f (86-20) 82075125 www.cn.sgs.com e sgs.chlna@sgs.com SGS

测试报告

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

样品照片:



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*** 报告完 ***



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194 Kartu Roal SCENTECH Fan Guargeton Economic & Textrology Development Texts Classification, China 5 (1066)3 中国,广州·经济技术开发区科学城科珠路198号 邮编:510663

t (88-20) R2165568 t (85-20) 82155555 f (86-20) 82075125 f (86-20) 82075125

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

0200 1311396

Member of the SGS Group (SGS SA)

Td



NO., A0700280302342

Date, Mar 28, 2007

Page 7 of 4

Dustomer: DONGGUAN CITY LYZHIDAO SOLDERING TIN PRODUCT FACTORY

Address: Botcu Industry Zone, Chashan Town, Dongguan City

Report on the submitted sample said to be Sample hame: Land-free stannum thread

Model: Cu 0.7 Sri 99.3

Item/Lot No.: /

Material: /

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Buyer: /

Supplier: /

Manufacturer: I

Sample received date: Mar 23, 2007

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

Testing Requested

As specified by offent, to determine the Lead, Cadmium, Meroury, Haxavaient Chromium, PBB & PBDE content in the submitted sample in accordance with Directive 2002/96/EC (RoHS).

Testing method:

With reference to IEC 62321, Eq. 111/64CDV

Testing Item	Pretreatment method	Measuring Instrument Report Li		
Lead (Pb)	IEC 62321, section 11/13	ICP-OES	Report Limit	
Cadmium (Cd:	IEC 82321, section 11/13	ICP-DES	2mg/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	2 mg/kg	
	Jan	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

This Test Report is issued by the Company subject to its Conditions of issuance of Test Report printed overheaf or attached. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. The Tost Report shall not be reproduced expectors in full, without written approval of the Company.

AOV Testing Technology Co. Ltd

Address: Blog. 4. Gapta technology industry Zone, Longing Rd. Nensnan District. Shenzhan, P. R. Chica Tol. (85) 755-267/33000 Pax (86) 755-26753435 Http://www.sovi.com

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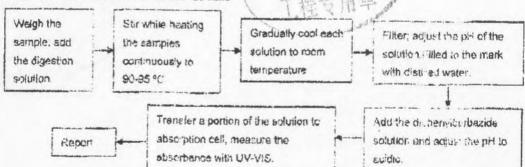
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1. 1

P32 **Test Report** NO:: A07032803C2342 Date: Mar 28, 2007 Page 2 of 4 Test Flow: 1. To Determine Lead Content: Add the digestion The sample is digested in the Weigh the sample into solution, close the microwave oven following a a vessel. microwave vesse! specific decomposition program. Cooling the vessel, filter, washed and Tested by ICP-OES Report filled to the mark with distilled water. 2. To Determine Cadmium Content: Added the acid classion Weigh the Cool down. Hydrogen peroxide is added. solution and heated until the sample into The sample is heated once again until decomposed solution turns a flask. white furnes are generated. pale yellow. Fitter; washed and filled to the Tested by ICP-OES Report mark with distilled water. 3. To Determine Mercury Content-Add the dicestion The sample is digested in the Weigh the sample into solution, close the microwave oven following a specific a vessel. microwave vessel. decomposition program. Cooling the vesser, filter, washed and Tested by CV-AAS Report filled to the mark with districed water. 4. To Determine Hexavalent Chromium Content: Weigh the Stir while heating Gradually cool each: Filter, adjust the pH of the sample, add the samples



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AOV Teating Technology Do. Ltd.

Address: Bidg. 4. Godfy Technology Industry Zone: Longing Fid. Nanohan District Shonzhon: P. F. Cont.

Tel: (88) 755-20753000 Fixx: 86-755-26765435 Http://www.sonl.com



10.2

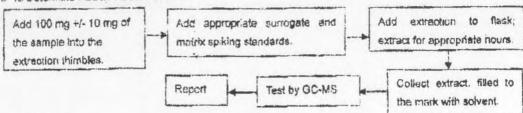
4 9 17

NO.: A07032803C2342

Date: Mar 28, 2007

Page 3 of 4

5 To Determine PBBs/PBDEs Content:



Test Results:

Item	Unit	Acceptable Limit	A
Lead (Pb)	mg/kg	1000	89.5
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	1	N.D.	
DIBS	mg/kg	1	N.D	
TriBB	mg/kg+	. 1	N.D.	
TetraBB	mg/kg	I	N.D	1
PentaBB	mg/kg	1	N.D.	
HexaBB	mg/kg	1	N.D.	
HeptaBB	mg/kg	1	N.D.	
OctaBB	mg/kg	1	N.D.	_
NonaBB	mg/kg	1	N.D	-
Deca88	mg/kg	1	N.D.	-
PBDEs	mg/kg	1000		
MonoBDE	mg/kg	i	N.D.	
DIBDE	mg/kg	1	N.D.	
THBDE	mg/kg	1	N.D.	
TeraBDE	mg/kg	1	N.D	
PentaBDE	mg/kg	1	N.D.	
HexaBDE	mg/kg	1	N.D.	
HeotaBDE	mg/kg	1	N.O.	
OctaBDE	mg/kg	1	N.D.	
NonaBDE	nig/kg	1	ND.	
DecaBDE	mg/kg	1	N.D.	-



- 14.4

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AOV Teeting Technology Co. Ltd

Address: Bidg. 4. Eacts Technology Industry Zone. Longing Rd., Nanshan District. Shanzhen, P. R. China Tel. (85) 755-25763000 Fax: (66) 755-26753435 http://www.acvi.com



NO.: A07032803C2342

Date: Mar 26, 2007

Page 4 of 4

Specimen Description:

At silver metal chroad

Note:

10 h 1: ...

4 41 11

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





Lead-free stannum thread



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ADV festing Technology Co. Ltd

Abdress Bidg in Gasts Technology Industry Zona, Lengtro Rd., Natishan English, Engineer P. R. China Tel. 86: 756-26103000 Fax: 1861-755-26753405 Ptb., Industry Sevinout



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



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.



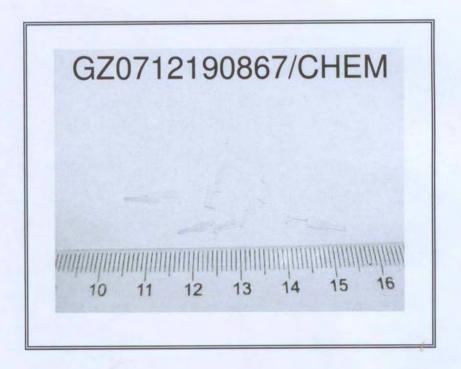


No.: GZ0712190867/CHEM

Date: DEC 21, 2007

Page 3 of 3

Sample photo:



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*** End of Report ***





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





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.





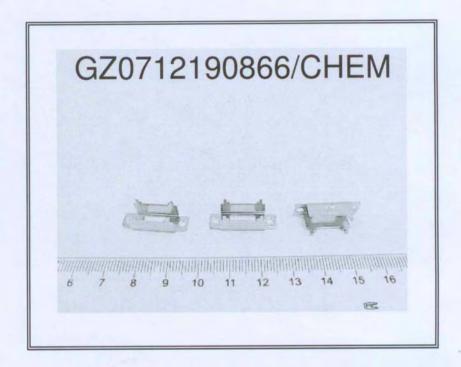
Test Report

No.: GZ0712190866/CHEM

Date: DEC 21, 2007

Page 3 of 3

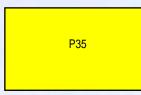
Sample photo:



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*** End of 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

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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	(5)	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





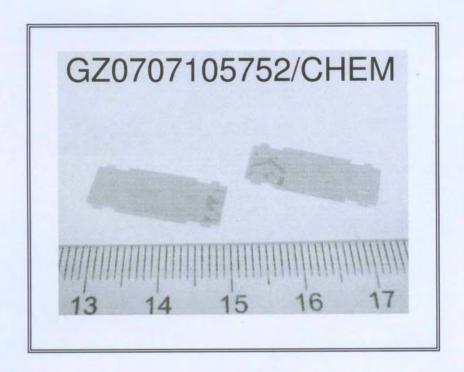
Test Report

No.: GZ0707105752/CHEM

Date: AUG 01, 2007

Page 3 of 3

Sample photo:



SGS authenticate the photo on original report only

*** 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





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		N.D.	
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl	1 [N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl	(E)	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

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

4. "-" = Not regulated





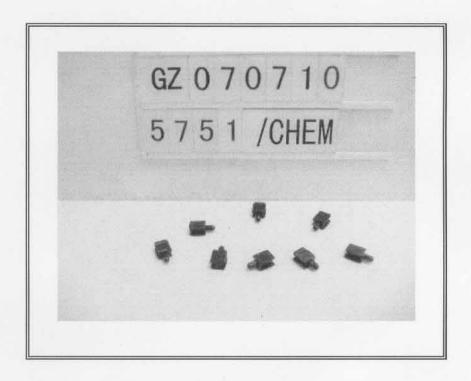


No.: GZ0707105751/CHEM

Date: AUG 01, 2007

Page 3 of 3

Sample photo:



SGS authenticate the photo on original report only

*** End of 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 BONG CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as 北色區性股本

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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No. GZ0712199380/CHEM

Date: JAN 04, 2008

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

No.1 Green liquid

Note: 1, mg/kg = ppm

2 N.D. = Not Detected (< MDL) 3. MDL = Method Detection Limit



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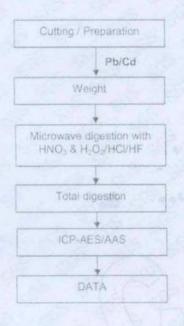
> Supply Supply Servicy Service Supply Supply Service 10063 1 (86-20) 32 155555 1 (89-20) 82075125 中国、广州、经济技术开发区科学城科课路198号 如编:510882 (36-2)82(55555 1/86-2)820(5)25

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.

David Shen : Emily Feng

Leader



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Ne : GZ0712199380/CHEM

Date: JAN 04, 2008 Page 4 of 4

Sample photo



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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 似也现象

SZ10776994-32,25

Buyer

Sample Receiving Date

DEC 29, 2007

Testing Period

: DEC 29, 2007 TO JAN 04, 2008

With reference to SONY SS-00259

To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted

sample

(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: 1998 & 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

Huang Fang, Sunny Sr. Engineer

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Date: JAN 04, 2008 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
.ead (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 Brown liquid

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



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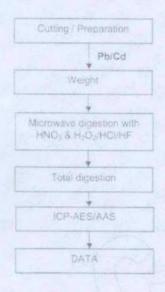
No.: GZ0712199378/CHEM

Dete: JAN 04, 2808

Page 3 of 4

ATTACHMENTS

Flow chart of test



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

Operator Leader

David Shen

Emily Feng



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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测试报告

P39

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:

裝蓋弹簧钢丝

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

资参见下一页

測试结果

请参见下一页

结论

基于所送祥品进行的测试,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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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

祥品1描述

: CAN08-025817.001

·银灰色金属线

RoHS指令2002/95/EC

Soil Aver m	验 (文	測试方法(参考)	测试结果	MIDE	POR LAK
测试项目		IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	100
镉 (Cd)	發克/十克	1EC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
∯ (Pb)	第元 /丁元	IEC 62321/2nd CDV (111/95/CDV), ICP-DES	N.D.	2	1000
汞 (Hg) 沸水萃取法测大价铬(Cr VI)	委兒十八	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	Negative	\Diamond	#

注释:

- 1. 毫克/千克 = ppm
- 2. N.D.= 未检出 (< MDL)
- 3. MDL = 方法检测限
- 4. 0 = 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满水萃取法进行测试)。

沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价格:每50cm²表面积的被测试样品的浇水萃取液中六价倍的浓度等于或大 于0:02mg/kg。

5. # Positive = 陌性 Negative = 開性

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,中英文版本如荷歧异,概以英文版为准。



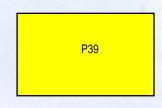
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测试报告

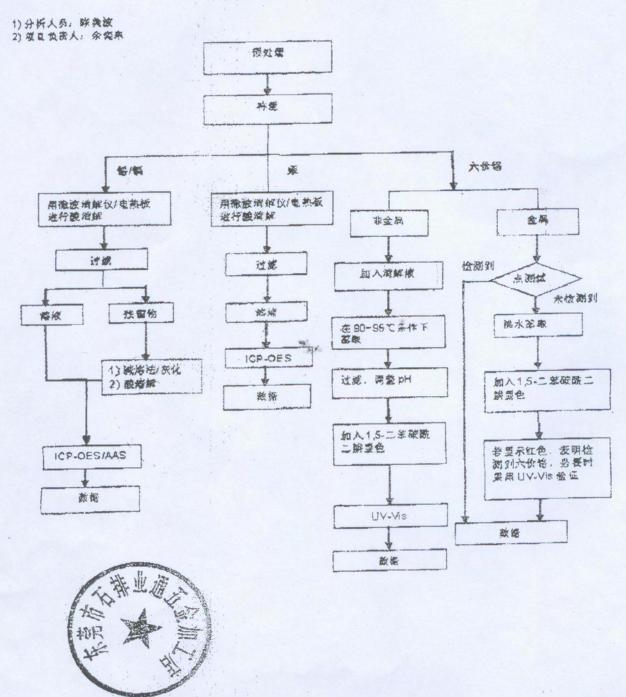


No. CANEC0802581702

日期: 2008年05月27日 第3页,共4页

附件

图别派定器



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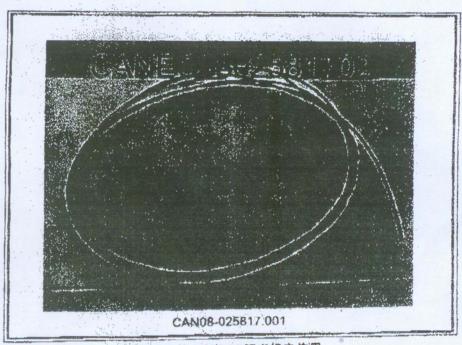
测试报告

P39

No. CANEC0802581702

日期: 2008年05月27日 第4页,共4页

样品照片:



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GZCM 2081539

测试报告 编号:GZSCR0809103587/LP

日期:2008年9月10日

顶码1of2

东莞市玮丰五金长

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

: S Z O 8 O 9 1 O 4 7 6 E C-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) 委托科品中的多溴联苯、多溴联苯醚的含量。

测试方法

: (1) 铝含量—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。 六价铬含量一参照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

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To: 12

测试报告

编号:GZSCR0809103587/LP

日期:2008年9月10日

页码2of2

测试结果:

(1)

紹含量(Pb) 網含量(Cd) 汞含量(Hg)

六价铬含量[Cr(V])]

银色金属

N. D. N. D.

N. D.

N. D.

畑な人屋



检测图

说明:-N. D. =没有检测到(<2ppm) -ppm=毫克/千克

(2)

阻燃剂	银色金属	TO THE PIX
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
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.	5ррш
四溴联苯醚	N. D.	5ppm
五溴联苯醚	N.D.	5ppm
六溴联苯醚	N. D.	5ррш.
七溴联苯醚	N. D.	5ppm
八溴联苯醚	N.D.	5ррш
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

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P41

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.

Buver

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



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198 Kezhu Road SCIENTECH Park Guangzhou Economic & Technology Development District Guangzhou, China 510663 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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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	\rightarrow	#

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.

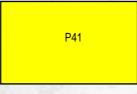
6. "- " = Not regulated

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GZCM 1980736



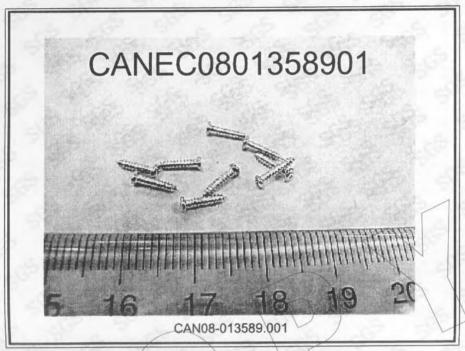


No. CANEC0801358901

Date: 06 Apr 2008

Page 3 of 3

Sample photo:



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http://w

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

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

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)

Took Home (a):	Method	Result	MDI
Test Item (s):	(Refer to)	No.1	MDL
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		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	(5)	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:

SILVER COLORED METAL NO.1

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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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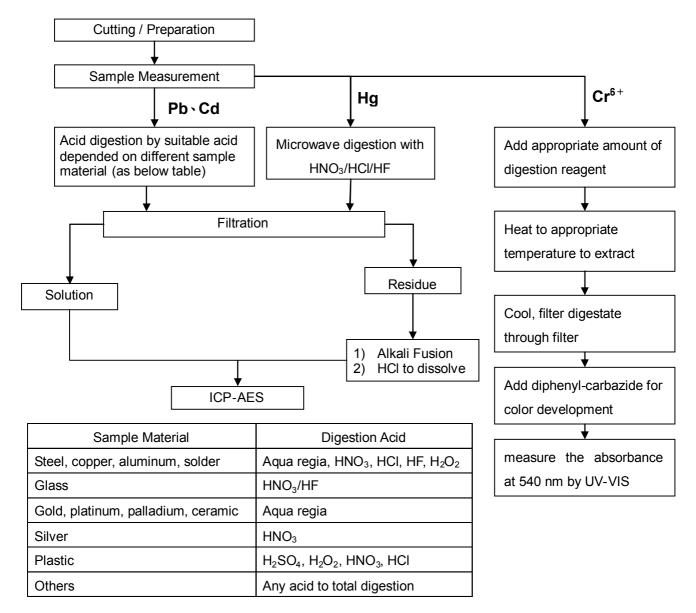


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SHENMAO TECHNOLOGY INC.

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



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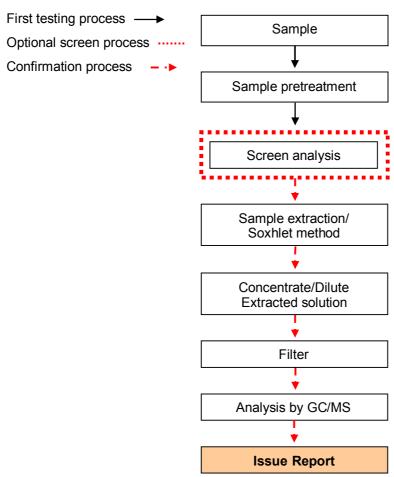
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SHENMAO TECHNOLOGY INC. NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN **COUNTY 328, TAIWAN**



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

TEST FOR: SUMITOMO METAL MINING ASIA PACIFIC PTE LTD. (SMMAP GROUP CORPORATE HEADQUARTER)35/41 KALLANG PLACE, SINGAPORE 339163.

Report No.: KA/2007/C2817R3

Date : 2008/02/12 Page : 1 of 21

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**

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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

: 2008/02/12 Date

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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	skr skr	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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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
Bismuth (Bi)	mg/kg	With reference to US EPA 3052.	2	n.d.
		Analysis was performed by ICP-AES.		
Antimony (Sb)	mg/kg	With reference to US EPA 3052.	2	n.d.
		Analysis was performed by ICP-AES.		
Selenium (Se)	mg/kg	With reference to US EPA 3052.	2	n.d.
		Analysis was performed by ICP-AES.		
Mirex	mg/kg	With reference to US EPA 3540C.	4	n.d.
(CAS NO.: 002385-85-5)		Analysis was performed by GC/ECD.		
Formaldehyde	mg/kg	With reference to DIN 53315.	3	n.d.
(CAS NO.: 000050-00-0)		Analysis was performed by		
		HPLC/DAD.		<u></u>
Chlorinated Paraffin	%	With reference to US EPA 3540C.	0.01	n.d.
(C10~C13)		Analysis was performed by GC/ECD.		
(CAS NO.: 010871-26-2)				
PCBs	mg/kg	With reference to US EPA 3540C.	0.5	n.d.
(Polychlorinated Biphenyls)		Analysis was performed by GC/ECD.		
(CAS NO.: 001336-36-3)				
Polychlorinated Naphthalene	mg/kg	With reference to US EPA 3540C.	5	n.d.
		Analysis was performed by GC/MS.		
PCTs	mg/kg	With reference to US EPA 3540C.	0.5	n.d.
(Polychlorinated Terphenyls)		Analysis was performed by GC/MS.		
PVC	**	Analysis was performed by	:=8	Negative
(CAS NO.: 9002-86-2)		FTIR/ATR and FLAME Test.		
TBBP-A	mg/kg	With reference to US EPA 3540C.	10	n.d.
(CAS NO.: 000079-94-7)		Analysis was performed by GC/MS.		
Sum of PBBs	*			n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl		With reference to US EPA 3540C for	5	n.d.
Pentabromobiphenyl	mg/kg	PBBs/PBDEs Content. Analysis was	5	n.d.
Hexabromobiphenyl		performed by GC/MS.	5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl		<u> </u>	5	n.d.

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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
rest item (s)	Oilit	Mediod		No. 1
Sum of PBDEs (Mono to			-	n.d.
Nona)(Note 4)	╛			
Monobromobiphenyl ether			5	n.d.
Dibromobiphenyl ether			5	n.d.
Tribromobiphenyl ether			5	n.d.
Tetrabromobiphenyl ether		With reference to US EPA 3540C for	5	n.d.
Pentabromobiphenyl ether	mg/kg	PBBs/PBDEs Content. Analysis was	_ 5	n.d.
Hexabromobiphenyl ether		performed by GC/MS.	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		With reference to IEC 62321, ED.1 (111/54/CDV). Determination of PBBs and PBDEs by GC/MS.	-	n.d.
Monobromobiphenyl]		5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl	\perp marka i		5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl] '''g/kg		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			-	n.d.
Nona)(Note 4)				1.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether	7		5	n.d.
Tribromodiphenyl ether	7		5	n.d.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321, ED.1	5	n.d.
Pentabromodiphenyl ether		(111/54/CDV). Determination of	5	n.d.
Hexabromodiphenyl ether		PBBs and PBDEs by GC/MS.	5	n.d.
Heptabromodiphenyl ether	7		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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	T			Result
Test Item (s)	Unit	Method	MDL	No. 1
Asbestos	†			
Anthrophyllite	%	As per NIOSH 9000 method.	1	Negative
(CAS NO.017068-78-9)		Analysis was performed by XRD.		3
Crocidolite	%	As per NIOSH 9000 method.	1	Negative
(CAS NO.012001-28-4)		Analysis was performed by XRD.		3
Amosite	%	As per NIOSH 9000 method.	1	Negative
(CAS NO.012172-73-5)		Analysis was performed by XRD.		3
Tremolite	%	As per NIOSH 9000 method.	1	Negative
(CAS NO.014567-73-8)		Analysis was performed by XRD.		
Chrysotile	%	As per NIOSH 9000 method.	1	Negative
(CAS NO.012001-29-5)		Analysis was performed by XRD.		
Actinolite	%	As per NIOSH 9000 method.	1	Negative
(CAS NO.013768-00-8)		Analysis was performed by XRD.		
Phthalates				
DBP(Di-butyl phthalate)	%	With reference to Chromatographia	0.003	n.d.
(CAS No.000084-74-2)		Vol.47, No.784, 1998. Analysis was		
,	1	performed by GC/MS.		
DEHP(Di-(2-ethylhexyl phthalate))	%	With reference to Chromatographia	0.003	n.d.
(CAS No.000117-81-7)		Vol.47, No.784, 1998. Analysis was		
,		performed by GC/MS.		
DIDP(Di-isodecyl phthalate)	%	With reference to Chromatographia	0.003	n.d.
(CAS No.026761-40-0)		Vol.47, No.784, 1998. Analysis was		
,	}	performed by GC/MS.		
DINP(Di-isononyl phthalate)	%	With reference to Chromatographia	0.003	n.d.
(CAS No.028553-12-0)	1	Vol.47, No.784, 1998. Analysis was		
		performed by GC/MS.		
BBP(Benzyl butyl phthalate)	%	With reference to Chromatographia	0.003	n.d.
(CAS No.000085-68-7)		Vol.47, No.784, 1998. Analysis was		
		performed by GC/MS.		
DNOP(Di-n-octyl phthalate)	%	With reference to Chromatographia	0.003	n.d.
(CAS No.000117-84-0)		Vol.47, No.784, 1998. Analysis was		
<u> </u>		performed by GC/MS.		
Organic-TIN compounds				
Tributyl Tin(TBT)	mg/kg	With reference to DIN 38407-13.	0.03	n.d.
(CAS NO.: 000688-73-3)		Analysis was performed by GC/FPD.		
Triphenyl Tin(TphT)	mg/kg	With reference to DIN 38407-13.	0.03	n.d.
(CAS NO.: 000668-34-8)		Analysis was performed by GC/FPD.		
The state of the s				

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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

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Toot Itom (a)	I Imi6	Mathad	BADI	Result
Test Item (s)	Unit	Method	MDL	No. 1
PERFLUOROCARBON(PFC)				
-14	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS		
		linked Headspace.		L
Fluorocarbon 116	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS		
		linked Headspace.		
Freon 218	mg/kg	With reference to US EPA 8260.	1 1	n.d.
		Analysis was performed by GC/MS	1	
		linked Headspace.		
Decafluorobutane	mg/kg	With reference to US EPA 8260.	1 1	n.d.
	1	Analysis was performed by GC/MS	<u> </u>	. =
		linked Headspace.	<u> </u>	
Freon C 318	mg/kg	With reference to US EPA 8260.	1 1	n.d.
		Analysis was performed by GC/MS		
		linked Headspace.		
Perfluoro-1-butene	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS		
		linked Headspace.		
Perfluoroisobutene	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS		
		linked Headspace.	<u> </u>	
1,4-Dihydrooctafluorobutane	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS		
		linked Headspace.		
Nonafluoro-2-(trifluoromethyl)butane	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS	1]
	-	linked Headspace.		
Perfluoro-n-pentane	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS	1	
	<u> </u>	linked Headspace.	ļ	
2-Perfluoromethylpentane	mg/kg	With reference to US EPA 8260.	1	n.d.
	1	Analysis was performed by GC/MS		
		linked Headspace.	<u> </u>	

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Perfluorohexane	mg/kg	With reference to US EPA 8260.	1 1	n.d.
		Analysis was performed by GC/MS		
		linked Headspace.		
CFCs(Chlorofluorocarbons) & HALON				 -
Chlorofluorocarbon-11	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000075-69-4)	I mg/mg	Analysis was performed by GC/MS	· '	11.00.
(3/13/170.: 0000/0 00 4)		llinked Headspace.		
Chlorofluorocarbon-12	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000075-71-8)	9/9	Analysis was performed by GC/MS	[11.4.
(3.13.113.13.33.13.1.3)		linked Headspace.		
Chlorofluorocarbon-113	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000076-13-1)	13	Analysis was performed by GC/MS		
(0.15.170.0000000000000000000000000000000		linked Headspace.		
Chlorofluorocarbon-114	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000076-14-2)		Analysis was performed by GC/MS		
(- · · · · · · · · · · · · · · · · · ·		linked Headspace.	1	
Chlorofluorocarbon-115	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000076-15-3)		Analysis was performed by GC/MS		
,		linked Headspace.		
Chlorofluorocarbon-13	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000075-72-9)		Analysis was performed by GC/MS		
		linked Headspace.		
Chlorofluorocarbon-111	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000354-56-3)		Analysis was performed by GC/MS		
		linked Headspace.		<u></u>
Chlorofluorocarbon-112	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000076-12-0)		Analysis was performed by GC/MS		
		linked Headspace.		
Chlorofluorocarbon-211	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 135401-87-5)		Analysis was performed by GC/MS		
		linked Headspace.		
Chlorofluorocarbon-212	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 076564-99-3)		Analysis was performed by GC/MS		
		linked Headspace.		
Chlorofluorocarbon-213	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 060285-54-3)		Analysis was performed by GC/MS		
		linked Headspace.		

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Chlorofluorocarbon-214	mg/kg	With reference to US EPA 8260.	1	n.d.
CAS NO.: 002268-46-4)	1	Analysis was performed by GC/MS		
		linked Headspace.		
Chlorofluorocarbon-215	mg/kg	With reference to US EPA 8260.	1	n.d.
CAS NO.: 000076-17-5)		Analysis was performed by GC/MS		
		linked Headspace.	,	
Chlorofluorocarbon-216	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 001652-80-8)		Analysis was performed by GC/MS		
		linked Headspace.		
Chlorofluorocarbon-217	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000422-86-6)		Analysis was performed by GC/MS		,
,		linked Headspace.		-5'
HALON-1211	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS	1	
	-	linked Headspace.	ŀ	
HALON-1301	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS		
	1	linked Headspace.	1	
HALON-2402	mg/kg	With reference to US EPA 8260.	1	n.d.
		Analysis was performed by GC/MS	ļ	
		linked Headspace.		
HCFC's	(311)	4-8		
(Hydrogenated				
chlorofluorocarbons)			,	
Hydrochlorofluorocarbon-21	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000075-43-4)	mg/kg	Analysis was performed by GC/MS		11.0.
(CAS NO.: 000073-45-4)		linked Headspace.		
Hydrochlorofluorocarbon-22	mg/kg	With reference to US EPA 8260.	1	n.d.
(CAS NO.: 000075-45-6)	mg/kg	Analysis was performed by GC/MS		11.0.
(CAS NO.: 000075-45-0)		linked Headspace.		
Hydrochlorofluorocarbon 31	mg/kg	With reference to US EPA 8260.	1	n.d.
Hydrochlorofluorocarbon-31	Ilig/kg	1		11.0.
(CAS NO.: 000593-70-4)	1	Analysis was performed by GC/MS		
Lludrachlarofluorocerbon 101	maller	linked Headspace. With reference to US EPA 8260.	1	
Hydrochlorofluorocarbon-121	mg/kg		11	n.d.
(CAS NO.: 130879-71-9)		Analysis was performed by GC/MS		
		linked Headspace.	<u> </u>	

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

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

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

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

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

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

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Test Report

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Report No.: KA/2007/C2817R3

Date : 2008/02/12

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Test Item (s)	Result
(CAS NO.97-56-3) 6):2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8) 7):P-CHLOROANILINE (CAS NO.106-47-8) 8):2,4-DIAMINOANISOLE (CAS NO.615-05-4) 9):4,4- DIAMINODIPHENYLMETHANE (CAS NO.101-77-9) 10):3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4) 12):3,3-DIMETHYLBENZIDINE (CAS NO.199-3-7) 4,4-DIAMINODIPHENYLMETHAN (CAS NO.838-88-0) 14):P-CRESIDINE (CAS NO.120-71-8) 15):4,4-METHYLENE-BIS- (CAS NO.101-14-4) (CAS NO.101-14-4) (CAS NO.101-14-4) (CAS NO.101-14-4) (CAS NO.101-18) 16):4,4-THIODIANILINE (CAS NO.101-80-4) 17):4,4-THIODIANILINE (CAS NO.119-96-1) 16):2,4-DRAMILINE (CAS NO.101-14-4) (CAS NO.101-14-4) (CAS NO.101-18-0-4) 17):4,4-THIODIANILINE (CAS NO.101-18-1) 17):4,4-THIODIANILINE (CAS NO.101-80-4) 18):O-TOLUIDINE (CAS NO.199-65-1) 19):2-4-TOLUYLENDIAMINE Mg/kg With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	No. 1
6):2-AMINO-4-NITROTOLUENE (CAS NO. 99-55-8) (CAS NO. 99-55-8) (CAS NO. 106-47-8) 8):2,4-DIAMINOANISOLE (CAS NO. 101-77-9) 10):3,3-DICHLOROBENZIDINE (CAS NO. 119-93-7) 13):3,3-DIMETHYLBENZIDINE (CAS NO. 119-93-7) 13):3,3-DIMETHYL- 4,4-DIAMINODIPHENYLMETHAN (CAS NO. 139-8-8-8) (CAS NO. 120-71-8) 14):P-CRESIDINE (CAS NO. 120-71-8) 15):4,4-METHYLENE-BIS- (CAS NO. 101-14-4) 16):4,4-METHYLENE-BIS- (CAS NO. 101-14-4) 16):4,4-THIODIANILINE (CAS NO. 119-965-1) 16):4,4-THIODIANILINE (CAS NO. 119-965-1) 17):4,4-THIODIANILINE (CAS NO. 119-965-1) 18):O-TOLUIDINE (CAS NO. 139-65-1) (CAS NO. 19-96-6) 19):2-4-TOLUYLENDIAMINE Mg/kg With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 With reference to LMBG 82.02-2. 3 With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With reference to LMBG 82.02-2. 3 Analysis was performed by GC/MS. With referenc	n.d.
CAS NO.99-55-8	
7):P-CHLOROANILINE (CAS NO.106-47-8) (CAS NO.106-47-8) (CAS NO.106-47-8) (CAS NO.106-47-8) (CAS NO.615-05-4) (CAS NO.615-05-4) (CAS NO.615-05-4) (CAS NO.101-77-9) (CAS NO.101-77-9) (CAS NO.101-77-9) (CAS NO.91-94-1) (CAS NO.119-90-4) (CAS NO.119-93-7) (CAS NO.119-93-7) (CAS NO.119-93-7) (CAS NO.33-BIMETHYL- 4,4-DIAMINODIPHENYLMETHAN (CAS NO.838-88-0) (CAS NO.120-71-8) (CAS NO.120-71-8) (CAS NO.101-80-4) (CAS NO.101-80-4) (CAS NO.101-80-4) (CAS NO.101-80-4) (CAS NO.119-83-65-1) (CAS NO.139-65-1) (CAS NO.199-65-3-4) (CAS NO.95-53-4) (CAS NO.95-53-4) (With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS. With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	n.d.
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	n.d.
	n.d.
20):2,4,5-TRIMETHYLANILINE mg/kg With reference to LMBG 82.02-2. 3	n.d.
(CAS NO.137-17-7) Analysis was performed by GC/MS.	II.U.
21):O-ANISIDINE mg/kg With reference to LMBG 82.02-2. 3	n.d.
(CAS NO.90-04-0) Analysis was performed by GC/MS.	II.W.
22):P-AMINOAZOBENZENE mg/kg With reference to LMBG 82.02-Z. 3	n.d.
(CAS NO.60-09-3) Analysis was performed by GC/MS.	H.G.
23):2,4-XYLIDINE mg/kg With reference to LMBG 82.02-2. 3	n.d.
(CAS NO.95-68-1) Analysis was performed by GC/MS.	H.U.

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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

Page : 16 of 21

Numer 65 milet of the tes white 12 milet				
Test Item (s)	Unit	Method	MDL	Result
restricin (s)	Ollit	Wettlod	IVIDE	No. 1
AVO O VOCIDINE		14/16 famour - to 1 14DO 00 00 0		- 1

rest item (s)	Ollit	Metilod	INIDL	No. 1
24):2,6-XYLIDINE	mg/kg	With reference to LMBG 82.02-2.	3	n.d.
(CAS NO.87-62-7)	_] []	Analysis was performed by GC/MS.		
Halogen				
Halogen-Chlorine (Cl)	mg/kg	With reference to BS EN 14582.	50	n.d.
(CAS NO.: 007782-50-5)		Analysis was performed by IC		
,		method for Chlorine content.		
Halogen-Fluorine (F)	mg/kg	With reference to BS EN 14582.	50	n.d.
(CAS NO.: 007782-41-4)		Analysis was performed by IC		
,		method for Fluorine content.		
Halogen-Bromine (Br)	mg/kg	With reference to BS EN 14582	50	n.d.
(CAS NO.: 007726-95-6)		.Analysis was performed by IC	[[
,		method for Bromine content.		
Halogen-lodine (I)	mg/kg	With reference to BS EN 14582.	50	n.d.
(CAS NO.: 007553-56-2)		Analysis was performed by IC		
,		method for lodine content.]	

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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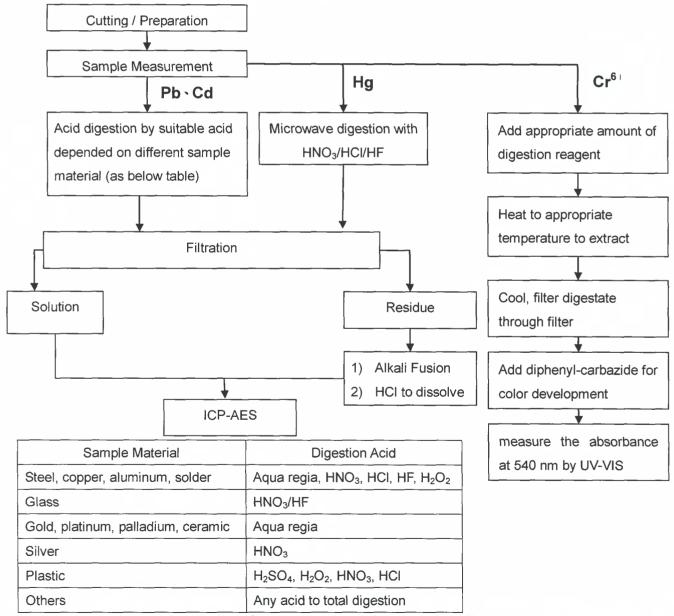
Test Report

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 Page : 17 of 21

- 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



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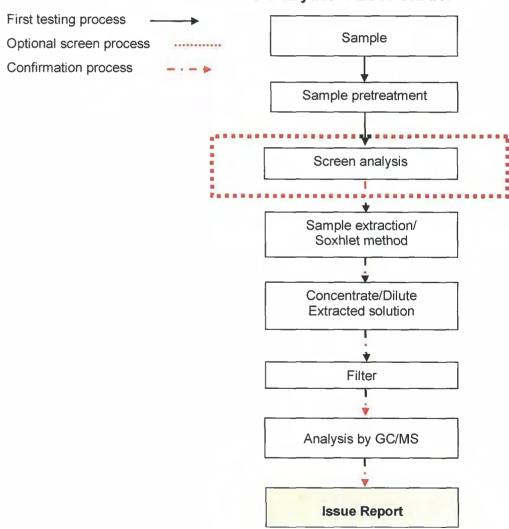
Test Report

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

: 2008/02/12 Page : 18 of 21

PBB/PBDE analytical FLOW CHART



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

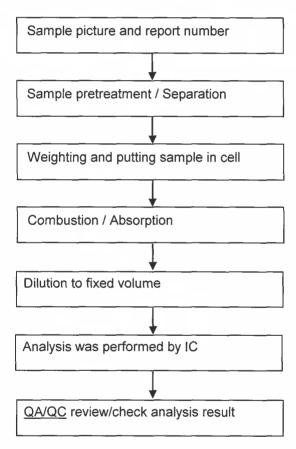
Report No.: KA/2007/C2817R3

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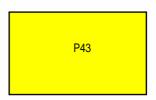
Analytical flow chart of halogen content

P43



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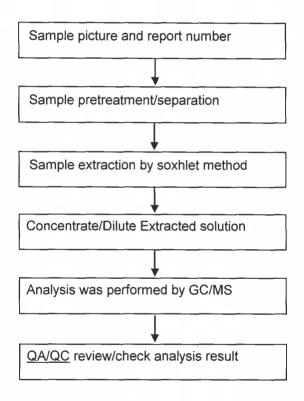


SUMIKO ELECTRONICS TAIWAN CO., LTD. NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE, KAOHSIUNG, TAIWAN, R. O. C

Report No.: KA/2007/C2817R3

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Analytical flow chart of phthalate content





P43

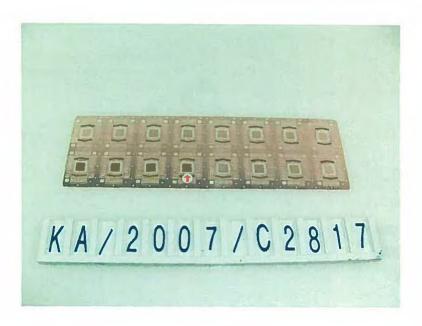
SUMIKO ELECTRONICS TAIWAN CO., LTD. NO. 16, EAST 7TH ST., NAN-TZE EXPORT PROCESSING ZONE. KAOHSIUNG, TAIWAN, R. O. C

Report No.: KA/2007/C2817R3

Date : 2008/02/12

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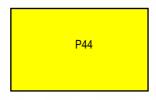




** End of Report **

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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

With reference to IEC 62321, ED.1 (111/54/CDV)-Section

11. Determination of Cadmium by ICP-AES.

With reference to IEC 62321, ED.1 (111/54/CDV)-Section

11. Determination of Lead by ICP-AES.

With reference to IEC 62321, ED.1 (111/54/CDV)-Section

10. Determination of Mercury by ICP-AES.

With reference to IEC 62321, Ed.1 111/54/CDV-Section 9.

Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

With reference to IEC 62321, ED.1 (111/54/CDV)-Section 7.

Determination of PBBs and PBDEs by GC/MS.

Test Result(s)

Conclusion

Please refer to next page(s).

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**

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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	Resuit	MDL	RoHS
rest item (s):	(Refer to)	No.1		Limit
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	(4)	n.d.	2	1000
extraction		-	_	
Sum of PBBs	_	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)	(5)	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.đ.	5	-
Decabromobiphenyl ether	1	n.d.	5	-
Sum of PBDEs (Mono to Deca)	1	n.d.	-	-

TEST PART DESCRIPTION:

NO.1 SILVER GRAY PASTE

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Test Report

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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

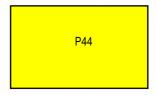
3. MDL = Method Detection Limit

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

5. " - " = Not Regulated

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No.: KA/2008/10254

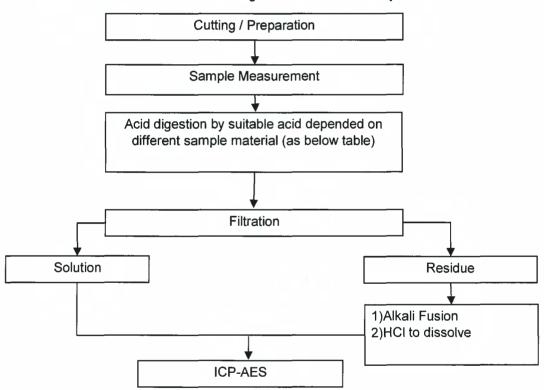
Date: 2008/01/10 Page: 4 of 5



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

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

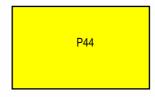
Method 1: Flow Chart of Digestion for Cd . Pb analysis



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂
Glass	HNO₃/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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SUMITOMO BAKELITE CO., LTD. 20-7 KIYOHARA-INDUSTRIAL PARK, UTSUNOMIYA-CITY, TOCHIGI-PREFECTURE, 321-3231 JAPAN.



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P45

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

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

: 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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Date : 2008/07/09

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Test Result(s)

PART NAME NO.1

: BLACK EPOXY MOLDING COMPOUND

Test Item (s)	Unit	Method	MDL	Result	
rest item (s)	5	Wethod	MDL	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.	
PERFLUOROOCTANE 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 (CI) (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

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

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Toot Itom (c)	Unit	Unit Method		Result
Test Item (s)	Offic			No. 1
Sum of PBBs			-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321/2nd CDV	5	n.d.
Pentabromobiphenyl	IIIg/Kg	(111/95/CDV). Determination of PBBs	5	n.d.
Hexabromobiphenyl		and PBDEs by GC/MS.	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)		With reference to IEC 62321/2nd CDV (111/95/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	mg/kg		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.

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

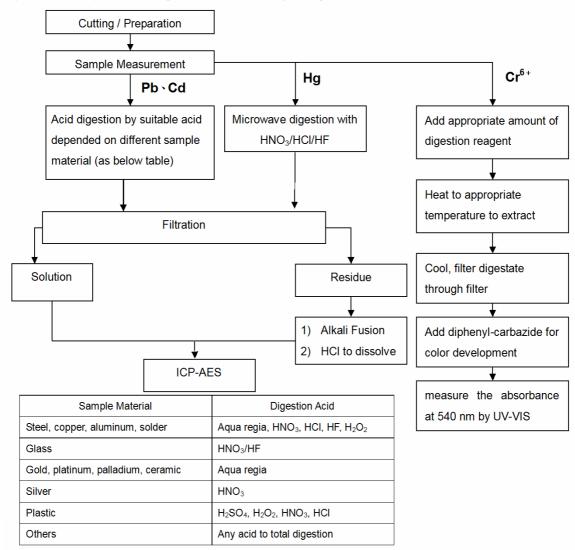
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NO.1, HUASI RD., DALIAO TOWNSHIP, KAOHSIUNG COUNTY 831, TAIWAN (R.O.C.) Report No.: KA/2008/62610A-02

Date : 2008/07/09 Page : 4 of 9

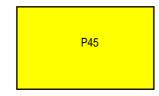
1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)

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



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Date

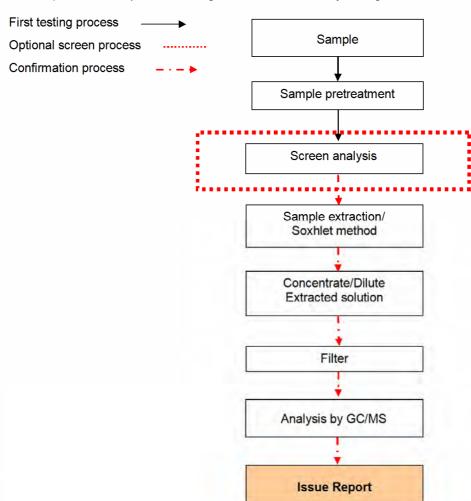
: 2008/07/09

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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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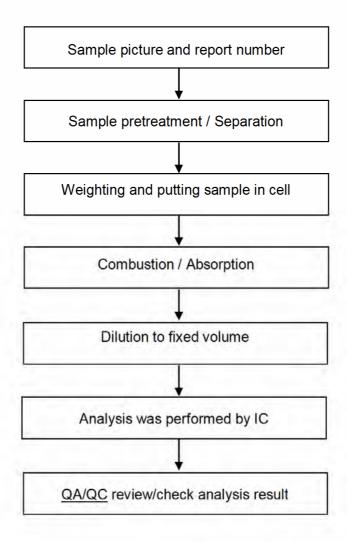
SUMITOMO BAKELITE \CO., LTD.

NO.1, HUASI RD., DALIAO TOWNSHIP, KAOHSIUNG COUNTY 831, TAIWAN (R.O.C.) Report No.: KA/2008/62610A-02

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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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Date

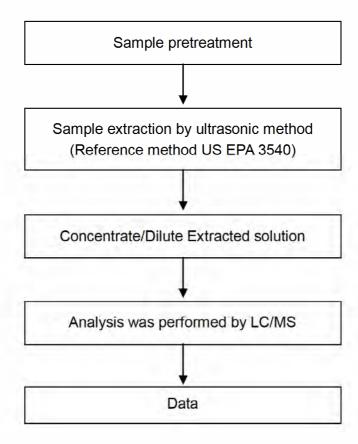
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Analytical flow chart of PFOS content

- 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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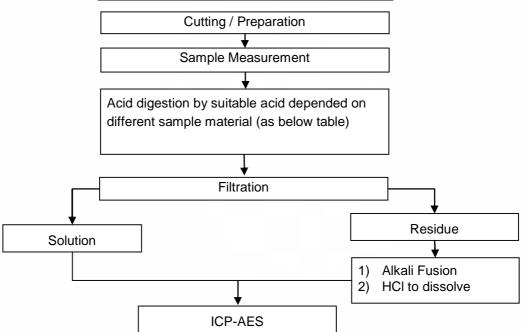
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1) These samples were dissolved totally by pre-conditioning method according to below flow chart.

Name of the person who made measurement: Hungming Li

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 , HCI
Others	Any acid to total digestion

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** End of Report **



Test Report

SUMITOMO METAL MINING CO.,LTD.

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

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

Sample Description

GOLD BONDING WIRE

Style/Item No.

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

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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		With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBBs and	-	n.d
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	IIIg/Kg		5	n.d.
Hexabromobiphenyl		PBDEs by GC/MS.	5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs			-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321/2nd CDV	5	n.d.
Pentabromodiphenyl ether	Ting/kg	(111/95/CDV). Determination of PBBs and	5	n.d.
Hexabromodiphenyl ether		PBDEs by GC/MS.	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 Item (s)	Unit	Method	MDL	Result
Beryllium (Be)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	No. 1 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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Test Item (s)	Unit	Method	MDL	Result	
. ,				No. 1	
PERFLUOROOCTANOIC ACID (PFOA)	0 0	With reference to US EPA 3540C : 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	
PERFLUOROOCTANE SULFONATES (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide		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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Test Item (s)	Unit	Method	MDL	Result
				No. 1
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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Result

Test Item (s)	Unit	Method	MDL	Result
rest item (s)	Offic	Metriod	MIDL	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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Test Item (s)	Unit	Method	MDL	Result No. 1	
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 (CHF2CHFCF3)	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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	1	T	1 – .		
Test Item (s)	Unit	Method	MDL	Result 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	
. ,	Oilit	metricu		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.	



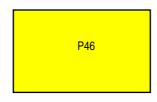
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Test Item (s)	Unit	Method	MDL	Result
Chlorofluorocarbon-112 (CAS NO.: 000076-12-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	No. 1 n.d.
Chlorofluorocarbon-211 (CAS NO.: 135401-87-5)	mg/kg	With reference to US EPA 5021. 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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Test Item (s)	Unit	Method	MDL	Result	
Hydrochlorofluorocarbon-31 (CAS NO.: 000593-70-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	No. 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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Test Item (s)	Unit	Method	MDL	Result		
` '	Oilit		IIIDE	No. 1		
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 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	
. ,			IVIDE	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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Tost Itom (s)	Unit	Method	MDL	Result	
Test Item (s)	Onit	Wethod		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 (CI) (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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Test Report

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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 Seryllium Silicon Zinc Cobalt or Phosphorus respectively.)
- 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 μSv/ 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 1µg/m2 of the coated material.

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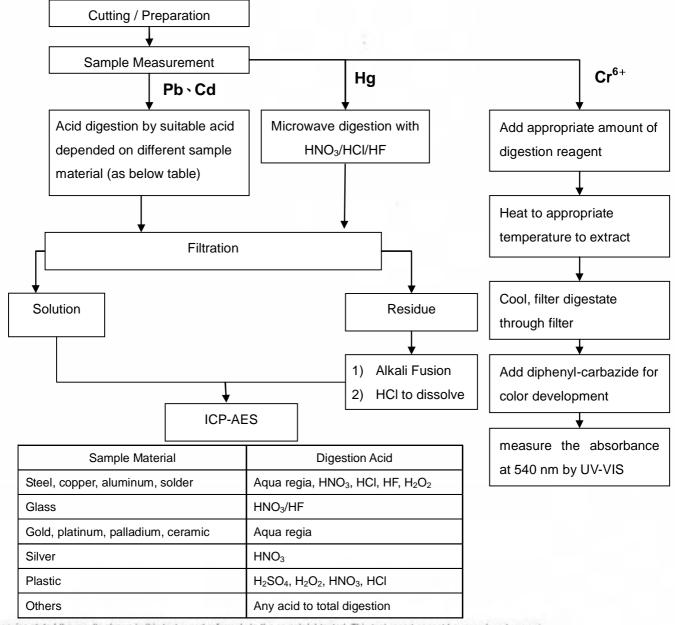
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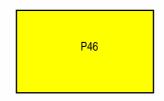
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- Name of the person in charge of measurement: Ray Chang



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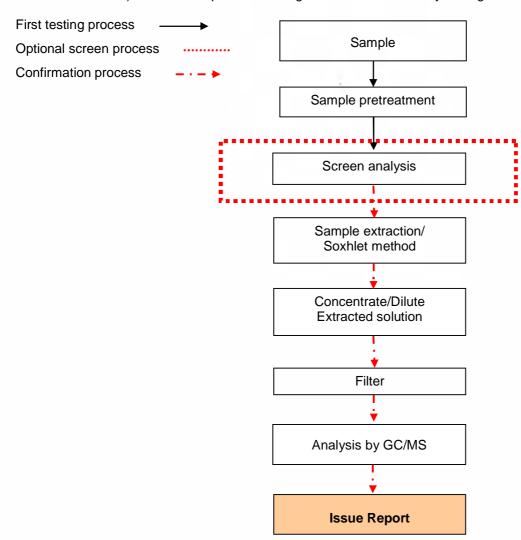
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PBB/PBDE analytical FLOW CHART

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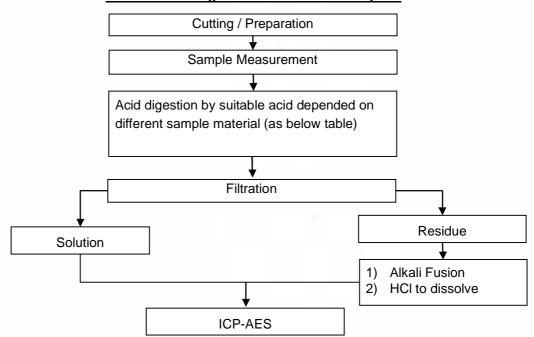
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- Name of the person who made measurement: Hungming Li
- Name of the person in charge of measurement: Ray Chang

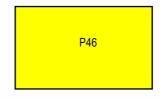
Flow Chart of Digestion for elements analysis



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 , HCI
Others	Any acid to total digestion

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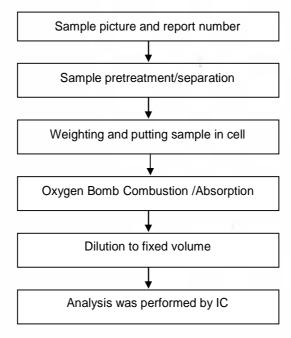
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Analytical flow chart of halogen content

- 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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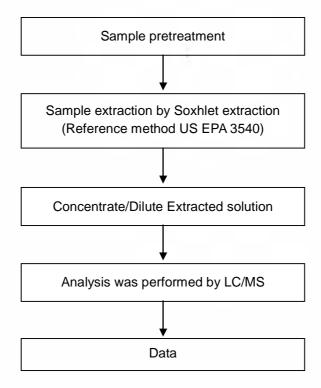
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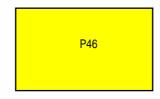
Analytical flow chart of PFOA/PFOS content

- 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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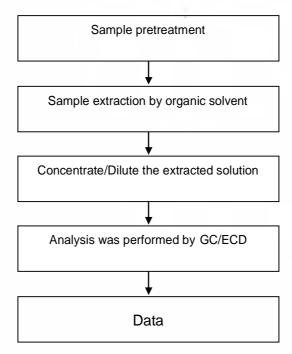
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Chlorinated Flame retardant analytical flow chart

Name of the person who made measurement: Anson Tsao

Name of the person in charge of measurement: Ray Chang

Reference method: USEPA 3540 Test Items: PCBs, CP, MCCP



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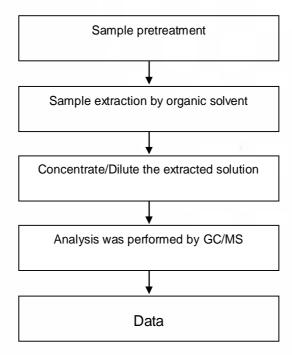
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Chlorinated Flame retardant analytical flow chart

- Name of the person who made measurement: Anson Tsao
- 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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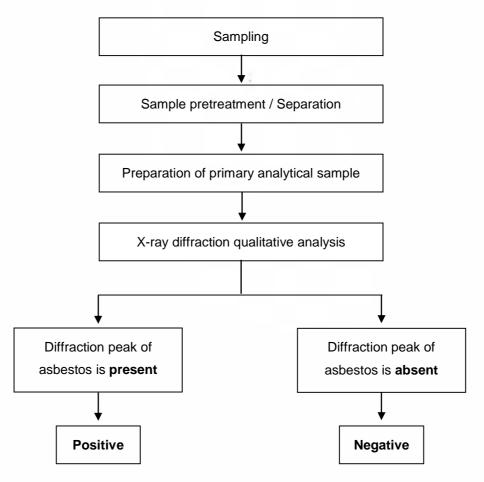
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Analysis flow chart for determination of Asbestos

- 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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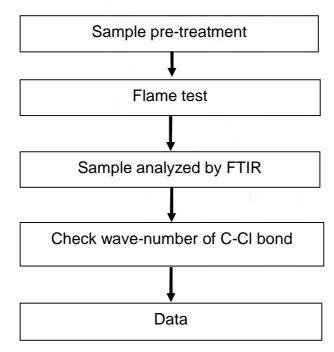
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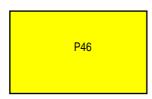
Analysis flow chart for determination of **PVC** in polymer material

- 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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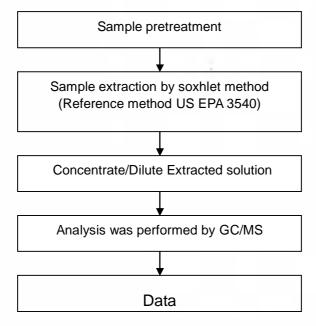
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Analytical flow chart of benzotriazole content

- 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 **