



Test Report No. F690501/LF-CTSGPJ05-0105

Date: November 02, 2005

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To: **AUK CORP**
802-12
Shinheung-dong
Iksan-city
JEONBUK
Korea

The following merchandise was submitted and identified by the client as :

Commodity : Silicon Chip
SGS File No. : GPJ05-0105
Received Date : October 26, 2005
Test Performing Date : October 27, 2005
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)
Comments : Buyer is SONY

SGS Testing Korea Co. Ltd.

Jason Han / Lab Director

Jeff Jang / Technical Mgr

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Date: November 02, 2005

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Sample No. : GPJ05-0105.001
Sample Description : Silicon Chip
Style/Item No. : N/A
Comments : Material is Silicon

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	USEPA 3050B, ICP-AES	0.5	N.D.
Lead (Pb)	mg/kg	USEPA 3050B, ICP-AES	5	N.D.
Mercury (Hg)	mg/kg	USEPA 3052, ICP-AES	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	USEPA 3060A, UV-vis	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Monobromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N.D.

*** End ***

NOTE: N.D. = Not detected.(<MDL)
ppm = mg/kg
MDL = Method Detection Limit
"- " = No Regulation
** = Qualitative analysis (No Unit)
Negative = Undetectable / Positive = Detectable



Test Report No. F690501/LF-CTS059026

Date : November 10, 2005

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To: **POONGSAN MICROTEC CORP.**
52, Banyeo 1-dong,
Haeundae-gu,
Busan,
Korea

The following merchandise was submitted and identified by the client as : -

Commodity : Lead Frame (Ni + Fe Alloy - A42)
SGS File No. : P-48/2005-1042/2
Country of Origin : Korea
Received Date : November. 01, 2005
Test Performing Date : November. 02, 2005
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following result.
Test Results : For further details, please refer to following page.
Comments : Buyers are LG, SAMSUNG, SANYO and SONY

SGS Testing Korea Co., Ltd.

Thomas Hwang / Lab. Manager

SBP/mss



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Date : November 10, 2005

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Heavy Metal

Test Item(s)	Unit	Test Method	MDL	Result(s)
Cadmium (Cd)	mg/kg	USEPA 3052, ICP-AES	1	N. D.
Lead (Pb)	mg/kg	USEPA 3052, ICP-AES	10	N. D.
Mercury (Hg)	mg/kg	USEPA 3052, ICP-AES	2	N. D.
Hexavalent Chromium (Cr VI)	mg/kg	USEPA 3060A, UV-vis	1	N. D.

Flame Retardants

Test Item(s)	Unit	Test Method	MDL	Result(s)
Monobromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Dibromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Tribromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Tetrabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Heptabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Hexabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Pentabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Octabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Nonabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Decabromobiphenyl	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Monobromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Dibromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Tribromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Tetrabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Heptabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Hexabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Pentabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Octabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Nonabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.
Decabromobiphenyl ether	mg/kg	USEPA 3540C, GC/MS	5	N. D.

Note: (1) N.D. = Not detected. (<MDL)
(2) MDL = Method Detection Limit

*** End of Report ***

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Test Report No. F690501/LF-CTSGP06-00592

Date: January 16, 2006

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To: **MK ELECTRONICS**
316-2,Kumeri
Pogpk-myun
Yongin-city
KYUNGGI-DO
Korea

The following merchandise was submitted and identified by the client as :

Commodity : GOLD WIRE (4N)
SGS File No. : GP06-00592
Received Date : January 09, 2006
Test Performing Date : January 10, 2006
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

Brendan Lee
Monet Jeong
Jully Oh
Jerry Jung
/Testing Person

Jeff Jang / Technical Mgr

SGS Testing Korea Co. Ltd.

Jason Han / Lab Director

**Test Report No. F690501/LF-CTSGP06-00592**

Date: January 16, 2006

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Sample No. : GP06-00592.001
Sample Description : GOLD WIRE (4N)
Style/Item No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	0.5	N.D.
Lead (Pb)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	5	N.D.
Mercury (Hg)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996)	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	US EPA 3060A(1996), US EPA 7196A(1992)	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Monobromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.

NOTE: N.D. = Not detected.(<MDL)
ppm = mg/kg
MDL = Method Detection Limit
"- " = No Regulation
** = Qualitative analysis (No Unit)
Negative = Undetectable / Positive = Detectable

Picture of Sample as Received:

*** End ***

NOTE: N.D. = Not detected.(<MDL)
ppm = mg/kg
MDL = Method Detection Limit
"-." = No Regulation
** = Qualitative analysis (No Unit)
Negative = Undetectable / Positive = Detectable



Test Report No. F690501/LF-CTSGPJ06-0121

Date: January 23, 2006

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To: **KCC CO., LTD**
846, Yongam-ri
Bongdong-eub
Wanju-gun
Jeonbuk
Korea

The following merchandise was submitted and identified by the client as :

Commodity : KTMC-1060+
SGS File No. : GPJ06-0121
Received Date : January 16, 2006
Test Performing Date : January 17, 2006
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

SGS Testing Korea Co. Ltd.

Jason Han / Lab Director

Jeff Jang / Technical Mgr

**Test Report No. F690501/LF-CTSGPJ06-0121**

Date: January 23, 2006

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Sample No. : GPJ06-0121.001

Sample Description : KTMC-1060+

Style/Item No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	0.5	N.D.
Lead (Pb)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	5	12.3
Mercury (Hg)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996)	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	US EPA 3060A(1996), US EPA 7196A(1992)	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Monobromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.

- NOTE: (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) - = No regulation
(5) ** = Qualitative analysis (No Unit)
(6) Negative = Undetectable / Positive = Detectable

Picture of Sample as Received:

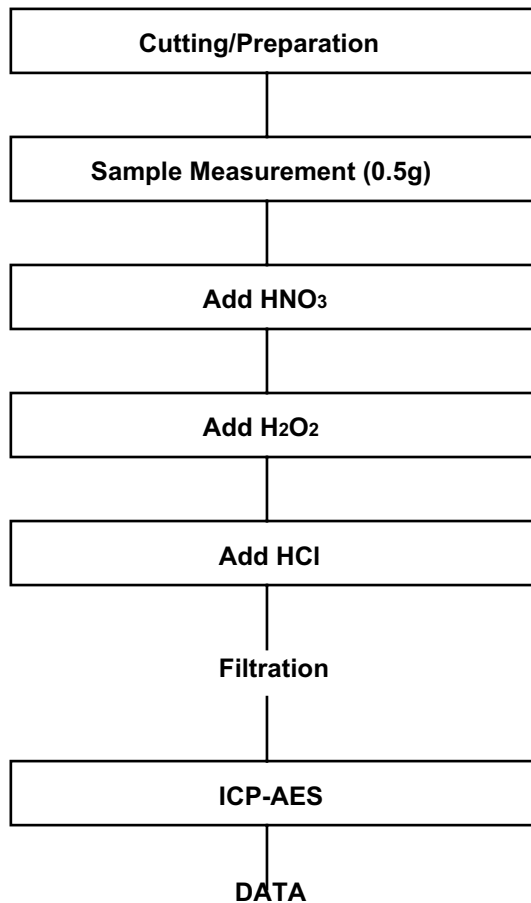


- NOTE:
- (1) N.D. = Not detected.(<MDL)
 - (2) ppm = mg/kg
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable



Flow Chart of Digestion

(EPA 3050B for Cd, Pb)



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

Operator Lauren Kim

Section Chief Jeff Jang

*** End ***

- NOTE:
- (1) N.D. = Not detected.(<MDL)
 - (2) ppm = mg/kg
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable



Test Report No. F690501/LF-CTSGPJ06-0149

Date: January 24, 2006

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To: **CALIX ELECTRONIC CHEMICAL CO., LTD.**
838-2
Palbong-dong
Iksan
JEONBUK
Korea

The following merchandise was submitted and identified by the client as :

Commodity : CALIX-2000 Make-Up Chemical
SGS File No. : GPJ06-0149
Received Date : January 17, 2006
Test Performing Date : January 18, 2006
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)
Buyer(s) : SAMSUNG

Brendan Lee
Patrick An
Monet Jeong
Jinee Song
/Testing Person

Jeff Jang / Technical Mgr

SGS Testing Korea Co. Ltd.

Jason Han / Lab Director

The above certificate is the accredited test items by Korea Laboratory Accreditation Schmee (KOLAS), which signed the ILAC-MRA.

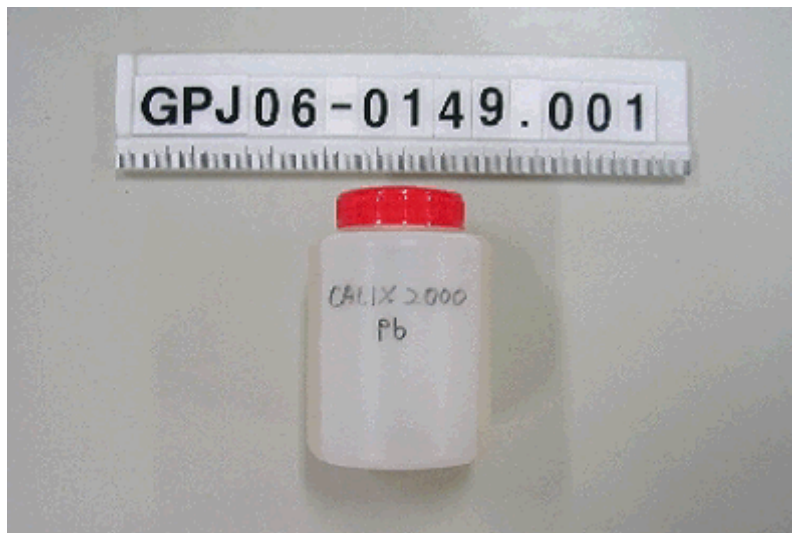
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Sample No. : GPJ06-0149.001
Sample Description : CALIX-2000 Make-Up Chemical
Style/Item No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	0.5	N.D.
Lead (Pb)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	5	N.D.
Mercury (Hg)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996)	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	US EPA 3060A(1996), US EPA 7196A(1992)	1	N.D.

Picture of Sample as Received:



*** End ***

- NOTE:
- (1) N.D. = Not detected.(<MDL)
 - (2) ppm = mg/kg
 - (3) MDL = Method Detection Limit
 - (4) Estimated expanded uncertainty U with a coverage factor $k=2$, corresponding to a level of confidence of about 95%

The above certificate is the accredited test items by Korea Laboratory Accreditation Schmee (KOLAS), which signed the ILAC-MRA.

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