

No.: CE/2007/C2857 Date: 2007/12/17 Page: 1 of 7

EPSON TAIWAN TECHNOLOGY & TRADING LTD. 14F., NO.7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C. The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description **CRYSTAL OSCILLATOR** 

SG-30XXJXLX (SG-3030JF, SG-3030JC, SG-3030LC, Style/Item No.

SG-3032JC, SG-3040JC, SG-3040LC)

Sample Receiving Date 2007/12/12

**Testing Period** 2007/12/12 TO 2007/12/17

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

Chenyu Kung / Operation Manager Signed for and on behalf of

Chemical Laboratory - Taipei

SGS TAIWAN LTD.



No.: CE/2007/C2857 Date: 2007/12/17 Page: 2 of 7

EPSON TAIWAN TECHNOLOGY & TRADING LTD. 14F., NO.7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.

#### 

#### Test Result(s)

PART NAME NO.1 MIXED ALL PARTS

Test Item (s):	Unit	Method	MDL	Result
	Unit			No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321,	2	n.d.
		Ed.1 111/54/CDV. Determination		
		of Cadmium by ICP-AES.		
Lead (Pb)	mg/kg	With reference to IEC 62321,	2	1110
		Ed.1 111/54/CDV. Determination		
		of Lead by ICP-AES.		
Mercury (Hg)	mg/kg	With reference to IEC 62321,	2	n.d.
		Ed.1 111/54/CDV. Determination		
		of Mercury by ICP-AES.		
Hexavalent Chromium Cr(VI) by	mg/kg	With reference to IEC 62321,	2	n.d.
alkaline extraction		Ed.1 111/54/CDV. Determination		
		of Hexavalent Chromium for		
		non-metallic samples by UV/Vis		
		Spectrometry.		
Arsenic (As)	mg/kg	With reference to US EPA	2	n.d.
		Method 3052 for Arsenic		
		Content. Analysis was		
		performed by ICP-AES.		
Antimony (Sb)	mg/kg	With reference to US EPA	2	10200
		Method 3050B for Antimony		
		Content. Analysis was		
		performed by ICP-AES.		
Bismuth (Bi)	mg/kg	With reference to US EPA	2	2440
		Method 3050B for Bismuth		
		Content. Analysis was		
		performed by ICP-AES.		
Nickel (Ni)	mg/kg	With reference to US EPA	2	83400
		Method 3050B for Nickel		
		Content. Analysis was		
		performed by ICP-AES.		
Halogen		With reference to BS EN 14582.		
		Analysis was performed by IC		
		method for F , CI , Br, I 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-Chlorine (CI)	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.		



No.: CE/2007/C2857 Date: 2007/12/17 Page: 3 of 7

EPSON TAIWAN TECHNOLOGY & TRADING LTD. 14F., NO.7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.



Test Item (s):	Unit	Method	MDL	Result
				No.1
Halogen-Bromine (Br)	mg/kg	With reference to BS EN 14582.	50	4670
(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.		
Sum of PBBs	ļ	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs (Mono to Nona) (Note 4)			-	n.d.
Monobromobiphenyl ether			5	n.d.
Dibromobiphenyl ether			5	n.d.
Tribromobiphenyl ether			5	n.d.
Tetrabromobiphenyl ether			5	n.d.
Pentabromobiphenyl ether			5	n.d.
Hexabromobiphenyl ether			5	n.d.
Heptabromobiphenyl ether			5	n.d.
Octabromobiphenyl ether			5	n.d.
Nonabromobiphenyl ether			5	n.d.
Decabromobiphenyl ether			5	n.d.
Sum of PBDEs (Mono to Deca)			-	n.d.

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 Conducted
- 6. " " = Not Regulated
- 7. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.



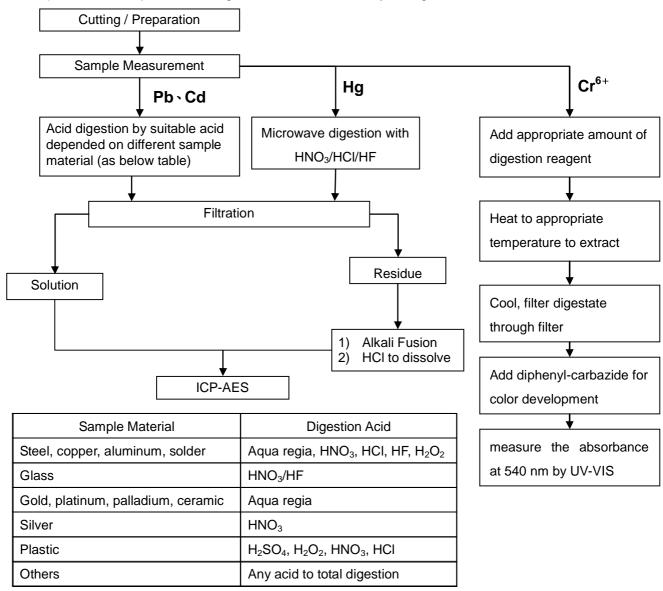
No.: CE/2007/C2857 Date: 2007/12/17 Page: 4 of 7

EPSON TAIWAN TECHNOLOGY & TRADING LTD. 14F., NO.7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.



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

  ( Cr<sup>6+</sup> test method excluded )
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



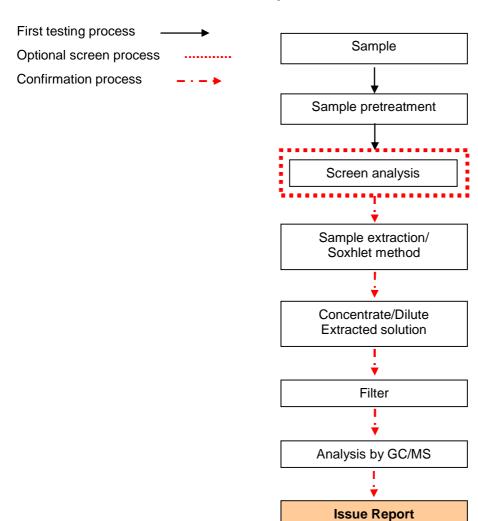


No.: CE/2007/C2857 Date: 2007/12/17 Page: 5 of 7

EPSON TAIWAN TECHNOLOGY & TRADING LTD. 14F., NO.7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.



#### PBB/PBDE analytical FLOW CHART



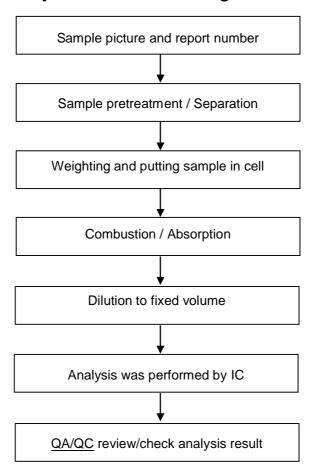


No.: CE/2007/C2857 Date: 2007/12/17 Page: 6 of 7

EPSON TAIWAN TECHNOLOGY & TRADING LTD. 14F., NO.7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.



#### Analytical flow chart of halogen content





No.: CE/2007/C2857 Date: 2007/12/17 Page: 7 of 7

EPSON TAIWAN TECHNOLOGY & TRADING LTD. 14F., NO.7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.





\*\* End of Report \*\*