

No.: CANEC1211675202

JIASHAN JINCHANG ELECTRON CO., LTD. JIASHAN HIGHWAY # 1897,JIASHAN ZHEJIANG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Antenna(Plastic shell, Dielectric Antenna, Low Noise amplifier, Shield Cover, Magnetic, Cable, SMA Connector, Casing, Screw, Lable, Plastic bag, White box)

SGS Job No. :	CP12-041683 - GZ
Date of Sample Received :	27 Aug 2012
Testing Period :	27 Aug 2012 - 07 Sep 2012
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 :	B:When tested as specified, the sum of total Lead, Cadmium, Mercury and
	Hexavalent Chromium content in the submitted packaging sample(s) comply with
	the limit stated in European Council Directive 94/62/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Jenny Jiang Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN12-116752.001	Black plastic(1#)
2	CAN12-116752.002	"Dielectric Antenna"(2#)
3	CAN12-116752.004	Silvery metal(4#)
4	CAN12-116752.005	Silvery metal(5#)
5	CAN12-116752.006	Silvery metal(6#)
6	CAN12-116752.007	Black material w/ white printing(7#)
7	CAN12-116752.008	Translucent material(8#)
8	CAN12-116752.009	Silver-grey wire(9#)
9	CAN12-116752.010	Gloden plated metal(10#)
10	CAN12-116752.012	Silvery metal(12#)
11	CAN12-116752.013	Silver-grey metal(13#)
12	CAN12-116752.014	Red sheet w/ white printing(14#)
13	CAN12-116752.015	Grey adhesive sheet(15#)
14	CAN12-116752.016	Transparent plastic(16#)
15	CAN12-116752.017	Grey paper box w/ white surface(17#)
16	CAN12-116752.018	MIXED ALL PARTS

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Remarks :

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

A:Elementary Analysis & Flame Retardants

Test Method : With reference to IEC 62321:2008

(1) Determination of Cadmium by ICP-OES.

(2) Determination of Lead by ICP-OES.

(3) Determination of Mercury by ICP-OES.

(4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Unit	MDL	001	002	<u>007</u>
Cadmium (Cd)	mg/kg	2	ND	ND	ND
Lead (Pb)	mg/kg	2	ND	ND	ND
Mercury (Hg)	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND	ND	ND
Sum of PBBs	mg/kg	-	ND	ND	ND
Monobromobiphenyl	mg/kg	5	ND	ND	ND
Dibromobiphenyl	mg/kg	5	ND	ND	ND
Tribromobiphenyl	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	mg/kg	5	ND	ND	ND
Octabromobiphenyl	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	mg/kg	5	ND	ND	ND
Decabromobiphenyl	mg/kg	5	ND	ND	ND
Sum of PBDEs	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	mg/kg	5	ND	ND	ND

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Test Item(s)	Unit	MDL	008	014	<u>015</u>
Cadmium (Cd)	mg/kg	2	ND	ND	ND
Lead (Pb)	mg/kg	2	ND	5	ND
Mercury (Hg)	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND	ND	ND
Sum of PBBs	mg/kg	-	ND	ND	ND
Monobromobiphenyl	mg/kg	5	ND	ND	ND
Dibromobiphenyl	mg/kg	5	ND	ND	ND
Tribromobiphenyl	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	mg/kg	5	ND	ND	ND
Octabromobiphenyl	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	mg/kg	5	ND	ND	ND
Decabromobiphenyl	mg/kg	5	ND	ND	ND
Sum of PBDEs	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	mg/kg	5	ND	ND	ND

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A:Elementary Analysis

- Test Method : With reference to IEC 62321:2008
 - (1) Determination of Cadmium by ICP-OES.
 - (2) Determination of Lead by ICP-OES.
 - (3) Determination of Mercury by ICP-OES.
 - (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

<u>Test Item(s)</u> Cadmium (Cd) Lead (Pb) Mercury (Hg)	<u>Unit</u> mg/kg mg/kg mg/kg	<u>MDL</u> 2 2 2	<u>004</u> ND ND ND	<u>005</u> ND ND ND	<u>006</u> ND ND ND
Hexavalent Chromium (CrVI)	-	\diamond	Negative	Negative	Negative
Test Item(s)	Unit	MDL	009	<u>010</u>	<u>012</u>
Cadmium (Cd)	mg/kg	2	ND	62	ND
Lead (Pb)	mg/kg	2	ND	27100	24
Mercury (Hg)	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	-	\diamond	Negative	Negative	Negative
Test Item(s)	Unit	MDL	<u>013</u>		
Cadmium (Cd)	mg/kg	2	26		
Lead (Pb)	mg/kg	2	34720		
Mercury (Hg)	mg/kg	2	ND		
Hexavalent Chromium (CrVI)	-	\diamond	Negative		

Notes :

(1) 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.)

Output 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.

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.





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B:European Directive 94/62/EC - Total Lead, Cadmium, Mercury and Hexavalent Chromium Content

Test Method : With reference to GZTC CHEM-TOP-174-01. Analysis of Cadmium, Lead and Mercury was performed by ICP-OES. Analysis of Hexavalent Chromium (Cr(VI)) was performed by UV-Vis

Test Item(s)	Limit	Unit	MDL	<u>016</u>	<u>017</u>
Cadmium (Cd)	-	mg/kg	5	ND	ND
Lead (Pb)	-	mg/kg	5	ND	ND
Hexavalent Chromium (CrVI)	-	mg/kg	5	ND	ND
Mercury (Hg)	-	mg/kg	5	ND	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND	ND

C:

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Test Requested: As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.

Test Item(s)	llmit	Mathad	MDI	Result
Test tiem(s)	Unit	Metriod	WDL	018
Cadmium (Cd)	mg/kg		2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and	2	20
Mercury (Hg)	mg/kg	performed by for -ALS.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs	mg/kg		-	n.d.
Monobromobiphenyl	mg/kg		5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and	5	n.d.
Octabromobiphenyl	mg/kg	penormed by GO/M3.	5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg		5	n.d.
Sum of PBDEs	mg/kg		-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.

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Tetrabromodiphenyl ether	mg/kg
Pentabromodiphenyl ether	mg/kg
Hexabromodiphenyl ether	mg/kg
Heptabromodiphenyl ether	mg/kg
Octabromodiphenyl ether	mg/kg
Nonabromodiphenyl ether	mg/kg
Decabromodiphenyl ether	mg/kg

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- " " = Not Regulated 4.

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The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) 5. was/were only given as the informality value.

Remark: Results of C shown were conducted by SGS TW LTD.



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DATA

Chemical Laboratory.

Test Report No.: CANEC1211675202 Date: 07 Sep 2012 Page 9 of 20 ATTACHMENTS Pb/Cd/Hg/Cr6+ Testing Flow Chart Name of the person who made testing: Bella Wang 2) Name of the person in charge of testing: Adams Yu Sample Preparation Sample Measurement Cre Pb/Cd/Hg Acid digestion Adding digestion reagent Heating to 90~95°C for Filtration extraction Solution Filtration and pH adjustment ICP-OES/AAS Adding 1,5- diphenylcarbazide for color development

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UV-Vis

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- 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: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note** : (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
 (2) For metallic material, add pure water and heat to boiling.





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PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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Sample photo:

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