



Test Report No.: TAOEC24000242907 **Date:** Feb 03, 2024 Page 1 of 13

Client Name: RIZHAO XURI ELECTRONICS CO.,LTD.

Client Address: DALIAN ROAD 388 OF RIZHAO DEVELOPMENT ZONE, SHANDONG

Sample Name: TO CAP

Client Ref. Information: SEE ATTACHMENT

The above sample(s) and information were provided by the client.

SGS Job No.: QDP24-000189 Sample Receiving Date: Jan 15, 2024

Testing Period: Jan 15, 2024 ~ Jan 22, 2024

Test Requested: Select test(s) as requested by the client.

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium	Pass
Halogen	See Results

Signed for and on behalf of SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.



Approved Signatory



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Test Result(s):

Test Part Description:

	TOOL OIL DOOM TOOL						
S	SN ID	Sample No.	SGS Sample ID	Description			
,	SN1	A23	TAO24-0002429-0001.C023	silvery gray metal			
,	SN2	A24	TAO24-0002429-0001.C024	silvery gray metal			
	SN3	A25	TAO24-0002429-0001.C025	Transparent solid			
,	SN4	A26	TAO24-0002429-0001.C026	Light yellow solid			

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, Test Method:

IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-

Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A25	A26
Lead (Pb)	1000	mg/kg	2	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A25	A26
Heptabrominated diphenyl ether (HeptaBDE)	ı	mg/kg	5	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, **Cadmium and Hexavalent chromium**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017. IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES/AAS and UV-Vis.

Test Item(s)	Limit	Unit(s)	MDL	A23	A24
Lead (Pb)	1000	mg/kg	2	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

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

<u>Halogen</u>

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A25	A26
Fluorine(F)	mg/kg	20	ND	ND



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Test Item(s)	Unit(s)	MDL	A25	A26
Chlorine(CI)	mg/kg	50	ND	ND
Bromine(Br)	mg/kg	50	ND	ND
lodine(I)	mg/kg	50	ND	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.







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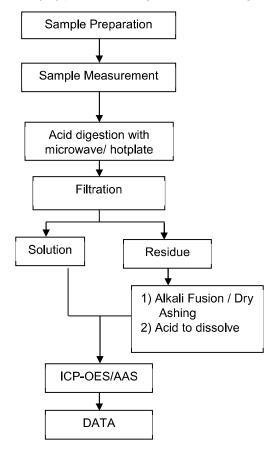


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ATTACHMENTS

Elements Testing Flow Chart

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





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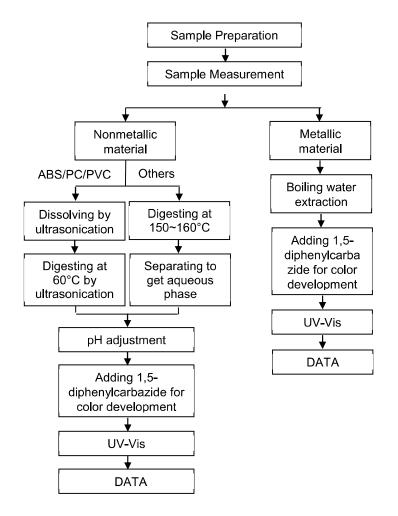


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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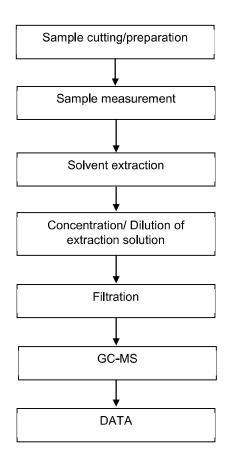


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PBB/PBDE Testing Flow Chart







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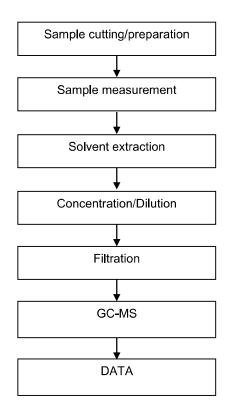


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Phthalates Testing Flow Chart





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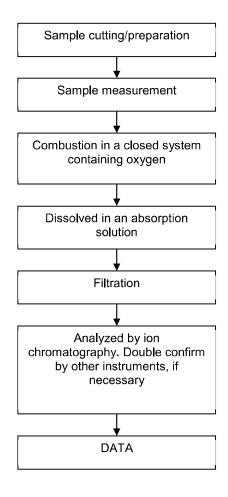


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Halogen Testing Flow Chart





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Attachment:

Attachment:	
A-5-R	QGCM CASE
A-6-R	20.12*12.5*8.4CASE
SR-6A-R	20 * 20-8.4H cap shell
RB-8-R	20×20-9.2H cap shell
3*4 01 cap	TO8-
3*4 02 cap	TO5-
TP-A8-R	TO56 flat window cap
TP-A12-R	TO46 flat window cap
TP-A13-R	TO39 flat window cap
TP-A14-R	TO24 flat window cap
TP-A15-R	TO46 (TO52) cap
TP-A16-R	TO52 2.57 Cap
TP-A17-R	TO18 4.83H ball window (gold plated)
TP-A15-R without window	TO18 Φ 5.5 ball window
TP-A16-R without window	TO39 cap
A-5-R without window	TO52 2.55 cap
RB-8-R without window	TO52 4J50 cap
TO-18-B-CD	TO52 2.64 cap
TO-18-CAN (Φ 2.5)	TO18 ball window iron cap
TO-39-Φ5.2	TO52 4J50 Coated Cap
TO-39-6.0-CD cap	TO18 Ball Window Iron Cap (Gold Plated)
SLIT-TO-8 Ф5.5*0.3-R	TO52 2.64 Coated Cap
SLIT (2*0.2) -R	TO46 3.45H Ball Window
SLIT2- (Ф2.2*0.2) -R	TO52 3.50 Coated Cap
PAP012201 cap	TO52 3.50 Cap
DIL-DUAL-2B-R	TO46 3.45H Flat Window
RBL-MHRAC-2-P1-R	TO46 2.55 Flat Window
RBL-MHRAC-3-P2-R	TO39 Gold Plated
SLG-323-R	TO18 6.08H
NK-R	TO52 2.57 Coated Cap
27*12 cap	TO18 4.3H Cap
25*25-11.2 CASE	TO18 4.83H Ball Window Cap
36*27*11.5 CASE	TO18 5.3H Flat Window
20*20-9.0 CASE	
	•



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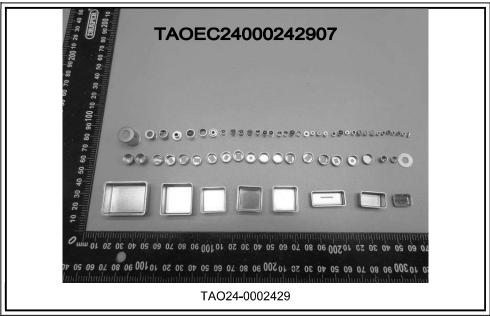


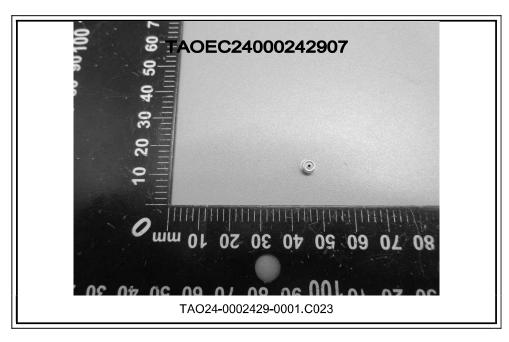




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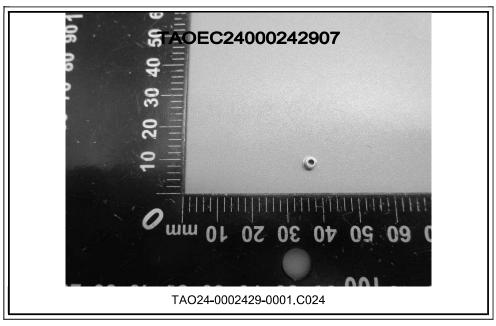
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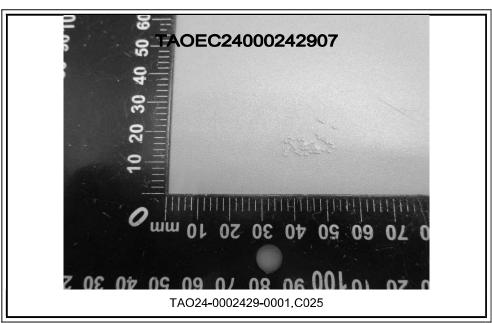
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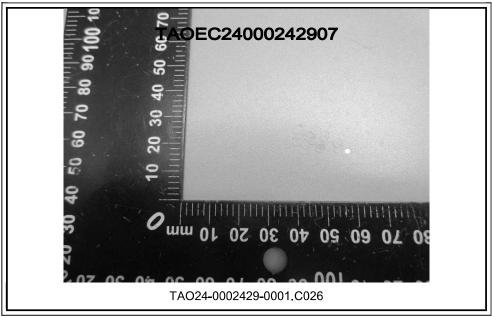
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