

st Report	No.:	SZXEC23003005701	Date:	Dec 11, 202	3 Page 1 of 9
Client Name:	SHENZHEN C	RYSTAL TECHNOLOGY	/ INDUSTRIAL	CO.,LTD	
Client Address:	12/F, BUILDIN SHENZHEN, C	G 3C, TIANAN CLOUD F CHINA	PARK PHASE 1	,BANTIAN, L	ONGGANG DISTRICT,
Sample Name:	S	MD CRYSTAL RESONA	TOR		
Model No.:	S	MD SEAM 3225			
Client Ref. Infor	1 2 F	MD7050、6035、5032、 610、3215、2012、SMI 016、1612、TCXO,VC Resonator、Saw Filte、C mation were provided by	DOSC7050、50 C-TCXO 、VCX0 Crystal Filter、	32、3225、	2520
SGS Job No.:	S	ZP23-030282			
Sample Receivi	ing Date: D	ec 01, 2023			
Testing Period:	D	ec 01, 2023 ~ Dec 08, 20)23		
Test Requested	l: S	elect test(s) as requested	by the client.		
Test Method(s)	: P	lease refer to next page(s	s).		
Test Result(s):	Р	lease refer to next page(s	s).		
Test Require					Conclusion
2011/65/EU- L biphenyls (PB	ead, Mercury, (Bs), Polybromin HP), Butyl benzy	/863 amending Annex II Cadmium, Hexavalent chi ated diphenyl ethers (PB yl phthalate (BBP), Dibuty	romium, Polybro DEs), Bis(2-eth	ylhexyl)	Pass

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

egcal

Halogen

Mescal Ye Approved Signatory



See Results



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Test Report

No.: SZXEC23003005701

Date: Dec 11, 2023

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX23-0030057-0001.C001	"SMD CRYSTAL RESONATOR"

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND



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1 Room 101-901. Plant 4.8 Room 101. Plant 3.8 Room 301-501. Plant 3. Jianohao (Bantian Industrial Plant Area, No. 430. Jilua Road, Bantian Community, Bantian Street, Lonosano District, Sherzhen, Guanodono, China 518129 www.sgsgroup.com.cn 中国・广东・深圳市龙岗区坂田街道坂田社区吉华路430号江灏(坂田)工业厂区厂房4号101-901、2号101、3号101、3号301-501 邮编:518129 t (86-755) 25328888 sgs.china@sgs.com



es	t Report No.:	SZXEC230	03005701	Date: De	ec 11, 2023	Page 3 of 9	9
	Test Item(s)		Limit	Unit(s)	MDL	A1	
	Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND	
	Diisobutyl Phthalate(DIBP)		1000	mg/kg	50	ND	

Notes:

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(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.

Halogen

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

Test Item(s)	Unit(s)	MDL	A1
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
lodine(I)	mg/kg	50	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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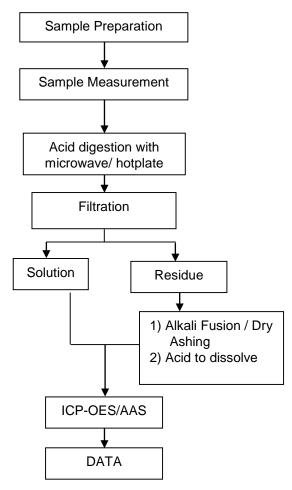
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Elements Testing Flow Chart

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





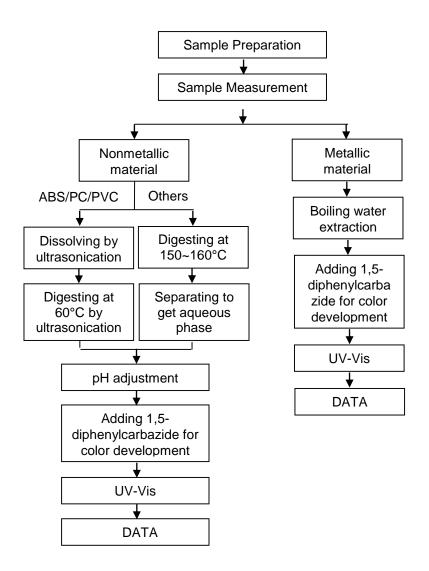
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SZXEC23003005701 No.:

Hexavalent Chromium (Cr(VI)) Testing Flow Chart





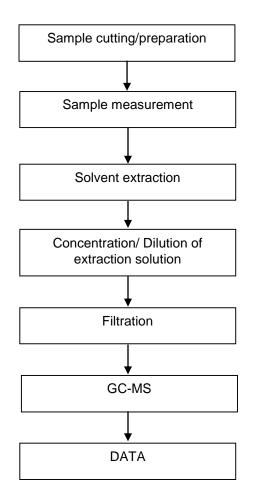
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PBBs/PBDEs Testing Flow Chart





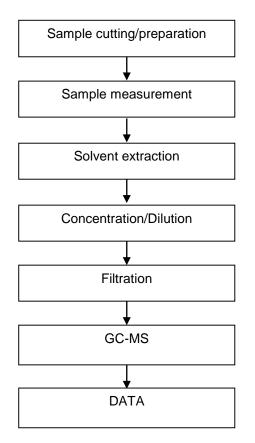
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Phthalates Testing Flow Chart





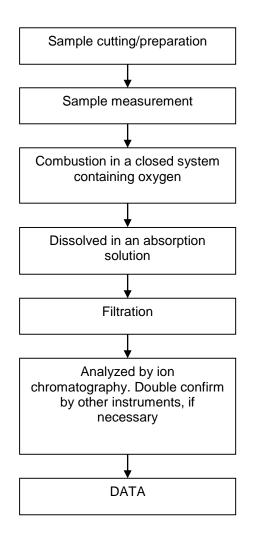
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Halogen Testing Flow Chart

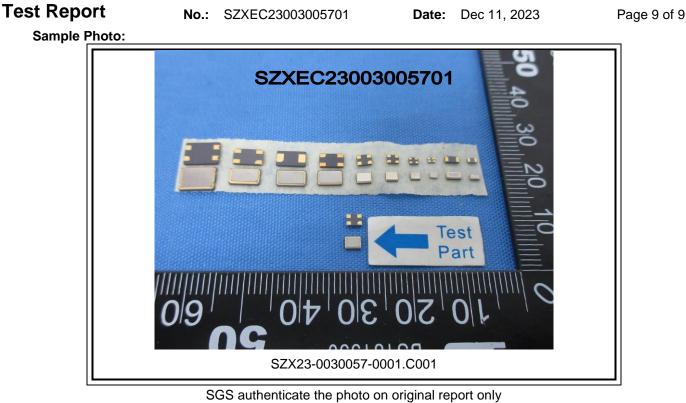




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