



No. 4754657-04

Date: 17/JAN/2019

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Jauch Quartz GmbH Mr. Stefan Durczok In der Lache 24 78056 Villingen-Schwenningen GERMANY



#### The following samples were submitted and identified by/on behalf of the client as

SGS Job file	:	4754657
Order date	:	15/NOV/2018
Order number	:	-
Sampling	:	by Client or by a third party acting at the Client's direction
condition of the samples	:	appropriate for testing
Sample receiving Date	:	19/NOV/2018
Testing period	:	19/NOV/2018 – 17/JAN/2019
Analytical scope	:	According to client's requirements

Sample No	Sample designation	Sample material
181154552	SM26F	electronic component
Test requested	: In accordance with the RoHS Dire amendments	ective 2011/65/EU and subsequent
Test Method(s)	<ul> <li>(2) Determination of Lead by ICP-</li> <li>(3) Determination of Mercury by C</li> <li>(4) Determination of Chromium by</li> <li>(5) Determination of Chromium (NA) (metal samples) Determination after excarbazide based on IEC 62321-7-1:2015 (B) (non-metallic samples) Determination a carbazide based on IEC 62321, Ed1, 2008 chromatography</li> <li><u>Remark:</u> Due to its highly reactive nature is changes drastically with time and storage 1:2015 can therefore only give an indication limitations of the method at the time of tess</li> <li>(6) Determination of PBB/PBDE b</li> </ul>	CV-AAS, acc. IEC 62321-4:2013 y ICP-OES, acc. IEC 62321-5:2013 /I) acc. IEC 62321: traction with hot water and derivatisation with 1,5-diphenyl- (metal samples), ion chromatography after alkaline extraction and derivatisation with 1,5-diphenyl- 8, C5 (polymer and electronic samples), ion the concentration of CrVI in a corrosion-protection conditions. The results obtained by IEC 62321-7- on of the presence/absence of Cr(VI) within the
Test Result(s)	: Please refer to next page(s)	testing of metals for F DDA DDE is gratuitous

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Conclusion

: Based on the performed tests on submitted sample(s), the test results of Lead, Mercury, Cadmium, hexavalent Chromium **comply** with the limits as set by RoHS Directive 2011/65/EU, Annex 2 and subsequent amendments

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# Test results by chemical method (Unit: mg/kg)

Sample No.		181154552		
Test Item(s):	Method (refer to)		<u>RL</u>	RoHS Limit
Cadmium(Cd)	(1)	n.d.	1	100
Lead (Pb)	(2)	n.d.	10	1000
Mercury (Hg)	(3)	n.d.	0,5	1000
Chromium, hexavalent (Cr(VI))	(5 B)	n.d.	1	1000
Sum of PBDEs	(6)	-	-	
Monobromodiphenyl ether		n.a.	50	1000 (Sum of polybrominated diphenyl ether)
Dibromodiphenyl ether		n.a.	50	
Tribromodiphenyl ether		n.a.	50	
Tetrabromodiphenyl ether		n.a.	50	
Pentabromodiphenyl ether		n.a.	50	
Hexabromodiphenyl ether		n.a.	50	
Heptabromodiphenyl ether		n.a.	50	
Octabromodiphenyl ether		n.a.	50	
Nonabromodiphenyl ether		n.a.	50	
Decabromodiphenyl ether		n.a.	50	
Sum of PBBs		-	-	
Monobromobiphenyl		n.a.	50	
Dibromobiphenyl		n.a.	50	1000 (Sum of polybrominated biphenyls)
Tribromobiphenyl		n.a.	50	
Tetrabromobiphenyl		n.a.	50	
Hexabromobiphenyl		n.a.	50	
Pentabromobiphenyl		n.a.	50	
Heptabromobiphenyl		n.a.	50	
Octabromobiphenyl		n.a.	50	
Nonabromobiphenyl		n.a.	50	]
Decabromobiphenyl		n.a.	50	

Note : mg/kg = ppm

n.d.= not Detected

RL = Report Limit

n.a.= not analyzed

\*\*= elevated reporting limit due to matrix interferences





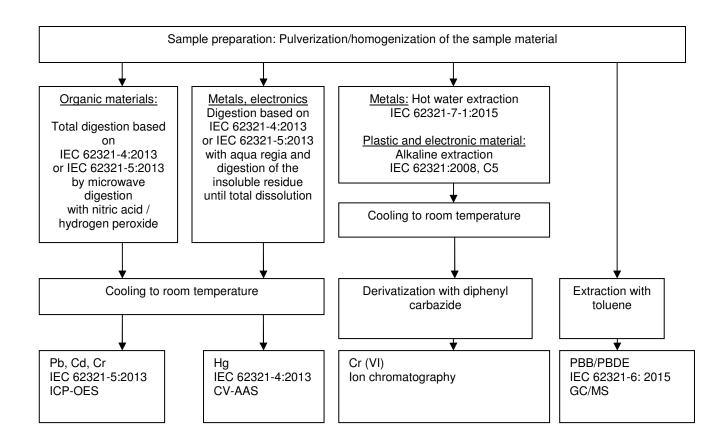
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#### Flow Chart for the working flow of the performed analysis







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#### Sample Photo(s)



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