

## Test Report

No. 4754657-01

Date: 17/JAN/2019

Page 1 of 5

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
181153649	JV75	electronic component

Test requested : In accordance with the RoHS Directive 2011/65/EU and subsequent amendments

Test Method(s) : (1) Determination of Cadmium by ICP-OES, acc. IEC 62321-5:2013  
 (2) Determination of Lead by ICP-OES, acc. IEC 62321-5:2013  
 (3) Determination of Mercury by CV-AAS, acc. IEC 62321-4:2013  
 (4) Determination of Chromium by ICP-OES, acc. IEC 62321-5:2013  
 (5) Determination of Chromium (VI) acc. IEC 62321:  
 A) (metal samples) Determination after extraction with hot water and derivatisation with 1,5-diphenyl-carbazide based on IEC 62321-7-1:2015 (metal samples), ion chromatography  
 B) (non-metallic samples) Determination after alkaline extraction and derivatisation with 1,5-diphenyl-carbazide based on IEC 62321, Ed1, 2008, C5 (polymer and electronic samples), ion chromatography  
*Remark: Due to its highly reactive nature the concentration of CrVI in a corrosion-protection changes drastically with time and storage conditions. The results obtained by IEC 62321-7-1:2015 can therefore only give an indication of the presence/absence of Cr(VI) within the limitations of the method at the time of testing.*  
 (6) Determination of PBB/PBDE by GC/MS, acc. IEC 62321-6:2015  
*Remark: Please note that acc. to IEC the testing of metals for PBB/PBDE is gratuitous*

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

R:\J\Jauch Quartz GmbH\_10008399\2018\4754657\4754657-01\_ROHS.Doc

## Test Report

No. 4754657-01

Date: 17/JAN/2019

Page 2 of 5

Jauch Quartz GmbH  
In der Lache 24  
78056 Villingen-Schwenningen  
GERMANY

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

### SGS INSTITUT FRESENIUS GmbH

i.V.

  
Wera Leonhard / hi  
Projektleiterin / Project Manager  
Consumer and Retail  
Tel. +49 (0)6128 / 744 - 186

i.A.

  
Annkatrin Kuhl  
Projektleiterin / Project Manager  
Consumer and Retail  
Tel. +49 (0)6128 / 744 - 280

## Test Report

No. 4754657-01

Date: 17/JAN/2019

Page 3 of 5

Jauch Quartz GmbH  
In der Lache 24  
78056 Villingen-Schwenningen  
GERMANY

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

Sample No.		181153649		
Test Item(s):	Method (refer to)		RL	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
<b>Sum of PBDEs</b>	(6)	-	-	1000 (Sum of polybrominated diphenyl ether)
Monobromodiphenyl ether		n.a.	50	
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	
<b>Sum of PBBs</b>		-	-	
Monobromobiphenyl		n.a.	50	
Dibromobiphenyl		n.a.	50	
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

# Test Report

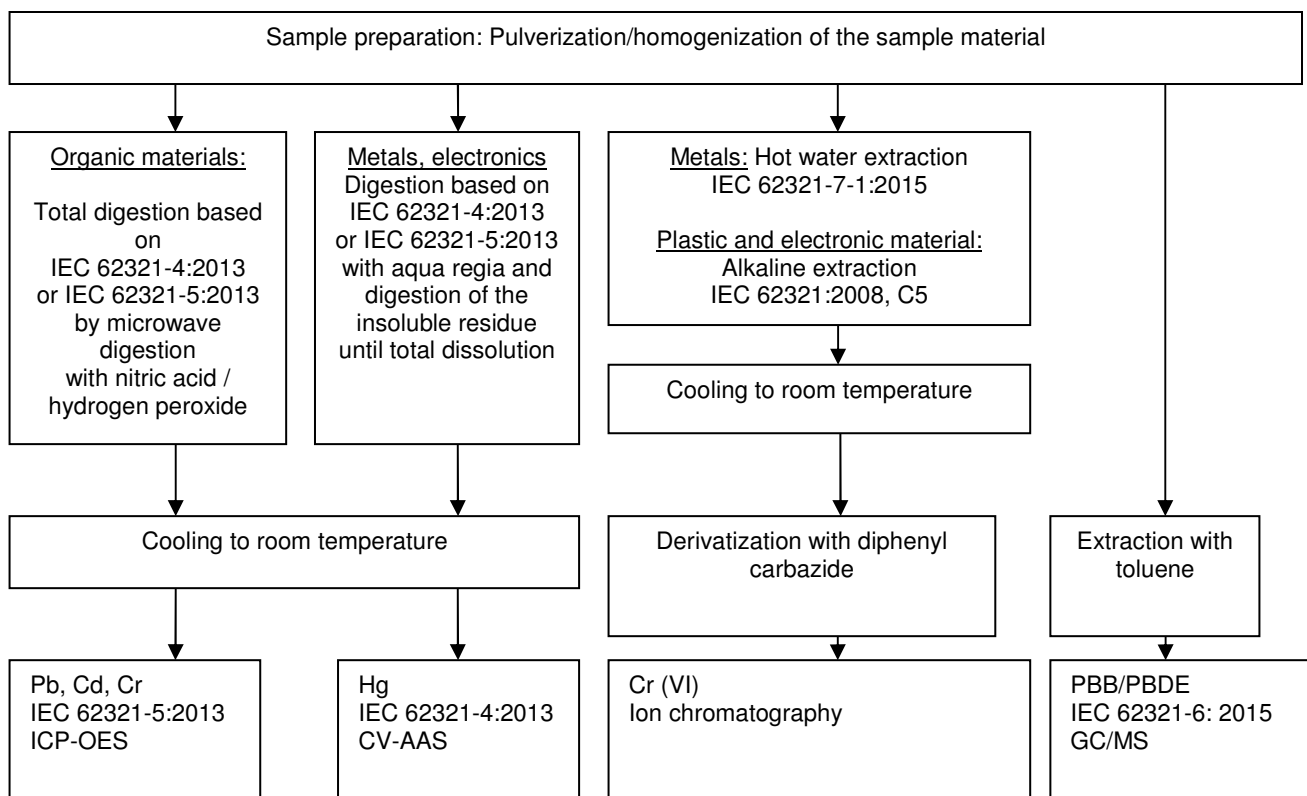
No. 4754657-01

Date: 17/JAN/2019

Page 4 of 5

Jauch Quartz GmbH  
 In der Lache 24  
 78056 Villingen-Schwenningen  
 GERMANY

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



**Test Report**

No. 4754657-01

Date: 17/JAN/2019

Page 5 of 5

Jauch Quartz GmbH  
In der Lache 24  
78056 Villingen-Schwenningen  
GERMANY

**Sample Photo(s)**

\*\*\*End of test report\*\*\*

This document is issued by the Company subject to its General Conditions of Service ([www.sgsgroup.de/agb](http://www.sgsgroup.de/agb)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein.  
WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.