



Infineon Requirements for Laboratory Analytical Test Reports

It is the policy of Infineon Technologies AG that suppliers worldwide shall comply with environmental regulations for restricted or banned substances.

In its Purchase Specifications Part B Infineon Technologies AG requires its suppliers to provide chemical analysis reports from accredited laboratories to demonstrate compliance with Directive 2015/863/EU amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 for each supplied material and article remaining in Infineon products.

For materials which claim to be halogen free such as substrates, moulding compounds, die attach, Infineon Technologies AG requires its suppliers to provide chemical analysis reports from accredited laboratories to demonstrate the absence of halogens Chlorine and Bromine.

In addition, Infineon requires its suppliers to provide chemical analysis test reports of the phthalates Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) and Beryllium.

The test report shall present the test results and other relevant information accurately, clearly and unambiguously.

With this document IFX defines specific requirements which information shall be included in each chemical analysis report:

- a) Name, address and location of any laboratory involved in the analysis and name of the operator.
- b) Date of receipt of sample, date(s) and number(s) of performed test(s).
- c) The date of analysis shall not be older than one year from the date of submitting to Infineon Technologies.
- d) Unique identification of report (such as serial number) and of each page and total number of pages of the report.
- e) Description and identification of the sample, including a description of any product disassembly performed to acquire the test sample, lot or batch number, total mass and a picture of the analysed sample.
- f) For the RoHS analysis a reference to the IEC 62321 standard, the method used or performance-based equivalent (including digestion method(s) and test equipment).
- g) For the halogen analysis a reference to the EN 14582 standard, the method used or performance-based equivalent (including digestion method(s) and test equipment).
- h) For the phthalates analysis a reference to the IEC 62321-8 standard, the method used or performance-based equivalent (including digestion method(s) and test equipment).

- i) For the Beryllium analysis a reference to the US EPA method 3050B or US EPA method 3052 used or performance-based equivalent (including digestion method(s) and test equipment).
- j) The Limit of Detection (LOD) or Limit of Quantification (LOQ).
- k) The results of the test expressed as milligrams / kilogram ("mg/kg") in samples tested.
- l) Signature of the responsible laboratory manager and stamp of the laboratory.
- m) Any details not specified in this standard which are optional, and any other factors which may have affected the results. Any deviation, by agreement or otherwise, from the test procedure specified here.

Corrections or additions to a test report after issue shall be made only in a further document suitably marked, e.g. "Amendment/Addendum to test report serial number (or as otherwise identified)", and shall meet the requirements of the preceding paragraphs.