

4. The following requirements shall be satisfied:

(a) Emissions of NMVOCs shall be monitored 1/ and compliance with limit values shall be verified. The methods of verification may include continuous or discontinuous measurements, type approval, or any other technically sound method; furthermore, they shall be economically viable;

(b) The concentrations of air pollutants in gas-carrying ducts shall be measured in a representative way. Sampling and analysis of all pollutants, as well as reference measurement methods to calibrate any measurement system, shall be carried out according to the standards laid down by the European Committee for Standardization (CEN) or by the International Organization for Standardization (ISO). While awaiting the development of CEN or ISO standards, national standards shall apply;

(c) If measurements of emissions of NMVOCs are required, they should be carried out continuously if emissions of NMVOCs exceed 10 kg of total organic carbon (TOC)/h in the exhaust duct downstream from an emission reduction installation and the hours of operation exceed 200 hours a year. For all other installations, discontinuous measurement is required as a minimum. For the approval of compliance, own approaches may be used provided that they result in equal stringency;

(d) In the case of continuous measurements, as a minimum requirement, compliance with the emission standards is achieved if the daily mean does not exceed the limit value during normal operation and no hourly average exceeds the limit values by 150%. For the approval of compliance, own approaches may be used provided that they result in equal stringency;

(e) In the case of discontinuous measurements, as a minimum requirement, compliance with the emission standards is achieved if the mean value of all readings does not exceed the limit value and no hourly mean exceeds the limit value by 150%. For the approval of compliance, own approaches may be used provided that they result in equal stringency;

(f) All appropriate precautions shall be taken to minimize emissions of NMVOCs during start-up and shutdown, and in case of deviations from normal operation; and

(g) Measurements are not required if end-of-pipe abatement equipment is not needed to comply with the limit values below and it can be shown that limit values are not exceeded.

5. The following limit values should be applied for waste gases, unless stated otherwise below:

(a) 20 mg substance/m<sup>3</sup> for discharges of halogenated volatile organic compounds (which are assigned the risk phrase: possible risk of irreversible effects), where the mass flow of the sum of the considered compounds is greater than or equal to 100 g/h; and