

CTL DECISION SHEET

Standard(s): IEC 60065/2001 A1/2005 IEC 60950-1/2005 IEC 60601-1/2005 IEC 61010-1/2001 IEC 60335-1/2001 A1/2004 A2/2006	Sub clause(s): Various	Sheet N°: 624/07 CTL-WG4 Page: 1(1)
Subject(s): Humidity test requirements	Key words: - 93% RH - +/-3% RH tolerance - 20 – 30°C	Meeting: Decision confirmed at 45th CTL meeting
<p>Question: Various IEC standards have requirements for humidity/temperature conditioning, but have different specifications for the test conditions.</p> <p style="margin-left: 40px;">IEC 60065 – 93 +2%/-3% (t 30°C +0/-2°C) IEC 60950-1 – 91% - 95% (t 20-30°C +/-1°C) IEC 60601-1 – 93 + 3%/-3% (t 20-30°C) IEC 61010-1 – 92,5 + 2,5%/-2,5% (t 40°C +/- 2°C) IEC 60335-1 – 93 + 3%/- 3% (t 20-30°C +/-1°C)</p> <p style="margin-left: 40px;">There does not seem to be a technical justification for the differences in the specifications. Accordingly, it is suggested and recommended that the humidity/temperature specifications in the above standards be consistent.</p> <p>Decision: The chamber is to be set at 93% RH, with +/-3% RH tolerance, at a convenient temperature between 20°C and 30°C, but the chosen temperature to be kept within +/- 2°C during the test. The standard specifications for the humidity are to be met at the reference/measuring point, where the controlling humidity sensor is located. The tolerances permitted in CTL DSH 251A (+/-6% RH) are allowed in other parts of the humidity chamber, away from the reference point.</p> <p>Explanatory notes: --</p>		