Features:

- For All Phases of EMC Testing:
  - Design Qualification
  - Pre-Compliance
  - Full Compliance
  - Production QC

- For Full Compliance Demonstration of:
  - IEC 61000-4-20,
  - EN 61000-4-3,
  - IEC 61976-2 draft,
  - MIL-STD 462, ANSI C63.4,
  - EN 55022 and VDE 0871
  - SAE J1752/3

- Reduces Test Time
  - ≈ 8:1 for RE (vs. OATS)
  - ≈ 2:1 for RI (vs. chamber)

ETS-Lindgren’s Model 5402 GTEM™ cell lets you perform radiated emissions and radiated immunity tests in less time than at either an OATS or in a chamber. A typical radiated emissions test (10,000 point scan) can be completed in 15 minutes or less, while a typical radiated immunity test can usually be completed in half the normal time.

Tests can be performed quickly and accurately throughout the product life cycle; design qualification, pre-compliance testing, full compliance testing and production.

The GTEM!’s unique tapered shape, offset septum, resistive termination network and absorber-lined backwall remove performance limitations of TEM cells and boxy enclosures. Electromagnetic wave and RF current termination are smooth and controlled. Field uniformity is ± 3 dB up to 1 GHz, and ± 4 dB above 1 GHz.

The GTEM! is based on experience, not experimentation. Originally developed in the EMC Baden (Switzerland) labs of ABB, the cell has been accepted in the EMC community for more than 10 years, and is field proven daily at more than 400 installations worldwide. Measurements made with a GTEM! are accepted for final compliance demonstration by the FCC for Part 15 & 18 radiated emissions testing, and comply with IEC 61000-4-20.

Applications

- RE, RI Testing
  - Design Qualification
  - Pre-Compliance
  - Full-Compliance
  - Post Production QC

Typical EUTs

- ICS
- Components
- Modules
- Small Systems

Industries Served

- Computer
- Telecom
- Medical
- Automotive
- Aerospace
- Military
## Electrical Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQUENCY RANGE</th>
<th>VSWR TYPICAL</th>
<th>MAXIMUM CW INPUT POWER</th>
<th>INPUT IMPEDANCE</th>
<th>FEED CONNECTOR TYPE</th>
<th>SHIELDING EFFECTIVENESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5402</td>
<td>9 kHz - 5 GHz</td>
<td>CHARACTERISTIC FREQ&lt;sup&gt;1&lt;/sup&gt; 1.37:1</td>
<td>50 W</td>
<td>50Ω</td>
<td>CW</td>
<td>80 dB MINIMUM</td>
</tr>
<tr>
<td></td>
<td>DC - 20 GHz</td>
<td>ALL OTHER FREQ 1.3:1</td>
<td></td>
<td></td>
<td>7/16 DIN PLUG TO TYPE N ADAPTER</td>
<td>10 kHz - 1 GHz</td>
</tr>
</tbody>
</table>

### Options
- Custom Electrical Filters
- Custom Feedthrough Panels
- EUT XYZ Axis Positioning Device
- EUT Illumination
- Forced Ventilation
- High Power Configuration

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ETS-Lindgren manufactures various size GTEM’s for a variety of applications.