GENERAL DESCRIPTION:
The LISA® Manportable system has been developed as part of the DHS S&T Low Vapor Pressure Chemical Detection Systems (LVPCDS) program. The system provides a capability to perform real-time sensitive site assessment (e.g., inspect buildings, roadside formations, equipment, vehicles, aircraft, and other manmade or natural surfaces) for the presence of low vapor pressure chemicals, other persistent chemical agents, and TICs, with the expanded capability to include explosives, homemade explosives and their precursors.

TECHNICAL DESCRIPTION:
Not provided.

CONTACT INFORMATION
ITT Corporation
5901 Indian School Rd
Albuquerque, NM 87110
POC: Howard LaValley
505-889-7002

COST
N/A

Tier Selection
Final tier assignment is based on overall product score.

<table>
<thead>
<tr>
<th>RANKINGS</th>
<th>Biological</th>
<th>Chemical</th>
<th>Radiological</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIELD USE System</td>
<td>N/A</td>
<td>🍀 (Top)</td>
<td>N/A</td>
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<tr>
<td>MOBILE Laboratory</td>
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<td>DIAGNOSTIC Laboratory</td>
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<td>🍀 (Top)</td>
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<tr>
<td>ANALYTICAL Laboratory</td>
<td>N/A</td>
<td>🍀 (Top)</td>
<td>N/A</td>
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</table>

Survey Source
Vendor and Internet Supplied Information
System scores are compared across the four scenarios and ranked from highest to lowest.

**Evaluation Criteria**

**Throughput:**
- 2 minutes or less for detection
- Multiple samples, multiple tests/sample per run
- 95-32 samples every 2 hours
- The system could be adapted to a semi-automated system with some effort
- Device or system is intended for multiple detection assays
- 0-1 solutions, buffer, eluents, and/or reagents
- 10-20 minutes is required for set-up
- 1-2 steps are required for detection

**Logistics:**
- An afternoon of training and some technical skills required
- Approximately the size of a home dishwasher
- More than 50 kg
- System or device has 110V electrical requirement
- 2-4 hours battery life

**Operations:**
- Can be used from 4°C to 41°C
- Components must be stored at room temperature (27°C)
- Performance is not influenced by relative humidity
- Results can be viewed in real-time
- The system could easily be adapted into a fully autonomous system

**Detection:**
- Not possible for the system to achieve clearance
- Not possible for the system to achieve approval
- Excellent specificity. System has occasional false alarms under certain conditions (<2%)