



Overview

MacB operates an Innovation Lab in its Dayton, Ohio facility. This lab is used to provide design, development, integration and testing of prototype sensor systems and subsystems in support of USAF customers. Lab work focuses on activities with technology readiness levels (TRL) between TRL 3 and TRL 8.

The Wright Innovation Lab complex incorporates multiple SCIFs and SAP spaces and includes an anechoic chamber, our Advanced Processing Lab, Special Projects Area (SPA) and MacB Classified Computer Network (MCCN) capabilities.

Our Anechoic Chamber meets EMI/EMC MIL STD-461/462f and RTCA DO-106E Standards and is used to develop techniques to identify specific emitters in a dense RF background, test classified hardware prior to deployment, develop and test software and hardware prior to field and flight tests, and as a supplement to government facilities as required.

DESCRIPTION

PARAMETERS

| | |
|---------------------------------|---|
| Dimensions | 18'(W) x 12'(H) x 25'(D) |
| Isolation Certified to | 100dB |
| Between Frequencies | 100MHz - 10GHz |
| Reflectivity Attenuation | -33 dB at 120 MHz to -50 dB at 1 GHz and above |



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The MCCN is our computer/software modeling facility used in the modeling, simulation and demonstration of sensor systems, such as the CMWS SIL and Next Gen MWS DSMs. We employ a series of USAF models to conduct multiple scenarios focused on electronic warfare and sensor effects.

Our Advanced Processing Lab is a secure area equipped with work stations, classified storage containers, ESD 6x3 workbenches, electronic test equipment, cables and tools; large open area for additional workbenches/storage/large item working area. The SPA provides for additional dedicated lab for SAP-level projects.

Additionally, we have experience in HITL simulation of sensor performance using simulated environments to stimulate the sensors, along with custom developed tools to take data for analysis of sensor and system performance.