

Test Plan

System Testing

- Fundamental or Core Testing
 - Requirements testing
 - Exception testing
 - Boundary conditions
- Regression testing
 - Redo fundamental/core tests
 - Special case tests
- Testing time usually takes as long as the development/design phases

Test Plan

- Must meet Requirement Documents Standards
- Requirements are clearly numbered
 1. Unambiguous
 2. Complete
 3. Verifiable
 4. Consistent
 5. Modifiable
 6. Traceable
 7. Usable during the Operation and Maintenance Phase
- One test for each requirement

Typical Test Plans Design

- Purpose of Test
 - Regression/Core Test
- Requirement to be tested
- Reference documents
 - Design requirements and other standards
- Equipment needed to perform test
- Test configuration and equipment setup including a block diagram
- Test procedures to perform test
- Test input data vs. expected test results and/or spec limits
- Table to record/document test results with an indication of pass/fail, date and time of test, and signature of tester

Example Test Case

[Test Case 110] Channel Frequencies

Purpose: To verify that the LCMM and LCMR satisfy the Channel Frequency specification. This is a core test.

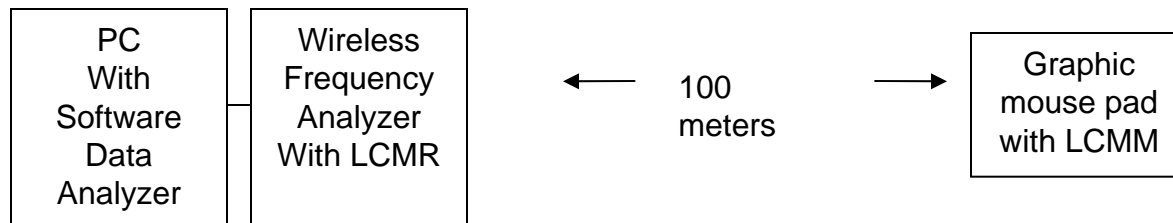
Specification:

Direct Specification Source: LCMFD.01 section 4.2 [R110]

Bluetooth and WiFi Specifications TBD

LCMDD.01 section XX [R-TBD]

Test Architecture:



Example Test Case Continued

Equipment:

- 1.PC with the Software Data Analyzer installed
- 2.LCMM with graphic mouse pad
- 3.Wireless Frequency Analyzer With LCMR installed

•Test Procedure:

- 1.Connect the Wireless Frequency Analyzer to the USB port of the computer
- 2.Connect the LCMR into the Wireless Frequency Analyzer
- 3.Launch the Software Data Analyzer on the PC
- 4.Configure the Software Data Analyzer to display mouse output data
- 5.Set the LCMM and graphic mouse pad at a distance of 100 meters
- 6.Move the LCMM on the graphic mouse pad 1 cm horizontal
- 7.Record the frequency at the Wireless Frequency Analyzer
- 8.Move the LCMM on the graphic mouse pad 1 cm vertical
- 9.Record the frequency at the Wireless Frequency Analyzer
- 10.Move the LCMM on the graphic mouse pad 1 cm diagonally.
- 11.Record the frequency at the Wireless Frequency Analyzer
- 12.Move the LCMM and graphic at a distance of 50 meters and repeat steps 6-11.

Example Test Case Continued

•Expected Results

•Test passes if all of the following occurs:

- 1.frequencies recorded for all vertical movements is within the values (TBD) described in LCMDD.01 section XX [R-TBD.
- 2.frequencies recorded for all vertical movements is within the values (TBD) described in LCMDD.01 section XX [R-TBD.
- 3.frequencies recorded for all diagonal movements is within the values (TBD) described in LCMDD.01 section XX [R-TBD.

Test Results:

Item	Test Result: frequency	Pass/Fail
100 meters Horizontal		
100 meters Vertical		
100 meters Diagonal		
50 meters Horizontal		
50 meters Vertical		
50 meters Diagonal		