

Purpose of Experiment

The purpose of this license application is to support our ability to perform electromagnetic compatibility immunity testing on products that must legally comply with existing European Union requirements. One of the required tests consists of placing a transmitting antenna near the equipment under test and generating an RF field having a field strength of (10) volts per meter at a separation distance of (3) meters. Normally this testing is performed in our semi-anechoic chamber however some of our client's products are too large to fit into the chamber, yet they still must be tested.

The range of frequencies used for this testing is between (30) MHz and (1) GHz. The testing begins at (30) MHz in a CW mode, switches to (80%) amplitude modulation as modulated by a (1) kHz CW signal. The RF output is then turned off and the frequency is then increased to the next higher frequency listed on the application, and the testing is repeated until (1) GHz is reached.

The testing will be completed on the property owned by the manufacturer of the equipment being tested.

Each frequency listed on the application will be used for a period of time not exceeding (1) second and will only be used a maximum of (12) times for a total usage of (12) seconds during the entire life of the application.

All of the testing should be completed within one day.