1.0 EUT Description

The Equipment Under Test (EUT) is the **PGI International Remote Shut-Off Device**. The **Remote Shut-Off Device** is a miniature RF module that provides a cost effective high performance FM radio data link, at 433.92 MHz or 315 MHz. There are no adjustable components and ensures very reliable operation over time. The EUT operates at 433 MHz and is designed for compliance with 47 CFR 15.231 of the FCC rules. Specific test requirements for this device include the following:

47 CFR 15.231	Fundamental Transmit Power
47 CFR 15.231 & 15.205	Spurious Radiated Power
47 CFR 15.231 & 2.1049	Occupied Bandwidth (2.989 used as Procedural Reference)
47 CFR 15.203	Antenna Requirement

The system tested consisted of the following:

Manufacturer & Model	**Serial #**	**FCC ID #**	**Description**
PGI International, Remote Shut-Off Device	1026-ASY-02	QHL-RSDT-1	RSD Transmitter

1.1 EUT Operation

The **Remote Shut-Off Device** was held by one technician and operated by pressing a key to transmit a signal while a second technician measured and logged the transmitted signal. This procedure was performed through out the tests. Setup and operational modes cover worst-case configuration and operational modes for the device. The frequency of the transmitting signal is 433 MHz.

2.0 Electromagnetic Emissions Testing

Professional Testing (EMI), Inc. (PTI), follows the guidelines of NIST for all uncertainty calculations, estimates and expressions thereof for EMC testing.

Radiated emission measurements were made of the Fundamental and Spurious Emission levels for the **Remote Shut-Off Device**. Measurements of the occupied bandwidth were also made for the equipment.

Measurements of the maximum emission levels for the fundamental and the spurious/harmonic emissions of the **Remote Shut-Off Device** were made at the Professional Testing "Open Field" Site 3, located in Round Rock, Texas to determine the radio noise radiated from the EUT. A "Description of Measurement Facilities" has been submitted to the FCC and approved pursuant to Section 2.948 of CFR 47 of the FCC rules.

Tests of the fundamental and spurious harmonics for the device were performed to determine the worst-case polarization of the devices. The fundamental and spurious emissions of the device were measured with the antennas of the devices vertical and horizontal to the ground plane.