

Intelligent Automation, Inc.

15400 Calhoun Drive ▲ Suite 190 ▲ Rockville, MD 20855  
Tel 301-294-5200 ▲ Fax 301-294-5201 ▲ www.i-a-i.com



December 15, 2016

MET Laboratories, Inc.  
914 West Patapsco Avenue  
Baltimore, MD 21230

RE: FHSS Declaration Statement Letter for “GRIDLOCK” module, FCC ID 2AI6Y-  
GRIDLOCK with respect to FCC Part 15C Sections 15.247(g) and 15.247(h)

To Whom It May Concern:

**Compliance for section 15.247(g):**

The 2.4GHz system-on-chip (SoC) within the GRIDLOCK modular device complies with the IEEE 802.15.4e standard and uses a Time Synchronized Channel Hopping (TSCH) MAC. According to this specification, the SoC transmits packets with a pseudorandom hopping pattern across 15 channels when presented with continuous data. Short burst transmissions from the system are also transmitted with pseudorandom frequency hopping.

**Compliance for section 15.247(h):**

The IEEE 802.15.4e compliant SoC does not use intelligence to adapt its hopset to avoid occupied channels, and it does not coordinate with any other FHSS systems to avoid simultaneous occupancy of individual hopping frequencies by multiple transmitters.

Please contact me if there is any information you may need.

Sincerely yours,

David Mayhew  
Principal Engineer  
Intelligent Automation, Inc.