



R/C UAV Testing on Government Contract

RE: Form 442 Q4: Government Project Description, Exhibit

File Number:

Confirmation Number:

Date: April 2020

Experiment Overview

Systems & Technology Research (STR) is leading an effort on the DARPA Mercury program. The program involves a series of technology maturation tests to be performed by the STR team throughout CY2020 at Fort Devens MA culminating in a system test not addressed within this request.

Flight Test operations will occur in R-4102 A&B at the Devens Reserve Forces Training Area in Devens, MA. The test will include up to 5 modified commercial drones with onboard payload/communications/PNT capabilities. The UAVs will be controlled via the Futaba R6208SB 2.4-2.485 GHz radio controller for safety operators via joystick. The UAVs will be restricted to the R-4102 A and B air space with a maximum altitude of 3,995 feet MSL.

This effort will be expected to begin in May 2020 and extend through November 2020. Four tests are planned, spaced approximately 2 months apart. Each test will last from 2-4 days.

Fort Devens frequency management has requested the Futaba R6208SB be approved by FCC for operations at Fort Devens. The Futaba R6208SB has previously been approved by FCC for ISM band use under FCC ID AZPR6308SBT-24G.

Antenna Parameters:

The antenna is a simple two wire antenna. The antenna pattern is omni-directional. The antenna gain is -1.16 dBi.

EUT External Photos

Figure 1
General Appearance (Front & Side View)

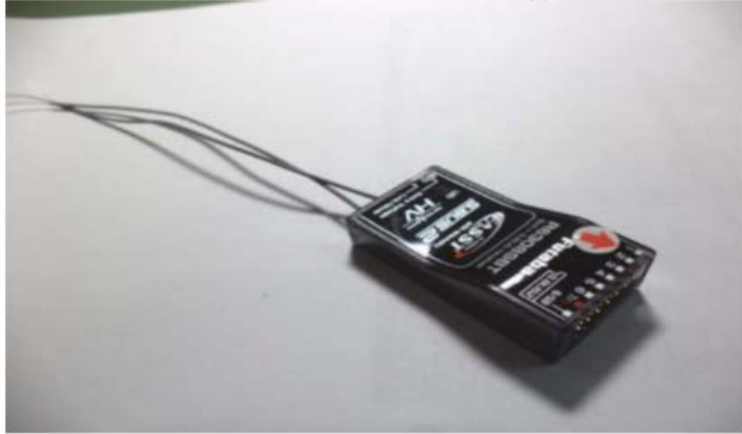


Figure 2
General Appearance (Back & Side View)

