

ABSTRACT OF THE DISCLOSURE

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AUTONOMOUS RADIO FREQUENCY MAPPING

10 An autonomous vehicle operable to traverse a scanning path for mapping radio frequency signal emits from a test object is provided. The autonomous vehicle comprising a height controllable antenna mounted onto the autonomous vehicle, a Central Processing Unit (CPU) providing control of the autonomous vehicle. A navigation system calculates relative distance and direction for the autonomous vehicle's scanning path around the test object. A vehicle control system, responsive to said CPU, positions the vehicle at an initial scanning
15 position and causes traversal of the scanning path. An antenna elevation system is controlled by the CPU to set the antenna to one or more heights during the scanning path. A data acquisition system acquires and stores at least RF signal strength continuously in the course of said scanning path.

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(FIG. 1)