



Fig. 2. (a) Top view of a cat head showing locations of 12 holes and (b) mid-sagittal plane of a cat's skull showing locations of hydrophone during measurements.

surements. By noting the stereotaxic coordinates of each location away from the center of applicator, a measure for the depth was obtained.

Single pulses of microwave ($2 \mu\text{s}$ at 2.45 GHz) were produced using a microwave generator (Epsco PH40k, Westwood, MA), which was controlled by an external pulse generator. The pulses were applied to the surface of the head using a direct-contact applicator (15 mm in diameter, Elmed, Addison, IL). The pulse controller consisted of a ramp generator (Tektronix RG501, Beaverton, OR), a pulse generator (Tektronix PG505), and a function generator (Tektronix FG501). A double stub tuner was employed to reduce the reflection coefficient. The peak incident power of pulsed microwave was 15 kW. The average incident and reflected powers were measured using a bidirectional coupler and two Hewlett-Packard (Palo Alto, CA) 431C power meters.