DLS ELECTRONIC SYSTEMS, INC.

166 South Carter, Genoa City, WI 53128

RF Exposure Compliance

Company: NingBo Kaitai Electronic Co. Ltd
Model: E-94B
Formal Name: B/T cooking thermometer

Rule Part: CFR 47 Part 1.1307(b)
CFR 47 Part 2.1093

Test Procedure: FCC 447498 10 D01 General RF Exposure Guidance v05
4.3. General SAR test reduction and exclusion guidance
4.3.1. Standalone SAR test exclusion considerations

Limits: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)]· [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

f(GHz) is the RF channel transmit frequency in GHz.
Power and distance are rounded to the nearest mW and mm before calculation.
The result is rounded to one decimal place for comparison.

When the minimum *test separation distance* is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Output Power: This is a portable device. Antenna gain is -2.82 dBi.
Maximum radiated peak field strength = 91.3 dBµV/m at 3 meters
EIRP (dBm) = Field Strength (dBµV/m) + 20 log (3 meters) – 104.8
= -3.957 dBm
Conducted Power (dBm) = EIRP (dBm) – antenna gain (dBi)
= -1.137 dBm = 0.77 mW
Maximum target value (conducted) including production tolerances
= 0 dBm = 1 mW

Exclusion threshold: [1 mW / 5 mm] x [√2.480GHz] = **0.3**

Results: **0.3 is ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.**
SAR measurement is not necessary.