<u>RF Exposure / MPE Calculation</u>

| No. | : | 10792621H |
|-------------------|---|---------------------------------|
| Applicant | : | MITSUBISHI ELECTRIC CORPORATION |
| | | SANDA WORKS |
| Type of Equipment | : | Car Audio |
| Model No. | : | AR-0H |
| FCC ID | : | UJHAR0H |

MITSUBISHI ELECTRIC CORPORATION SANDA WORKS declares that Model: AR-0H complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "AR-OH" as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of \$1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

P =0.77 mW (Maximum average output power)G =1.706 Numerical Antenna gain; equal to 2.32 dBir =20 cm (Separation distance)

Power Density Result $S = 0.00026 \text{ mW/cm}^2$

Even taking into account the tolerance, this device can be satisfied with the limits.