



Date: August 9, 2000.

Authorization and Evaluation Division
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Att: Errol Chang and Kwok Chan.

Subject: Response to correspondence number 14727, confirmation number EA97158, for
FCC ID: AZ492FT1627.

Gentlemen:

Q1. The MPE report described in the response has not been attached to the reply as indicated, please upload report.

A1. Report uploaded.

Q2. Reply indicates controlled exposure limit is applicable to persons outside the vehicle (bystanders) and uncontrolled exposure limit is applicable to vehicle occupants. It should be the reverse. Bystanders with no knowledge of their exposure conditions cannot qualify for controlled exposure limits. For vehicle occupants, they may qualify for controlled limits only if they have the knowledge to control their exposure conditions and it is work related. Please clarify and revise all relevant manual info as necessary.

A2. Motorola chose to perform SAR measurements to show compliance. The attached report shows that the hot spot is near the maximal H field, consistent with our previous experience. The ground effect is compensated by moving the antenna closer to match the field intensity. Within the limit of the laboratory setting, the maximal SAR is two orders of magnitude lower than the peak SAR limit for the uncontrolled environment. For the same type quarter wavelength antennas within the same frequency band (25 to 50 MHz) and power range (up to 110 W), the SARs are expected to be low as measured with this representative antenna.

One can conclude that even with increased experimental uncertainty, the measured SAR is more than two orders of magnitude below the 1.6 W /kg limit for the uncontrolled environment. From these results, we can confidently conclude that for low band (25 to 50 MHz) using the same quarter wavelength antennas with operating power up to 110 W, mobile radio can be safely operated with bystanders near the car under uncontrolled environment. Hence, Motorola saw no need to modify the existing User's Manual.

We trust that the above information satisfies your requirements. Please contact me at (954) 723-5793, if you require any additional information.

Sincerely,

Mike Ramnath.

FCC Liaison.

Email: emr003@email.mot.com