



15<sup>th</sup> January 2003

Mr. Tim Harrington  
Authorization & Evaluation Division  
Federal Communications Commission Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046

TCB Audit: TC129243 with FCC ID: AZ492FT4859.

Dear Mr. Harrington;

Motorola Inc., 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322, herein submits its response to the 10<sup>th</sup> January 2003 for information in Correspondence Number TC129243.

Q1) Nominal output power is 40W. 90.205(o) allows Form 731 line item power to be exceeded by 20% = 48W. Please revise Form 731 power to 40W. Grant note could be included about 90.205(o) and max power. Grant note could be included about max power in MPE test 47.1W.

R1) Motorola would prefer that a maximum power of 48 Watt, as measured in Exhibit 6-A, be listed on the Grant.

Q2) MPE report sec. 11 - why the factor of 2 divisor for veh. internal and external power density? If this is user-based 50% duty factor, add grant note referring to that.

R2) Maximum duty cycle is 50%.

Q3) MPE report sec. 11 - what are veh. spec. limits for?

R3) See amended MPE Report.

Q4) MPE report sec. 6 - what is distance from veh. to MPE vert. line?

R4) See amended MPE Report.

Q5) MPE report pp. 12-17 - FCC guidelines do not define how obtain "S.A.R. calculated." Were these numbers used in TCB compliance evaluation? Please explain, and revise report if needed.

R5) MPE Report was amended to identify which antennas are to be installed on the trunk lid of a vehicle. Also, see the attached Antenna Installation Instructions Addendum

Q6) In future filings, please use table-numbering and list-of-tables for MPE results to allow easier referencing.

R6) See amended MPE Report for table numbering.

Q7) May need grant note similar too:

Output power is conducted. RF exposure compliance was determined using a x dBi, y dBi, z dBi vehicle-mount antennas only. Qualified end-users of this device must have the knowledge to control the exposure conditions of vehicle passengers, and of bystanders to ensure a minimum

separation distance of xx cm is maintained between the antenna and persons outside of the vehicle for satisfying MPE compliance. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least xx cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. This device must be used with a maximum transmitting duty factor not exceeding 50% for satisfying RF exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work related use only. End-users must be provided with specific training instructions for meeting Occupational/Controlled Exposure Environment requirements.

R7) We concur with the Grant notes.

Contact me at (954) 723-5793 if you require any additional information.

Regards,  
**/s/ Mike Ramnath**  
FCC Liaison  
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