

Frequency Hopping Spread Spectrum Transmitter Transmitter Certification

FCC ID: JEH7730GA2

ACS Report Number: 04-0209-15C

Manufacturer: NCR Corporation
Models: 7730-2011, 7730-2012, 7730-2014 and 7730-2015

RF Exposure Information

General Information:

Applicant: NCR Corporation
 ACS Project: 04-0209
 FCC ID: JEH7730GA2
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Patch
 Antenna Gain: 2.5dB
 Transmitter Conducted Power: 26.22dBm
 Maximum System EIRP: 28.72dBm
 Operating Configuration: Fix mounted on ceiling
 Exposure Conditions: 20 centimeters

MPE Calculation

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30xPxG}}{d} \quad \text{Power Density: } P_d = (mW/cm^2) = \frac{E^2}{3770}$$

MPE Distance

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*					
Transmit Freq. (MHz)	Radio Power (dBm)	Radio Power (W)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	MPE Distance (cm)
2400.4	26.22	0.41879	2.5	1.78	7.6982

Installation Guidelines

The installation manual contains the following text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

“RF Exposure (Intentional Radiators Only)

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of (20cm) is maintained between the radiating element and the general population.”

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.