



FCC ID: XCO-HSWSR
IC: 7756A- HSWSR

Statement of compliance to Maximum Permissible Exposure (MPE)

Equipment : Powered Speaker
Type/Model : WS80i
Applicant : Hansong(Nanjing) Technology Ltd.
8th Kangping Road, Jiangning Economy and Technology
Development Zone, Nanjing, China, 211100

Here assuming a worst-case prediction of power density (100% reflection), then

$$S = 4PG / (4\pi R^2) = PG / (\pi R^2).$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report SH11050787-001:

The maximum conducted power P = 15.95dBm = 39.36mW

G = 1.00dBi = 1.26

Here R is chosen to be 20cm,

$$S = PG / (\pi R^2) = 39.36 * 1.26 / (3.14 * 20 * 20) = 0.04\text{mW/cm}^2$$

This level is below the 1 mW/cm² MPE for General Population / Uncontrolled Exposure as stated in OET BULLETIN 65 Edition 97-01.

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Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.