

RF Exposure Evaluation declaration

Product Name : Nokia Bluetooth Stereo Headset
Model No. : HS-72W
FCC ID. : PYAHS-72W

Applicant : Nokia Corporation, Nokia Mobile Phones
Address : Joensuunkatu 7E P.O. Box 86, Salo Fin-24100 Finland
Applicable : FCC Guidelines for Human Exposure IEEE C95.1
Standard

Date of Receipt : 2007/08/06
Date of Declaration : 2007/10/18
Report No. : 078119R-RF-US-Exp

The declaration results relate only to the samples calculated.

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1. RF Exposure Evaluation

1.1. Limits

No Evaluation required for output power as below thresholds:

f =GHz, d = Distance (between radiated device and the body)

When $d < 2.5\text{cm}$, Output Power= $(60/f)$ mW.

Ex: $f=2.4\text{GHz}$, Output Power= $60/2.4=25$ mW(13.98dBm).

When $d \geq 2.5\text{cm}$ and $< 20\text{cm}$, Output Power= $(120/f\text{GHz})$ mW,

Ex: $f=2.4\text{GHz}$, Output Power= $120/2.4=50$ mW(16.99dBm).

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result

EUT version: HW_ B4.2 (V3R2), SW_W42-1, MEC_MPT5	
Product	Nokia Bluetooth Stereo Headset
Test Mode	Mode 1: Transmit
Test Condition	Output Power

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.9dBi or 1.950 in linear scale

Output Power into Antenna:

Bluetooth Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Output Power threshold (mw) (d <2.5cm)
0	2402.00	1.0691	24.979
39	2441.00	1.2647	24.580
78	2480.00	1.2942	24.194

The device with the radiating structure maintained within 2.5 cm of the body.

Conclusion:

No SAR evaluation required, since transmitter output power is below threshold.