

RF Exposure / SAR Statement (Reference)

No. : 11170944S

Applicant	:	Sony Corporation
Type of Equipment	:	Wireless Transceiver Module
Model No.	:	BNSY25
FCC ID	:	AK8BNSY25

Sony Corporation declares that Model : BNSY25
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “BNSY25” as calculated from FCC Part 1, §1.1310, TABLE 1 (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S1 = (P * G) / (4 * \pi * r^2)$$

Where

P =	36.56 mW	(Maximum average output power)	
G =	1.39	Numerical Antenna gain; equal to	1.43 dBi
r =	20.0 cm		

For: BNSY25

$$S1 = 0.01011 \text{ mW/cm}^2$$

Even taking into account the tolerance, this device can be satisfied with the limits.

UL Japan, Inc.

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for 5 GHz band

Applicant	:	Wistron NeWeb Corporation
Type of Equipment	:	WLAN/BT Module
Model No.	:	DHSR-SY30
FCC ID	:	NKR-SY30

Wistron NeWeb Corporation declares that Model : DHSR-SY30
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “DHSR-SY30” as calculated
from FCC Part 1, §1.1310, TABLE 1 (B) Limits for General Population / Uncontrolled Exposure.
This calculation is based on the highest EIRP possible from the system,
considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S2 = (P * G) / (4 * \pi * r^2)$$

Where

P =	24.55 mW (Maximum average output power)	
G =	1.38 Numerical Antenna gain; equal to	1.39 dBi
r =	20.0 cm	

For: DHSR-SY30

$$S2 = 0.00673 \text{ mW/cm}^2$$

Even taking into account the tolerance, this device can be satisfied with the limits.

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for Bluetooth

Applicant : **Wistron NeWeb Corporation**
Type of Equipment : **WLAN/BT Module**
Model No. : **DHSR-SY30**
FCC ID : **NKR-SY30**

Wistron NeWeb Corporation declares that Model : DHSR-SY30
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "DHSR-SY30" as calculated from FCC Part 1, §1.1310, TABLE 1 (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S3 = (P * G) / (4 * \pi * r^2)$$

Where

P = 7.38 mW (Maximum average output power)
G = 1.33 Numerical Antenna gain; equal to **1.25 dBi**
r = 20.0 cm

For: DHSR-SY30

$$S3 = 0.00196 \text{ mW/cm}^2$$

Even taking into account the tolerance, this device can be satisfied with the limits.

For simultaneous operation of BNSY25 and DHSR-SY30

$$S = 0.01880 \text{ mW/cm}^2$$
$$S = S1 + S2 + S3$$

Combination of the simultaneous operation of BNSY25 and DHSR-SY30:

- BNSY25 Wireless LAN (All band)
- DHSR-SY30 Wireless LAN (only 5150 MHz - 5250 MHz or 5725 MHz - 5850 MHz)
- DHSR-SY30 Bluetooth (Bluetooth or Bluetooth Low Energy)

Each maximum EIRP value has been used for S1, S2 and S3.

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