



### RF Exposure / MPE Calculation

No. : 28GE0170-HO-01-A

Applicant : Sony Corporation  
Type of Equipment : UHF Synthesized Transmitter  
Model No. : UTX-B2(30)  
FCC ID : AK8UTXB2

Sony Corporation declares that Model : UTX-B2(30)  
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(for portable)/2.1091 (for mobile).

The "UTX-B2(30)" has 34.04 mW of effective radiated power and 55.72 mW of EIRP.  
This kind of equipment is below 60/frequency[GHz] mW(TCB Exclusion List)  
so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

#### RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "UTX-B2(30)" as calculated from FCC OET Bulletin 65 Appendix A, Table (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 0.39mW/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

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

Where

P = 34.04 mW (Effective radiated power)  
G = 1.64 Numerical Antenna gain; equal 2.14 dBi  
r = 20.0 cm

For: UTX-B2(30)

$$S = 0.01108 \text{ mW/cm}^2$$

Approved by :

  
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