Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm^2 at a distance, d, of 23 cm from the EUT.

Therefore, for:

Highest Gain Dipole Antenna= 5 dBi

Peak Power (Watts) = 0.912 (from Table 9 of Test Report)
Gain of Transmit Antenna = 5 dB_i = 3.162, numeric (from Table 3 of Test Report)
d = Distance = 23 cm = 0.23 m

S = (PG/ $4\pi d^2$) = EIRP/4A = 0.912 (3.162)/4*π*0.23*0.23
= 2.884/0.665 = 4.337 W/m^2
= (W/m^2) (1m^2/W) (0.1 mW/cm^2)
= 0.4337 mW/cm^2

which is << less than 0.61 mW/cm^2

Highest Gain Yagi Antenna= 6 dBi

Peak Power (Watts) = 0.912 (from Table 9 of Test Report)
Gain of Transmit Antenna = 6 dB_i = 3.981, numeric (from Table 3 of Test Report)
d = Distance = 23 cm = 0.23 m

S = (PG/ $4\pi d^2$) = EIRP/4A = 0.912 (3.981)/4*π*0.23*0.23
= 3.6307/0.665 = 5.4597 w/m^2
= (W/m^2) (1m^2/W) (0.1 mW/cm^2)
= 0.5460 mW/cm^2

which is << less than 0.61 mW/cm^2