Distance =
$$10^{\Lambda}$$
 (Measured power - RSSI)

 $10 * N$

Measured power = RSSI (Measured power = RSSI)

 $-71.381 - (-81.0769)$
 -71.381

$$3 = 10$$

$$3 = 10$$

$$\log_{10}^{8} = \frac{-71.381 + 81.0769}{10 * N} = \frac{9.6959}{10 * N}$$

$$N = \frac{9.6959}{10 * \log^3} = \frac{9.6959}{10 * 0.4771} = 2.03225$$

$$N = 2.032$$

for Imeter with water:

$$d = 10^{10} \left(\frac{-71.381 - (-74.6552)}{10 * 2.032} \right) = 10^{10} \left(\frac{3.2742}{20.32} \right)$$

For I meter with wall:

ter with wall:

$$d = 10^{4} \left(\frac{-71.381 - (-84.7854)}{10 \times 2.032} \right) = 10^{4} \left(\frac{13.4044}{20.32} \right)$$

for 1 meter with 1 human:

$$d = 10^{\sqrt{\frac{-71.381 - (-74.4)}{10 \times 2.032}}} = 10^{\sqrt{\frac{3.019}{20.32}}}$$

d = 1.4079 meters

For 1 meter with 2 humans:

$$d = 10^{\Lambda} \left(\frac{-71.381 - (-77.9524)}{10 * 2.032} \right) = 10^{\Lambda} \left(\frac{6.5714}{20.32} \right)$$

d = 2.1056 meters

For 1 meter with 3 humans:

$$d = 10^{10} \left(\frac{-31.381 - (-38.4286)}{10 \times 2.032} \right) = 10^{10} \left(\frac{3.0436}{20.32} \right)$$

d = 2.2224 meters

For 3 meters with water:

$$d = 10^{10} \left(\frac{-31.381 - (-84.0435)}{10 \times 2.032} \right) = 10^{10} \left(\frac{12.6625}{20.32} \right)$$

for 3 meters with wall:

eters with wall.
$$d = 10^{5} \left(\frac{-31.381 - (-86.4615)}{10 \times 2.032} \right) = 10^{5} \left(\frac{15.0805}{20.32} \right)$$

for 3 meters with 1 human:

$$\frac{14.869}{d = 10^{4} \left(\frac{-31.381 - \left(-86.25\right)}{10 * 2.082}\right)} = 10^{4} \left(\frac{14.869}{20.32}\right)$$

For 3 meters with 2 humans

$$\frac{d}{d} = 10^{4} \left(\frac{-71.81 - \left(-87.5417\right)}{10 + 2.032} \right) = 10^{4} \left(\frac{15.7317}{20.32} \right)$$

For 3 meters with 3 humans

$$d = 10^{5} \left(\frac{-31.381 - (-88.1154)}{10 \times 2.032} \right)$$

$$= 10^{5} \left(\frac{16.3344}{20.32} \right)$$

d = 6.6610 meters