$$E_r = -\frac{Q}{r^2}k^2\left(\left(1 - \frac{3}{k^2r^2}\right)\cos\left(\omega t - kr\right) + \frac{3}{kr}\sin\left(\omega t - kr\right)\right)\left(3\cos^2\left(\theta\right) - 1\right) \tag{3}$$

$$E_\theta = -\frac{Qk^2}{r^2}\left(\left(3 - \frac{6}{k^2r^2}\right)\cos\left(\omega t - kr\right) - \left(kr - \frac{6}{kr}\right)\sin\left(\omega t - kr\right)\right)\sin\left(\theta\right)\cos\left(\theta\right) \tag{4}$$