Thomson's *e/m* experiment

Run #	Your measurements		units	Calculated quantities		units
Determine the radius of the track, R	x		metres	$R = \dfrac{x^2 + y^2}{2y}$		metres
	y		metres			
Determine the magnetic field, B	I		Amperes	$B = 4.23 \times 10^{-3} \ I$		Tesla
Determine the electric field, E	V		Volts	$E = \dfrac{V}{0.052}$		Volts/metre
Determine the electron's velocity, v				$v = \dfrac{E}{B}$		metres/s
Determine the electron's charge-to-mass ratio, e/m				$e/m = \dfrac{v}{BR}$		Coulombs/kg

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Determine the electron's charge-to-mass ratio, e/m				$e/m = \dfrac{v}{BR}$		Coulombs/kg