

3.3.2 Calcium (Ca)

Six calibration standards ranging in concentration from 78.13 ppb to 2500 ppb were used to build the calibration curve for the calcium analysis. The concentration of calcium in both organic and non-organic banana samples was ascertained using the intensity values acquired from the Atomic Emission Spectroscopy (AES) apparatus. Table 3.4.1 lists the calibration standards along with the intensity values that correspond to them and the Graph 3.4.2 provides a visual representation of the calcium concentration data.

Table 7: Calcium Standards and Intensity Values for Calibration Curve

Standards	Concentration (ppb)	Intensity
Blank	0	-0.06
Standard 1	78.13	34931.48
Standard 2	156.25	48206.21
Standard 3	312.5	73283.4
Standard 4	625	131248.52
Standard 5	1250	245550.58
Standard 6	2500	472149.23

Graph 3.2 Calibration Curve for Calcium Concentration Based on AES Intensity

