Table 1: Experimental Data

S. No.	Data collected from Colorimetric device		Data collected from smartphone device*					
	Conc. (ppm, X-axis)	Abs (Y- axis)	R	G	В	R/G	G/B	R/B
1.		0.328	156	113	117	1.38	0.97	1.55
2.	4	0.426	175	166	123	1.05	1.35	1.42
3.	V	0.594	145	176	118	0.82	1.49	1.22
4.	8	0.873	179	127	116	1.41	1.09	1.54
5.	Unknown	0.758	165	134	112	1.23	1.20	1.47

^{*}Corresponding ratio that is linearly increasing with analyte concentration is used for plotting Fig. 2.

Result:

- (i). Concentration of Ni in steel sample (using colorimetry) = 1.25 ppm (mg/L)
- (ii). Concentration of Ni in steel sample (using digital imaging) = 7.5 ppm (mg/L)



