Calibration Parameters of Heavy Metals (Arsenic, Cadmium, Copper, Lead, Zinc)

Method: As As HCL (Flame)
Cal. Set 4
Curve Fit = New Rational
Calibration Mode = Concentration
Characteristic Conc = 0.65 mg/L
r = 1.0000

$$Conc = \frac{A}{(0.00391 \times A \times A - 0.00048 \times A + 0.00684)}$$

CAL ZERO	0.00m	0.0009	0.14	-0.14
STANDARD 1	5.00m	0.0342	5.05	-0.05
STANDARD 2	10.00m	0.0682	10.07	-0.07
STANDARD 3	20.00m	0.1370	20.16	-0.16
Reslope	10.00m	0.0677	9.99	0.01

Method: Cd 1 (Flame)
Cal. Set 3
Curve Fit = New Rational
Calibration Mode = Concentration
Characteristic Conc = 0.013 mg/L
r = 0.9998

$$Conc = \frac{A}{(-7.23249 \times A \times A + 0.59079 \times A + 0.32155)}$$

CAL ZERO	0.000m	-0.0004	-0.001	0.001
STANDARD 1	0.100m	0.0324	0.096	0.004
STANDARD 2	0.200m	0.0677	0.203	-0.003
STANDARD 3	0.300m	0.0929	0.292	0.008
Reslope	0.200m	0.0685	0.206	-0.006

Method: Cu 1 (Flame)

Cal. Set 3
Curve Fit = New Rational
Calibration Mode = Concentration
Characteristic Conc = 0.030 mg/L
r = 1.0000

Conc = A

$$\frac{}{(-1.49781 \times A \times A + 0.08522 \times A + 0.14722)}$$

CAL ZERO	0.000m	-0.0009	-0.006	0.006
STANDARD 1	0.200m	0.0295	0.202	-0.002
STANDARD 2	0.300m	0.0447	0.306	-0.006
STANDARD 3	0.500m	0.0726	0.507	-0.007
Reslope	0.300m	0.0441	0.302	-0.002

Method: Pb 1 (Flame)
Cal. Set 3
Curve Fit = New Rational
Calibration Mode = Concentration
Characteristic Conc = 0.09 mg/L
r = 0.9999

Conc = A

$$\frac{}{(0.23585 \times A \times A - 0.02990 \times A + 0.04871)}$$

CAL ZERO	0.00m	0.0005	0.01	-0.01
STANDARD 1	0.50m	0.0243	0.50	0.00
STANDARD 2	1.00m	0.0475	0.99	0.01
STANDARD 3	2.00m	0.0961	2.00	0.00
Reslope	1.00m	0.0477	0.99	0.01

Method: Zn 1 (Flame)
Cal. Set 4
Curve Fit = New Rational
Calibration Mode = Concentration
Characteristic Conc = 0.007 mg/L
r = 0.9999

$$Conc = \frac{A}{(-0.19111 \times A \times A - 0.06766 \times A + 0.59780)}$$

CAL ZERO	0.000m	-0.0008	-0.001	0.001
STANDARD 1	0.100m	0.0594	0.102	-0.002
STANDARD 2	0.200m	0.1196	0.207	-0.007
STANDARD 3	0.300m	0.1723	0.302	-0.002
STANDARD 4	0.500m	0.2806	0.506	-0.006
STANDARD 5	1.000m	0.5135	1.019	-0.019
Reslope	0.500m	0.2762	0.498	0.002