



Color Standard Card

KEY

ppt - parts per thousand

ppm - parts per million

ppb - parts per billion

Summary of Minimum Detection Limits

To be read in conjunction with the Operating Manual and Instruction Cards

No Detect

Positive Detect

Negative

Uranium

Americium

Plutonium

Cobalt

Primary
Transition Metals



2.4 ppm

2.4 ppm

242 ppm

590 ppm

Cu - 635 ppb | Ni - 587 ppb
Zn - 654 ppb



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Detection by Concentration – Uranium (U)

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No Detect

Positive Detect



Negative



2.4 ppm

(1E-5M)
(6E-2 Bq/mL)



24 ppm

(1E-4M)
(6E-1 Bq/mL)



238 ppm

(1E-3M)
(6E+0 Bq/mL)



2.4 ppt

(1E-2M)
(6E+1 Bq/mL)



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Detection by Concentration – Americium (Am)

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No Detect

Positive Detect



Negative



2.4 ppm
(1E-5M)
(1.8E+4 Bq/mL)



24 ppm
(1E-4M)
(1.8E+5 Bq/mL)



243 ppm
(1E-3M)
(1.8E+6 Bq/mL)



2.4 ppt
(1E-2M)
(1.8E+7 Bq/mL)



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Detection by Concentration - Plutonium (Pu)

To be read in conjunction with the Operating Manual and Instruction Cards

No Detect

Positive Detect



Negative



242 ppm
(1E-3M)
(3.5E+4 Bq/mL)



2.4 ppt
(1E-2M)
(3.5E+5 Bq/mL)



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Detection by Concentration – Cobalt (Co)

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No Detect

Positive Detect



Negative



590 ppb

(1E-5M)
(2.5E+7 Bq/mL)



5.9 ppm

(1E-4M)
(2.5E+8 Bq/mL)



59 ppm

(1E-3M)
(2.5E+9 Bq/mL)



590 ppm

(1E-2M)
(2.5E+10 Bq/mL)



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Detection by Concentration:

Primary Transition Metals – Copper (Cu), Nickel (Ni) and Zinc (Zn)

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No Detect

Positive Detect



Negative



Cu - 635 ppb (1E-5) (635 ug/L)
Ni - 587 ppb (1E-5) (587 ug/L)
Zn - 654 ppb (1E-5) (654 ug/L)



Cu - 6.4 ppm (1E-4) (6.4 mg/L)
Ni - 5.9 ppm (1E-4) (5.9 mg/L)
Zn - 6.5 ppm (1E-4) (6.5 mg/L)



Cu - 63.5 ppm (1E-3) (63.5 mg/L)
Ni - 58.7 ppm (1E-3) (58.7 mg/L)
Zn - 65.4 ppm (1E-3) (65.4 mg/L)



Cu - 635 ppm (1E-2) (635 mg/L)
Ni - 587 ppm (1E-2) (587 mg/L)
Zn - 654 ppm (1E-2) (654 mg/L)



Color Standard Card

Key documentation

Scan for
Safety Data Sheet



Scan for
Operating Manual



Scan for
Instruction Cards

