Figure 2. Uranium-238 Decay Series

Uranium-238 (primordial)

uranium-238 measured by alpha spectroscopy

Terrestrial.

Present in sampled particulate matter.

Various decay products including uranium-234

uranium-234 measured by alpha spectroscopy

Terrestrial.

Present in sampled particulate matter.

Released to the atmosphere as a gas

Radon-222

3.8-day half-life

Short-lived decay products

Gas to particulate matter Not present by analysis time

Lead-210

measured by gamma spectroscopy

Bismuth-210

measured by gross beta activity

Polonium-210

measured by gross alpha activity

Lead-206

Present in sampled particulate matter. 22-year half-life
Not measured by gross beta analysis

Present in sampled particulate matter. Equilibrates with lead-210 in ~35 days 5-day half-life

Present in sampled particulate matter. Equilibrates in about 2.6 years 138-day half-life

Stable