

Paragon Analytics, Div. of DataChem Lab
 GammaScan

Geo 13 / Solid

Sample ID: 0404241-2 GS040427-2

Code: 040563D07A

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Sampling Start: 04/19/2004 12:00:00 | Counting Start: 04/29/2004 10:30:42
Sampling Stop: 04/19/2004 12:00:00 | Decay Time. . . . . 2.39e+002 Hrs
Buildup Time. . . . . 0.00e+000 Hrs | Live Time . . . . . 3600 Sec
Sample Size . . . . . 7.71e+002 g | Real Time . . . . . 3616 Sec
Collection Efficiency . . . . . 1.0000 | Spectrum File . . . . . 040563D07.SPC
Cr. Level Confidence Interval: 95 % | Det. Limit Confidence Interval: 95 %
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Detector #: 7 (Detector 7)

Efficiency File: (D07)(Sh13).EFF (Geo 13 Eff Cal)

Eff.=1/[4.38E-01*En^-1.50E+00 + 1.96E+02*En^8.85E-01] 12/09/2003

Library File: .FANP_NEW-HORIZ.LIB (NEW HORIZ._FANP+Ra-226)

MEASURED or MDA CONCENTRATIONS

Nuclide	ENERGY E (keV)	Concentration (pCi/g)	MDA	Critical Level	Halflife (hrs)	
Th-234	Average:x	1.16E+00 +- 4.01E-01	. . . . .	. . . . .	3.92E+13
	63.29	7.92E-01 +- 8.10E-01	1.33E+00	6.48E-01	3.92E+13	
	92.50	1.28E+00 +- 4.62E-01	7.13E-01	3.47E-01	3.92E+13	
Cd-109	88.04	3.45E+00 +- 8.05E-01	1.19E+00	5.81E-01	1.09E+04	
	Pb-212	Average:x	8.51E-01 +- 8.52E-02	1.67E+04
		115.18	2.53E+00 +- 2.64E+00	4.31E+00	2.07E+00	1.67E+04
238.63		8.45E-01 +- 8.60E-02	9.17E-02	4.40E-02	1.67E+04	
U-235	300.09	1.13E+00 +- 6.81E-01	1.06E+00	5.00E-01	1.67E+04	
	143.76 N	5.32E-02 +- 1.99E-01	3.35E-01	1.62E-01	6.17E+12	
	185.72	I.D.	. . . . .	. . . . .	6.17E+12
Ra-226	Average:x	1.75E+00 +- 8.82E-02	. . . . .	. . . . .	1.40E+07
	Pb-214	295.21	1.91E+00 +- 2.02E-01	2.03E-01	9.66E-02	1.40E+07
		351.92	1.85E+00 +- 1.41E-01	1.14E-01	5.40E-02	1.40E+07
	Bi-214	609.31	1.56E+00 +- 1.45E-01	1.14E-01	5.32E-02	1.40E+07
Ra-228		1120.29	1.75E+00 +- 4.18E-01	4.97E-01	2.30E-01	1.40E+07
	Average:x	8.29E-01 +- 1.36E-01	. . . . .	. . . . .	5.04E+04
	338.40	8.20E-01 +- 2.35E-01	3.19E-01	1.50E-01	5.04E+04	
	911.07	9.21E-01 +- 2.05E-01	2.33E-01	1.07E-01	5.04E+04	
Sb-125	968.90	6.64E-01 +- 2.84E-01	3.99E-01	1.84E-01	5.04E+04	
	Average:x	8.39E-02 +- 7.37E-02	. . . . .	. . . . .	2.43E+04
	463.51	5.22E-01 +- 3.02E-01	4.66E-01	2.20E-01	2.43E+04	
Tl-208	427.95 N	5.61E-02 +- 7.60E-02	1.26E-01	5.87E-02	2.43E+04	
	583.14	3.14E-01 +- 5.23E-02	5.47E-02	2.54E-02	1.27E+14	
Bi-212	727.17	1.01E+00 +- 5.39E-01	7.98E-01	3.69E-01	1.67E+04	
Co-56	1238.28	1.93E-01 +- 8.24E-02	1.13E-01	5.15E-02	1.86E+03	