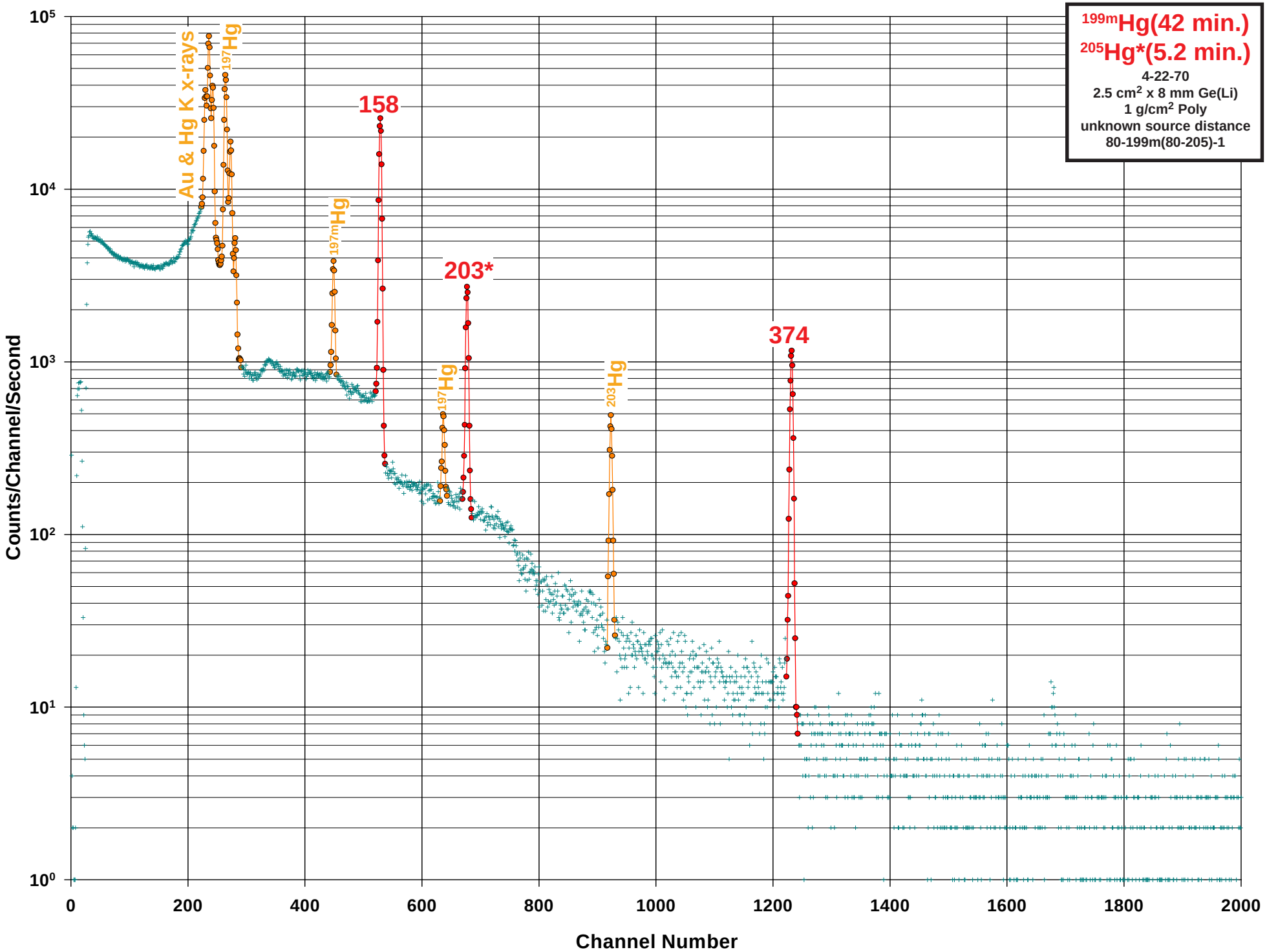
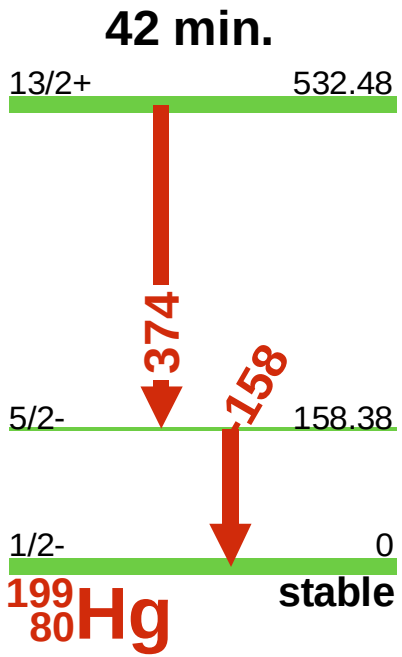
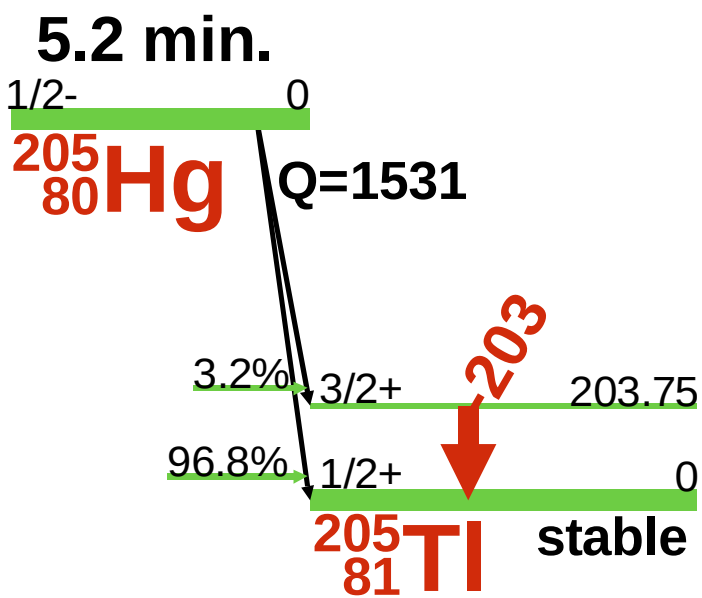

199mHg(42 min.)
205Hg*(5.2 min.)
4-22-70
2.5 cm2 x 8 mm Ge(Li)
1 g/cm2 Poly
unknown source distance
80-199m(80-205)-1
Au & Hg K x-rays
197Hg
197mHg
158
197Hg
203*
203Hg
374
Counts/Channel/Second
Channel Number
10⁵
10⁴
10³
10²
10¹
10⁰
0
200
400
600
800
1000
1200
1400
1600
1800
2000

^{199m}Hg(42 min.) Decay Scheme



^{205}Hg(5.2 min.) Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ^{199m}Hg - ^{205}Hg* Half Life: 42.6(2) min.- 5.2(1) min.*

Detector: 2.5 cm² x 8 mm Ge (Li) Method of Production: Hg(n,γ)

	E_γ (keV)	σ E_γ	I_γ (rel)	I_γ (%)	σ I_γ	S
	118.6					4
	158.30	0.10	100.	52.3	1.0	1
*	203.750	0.009	100.	2.2	1.0	1
	255.0					4
	374.10	0.10	35.2	13.8	1.1	1
	413.40	0.20		0.0272	0.0022	4
*	415.6	0.3		0.013	0.006	4
*	521.3			0.0007	0.0004	4
*	618.6	0.7		0.0020	0.0010	4
*	720.8	0.8		0.0011	0.0006	4
*	937.2	0.6		0.0020	0.0010	4
*	1014.7	0.8		0.0007	0.0004	4
*	1136.8	0.6		0.0046	0.0024	4
*	1141.1	1.5		0.0010	0.0006	4
*	1218.7	0.4		0.006	0.003	4
*	1230.8	1.0		0.0005	0.0003	4
*	1340.3	0.8		0.0003	0.0002	4
*	1433.9	0.5		0.0044	0.0023	4

E_γ, σE_γ, I_γ, σI_γ - 1998 ENSDF Data