

Table 2. Principal Gamma-Rays from Isotopes with Half-lives > 1.0 h

An energy-ordered list of principal γ rays from nuclei whose parent or grandparent half-life exceeds 1.0 h is given in Table 2. The table includes only the most intense γ rays (up to a maximum of four) from each parent. Intensities are absolute (γ 's per 100 parent decays) unless preceded by a †. E_γ for the strongest associated lines from each decay are listed in order of decreasing intensity.

Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
1.113		¹¹⁰ Ag(249.79 d) - 116.48	28.242 9	1.13 8	¹⁶⁶ Dy(81.6 h) - 82.471, 54.2400, 426.00
1.642 2		¹⁹³ Pt(4.33 d) - 135.50, 12.634	29.10 10	21.6 15	⁸⁶ Zr(16.5 h) - 242.80, 612.00, 135.6
2.1726 4		⁹⁹ Tc(6.01 h) - 140.511, 142.628	29.192 1	0.0120 3	²³³ U(1.592×10 ⁵ y) - 42.44, 97.134, 54.699
6.238 20	1.03 3	¹⁸¹ W(121.2 d) - 136.266, 152.315	29.374 20	15.0 10	²³⁷ Np(2.144×10 ⁶ y) - 86.477, 94.66, 143.249
6.29 8		¹²¹ Sn(55 y)	29.8 1	0.056 6	²²⁸ Pa(22 h) - 308.0, 43.3, 316.8
6.96 6		⁸⁵ Sr(67.63 m) - 151.159, 129.820, 731.812	29.9640 7	14.1 4	¹⁴⁰ Ba(12.752 d) - 537.261, 162.660, 304.849
7.133 10	4.95 15	¹⁶⁰ Er(28.58 h) - 59.98	30.332 8		¹⁰⁸ Ag(418 y) - 722.938, 433.937, 614.281
8.4 2		¹²⁹ Ba(2.16 h) - 182.32, 1459.1, 202.38	30.60 3	0.253 5	²⁰¹ Tl(72.912 h) - 167.43, 135.34, 32.19
8.41031 19	0.158 18	¹⁶⁹ Er(9.40 d) - 109.77987, 118.19018	30.6383 11	95 1	²⁸ Mg(20.91 h) - 1342.27, 941.72, 400.56
9.3 1		²²⁷ Ac(21.773 y) - 100, 69.21, 160.26	30.77 2		⁹³ Zr(1.53×10 ⁶ y)
9.396 7	4.90 15	⁸³ Kr(1.83 h) - 32.1473	30.77 2	0.0006	⁹³ Nb(16.13 y)
~10		¹⁶² Ho(67.0 m) - 185.005, 1220.0, 282.864	30.77 2		⁹³ Mo(4.0×10 ³ y)
10.6 5	0.8	¹³⁷ Ce(9.0 h) - 447.15, 436.59, 433.22	30.814 18	0.00031	¹⁸⁹ Os(5.8 h)
11.242 7	1.08 6	¹³⁴ Cs(2.903 h) - 127.5021, 138.733	30.84 5	~0.007	²⁵³ Es(20.47 d) - 41.79, 389.11, 387.1
12.327 6	1.53 9	¹³³ Ba(38.9 h) - 632.56	30.898 4	1.3 calc	¹⁹⁵ Ir(2.5 h) - 98.85, 211.407, 129.70
12.4	3.0×10 ⁻⁶	⁴⁵ Ca(162.61 d)	30.898 4	2.28 15	¹⁹⁵ Pt(4.02 d) - 98.85, 129.70, 129.5
12.598 15	0.29 3	¹⁵² Eu(96 m) - 89.8492, 18.265, 77.2583	30.898 4	0.75 3	¹⁹⁵ Au(186.09 d) - 98.85, 129.70, 211.407
12.634 8		¹⁹³ Pt(4.33 d) - 135.50, 1.642	31.61 5	1.8 4	¹⁹² Hg(4.85 h) - 274.8, 157.2, 306.5
12.75 5	0.30 6	²²⁸ Ra(5.75 y) - 13.52, 16.2, 15.5	31.89 10	0.058 13	¹³⁴ Ce(3.16 d) - 162.306, 130.414, 300.884
13.271 18	0.089 calc	⁷³ As(80.30 d) - 53.440	32.1473 16	0.0549 15	⁸³ Kr(1.83 h) - 9.396
13.52 2	1.6	²²⁸ Ra(5.75 y) - 16.2, 12.75, 15.5	32.19 3	0.258 5	²⁰¹ Tl(72.912 h) - 167.43, 135.34, 30.60
14.41300 15	9.16 15	⁵⁷ Co(271.79 d) - 122.0614, 136.4743, 692.03	32.70 2	3.87 10	¹⁰⁰ Pd(3.63 d) - 84.02, 74.78, 126.05
15.2 1		²²⁷ Ac(21.773 y) - 100, 69.21, 160.26	33.1964 3	0.0745 23	²³⁷ Pu(45.2 d) - 280.40, 298.89, 320.75
15.5 2	0.16 3	²²⁸ Ra(5.75 y) - 13.52, 16.2, 12.75	33.1964 3	0.126 3	²⁴¹ Am(432.2 y) - 59.5412, 26.3448, 43.423
16.2 1	0.72 8	²²⁸ Ra(5.75 y) - 13.52, 12.75, 15.5	33.568 10	0.200 22	¹⁴⁴ Ce(284.893 d) - 133.515, 80.120, 40.98
16.21 3	0.159 20	¹⁹⁵ Hg(41.6 h) - 261.75, 560.27, 387.87	33.7 3		¹⁹⁶ Tl(1.41 h) - 426.0, 635.5, 695.6
16.4 3	8.3 17	⁷² Zn(46.5 h) - 145.04, 191.96, 103.14	34.0		²⁵¹ Bk(55.6 m) - 177.7, 130.1, 152.8
18.265 7	1.26 21	¹⁵² Eu(96 m) - 89.8492, 77.2583, 12.598	34.0		²⁵¹ Es(33 h) - 177.7, 152.8, 163.8
18.5 5	27.2 6	¹¹² Pd(21.03 h)	35.4919 5	6.67 20	¹²⁵ Te(57.40 d) - 109.276, 144.780
19.394 2	13.7 7	¹⁷¹ Lu(8.24 d) - 739.78, 667.404, 75.878	35.4919 5	6.68 13	¹²⁵ I(59.408 d)
21.531 7	0.031	¹⁵¹ Sm(90 y)	35.7 3		²⁵⁵ Es(39.8 d) - 269.1, 233.6
21.531 7	2.85 12	¹⁵¹ Gd(124 d) - 153.56, 243.28, 174.70	36.202 16	0.67 6	¹⁸⁹ Ir(13.2 d) - 245.09, 69.537, 59.053
21.65 1	1.26 11	¹²⁶ Sn(1×10 ⁵ y) - 87.57, 64.28, 86.94	37.052 2	39.1 8	⁸⁰ Br(4.4205 h) - 48.786
~22		¹³² I(1.387 h) - 98.0	37.09 3	1.84 6	¹⁹⁵ Hg(41.6 h) - 261.75, 560.27, 387.87
22.510 8	>0.050	¹⁴⁹ Pm(53.08 h) - 285.95, 859.46, 590.88	37.138 10	1.9	¹²¹ Sn(55 y) - 6.29
22.510 8	2.32 6	¹⁴⁹ Eu(93.1 d) - 327.526, 277.089, 254.566	37.138 10	0.117 4	¹²¹ Te(16.78 d) - 573.139, 507.591, 470.472
23.001 17	0.15 3	²⁵⁵ Fm(20.07 h) - 81.477, 58.477, 80.92	37.138 10	0.94 10	¹²¹ Te(154 d) - 1102.149, 998.291, 909.847
23.1 1	0.037 6	¹⁹⁸ Tl(1.87 h) - 636.4, 411.80205, 587.2	37.9681 7	>2.9	¹⁵⁶ Sm(9.4 h) - 87.4897, 203.818, 165.8452
23.28 1	6.4 6	¹²⁶ Sn(1×10 ⁵ y) - 87.57, 64.28, 86.94	38.3 1	8	¹⁶² Ho(67.0 m) - 185.005, 1220.0, 282.864
23.870 8	16.1 5	¹¹⁹ Sn(293.1 d) - 25.271, 65.66	38.661 2	0.0105 2	²³⁹ Pu(24110 y) - 51.624, 129.297, 375.045
23.870 8	16.1 5	¹¹⁹ Sb(38.19 h)	38.720 17	0.023 4	¹⁰⁵ Rh(35.36 h) - 319.14, 306.25, 280.41
23.9331 2	20.3 11	¹⁷² Hf(1.87 y) - 125.812, 67.35, 81.7513	38.9 1	7.0×10 ⁻⁵	⁹⁵ Tc(61 d) - 204.117, 582.082, 835.149
24.46 1	3.90 15	¹⁰¹ Pd(8.47 h) - 296.29, 590.44, 269.67	38.9 1	0.076 3	¹⁹⁰ Ir(3.25 h) - 616.08, 502.53, 361.136
24.5 2		²²⁷ Ac(21.773 y) - 100, 69.21, 160.26	39.51 3	0.30 4	¹⁹³ Hg(11.8 h) - 257.97, 407.63, 573.25
24.889 21	0.0369 11	⁵⁸ Co(9.15 h)	39.578 4	7.51 23	¹²⁹ I(1.57×10 ⁷ y)
25.271 1	14.3 3	¹¹⁹ Sr(293.1 d) - 23.870, 65.66	39.578 4	7.5 2	¹²⁹ Xe(8.88 d) - 196.56
25.646 4	14.5 3	²³¹ Th(25.52 h) - 84.216, 89.944, 81.227	39.578 4	2.97 9	¹²⁹ Cs(32.06 h) - 371.918, 411.490, 548.945
25.646 4	12	²³¹ U(4.2 d) - 84.216, 217.940, 58.570	39.757 6	0.07	¹⁰³ Pd(16.991 d) - 357.47, 497.080, 294.978
25.646 4	0.00041 5	²³⁵ Np(396.1 d) - 84.216, 81.227, 58.570	39.75 10		¹⁵² Eu(96 m) - 89.8492, 18.265, 77.2583
25.65150 7	23.2 10	¹⁶¹ Tb(6.88 d) - 48.91562, 74.56711, 57.196	39.858 4	1.091 25	²¹² Bi(60.55 m) - 727.330, 1620.50, 785.37
25.65150 7	27 3	¹⁶¹ Ho(2.48 h) - 103.062, 77.414, 59.235	40.09 5	30	²²⁵ Ra(14.9 d)
26.3 1	0.00010	¹⁹⁰ Ir(1.2 h)	40.09 5	0.104 9	²²⁹ Pa(1.50 d) - 64.70, 75.12, 115.55
26.3 1		¹⁹⁰ Ir(3.25 h) - 148.7	40.3510 23	5.02 4	¹⁸⁶ Re(2.0×10 ⁵ y) - 59.010, 99.361, 87.264
26.3448 2	2.43 6	²³⁷ U(6.75 d) - 59.5412, 208.00, 164.61	40.8 1	30.0 20	¹¹⁸ Sb(5.00 h) - 1229.68, 253.678, 1050.65
26.3448 2	0.221 7	²³⁷ Pu(45.2 d) - 59.5412, 33.1964, 43.423	40.84 3	25.5 13	⁶² Zn(9.186 h) - 596.56, 548.35, 507.60
26.3448 2	2.40 2	²⁴¹ Am(432.2 y) - 59.5412, 33.1964, 43.423	40.928 4	1.147 15	¹⁶⁴ Yb(75.8 m) - 675.41, 390.6, 446.74
26.4 1		²²⁸ Ra(5.75 y) - 13.52, 16.2, 12.75	40.98 10	0.257 16	¹⁴⁴ Ce(284.893 d) - 133.515, 80.120, 33.568
26.533 6	0.316 12	¹⁵⁵ Eu(4.7611 y) - 86.545, 105.305, 45.2972	41		²³⁹ Cm(2.9 h) - 187.1, 146.4
26.55 5	0.54 3	²³¹ Th(25.52 h) - 25.646, 84.216, 89.944	41	0.006	²⁴³ Bk(4.5 h) - 187.1, 536, 146.4
27.36 1	10.3 4	²³¹ Pa(32760 y) - 300.07, 302.65, 283.69	41.4 2	9.2 9	¹⁸⁴ Hf(4.12 h) - 139.1, 344.9, 181.0
27.58 2	3.5 4	²⁴⁶ Pu(10.84 d) - 43.81, 223.75, 179.94	41.53 6		²⁴⁸ Bk(23.7 h) - 592.2, 550.7, 43.38
27.81 5	16.3 16	¹²⁹ Te(69.6 m) - 459.60, 487.39, 278.43	41.53 6	0.011	²⁵² Fm(25.39 h) - 96.28

8th Edition of the Table of Isotopes: 1998 Update - Energy-Ordered Decay Gamma-Ray Table

Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
255.57 4	6.7 6	¹⁹³ Au(17.65 h) - 186.17, 268.22, 173.52	274.8 3	50.4 20	¹⁹² Hg(4.85 h) - 157.2, 306.5, 186.4
255.87 8	71 5	²⁰⁰ Au(18.7 h) - 332.82, 146.07, 59.97	275.21 2	6.8 5	¹⁵¹ Pm(28.40 h) - 340.08, 167.75, 717.72
256.25 2	7.0 4	²²⁷ Th(18.72 d) - 235.971, 50.13, 329.851	275.904 22	0.54 3	¹⁸⁹ Ir(13.2 d) - 245.09, 69.537, 59.053
256.84 4	†2.9 3	²²⁴ Rn(107 m) - 260.581, 265.806, 202.21	275.925 7	17.8 3	¹³³ Ba(38.9 h) - 632.56
256.93 13	98	¹⁵² Dy(2.38 h)	275.988 12	0.30	⁸¹ Kr(2.29×10 ⁵ y)
257.17 2	4.46 13	²⁰⁰ Pb(21.5 h) - 147.63, 235.63, 268.38	276.0 2	2.92 16	⁷⁷ Kr(74.4 m) - 129.64, 146.59, 312.0
257.34 4	78 3	⁹⁰ Mo(5.67 h) - 122.370, 203.13, 323.20	276.398 2	7.164 22	¹³³ Ba(10.51 y) - 356.017, 80.9971, 302.853
257.6 1	7.6 4	¹²⁶ Ba(100 m) - 233.6, 241.0, 681.8	276.7 6	3.0×10 ²	¹⁸⁶ Pt(2.0 h) - 611.5, 635.6, 366.7
257.97 5	61 6	¹⁹³ Hg(11.8 h) - 407.63, 573.25, 932.37	276.8 1	†20.2 19	²⁵⁸ Md(51.5 d) - 367.8, 447.9, 71.1
258.8 1	1.64 3	¹¹³ Ag(5.37 h) - 298.58, 316.3, 672.3	277.089 10	3.56 6	¹⁴⁹ Eu(93.1 d) - 327.526, 22.510, 254.566
259.5 1	2.9 5	¹⁹⁸ Tl(1.87 h) - 636.4, 411.80205, 587.2	277.3 3	96	⁷⁸ Ge(88.0 m) - 293.9
259.5 1	5.8 7	¹⁹⁸ Pb(2.40 h) - 290.3, 365.4, 173.4	277.351 10	6.31 9	²⁰⁸ Tl(3.053 m) - 2614.533, 583.191, 510.77
260.48 3	0.7	²⁰⁹ Po(102 y) - 262.81	277.599 1	14.38 21	²³⁹ Np(2.3565 d) - 106.125, 228.183, 209.753
260.581 17	†21.5 10	²²⁴ Rn(107 m) - 265.806, 202.21, 328.331	277.599 1	15.0 7	²³⁹ Am(11.9 h) - 49.10, 228.183, 226.378
260.890 30	1.94 1	¹¹⁵ Cd(53.46 h) - 336.240, 527.900, 492.3	277.599 1	14.0 4	²⁴³ Cm(29.1 y) - 228.183, 209.753, 285.460
260.9 3	1.29 22	¹⁹⁸ Tl(1.87 h) - 636.4, 411.80205, 587.2	277.88 2	7.2 5	¹⁹¹ Au(3.18 h) - 586.45, 674.19, 283.91
261.3 2	0.173 14	²²⁴ Ac(2.78 h) - 156.82, 140.7, 144.44	278.0 8	3.4 7	²⁴⁷ Cm(1.56×10 ⁷ y) - 402.6, 287.4, 344.5
261.35 7	13	⁷⁹ Kr(35.04 h) - 397.54, 606.09, 306.47	278.43 5	0.567 17	¹²⁹ Te(69.6 m) - 27.81, 459.60, 487.39
261.75 4	30.9 25	¹⁹⁵ Hg(41.6 h) - 560.27, 387.87, 200.38	278.835 17	1.60 5	¹³³ La(3.912 h) - 302.353, 290.06, 632.765
261.92 5	†39 5	²²⁸ Ac(62.7 m) - 164.522, 569.1, 146.345	279.01 5	2.4	¹⁹⁷ Pt(95.41 m) - 346.5, 53.10
262.27 5	0.0050 5	²²⁶ Ra(1600 y) - 186.211, 600.66, 414.60	279.01 5	6	¹⁹⁷ Hg(23.8 h) - 130.2, 201.6, 77.351
262.322 2	5.29 5	¹⁵⁵ Tb(5.32 d) - 86.545, 105.305, 180.103	279.19 5	3.7 3	¹⁹⁵ Tl(1.16 h) - 563.52, 884.47, 1363.88
262.81 3	0.225 11	²⁰⁹ Po(102 y) - 260.48	279.1967 12	81	²⁰³ Hg(46.612 d)
262.83 10	6.57 14	¹⁰⁵ Ru(4.44 h) - 724.21, 469.37, 676.36	279.1967 12	81	²⁰³ Pb(51.873 h) - 401.323, 680.516
263.062 5	56.7 14	⁹³ Mo(6.85 h) - 949.82, 689.07, 541.22	279.5441 13	24.79 11	⁷⁵ Se(119.779 d) - 264.6584, 136.0008, 121.1166
263.285 10	6.71 21	¹⁸² Os(22.10 h) - 510.056, 180.230, 55.506	279.763 12	0.498 25	¹⁶⁵ Dy(2.334 h) - 94.700, 361.68, 633.415
263.7 3	0.0230 7	¹¹³ Cd(14.1 y)	280.23 2	47.3 20	²³⁷ Am(73.0 m) - 438.4, 473.5, 908.8
263.97 7	†1000	¹⁸⁴ Ir(3.09 h) - 119.80, 390.38, 961.22	280.40 20	0.000916 18	²³⁷ Pu(45.2 d) - 298.89, 320.75, 228.56
264 2	0.05 1	²⁵⁴ Es(275.7 d) - 63.0, 316, 304	280.41 6	0.167 13	¹⁰⁵ Rh(35.36 h) - 319.14, 306.25, 442.37
264.44 3	54	⁷⁷ Ge(11.30 h) - 211.03, 215.50, 416.33	280.41 6	30.2 17	¹⁰⁵ Ag(41.29 d) - 344.520, 644.55, 443.37
264.6584 19	11	⁷⁵ Ge(82.78 m) - 198.6031, 468.8, 419.1	280.459 8	29.77 22	¹⁶⁶ Ho(1.20×10 ³ y) - 184.410, 810.276, 711.683
264.6584 19	58.50 23	⁷⁵ Se(119.779 d) - 136.0008, 279.5441, 121.1166	280.462 9		¹¹⁰ Sn(4.11 h)
264.9	>0.07	¹⁶⁷ Tm(9.25 d) - 207.801, 57.0723, 531.54	282.522 14	3.01 5	¹⁷⁵ Yb(4.185 d) - 396.329, 113.805, 144.863
265 10	-30	²⁴⁷ Bk(1380 y) - 84.0	282.8 2	28 3	¹⁹⁸ Tl(1.87 h) - 636.4, 411.80205, 587.2
265.34 21	0.19 5	¹⁵⁷ Dy(8.14 h) - 326.16, 182.20, 83.01	282.864 8	11.3 4	¹⁶² Ho(67.0 m) - 185.005, 1220.0, 937.2
265.56 2	41.8 13	¹³⁵ Ce(17.7 h) - 300.07, 606.76, 518.05	282.956 2	12.2 3	⁶¹ Cu(3.333 h) - 656.008, 67.412, 1185.234
265.806 17	†20.1 10	²²⁴ Rn(107 m) - 260.581, 202.21, 328.331	283.69 1	1.7	²³¹ Pa(32760 y) - 27.36, 300.07, 302.65
265.832 5		²¹⁰ Bi(5.013 d) - 304.896	283.91 2	6.7 4	¹⁹¹ Au(3.18 h) - 586.45, 277.88, 674.19
265.832 5	50	²¹⁰ Bi(3.04×10 ⁶ y) - 304.896, 649.42, 344.52	284.09 3	2.21 11	¹⁹⁹ Tl(7.42 h) - 455.46, 208.20597, 247.26
266.0	0.0141 24	²³⁹ Pa(17.4 d) - 951.95, 918.48, 454.95	284.305 5	6.14 5	¹³¹ I(8.02070 d) - 364.489, 636.989, 80.185
266.0 3	0.5 2	²⁵¹ Cf(898 y) - 176.6, 227.0, 285.0	285.0 2	23	²⁴⁷ Am(23.0 m) - 227.0
266.62 2	0.69 3	²⁴⁸ Cf(351 y) - 388.16, 333.37, 252.80	285.0 2	1.4 3	²⁵¹ Cf(898 y) - 176.6, 227.0, 61.5
266.86 4	13.3 4	¹⁰³ Ag(65.7 m) - 118.72, 148.193, 1273.83	285.460 2	0.728 20	²⁴³ Cm(29.1 y) - 277.599, 228.183, 209.753
266.9 1	7.3 4	⁹³ Y(10.18 h) - 947.1, 1917.8, 680.2	285.49 7	4.3 4	¹⁹⁶ Au(9.6 h) - 147.81, 188.27, 168.37
266.9 4	10.8 13	¹⁷⁵ Ta(10.5 h) - 207.4, 348.5, 81.5	285.95 1	3.1	¹⁴⁹ Pm(53.08 h) - 859.46, 590.88, 22.510
268.218 20	15.6 4	¹³⁵ Ba(28.7 h)	286.410 26	23.8 5	²⁰⁶ Po(8.8 d) - 1032.26, 511.36, 807.38
268.22 5	3.9 3	¹⁹³ Au(17.65 h) - 186.17, 255.57, 173.52	286.572 5	88	⁷⁵ Br(96.7 m) - 141.3147, 142.7883, 377.385
268.38 2	3.96 17	²⁰⁰ Pb(21.5 h) - 147.63, 257.17, 235.63	287.16 5	3.82 4	¹²⁷ Cs(6.6 h) - 411.95, 124.70, 462.31
268.78 5	0.231 22	¹⁹⁷ Pt(19.8915 h) - 77.351, 191.437	287.357 10	28.3 9	¹⁵¹ Tb(17.609 h) - 251.863, 108.088, 587.46
268.78 5	0.0393 19	¹⁹⁷ Hg(64.14 h) - 77.351, 191.437	287.4 3	2.0 3	²⁴⁷ Cm(1.56×10 ⁷ y) - 402.6, 278.0, 344.5
~269.1		²⁵⁵ Es(39.8 d) - 233.6, 35.7	288	6.0×10 ⁻⁵ 4	¹³³ Ba(38.9 h) - 632.56
269.459 10	13.7 3	²²³ Ra(11.435 d) - 154.21, 323.871, 144.232	288.07 7	0.31 4	²¹² Bi(60.55 m) - 727.330, 1620.50, 785.37
269.50 2	36.5 8	⁵⁶ Ni(6.077 d) - 158.38, 811.85, 749.95	289.25 4	0.198 20	²⁰⁴ Pb(67.2 m) - 899.15, 911.78, 374.72
269.67 7	6.43 12	¹⁰¹ Pd(8.47 h) - 296.29, 590.44, 24.46	290.06 5	0.904 8	¹³³ La(3.912 h) - 278.835, 302.353, 632.765
270.068 11	27.8 9	²⁰⁴ Po(3.53 h) - 883.984, 1016.31, 534.90	290.27 17	0.00014 5	¹⁵⁹ Dy(144.4 d) - 58.00, 348.16, 79.45
270.166 7	10.7 3	¹⁴⁹ Nd(1.728 h) - 211.309, 114.314, 654.831	290.3 1	36 5	¹⁹⁸ Pb(2.40 h) - 365.4, 173.4, 865.3
270.2 2	21.1 23	⁷⁶ Kr(14.8 h) - 315.7, 45.48, 406.5	290.669 13	0.402 12	¹⁸⁸ W(69.4 d) - 227.083, 63.582, 207.849
270.245 2	0.00316 5	²³² U(68.9 y) - 57.766, 129.065, 328.000	291.0 8	2.7 10	¹⁵⁶ Sm(9.4 h) - 87.4897, 203.818, 165.8452
270.4031 20	80 5	¹⁸² Hf(9×10 ⁶ y) - 156.088, 114.3152, 172.5708	291.7 1	0.0011	²⁰⁸ Po(2.898 y) - 570.4, 601.6, 861.9
270.53 4	28.0 4	¹¹⁹ Te(4.70 d) - 153.59, 1212.73, 1136.75	291.7238 5	3.05 16	¹⁸³ Re(70.0 d) - 162.3219, 46.4839, 208.8057
271.13	86.7 3	⁴⁴ Sc(58.6 h) - 1001.85, 1126.08, 1157.031	292.70 10	0.0062 7	²²⁴ Ra(3.66 d) - 240.986, 645.50, 422.04
271.131 8	0.074 3	¹⁵² Eu(9.3116 h) - 841.570, 963.390, 121.7817	292.80 3		²¹⁰ At(8.1 h) - 82.802, 106, 167
271.131 8	8.6 6	¹⁵² Tb(17.5 h) - 344.2785, 586.2648, 778.9040	293.266 2	42.80 13	¹⁴³ Ce(33.039 h) - 57.356, 664.571, 721.929
271.23 1	10.8 3	²¹⁸ Rn(3.96 s) - 401.81, 130.59, 293.54	293.545 13	2.52 9	¹⁹⁴ Ir(19.28 h) - 328.455, 645.157, 1150.76
271.8 4	2.6	²⁵³ Fm(3.00 d) - 144.99, 62.47, 405	293.545 13	10.4 6	¹⁹⁴ Au(38.02 h) - 328.455, 1468.91, 2043.67
272.105 15	21.2 3	¹⁷³ Lu(1.37 y) - 78.63, 100.724, 171.393	293.54 4	0.073 4	²¹⁹ Rn(3.96 s) - 271.23, 401.81, 130.59
272.918 6	0.550 17	¹⁷⁴ Lu(142 d) - 992.128, 176.645, 76.471	293.9 5	4.0 8	⁷⁸ Ge(88.0 m) - 277.3
272.97 4	10.4 4	⁶⁶ Ge(2.26 h) - 43.89, 381.85, 108.85	294.1 1	0.98 7	²⁴⁷ Cf(3.11 h) - 447.8, 417.9, 407.0
273.349 18	28	¹¹⁷ Cd(2.49 h) - 1303.27, 344.459, 1576.62	294.264 15	0.054 4	¹³⁴ Ce(3.16 d) - 162.306, 130.414, 300.884
273.44 1	15	¹²⁸ Ba(2.43 d) - 374.99, 229.50, 359.10	294.978 20	0.00280 7	¹⁰³ Pd(16.991 d) - 39.757, 357.47, 497.080
273.646 8	11.1 4	¹³⁶ Cs(13.16 d) - 818.514, 1048.073, 340.547	295.0 3	0.73 22	¹⁰¹ Rh(3.3 y) - 127.23, 197.6, 324.8
274.6 6	2.3	¹⁹⁶ Tl(1.41 h) - 426.0, 635.5, 695.6	295.59 6	†137 30	¹⁷¹ Hf(12.1 h) - 122.0, 662.2, 347.18

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Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
295.72 2	0.22 7	²⁴⁵ Am(2.05 h) - 252.80, 240.86, 42.88	316.44 15	11.1 4	¹⁰⁵ Ru(4.44 h) - 724.21, 469.37, 676.36
295.901 13	28.9 8	¹⁷¹ Er(7.516 h) - 308.31, 111.621, 124.015	316.50791 13	82.81 21	¹⁹² Ir(73.831 d) - 205.79549, 484.5780, 374.4852
295.95827 12	28.67 9	¹⁹² Ir(73.831 d) - 205.79549, 484.5780, 374.4852	316.50791 13	58.0 8	¹⁹² Au(4.94 h) - 295.95827, 2236.89, 612.46564
295.95827 12	22.3 3	¹⁹² Au(4.94 h) - 316.50791, 2236.89, 612.46564	316.8 1	0.044 6	²²⁸ Pa(22 h) - 308.0, 29.8, 43.3
296.29 3	19	¹⁰¹ Pd(8.47 h) - 590.44, 269.67, 24.46	317.16 1	0.00776 7	²³³ U(1.592×10 ⁵ y) - 42.44, 97.134, 54.699
296.7 2	†5.4 9	²⁵⁸ Md(51.5 d) - 367.8, 447.9, 276.8	318.012 6	22.8 6	¹⁸⁴ Ta(8.7 h) - 414.03, 252.848, 920.932
296.911 14	4.9×10 ⁻⁵ 16	¹⁸⁶ Re(90.64 h) - 122.58	318.180 2	2.45 3	¹²⁹ Cs(32.06 h) - 371.918, 411.490, 548.945
296.911 14	64.0 15	¹⁸⁶ Ir(16.64 h) - 137.155, 434.849, 773.276	318.71 3	1.55 11	⁶⁹ Ge(39.05 h) - 1107.01, 574.17, 872.14
296.974 9	33.9 7	¹⁷³ Hf(23.6 h) - 123.672, 139.634, 311.239	319.0205 8	10.5 3	¹⁷⁷ Lu(160.4 d) - 413.6636, 121.6211, 171.8576
297.215 4	4.16 18	⁷⁷ Br(57.036 h) - 238.996, 520.639, 249.786	319.14 6	19	¹⁰⁵ Rh(35.36 h) - 306.25, 280.41, 442.37
297.32 5	79.8 16	⁷³ Ga(4.86 h) - 325.70, 739.42, 767.8	319.411 18	1.95 11	¹⁴⁷ Nd(10.98 h) - 91.105, 531.016, 439.895
297.369 6	12.71 25	¹⁶⁵ Tm(30.06 h) - 242.917, 47.155, 806.372	319.90 4	0.94 4	¹²¹ I(2.12 h) - 212.189, 532.08, 598.74
297.88 10	0.012	¹⁶³ Er(75.0 m) - 1113.5, 436.1, 439.94	319.90 7	9.4 5	¹⁹⁵ Ir(3.8 h) - 100
298.58 2	10	¹¹³ Ag(5.37 h) - 258.8, 316.3, 672.3	320.0842 9	10	⁵¹ Cr(27.702 d)
298.580 2	26.13 18	¹⁶⁰ Tb(72.3 d) - 879.383, 966.171, 1177.962	320.75 20	0.000546 16	²³⁷ Pu(45.2 d) - 280.40, 298.89, 228.56
298.634 5	28.6 7	¹⁴⁸ Gd(9.28 d) - 149.735, 346.651, 748.601	321.3162 16	0.219 11	¹⁷⁷ Lu(6.734 d) - 208.3664, 112.9498, 249.6741
298.89 20	0.44 5	²³³ Np(36.2 m) - 312.17, 546.9, 506.5	321.336 24	23.5 8	¹⁶⁷ Ho(3.1 h) - 346.547, 237.873, 207.801
298.89 20	0.000661 16	²³⁷ Pu(45.2 d) - 280.40, 320.75, 228.56	321.64 4	1.28 6	¹⁹³ Os(30.5 h) - 139.03, 460.50, 73.039
300.00 3	2.32 17	²²⁷ Th(18.72 d) - 235.971, 50.13, 256.25	322.41 8	9.7×10 ⁻⁵ 5	⁹⁹ Tc(6.01 h) - 140.511, 142.628, 2.1726
300.07 2	23.5 3	¹³⁵ Ce(17.7 h) - 265.56, 606.76, 518.05	322.41 8	6.2 3	⁹⁹ Rh(16.1 d) - 528.24, 353.05, 89.65
300.07 1	2.46 7	²³¹ Pa(32760 y) - 27.36, 302.65, 283.69	323.20 18	6.3 5	⁹⁰ Mo(5.67 h) - 257.34, 122.370, 203.13
300.087 10	3.28 3	²¹² Pb(10.64 h) - 238.632, 115.183, 415.2	323.871 10	3.93 7	²²³ Ra(11.435 d) - 269.459, 154.21, 144.232
300.219 10	0.797 11	⁶⁷ Cu(61.83 h) - 184.577, 93.311, 91.266	324.48 3	10.79 17	⁹⁷ Ru(2.9 d) - 215.718, 569.31, 460.57
300.219 10	16.80 22	⁶⁷ Ga(3.2612 d) - 93.311, 184.577, 393.529	324.8 2	13.4 11	¹⁰¹ Rh(3.3 y) - 127.23, 197.6, 295.0
300.34 2	6.62 6	²³³ Pa(26.967 d) - 312.17, 340.81, 86.814	325.41 15	0.0314 15	¹⁰⁷ Cd(6.50 h) - 93.124, 828.93, 796.462
300.654 12	12.8 6	²⁰⁷ At(1.80 h) - 814.41, 588.33, 467.12	325.1 2	2.5 3	²⁵⁷ Md(5.52 h) - 371.4, 181.3, 388.5
300.884 15	0.088 7	¹³⁴ Ce(3.16 d) - 162.306, 130.414, 31.89	325.562 4	94.1 11	¹⁷⁸ Hf(31 y) - 426.383, 574.215, 213.440
302.353 8	1.05 3	¹³³ La(3.912 h) - 278.835, 290.06, 632.765	325.562 4	94.1 11	¹⁷⁸ Ta(2.36 h) - 426.383, 213.440, 88.867
302.65 1	2.2 3	²³¹ Pa(32760 y) - 27.36, 300.07, 283.69	325.70 7	11.17 24	⁷³ Ga(4.86 h) - 297.32, 739.42, 767.8
302.7 1	80 5	¹³⁸ Pr(2.12 h) - 1037.8, 788.742, 390.9	325.76 5	2.93 7	¹³⁸ Nd(5.04 h) - 199.50, 341.65, 215.31
302.853 1	0.0048 3	¹³³ Xe(5.243 d) - 80.9971, 79.6139, 160.613	326.16 20	92	¹⁵⁷ Dy(8.14 h) - 182.20, 83.01, 60.82
302.853 1	18.33 6	¹³³ Ba(10.51 y) - 356.017, 80.9971, 383.851	326.349 4	0.050 11	¹⁹⁶ Au(6.183 d) - 355.684, 332.983, 1091.331
303.41 3	21.6 11	²⁵⁵ Es(8.6 h) - 828.82, 349.4, 383.7	326.785 15	3.034 25	⁷¹ As(65.28 h) - 174.954, 1095.490, 499.876
304 2	0.07 1	²⁵⁴ Es(275.7 d) - 63.0, 316, 385	327.428 8	25.4 25	²⁴⁵ Pu(10.5 h) - 560.13, 308.222, 376.676
304.71 8	4.3 4	¹⁸⁷ Pt(2.35 h) - 106.46, 201.52, 110.04	327.428 8	1.7×10 ⁻⁵ 3	²⁴⁹ Bk(320 d) - 308.222
304.849 3	4.29 5	¹⁴⁹ Ba(12.752 d) - 537.261, 29.9640, 162.660	327.526 10	4.03 12	¹⁴⁹ Eu(93.1 d) - 277.089, 22.510, 254.566
304.87 2	14	⁸⁵ Kr(4.480 h)	327.96 10	0.139 11	²¹² Bi(60.55 m) - 727.330, 1620.50, 785.37
304.896 6	31	²⁰⁶ Hg(8.15 m) - 649.42, 344.52	328.000 6	0.00283 6	²³² U(68.9 y) - 57.766, 129.065, 270.245
304.896 6	28	²¹⁰ Bi(5.013 d) - 265.832	328.331 21	†3.7 3	²²⁴ Rn(107 m) - 260.581, 265.806, 202.21
304.896 6	28	²¹⁰ Bi(3.04×10 ⁶ y) - 265.832, 649.42, 344.52	328.455 11	93 5	¹⁹⁴ Ir(171 d) - 482.833, 600.5, 687.7
306.25 3	5.1 3	¹⁰⁵ Rh(35.36 h) - 319.14, 280.41, 442.37	328.455 11	13.1 4	¹⁹⁴ Ir(19.28 h) - 293.545, 645.157, 1150.76
306.47 10	2.6 1	⁷⁹ Kr(35.04 h) - 261.35, 397.54, 606.09	328.455 11	61 3	¹⁹⁴ Au(38.02 h) - 293.545, 1468.91, 2043.67
306.5 3	5.4 6	¹⁹² Hg(4.85 h) - 274.8, 157.2, 186.4	328.762 8	20.3 3	¹⁴⁰ La(1.6781 d) - 1596.210, 487.021, 815.772
306.78 4	94	¹⁷⁶ Lu(3.78×10 ¹⁰ y) - 201.83, 88.34, 400.99	329.64 4	2.32 15	¹³² Ce(3.51 h) - 182.11, 155.37, 216.83
306.85 5	87 4	¹⁰¹ Rh(4.34 d) - 545.06, 127.23, 179.62	329.851 20	2.7 3	²²⁷ Th(18.72 d) - 235.971, 50.13, 256.25
306.9 2	0.150 15	¹⁴¹ Pr(3.39 m) - 1596.210, 751.637, 925.189	330.06 1	1.396 20	²³¹ Pa(32760 y) - 27.36, 300.07, 302.65
307.51 8	1.035 25	¹⁵¹ Gd(124 d) - 153.56, 243.28, 174.70	330.13 6	0.6	²¹⁰ Bi(3.04×10 ⁶ y) - 265.832, 304.896, 649.42
308.0 1	0.080 8	²²⁸ Pa(22 h) - 29.8, 43.3, 316.8	330.2 2	8.6 5	¹²³ Xe(2.08 h) - 148.9, 178.1, 1093.4
308.222 8	4.9 5	²⁴⁵ Pu(10.5 h) - 327.428, 560.13, 376.676	331.19 3	79 5	²⁰¹ Pb(9.33 h) - 361.27, 945.96, 907.56
308.222 8	3.2×10 ⁻⁶ 9	²⁴⁹ Bk(320 d) - 327.428	331.613 9	31.19 19	¹⁷⁸ Ta(2.36 h) - 426.383, 325.562, 213.440
308.25 5	100	⁴⁸ Cr(21.56 h) - 112.36, 420.5	332.277 10	94.1 8	¹⁸⁰ Hf(5.5 h) - 443.09, 215.256, 57.555
308.31 3	64.4 16	¹⁷¹ Er(7.516 h) - 295.901, 111.621, 124.015	332.370 4	4.9×10 ⁻⁵ 3	²³² U(68.9 y) - 57.766, 129.065, 270.245
308.45692 13	30.00 8	¹⁹² Ir(73.831 d) - 205.79549, 484.5780, 374.4852	332.82 40	12.1 23	²⁰⁰ Au(18.7 h) - 146.07, 59.97, 133.23
308.45692 13	3.45 6	¹⁹² Au(4.94 h) - 316.50791, 295.95827, 2236.89	332.983 24	22.9 5	¹⁹⁶ Au(6.183 d) - 355.684, 1091.331, 326.349
310.0 8	0.64 13	¹³² I(1.387 h) - 98.0, 22	333.37 2	14.6 4	²⁴⁹ Cf(351 y) - 388.16, 252.80, 266.62
311.239 8	10.75 20	¹⁷³ Hf(23.6 h) - 123.672, 296.974, 139.634	333.4 4	5.8×10 ⁻⁵ 16	¹⁸⁶ Re(90.64 h) - 122.58
311.4 1	0.032 3	¹⁰⁹ Pd(13.7012 h) - 88.04, 647.3, 781.4	333.971 12	68	¹⁵⁰ Pm(2.68 h) - 1324.51, 1165.74, 831.92
312.0 2	3.7 5	⁷⁷ Kr(74.4 m) - 129.64, 146.59, 276.0	333.971 12	4.0 3	¹⁵⁰ Eu(12.8 h) - 406.52, 1165.74, 921.2
312.17 2	38.6 4	²³³ Pa(26.967 d) - 300.34, 340.81, 86.814	333.971 12	96	¹⁵⁰ Eu(36.9 y) - 439.401, 584.274, 737.455
312.17 2	0.7	²³³ Np(36.2 m) - 298.89, 546.9, 506.5	334.309 2	2.07 3	²³⁹ Np(2.3565 d) - 106.125, 277.599, 228.183
312.6	0.336 20	⁴² K(12.360 h) - 1524.70, 899.43, 1922.18	334.8 2	0.27 1	⁵⁹ Fe(44.503 d) - 1099.251, 1291.596, 192.349
313.34 20	0.000255 13	²³⁷ Pu(45.2 d) - 280.40, 298.89, 320.75	336.240 12	45.9 1	¹¹⁵ Cd(53.46 h) - 527.900, 492.3, 260.890
314.12 2	61 3	¹²⁸ Sb(9.01 h) - 753.82, 743.22, 526.57	336.240 12	45.83 10	¹¹⁵ In(4.486 h)
314.3 3	0.000423 10	¹¹⁷ Sn(13.60 d) - 158.562, 156.02	336.43 3	70.2 5	⁹⁵ Ru(1.643 h) - 1096.76, 626.77, 1178.66
314.337 71	2.43 24	⁹⁶ Tc(4.28 d) - 778.224, 849.929, 812.581	337.713 5	0.181 19	¹⁷⁹ Lu(4.59 h) - 214.335, 214.930, 123.3790
314.77 4	2.49 10	¹⁶¹ Er(3.21 h) - 826.6, 211.15, 592.6	338.05 3	8.6 6	⁶⁶ Ge(2.26 h) - 43.89, 381.85, 272.97
314.8 3	0.094 12	²³⁰ Pa(17.4 d) - 951.95, 918.48, 454.95	338.281 10	2.79 6	²²³ Ra(11.435 d) - 269.459, 154.21, 323.871
315.302 13	19	¹¹⁷ In(116.2 m)	338.320 3	11.27 19	²²⁸ Ac(6.15 h) - 911.204, 968.971, 964.766
315.7 2	39 4	⁷⁶ Kr(14.8 h) - 270.2, 45.48, 406.5	338.44 3	19.2 4	²⁰⁶ Po(8.8 d) - 1032.26, 511.36, 286.410
316 2	0.15 2	²⁵⁴ Es(275.7 d) - 63.0, 304, 385	338.8 2	55 3	¹⁹⁴ Ir(171 d) - 482.833, 328.455, 600.5
316.19 5	2.89 25	¹⁹⁶ Au(9.6 h) - 147.81, 188.27, 168.37	339.65 6	5.6 5	¹⁸² Hf(61.5 m) - 344.1, 224.38, 506.60
316.3 1	1.343 20	¹¹³ Ag(5.37 h) - 298.58, 258.8, 672.3	340.08 1	23	¹⁵¹ Pm(28.40 h) - 167.75, 275.21, 717.72

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Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
340.547 8	42.2 13	¹³⁶ Cs(13.16 d) - 818.514, 1048.073, 1235.362	367.8 1	†100 7	²⁵⁸ Md(51.5 d) - 447.9, 276.8, 71.1
340.71 13	70 3	⁹⁹ Rh(4.7 h) - 617.8, 1261.2, 936.7	367.943 10	73	²⁰⁰ Au(18.7 h) - 332.82, 146.07, 59.97
340.81 3	4.47 4	²³³ Pa(26.967 d) - 312.17, 300.34, 86.814	367.943 10	87	²⁰⁰ Tl(26.1 h) - 1205.717, 579.298, 828.320
341.65 5	0.41 4	¹³⁸ Nd(5.04 h) - 325.76, 199.50, 215.31	368.76 6	0.35 2	²⁴⁹ Cm(64.15 m) - 634.31, 560.45, 621.87
342.13 2	7	¹¹¹ Ag(7.45 d) - 245.395, 96.75, 620.26	370.0 1	17.2 6	¹⁴⁷ Gd(38.06 h) - 229.32, 396.00, 929.01
343.40 8	84	¹⁷⁵ Hf(70 d) - 89.36, 433.0, 229.6	370.509 8	11.0 6	¹⁵⁷ Eu(15.18 h) - 63.929, 410.723, 54.548
344.1 1	42 4	¹⁸² Hf(61.5 m) - 224.38, 506.60, 455.80	371.4 1	11.7 6	²⁵⁷ Md(5.52 h) - 325.1, 181.3, 388.5
344.2785 12	26.5 4	¹⁵² Eu(13.537 y) - 121.7817, 1408.006, 964.079	371.76 3	0.52 11	¹⁶⁶ Dy(81.6 h) - 82.471, 28.242, 54.2400
344.2785 12	2.38 3	¹⁵² Eu(9.3116 h) - 841.570, 963.390, 121.7817	371.918 2	30.60 9	¹²⁹ Cs(32.06 h) - 411.490, 548.945, 39.578
344.2785 12	65	¹⁵² Tb(17.5 h) - 586.2648, 271.131, 778.9040	372.760	87	⁴³ K(22.3 h) - 617.490, 396.861, 593.390
344.459 10	17.9 4	¹¹⁷ Cd(2.49 h) - 273.349, 1303.27, 1576.62	372.760	23	⁴³ Sc(3.891 h) - 1931.3, 1558.5, 593.390
344.5 5	-1.3	²⁴⁷ Cm(1.56×10 ⁷ y) - 402.6, 278.0, 287.4	373.050 5	2.15 5	⁶¹ Cu(3.333 h) - 282.956, 656.008, 67.412
344.520 21	41	¹⁰⁵ Ag(41.29 d) - 280.41, 644.55, 443.37	373.246 11	14.04 19	¹³¹ Ba(11.50 d) - 496.326, 123.805, 216.078
344.52 17	0.7	²⁰⁸ Hg(8.15 m) - 304.896, 649.42	374.4852 8	0.721 5	¹⁹² Ir(73.831 d) - 205.79549, 484.5780, 201.3112
344.52 17	0.7	²¹⁰ Bi(3.04×10 ⁶ y) - 265.832, 304.896, 649.42	374.72 7	89 15	²⁰⁴ Pb(67.2 m) - 899.15, 911.78, 622.53
344.9 2	35.2 14	¹⁸⁴ Hf(4.12 h) - 139.1, 181.0, 41.4	374.72 7	82 4	²⁰⁴ Bi(11.22 h) - 899.15, 984.02, 911.78
344.95 20	0.0030 3	⁶⁵ Zn(244.26 d) - 1115.546, 770.6	374.991 12	17.2 6	¹²⁷ Xe(36.4 d) - 202.860, 172.132, 145.252
345.916 25	15.12 10	¹⁸¹ Hf(42.39 d) - 482.182, 133.024, 136.266	374.99 2	0.309 15	¹²⁸ Ba(2.43 d) - 273.44, 229.50, 359.10
346.5 2	11.1 3	¹⁹⁷ Pt(95.41 m) - 53.10	375.045 6	0.001554 9	²³⁹ Pu(24110 y) - 51.624, 38.661, 129.297
346.547 15	56	¹⁶⁷ Ho(3.1 h) - 321.336, 237.873, 207.801	375.1 1	3.3 3	²⁴⁹ Es(102.2 m) - 379.5, 813.2, 1218.5
346.547 15	0.025 3	¹⁶⁷ Tm(9.25 d) - 207.801, 57.0723, 531.54	376.2 1	0.071 7	²⁴⁷ Cf(3.11 h) - 294.1, 447.8, 417.9
346.643 5	69 5	¹⁵⁴ Tb(22.7 h) - 247.925, 1419.81, 123.071	376.676 3	3.2 3	²⁴⁵ Pu(10.5 h) - 327.428, 560.13, 308.222
346.651 3	23.9 3	¹⁴⁹ Gd(9.28 d) - 149.735, 298.634, 748.601	376.7 3	-0.9	¹³³ Ce(97 m) - 97.261, 76.9, 557.7
346.93 7	0.0076 5	⁶⁰ Co(5.2714 y) - 1332.501, 1173.237, 826.06	377.385 4	3.93 4	⁷⁵ Br(96.7 m) - 286.572, 141.3147, 427.883
347.18 10	†150 20	¹⁷¹ Hf(12.1 h) - 122.0, 662.2, 1071.8	377.4 3	0.122 15	²⁵² Es(471.7 d) - 924.12, 800.01, 785.09
348.16 7	0.234 5	¹⁵⁹ Gd(18.479 h) - 363.55, 58.00, 226.01	377.748 5	1.643 19	⁵² Fe(8.275 h) - 168.688, 1727.57, 1039.928
348.16 7	0.00095 10	¹⁵⁹ Dy(144.4 d) - 58.00, 79.45, 290.27	378.5029 7	29.7 12	¹⁷⁷ Lu(160.4 d) - 413.6636, 319.0205, 121.6211
348.4	†64	¹⁷⁸ Yb(74 m) - 390.8, 42.4	378.8 5	4.2 4	⁸⁰ Sr(106.3 m) - 589.0, 175.4, 553.4
348.5 5	12.0 6	¹⁷⁵ Ta(10.5 h) - 207.4, 266.9, 81.5	379.5 1	40.4 25	²⁴⁹ Es(102.2 m) - 813.2, 375.1, 1218.5
349.4 1	19.8 9	²⁵⁰ Es(8.6 h) - 828.82, 303.41, 383.7	380.79 7	78	⁸⁷ Y(13.37 h)
349.9 1	0.82 4	²⁵¹ Fm(5.30 h) - 880.8, 453.1, 405.6	380.8 1	2.40 17	²⁴⁵ Bk(4.94 d) - 205.879, 471.805, 164.8
350.065 10	7.80 15	¹²² Xe(20.1 h) - 148.612, 416.633, 90.596	381.17 3	2.49 24	⁸³ Sr(32.41 h) - 762.65, 659.1, 381.53
350.619 3	3.23 3	¹⁴³ Ce(33.039 h) - 293.266, 57.356, 664.571	381.43 10	7.5 4	¹⁸⁸ Pt(10.2 d) - 187.59, 195.05, 423.34
352.24 2	29.43 9	¹⁴⁹ Tb(4.118 h) - 164.98, 388.57, 652.12	381.53 3	14.1 5	⁸³ Sr(32.41 h) - 762.65, 659.1, 418.37
353.05 6	34.6 10	⁹⁹ Rh(16.1 d) - 528.24, 89.65, 322.41	381.7 3	0.56 5	²⁴³ Pu(4.956 h) - 84.0, 41.8, 67
353.39 6	9.5 5	¹⁹⁹ Pb(90 m) - 366.90, 1135.04, 720.24	381.768 12	89.6 9	¹⁸³ Os(13.0 h) - 114.463, 167.844, 851.474
353.7 2	0.58 6	¹³⁷ Pr(1.28 h) - 836.7, 433.9, 514.0	381.85 5	28	⁶⁶ Ge(2.26 h) - 43.89, 272.97, 108.85
353.9912 5	11.2 3	¹⁸³ Ta(5.1 d) - 246.0591, 107.9322, 161.3467	382.6 4	>6.0×10 ⁻⁵	¹¹³ Sn(115.09 d) - 391.690, 255.06, 638.03
355.40 9	2.09 9	⁹⁷ Zr(16.91 h) - 743.36, 507.64, 1147.97	383.2 3	0.0196 20	²⁵¹ Fm(5.30 h) - 425.4, 480.4, 358.3
355.684 2	94 3	¹⁹⁷ Ir(1.40 h) - 393.346, 521.175, 447.1	383.6 5	0.036 3	²³⁰ Pa(17.4 d) - 951.95, 918.48, 454.95
355.684 2	87	¹⁹⁶ Au(6.183 d) - 332.983, 1091.331, 326.349	383.7 1	13.6 7	²⁵⁰ Es(8.6 h) - 828.82, 303.41, 349.4
356.017 2	62.05 19	¹³³ Ba(10.51 y) - 80.9971, 302.853, 383.851	383.851 3	0.0024 2	¹³³ Xe(5.243 d) - 80.9971, 79.6139, 160.613
356.426 5	13.61 7	¹⁵⁶ Tb(5.35 d) - 534.318, 199.2132, 1222.36	383.851 3	8.94 3	¹³³ Ba(10.51 y) - 356.017, 80.9971, 302.853
357.47 5	0.0221 7	¹⁰³ Pd(16.991 d) - 39.757, 497.080, 294.978	385.0 1	0.57 4	²⁴⁵ Bk(4.94 d) - 205.879, 471.805, 164.8
358.21 3	2.3 3	¹⁵⁸ Er(2.29 h) - 71.91, 386.84, 248.58	385 2	0.05 1	²⁵⁴ Es(275.7 d) - 63.0, 316, 304
358.3 1	0.315 20	²⁵¹ Fm(5.30 h) - 425.4, 480.4, 383.2	385.31 13	0.060 10	⁹³ Mo(6.85 h) - 949.82, 689.07, 541.22
358.384 9	0.221 8	¹³⁵ Xe(9.14 h) - 249.770, 608.151, 408.009	386.28 5	93	⁷¹ Zn(3.96 h) - 487.38, 620.18, 511.56
359.10 4	0.096 9	¹²⁸ Ba(2.43 d) - 273.44, 374.99, 229.50	386.4 1	3.36 17	¹⁶⁷ Ho(3.1 h) - 346.547, 321.336, 237.873
359.90 9	6.0 3	¹⁹¹ Pt(2.802 d) - 538.90, 409.44, 82.407	386.84 4	9.0 4	¹⁵⁸ Er(2.29 h) - 71.91, 248.58, 45.5
360.32 10	0.1346 10	¹²⁷ Te(9.35 h) - 417.95, 202.860, 215.17	387.1 5	0.0181 18	²⁵³ Es(20.47 d) - 41.79, 389.11, 42.98
360.70 11	20 4	¹⁸¹ Re(19.9 h) - 365.57, 639.30, 953.42	387.87 5	2.15 8	¹⁹⁵ Hg(41.6 h) - 261.75, 560.27, 200.38
360.80 10	108	⁷³ Se(7.15 h) - 67.03, 865.09, 510	388.16 2	66	²⁴⁹ Cf(351 y) - 333.37, 252.80, 266.62
361.136 6	12.1 10	¹⁹⁰ Re(3.2 h) - 119.12, 0	388.5 15	-0.07	²⁵⁷ Md(5.52 h) - 371.4, 325.1, 181.3
361.136 6	89.57 9	¹⁹⁰ Ir(3.25 h) - 616.08, 502.53, 186.718	388.531 3	81.9 5	⁸⁷ Sr(2.803 h)
361.27 5	9.9 5	²⁰¹ Pb(9.33 h) - 331.19, 945.96, 907.56	388.531 3	82	⁸⁷ Y(79.8 h) - 484.805
361.68 2	0.84 4	¹⁶⁵ Dy(2.334 h) - 94.700, 633.415, 715.328	388.57 2	18.37 13	¹⁴⁹ Tb(4.118 h) - 352.24, 164.98, 652.12
362	<0.00026	²⁰⁸ Tl(4.199 m) - 803.10, 1166	388.633 11	34.1 7	¹²⁶ I(13.11 d) - 666.331, 753.819, 1420.17
362.39 13	39.5 9	¹⁷⁹ Hf(25.05 d) - 453.43, 122.793, 146.15	388.633 11	41	¹²⁶ Cs(1.64 m) - 491.243, 925.24, 879.876
362.81 4	2.2×10 ⁻⁶ 4	⁸⁵ Kr(10.756 y) - 514.0067, 151.159, 129.820	389.11 8	0.0264 3	²⁵³ Es(20.47 d) - 41.79, 387.1, 42.98
362.81 4	>0.0010	⁸⁵ Sr(64.84 d) - 514.0067, 868.5, 151.159	389.94 7	6.2 5	²⁰² Pb(3.53 h) - 490.47, 459.72, 241.1
363.55 4	11.4 6	¹⁵⁹ Gd(18.479 h) - 58.00, 348.16, 226.01	390.38 7	†381 27	¹⁸⁴ Ir(3.09 h) - 263.97, 119.80, 961.22
364.489 5	81.7 6	¹³¹ I(8.02070 d) - 636.989, 284.305, 80.185	390.6 2	0.31 3	¹⁶⁴ Yb(75.8 m) - 40.928, 675.41, 446.74
364.94 7	9.3 3	¹⁹⁵ Ir(3.8 h) - 100	390.8	†100	¹⁷⁸ Yb(74 m) - 348.4, 42.4
365.4 1	19 3	¹⁹⁸ Pb(2.40 h) - 290.3, 173.4, 865.3	390.9 1	6.1 3	¹³⁸ Pr(2.12 h) - 1037.8, 788.742, 302.7
365.57 12	56 6	¹⁸¹ Re(19.9 h) - 360.70, 639.30, 953.42	391.28 6	1.53 12	¹¹¹ Pd(5.5 h) - 172.18
365.8 1	0.36 3	²⁴⁵ Bk(4.94 d) - 205.879, 471.805, 164.8	391.690 8	64.2	¹¹³ In(1.6582 h)
366.27 3	4.81 5	⁶⁵ Ni(2.5172 h) - 1481.84, 1115.546, 1623.42	391.690 8	64	¹¹³ Sn(115.09 d) - 255.06, 638.03, 382.6
366.421 15	1.191 13	⁹⁹ Mo(65.94 h) - 140.511, 739.50, 181.063	392.87 9		⁸⁸ Zr(83.4 d)
366.56 10	0.076 12	²³⁰ Pa(17.4 d) - 951.95, 918.48, 454.95	393.346 7	97.0 19	¹⁹⁶ Ir(1.40 h) - 521.175, 447.1, 355.684
366.7 4	2.3 5	¹⁸⁶ Pt(2.0 h) - 276.7, 611.5, 635.6	393.529 10	0.220 8	⁶⁷ Cu(61.83 h) - 184.577, 93.311, 91.266
366.84 2	0.0319 3	¹³⁵ La(19.5 h) - 480.51, 874.51, 587.83	393.529 10	4.68 6	⁶⁷ Ga(3.2612 d) - 93.311, 184.577, 300.219
366.90 6	44.2 22	¹⁹⁹ Pb(90 m) - 353.39, 1135.04, 720.24	396.00 10	34.3 16	¹⁴⁷ Gd(38.06 h) - 229.32, 929.01, 370.0

8th Edition of the Table of Isotopes: 1998 Update - Energy-Ordered Decay Gamma-Ray Table

Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
396.329 20	6.40 10	¹⁷⁵ Yb(4.185 d) - 282.522, 113.805, 144.863	423.553 10	7.4 4	¹⁴⁹ Nd(1.728 h) - 211.309, 114.314, 270.166
396.861	11.85 8	⁴³ K(22.3 h) - 372.760, 617.490, 593.390	423.722 1	3.15 4	¹⁴⁰ Ba(12.752 d) - 537.261, 29.9640, 162.660
397.54 10	9.3 3	⁷⁹ Kr(35.04 h) - 261.35, 606.09, 306.47	424.6 1	0.103 9	¹⁷⁷ Ta(56.56 h) - 112.9498, 208.3664, 1057.8
397.859 12	2.9 3	¹⁸³ Hf(1.067 h) - 783.754, 73.174, 459.069	425.1 3	0.0137 20	⁴⁵ Ti(184.8 m) - 720.22, 1408.6, 1662.4
398.155 20	0.87 6	¹⁴⁷ Nd(10.98 d) - 91.105, 531.016, 319.411	425.4 1	0.95 5	²⁵¹ Fm(5.30 h) - 480.4, 358.3, 383.2
398.9 6	88	¹⁷³ Tm(8.24 h) - 461.4, 62.6	425.8 1	1.94 12	²³⁷ Am(73.0 m) - 280.23, 438.4, 473.5
399.7 3	0.122 15	²⁵² Es(471.7 d) - 924.12, 800.01, 785.09	425.84 10	13.0 9	¹⁹⁷ Ti(2.84 h) - 152.22, 1411.34, 577.97
399.84 2	4.7 3	¹⁹¹ Au(3.18 h) - 586.45, 277.88, 674.19	426.00 3	0.58 12	¹⁶⁶ Dy(81.6 h) - 82.471, 28.242, 54.2400
400 20		²⁵⁶ Md(78.1 m)	426.0 1	7	¹⁹⁶ Au(6.183 d) - 355.684, 332.983, 1091.331
400.56 5	36.6 10	²⁸ Mg(20.91 h) - 30.6383, 1342.27, 941.72	426.0 1	84 5	¹⁹⁶ Ti(1.84 h) - 610.5, 635.5, 1495.8
400.6600 11	11.37 6	⁷⁵ Se(119.779 d) - 264.6584, 136.0008, 279.5441	426.0 1	91 14	¹⁹⁶ Ti(1.41 h) - 635.5, 695.6, 505.2
400.89 7	3.94 13	¹⁸⁷ Ir(10.5 h) - 912.95, 427.12, 610.68	426.25 21	4.12 15	¹⁰⁹ In(4.2 h) - 203.5, 623.7, 1148.9
400.99 4	0.329 19	¹⁷⁶ Lu(3.78×10 ¹⁰ y) - 306.78, 201.83, 88.34	426.383 6	97.0 13	¹⁷⁸ Hf(31 y) - 325.562, 574.215, 213.440
401.323 10	3.35 7	²⁰³ Pb(51.873 h) - 279.1967, 680.516	426.383 6	97.0 13	¹⁷⁸ Ta(2.36 h) - 325.562, 213.440, 88.867
401.81 1	6.37 22	²¹⁹ Rn(3.96 s) - 271.23, 130.59, 293.54	426.98 5	13.2 6	¹⁷⁷ W(135 m) - 115.65, 1036.4, 115.05
402.586 10	49.6 20	⁸⁷ Kr(76.3 m) - 2554.8, 845.43, 2558.1	427.12 4	4.12 13	¹⁸⁷ Ir(10.5 h) - 912.95, 400.89, 610.68
402.6 3	72 6	²⁴⁷ Cm(1.56×10 ⁷ y) - 278.0, 287.4, 344.5	427.875 6	30	¹²⁵ Sb(2.7582 y) - 600.600, 635.954, 463.365
404.2 2	0.0022 5	²²⁴ Ra(3.66 d) - 240.986, 292.70, 645.50	427.883 4	4.4 4	⁷⁵ Br(96.7 m) - 286.572, 141.3147, 377.385
405 2	-0.08	²⁵³ Fm(3.00 d) - 271.8, 144.99, 62.47	430.49 3	3.28 15	⁹² Sr(2.71 h) - 1383.93, 953.31, 241.56
405.6 1	0.99 5	²⁵¹ Fm(5.30 h) - 880.8, 453.1, 349.9	430.634 20	4.06 20	²⁴¹ Cm(32.8 d) - 471.805, 205.879, 165.049
405.75 6	9.7 5	²⁰⁷ Po(5.80 h) - 992.33, 742.64, 911.79	430.634 20	0.0015 3	²⁴⁵ Bk(4.94 d) - 205.879, 471.805, 164.8
406.5 2	12.1 12	⁷⁶ Kr(14.8 h) - 315.7, 270.2, 45.48	431.4 5	5.2×10 ⁻⁵ 4	¹⁴⁵ Sm(340 d) - 61.25, 492.31
406.52 5	2.81 24	¹⁵⁰ Eu(12.8 h) - 333.971, 1165.74, 921.2	431.652 4	3.9 4	⁷⁵ Br(96.7 m) - 286.572, 141.3147, 427.883
407.0 1	0.190 20	²⁴⁷ Cf(3.11 h) - 294.1, 447.8, 417.9	432.86 7	9	¹⁹⁵ Ir(3.8 h) - 100
407.338 3	42.1 8	¹⁷² Er(49.3 h) - 610.062, 68.107, 446.025	433.0 5	1.436 25	¹⁷⁵ Hf(70 d) - 343.40, 89.36, 229.6
407.351 15	38.8 3	¹¹⁶ Sb(60.3 m) - 1293.558, 972.564, 542.867	433.14 10	2.52 18	¹⁹⁷ Ti(2.84 h) - 425.84, 152.22, 1411.34
407.63 4	25	¹⁹³ Hg(11.8 h) - 257.97, 573.25, 932.37	433.22 9	0.0518 9	¹³⁷ Ce(9.0 h) - 447.15, 10.6, 436.59
408.009 8	0.359 12	¹³⁵ Xe(9.14 h) - 249.770, 608.151, 158.260	433.9 2	1.28 11	¹³⁷ Pr(1.28 h) - 836.7, 614.0, 160.32
409.1 1	0.0035 12	¹⁹⁷ Pt(95.41 m) - 346.5, 53.10	433.937 5	90	¹⁰⁸ Ag(418 y) - 722.938, 514.20, 181.32
409.1 1	0.009 3	¹⁹⁷ Hg(23.8 h) - 279.01, 130.2, 201.6	434.01 5	1.087 20	¹²⁶ Cs(1.64 m) - 388.633, 491.243, 925.24
409.44 2	8.0 4	¹⁹¹ Pt(2.802 d) - 538.90, 359.90, 82.407	434.190 17	9.8 4	¹¹⁷ Cd(2.49 h) - 273.349, 1303.27, 344.459
409.462 6	9.3 5	²²⁸ Pa(22 h) - 308.0, 29.8, 43.3	434.849 17	34.4 8	¹⁸⁶ Ir(16.64 h) - 296.911, 137.155, 773.276
409.5 3	0.84 6	⁸⁵ Y(2.68 h) - 231.67, 504.45, 913.93	438.1 1	0.0285 6	¹⁶³ Er(75.0 m) - 1113.5, 439.94, 297.88
409.68 15	21.4 5	¹⁷⁹ Hf(25.05 d) - 453.43, 362.39, 122.793	438.4 1	8.3 4	¹³⁷ Ce(9.0 h) - 447.15, 10.6, 433.22
410.7 2	0.14 4	²²¹ Fr(4.9 m) - 218.19, 99.5, 150.0	438.63 2	94.77 20	²³⁷ Am(73.0 m) - 280.23, 473.5, 908.8
410.723 9	17.5 9	¹⁵⁷ Eu(15.18 h) - 63.929, 370.509, 54.548	439.01 15	80.4 16	⁶⁹ Zn(13.76 h)
411.1163 11	2.234 4	¹⁵² Eu(13.537 y) - 121.7817, 1408.006, 964.079	439.59 2	10.0 5	¹⁵⁰ Eu(36.9 y) - 333.971, 584.274, 737.455
411.1163 11	4.1 3	¹²⁹ Tb(17.5 h) - 344.2785, 586.2648, 271.131	439.59 2	91	²⁰² Au(28.8 s) - 1125.20, 1306.38, 1203.7
411.490 2	22.31 9	¹⁵² Cs(32.06 h) - 371.918, 548.945, 39.578	439.59 2	1.20 8	²⁰² Tl(12.23 d) - 520.11, 959.70
411.80205 17	96	¹⁹⁸ Au(2.69517 d) - 675.8836, 1087.684	439.895 22	0.0276 6	¹⁴⁷ Nd(10.98 d) - 91.105, 531.016, 319.411
411.80205 17	82 7	¹⁹⁸ Tl(5.3 h) - 675.8836, 636.4, 1200.6	439.94 10	0.428 14	¹⁶³ Er(75.0 m) - 1113.5, 436.1, 297.88
411.80205 17	57 5	¹⁹⁸ Tl(1.87 h) - 636.4, 587.2, 226.2	440.02 5	23.0 14	¹²³ I(13.27 h) - 158.97, 528.96, 538.54
411.95 5	63	¹²⁷ Cs(6.25 h) - 124.70, 462.31, 587.01	442.2 1	0.042 6	²¹¹ Rn(14.6 h) - 68.573, 167.90, 236.48
413.0 1	0.0147 20	²²³ Fr(27.4 s) - 234.5, 178.4, 44.60	442.37 5	26.8 3	¹⁰⁵ Rh(35.36 h) - 319.14, 306.25, 280.41
413.6636 7	17.4 6	¹⁷⁷ Lu(160.4 d) - 319.0205, 121.6211, 171.8576	442.901 10	81.9 9	¹²⁸ Cs(3.66 m) - 526.557, 1140.079, 969.458
413.707 6	0.001466 11	²³⁹ Pu(24110 y) - 51.624, 38.661, 129.297	443.09 4	10.5 5	¹⁸⁰ Hf(5.5 h) - 332.277, 215.256, 57.555
414.028 12	18.59 15	¹⁴⁸ Pm(41.29 d) - 75.7, 62.2	443.37 7	5.5 3	¹⁰⁵ Ag(41.29 d) - 344.520, 280.41, 644.55
414.03 4	72	¹⁸⁴ Ta(8.7 h) - 252.848, 920.932, 111.208	443.75 5	3.27 9	²³⁰ Pa(17.4 d) - 951.95, 918.48, 454.95
414.60 5	0.00030	²²⁸ Ra(1600 y) - 186.211, 262.27, 600.66	443.799 19	6.0 6	¹⁰³ Ru(39.26 d) - 497.080, 610.33, 557.039
414.81 2	83.3 21	¹²⁶ Sb(12.46 d) - 695.03, 666.331, 720.64	445.37 21	4.00 22	⁹⁰ Mo(5.67 h) - 257.34, 122.370, 203.13
415.2 3	0.0107 10	¹⁰⁹ Pd(13.7012 h) - 88.04, 311.4, 647.3	445.68 2	2.96 7	¹⁵¹ Pm(28.40 h) - 340.08, 167.75, 275.21
415.2	0.143 22	²¹² Pb(10.64 h) - 238.632, 300.087, 115.183	446.025 9	23.2 7	¹⁷² Er(49.3 h) - 610.062, 407.338, 68.107
415.76 4	1.745 16	²³³ Pa(26.967 d) - 312.17, 300.34, 340.81	446.15 2	0.28 3	⁸¹ Rb(4.576 h) - 190.46, 510.31, 456.76
416.33 3	21.8 5	⁷⁷ Ge(11.30 h) - 264.44, 211.03, 215.50	446.74 26	94.1 19	¹⁶⁴ Yb(75.8 m) - 40.928, 675.41, 390.6
416.633 25	1.87 4	¹²² Xe(20.1 h) - 350.065, 148.612, 90.596	447.1 2	1.8	¹⁹⁶ Ir(1.40 h) - 393.346, 521.175, 355.684
417.9 1	0.34 3	²⁴⁷ Cf(3.11 h) - 294.1, 447.8, 407.0	447.15 8	23.05 10	¹³⁷ Ce(9.0 h) - 10.6, 436.59, 433.22
417.95 10	1.0	¹²⁷ Te(9.35 h) - 360.32, 202.860, 215.17	447.515 3	0.55 4	¹⁶⁸ Tm(93.1 d) - 198.241, 815.990, 184.285
418.01 3	34.2 10	¹³⁰ I(12.36 h) - 536.09, 668.54, 739.48	447.8 1	†37 4	²⁴⁷ Cf(3.11 h) - 294.1, 417.9, 407.0
418.37 3	4.41 15	⁸³ Sr(32.41 h) - 762.65, 659.1, 381.53	447.9 1	12.3 6	²⁵⁸ Md(51.5 d) - 367.8, 276.8, 71.1
418.5 3	0.220 23	²⁵² Es(471.7 d) - 924.12, 800.01, 785.09	448.01 6	2.34 14	²⁴⁰ Np(61.9 m) - 566.34, 973.9, 600.57
418.5391 7	21.3 8	¹⁷⁷ Lu(160.4 d) - 413.6636, 319.0205, 121.6211	448.34 9	3.3 3	⁹² Y(3.54 h) - 934.46, 1405.28, 561.03
419.1 2	0.185 7	⁷⁵ Ge(82.78 m) - 264.6584, 198.6031, 468.8	449.2 3	0.00019	⁹⁴ Tc(293 m) - 871.082, 702.626, 849.74
419.83 7	†<26.7	¹²⁹ Ba(2.16 h) - 182.32, 1459.1, 202.38	449.37 10	0.011 4	²²⁶ Ra(1600 y) - 186.211, 262.27, 600.66
419.83 7	†<26.7	¹²⁹ Ba(2.16 h) - 182.32, 1459.1, 202.38	450.52 3	0.0108 5	²⁰⁰ Pb(21.5 h) - 147.63, 257.17, 235.63
420.5	<0.03	⁴⁸ Cr(21.56 h) - 308.25, 112.36	450.85 2	24.2 13	⁸⁵ Kr(4.480 h) - 304.87
421.6	0.065 9	¹⁴⁰ Gd(48.27 d) - 154.57, 115.51, 114.71	450.85 2	28.2 7	⁸⁵ Sr(67.63 m) - 151.159, 129.820, 731.812
422.04 10	0.0030 5	²²⁴ Ra(3.66 d) - 240.986, 292.70, 645.50	450.97 3	9.8 12	¹⁰⁶ Rh(131 m) - 511.842, 1045.83, 717.24
422.18 4	86 5	²⁰² Pb(3.53 h) - 490.47, 459.72, 389.94	450.97 3	0.31 6	¹⁰⁶ Ag(8.28 d) - 511.842, 1045.83, 717.24
422.18 4	83.7 25	²⁰² Bi(1.72 h) - 960.67, 657.49, 954.45	451.9 2	1.45 8	⁷⁶ Kr(14.8 h) - 315.7, 270.2, 45.48
422.4 4	0.38 6	¹⁰¹ Rh(3.3 y) - 127.23, 197.6, 324.8	452.83 10	68 3	²¹² Bi(60.55 m) - 727.330, 1620.50, 785.37
423.150 25	0.0301 15	¹⁰⁷ Cd(6.50 h) - 93.124, 828.93, 796.462	453.1 1		²⁵¹ Fm(5.30 h) - 425.4, 480.4, 358.3
423.34 10	4.36 23	¹⁸⁸ Pt(10.2 d) - 187.59, 195.05, 381.43	453.43 17		¹⁷⁹ Hf(25.05 d) - 362.39, 122.793, 146.15

8th Edition of the Table of Isotopes: 1998 Update - Energy-Ordered Decay Gamma-Ray Table

Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
453.655 5	8.61 19	²³² Pu(1.31 d) - 969.315, 894.351, 150.059	497.080 7	90.9 10	¹⁰³ Ru(39.26 d) - 610.33, 443.799, 557.039
453.796 11	4.69 10	¹²⁵ Xe(16.9 h) - 188.418, 243.378, 54.968	497.080 7	0.00396 14	¹⁰³ Pd(16.991 d) - 39.757, 357.47, 294.978
453.88 6	65 2	¹⁴⁶ Pm(5.53 y) - 735.72, 589.3, 146.4	497.358 24	0.047 1	¹¹⁵ In(4.486 h) - 336.240
454.95 5	8	²³⁰ Ac(122 s) - 508.20, 1243.9, 1347.7	497.77 10	73 5	²⁰⁰ Au(18.7 h) - 332.82, 146.07, 59.97
454.95 5	6.27 16	²³⁰ Pa(17.4 d) - 951.95, 918.48, 898.68	499.876 10	3.624 16	⁷¹ As(65.28 h) - 174.954, 1095.490, 326.785
454.95 5	2.5×10 ⁻⁵ 7	²³⁴ U(2.455×10 ⁵ y) - 53.20, 120.90, 508.20	501.6 1	3.7	¹⁷⁰ Hf(16.01 h) - 164.71, 620.7, 120.19
455.46 3	12.4 6	¹⁹⁹ Tl(7.42 h) - 208.20597, 247.26, 158.37947	502.53 7	92.31 4	¹⁹⁰ Ir(3.25 h) - 616.08, 361.136, 186.718
455.80 8	18.5 14	¹⁸² Hf(61.5 m) - 344.1, 224.38, 506.60	504.45 10	60	⁸⁵ Y(2.68 h) - 231.67, 913.93, 409.5
456.76 5	3.02 9	⁸¹ Rb(4.576 h) - 190.46, 446.15, 510.31	505.2 7	6 3	¹⁹⁶ Tl(1.41 h) - 426.0, 635.5, 695.6
458.25 7	1.7	²¹⁰ Rn(2.4 h) - 648.70, 570.95, 72.70	505.33 5	0.316 10	¹²³ I(13.27 h) - 158.97, 528.96, 440.02
459.069 11	27 3	¹⁸³ Hf(1.067 h) - 783.754, 73.174, 397.859	505.79 3	0.73 5	¹³² Cs(6.479 d) - 667.718, 630.19, 1317.927
459.60 5	7.70 23	¹²⁹ Te(69.6 m) - 27.81, 487.39, 278.43	506.093 10	0.558 13	¹⁴⁹ Eu(93.1 d) - 327.526, 277.089, 22.510
459.72 7	8.6 5	²⁰² Pb(3.53 h) - 490.47, 389.94, 241.1	506.5 5	0.154 21	²³³ Np(36.2 m) - 312.17, 298.89, 546.9
459.88 12	26.62 19	⁹⁶ Nb(23.35 h) - 778.224, 568.80, 849.929	506.60 8	21.6 17	¹⁸² Hf(61.5 m) - 344.1, 224.38, 455.80
460.50 3	3.95 20	¹⁹³ Os(30.5 h) - 139.03, 73.039, 557.36	507.4 7	85 7	⁸⁹ Nb(1.18 h) - 587.83, 769.69, 1277.5
460.57 3	0.121 3	⁹⁷ Ru(2.9 d) - 215.718, 324.48, 569.31	507.591 11	17.7 4	¹²¹ Te(16.78 d) - 573.139, 470.472, 65.548
461.4 8	6.9 3	¹⁷³ Tm(8.24 h) - 398.9, 62.6	507.60 10	14.8 8	⁶² Zn(9.186 h) - 596.56, 40.84, 548.35
462.31 5	5.07 5	¹²⁷ Cs(6.25 h) - 411.95, 124.70, 587.01	507.64 8	5.03 19	⁹⁷ Zr(16.91 h) - 743.36, 1147.97, 355.40
463.004 6	4.40 7	²²⁸ Ac(6.15 h) - 911.204, 968.971, 338.320	508.20 10	5.15 16	²³⁰ Ac(122 s) - 454.95, 1243.9, 1347.7
463.004 6	20.9 10	²²⁸ Pa(22 h) - 911.204, 968.971, 964.766	508.20 10	1.5×10 ⁻⁵ 24	²³⁴ U(2.455×10 ⁵ y) - 53.20, 120.90, 454.95
463.365 4	10.493 15	¹²⁵ Sb(2.7582 y) - 427.875, 600.600, 635.954	508.8 5	0.0228 18	¹⁴² Pr(19.12 h) - 641.285
464.55 4	1.73 8	¹³² Cs(6.479 d) - 667.718, 630.19, 505.79	-510	0.296 9	⁷³ Se(7.15 h) - 360.80, 67.03, 865.09
464.55 4	76 5	¹³² La(4.8 h) - 567.14, 1909.91, 663.07	510.056 10	52	¹⁸² Os(22.10 h) - 180.230, 263.285, 55.506
467.12 1	7.1 5	²⁰⁷ At(1.80 h) - 814.41, 588.33, 300.654	510.31 9	5.3 9	⁸¹ Rb(4.576 h) - 190.46, 446.15, 456.76
468.07152 24	47.83 17	¹⁹² Ir(73.831 d) - 205.79549, 484.5780, 374.4852	510.36 7	20.7 5	¹³³ Ce(4.9 h) - 477.22, 58.39, 130.803
468.59 6	2.95 20	¹⁰² Rh(207 d) - 475.070, 628.05, 1103.16	510.530 11	1.83 4	¹³³ I(20.8 h) - 529.872, 875.329, 1298.223
468.8 2	0.223 9	⁷⁵ Ge(82.78 m) - 264.6584, 198.6031, 419.1	510.77 10	22.6 3	²⁰⁸ Tl(3.053 m) - 2614.533, 583.191, 860.564
469.37 10	17.5 5	¹⁰⁵ Ru(4.44 h) - 724.21, 676.36, 316.44	511	0.449 22	¹⁵⁰ Tb(3.48 h) - 638.050, 496.242, 3383.6
469.7 1	†29.3 10	²³⁰ Ra(93 m) - 72.0, 63.0, 202.8	511 2	0.076	²²² Rn(3.8235 d)
470.472 13	1.41 3	¹²¹ Te(16.78 d) - 573.139, 507.591, 65.548	511.36 5	24.1 5	²⁰⁶ Po(8.8 d) - 1032.26, 286.410, 807.38
471.805 20	71 3	²⁴¹ Cm(32.8 d) - 430.634, 205.879, 165.049	511.56 4	28.4 19	⁷¹ Zn(3.96 h) - 386.28, 487.38, 620.18
471.805 20	0.026 5	²⁴⁵ Bk(4.94 d) - 205.879, 164.8, 430.634	511.842 28	86 4	¹⁰⁶ Rh(131 m) - 1045.83, 717.24, 450.97
473.0 4	25.8 7	¹²⁷ Sb(3.85 d) - 685.7, 783.7, 252.4	511.842 28	88 3	¹⁰⁶ Ag(8.28 d) - 1045.83, 717.24, 450.97
473.5 1	4.3 3	²³⁷ Am(73.0 m) - 280.23, 438.4, 908.8	514.0067 19	0.43	⁸⁵ Kr(10.756 y) - 362.81, 151.159, 129.820
473.6 2	0.046 11	²¹² Bi(60.55 m) - 727.330, 1620.50, 785.37	514.0 2	1.08 11	¹³⁷ Pr(1.28 h) - 836.7, 433.9, 160.32
475.070 27	95 4	¹⁰² Rh(2.9 y) - 631.28, 697.49, 766.84	514.0067 19	96	⁸⁵ Sr(64.84 d) - 868.5, 151.159, 362.81
475.070 27	47 3	¹⁰² Rh(207 d) - 628.05, 1103.16, 468.59	515.607 9	0.00017	²³⁶ Pu(2.858 y) - 47.574, 108.96, 166.0
475.28 4	1.02 4	¹²¹ I(2.12 h) - 212.189, 532.08, 598.74	516.18 4	40.7 4	²⁰⁶ Bi(6.243 d) - 803.10, 881.01, 1718.70
476.8 1	42.0 8	¹⁴⁴ Pm(363 d) - 696.510, 618.01, 778.5	517.63 6	0.0443 22	²¹⁹ Rn(3.96 s) - 271.23, 401.81, 130.59
477.2 2	20.2 14	⁵⁵ Co(17.53 h) - 931.3, 1408.4, 1316.4	518.05 2	13.6 5	¹³⁵ Ce(17.7 h) - 265.56, 300.07, 606.76
477.22 4	39	¹³³ Ce(4.9 h) - 510.36, 58.39, 130.803	518.55 7	34.0 11	¹⁹⁰ Ir(11.78 d) - 186.718, 605.24, 557.972
477.595	10.52 6	⁷ Be(53.29 d)	520.11 7	0.58 4	²⁰² Tl(12.23 d) - 439.59, 959.70
477.99 2	1.0	¹⁸⁸ Re(16.98 h) - 155.032, 632.99, 931.34	520.39 1	0.0576 18	⁸³ Br(2.40 h) - 529.635, 552.63, 648.9
477.99 2	15	¹⁸⁸ Ir(41.5 h) - 155.032, 2214.62, 632.99	520.39 1	44.7 22	⁸³ Rb(86.2 d) - 529.635, 552.63, 790.0
478.7 1	†24.2 10	²³⁰ Ra(93 m) - 72.0, 63.0, 202.8	520.639 7	0.558 22	⁷⁷ As(38.83 h) - 238.996, 249.786, 87.8671
479.357 10	15.4 5	¹⁵¹ Tb(17.609 h) - 287.357, 251.863, 108.088	520.639 7	22.4 4	⁷⁷ Br(57.036 h) - 238.996, 297.215, 249.786
479.51 5	90.74 3	⁹⁰ Y(3.19 h) - 202.53, 682.0	521.175 5	96	¹⁹⁶ Ir(1.40 h) - 393.346, 447.1, 355.684
479.531 17	21.8 4	¹⁸⁷ W(23.72 h) - 685.774, 72.001, 134.243	522.65 9	16.0 5	¹³² I(2.295 h) - 667.718, 772.60, 954.55
480.4 1	0.392 20	²⁵¹ Fm(5.30 h) - 425.4, 358.3, 383.2	526.557 14	2.41 3	¹²⁸ Cs(3.66 m) - 442.901, 1140.079, 969.458
480.44 2	36.5 8	⁵⁶ Ni(6.077 d) - 158.38, 811.85, 749.95	526.57 4	45 2	¹²⁸ Sb(9.01 h) - 753.82, 743.22, 314.12
480.51 2	1.5	¹³⁵ La(19.5 h) - 874.51, 587.83, 220.94	526.642 3	0.861 8	⁷¹ As(65.28 h) - 174.954, 1095.490, 499.876
482.182 23	80.50 11	¹⁸¹ Hf(42.39 d) - 133.024, 345.916, 136.266	527.900 10	27.45 18	¹¹⁵ Cd(53.46 h) - 336.240, 492.3, 260.890
482.833 22	97 5	¹⁹⁴ Ir(171 d) - 328.455, 600.5, 687.7	528.24 7	38	⁹⁹ Rh(16.1 d) - 353.05, 89.65, 322.41
484.40 4	2.21 11	¹⁸³ Os(9.9 h) - 1101.94, 1107.92, 1034.85	528.96 5	1.39 4	¹²³ I(13.27 h) - 158.97, 440.02, 538.54
484.470 20	0.290 2	¹¹⁵ Cd(44.6 d) - 933.8, 1290.580, 1132.570	529.635 9	1.200 17	⁸³ Br(2.40 h) - 520.39, 552.63, 648.9
484.5780 4	3.184 11	¹⁹² Ir(73.831 d) - 205.79549, 374.4852, 201.3112	529.635 9	29.3 13	⁸³ Rb(86.2 d) - 520.39, 552.63, 790.0
484.805 5	89.7 3	⁸⁷ Y(79.8 h) - 388.531	529.872 11	87.0 17	¹³³ I(20.8 h) - 875.329, 1298.223, 510.530
487.021 12	45.5 6	¹⁴⁰ La(1.6781 d) - 1596.210, 815.772, 328.762	530.6 5	0.091 9	⁴⁷ Ca(4.536 d) - 1297.09, 489.23, 807.86
487.38 4	62 3	⁷¹ Zn(3.96 h) - 386.28, 620.18, 511.56	531.016 22	13.1 7	¹⁴⁷ Nd(10.98 d) - 91.105, 319.411, 439.895
487.39 5	1.42 5	¹²⁹ Te(69.6 m) - 27.81, 459.60, 278.43	531.54 4	1.6	¹⁶⁷ Tm(9.25 d) - 207.801, 57.0723, 264.9
489.039 13	0.443 4	¹⁹² Ir(73.831 d) - 205.79549, 484.5780, 374.4852	531.86 5	8.75 17	¹⁰³ Ag(65.7 m) - 118.72, 148.193, 266.86
489.23 10	6.2 4	⁴⁷ Ca(4.536 d) - 1297.09, 807.86, 767.1	532.08 4	6.07 25	¹²¹ I(2.12 h) - 212.189, 598.74, 475.28
489.6 3	4.5 5	¹⁹⁸ Tl(1.87 h) - 636.4, 411.80205, 587.2	534.318 11	66.6 3	¹⁵⁶ Tb(5.35 d) - 199.2132, 1222.36, 88.9667
490.47 7	9.1 5	²⁰² Pb(3.53 h) - 459.72, 389.94, 241.1	534.90 2	13.2 7	²⁰⁴ Po(3.53 h) - 883.984, 270.068, 1016.31
490.5 5	†18 2	²⁴⁴ Bk(4.35 h) - 891.5, 217.6, 921.5	535.61 18	3.46 14	⁸⁵ Y(4.86 h) - 231.67, 2123.8, 767.40
491.243 11	2.85 6	¹²⁶ I(13.11 d) - 666.331, 753.819, 1420.17	536 10	>0.015	²⁴³ Bk(4.5 h) - 187.1, 146.4, 41
491.243 11	5.0 4	¹²⁶ Cs(1.64 m) - 388.633, 925.24, 879.876	536.09 3	99	¹³⁰ I(12.36 h) - 668.54, 739.48, 418.01
492.3 6	8.03 9	¹¹⁵ Cd(53.46 h) - 336.240, 527.900, 260.890	537.261 9	24.39 7	¹⁴⁰ Ba(12.752 d) - 29.9640, 162.660, 304.849
492.31 15	0.00328 12	¹⁴⁵ Sm(340 d) - 61.25, 431.4	537.45 4	30.5 3	²⁰⁶ Bi(6.243 d) - 803.10, 881.01, 516.18
495.013 15	71.3 22	¹⁷⁸ Hf(31 y) - 426.383, 325.562, 574.215	537.60 4	2.23 16	⁸¹ Rb(4.576 h) - 190.46, 446.15, 510.31
496.242 15	0.146 7	¹⁵⁰ Tb(3.48 h) - 638.050, 511, 3383.6	538.11 10	0.0110 9	²³⁶ Np(22.5 h) - 642.35, 687.59, 104.234
496.326 13	47	¹³¹ Ba(11.50 d) - 123.805, 216.078, 373.246	538.400 16	0.66 14	²⁴⁴ Am(10.1 h) - 743.971, 897.848, 153.863

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Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
538.5 2	0.00023	²⁰⁸ Po(2.898 y) - 291.7, 570.4, 601.6	569.5 8	1.8 10	¹⁸⁶ Pt(2.0 h) - 276.7, 611.5, 635.6
538.54 5	0.382 12	¹²³ I(13.27 h) - 158.97, 528.96, 440.02	569.5 1	8.2 8	²³⁴ Pa(6.70 h) - 131.30, 946.00, 883.24
538.90 5	13.7 7	¹⁹¹ Pt(2.802 d) - 409.44, 359.90, 82.407	569.702 2	97.74 3	²⁰⁷ Bi(31.55 y) - 1063.662, 1770.237, 1442.20
539.59 5	78.4 24	¹⁰⁰ Rh(20.8 h) - 2376.1, 1553.4, 822.6	570.4 3	0.0006	²⁰⁸ Po(2.898 y) - 291.7, 601.6, 861.9
540.18 6	20	¹⁵⁴ Tb(9.4 h) - 123.071, 247.925, 649.564	570.95 7	0.840 22	²¹⁰ Rn(2.4 h) - 458.25, 648.70, 72.70
540.4 3	0.048 8	²²⁶ Ac(29.37 h) - 253.73, 186.05, 67.67	572.76 6	0.050 10	⁹³ Mo(6.85 h) - 949.82, 689.07, 541.22
541.22 7	0.060 10	⁹³ Mo(6.85 h) - 949.82, 689.07, 385.31	572.9 1	15	¹⁷⁰ Hf(16.01 h) - 164.71, 620.7, 120.19
542.57 3	4.5 3	¹⁴⁵ Eu(5.93 d) - 893.73, 653.512, 1658.53	573.139 11	80.3 17	¹²¹ Te(16.78 d) - 507.591, 470.472, 65.548
542.867 15	48.1 4	¹¹⁶ Sb(60.3 m) - 1293.558, 972.564, 407.351	573.25 6	14.2 10	¹⁹³ Hg(11.8 h) - 257.97, 407.63, 932.37
544.44 2	0.88 8	²⁵⁴ Es(39.3 h) - 211.80, 177.30, 71.30	574.17 3	0.033	⁶⁹ Zn(13.76 h) - 438.63
544.7 3	17.9 9	¹²⁹ Sb(4.40 h) - 812.8, 914.6, 1030.1	574.17 3	13.3 11	⁶⁹ Ge(39.05 h) - 1107.01, 872.14, 1336.72
544.89 3	5.77 23	¹⁸⁹ Pt(10.87 h) - 721.41, 94.33, 568.84	574.215 21	88 3	¹⁷⁸ Hf(31 y) - 426.383, 325.562, 213.440
545.0 1	91	²⁰⁹ At(5.41 h) - 781.9, 790.2, 195.0	574.8 3	0.070 8	²²⁶ Ac(29.37 h) - 253.73, 186.05, 67.67
545.06 5	4.6 5	¹⁰¹ Rh(4.34 d) - 306.85, 127.23, 179.62	575.10 10	0.90 9	¹¹¹ Pd(5.5 h) - 172.18
546.9 4	0.280 14	²³³ Np(36.2 m) - 312.17, 298.89, 506.5	576.0 2	0.065 9	¹⁴⁶ Gd(48.27 d) - 154.57, 115.51, 114.71
547.5 1	5.23 26	¹³⁸ Pr(2.12 h) - 1037.8, 788.742, 302.7	577.97 10	4.5 3	¹⁹⁷ Tl(2.84 h) - 425.84, 152.22, 1411.34
548.35 11	15.3 8	⁶² Zn(9.186 h) - 596.56, 40.84, 507.60	578.55 5	0.0315 15	⁶⁸ Ga(67.629 m) - 1077.35, 1883.09, 805.75
548.945 8	3.40 3	¹²⁹ Cs(32.06 h) - 371.918, 411.490, 39.578	578.56 4	7.3 4	²⁰² Bi(1.72 h) - 960.67, 422.18, 657.49
549.76 4	0.114 17	²²⁰ Rn(55.6 s)	578.853 9	2.96 7	⁷⁷ Br(57.036 h) - 238.996, 520.639, 297.215
550.284 12	94.5 7	¹⁴⁸ Pm(41.29 d) - 75.7, 62.2	579.298 13	72 5	²⁰⁰ Au(18.7 h) - 332.82, 146.07, 59.97
550.284 12	22.00 16	¹⁴⁹ Pm(5.370 d) - 1465.12, 914.85, 611.293	579.298 13	13.8 7	²⁰⁰ Tl(26.1 h) - 367.943, 1205.717, 828.320
550.284 12	98.5 22	¹⁴⁸ Eu(54.5 d) - 629.987, 611.293, 553.231	580.65 5	>0.0007	⁸⁵ Kr(4.480 h) - 304.87
550.7 1	5.0	²⁴⁸ Bk(23.7 h) - 592.2, 43.38	580.65 5	0.00087 9	⁸⁵ Sr(67.63 m) - 151.159, 129.820, 731.812
552.63 2	0.0200 11	⁸³ Br(2.40 h) - 529.635, 520.39, 648.9	580.82	0.0659 22	¹⁵⁹ Gd(18.479 h) - 363.55, 58.00, 348.16
552.63 2	16.0 7	⁸³ Rb(86.2 d) - 520.39, 529.635, 790.0	580.97 8	†58 30	¹⁹³ Hg(3.80 h) - 861.11, 1118.84, 789.21
553.231 14	12.9 22	¹⁴⁸ Eu(54.5 d) - 550.284, 629.987, 611.293	581.7 1	1.2×10 ⁻⁵ 5	²³⁴ U(2.455×10 ⁵ y) - 53.20, 120.90, 454.95
553.4 5	6.9 7	⁸⁰ Sr(106.3 m) - 589.0, 175.4, 378.8	582.082 3	0.055 7	⁹⁵ Nb(86.6 h) - 235.69
554.1 2	2.94 9	¹²⁹ Ba(2.23 h) - 214.30, 220.83, 129.14	582.082 3	29.96 5	⁹⁵ Tc(61 d) - 204.117, 835.149, 786.198
554.348 2	70.8 7	⁸² Br(35.30 h) - 776.517, 619.106, 698.374	583.191 2	84.5 7	²⁰⁸ Tl(3.053 m) - 2614.533, 510.77, 860.564
554.348 2	62.4 8	⁸² Rb(6.472 h) - 776.517, 619.106, 1044.002	584.274 12	52.6 14	¹⁵⁰ Eu(36.9 y) - 333.971, 439.401, 737.455
554.60 7	7.9×10 ⁻⁵ 5	²⁴⁴ Cm(18.10 y) - 42.824, 98.860, 152.63	584.32 2	2.84 20	²⁵⁴ Es(39.3 h) - 211.80, 177.30, 71.30
554.7	5.1 6	¹⁴⁷ Tb(1.7 h) - 1152.4, 694.4, 139.9	585.13 5	1.99 8	¹⁹⁵ Hg(9.9 h) - 779.80, 61.46, 180.11
555.796 23	92.6 9	¹⁰⁴ Ag(69.2 m) - 767.72, 941.7, 926.2	586.2648 25	9.4 6	¹⁵² Tb(17.5 h) - 344.2785, 271.131, 778.9040
556.52 4	1.92 19	¹⁰² Rh(207 d) - 475.070, 628.05, 1103.16	586.45 3	17	¹⁹¹ Au(3.18 h) - 277.88, 674.19, 283.91
556.65 5	0.121 4	¹²² Te(33.6 d) - 105.50	587.01 5	4.21 6	¹²⁷ Cs(6.25 h) - 411.95, 124.70, 462.31
557.039 20	0.8672 9	¹⁰³ Ru(39.26 d) - 497.080, 610.33, 443.799	587.1 3	52	¹⁹⁸ Tl(1.87 h) - 636.4, 411.80205, 226.2
557.36 6	1.30 12	¹⁹³ Os(30.5 h) - 139.03, 460.50, 73.039	587.46 2	15.6 5	¹⁵¹ Tb(17.609 h) - 287.357, 251.863, 108.088
557.7 3	11.3 23	¹³³ Ce(97 m) - 97.261, 76.9, 376.7	587.83 9	100	⁸⁹ Nb(1.18 h) - 507.4, 769.69, 1277.5
557.972 14	14.3 10	¹⁹⁰ Re(3.2 h) - 119.12, 0	587.83 2	0.1108 8	¹³⁵ La(19.5 h) - 480.51, 874.51, 220.94
557.972 14	30.1 9	¹⁹¹ Ir(1.178 d) - 186.718, 605.24, 518.55	588.33 2	19.2 10	²⁰⁷ At(1.80 h) - 814.41, 300.654, 467.12
558.02 3	16.1 4	⁷⁷ Ge(11.30 h) - 264.44, 211.03, 215.50	589.0 5	39 4	⁸⁰ Sr(106.3 m) - 175.4, 553.4, 378.8
558.456 2	3.24 23	¹¹⁴ In(49.51 d) - 725.298	589.3 1	0.42 9	¹⁴⁶ Pm(5.53 y) - 453.88, 735.72, 146.4
559.101 5	45	⁷⁶ As(1.0778 d) - 657.041, 1216.104, 1212.94	590.44 6	12.06 19	¹⁰¹ Pd(8.47 h) - 296.29, 269.67, 24.46
559.101 5	74	⁷⁶ Br(16.2 h) - 657.041, 1853.67, 1216.104	590.88 1	0.069 3	¹⁴⁹ Pm(53.08 h) - 285.95, 859.46, 22.510
560.13 5	5.4 5	²⁴⁸ Pu(10.5 h) - 327.428, 308.222, 376.676	592.074 4	1.318 23	¹⁸⁵ Os(93.6 d) - 646.116, 874.813, 880.523
560.27 4	7	¹⁹⁵ Hg(41.6 h) - 261.75, 387.87, 200.38	592.2	>0.015	²⁴⁸ Bk(23.7 h) - 550.7, 43.38
560.44 2	73	¹²⁰ Ir(81.0 m) - 1523.0, 640.85, 601.11	592.6 1	3.7 4	¹⁶¹ Er(3.21 h) - 826.6, 211.15, 314.77
560.45 3	0.84 6	²⁴⁹ Cm(64.15 m) - 634.31, 368.76, 621.87	593.31 9	0.00228 19	¹²⁷ Te(109 d) - 88.26
561.03 6	2.40 14	⁹² Y(3.54 h) - 934.46, 1405.28, 448.34	593.390	11.26 8	⁴³ K(22.3 h) - 372.760, 617.490, 396.861
561.03 6	>0.0045	⁹² Nb(10.15 d) - 934.46, 912.73, 1847.27	593.390	0.0022 7	⁴³ Sc(3.891 h) - 372.760, 1931.3, 1558.5
561.03 6	100	⁹² Nb(3.47×10 ⁷ y) - 934.46	595.847 6	59 3	⁷⁴ As(17.77 d) - 608.353, 1204.208, 887.19
561.11 7	10.9 6	²³⁸ Am(98 m) - 962.77, 918.69, 605.13	596.14 7	27.9 19	⁷¹ Zn(3.96 h) - 386.28, 487.38, 620.18
561.11 7	0.00015 4	²⁴² Cm(162.8 d) - 44.08, 101.90, 157.42	596.56 13	26	⁶² Zn(9.186 h) - 40.84, 548.35, 507.60
561.67 10	0.013 3	⁹⁵ Nb(34.975 d) - 765.794, 204.117	598.74 5	1.47 6	¹²¹ I(2.12 h) - 212.189, 532.08, 475.28
562.93 2	0.220 3	¹⁵² Eu(9.3116 h) - 841.570, 963.390, 121.7817	599.66 4	1.78 6	¹⁹⁵ Hg(9.9 h) - 779.80, 61.46, 585.13
563.246 5	8.35 4	¹³⁴ Cs(2.0648 y) - 847.025	600.1 1	14.0 7	¹³² I(1.387 h) - 98.0, 22
563.246 5	0.362 6	¹³⁴ La(6.45 m) - 604.721, 1554.946, 1732.12	600.5 1	62 3	¹⁹⁴ Ir(171 d) - 482.833, 328.455, 687.7
563.52 5	10.5 5	¹⁹⁵ Tl(1.16 h) - 884.47, 1363.88, 242.15	600.57 6	18.4 9	²⁴⁰ Np(61.9 m) - 566.34, 973.9, 895.8
564.119 17	71	¹²² Sb(2.7238 d) - 1140.55	600.600 4	17.86 5	¹²⁵ Sb(2.7582 y) - 427.875, 635.954, 463.365
564.119 17	18	¹²² I(3.63 m) - 692.794, 793.278, 683.647	600.66 5	0.00049	²²⁶ Ra(1600 y) - 186.211, 262.27, 414.60
564.397 16	14.7 8	¹¹⁷ Cd(3.36 h) - 1997.33, 1065.98, 1432.91	601.11 2	5.8 12	¹²⁰ Ir(81.0 m) - 560.44, 1523.0, 640.85
565.9 1	3.44 8	¹⁰¹ Pd(8.47 h) - 296.29, 590.44, 269.67	601.450 4	5.88 19	¹⁴⁷ Eu(24.1 d) - 197.299, 121.220, 677.516
566.34 6	25.3 13	²⁴⁰ Np(61.9 m) - 973.9, 600.57, 895.8	601.6 2	0.00049	²⁰⁸ Po(2.898 y) - 291.7, 570.4, 861.9
567.14 3	0.234 9	¹³² Cs(6.479 d) - 667.718, 630.19, 505.79	602.37 14	1.38 7	⁹⁷ Zr(16.91 h) - 743.36, 507.64, 1147.97
567.14 3	15.7 12	¹³² La(4.8 h) - 464.55, 1909.91, 663.07	602.729 3	98.26 23	¹²⁴ Sb(60.20 d) - 1690.983, 722.786, 645.8549
568.80 12	58.0 3	⁹⁶ Nb(23.35 h) - 778.224, 459.88, 849.929	602.729 3	63	¹²⁴ I(4.1760 d) - 1690.983, 722.786, 1509.47
568.84 5	7.1 3	¹⁸⁹ Pt(10.87 h) - 721.41, 94.33, 243.37	603.15 3	5.2 9	¹⁸² Hf(61.5 m) - 344.1, 224.38, 506.60
569.1 2	†91 12	²²⁹ Ac(62.7 m) - 164.522, 261.92, 146.345	603.5 5	4.45 11	¹²⁷ Sb(3.85 d) - 685.7, 473.0, 783.7
569.31 4	0.873 17	⁹⁷ Ru(2.9 d) - 215.718, 324.48, 460.57	604.04 2	0.304 8	⁹⁵ Tc(20.0 h) - 765.794, 1073.71, 947.67
569.310 14	13.7 10	¹⁹⁹ Re(3.2 h) - 119.12, 0	604.41464 21	8.23 6	¹⁹² Ir(73.831 d) - 205.79549, 484.5780, 374.4852
569.310 14	28.5 9	¹⁹¹ Ir(1.178 d) - 186.718, 605.24, 518.55	604.721 2	97.62 3	¹³⁴ Cs(2.0648 y) - 847.025
569.331 3	15.38 6	¹³⁴ Cs(2.0648 y) - 847.025	604.721 2	5.04 10	¹³⁴ La(6.45 m) - 1554.946, 563.246, 1732.12

8th Edition of the Table of Isotopes: 1998 Update - Energy-Ordered Decay Gamma-Ray Table

Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
605.13 9	7.6 5	²³⁸ Am(98 m) - 962.77, 918.69, 561.11	634.07 11	37 6	¹⁴⁶ Eu(4.59 d) - 747.2, 633.03, 1533.8
605.13 9	0.00011 3	²⁴² Cm(162.8 d) - 44.08, 101.90, 157.42	634.31 2	1.5 1	²⁴⁹ Cm(64.15 m) - 560.45, 368.76, 621.87
605.24 5	14.9 10	¹⁹⁹ Re(3.2 h) - 119.12, 0	634.32 10	~0.036	⁷⁴ As(17.77 d) - 595.847, 608.353, 1204.208
605.24 5	39.9 14	¹⁹⁰ Ir(11.78 d) - 186.718, 518.55, 557.972	634.78 10	15.4 5	⁷⁴ As(17.77 d) - 595.847, 608.353, 1204.208
606.09 10	8.12 20	⁷⁹ Kr(35.04 h) - 261.35, 397.54, 306.47	635.5 1	9.8 10	¹⁹⁶ Tl(1.84 h) - 426.0, 610.5, 1495.8
606.76 2	18.8 5	¹³⁵ Ce(17.7 h) - 265.56, 300.07, 518.05	635.5 1	51 8	¹⁹⁶ Tl(1.41 h) - 426.0, 695.6, 505.2
606.88 15	3.1 3	¹¹² Ag(3.130 h) - 617.516, 1387.67, 694.863	635.6 4	>3.8	¹⁸⁶ Pt(2.0 h) - 276.7, 611.5, 366.7
608.151 12	2.90 9	¹³⁵ Xe(9.14 h) - 249.770, 408.009, 158.260	635.954 5	11.31 9	¹²⁵ Sb(2.7582 y) - 427.875, 600.600, 463.365
608.353 5	0.552 12	⁷⁴ As(17.77 d) - 595.847, 1204.208, 887.19	636.11 3	1.45 5	¹⁷³ Lu(1.37 y) - 272.105, 78.63, 100.724
610.0 8	1.47 21	¹³² I(1.387 h) - 98.0, 22	636.26 2	36 2	¹²⁸ Sb(9.01 h) - 753.82, 743.22, 314.12
610.062 2	44.2 10	¹⁷² Er(49.3 h) - 407.338, 68.107, 446.025	636.389 14	6.2 3	¹⁸⁶ Ir(16.64 h) - 296.911, 137.155, 434.849
610.33 20	5.75 5	¹⁰³ Ru(39.26 d) - 497.080, 443.799, 557.039	636.4 3	10.1 7	¹⁹⁸ Tl(5.3 h) - 411.80205, 675.8836, 1200.6
610.5 5	11.9 12	¹⁹⁶ Tl(1.84 h) - 426.0, 635.5, 1495.8	636.4 3	57 5	¹⁹⁸ Tl(1.87 h) - 411.80205, 587.2, 226.2
610.5 5	5.1 5	¹⁹⁶ Tl(1.41 h) - 426.0, 635.5, 695.6	636.989 4	7.17 9	¹³¹ I(8.02070 d) - 364.489, 284.305, 80.185
610.68 11	3.93 15	¹⁸⁷ Ir(10.5 h) - 912.95, 427.12, 400.89	637.9 2	0.753 21	¹¹⁶ Te(2.49 h) - 93.88, 628.66, 103.01
611.293 8	1.021 11	¹⁴⁸ Pm(5.370 d) - 1465.12, 550.284, 914.85	638.03 8	0.00095 4	¹¹³ Sn(115.09 d) - 391.690, 255.06, 382.6
611.293 8	20.5 4	¹⁴⁸ Eu(54.5 d) - 550.284, 629.987, 553.231	638.050 16	0.72 4	¹⁵⁰ Tb(3.48 h) - 511, 496.242, 3383.6
611.5 4	6.0 6	¹⁸⁶ Pt(2.0 h) - 276.7, 635.6, 366.7	638.12 23	0.232 25	¹⁶⁴ Yb(75.8 m) - 40.928, 675.41, 390.6
612.00 10	5.7 3	⁸⁶ Zr(16.5 h) - 242.80, 29.10, 135.6	639.30 14	6.4 13	¹⁸¹ Re(19.9 h) - 365.57, 360.70, 953.42
612.46564 20	4.34 4	¹⁹² Au(4.94 h) - 316.50791, 295.95827, 2236.89	639.6 1	1.50 15	⁸⁰ Rb(34 s) - 616.6, 703.9, 1256.3
613.493 13	0.351 11	¹²⁸ Cs(3.66 m) - 442.901, 526.557, 1140.079	640.85 5	9.1 4	¹²⁰ I(81.0 m) - 560.44, 1523.0, 601.11
613.725 3	54	⁷⁸ As(90.7 m) - 694.916, 1308.59, 828.189	641.285 9	47	¹⁴² La(91.1 m) - 2397.8, 2542.7, 894.9
614.0 8	2.5 7	¹³² I(1.387 h) - 98.0, 22	641.285 9	0.0022	¹⁴² Pr(19.12 h)
614.281 6	89.8 18	¹⁰⁸ Ag(418 y) - 722.938, 433.937	641.4 5	0.384 20	¹⁴² Pm(40.5 s) - 1575.85, 2384.3, 2845.9
616.08 14	93.10 3	¹⁹⁹ Ir(3.25 h) - 502.53, 361.136, 186.718	641.68 5	25.9 6	¹¹⁰ In(4.9 h) - 657.7622, 884.685, 937.493
616.174 24	20.2 14	¹⁰⁶ Rh(131 m) - 511.842, 1045.83, 717.24	642.35 9	0.9	²³⁶ Np(22.5 h) - 687.59, 538.11, 104.234
616.174 24	21.6 6	¹⁰⁶ Ag(8.28 d) - 511.842, 1045.83, 717.24	642.35 9	1.3×10 ⁻⁵ 1	²⁴⁰ Pu(6563 y) - 45.242, 104.234, 160.308
616.6 1	25	⁸⁰ Rb(34 s) - 703.9, 639.6, 1256.3	643.5 5	0.00024	²³⁶ Pu(2.858 y) - 47.574, 108.96, 166.0
617.34 10	0.011 4	¹²² Sb(2.7238 d) - 1140.55	644.01 4	84	¹¹⁹ Te(16.03 h) - 699.85, 1749.65, 1413.19
617.490	79.2 6	⁴³ K(22.3 h) - 372.760, 396.861, 593.390	644.55 7	11.1 5	¹⁰⁵ Ag(41.29 d) - 344.520, 280.41, 443.37
617.516 11	43	¹¹² Ag(3.130 h) - 1387.67, 606.88, 694.863	645.157 16	1.18 3	¹⁹⁴ Ir(19.28 h) - 328.455, 293.545, 1150.76
617.7 2	0.114 6	⁷⁵ Ge(82.78 m) - 264.6584, 198.6031, 468.8	645.40 5	†1160 50	¹⁶⁰ Ho(5.02 h) - 728.18, 879.383, 962.317
617.8 3	12.0 10	⁹⁹ Rh(4.7 h) - 340.71, 1261.2, 936.7	645.50 10	0.0054 9	²²⁴ Ra(3.66 d) - 240.986, 292.70, 422.04
618.01 3	98.6 10	¹⁴⁴ Pm(363 d) - 696.510, 476.8, 778.5	645.8549 20	7.456 24	¹²⁴ Sb(60.20 d) - 602.729, 1690.983, 722.786
618.13 10	4.2 5	⁹⁹ Rh(16.1 d) - 528.24, 353.05, 89.65	646.116 9	78.0 8	¹⁸⁵ Os(93.6 d) - 874.813, 880.523, 717.424
618.241 11	0.526 19	¹³³ La(3.912 h) - 278.835, 302.353, 290.06	646.8 1	3.8×10 ⁻⁶ 19	¹¹³ Sn(115.09 d) - 391.690, 255.06, 638.03
618.361 20	6.28 14	¹⁸⁷ W(23.72 h) - 685.774, 479.531, 72.001	647.3 1	0.024	¹⁰⁹ Pd(13.7012 h) - 88.04, 311.4, 781.4
619.106 4	43.4 4	⁸² Br(35.30 h) - 776.517, 554.348, 698.374	647.3 2	91 3	¹⁹⁶ Ir(1.40 h) - 393.346, 521.175, 447.1
619.106 4	37.976 8	⁸² Rb(6.472 h) - 776.517, 554.348, 1044.002	648.70 7	0.843 22	²¹⁰ Rn(2.4 h) - 458.25, 570.95, 72.70
619.303 12	3.55 18	¹⁵⁷ Eu(15.18 h) - 63.929, 410.723, 370.509	648.80 2	28.4 20	²⁵⁴ Es(39.3 d) - 211.80, 177.30, 71.30
620.18 4	57 3	⁷¹ Zn(3.96 h) - 386.28, 487.38, 511.56	648.9 1	0.0124 10	⁸³ Br(2.40 h) - 529.635, 520.39, 552.63
620.26 13	0.0110 8	¹¹¹ Ag(7.45 d) - 342.13, 245.395, 96.75	649.42 5	2.6	²⁰⁶ Hg(8.15 m) - 304.896, 344.52
620.6 2	0.27 4	⁸⁶ Zr(16.5 h) - 242.80, 29.10, 612.00	649.42 5	3.8	²¹⁰ Bi(3.04×10 ⁶ y) - 265.832, 304.896, 344.52
620.7 1	18	¹⁷⁰ Hf(16.01 h) - 164.71, 120.19, 572.9	649.564 11	10.9 6	¹⁵⁴ Tb(9.4 h) - 123.071, 247.925, 540.18
621.6 6	0.006 2	¹¹¹ Ag(7.45 d) - 342.13, 245.395, 96.75	650.91 13	0.00028 10	¹²⁷ Te(109 d) - 88.26
621.87 6	0.182 13	²⁴⁹ Cm(64.15 m) - 634.31, 560.45, 368.76	652.12 2	16.25 22	¹⁴⁹ Tb(4.118 h) - 352.24, 164.98, 388.57
622.53 8	0.268 20	²⁰⁴ Pb(67.2 m) - 899.15, 911.78, 374.72	652.3 3	2.97 17	⁹¹ Sr(9.63 h) - 1024.3, 749.8, 652.9
623.7 3	5.5 3	¹⁰⁹ In(4.2 h) - 203.5, 1148.9, 426.25	652.43 4	100	⁹⁸ Tc(4.2×10 ⁶ y) - 745.36
626.77 3	17.8 5	⁹⁵ Ru(1.643 h) - 336.43, 1096.76, 1178.66	652.80 6	0.143 10	²⁴⁹ Cm(64.15 m) - 634.31, 560.45, 368.76
627.72 10	32.6 10	⁸⁶ Y(14.74 h) - 1076.64, 1153.01, 777.35	652.9 2	8.0 3	⁹¹ Sr(9.63 h) - 1024.3, 749.8, 925.8
628.05 4	4.6 4	¹⁰² Rh(207 d) - 475.070, 1103.16, 468.59	653.512 25	15.0 7	¹⁴⁵ Eu(5.93 d) - 893.73, 1658.53, 1997.00
628.6 2	8.5×10 ⁻⁵ 19	¹²⁷ Te(109 d) - 88.26	654.831 13	8.0 4	¹⁴⁹ Nd(1.728 h) - 211.309, 114.314, 270.166
628.66 3	3.212 21	¹¹⁶ Te(2.49 h) - 93.88, 103.01, 637.9	656.008 4	10.77 18	⁶¹ Cu(3.333 h) - 282.956, 67.412, 1185.234
629.1 2	24.0 12	²⁰¹ Bi(108 m) - 936.2, 1014.1, 786.4	657.041 5	6.2 3	⁷⁶ As(1.0778 d) - 559.101, 1216.104, 1212.94
629.95 3	24.8 5	⁷² Ga(14.10 h) - 834.01, 2201.69, 2507.82	657.041 5	15.9 7	⁷⁶ Br(16.2 h) - 559.101, 1853.67, 1216.104
629.95 3	7.92 14	⁷² As(26.0 h) - 834.01, 1463.95, 1050.73	657.49 3	32.4 15	²⁰² Pb(3.53 h) - 490.47, 459.72, 389.94
629.987 8	89	¹⁴⁸ Pm(41.29 d) - 75.7, 62.2	657.49 3	60.6 18	²⁰² Bi(1.72 h) - 960.67, 422.18, 954.45
629.987 8	71.9 16	¹⁴⁸ Eu(54.5 d) - 550.284, 611.293, 553.231	657.7622 21	94.0 4	¹¹⁰ Ag(249.79 d) - 116.48, 1.113
630.102 14	2.7 3	²⁴⁹ Pu(10.5 h) - 327.428, 560.13, 308.222	657.7622 21	98 5	¹¹⁰ In(69.1 m) - 2129.53, 2211.49, 2317.54
630.19 2	13.3 4	¹³² I(2.295 h) - 667.718, 772.60, 954.55	657.7622 21	98.3 20	¹¹⁰ In(4.9 h) - 884.685, 937.493, 707.40
630.19 2	0.95 3	¹³² Cs(6.479 d) - 667.718, 505.79, 1317.927	658.08 6	98	⁹⁷ Nb(72.1 m) - 1024.49, 1268.68, 1515.59
630.354 14	0.0230 25	¹⁸⁶ Re(90.64 h) - 122.58	658.89 6	0.0123 10	¹²⁷ Te(109 d) - 88.26
630.354 14	18.0 14	¹⁸⁶ Ir(2.0 h) - 137.155, 767.508, 773.276	659.1 3	>26	⁸³ Sr(32.41 h) - 762.65, 381.53, 418.37
631.28 5	55.9 20	¹⁰² Rh(2.9 y) - 475.070, 697.49, 766.84	660.040 17	89 4	²⁰⁸ At(1.63 h) - 686.527, 177.595, 845.044
632.56 10	0.010	¹³³ Ba(38.9 h)	661.660 3	85.1 2	¹³⁷ Cs(30.07 y)
632.76 10	1.01 9	¹¹¹ Pd(5.5 h) - 172.18	662.06 5	0.0259 15	¹⁴¹ La(3.92 h) - 1354.52, 1693.3, 2267.0
632.765 8	0.624 19	¹³³ La(3.912 h) - 278.835, 302.353, 290.06	662.2 1	†266 30	¹⁷¹ Hf(12.1 h) - 122.0, 347.18, 1071.8
632.99 2	1.25 4	¹⁸⁸ Re(16.98 h) - 155.032, 477.99, 931.34	663.07 3	9.0 6	¹³² La(4.8 h) - 464.55, 567.14, 1909.91
632.99 2	18 3	¹⁸⁸ Ir(41.5 h) - 155.032, 2214.62, 477.99	664.571 15	5.69 4	¹⁴³ Ce(33.039 h) - 293.266, 57.356, 721.929
633.03 14	2.15 20	¹⁴⁸ Pm(5.53 y) - 453.88, 735.72, 589.3	666.331 12	100	¹²⁶ Sb(12.46 d) - 695.03, 414.81, 720.64
633.03 14	43 7	¹⁴⁶ Eu(4.59 d) - 747.2, 634.07, 1533.8	666.331 12	33.1 7	¹²⁶ I(13.11 d) - 753.819, 1420.17, 2045.17
633.415 20	0.568 12	¹⁶⁵ Dy(2.334 h) - 94.700, 361.68, 715.328	667.404 20	11.04 19	¹⁷¹ Lu(8.24 d) - 739.78, 19.394, 75.878

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Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
667.718 3	99	¹³² I(2.295 h) - 772.60, 954.55, 522.65	720.22 17	0.154 12	⁴⁵ Ti(184.8 m) - 1408.6, 1662.4, 425.1
667.718 3	98	¹³² Cs(6.479 d) - 630.19, 505.79, 1317.927	720.24 6	6.5 3	¹⁹⁹ Pb(90 m) - 366.90, 353.39, 1135.04
668.54 3	96 3	¹³⁰ I(12.36 h) - 536.09, 739.48, 418.01	720.64 4	53.8 24	¹²⁶ Sb(12.46 d) - 695.03, 666.331, 414.81
669.60 7	0.0035 6	²¹¹ At(7.214 h) - 687.0, 742.64	721.41 3	9.3 4	¹⁸⁹ Pt(10.87 h) - 94.33, 568.84, 243.37
670.75 3	11.4 8	²⁰⁴ Bi(11.22 h) - 899.15, 374.72, 984.02	721.929 13	5.39 4	¹⁴³ Ce(33.039 h) - 293.266, 57.356, 664.571
672.3 1	0.87 3	¹¹³ Ag(5.37 h) - 298.58, 258.8, 316.3	722.12 8	7.7 5	¹⁵⁴ Tb(21.5 h) - 123.071, 1274.436, 2187.10
674.1 1	45	²¹¹ Rn(14.6 h) - 68.573, 167.90, 236.48	722.786 4	10.81 4	¹²⁴ Sb(60.20 d) - 602.729, 1690.983, 645.8549
674.19 3	6.8 5	¹⁹¹ Au(3.18 h) - 586.45, 277.88, 283.91	722.786 4	10.35 11	¹²⁴ I(4.1760 d) - 602.729, 1690.983, 1509.47
675.15 2	6.8 5	²⁰⁷ At(1.80 h) - 814.41, 588.33, 300.654	722.911 5	1.773 25	¹³¹ I(8.02070 d) - 364.489, 636.989, 284.305
675.41 22	0.38 3	¹⁶⁴ Yb(75.8 m) - 40.928, 390.6, 446.74	722.938 8	90.8 18	¹⁰⁸ Ag(418 y) - 433.937, 614.281
675.795 5	0.514 7	¹⁴⁵ Pr(5.984 h) - 748.278, 72.500, 978.969	723.304 5	20.22 9	¹⁵⁴ Eu(8.593 y) - 184.810, 81.99
675.8836 7	0.804 3	¹⁹⁸ Au(2.69517 d) - 411.80205, 1087.684	724.199 5	44.17 13	⁹⁵ Zr(64.02 d) - 756.729, 235.69
675.8836 7	11	¹⁹⁸ Tl(5.3 h) - 411.80205, 636.4, 1200.6	724.21 8	47	¹⁰⁵ Ru(4.44 h) - 469.37, 676.36, 316.44
676.36 8	15.7 5	¹⁰⁵ Ru(4.44 h) - 724.21, 469.37, 316.44	725.298 9	3.24 23	¹¹⁴ In(49.51 d) - 558.456
677.516 7	9.8 3	¹⁴⁷ Eu(24.1 d) - 197.299, 121.220, 1077.043	725.673 9	32.7 3	¹⁴⁸ Pm(41.29 d) - 75.7, 62.2
678.4 1	28.9 14	²¹¹ Rn(14.6 h) - 68.573, 167.90, 236.48	725.673 9	12.7 3	¹⁴⁸ Eu(54.5 d) - 550.284, 629.987, 611.293
679.0 10	53	²⁴⁶ Am(39 m) - 205.0, 152.9, 756	727.330 9	6.58 5	²¹² Bi(60.55 m) - 1620.50, 785.37, 1078.62
680.2 1	0.658 14	⁹³ Y(10.18 h) - 266.9, 947.1, 1917.8	728.18 2	†2200 60	¹⁶⁰ Ho(5.02 h) - 879.383, 962.317, 966.171
680.516 10	0.753 18	²⁰³ Pb(51.873 h) - 279.1967, 401.323	729.57 5	0.72 3	¹²⁹ Te(33.6 d) - 105.50
680.6 1	0.695 16	¹¹³ Ag(5.37 h) - 298.58, 258.8, 316.3	731.812 13	0.007 3	⁸⁵ Kr(4.480 h) - 304.87
681.0 2	0.0039 3	⁸³ Br(2.40 h) - 529.635, 520.39, 552.63	731.812 13	0.0147 8	⁸⁵ Sr(67.63 m) - 151.159, 129.820, 450.85
681.8 2	4.4 5	¹²⁸ Ba(100 m) - 233.6, 257.6, 241.0	735.72 6	22.5 15	¹⁴⁶ Pm(5.53 y) - 453.88, 589.3, 146.4
682.0	0.32 3	⁹⁰ Y(3.19 h) - 202.53, 479.51	737.455 15	9.60 19	¹⁵⁰ Eu(36.9 y) - 333.971, 439.401, 584.274
683.647 19	0.796 16	¹²² I(3.63 m) - 564.119, 692.794, 793.278	737.96 8	35	¹³⁹ Nd(5.50 h) - 113.94, 982.2, 708.06
684.672 9	99.7 20	⁹³ Mo(6.85 h) - 949.82, 689.07, 541.22	739.42 5	4.23 24	⁷³ Ga(4.86 h) - 297.32, 325.70, 767.8
684.88 7	9.4 5	¹⁹⁵ Ir(3.8 h) - 100	739.48 3	82 3	¹³⁰ I(12.36 h) - 536.09, 668.54, 418.01
685.7 5	37	¹²⁷ Sb(3.85 d) - 473.0, 783.7, 252.4	739.50 2	12.13 12	⁹⁹ Mo(65.94 h) - 140.511, 181.063, 777.921
685.774 18	27.3 6	¹⁸⁷ W(23.72 h) - 479.531, 77.001, 134.243	739.78 2	47.8 7	¹⁷¹ Lu(8.24 d) - 19.394, 667.404, 75.878
686.527 20	98	²⁰⁸ At(1.63 h) - 660.040, 172.595, 845.044	741.356 3	12.31 5	¹⁶⁸ Tm(93.1 d) - 198.241, 815.990, 447.515
687.0	0.261 6	²¹¹ At(7.214 h) - 669.60, 742.64	741.98 4	1.2×10 ⁻⁶ 4	¹⁴³ Pr(13.57 d)
687.59 9	0.250 5	²³⁸ Np(22.5 h) - 642.35, 538.11, 104.234	741.98 4	39	¹⁴³ Pm(265 d)
687.7 1	59 3	¹⁹⁴ Ir(171 d) - 482.833, 328.455, 600.5	742.64 8	28.2 4	²⁰⁷ Po(5.80 h) - 992.33, 911.79, 405.75
688.68 2	12.3 9	²⁵⁴ Es(39.3 h) - 211.80, 177.30, 71.30	742.64 8	0.0010 3	²¹¹ At(7.214 h) - 687.0, 669.60
689.07 5	0.070 10	⁹³ Mo(6.85 h) - 949.82, 541.22, 385.31	742.81 3	5.2×10 ⁻⁶ 2	²³⁸ Pu(87.7 y) - 43.498, 99.853, 152.720
692.03 2	0.157 9	⁵⁷ Co(271.79 d) - 122.0614, 136.4743, 14.41300	743.22 2	100 5	¹²⁸ Sb(9.01 h) - 753.82, 314.12, 526.57
692.37 8	4.27 16	²⁰¹ Pb(9.33 h) - 331.19, 361.27, 945.96	743.36 3	93	⁹⁷ Zr(16.91 h) - 507.64, 1147.97, 355.40
692.794 17	3.85 13	¹²² Sb(2.7238 d) - 1140.55	743.971 5	66 18	²⁴⁴ Am(10.1 h) - 897.848, 153.863, 99.383
692.794 17	1.355 25	¹²² I(3.63 m) - 564.119, 793.278, 683.647	744.233 13	90.0 8	⁵² Mn(5.591 d) - 1434.068, 935.538, 1333.649
693.79 2	24.3 17	²⁵⁴ Es(39.3 h) - 211.80, 177.30, 71.30	745.36 4	102 7	⁹⁸ Tc(4.2×10 ⁶ y) - 652.43
694.0 2	0.55 10	¹⁴⁴ Pm(363 d) - 696.510, 618.01, 476.8	745.9 1	0.207 17	¹⁷⁷ Ta(56.56 h) - 112.9498, 208.3664, 1057.8
694.19 7	0.6	¹¹¹ Pd(5.5 h) - 172.18	747.2 1	34.0 16	¹⁴⁶ Pm(5.53 y) - 453.88, 735.72, 589.3
694.4 10	43	¹⁴⁷ Tb(1.7 h) - 1152.4, 139.9, 119.7	747.2 1	98	¹⁴⁶ Eu(4.59 d) - 633.03, 634.07, 1533.8
694.863 12	3.0 3	¹¹² Ag(3.130 h) - 617.516, 1387.67, 606.88	748.278 5	0.5250 21	¹⁴⁵ Pr(5.984 h) - 675.795, 72.500, 978.969
694.916 4	16.7 11	⁷⁸ As(90.7 m) - 613.725, 1308.59, 828.189	748.601 2	8.22 10	¹⁴⁹ Gd(9.28 d) - 149.735, 298.634, 346.651
695.03 2	100	¹²⁶ Sb(12.46 d) - 666.331, 414.81, 720.64	749.8 1	23.61 17	⁹¹ Sr(9.63 h) - 1024.3, 652.9, 925.8
695.6 1	41 6	¹⁹⁹ Tl(1.41 h) - 426.0, 635.5, 505.2	749.95 3	49.5 12	⁵⁶ Ni(6.077 d) - 158.38, 811.85, 269.50
695.88 6	3.071 12	¹²⁹ Te(33.6 d) - 105.50	751.637 18	0.032 3	¹⁴⁰ Pr(3.39 m) - 1596.210, 306.9, 925.189
696.510 5	1.3	¹⁴⁴ Pr(17.28 m) - 2185.662, 1489.160, 1387.9	753.819 13	4.16 9	¹²⁶ I(13.11 d) - 666.331, 1420.17, 2045.17
696.510 5	99	¹⁴⁴ Pm(363 d) - 618.01, 476.8, 778.5	753.82 2	100 5	¹²⁸ Sb(9.01 h) - 743.22, 314.12, 526.57
696.7 3	29 7	¹²⁶ Sb(12.46 d) - 695.03, 666.331, 414.81	755 2	†10	²⁴³ Bk(4.5 h) - 187.1, 536, 146.4
697.49 8	43.9 20	¹⁰² Rh(2.9 y) - 475.070, 631.28, 766.84	756 1	13.3 11	²⁴⁶ Am(39 m) - 679.0, 205.0, 152.9
698.374 5	28.49 25	⁸² Br(35.30 h) - 776.517, 554.348, 619.106	756.729 12	54	⁹⁵ Zr(64.02 d) - 724.199, 235.69
698.374 5	26.3 7	¹⁸² Rb(6.472 h) - 776.517, 554.348, 619.106	758.358 10	0.0443 17	¹⁹⁶ Au(6.183 d) - 355.684, 332.983, 1091.331
699.27 4	0.0699 21	¹⁵² Eu(9.3116 h) - 841.570, 963.390, 121.7817	759.50 10	66 5	²⁰⁰ Au(18.7 h) - 332.82, 146.07, 59.97
699.85 6	10.1 5	¹¹⁹ Te(16.03 h) - 644.01, 1749.65, 1413.19	761.4 1	0.539 17	²¹⁰ Rn(2.4 h) - 458.25, 648.70, 570.95
702.626 19	97.9 20	⁹⁴ Nb(2.03×10 ⁴ y) - 871.082	762.3 1	0.192 9	¹³⁷ Ce(34.4 h) - 824.82, 169.26, 835.38
702.626 19	99.6 18	⁹⁴ Tc(293 m) - 871.082, 849.74, 916.10	762.49 2	11.5 3	²⁰⁴ Po(3.53 h) - 883.984, 270.068, 1016.31
703.44 3	31	²⁰⁵ Bi(15.31 d) - 1764.36, 987.62, 1043.72	762.65 10	30	⁸³ Sr(32.41 h) - 659.1, 381.53, 418.37
703.9 2	1.88 20	⁸⁰ Rb(34 s) - 616.6, 639.6, 1256.3	763.944 3	22.14 9	¹¹⁰ Ag(249.79 d) - 116.48, 1.113
706.40 20	0.0253 5	⁵⁷ Co(271.79 d) - 122.0614, 136.4743, 14.41300	764.79 5	1.26 10	¹⁷⁴ Ta(1.05 h) - 206.50, 91.00, 1205.92
707.40 2	29.5 10	¹¹⁰ In(4.9 h) - 657.7622, 884.685, 937.493	765.794 7	100	⁹⁵ Nb(34.975 d) - 204.117, 561.67
708.06 6	26.4 11	¹³⁹ Nd(5.50 h) - 113.94, 737.96, 982.2	765.794 7	93.82 19	⁹⁵ Tc(20.0 h) - 1073.71, 947.67, 869.60
709.17 7	5.2 4	¹⁸⁷ Pt(2.35 h) - 106.46, 201.52, 110.04	765.81 10	11.3 6	¹⁴⁷ Gd(38.06 h) - 229.32, 396.00, 929.01
710.50 8	5	¹⁷⁸ Ta(8.09 h) - 1159.28, 88.34, 1224.93	766.38 2	2.2×10 ⁻⁵ 2	²³⁸ Pu(87.7 y) - 43.498, 99.853, 152.720
711.683 8	55.32 22	¹⁶⁶ Ho(1.20×10 ³ y) - 184.410, 810.276, 280.459	766.84 6	33.9 20	¹⁰² Rh(2.9 y) - 475.070, 631.28, 697.49
715.328 20	0.534 11	¹⁶⁵ Dy(2.334 h) - 94.700, 361.68, 633.415	767.1 3	0.191 13	⁴⁷ Ca(4.536 d) - 1297.09, 489.23, 807.86
717.24 6	28.9 15	¹⁰⁶ Rh(131 m) - 511.842, 1045.83, 450.97	767.40 19	3.6 4	⁸⁵ Y(4.86 h) - 231.67, 2123.8, 535.61
717.24 6	28.9 8	¹⁰⁶ Ag(8.28 d) - 511.842, 1045.83, 450.97	767.508 14	0.0255 25	¹⁸⁶ Re(90.64 h) - 122.58
717.424 12	3.94 4	¹⁸⁵ Os(93.6 d) - 646.116, 874.813, 880.523	767.508 14	21.2 18	¹⁸⁶ Ir(2.0 h) - 137.155, 630.354, 773.276
717.72 8	4.05 22	¹⁵¹ Pm(28.40 h) - 340.08, 167.75, 275.21	767.72 8	65.7 19	¹⁰⁴ Ag(62.2 m) - 555.796, 941.7, 926.2
719.46 17	0.091 9	⁹⁷ Nb(72.1 m) - 658.08, 1024.49, 1268.68	767.8 1	1.44 8	⁷³ Ga(4.86 h) - 297.32, 325.70, 739.42
719.7 7	65	¹¹⁷ Te(62 m) - 1716.4, 2300.0, 1090.7	768.91 8	1.25 10	¹⁶⁴ Tm(2.0 m) - 91.40, 1154.66, 208.08

8th Edition of the Table of Isotopes: 1998 Update - Energy-Ordered Decay Gamma-Ray Table

Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
769.69 ¹⁹	6.5 ⁶	⁸⁹ Nb(1.18 h) - 587.83, 507.4, 1277.5	815.772 ¹⁹	23.28 ¹⁹	¹⁴⁰ La(1.6781 d) - 1596.210, 487.021, 328.762
770.6 2	0.0030 3	⁶⁵ Zn(244.26 d) - 1115.546, 344.95	815.990 4	48.99 ¹⁶	¹⁶⁸ Tm(93.1 d) - 198.241, 447.515, 184.285
772.60 ¹	75.6 ¹³	¹³² I(2.295 h) - 667.718, 954.55, 522.65	817.04 ⁵	0.093 3	¹²⁹ Te(33.6 d) - 105.50
773.276 ¹⁴	9.1 3	¹⁸⁶ Ir(16.64 h) - 296.911, 137.155, 434.849	817.89 ¹⁰	6.4×10 ⁻⁵ ⁵	²⁴⁴ Cm(18.10 y) - 42.824, 98.860, 152.63
773.276 ¹⁴	13.5 ¹²	¹⁸⁸ Ir(2.0 h) - 137.155, 767.508, 630.354	818.514 ¹²	100	¹³⁶ Cs(13.16 d) - 1048.073, 340.547, 1235.362
773.67 3	49.9 5	¹³¹ Te(30 h) - 182.25	819.187 ¹³	7.45 ¹⁰	²³² Pa(1.31 d) - 969.315, 894.351, 150.059
776.517 ³	83.5 ⁸	⁸² Br(35.30 h) - 554.348, 619.106, 698.374	820.3 3	30	²⁰³ Bi(11.76 h) - 825.2, 896.9, 1847.4
776.517 ³	84	⁸² Rb(6.472 h) - 554.348, 619.106, 1044.002	820.624 ⁵	0.00037 ²¹	⁹⁵ Nb(86.6 h) - 235.69
777.35 ¹⁰	22.4 ⁶	⁸⁶ Y(14.74 h) - 1076.64, 627.72, 1153.01	820.624 ⁵	4.712 ⁶	⁹⁵ Tc(61 d) - 204.117, 582.082, 835.149
777.921 ²⁰	4.26 ⁵	⁹⁹ Mo(65.94 h) - 140.511, 739.50, 181.063	822.48 5	4.28 ¹⁶	¹²⁵ Sn(9.64 d) - 1067.10, 1089.15, 915.55
778.224 ¹⁵	96.45 ¹⁹	⁹⁶ Nb(23.35 h) - 568.80, 459.88, 849.929	822.6 1	20.1 ¹⁰	¹⁰⁰ Rh(20.8 h) - 539.59, 2376.1, 1553.4
778.224 ¹⁵	100	⁹⁶ Tc(4.28 d) - 849.929, 812.581, 1126.965	823.1 4	10.9 ²³	¹²⁷ Sn(2.10 h) - 1114.3, 1095.6, 805.9
778.5 1	1.51 ⁵	¹⁴⁴ Pm(363 d) - 696.510, 618.01, 476.8	824.82 ¹²	0.44	¹³⁷ Ce(34.4 h) - 169.26, 762.3, 835.38
778.817 ¹⁰	18.9 4	¹⁶⁸ Tm(7.70 h) - 2052.36, 184.410, 1273.540	825.2 1	14.6 7	²⁰³ Bi(11.76 h) - 825.2, 896.9, 1847.4
778.9040 ¹⁸	12.942 ¹⁹	¹⁵² Eu(13.537 y) - 121.7817, 1408.006, 964.079	826.06 3	0.0076 ⁸	⁶⁰ Co(5.2714 y) - 1332.501, 1173.237, 346.93
778.9040 ¹⁸	5.8 4	¹⁵² Tb(17.5 h) - 344.2785, 586.2648, 271.131	826.6 1	64 3	¹⁶¹ Er(3.21 h) - 211.15, 592.6, 314.77
779.80 5	7	¹⁹⁵ Hg(9.9 h) - 61.46, 585.13, 180.11	826.77 ²²	20	¹⁸¹ Os(105 m) - 238.75, 118.03, 831.62
780.14 4	9.56 ¹⁸	¹⁵⁸ Tb(180 y) - 944.09, 962.06, 79.5104	827.81 ²⁰	†57 ¹⁰	¹⁹³ Hg(3.80 h) - 861.11, 1118.84, 789.21
780.681 ²⁰	4.36 6	¹⁷¹ Lu(8.24 d) - 739.78, 19.394, 667.404	827.86 ¹⁰	10.3 5	¹³⁹ Nd(5.50 h) - 113.94, 737.96, 982.2
781.4 2	0.0112 ¹²	²⁰⁹ Pd(13.7012 h) - 88.04, 311.4, 647.3	828.189 ¹³	8.1 5	⁷⁸ As(90.7 m) - 613.725, 694.916, 1308.59
781.9 1	83.5 ²²	²⁰⁹ At(5.41 h) - 545.0, 790.2, 195.0	828.320 ¹²	10.8 6	²⁰⁰ Tl(26.1 h) - 367.943, 1205.717, 579.298
783.29 9	17	⁵⁰ V(1.4×10 ¹⁷ y) - 1553.768	828.82 3	5.5 9	²⁵⁰ Es(2.22 h) - 989.12, 1031.85, 1167.25
783.59 2	10.6 3	¹³⁵ Ce(17.7 h) - 265.56, 300.07, 606.76	828.82 3	72 4	²⁵⁰ Es(8.6 h) - 303.41, 349.4, 383.7
783.7 5	15.1 3	¹²⁷ Sb(3.85 d) - 685.7, 473.0, 252.4	828.93 3	0.17	¹⁰⁷ Cd(6.50 h) - 93.124, 796.462, 324.81
783.754 ¹⁴	66 7	¹⁸³ Hf(1.067 h) - 73.174, 459.069, 397.859	829.49 3	0.403 ¹⁰	¹⁸⁸ Re(16.98 h) - 155.032, 632.99, 477.99
784.55 8	9.64 ²⁴	¹³³ Ce(4.9 h) - 477.22, 510.36, 58.39	831.62 ²²	7.7 ¹⁰	¹⁸¹ Os(105 m) - 238.75, 826.77, 118.03
785.09 6	18.3 ¹⁰	²⁵² Es(471.7 d) - 924.12, 800.01, 139.03	831.92 ²⁵	11.9 5	¹⁵⁰ Pm(2.68 h) - 333.971, 1324.51, 1165.74
785.37 8	1.102 ¹³	²¹² Bi(60.55 m) - 727.330, 1620.50, 1078.62	833.3 1	0.63 4	²⁵¹ Fm(5.30 h) - 425.4, 480.4, 358.3
786.198 4	0.0158 ²¹	⁹⁵ Nb(86.6 h) - 235.69	833.40 7	0.0332 ²⁵	¹⁴⁹ Pm(53.08 h) - 285.95, 859.46, 590.88
786.198 4	8.66 4	⁹⁵ Tc(61 d) - 204.117, 582.082, 835.149	833.50 5	0.16 4	⁶⁶ Cu(5.088 m) - 1039.30, 1333.00, 1872.94
786.4 5	9.5 5	²⁰⁷ Pb(108 m) - 629.1, 936.2, 1014.1	833.50 5	5.89 6	⁶⁶ Ga(9.49 h) - 1039.30, 2752.01, 2189.85
786.99 6	50	²⁰² Pb(3.53 h) - 490.47, 459.72, 389.94	833.60 4	5.0 3	²⁴⁶ Bk(1.80 d) - 798.80, 1081.40, 1124.29
788.742 8	34	¹³⁸ La(1.05×10 ¹¹ y) - 1435.795	834.01 2	96	⁷² Ga(14.10 h) - 2201.69, 629.95, 2507.82
788.742 8	100 5	¹³⁸ Pr(2.12 h) - 1037.8, 302.7, 390.9	834.01 2	80	⁷² As(26.0 h) - 629.95, 1463.95, 1050.73
788.876 ¹²	7.34 7	¹⁴⁹ Gd(9.28 d) - 149.735, 298.634, 346.651	834.830 3	12.98 ¹⁴	⁸⁸ Kr(2.84 h) - 2392.11, 196.301, 2195.842
789.21 ²⁰	†65 ¹³	¹⁹³ Hg(3.80 h) - 861.11, 1118.84, 580.97	834.848 3	99.976 ¹	⁵⁴ Mn(312.3 d)
789.7 1	1.14 9	²⁴⁹ Es(102.2 m) - 379.5, 813.2, 375.1	835.149 5	>2.6×10 ⁻⁵	⁹⁵ Nb(86.6 h) - 235.69
790.0 4	0.657 ¹⁸	⁸³ Rb(86.2 d) - 520.39, 529.635, 552.63	835.149 5	26.63 ¹⁹	⁹⁵ Tc(61 d) - 204.117, 582.082, 786.198
790.2 1	63.5 ¹⁷	²⁰⁹ At(5.41 h) - 545.0, 781.9, 195.0	835.38 ¹²	0.103 4	¹³⁷ Ce(34.4 h) - 824.82, 169.26, 762.3
792.071 6	37.5 6	¹⁸⁴ Re(38.0 d) - 903.279, 111.208, 894.757	836.7 1	1.8	¹³⁷ Pr(1.28 h) - 433.9, 514.0, 160.32
792.385 ²⁰	0.044	¹⁵⁰ Tb(3.48 h) - 638.050, 511, 496.242	836.79 6	19.2 ¹¹	²⁰⁵ Po(1.66 h) - 872.39, 1001.21, 849.83
793.278 ²⁵	0.016 4	¹²² Sb(2.7238 d) - 1140.55	836.90 7	9.8 5	²²⁴ Fr(3.33 m) - 215.983, 131.613, 1340.70
793.278 ²⁵	1.327 ²⁵	¹²² I(3.63 m) - 564.119, 692.794, 683.647	840 40	†3	²⁴³ Bk(4.5 h) - 187.1, 536, 146.4
793.60 9	0.10 2	⁸⁷ Zr(1.68 h) - 1227, 1209.8, 1024	841.211 ¹⁷	0.79 7	⁶¹ Co(1.650 h) - 67.412, 908.631
793.75 3	18.10 ²⁵	¹³¹ Te(30 h) - 182.25	841.28 7	†117 ⁸	¹⁸⁴ Ir(3.09 h) - 263.97, 119.80, 390.38
795.864 4	85.53 4	¹³⁴ Cs(2.0648 y) - 847.025	841.570 5	14.2 3	¹⁵² Eu(9.3116 h) - 963.390, 121.7817, 1389.00
796.462 ²⁵	0.0665 ²⁰	¹⁰⁷ Cd(6.50 h) - 93.124, 828.93, 324.81	844.17 ¹⁵	1.25 8	⁹² Y(3.54 h) - 934.46, 1405.28, 561.03
798.80 4	61 4	²⁴⁶ Bk(1.80 d) - 1081.40, 833.60, 1124.29	844.81 5	0.0351 ¹⁹	¹²⁹ Te(33.6 d) - 105.50
799.26 ²⁹	0.237 9	⁸³ Rb(86.2 d) - 520.39, 529.635, 552.63	845.044 ²⁰	19.7 9	²⁰⁸ At(1.63 h) - 686.527, 660.040, 177.595
799.64 6	9.4 ¹⁰	¹⁸² Hf(61.5 m) - 344.1, 224.38, 506.60	845.43 4	7.34 ²⁰	⁸⁷ Kr(76.3 m) - 402.586, 2554.8, 2558.1
800.01 8	1.49 ¹⁰	²⁵² Es(471.7 d) - 924.12, 785.09, 139.03	846.0 3	0.0019 ¹¹	¹¹⁷ In(116.2 m) - 315.302
801.953 4	8.69 4	¹³⁴ Cs(2.0648 y) - 847.025	846.511 ¹⁸	1.11 4	¹²⁵ Xe(16.9 h) - 188.418, 243.378, 54.968
803.10 5	0.0050 ⁸	²⁰⁶ Tl(4.199 m) - 362, 1166	846.771 5	98.9 3	⁵⁶ Mn(2.5785 h) - 1810.772, 2113.123, 2522.88
803.10 5	99	²⁰⁶ Bi(6.243 d) - 881.01, 516.18, 1718.70	846.771 5	100	⁵⁶ Co(77.27 d) - 1238.282, 2598.459, 1771.351
803.10 5	0.00121 4	²¹⁰ Po(138.376 d)	847.025 ²⁵	0.00030 ¹⁰	¹³⁴ Cs(2.0648 y)
805.75 6	0.084 4	⁶⁸ Ga(67.629 m) - 1077.35, 1883.09, 1260.97	847.27 ¹¹	†336 ³⁵	¹⁵⁸ Ho(11.3 m) - 218.221, 98.918, 945.61
805.9 4	8.4 9	¹²⁷ Sn(2.10 h) - 1114.3, 1095.6, 823.1	849.74 7	95.7 ¹⁸	⁹⁴ Tc(293 m) - 871.082, 702.626, 916.10
806.32 5	4.05 ¹⁷	⁹⁵ Ru(1.643 h) - 336.43, 1096.76, 626.77	849.83 7	25.5 ¹⁵	²⁰⁵ Po(1.66 h) - 872.39, 1001.21, 836.79
806.372 ¹⁷	9.5 3	¹⁶³ Tm(30.06 h) - 242.917, 47.155, 297.369	849.929 ¹³	20.45 ¹⁹	⁹⁶ Nb(23.35 h) - 778.224, 568.80, 459.88
807.38 8	22.7 5	²⁰⁶ Po(8.8 d) - 1032.26, 511.36, 286.410	849.929 ¹³	98 4	⁹⁶ Tc(4.28 d) - 778.224, 812.581, 1126.965
807.86 ¹⁰	6.2 4	⁴⁷ Ca(4.536 d) - 1297.09, 489.23, 767.1	850.647 ²⁴	0.065 ¹³	⁸⁸ Y(106.65 d) - 1836.063, 898.042, 2734.086
810.064 ¹⁵	16.63 ²⁵	¹⁷² Lu(6.70 d) - 1093.657, 900.724, 181.528	851.474 ¹⁷	4.56 3	¹⁸³ Os(13.0 h) - 381.768, 114.463, 167.844
810.20 ¹⁰	8.8 5	²⁵⁰ Es(8.6 h) - 828.82, 303.41, 349.4	852.21 3	27.0 6	¹³¹ Te(30 h) - 182.25
810.276 8	58.08 ²²	¹⁶⁸ Ho(1.20×10 ³ y) - 184.410, 711.683, 280.459	853.43 1	15.45 ²²	¹⁴⁹ Tb(4.118 h) - 352.24, 164.98, 388.57
810.764 ¹⁵	99	⁵⁸ Co(70.82 d) - 863.935, 1674.679	857.9 1	10.4 ¹⁴	¹⁰⁴ Ag(69.2 m) - 555.796, 767.72, 941.7
811.79 5	9.70 4	¹⁵⁸ Eu(15.19 d) - 88.9667, 1230.68, 1153.67	859.46 6	0.109 3	¹⁴⁹ Pm(53.08 h) - 285.95, 590.88, 22.510
811.85 3	86.0 9	⁵⁶ Ni(6.077 d) - 158.38, 749.95, 269.50	859.5 4	8.1 8	¹²⁷ Sn(2.10 h) - 1114.3, 1095.6, 823.1
812.581 ¹⁵	82 4	⁹⁶ Tc(4.28 d) - 778.224, 849.929, 1126.965	860.28 6	1.11 9	¹⁶⁴ Tm(2.0 m) - 91.40, 1154.66, 768.91
812.8 5	43	¹²⁸ Sb(4.40 h) - 914.6, 544.7, 1030.1	860.564 5	12.42 ¹⁰	²⁰⁸ Tl(3.053 m) - 2614.533, 583.191, 510.77
813.2 1	9.2 6	²⁴⁹ Es(102.2 m) - 379.5, 375.1, 1218.5	861.11 ¹⁷	†180 ³⁰	¹⁹³ Hg(3.80 h) - 1118.84, 789.21, 580.97
814.1 1	0.0032 3	¹⁴⁴ Pr(17.28 m) - 696.510, 2185.662, 1489.160	861.35 5	0.019 3	¹¹⁷ In(116.2 m) - 315.302
814.41 3	44.5 ²²	²⁰⁷ At(1.80 h) - 588.33, 300.654, 467.12	861.35 5	0.31 3	¹¹⁷ Sb(2.80 h) - 158.562, 1004.51, 1021.0

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Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
861.8	32	²⁵⁶ Es(7.6 h) - 231.1, 172.6, 1092.9	911.78 7	90.69 10	²⁰⁴ Pb(67.2 m) - 899.15, 374.72, 622.53
861.9 2	0.00034	²⁰⁸ Po(2.898 y) - 291.7, 570.4, 601.6	911.78 7	13.5 16	²⁰⁴ Bi(11.22 h) - 899.15, 374.72, 984.02
863.935 18	0.683 11	⁵⁸ Co(70.82 d) - 810.764, 1674.679	911.79 9	16.95 24	²⁰⁷ Po(5.80 h) - 992.33, 742.64, 405.75
865.09 12	0.584 18	⁷³ Se(7.15 h) - 360.80, 67.03, 510	912.125 25	15.25 25	¹⁷² Lu(6.70 d) - 1093.657, 900.724, 181.528
865.3 1	5.9 5	¹⁹⁸ Pb(2.40 h) - 290.3, 365.4, 173.4	912.60 5	6.25 8	¹¹⁹ Te(4.70 d) - 153.59, 1212.73, 270.53
868.5 4	0.0120 5	⁹⁵ Sr(64.84 d) - 514.0067, 151.159, 362.81	912.73 9	1.78 10	⁹² Nb(10.15 d) - 934.46, 1847.27, 1132.24
869.60 3	0.317 8	⁹⁵ Tc(20.0 h) - 765.794, 1073.71, 947.67	912.95 4	4.79 18	¹⁸⁷ Ir(10.5 h) - 427.12, 400.89, 610.68
871.082 18	100	⁹⁴ Nb(2.03×10 ⁴ y) - 702.626	913.93 11	9.0 5	⁸⁵ Y(2.68 h) - 231.67, 504.45, 409.5
871.082 18	100	⁹⁴ Tc(293 m) - 702.626, 849.74, 916.10	914.6 5	20.0 11	¹²⁹ Sb(4.40 h) - 812.8, 544.7, 1030.1
872.14 3	11.9 9	⁶⁹ Ge(39.05 h) - 1107.01, 574.17, 1336.72	914.85 3	11.46 9	¹⁴⁸ Pm(5.370 d) - 1465.12, 550.284, 611.293
872.39 7	37	²⁰⁵ Po(1.66 h) - 1001.21, 849.83, 836.79	915.55 5	4.13 16	¹²⁵ Sn(5.80 h) - 1067.10, 1089.15, 822.48
873.190 5	12.27 3	¹⁵⁴ Eu(8.593 y) - 184.810, 81.99	915.80 13	0.0514 18	¹³⁷ Ce(9.0 h) - 447.15, 10.6, 436.59
874.51 2	0.164 3	¹³⁵ La(19.5 h) - 480.51, 587.83, 220.94	915.98 9	0.087 6	²⁴⁰ Am(50.8 h) - 987.76, 888.80, 98.860
874.813 13	6.29 6	¹⁸⁵ Os(93.6 d) - 646.116, 880.523, 717.424	916.10 15	7.6 4	⁹⁴ Tc(293 m) - 871.082, 702.626, 849.74
875.329 11	4.51 10	¹³³ I(20.8 h) - 529.872, 1298.223, 510.530	918.48 10	8.2 4	²³⁰ Pa(17.4 d) - 951.95, 454.95, 898.68
875.68 5	0.150 7	⁶² Cu(9.74 m) - 1172.9, 2301.8, 1128.9	918.69 4	23.0 14	²³⁸ Am(98 m) - 962.77, 561.11, 605.13
875.8 2	0.0069 4	¹⁶³ Er(75.0 m) - 1113.5, 436.1, 439.94	920.932 9	32.0 8	¹⁸⁴ Ta(8.7 h) - 414.03, 252.848, 111.208
876.41 4	7.3 3	¹⁵⁵ Pm(2.68 h) - 333.971, 1324.51, 1165.74	920.932 9	8.14 12	¹⁸⁴ Re(169 d) - 252.848, 216.548, 161.269
878.92 5	1.97 23	¹⁸³ Os(9.9 h) - 1101.94, 1107.92, 1034.85	921.2 3	0.210 16	¹⁵⁰ Eu(12.8 h) - 333.971, 406.52, 1165.74
879.383 3	30.10 6	¹⁶⁰ Tb(72.3 d) - 298.580, 966.171, 1177.962	921.5 10	†22 3	²⁴⁴ Bk(4.35 h) - 891.5, 217.6, 490.5
879.383 3	†1450 50	¹⁶⁰ Ho(5.02 h) - 728.18, 962.317, 966.171	923.9 7	6.2 7	¹¹⁷ Te(62 m) - 719.7, 1716.4, 2300.0
879.876 13	0.754 17	¹²⁹ I(13.11 d) - 666.331, 753.819, 1420.17	923.98 2	2.86 9	²³⁸ Np(2.117 d) - 984.45, 1028.54, 1025.87
879.876 13	1.29 3	¹²⁶ Cs(1.64 m) - 388.633, 491.243, 925.24	924.12 5	2.41 16	²⁵² Es(471.7 d) - 800.01, 785.09, 139.03
880.523 13	5.17 6	¹⁸⁵ Os(93.6 d) - 646.116, 874.813, 717.424	925.0 1	7.8 5	²³⁴ Pa(6.70 h) - 131.30, 946.00, 883.24
880.8 1	2.19 11	²⁵¹ Fm(5.30 h) - 425.4, 480.4, 358.3	925.189 21	6.90 7	¹⁴⁰ La(1.6781 d) - 1596.210, 487.021, 815.772
881.01 5	66.2 7	²⁰⁶ Bi(6.243 d) - 803.10, 516.18, 1718.70	925.189 21	0.0260 25	¹⁴⁰ Pr(3.39 m) - 1596.210, 306.9, 751.637
881.610 3	69	⁸⁴ Rb(32.77 d) - 1897.761, 1016.162	925.24 5	4.56 8	¹²⁶ Cs(1.64 m) - 388.633, 491.243, 879.876
882.63 3	0.87 3	²³⁸ Np(2.117 d) - 984.45, 1028.54, 1025.87	925.8 2	3.84 3	⁹¹ Sr(9.63 h) - 1024.3, 749.8, 652.9
883.24 4	9.6 6	²³⁴ Pa(6.70 h) - 131.30, 946.00, 569.5	926.2 1	12.5 15	¹⁰⁴ Ag(69.2 m) - 555.796, 767.72, 941.7
883.984 20	29.9 6	²⁰⁴ Po(3.53 h) - 270.068, 1016.31, 534.90	928.290 11	0.77 5	⁴⁸ V(15.9735 d) - 983.517, 1312.096, 944.104
884.47 5	10.0 5	¹⁹⁵ Tl(1.16 h) - 563.52, 1363.88, 242.15	929.01 7	20.2 8	¹⁴⁷ Gd(38.06 h) - 229.32, 396.00, 370.0
884.685 3	72.2 3	¹¹⁰ Ag(249.79 d) - 116.48, 1.113	929.47 2	1.233 18	²⁵⁰ Bk(3.217 h) - 989.12, 1031.85, 1028.65
884.685 3	92.9 19	¹¹⁰ In(4.9 h) - 657.7622, 937.493, 707.40	931.3 2	75	⁵⁵ Co(17.53 h) - 477.2, 1408.4, 1316.4
887.19 7	0.0255 12	⁷⁴ As(17.77 d) - 595.847, 608.353, 1204.208	931.34 2	0.545 20	¹⁸⁸ Re(16.98 h) - 155.032, 632.99, 477.99
888.80 5	25.1 4	²⁴⁰ Am(50.8 h) - 987.76, 98.860, 42.824	931.7 2	1.8	¹⁶¹ Er(3.21 h) - 826.6, 211.15, 592.6
889.277 3	99.984 1	⁴⁶ Sc(83.79 d) - 1120.545, 2010	932.37 15	6.7 10	¹⁹³ Hg(11.8 h) - 257.97, 407.63, 573.25
889.753 21	5.36 14	¹⁶⁹ Lu(34.06 h) - 960.622, 191.2137, 1449.74	933.8 7	2.000 6	¹¹⁵ Cd(44.6 d) - 1290.580, 484.470, 1132.570
889.96 2	1.530 23	²⁵⁰ Bk(3.217 h) - 989.12, 1031.85, 1028.65	934.46 5	13.9 8	⁹² Y(3.54 h) - 1405.28, 561.03, 448.34
891.5 10	†114 12	²⁴⁴ Bk(4.35 h) - 217.6, 921.5, 490.5	934.46 5	99	⁹² Nb(10.15 d) - 912.73, 1847.27, 1132.24
893.408 5	0.378 19	²¹¹ Bi(60.55 m) - 727.330, 1620.50, 785.37	934.46 5	100	⁹² Nb(3.47×10 ⁷ y) - 561.03
893.73 3	66 3	¹⁴⁵ Eu(5.93 d) - 653.512, 1658.53, 1997.00	935.538 11	94.5 9	⁵² Mn(5.591 d) - 1434.068, 744.233, 1333.649
894.26 4	9.88 16	⁷² Ga(14.10 h) - 834.01, 2201.69, 629.95	936.2 5	11.3 6	²⁰¹ Bi(108 m) - 629.1, 1014.1, 786.4
894.26 4	0.775 12	⁷² As(26.0 h) - 834.01, 629.95, 1463.95	936.7 4	2.20 6	⁹⁹ Rh(4.7 h) - 340.71, 617.8, 1261.2
894.351 12	19.8 3	²³² Pa(1.31 d) - 969.315, 150.059, 453.655	937.2 2	10.8 4	¹⁶² Hf(67.0 m) - 185.005, 1220.0, 282.864
894.757 6	15.6 3	¹⁸⁴ Re(38.0 d) - 903.279, 792.071, 111.208	937.493 4	34.13 11	¹¹⁰ Ag(249.79 d) - 116.48, 1.113
894.9 4	8.34 14	¹⁴² La(91.1 m) - 641.285, 2397.8, 2542.7	937.493 4	68.4 14	¹¹⁰ In(4.9 h) - 657.7622, 884.685, 707.40
895.8 1	13.6 6	²⁴⁰ Np(61.9 m) - 566.34, 973.9, 600.57	938.70 2	0.599 17	¹⁹⁴ Ir(19.28 h) - 328.455, 293.545, 645.157
896.28 6	0.47	²⁰⁹ Po(102 y) - 260.48, 262.81	941.7 1	25.0 23	¹⁰⁴ Ag(69.2 m) - 555.796, 767.72, 926.2
896.42 3	0.981 9	¹⁴⁸ Pm(5.370 d) - 1465.12, 550.284, 914.85	941.72 5	38.3 10	²⁸ Mg(20.91 h) - 30.6383, 1342.27, 400.56
896.9 3	13	²⁰³ Bi(11.76 h) - 820.3, 825.2, 1847.4	942.80 11	18.8 17	¹⁸² Hf(61.5 m) - 344.1, 224.38, 506.60
897.80 5	0.121 8	²⁰⁷ Bi(31.55 y) - 569.702, 1063.662, 1770.237	944.09 5	44	¹⁵⁸ Tb(180 y) - 962.06, 79.5104, 181.930
897.848 7	28 8	²⁴⁴ Am(10.1 h) - 743.971, 153.863, 99.383	944.104 7	7.76 9	⁴⁸ V(15.9735 d) - 983.517, 1312.096, 2240.375
898.042 3	14.04 9	⁸⁸ Rb(17.78 m) - 1836.063, 2677.892, 1382.406	945.61 4	†366 40	¹⁵⁸ Ho(11.3 m) - 218.221, 98.918, 948.78
898.042 3	93.7 3	⁸⁸ Y(106.65 d) - 1836.063, 2734.086, 850.647	945.96 8	7.4 6	²⁰¹ Pb(9.33 h) - 331.19, 361.27, 907.56
898.68 10	5.8 3	²³⁰ Pa(17.4 d) - 951.95, 918.48, 454.95	946.00 3	13.4 8	²³⁴ Pa(6.70 h) - 131.30, 883.24, 569.5
899.15 3	99	²⁰⁴ Pb(67.2 m) - 911.78, 374.72, 622.53	946 2	†-8	²⁴³ Bk(4.5 h) - 187.1, 536, 146.4
899.15 3	98 8	²⁰⁴ Bi(11.22 h) - 374.72, 984.02, 911.78	946.989 18	0.00822 24	¹²¹ Te(154 d) - 1102.149, 37.138, 998.291
899.43	0.0515 25	⁴² K(12.360 h) - 1524.70, 312.6, 1922.18	947.1 1	2.09 11	⁹³ Y(10.18 h) - 266.9, 1917.8, 680.2
899.6 4	2.45 24	¹²³ Xe(2.08 h) - 148.9, 178.1, 330.2	947.67 2	1.951 19	⁹⁵ Tc(20.0 h) - 765.794, 1073.71, 869.60
900.724 20	29.8 4	¹⁷² Lu(6.70 d) - 1093.657, 181.528, 810.064	948.29 4	2.20 12	¹⁹⁴ Au(38.02 h) - 328.455, 293.545, 1468.91
902.0 5	8.4 4	²⁰¹ Bi(108 m) - 629.1, 936.2, 1014.1	948.78 5	†345 10	¹⁵⁸ Ho(11.3 m) - 218.221, 98.918, 945.61
903.279 7	37.9 6	¹⁸⁴ Re(38.0 d) - 792.071, 111.208, 894.757	949.82 3	0.120 10	⁹³ Mo(6.85 h) - 689.07, 541.22, 385.31
905.515 21	2.45 6	¹⁵⁵ Dy(9.9 h) - 226.918, 184.564, 1089.8	951.95 5	29.1 14	²³⁰ Pa(17.4 d) - 918.48, 454.95, 898.68
907.56 11	5.7 3	²⁰¹ Pb(9.33 h) - 331.19, 361.27, 945.96	953.31 7	3.52 14	⁹² Sr(2.71 h) - 1383.93, 430.49, 241.56
908.39 8	1.85 9	²⁰² Au(28.8 s) - 439.59, 1125.20, 1306.38	953.42 16	3.6 9	¹⁸¹ Re(19.9 h) - 365.57, 360.70, 639.30
908.631 17	3.6 3	⁶¹ Co(1.650 h) - 67.412, 841.211	954.45 4	1.00 20	²⁰² Pb(3.53 h) - 490.47, 459.72, 389.94
908.8 2	2.60 15	²³⁷ Am(73.0 m) - 280.23, 438.4, 473.5	954.45 4	7.8 5	²⁰² Bi(1.72 h) - 960.67, 422.18, 657.49
908.96 4	0.010	⁸⁹ Sr(50.53 d)	954.55 9	17.6 5	¹³² I(2.295 h) - 667.718, 772.60, 522.65
908.96 4	100	⁸⁹ Zr(78.41 h) - 1713.06, 1744.52, 1657.28	959.70 7	0.069 6	²⁰² Tl(12.23 d) - 439.59, 520.11
909.847 18	0.0703 15	¹²¹ Te(154 d) - 1102.149, 37.138, 998.291	960.622 20	23.4 5	¹⁶⁹ Lu(34.06 h) - 191.2137, 1449.74, 889.753
911.204 4	25.8 4	²²⁸ Ac(6.15 h) - 968.971, 338.320, 964.766	960.67 5	92 8	²⁰² Pb(3.53 h) - 490.47, 459.72, 389.94
911.204 4	23.0 11	²²⁸ Pa(22 h) - 463.004, 968.971, 964.766	960.67 5	99	²⁰² Bi(1.72 h) - 422.18, 657.49, 954.45

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Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
961.22 8	†183 13	¹⁸⁴ Ir(3.09 h) - 263.97, 119.80, 390.38	1037.599 26	97.6 5	⁴⁸ Sc(43.67 h) - 1312.096, 983.517, 175.361
962.06 4	20.3 4	¹⁵⁸ Tb(180 y) - 944.09, 79.5104, 181.930	1037.8 1	101 5	¹³⁸ Pr(2.12 h) - 788.742, 302.7, 390.9
962.317 4	†1300 50	¹⁶⁰ Ho(5.02 h) - 728.18, 879.383, 966.171	1037.840 6	13.99 10	⁵⁶ Co(77.27 d) - 846.771, 1238.282, 2598.459
962.77 3	28	²³⁸ Am(98 m) - 918.69, 561.11, 605.13	1038.760 21	8.01 9	¹³⁵ I(6.57 h) - 1260.409, 1131.511, 1678.027
963.390 12	11.67 10	¹⁵² Eu(9.3116 h) - 841.570, 121.7817, 1389.00	1039.30 5	7	⁶⁶ Cu(5.088 m) - 833.50, 1333.00, 1872.94
964.079 18	14.605 21	¹⁵² Eu(13.537 y) - 344.2785, 778.9040, 411.1163	1039.30 5	37	⁶⁶ Ga(9.49 h) - 2752.01, 833.50, 2189.85
964.766 10	4.99 9	²²⁸ Ac(6.15 h) - 911.204, 968.971, 338.320	1039.928 17	0.095 4	⁵² Fe(8.275 h) - 168.688, 377.748, 1727.57
964.766 10	11.4 6	²²⁸ Pa(22 h) - 911.204, 463.004, 968.971	1043.72 3	7.51 9	²⁰⁵ Bi(15.31 d) - 1764.36, 703.44, 987.62
966.171 3	25.10 12	¹⁶⁰ Tb(72.3 d) - 879.383, 298.580, 1177.962	1044.002 5	27.23 25	⁸² Br(35.30 h) - 776.517, 554.348, 619.106
966.171 3	†1200 50	¹⁶⁰ Ho(5.02 h) - 728.18, 879.383, 962.317	1044.002 5	32.068 8	⁸² Rb(6.472 h) - 776.517, 554.348, 619.106
966.4 6	7.7 5	¹²⁹ Sb(4.40 h) - 812.8, 914.6, 544.7	1045.83 8	30.4 15	¹⁰⁶ Rh(131 m) - 511.842, 717.24, 450.97
968.971 17	15.8 3	²²⁸ Ac(6.15 h) - 911.204, 338.320, 964.766	1045.83 8	29.6 10	¹⁰⁶ Ag(8.28 d) - 511.842, 717.24, 450.97
968.971 17	13.9 8	²²⁸ Pa(22 h) - 911.204, 463.004, 964.766	1046.68 3	0.134 3	¹⁰² Rh(2.9 y) - 475.070, 631.28, 697.49
969.315 11	41.6 19	²³² Pa(1.31 d) - 894.351, 150.059, 453.655	1046.68 3	10.076 4	⁵⁷ Ni(35.60 h) - 1377.63, 127.164, 1919.52
969.458 20	0.630 19	¹²⁸ Cs(3.66 m) - 442.901, 526.557, 1140.079	1048.073 20	80 3	¹³⁶ Cs(13.16 d) - 818.514, 340.547, 1235.362
970.350 9	0.588 20	¹⁵² Eu(9.3116 h) - 841.570, 963.390, 121.7817	1049.043 25	5.38 19	¹⁵⁰ Eu(36.9 y) - 333.971, 439.401, 584.274
972.564 19	74.2 7	¹¹⁶ Sb(60.3 m) - 1293.558, 542.867, 407.351	1050.65 3	97 5	¹¹⁸ Sb(5.00 h) - 1229.68, 253.678, 40.8
973.9 1	23.8 12	²⁴⁰ Np(61.9 m) - 566.34, 600.57, 895.8	1050.73 4	0.984 21	⁷² As(26.0 h) - 834.01, 629.95, 1463.95
977.53 4	3.14 10	¹⁸⁷ Ir(10.5 h) - 912.95, 427.12, 400.89	1055.3 2	0.51 14	¹¹⁶ Te(2.49 h) - 93.88, 628.66, 103.01
978.969 15	0.256 5	¹⁴⁹ Pr(5.984 h) - 748.278, 675.795, 72.500	1057.8 1	0.29 3	¹⁷⁷ Ta(56.56 h) - 112.9498, 208.3664, 745.9
982.2 2	26.4 8	¹³⁹ Nd(5.50 h) - 113.94, 737.96, 708.06	1061.61 9	0.000762 25	¹⁷⁶ Lu(3.635 h) - 82.13
983.517 5	100.1 3	⁴⁸ Sc(43.67 h) - 1312.096, 1037.599, 175.361	1063.662 4	74.5 2	²⁰⁷ Bi(31.55 y) - 569.702, 1770.237, 1442.20
983.517 5	99.98 20	⁴⁸ V(15.9735 d) - 1312.096, 944.104, 2240.375	1065.04 8	0.0164 21	¹⁷⁴ Lu(3.31 y) - 76.471, 1241.847, 1318.296
984.02 2	59 3	²⁰⁴ Bi(11.22 h) - 899.15, 374.72, 911.78	1065.1 1	1.28 8	⁷³ Ga(4.86 h) - 297.32, 325.70, 739.42
984.45 2	27.8	²³⁸ Np(2.117 d) - 1028.54, 1025.87, 923.98	1065.98 3	23.1 5	¹¹⁷ Cd(3.36 h) - 1997.33, 564.397, 1432.91
985.10 10	5.54 18	¹⁷⁰ Lu(2.012 d) - 84.25474, 1280.25, 2041.88	1067.10 5	10	¹²⁵ Sn(9.64 d) - 1089.15, 822.48, 915.55
986.98 6	11	¹⁸⁶ Ir(2.0 h) - 137.155, 767.508, 630.354	1071.8 1	†148 15	¹⁷¹ Hf(12.1 h) - 122.0, 662.2, 347.18
987.62 3	16.13 16	²⁰⁵ Bi(15.31 d) - 1764.36, 703.44, 1043.72	1073.71 2	3.74 4	⁹⁵ Tc(20.0 h) - 765.794, 947.67, 869.60
987.76 6	73.2 10	²⁴⁰ Am(50.8 h) - 888.80, 98.860, 42.824	1076.64 4	9	⁸⁶ Rb(18.631 d)
989.12 2	45	²⁵⁰ Bk(3.217 h) - 1031.85, 1028.65, 889.96	1076.64 4	83	⁸⁶ Y(14.74 h) - 627.72, 1153.01, 777.35
989.12 2	13.3 9	²⁵⁴ Es(2.22 h) - 1031.85, 828.82, 1167.25	1077.043 6	6.15 19	¹⁴⁷ Eu(24.1 d) - 197.299, 121.220, 677.516
992.128 13	0.546 11	¹⁷⁴ Lu(142 d) - 272.918, 176.645, 76.471	1077.35 4	3.0	⁶⁸ Ga(67.629 m) - 1883.09, 805.75, 1260.97
992.33 9	59.3 7	²⁰⁷ Po(5.80 h) - 742.64, 911.79, 405.75	1078.62 10	0.564 19	²¹² Bi(60.55 m) - 727.330, 1620.50, 785.37
993.67 6	0.0184 18	⁷⁴ As(17.77 d) - 595.847, 608.353, 1204.208	1078.86 4	3.70 28	²⁴⁶ Bk(1.80 d) - 798.80, 1081.40, 833.60
996.82	0.0014 2	²⁴² Na(14.9590 h) - 1368.633, 2754.028, 3866.19	1080.21 8	5.6 3	¹⁷⁷ Yb(1.911 h) - 150.392, 1241.2, 121.6211
998.291 11	0.0796 18	¹²¹ Tel(15.4 d) - 1102.149, 37.138, 909.847	1081.40 6	5.8 4	²⁴⁶ Bk(1.80 d) - 798.80, 833.60, 1124.29
1000.00 12	3.3 7	¹⁸¹ Re(19.9 h) - 365.57, 360.70, 639.30	1083.85 5	0.493 15	¹²⁹ Te(69.6 m) - 27.81, 459.60, 487.39
1001.21 7	28.8 15	²⁰⁸ Po(1.66 h) - 872.39, 849.83, 836.79	1085.869 24	10.207 21	¹⁵² Eu(13.537 y) - 121.7817, 1408.006, 964.079
1001.85	1.2	⁴⁴ Sc(58.6 h) - 1126.08, 1157.031	1087.684 3	0.159 2	¹⁹⁸ Au(2.69517 d) - 411.80205, 675.8836
1004.49 20	0.022 3	¹³⁷ Ce(34.4 h) - 824.82, 169.26, 762.3	1088.64 10	0.6	¹²³ Sn(129.2 d) - 1030.23, 1021.00, 160.33
1004.51 15	0.0062 13	¹¹⁷ In(116.2 m) - 315.302	1089.15 10	4.59 16	¹²⁵ Sn(9.64 d) - 1067.10, 822.48, 915.55
1004.51 15	0.21 3	¹¹⁷ Sb(2.80 h) - 158.562, 861.35, 1021.0	1089.737 5	1.727 6	¹⁵² Eu(13.537 y) - 121.7817, 1408.006, 964.079
1004.725 6	18.01 5	¹⁵⁴ Eu(8.593 y) - 184.810, 81.99	1089.8	>2.8	¹⁵⁵ Dy(9.9 h) - 226.918, 184.564, 1090.0
1004.725 6	10.9 8	¹⁵⁴ Tb(9.4 h) - 123.071, 247.925, 540.18	1090.0	>2.8	¹⁵⁵ Y(9.9 h) - 226.918, 184.564, 1089.8
1013.808 11	20.20 17	¹⁴⁸ Pm(41.29 d) - 75.7, 62.2	1090.7 7	6.9 7	¹¹⁷ Te(62 m) - 719.7, 1716.4, 2300.0
1014.1 5	10.7 5	²⁰¹ Bi(108 m) - 629.1, 936.2, 786.4	1090.97 10	0.0081 8	¹³⁹ Ba(83.06 m) - 165.864, 1420.5, 1254.7
1016.162 13	0.349 10	⁸⁴ Rb(32.77 d) - 881.610, 1897.761	1091.331 17	0.149 6	¹⁹⁶ Au(6.180 d) - 355.684, 332.983, 326.349
1016.31 2	24.1 5	²⁰⁴ Po(3.53 h) - 883.984, 270.068, 534.90	1091.51 8	3.6 3	¹¹⁸ Sb(5.00 h) - 1229.68, 253.678, 1050.65
1020.6 5	0.0068 14	¹¹⁷ In(116.2 m) - 315.302	1092.9	15	²⁵⁶ Es(7.6 h) - 861.8, 231.1, 172.6
1020.6 5	0.103 17	¹¹⁷ Sb(2.80 h) - 158.562, 861.35, 1004.51	1093.4 3	2.79 24	¹²³ Xe(2.08 h) - 148.9, 178.1, 330.2
1021.0 5	0.112 17	¹¹⁷ Sb(2.80 h) - 158.562, 861.35, 1004.51	1093.657 13	6.0 3	¹⁷² Tm(63.6 h) - 78.7426, 1387.093, 1529.72
1021.00 20	0.00193 10	¹²³ Sn(129.2 d) - 1088.64, 1030.23, 160.33	1093.657 13	62.5 13	¹⁷² Lu(6.70 d) - 900.724, 181.528, 810.064
1022.78	0.0201 14	⁴² K(12.360 h) - 1524.70, 312.6, 899.43	1095.490 10	4.08 6	⁷¹ As(65.28 h) - 174.954, 499.876, 326.785
1023.1 2	99.4 3	¹²⁰ Sb(5.76 d) - 1171.3, 197.3, 89.9	1095.6 4	20 4	¹²⁷ Sn(2.10 h) - 1114.3, 823.1, 805.9
1024 1	0.28 2	⁸⁷ Zr(1.68 h) - 1227, 1209.8, 793.60	1096.76 6	21.0 10	⁹⁵ Ru(1.643 h) - 336.43, 626.77, 1178.66
1024.3 1	33	⁹¹ Sr(9.63 h) - 749.8, 652.9, 925.8	1099.251 4	56.5 15	⁵⁹ Fe(44.503 d) - 1291.596, 192.349, 142.652
1024.49 11	1.09 7	⁹⁷ Nb(72.1 m) - 658.08, 1268.68, 1515.59	1101.94 4	49.0 5	¹⁸³ Os(9.9 h) - 1107.92, 1034.85, 484.40
1025.87 2	9.6 5	²³⁸ Np(2.117 d) - 984.45, 1028.54, 923.98	1102.149 18	2.54 6	¹²¹ Te(154 d) - 37.138, 998.291, 909.847
1027.662 24	16.8 7	²⁰⁸ At(1.63 h) - 686.527, 660.040, 177.595	1103.16 4	2.95 10	¹⁰² Rh(207 d) - 475.070, 628.05, 468.59
1028.54 2	20.3 8	²³⁸ Np(2.117 d) - 984.45, 1025.87, 923.98	1107.01 6	36	⁶⁹ Ge(39.05 h) - 574.17, 872.14, 1336.72
1028.65 2	4.90 13	²⁵⁰ Bk(3.217 h) - 989.12, 1031.85, 889.96	1107.92 4	22.36 20	¹⁸³ Os(9.9 h) - 1101.94, 1034.85, 484.40
1029.06 3	11.7 4	¹¹⁷ Cd(3.36 h) - 1997.33, 1065.98, 564.397	1110.64 6	0.2240 22	⁷³ Se(7.15 h) - 360.80, 67.03, 865.09
1030.1 6	12.6 8	¹²⁹ Sb(4.40 h) - 812.8, 914.6, 544.7	1112.074 4	13.644 21	¹⁵² Eu(13.537 y) - 121.7817, 1408.006, 964.079
1030.23 10	0.0310 12	¹²³ Sn(129.2 d) - 1088.64, 1021.00, 160.33	1112.7 3	0.821 10	¹²⁰ Sb(5.76 d) - 1171.3, 1023.1, 197.3
1031.70 3	0.125 5	¹³² Cs(6.479 d) - 667.718, 630.19, 505.79	1113.5 3	0.0490 14	¹⁶³ Er(75.0 m) - 436.1, 439.94, 297.88
1031.70 3	7.8 5	¹³² La(4.8 h) - 464.55, 567.14, 1909.91	1114.3 4	39 4	¹²⁷ Sn(2.10 h) - 1095.6, 823.1, 805.9
1031.85 2	35.6 5	²⁵⁰ Bk(3.217 h) - 989.12, 1028.65, 889.96	1115.546 4	15.43 9	⁶⁵ Ni(2.5172 h) - 1481.84, 366.27, 1623.42
1031.85 2	10.6 8	²⁵⁰ Es(2.22 h) - 989.12, 828.82, 1167.25	1115.546 4	50.60 24	⁶⁵ Zn(244.26 d) - 344.95, 770.6
1032.26 10	32.9 7	²⁰⁶ Po(8.8 d) - 511.36, 286.410, 807.38	1118.84 17	†116 17	¹⁹³ Hg(3.80 h) - 861.11, 789.21, 580.97
1033.8 3	9	²⁰³ Bi(11.76 h) - 820.3, 825.2, 896.9	1120.545 4	99.987 1	⁴⁶ Sc(83.79 d) - 889.277, 2010
1034.85 5	6.02 6	¹⁸³ Os(9.9 h) - 1101.94, 1107.92, 484.40	1121.3007 5	34.9 1	¹⁸² Ta(114.43 d) - 67.74970, 1221.4066, 1189.0503
1036.4 3	10.3 2	¹⁷⁷ W(135 m) - 115.65, 426.98, 115.05	1121.3007 5	32	¹⁸² Re(12.7 h) - 67.74970, 1221.4066, 1189.0503

8th Edition of the Table of Isotopes: 1998 Update - Energy-Ordered Decay Gamma-Ray Table

Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
1121.3007 5	22.0 6	¹⁸² Re(64.0 h) - 229.3207, 67.74970, 1221.4066	1220.0 2	22.5 12	¹⁶² Ho(67.0 m) - 185.005, 282.864, 937.2
1124.29 4	~4.4	²⁴⁶ Bk(1.80 d) - 798.80, 1081.40, 833.60	1221.4066 5	26.98 10	¹⁸² Ta(114.43 d) - 67.74970, 1121.3007, 1189.0503
1125.20 8	2.30 8	²⁰² Au(28.8 s) - 439.59, 1306.38, 1203.7	1221.4066 5	24.8 10	¹⁸² Re(12.7 h) - 67.74970, 1121.3007, 1189.0503
1125.46 4	14.9 3	¹³¹ Te(30 h) - 182.25	1221.4066 5	17.4 4	¹⁸² Re(64.0 h) - 229.3207, 67.74970, 1121.3007
1125.700 23	1.02 5	¹¹⁰ In(69.1 m) - 657.7622, 2129.53, 2211.49	1222.36 7	31.00 12	¹⁵⁶ Tb(5.35 d) - 534.318, 199.2132, 88.9667
1126.08	1.2	⁴⁴ Sc(58.6 h) - 1001.85, 1157.031	1223.28 6	0.198 16	¹⁵⁰ Eu(12.8 h) - 333.971, 406.52, 1165.74
1126.7 1	22.1 14	²¹¹ Rn(14.6 h) - 68.573, 167.90, 236.48	1224.93 7	6	¹⁷⁶ Ta(8.09 h) - 1159.28, 88.34, 201.83
1126.8 2	0.8	¹⁴¹ Nd(2.49 h) - 1292.6, 1147.2, 145.4405	1227 1	1.0	⁸⁷ Zr(1.68 h) - 1209.8, 1024, 793.60
1126.965 21	15.2 12	⁹⁶ Tc(4.28 d) - 778.224, 849.929, 812.581	1228.33 7	1.4 4	¹⁷⁴ Ta(1.05 h) - 206.50, 91.00, 1205.92
1128.6 3	2.0 3	⁸⁹ Nb(1.9 h) - 1627.20, 1833.46, 3092.7	1228.60 4	1.21 9	⁷⁶ As(1.0778 d) - 559.101, 657.041, 1216.104
1128.9 1	0.0324 17	⁶² Cu(9.74 m) - 1172.9, 875.68, 2301.8	1229.68 2	100 5	¹¹⁸ Sb(5.00 h) - 253.678, 1050.65, 40.8
1129.224 15	92.7 4	⁹⁰ Nb(14.60 h) - 2318.968, 141.178, 2186.242	1230.68 6	7.98 3	¹⁵⁶ Eu(15.19 d) - 811.79, 88.9667, 1153.67
1129.65	2.4 2	²⁶ Al(7.4 \times 10 ⁵ y) - 1808.63, 2938.20	1235.362 23	20.0 7	¹³⁶ Cs(13.16 d) - 818.514, 1048.073, 340.547
1131.511 18	22.74 14	¹³² In(6.57 h) - 1260.409, 1678.027, 1457.56	1236.441 12	1.51 4	¹³³ I(20.8 h) - 529.872, 875.329, 1298.223
1132.24 8	0.005	⁹² Nb(10.15 d) - 934.46, 912.73, 1847.27	1237.07 20	0.0118 13	⁴⁵ Ti(184.8 m) - 720.22, 1408.6, 1662.4
1132.570 10	0.0856 10	¹¹³ Cd(44.6 d) - 933.8, 1290.580, 484.470	1238.282 7	67.6 4	⁵⁶ Co(77.27 d) - 846.771, 2598.459, 1771.351
1135.04 8	7.8 4	¹⁹⁹ Pb(90 m) - 366.90, 353.39, 720.24	1238.8 3	4.6 3	²⁰⁵ Po(1.66 h) - 872.39, 1001.21, 849.83
1136.00 2	0.476 13	¹³² Cs(6.479 d) - 667.718, 630.19, 505.79	1240.13 3	5.9 5	⁷⁸ As(90.7 m) - 613.725, 694.916, 1308.59
1136.75 7	7.66 7	¹¹⁹ Te(4.70 d) - 153.59, 1212.73, 270.53	1241.17 10	0.625 6	¹⁹⁵ Hg(41.6 h) - 261.75, 560.27, 387.87
1138.26 8	0.000234 15	¹⁷⁶ Lu(3.635 h) - 82.13	1241.2 2	3.47 17	¹⁷⁷ Yb(1.911 h) - 150.392, 1080.21, 121.6211
1140.079 23	1.168 11	¹²⁸ Cs(3.66 m) - 442.901, 526.557, 969.458	1241.847 6	5.14 10	¹⁷⁴ Lu(3.31 y) - 76.471, 1318.296, 1065.04
1140.55 3	0.76 4	¹²² Sb(2.7238 d)	1242.47 6	6.601 23	¹⁵⁶ Eu(15.19 d) - 811.79, 88.9667, 1230.68
1142.35 7	2.79 14	⁹² Sr(2.71 h) - 1383.93, 953.31, 430.49	1243.9 1	3.50 8	²³⁰ Ac(122 s) - 454.95, 508.20, 1347.7
1147.2 2	0.306 12	¹⁴¹ Nd(2.49 h) - 1126.8, 1292.6, 145.4405	1246.278 15	4.21 6	⁵² Mn(5.591 d) - 1434.068, 935.538, 744.233
1147.9 8	2.61 10	⁹⁷ Zr(16.91 h) - 743.36, 507.64, 355.40	1254.7 2	0.026 3	¹³⁹ Ba(83.06 m) - 165.864, 1420.5, 1310.6
1148.29 9	5.72 10	²⁰⁷ Po(5.80 h) - 992.33, 742.64, 911.79	1256.3 2	0.57 8	⁸⁰ Rb(34 s) - 616.6, 703.9, 639.6
1148.9 4	4.3 4	¹⁰⁹ In(4.2 h) - 203.5, 623.7, 426.25	1256.901 19	0.81 4	¹²² Sb(2.7238 d) - 1140.55
1150.258 3	0.194 4	¹⁴⁵ Pr(5.984 h) - 748.278, 675.795, 72.500	1260.409 17	28.90 17	¹³⁵ I(6.57 h) - 1131.511, 1678.027, 1457.56
1150.76 4	0.601 17	¹⁹⁴ Ir(19.28 h) - 328.455, 293.545, 645.157	1260.97 5	0.083 4	⁶⁸ Ga(67.629 m) - 1077.35, 1883.09, 805.75
1152.4 1	100 8	¹⁴⁷ Tb(1.7 h) - 694.4, 139.9, 119.7	1261.2 4	11	⁹⁹ Rh(4.7 h) - 340.71, 617.8, 936.7
1153.01 4	30.5 9	⁸⁶ Y(14.74 h) - 1076.64, 627.72, 777.35	1265.18 10	0.0165 13	¹⁷⁴ Lu(142 d) - 272.918, 992.128, 176.645
1153.67 10	6.79 6	¹⁵⁶ Eu(15.19 d) - 811.79, 88.9667, 1230.68	1266.12 11	0.07	³¹ Si(157.3 m)
1154.66 5	1.64 13	¹⁶⁴ Tm(2.0 m) - 91.40, 768.91, 208.08	1268.68 9	0.148 20	⁹⁷ Nb(72.1 m) - 658.08, 1024.49, 1515.59
1157.031	99.9	⁴⁴ Sc(3.927 h) - 1499.43, 2656.41, 2144.2	1269.06 10	0.0018 6	⁷⁴ As(17.77 d) - 595.847, 608.353, 1204.208
1157.031	1.2	⁴⁴ Sc(58.6 h) - 1001.85, 1126.08	1269.34 2	0.93 4	¹⁷⁸ Lu(28.4 m) - 93.180, 1340.8, 1310.05
1157.47 3	11.3 4	¹³⁰ I(12.36 h) - 536.09, 668.54, 739.48	1273.540 16	14.9 3	¹⁶⁶ Tm(7.70 h) - 778.817, 2052.36, 184.410
1158.10 6	0.59 4	¹⁰² Rh(207 d) - 475.070, 628.05, 1103.16	1273.83 8	9.3 3	¹⁰³ Ag(65.7 m) - 118.72, 148.193, 266.86
1159.28 9	0.00139 4	¹⁷⁶ Lu(3.635 h) - 82.13	1274.436 6	35.19 18	¹⁵⁴ Eu(8.593 y) - 184.810, 81.99
1159.28 9	25	¹⁷⁶ Ta(8.09 h) - 88.34, 1224.93, 201.83	1274.436 6	10.5 7	¹⁵⁴ Tb(21.5 h) - 123.071, 2187.10, 722.12
1164.6 2	1.10 4	¹²⁹ Ba(2.23 h) - 214.30, 220.83, 129.14	1274.53 2	99.944 14	²² Na(2.6019 y)
1165.74 3	15.8 6	¹⁵⁰ Pm(2.68 h) - 333.971, 1324.51, 831.92	1277.5 15	1.6 5	⁸⁹ Nb(1.18 h) - 587.83, 507.4, 769.69
1165.74 3	0.257 24	¹⁵⁰ Eu(12.8 h) - 333.971, 406.52, 921.2	1280.25 10	8.18 23	¹⁷⁰ Lu(2.012 d) - 84.25474, 2041.88, 985.10
1166 3		²⁰⁶ Tl(4.199 m) - 803.10, 362	1290.580 10	0.890 14	¹¹⁵ Cd(44.6 d) - 933.8, 484.470, 1132.570
1167.25 3	2.94 20	²⁵⁵ Es(2.22 h) - 989.12, 1031.85, 828.82	1291.596 7	43.2 11	⁵⁹ Fe(44.503 d) - 1099.251, 192.349, 142.652
1171.3 2	100	¹²⁰ Sb(5.76 d) - 1023.1, 197.3, 89.9	1292.6 2	0.46 4	¹⁴¹ Nd(2.49 h) - 1126.8, 1147.2, 145.4405
1172.9 1	0.34	⁶² Cu(9.74 m) - 875.68, 2301.8, 1128.9	1293.558 15	100.0 9	¹¹⁶ Sb(60.3 m) - 972.564, 542.867, 407.351
1173.237 4	99.9736 7	⁶⁰ Co(5.2714 y) - 1332.501, 346.93, 826.06	1293.587	99.1	⁴¹ Ar(109.34 m) - 1677.198
1177.04 10	0.71 8	¹¹⁹ Te(16.03 h) - 644.01, 699.85, 1749.65	1297.09 10	71	⁴⁷ Ca(4.536 d) - 489.23, 807.86, 767.1
1177.962 4	14.87 6	¹⁶⁰ Tb(72.3 d) - 879.383, 298.580, 966.171	1297.1 2	5.37 13	¹⁴⁶ Eu(4.59 d) - 747.2, 633.03, 634.07
1178.66 6	5.16 25	⁹⁵ Ru(1.643 h) - 336.43, 1096.76, 626.77	1298.223 11	2.35 5	¹³³ I(20.8 h) - 529.872, 875.329, 510.530
1181.39 1	99.3 25	²¹⁰ At(8.1 h) - 82.802, 106, 167	1298.6 2	0.127 14	¹⁴¹ Nd(2.49 h) - 1126.8, 1147.2, 145.4405
1185.234 15	3.75 7	⁶¹ Cu(3.333 h) - 282.956, 656.008, 67.412	1299.140 10	1.623 8	¹⁵² Eu(13.537 y) - 121.7817, 1408.006, 964.079
1189.0503 5	16.23 4	¹⁸² Ta(114.43 d) - 67.74970, 1121.3007, 1221.4066	1303.27 3	18.4 4	¹¹⁷ Cd(2.49 h) - 273.349, 344.459, 1576.62
1189.0503 5	15.0 6	¹⁸² Re(12.7 h) - 67.74970, 1121.3007, 1221.4066	1306.38 8	2.25 7	²⁰² Au(28.8 s) - 439.59, 1125.20, 1203.7
1193.77 3	6.02 24	²³⁴ Np(4.4 d) - 1558.31, 1527.21, 1601.80	1308.59 4	13.0 11	⁷⁸ As(90.7 m) - 613.725, 694.916, 828.189
1200.231 13	19.97 10	⁹⁶ Nb(23.35 h) - 778.224, 568.80, 459.88	1310.05 4	1.40 5	¹⁷⁸ Lu(28.4 m) - 93.180, 1340.8, 1269.34
1200.6 2	9.7 10	¹⁹⁹ Tl(5.3 h) - 411.80205, 675.8836, 636.4	1310.6 2	0.0159 8	¹³⁹ Ba(83.06 m) - 165.864, 1420.5, 1254.7
1203.7 5	2.01 16	²⁰² Au(28.8 s) - 439.59, 1125.20, 1306.38	1312.096 6	100.1 5	⁴⁸ Sc(43.67 h) - 983.517, 1037.599, 175.361
1204.208 12	0.285 18	⁷⁴ As(17.77 d) - 595.847, 608.353, 887.19	1312.096 6	97.5 8	⁴⁸ V(15.9735 d) - 983.517, 944.104, 2240.375
1204.77 6	0.30	⁹¹ Y(58.51 d)	1314.67 1	0.931 14	¹⁵² Eu(13.537 y) - 121.7817, 1408.006, 964.079
1204.77 6	2.9	⁹¹ Nb(60.86 d)	1316.4 2	7.09 10	⁵⁵ Co(17.53 h) - 931.3, 477.2, 1408.4
1205.717 14	29.9 17	²⁰⁰ Tl(26.1 h) - 367.943, 579.298, 828.320	1317.927 7	0.585 20	¹³² Cs(6.479 d) - 667.718, 630.19, 505.79
1205.92 4	4.9 4	¹⁷⁴ Ta(1.05 h) - 206.50, 91.00, 1228.33	1318.296 10	0.035 3	¹⁷⁴ Lu(3.31 y) - 76.471, 1241.847, 1065.04
1206.60 4	12.74 20	¹³¹ Te(30 h) - 182.25	1320.24 2	0.0695 10	¹³⁹ Pr(4.41 h) - 1347.33, 1630.67, 255.11
1208.2 2	2.7 3	¹⁷³ Ta(3.14 h) - 172.2, 69.70, 90.3	1320.6 4	0.37 9	⁸⁵ Y(2.68 h) - 231.67, 504.45, 913.93
1209.8 7	0.33 2	⁸⁷ Zr(1.68 h) - 1227, 1024, 793.60	1324.51 6	17.5 7	¹⁵⁰ Pm(2.68 h) - 333.971, 1165.74, 831.92
1212.73 7	66	¹¹⁹ Te(4.70 d) - 153.59, 270.53, 1136.75	1332.501 5	99.9856 4	⁶⁰ Co(5.2714 y) - 1173.237, 346.93, 826.06
1212.880 12	2.38 4	⁴⁸ Sc(43.67 h) - 1312.096, 983.517, 1037.599	1333.00 6	0.0028 4	⁶⁶ Cu(5.088 m) - 1039.30, 833.50, 1872.94
1212.94 4	1.44 9	⁷⁶ As(1.0778 d) - 559.101, 657.041, 1216.104	1333.649 17	5.07 5	⁵² Mn(5.591 d) - 1434.068, 935.538, 744.233
1216.104 20	3.42 18	⁷⁶ As(1.0778 d) - 559.101, 657.041, 1212.94	1336.72 6	4.5 4	⁶⁹ Ge(39.05 h) - 1107.01, 574.17, 872.14
1216.104 20	8.8 4	⁷⁶ Br(16.2 h) - 559.101, 657.041, 1853.67	1337.44 20	0.00076 4	¹²³ Sn(129.2 d) - 1088.64, 1030.23, 1021.00
1218.5 1	1.5 1	²⁴⁹ Es(102.2 m) - 379.5, 813.2, 375.1	1337.9	0.00180 22	⁴³ Sc(3.891 h) - 372.760, 1931.3, 1558.5

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Energy	Intensity	Parent - Associated γ-rays	Energy	Intensity	Parent - Associated γ-rays
1340.70 10	4.8 5	²²⁴ Fr(3.33 m) - 215.983, 131.613, 836.90	1523.0 4	11.2 7	¹²⁰ I(81.0 m) - 560.44, 640.85, 601.11
1340.8 2	3.22 14	¹⁷⁸ Lu(28.4 m) - 93.180, 1310.05, 1269.34	1524.70	18	⁴² K(12.360 h) - 312.6, 899.43, 1922.18
1342.27 4	52.6 16	²⁸ Mg(20.91 h) - 30.6383, 941.72, 400.56	1527.21 4	11.2 5	²³⁴ Np(4.4 d) - 1558.31, 1601.80, 1435.36
1345.84 4	0.473 10	⁶⁴ Cu(12.700 h)	1529.72 4	5.1 3	¹⁷² Tm(63.6 h) - 78.7426, 1093.657, 1387.093
1347.33 1	0.47	¹³⁹ Pr(4.41 h) - 1630.67, 255.11, 1375.56	1529.77 3	10.93 17	⁸⁸ Kr(2.84 h) - 2392.11, 196.301, 2195.842
1347.7 1	1.57 4	²³⁰ Ac(122 s) - 454.95, 508.20, 1243.9	1530.709 19	0.0452 19	⁵² Fe(8.275 h) - 168.688, 377.748, 1727.57
1354.52 9	1.64 9	¹⁴¹ La(3.92 h) - 1693.3, 2267.0, 662.06	1533.8 2	6.05 15	¹⁴⁶ Eu(4.59 d) - 747.2, 633.03, 634.07
1362.0 1	15.1 4	¹⁰⁰ Rh(20.8 h) - 539.59, 2376.1, 1553.4	1539.01 10	0.76 4	⁹³ Tc(2.75 h) - 1363.02, 1520.37, 1477.13
1362.9 1	32.5 18	²¹¹ Rn(14.6 h) - 68.573, 167.90, 236.48	1553.4 2	21	¹⁰⁰ Rh(20.8 h) - 539.59, 2376.1, 822.6
1363.02 4	0.787 20	⁹³ Mo(6.85 h) - 949.82, 689.07, 541.22	1553.768 8	83	⁵⁰ V(1.4×10 ¹⁷ y)
1363.02 4	66	⁹³ Tc(2.75 h) - 1520.37, 1477.13, 1539.01	1554.946 24	0.412 8	¹³⁴ La(6.45 m) - 604.721, 563.246, 1732.12
1363.88 10	8.4 4	¹⁹⁵ Tl(1.16 h) - 563.52, 884.47, 242.15	1558.31 4	18.72 20	²³⁴ Np(4.4 d) - 1527.21, 1601.80, 1435.36
1368.633	100	²⁴ Na(14.9590 h) - 2754.028, 3866.19, 996.82	1558.5	0.0084 5	⁴³ Sc(3.891 h) - 372.760, 1931.3, 593.390
1369.7 2	2.92 22	⁵⁵ Co(17.53 h) - 931.3, 477.2, 1408.4	1575.85 15	3.7	¹⁴² Pr(19.12 h) - 641.285
1372.91 3	4.7 2	²⁸ Mg(20.91 h) - 30.6383, 1342.27, 941.72	1575.85 15	2.0	¹⁴² Pm(40.5 s) - 641.4, 2384.3, 2845.9
1375.56 3	0.154 7	¹³⁹ Pr(4.41 h) - 1347.33, 1630.67, 255.11	1576.62 3	11.19 22	¹¹⁷ Cd(2.49 h) - 273.349, 1303.27, 344.459
1376.10 3	1.749 19	¹²⁴ I(4.1760 d) - 602.729, 1690.983, 722.786	1577.3 2	2.88 22	²³⁸ Am(98 m) - 962.77, 918.69, 561.11
1377.63 3	81.7 16	⁵⁷ Ni(35.60 h) - 127.164, 1919.52, 1757.55	1581.89 8	0.187 4	¹⁶⁶ Ho(26.83 h) - 80.574, 1379.40, 1662.48
1378.45 10	3.0 3	²²⁴ Fr(3.33 m) - 215.983, 131.613, 836.90	1596.210 35	95.4 14	¹⁴⁰ La(1.6781 d) - 487.021, 815.772, 328.762
1378.76 3	0.00238 17	¹²⁶ I(13.11 d) - 666.331, 753.819, 1420.17	1596.210 35	0.50	¹⁴⁰ Pr(3.39 m) - 306.9, 751.637, 925.189
1379.40 6	0.93 3	¹⁶⁶ Ho(26.83 h) - 80.574, 1581.89, 1662.48	1599.70 2	13.4 6	²¹⁰ At(8.1 h) - 82.802, 106, 167
1381.71 11	0.57 5	⁹³ Tc(2.75 h) - 1363.02, 1520.37, 1477.13	1601.80 4	9.1 4	²³⁴ Np(4.4 d) - 1558.31, 1527.21, 1435.36
1382.406 26	0.74 3	⁸⁸ Rb(17.78 m) - 1836.063, 898.042, 2677.892	1613.57 9	2.8 3	¹¹² Ag(3.130 h) - 617.516, 1387.67, 606.88
1382.406 26	0.021 6	⁸⁸ Y(106.65 d) - 1836.063, 898.042, 2734.086	1615.29 4	1.76 17	²⁵⁰ Es(2.22 h) - 989.12, 1031.85, 828.82
1383.93 5	90 3	⁹² Sr(2.71 h) - 953.31, 430.49, 241.56	1620.50 10	1.49 3	²¹² Bi(60.55 m) - 727.330, 785.37, 1078.62
1384.300 5	24.12 8	¹¹⁰ Ag(249.79 d) - 116.48, 1.113	1620.89 13	0.072 5	⁸⁹ Zr(78.41 h) - 908.96, 1713.06, 1744.52
1387.093 4	5.6 3	¹⁷² Tm(63.6 h) - 78.7426, 1093.657, 1529.72	1621.4 20	4.9 6	¹⁹⁶ Tl(1.84 h) - 426.0, 610.5, 635.5
1387.67 17	5.4 6	¹¹² Ag(3.130 h) - 617.516, 606.88, 694.863	1623.42 6	0.498 14	⁶⁵ Ni(2.5172 h) - 1481.84, 1115.546, 366.27
1387.9 1	0.00672 5	¹⁴⁴ Pr(17.28 m) - 696.510, 2185.662, 1489.160	1627.20 30	3.4	⁸⁹ Nb(1.9 h) - 1833.46, 3092.7, 2572.3
1389.00 1	0.748 23	¹⁵² Eu(9.3116 h) - 841.570, 963.390, 121.7817	1630.67 2	0.343 10	¹³⁹ Pr(4.41 h) - 1347.33, 255.11, 1375.56
1397.52 3	7.03 15	¹⁶³ Tm(1.810 h) - 104.320, 69.229, 241.305	1642.714	31.9 10	³⁸ Cl(37.24 m) - 2167.405
1403.22 8	0.576 18	¹⁷⁸ Lu(28.4 m) - 93.180, 1340.8, 1310.05	1657.28 14	0.107 4	⁸⁹ Zr(78.41 h) - 908.96, 1713.06, 1744.52
1404.6 2	3.08 12	⁸⁵ Y(4.86 h) - 231.67, 2123.8, 767.40	1658.43 9	6	¹⁹⁹ Pb(90 m) - 366.90, 353.39, 1135.04
1405.28 9	4.8 3	⁹² Y(3.54 h) - 934.46, 561.03, 448.34	1658.53 5	14.9 8	¹⁴⁵ Eu(5.93 d) - 893.73, 653.512, 1997.00
1408.006 3	21.005 24	¹⁵² Eu(13.537 y) - 121.7817, 964.079, 1112.074	1662.4 6	0.041 4	⁴⁵ Ti(184.8 m) - 720.22, 1408.6, 425.1
1408.4 2	16.88 8	⁵⁵ Co(17.53 h) - 931.3, 477.2, 1316.4	1662.48 8	0.120 2	¹⁶⁶ Ho(26.83 h) - 80.574, 1379.40, 1581.89
1408.6 5	0.085 9	⁴⁵ Ti(184.8 m) - 720.22, 1662.4, 425.1	1668.3	3.6	¹⁸⁵ Ir(14.4 h) - 254.4, 1828.8, 60.0
1411.34 10	4.6 4	¹⁹⁷ Tl(2.84 h) - 425.84, 152.22, 577.97	1674.679 36	0.518 8	⁵⁸ Co(70.82 d) - 810.764, 863.935
1413.19 8	1.09 8	¹¹⁹ Te(16.03 h) - 644.01, 699.85, 1749.65	1677.198	0.052 5	⁴¹ Ar(109.34 m) - 1293.587
1419.81 8	46 3	¹⁵⁴ Tb(22.7 h) - 247.925, 346.643, 123.071	1678.027 21	9.62 20	¹³⁵ I(6.57 h) - 1260.409, 1131.511, 1457.56
1420.17 2	0.295 6	¹²⁶ I(13.11 d) - 666.331, 753.819, 2045.17	1690.983 7	47.79 15	¹²⁴ Sb(60.20 d) - 602.729, 722.786, 645.8549
1420.5 2	0.26 3	¹³⁸ Ba(83.06 m) - 165.864, 1254.7, 1310.6	1690.983 7	10.88 13	¹²⁴ I(4.1760 d) - 602.729, 722.786, 1509.47
1424.511 24	0.185 3	¹³⁴ La(6.45 m) - 604.721, 1554.946, 563.246	1692.420	0.166 17	³⁸ S(170.3 m) - 1941.944, 1745.77, 2750.97
1432.91 3	13.4 3	¹¹⁷ Cd(3.36 h) - 1997.33, 1065.98, 564.397	1693.3 1	0.074 4	¹⁴¹ La(3.92 h) - 1354.52, 2267.0, 662.06
1434.068 14	100.0 5	⁵² Mn(5.591 d) - 935.538, 744.233, 1333.649	1713.06 24	0.763 13	⁸⁹ Zr(78.41 h) - 908.96, 1744.52, 1657.28
1434.45 3	7.96 19	¹⁶³ Tm(1.810 h) - 104.320, 69.229, 241.305	1716.4 7	15.9 16	¹¹⁷ Te(62 m) - 719.7, 2300.0, 1090.7
1435.36 4	6.38 25	²³⁴ Np(4.4 d) - 1558.31, 1527.21, 1601.80	1718.70 7	31.8 4	²⁰⁶ Bi(6.243 d) - 803.10, 881.01, 516.18
1435.795 10	66	¹³⁸ La(1.05×10 ¹¹ y)	1724.92 6	0.399 12	⁶⁵ Ni(2.5172 h) - 1481.84, 1115.546, 366.27
1436.70 2	29.0 13	²¹⁰ At(8.1 h) - 82.802, 106, 167	1727.57 8	0.211 10	⁵² Fe(8.275 h) - 168.688, 377.748, 1039.928
1442.20 9	0.130 3	²⁰⁷ Pb(31.55 y) - 569.702, 1063.662, 1770.237	1732.12 3	0.234 5	¹³⁴ La(6.45 m) - 604.721, 1554.946, 563.246
1449.74 4	9.92 21	¹⁶⁹ Lu(34.06 h) - 960.622, 191.2137, 889.753	1744.52 15	0.129 3	⁸⁹ Zr(78.41 h) - 908.96, 1713.06, 1657.28
1450.5 1	0.327 14	⁹³ Y(10.18 h) - 266.9, 947.1, 1917.8	1745.77	2.44 8	³⁸ S(170.3 m) - 1941.944, 2750.97, 1692.420
1457.56 3	8.73 6	¹³⁵ I(6.57 h) - 1260.409, 1131.511, 1678.027	1746.93 4	0.333 7	¹²² I(3.63 m) - 564.119, 692.794, 793.278
1459.1 2	†50.0 20	¹²⁹ Ba(2.16 h) - 182.32, 202.38, 419.83	1749.65 8	3.95 25	¹¹⁹ Te(16.03 h) - 644.01, 699.85, 1413.19
1460.830	11	⁴⁰ K(1.277×10 ⁹ y)	1749.91 6	0.0277 5	¹⁶⁶ Ho(26.83 h) - 80.574, 1379.40, 1581.89
1463.95 15	1.107 19	⁷² As(26.0 h) - 834.01, 629.95, 1050.73	1757.55 3	5.75 16	⁵⁷ Ni(35.60 h) - 1377.63, 127.164, 1919.52
1465.12 3	22	¹⁴⁹ Pm(5.370 d) - 550.284, 914.85, 611.293	1760.70 20	5.8×10 ⁻⁹ 23	⁹⁰ Y(64.10 h) - 2186.242
1465.93 4	4.50 24	¹⁷² Tm(63.6 h) - 78.7426, 1093.657, 1387.093	1764.36 4	32.5 6	²⁰⁵ Bi(15.31 d) - 703.44, 987.62, 1043.72
1466.84 4	3.32 9	¹⁶⁸ Lu(34.06 h) - 960.622, 191.2137, 1449.74	1770.237 10	6.87 4	²⁰⁷ Pb(31.55 y) - 569.702, 1063.662, 1442.20
1468.91 4	6.4 4	¹⁹⁴ Au(38.02 h) - 328.455, 293.545, 2043.67	1771.351 16	15.69 15	⁵⁶ Co(77.27 d) - 846.771, 1238.282, 2598.459
1470.23 4	2.7 3	¹⁸³ Hf(1.067 h) - 783.754, 73.174, 459.069	1778.969 12	100	²⁸ Al(2.2414 y)
1477.13 4	99.1 25	⁹³ Mo(6.85 h) - 949.82, 689.07, 541.22	1808.63	99.73 8	²⁶ Al(7.4×10 ⁵ y) - 1129.65, 2938.20
1477.13 4	8.7 5	⁹³ Tc(2.75 h) - 1363.02, 1520.37, 1539.01	1810.772 17	27.2 8	⁵⁶ Mn(2.5785 h) - 846.771, 2113.123, 2522.88
1481.84 5	24	⁶⁵ Ni(2.5172 h) - 1115.546, 366.27, 1623.42	1828.8	10	¹⁸⁵ Ir(14.4 h) - 254.4, 60.0, 97.4
1483.39 2	46.5 20	²¹⁰ At(8.1 h) - 82.802, 106, 167	1833.46 17	3.16 24	⁸⁹ Nb(1.9 h) - 1627.20, 3092.7, 2572.3
1489.160 5	0.278 4	¹⁴⁴ Pr(17.28 m) - 696.510, 2185.662, 1387.9	1836.063 12	21.40 24	⁸⁸ Rb(17.78 m) - 898.042, 2677.892, 1382.406
1495.8 5	8.2 9	¹⁹⁶ Tl(1.84 h) - 426.0, 610.5, 635.5	1836.063 12	99.2 3	⁸⁸ Y(106.65 d) - 898.042, 2734.086, 850.647
1499.43	0.912 15	⁴⁴ Sc(3.927 h) - 1157.031, 2656.41, 2144.2	1847.27 8	0.85 4	⁹² Nb(10.15 d) - 934.46, 912.73, 1132.24
1509.47 4	3.13 5	¹²⁴ I(4.1760 d) - 602.729, 1690.983, 722.786	1847.4 3	11.4 6	²⁰³ Bi(11.76 h) - 820.3, 825.2, 896.9
1514.909 14	4.0 3	²⁰⁷ Pb(31.55 y) - 569.702, 1063.662, 1770.237	1853.67 5	14.7 7	⁷⁶ Br(16.2 h) - 559.101, 657.041, 1216.104
1515.59 12	0.122 13	⁹⁷ Nb(72.1 m) - 658.08, 1024.49, 1268.68	1861.67 3	6.17 9	²⁰⁵ Bi(15.31 d) - 1764.36, 703.44, 987.62
1520.37 9	24.4 8	⁹³ Tc(2.75 h) - 1363.02, 1477.13, 1539.01	1872.94	<0	⁶⁶ Cu(5.088 m) - 1039.30, 833.50, 1333.00

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Energy	Intensity	Parent - Associated γ -rays	Energy	Intensity	Parent - Associated γ -rays
1883.09 7	0.138 6	⁶⁸ Ga(67.629 m) - 1077.35, 805.75, 1260.97	2752.01 15	23.38 22	⁶⁶ Ga(9.49 h) - 1039.30, 833.50, 2189.85
1897.761 14	0.738 21	⁸⁴ Rb(32.77 d) - 881.610, 1016.162	2754.028	99.944 4	²⁴ Na(14.9590 h) - 1368.633, 3866.19, 996.82
1901.3 7	7.16 14	¹⁴² La(91.1 m) - 641.285, 2397.8, 2542.7	2845.9 8	0.047 4	¹⁴² Pm(40.5 s) - 1575.85, 641.4, 2384.3
1909.91 4	9.0 6	¹³² La(4.8 h) - 464.55, 567.14, 663.07	2938.20	0.27 3	²⁶ Al(7.4×10 ⁵ y) - 1808.63, 1129.65
1917.8 1	1.55 3	⁹³ Y(10.18 h) - 266.9, 947.1, 680.2	2950.53 6	7.4 4	⁷⁶ Br(16.2 h) - 559.101, 657.041, 1853.67
1919.52 5	12.26 25	⁵⁷ Ni(35.60 h) - 1377.63, 127.164, 1757.55	3092.7 2	3.0 3	⁸⁹ Nb(1.9 h) - 1627.20, 1833.46, 2572.3
1920.72 13	20.8 7	⁸⁶ Y(14.74 h) - 1076.64, 627.72, 1153.01	3301.2	0.0031 15	⁴⁴ Sc(3.927 h) - 1157.031, 1499.43, 2656.41
1922.18	0.041 4	⁴² K(12.360 h) - 1524.70, 312.6, 899.43	3369.9 3	0.0080 5	⁶² Cu(9.74 m) - 1172.9, 875.68, 2301.8
1931.3	0.0151 9	⁴³ Sc(3.891 h) - 372.760, 1558.5, 593.390	3383.6 5	0.06 3	¹⁵⁰ Tb(3.48 h) - 638.050, 511, 496.242
1941.944	83	³⁸ S(170.3 m) - 1745.77, 2750.97, 1692.420	3774 2		¹⁵⁰ Eu(12.8 h) - 333.971, 406.52, 1165.74
1949.8 1	1.255 25	²³⁰ Ac(122 s) - 454.95, 508.20, 1243.9	3817 2		¹⁵⁰ Eu(12.8 h) - 333.971, 406.52, 1165.74
1996.61 9	7.5 5	¹⁵⁴ Tb(21.5 h) - 123.071, 1274.436, 2187.10	3836 2		¹⁵⁰ Eu(12.8 h) - 333.971, 406.52, 1165.74
1997.00 4	7.2 4	¹⁴⁵ Eu(5.93 d) - 893.73, 653.512, 1658.53	3846 2		¹⁵⁰ Eu(12.8 h) - 333.971, 406.52, 1165.74
1997.33 3	26	¹¹⁷ Cd(3.36 h) - 1065.98, 564.397, 1432.91	3866.19	0.052 4	²⁴ Na(14.9590 h) - 1368.633, 2754.028, 996.82
2002.147 18	1.92 7	¹²⁵ Sn(9.64 d) - 1067.10, 1089.15, 822.48	3927 2		¹⁵⁰ Eu(12.8 h) - 333.971, 406.52, 1165.74
2010	1.3×10 ⁻⁵ 10	⁴⁶ Sc(83.79 d) - 1120.545, 889.277	4237.96	0.0011 2	²⁴ Na(14.9590 h) - 1368.633, 2754.028, 3866.19
2011.88 10	2.88 11	⁸⁷ Kr(76.3 m) - 402.586, 2554.8, 845.43	4295.88 10	4.05 5	⁶⁶ Ga(9.49 h) - 1039.30, 2752.01, 833.50
2040.2 2	8.4 9	¹⁹⁸ Tl(5.3 h) - 411.80205, 675.8836, 636.4			
2041.88 10	6.10 18	¹⁷⁰ Lu(2.012 d) - 84.25474, 1280.25, 985.10			
2043.67 5	3.60 18	¹⁹⁴ Au(38.02 h) - 328.455, 293.545, 1468.91			
2045.17 2	0.0046 3	¹²⁶ I(13.11 d) - 666.331, 753.819, 1420.17			
2052.36 3	17.2 3	¹⁶⁰ Tm(7.70 h) - 778.817, 184.410, 1273.540			
2059.67 20	7.1 4	¹⁸⁸ Ir(41.5 h) - 155.032, 2214.62, 632.99			
2090.945 23	5.51 3	¹²⁴ Sb(60.20 d) - 602.729, 1690.983, 722.786			
2113.123 10	14.3 4	⁵⁶ Mn(2.5785 h) - 846.771, 1810.772, 2522.88			
2118.867 20	0.422 19	⁸⁸ Rb(17.78 m) - 1836.063, 898.042, 2677.892			
2123.8 2	5.0 3	⁸⁵ Y(4.86 h) - 231.67, 767.40, 535.61			
2126.11 10	5.13 16	¹⁷⁰ Lu(2.012 d) - 84.25474, 1280.25, 2041.88			
2129.53 16	2.13 9	¹¹⁰ In(69.1 m) - 657.7622, 2211.49, 2317.54			
2144.2	0.0069 15	⁴⁴ Sc(3.927 h) - 1157.031, 1499.43, 2656.41			
2158.57 10	0.00111 18	⁶⁰ Co(5.2714 y) - 1332.501, 1173.237, 346.93			
2167.405	42.4 11	³⁸ Cl(37.24 m) - 1642.714			
2171.1 3	0.0203 20	¹⁴¹ La(3.92 h) - 1354.52, 1693.3, 2267.0			
2185.662 7	0.694 13	¹⁴⁴ Pr(17.28 m) - 696.510, 1489.160, 1387.9			
2186.242 25	1.4×10 ⁻⁶ 3	⁹⁰ Y(64.10 h) - 1760.70			
2186.242 25	17.96 16	⁹⁰ Nb(14.60 h) - 1129.224, 2318.968, 141.178			
2187.10 16	9.9 6	¹⁵⁴ Tb(21.5 h) - 123.071, 1274.436, 722.12			
2189.85 6	5.60 7	⁶⁶ Ga(9.49 h) - 1039.30, 2752.01, 833.50			
2195.842 7	13.18 10	⁸⁸ Kr(2.84 h) - 2392.11, 196.301, 834.830			
2201.69 5	25.9 5	⁷² Ga(14.10 h) - 834.01, 629.95, 2507.82			
2211.49 10	1.76 7	¹¹⁰ In(69.1 m) - 657.7622, 2129.53, 2317.54			
2214.62 20	18.7 13	¹⁸⁸ Ir(41.5 h) - 155.032, 632.99, 477.99			
2222.0 15	0.09 2	⁸⁷ Zr(1.68 h) - 1227, 1209.8, 1024			
2236.89 17	5.6 6	¹⁹² Au(4.94 h) - 316.50791, 295.95827, 612.46564			
2240.375 19	2.41 4	⁴⁸ V(15.9735 d) - 983.517, 1312.096, 944.104			
2267.0 2	0.0413 25	¹⁴¹ La(3.92 h) - 1354.52, 1693.3, 662.06			
2300.0 7	11.2 12	¹¹⁷ Te(62 m) - 719.7, 1716.4, 1090.7			
2301.8 2	0.0414 20	⁶² Cu(9.74 m) - 1172.9, 875.68, 1128.9			
2317.54 10	1.31 5	¹¹⁰ In(69.1 m) - 657.7622, 2129.53, 2211.49			
2318.968 10	0.00171 16	⁹⁰ Y(3.19 h) - 202.53, 479.51, 682.0			
2318.968 10	82.03 16	⁹⁰ Nb(14.60 h) - 1129.224, 141.178, 2186.242			
2376.1 3	35.3 24	¹⁰⁰ Rh(20.8 h) - 539.59, 1553.4, 822.6			
2384.3 6	0.067 6	¹⁴² Pm(40.5 s) - 1575.85, 641.4, 2845.9			
2392.11 4	34.6 1	⁸⁸ Kr(2.84 h) - 196.301, 2195.842, 834.830			
2397.8 9	13.3 3	¹⁴² La(91.1 m) - 641.285, 2542.7, 894.9			
2454.8 5	2.04 22	¹²⁰ I(81.0 m) - 560.44, 1523.0, 640.85			
2507.82 6	12.78 23	⁷² Ga(14.10 h) - 834.01, 2201.69, 629.95			
2521.40 5	0.0130 15	¹⁴⁰ Pr(3.39 m) - 1596.210, 306.9, 751.637			
2522.88 6	0.99 3	⁵⁶ Mn(2.5785 h) - 846.771, 1810.772, 2113.123			
2542.7 10	10.00 24	¹⁴² La(91.1 m) - 641.285, 2397.8, 894.9			
2554.8 2	9.2 5	⁸⁷ Kr(76.3 m) - 402.586, 845.43, 2558.1			
2558.1 2	3.92 25	⁸⁷ Kr(76.3 m) - 402.586, 2554.8, 845.43			
2572.3 4	2.58 20	⁸⁹ Nb(1.9 h) - 1627.20, 1833.46, 3092.7			
2583.0 6	0.0274 20	¹⁴² Pm(40.5 s) - 1575.85, 641.4, 2384.3			
2598.459 13	17.28 15	⁵⁶ Co(77.27 d) - 846.771, 1238.282, 1771.351			
2614.533 13	99	²⁰⁸ Tl(3.053 m) - 583.191, 510.77, 860.564			
2614.533 13	100	²⁰⁸ Bi(3.68×10 ⁵ y)			
2656.41	0.115 6	⁴⁴ Sc(3.927 h) - 1157.031, 1499.43, 2144.2			
2657.45 5	0.653 20	⁵⁶ Mn(2.5785 h) - 846.771, 1810.772, 2113.123			
2677.892 21	1.96 3	⁸⁸ Rb(17.78 m) - 1836.063, 898.042, 1382.406			
2734.086 13	0.71 7	⁸⁸ Y(106.65 d) - 1836.063, 898.042, 850.647			
2750.97	1.38 5	³⁸ S(170.3 m) - 1941.944, 1745.77, 1692.420			