

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
356 (?)	36 h	Ni-57	Ni-58	?
356 (62)	10.5 a	Ba-133	Ba-134	6.8 E-5
356 (13)	5.35 d	Tb-156	Tb-159	1.5 E-4
356 (88)	6.18 d	Au-196	Au-197	2.3
357 (0.02)	17 d	Pd-103	Pd-104	6.0 E-4
358 (0.4)	22 m	Rh-107	Pd-108	2.3 E-3
358 (0.1)	6.7 d	Lu-172	Lu-175	1.0 E-5
359 (3)	4.32 h	Sb-129	Te-130	1.0 E-3
359 (6)	3.8 h	Ir-195	Pt-196	9.0 E-4
360 (?)	2.1 m	Ga-75	Ge-76	?
360 (6)	2.8 d	Pt-191	Pt-192	3.2 E-3
360 (0.1)	9.35 h	Te-127	Te-128	1.1 E-2
361 (61)	3.6 m	Gd-161	Gd-160	6.1 E-2
361 (100)	7.1 h	Se-73	Se-74	1.5 E-1
361 (99)	9.9 m	Os-190m	Os-192	1.8 E-2
361 (13)	12.1 d	Ir-190	Ir-191	9.3 E-2
361 (91)	3.1 h	Ir-190m	Ir-191	2.6
362 (0.8)	2.35 h	Dy-165	Dy-164	8.7 E-3
362 (0.5)	1.3 m	Dy-165m	Dy-164	5.5 E-3
363 (0.07)	6.47 d	Cs-132	Cs-133	1.7 E-3
363 (40)	25 d	Hf-179n	Hf-180	?
363 (10)	18.56 h	Gd-159	Gd-160	4.4 E-1
364 (13)	15.2 m	Tm-175	Yb-176	3.9 E-2
365 (1)	8.2 m	As-79	Se-80	1.3 E-2
365 (13)	3.8 h	Ir-195m	Pt-196	2.0 E-3
366 (1)	66 h	Mo-99	Mo-100	3.1 E-3
366 (0.5)	5 d	Ta-183	W-184	2.9 E-5
367 (12)	11.3 h	Ge-77	Se-82	2.9 E-5
367 (79)	51.8 m	Ru-94	Ru-96	?
367 (2)	22 m	Rh-107	Pd-108	1.2 E-2
367 (0.8)	1.73 h	Nd-140	Nd-150	2.1 E-2
367 (2)	5.32 d	Tb-155	Dy-156	4.2 E-5
368 (21)	48.4 m	Au-200	Hg-201	6.7 E-3
368 (83)	18.7 h	Au-200m	Hg-201	4.3 E-6
368 (88)	26.1 h	Tl-200	Tl-203	7.4 E-5
371 (2)	14.6 h	Nb-90	Mo-92	7.6 E-4
371 (0.4)	20 h	Rh-100	Pd-102	1.0 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
371 (0.04)	3.1 h	Er-161	Er-162	9.5 E-5
371 (23)	12.1 d	Ir-190	Ir-121	1.6 E-1
372 (3)	23.4 h	Nb-96	Mo-97	2.3 E-3
372 (0.2)	35.3 m	Sn-11	Sn-112	2.8 E-3
372 (32)	32.06 h	Cs-129	Ba-130	4.1 E-3
372 (0.3)	7.5 h	Er-171	Er-170	7.2 E-5
373 (100)	22.2 h	K-43	Ca-44	4.0 E-2
373 (13)	11.5 d	Ba-131	Ba-132	2.0 E-4
373 (11)	15.15 h	Eu-157	Gd-158	1.3 E-3
373 (3)	6.7 d	Lu-172	Lu-175	2.8 E-4
374 (2)	3.3 h	Cu-61	Cu-63	2.4 E-2
374 (0.02)	5.37 h	Ag-113m	Cd-114	3.6 E-7
374 (0.7)	74 d	Ir-192	Ir-193	1.0 E-2
374 (12)	42.6 m	Hg-199m	Hg-200	6.3 E-1
374 (90)	66.9 m	Pb-204m	Pb-206	3.4 E-2
374 (0.3)	8.3 d	Ag-106m	Ag-107	1.2 E-4
376 (0.6)	19.5 m	Tb-163	Dy-164	2.2 E-3
377 (0.09)	3.1 h	Er-161	Er-162	1.9 E-4
377 (32)	8.51 m	Fe-53	Fe-54, Ni-58	8.2 E-1
378 (3)	6.7 d	Lu-172	Lu-175	2.9 E-4
379 (0.3)	4.8 h	Ga-73	Ge-74	2.6 E-3
379 (28)	161 d	Lu-177m	Hf-178, Lu-176	1.8 E-4
380 (1)	17 h	Ce-135	Ce-136	3.7 E-4
380 (0.9)	28 h	Pm-151	Sm-152	1.8 E-4
380 (2)	12.1 d	Ir-190	Ir-191	1.4 E-2
381 (24)	33 h	Sr-83	Sr-84	6.7 E-3
381 (77)	13 h	Y-87m	Y-89	1.0 E-1
381 (0.04)	8.47 h	Pd-101	Pd-102	3.3 E-2
381 (0.04)	40.1 m	Sn-123m	Sn-124	2.4 E-3
382 (20)	33 h	Sr-83	Sr-84	5.6 E-3
382 (0.7)	22 m	Rh-107	Pd-108	3.9 E-3
382 (86)	14 h	Os-183	Os-184	2.3 E-3
382 (7)	10.2 d	Pt-188	Pt-190	2.6 E-4
383 (0.2)	9.59 h	Dy-155	Dy-156	3.1 E-5
385 (1)	56 h	Br-77	Br-79	2.3 E-3
385 (0.4)	1.73 h	Nd-149	Nd-150	1.0 E-2
386 (92)	3.9 h	Zn-71	Ge-76	1.2 E-2

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
386 (5)	19.5 m	Tb-163	Dy-164	1.8 E-2
386 (3)	3.1 h	Ho-167	Er-168	3.6 E-3
386 (0.5)	6.24 d	Bi-206	Bi-209	1.5 E-5
387 (1)	30 h	Os-193	Os-192	1.0 E-4
388 (0.6)	17 h	Ce-135	Ce-136	2.3 E-4
388 (79)	2.81 h	Sr-87m	Sr-88	3.4 E+1
388 (w)	80.3 h	Y-87	Y-89	w
388 (3)	40 h	Hg-195m	Hg-196	6.9 E-5
389 (35)	13 d	I-126	I-127	3.9 E-1
389 (2)	33 h	Sr-83	Sr-84	5.5 E-4
390 (24)	19.5 m	Tb-163	Dy-164	8.6 E-2
390 (4)	2.4 m	Zn-71	Ge-76	7.3 E-3
390 (13)	59.6 s	Na-25	Mg-26	4.7 E-1
391 (4)	8.3 d	Ag-106m	Ag-107	1.7 E-3
391 (35)	171 d	Ir-194m	Ir-193, Pt-195	1.9 E-3
392 (60)	1.1 m	Ag-113m	Cd-114	1.1 E-3
392 (9)	22 m	Rh-107	Pd-108	4.9 E-2
392 (64)	115.1 d	Sn-113	Sn-114	9.6 E-4
392 (13)	2.13 h	Ba-129m	Ba-130	2.7 E-3
392 (1)	72.1 d	Tb-160	Tb-159, Dy-161	4.3 E-5
393 (64)	99.48 m	In-113m	In-115, Sn-114	1.3
393 (0.1)	14 m	Tc-101	Ru-102, Mo-100	1.6 E-4
393 (5)	39 m	Se-73m	Se-74	1.6 E-1
394 (97)	83.4 d	Zr-88	Zr-90	1.5 E-3
394 (2)	9.13 h	Zn-62	Zn-64	1.6 E-3
394 (7)	78.3 h	Ga-67	Ga-69	1.3 E-2
395 (7)	12.1 d	Ir-190	Ir-191	5.0 E-2
396 (6)	4.2 d	Yb-175	Yb-176, Lu-176	6.6 E-2
397 (12)	22.2 h	K-43	Ca-44	4.8 E-3
397 (0.2)	14 h	Os-183	Os-184	5.5 E-6
398 (0.1)	40.2 h	La-140	La-139	1.2 E-5
398 (0.5)	17 h	Ce-135	Ce-136	1.8 E-4
398 (0.8)	10.98 d	Nd-147	Nd-148	?
398 (11)	6.24 d	Bi-206	Bi-209	3.1 E-4
399 (0.1)	20 h	Rh-100	Pd-102	2.6 E-5
399 (88)	8.2 h	Tm-173	Yb-174	3.9 E-1
400 (0.5)	6.7 d	Lu-172	Lu-175	4.8 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
401 (0.5)	10 h	Os-183m	Os-184	5.0 E-5
401 (38)	21.1 h	Mg-28	Si-30	?
401 (12)	120 d	Se-75	Se-76	1.6 E-3
401 (4)	52.1 h	Pb-203	Pb-204	5.6 E-3
402 (4)	39 m	Se-73m	Se-74	1.3 E-1
402 (2)	19.5 m	Tb-163	Dy-164	6.8 E-3
402 (?)	12.1 d	Ir-190	Ir-191	?
403 (0.03)	26.4 h	As-76	As-75, Se-77	3.9 E-5
403 (4)	3.1 h	Ho-167	Er-168	4.8 E-3
404 (0.2)	9.59 h	Dy-155	Dy-156	3.1 E-5
404 (0.03)	15 h	Os-183	Os-184	8.2 E-7
404 (0.9)	11 h	Pt-189	Pt-190	8.8 E-4
405 (6)	29.7 m	Nd-139	Nd-142	1.4 E-5
406 (12)	2.2 h	Rh-106m	Pd-108	7.9 E-2
406 (13)	8.3 d	Ag-106m	Ag-107	5.5 E-3
406 (3)	12.6 h	Eu-150m	Eu-151	1.8 E-1
407 (0.5)	5 d	Ta-183	W-184	2.8 E-5
407 (28)	12.1 d	Ir-190	Ir-191	2.0 E-1
409 (8)	2.8 d	Pt-191	Pt-192	4.3 E-3
410 (0.1)	10.98 d	Nd-147	Nd-148	5.5 E-5
410 (2)	6.7 d	Lu-172	Lu-175	2.0 E-4
411 (0.1)	3.12 h	Ag-112	Cd-113	1.6 E-5
411 (23)	32.06 h	Cs-129	Ba-130	2.9 E-3
412 (4)	3.85 d	Sb-127	Te-128	6.1 E-4
412 (96)	2.695 d	Au-198	Au-197, Hg-199	8.4 E-2
413 (17)	15.15 h	Eu-157	Gd-158	2.0 E-3
414 (18)	41.3 d	Pm-148m	Sm-149	3.6 E-5
414 (19)	54 d	Eu-148	Eu-151	8.2 E-5
415 (0.02)	13.46 h	Pd-109	Pd-110	8.0 E-2
415 (88)	12.4 d	Sb-126	Te-128	7.5 E-6
415 (5)	19.5 m	Tb-163	Dy-164	1.8 E-2
416 (24)	11.3 h	Ge-77	Se-82	5.8 E-5
416 (0.7)	74 d	Ir-192	Ir-193	3.1 E-4
417 (32)	54 m	In-116m1	In-115, Sn-117	2.9
418 (0.02)	4.4 d	Rh-101m	Pd-102, Rh-103	1.8 E-4
418 (1)	9.35 h	Te-127	Te-128	1.1 E-1
418 (7)	33 h	Sr-83	Sr-84	2.0 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
419 (9)	2.9 a	Rh-102	Rh-103, Pd-104	7.7 E-5
419 (0.06)	39 h	Ge-69	Ge-70, Se-74	7.2 E-4
419 (0.3)	83 m	Ge-75	Ge-76, Se-80	5.7 E-2
419 (0.1)	206 d	Rh-102	Rh-103, Pd-104	4.6 E-5
419 (0.3)	8.3 d	Ag-106m	Ag-107	1.3 E-4
419 (20)	161 d	Lu-177m	Hf-178, Lu-176	1.3 E-4
420 (25)	2.13 h	Ba-129m	Ba-130	5.3 E-3
420 (0.08)	7.5 h	Er-171	Er-170	1.9 E-5
422 (11)	19.5 m	Tb-163	Dy-164	3.9 E-2
422 (0.3)	3.1 h	Er-161	Er-162	6.3 E-4
422 (0.3)	93.1 d	Tm-168	Tm-169	5.1 E-4
422 (86)	3.62 h	Pb-202m	Pb-204	2.3 E-4
424 (2)	33 h	Sr-83	Sr-84	5.6 E-4
424 (11)	1.73 h	Nd-149	Nd-150	2.8 E-1
424 (5)	10.2 d	Pt-188	Pt-190	1.9 E-4
426 (94)	22.7 m	Lu-178m	Hf-179	3.2 E-2
426 (80)	(4.3 s)	Hf-178m	Hf-179, Ta-180	?
426 (97)	31 a	Hf-178n	Hf-179	w
426 (7)	6.2 d	Au-196	Au-197	1.8 E-1
426 (100)	2.2 h	Ta-178m	Ta-180, W-180	2.2 E-1
427 (0.1)	8.47 h	Pd-101	Pd-102	8.4 E-2
428 (30)	2.77 a	sb-125	Te-126	2.3 E-5
428 (4)	19.5 m	Tb-163	Dy-164	1.5 E-2
429 (13)	2.2 h	Rh-106m	Pd-108	8.5 E-2
430 (13)	8.3 d	Ag-106m	Ag-107	5.5 E-3
430 (0.1)	3.1 h	Ho-167	Er-168	1.2 E-4
432 (2)	8.2 m	As-79	Se-80	2.5 E-2
432 (40)	22.6 m	Sm-141m	Sm-144	w
432 (1)	6.7 d	Lu-172	Lu-175	9.4 E-5
432 (3)	12.1 d	Ir-190	Ir-191	2.2 E-2
433 (3)	45 m	Cd-105	Cd-106	1.7 E-3
433 (3)	40.2 h	La-140	La-139	3.6 E-4
433 (6)	41.3 d	Pm-148m	Sm-149	1.2 E-5
433 (3)	54 d	Eu-148	Eu-151	1.3 E-5
433 (0.6)	9.59 h	Dy-155	Dy-156	9.0 E-5
433 (1)	70 d	Hf-175	Hf-176	3.2 E-4
433 (13)	3.8 h	Ir-195m	Pt-196	2.0 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
434 (43)	16.8 s	Rh-108	Pd-110	w
434 (91)	5.9 m	Rh-108m	Pd-110	w
434 (0.5)	2.1 m	Ag-108	Ag-109, Cd-110	2.4
434 (91)	127 a	Ag-108m	Ag-109	1.4 E-5
434 (0.2)	15.2 d	Eu-156	Gd-157	1.9 E-6
435 (0.5)	23.4 h	Nb-96	Mo-97	3.9 E-4
435 (0.07)	8.47 h	Pd-101	Pd-102	5.9 E-2
435 (1)	2.13 h	Ba-129m	Ba-130	2.1 E-4
435 (1)	19.5 m	Tb-163	Dy-164	3.6 E-3
436 (0.3)	9 h	Ce-137	Ce-138	1.9 E-4
436 (0.03)	75 m	Er-163	Er-164	1.6 E-3
438 (0.9)	33 h	Sr-83	Sr-84	2.5 E-4
439 (100)	13.9 h	Zn-69m	Zn-70, Ge-71, Ga-73	4.1 E-2
439 (79)	36 a	Eu-150	Eu-151	4.1 E-4
439 (91)	12.2 d	T-202	Tl-203	3.9 E-1
440 (9)	12 s	Mg-23	Mg-24	1.0
440 (2)	56 h	Br-77	Br-79	4.4 E-3
440 (1)	10.98 d	Nd-147	Nd-148	5.4 E-4
440 (0.03)	75 m	Er-163	Er-164	1.6 E-3
440 (0.1)	9.5 h	Hg-195	Hg-196	7.7 E-5
441 (1)	28 h	Pm-151	Sm-152	2.0 E-4
441 (0.9)	19.5 m	Tb-163	Dy-164	3.2 E-3
443 (12)	41.2 d	Ag-105	Ag-107, Cd-106	3.1 E-3
443 (16)	25 m	I-128	I-127	5.9 E-1
443 (26)	(3.8 m)	Cs-128	Ba-130	?
443 (85)	5.5 h	Hf-180m	Ta181, Hf-180	2.3 E-2
444 (2)	69.2 h	Ag-104	Cd-106	1.8 E-5
444 (0.3)	39.35 d	Ru-103	Ru-104	5.1 E-4
444 (2)	1.73 h	Nd-149	Nd-150	5.3 E-2
445 (6)	5.7 h	Mo-90	Mo-92	9.0 E-4
445 (4)	3.85 d	Sb-127	Te-128	6.0 E-4
446 (12)	20 h	Rh-100	Pd-102	2.6 E-3
446 (6)	4.4 m	In-118m	Sn-119	2.7 E-4
446 (4)	28 h	Pm-151	Sm-152	8.0 E-3
447 (2)	9 h	Ce-137	Ce-138	1.3 E-3
447 (0.1)	8.2 m	As-79	Se-80	1.9 E-3
447 (0.4)	3.1 h	Er-161	Er-162	8.4 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
447 (22)	93.1 d	Tm-168	Tm-169	3.8 E-2
448 (3)	12.1 d	Ir-190	Ir-191	2.1 E-2
451 (24)	2.2 h	Rh-106m	Pd-108	1.6 E-1
451 (28)	8.3 d	Ag-106m	Ag-107	1.2 E-2
452 (0.5)	22 m	Rh-107	Pd-108	2.7 E-3
452 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
452 (0.2)	40 h	Hg-195m	Hg-196	4.6 E-6
453 (0.07)	16.98 h	Re-188	Re-187, Os-189	4.1 E-4
453 (1)	15.15 h	Eu-157	Gd-158	1.2 E-4
453 (0.1)	6.24 d	Bi-206	Bi-209	2.9 E-6
453 (65)	24 d	Hf-179n	Hf-180	?
454 (0.6)	8.47 h	Pd-101	Pd-102	5.0 E-1
454 (63)	5.53 a	Pm-146	Sm-147	1.4 E-5
455 (0.3)	22.1 h	Os-182	Os-184	3.9 E-7
456 (0.08)	206 d	Rh-102	Rh-103, Pd-104	3.6 E-5
456 (3)	2.8 d	Pt-191	Pt-192	1.5 E-3
457 (0.02)	26.4 h	As-76	As-75, Se-77	2.6 E-5
457 (0.08)	1.37 a	Lu-173	Lu-175, Hf-174	7.8 E-6
458 (0.2)	35.3 m	Sn-111	Sn-112	2.8 E-3
459 (0.1)	9.59 h	Dy-155	Dy-156	1.5 E-5
460 (28)	23.4 h	Nb-96	Mo-97	2.2 E-2
460 (7)	69.6 m	Te-129	Te-130	1.4
460 (14)	2.13 h	Ba-129m	Ba-130	2.9 E-3
460 (2)	3.1 h	Ho-167	Er-169	2.3 E-3
461 (4)	30 h	Os-193	Os-192	3.9 E-4
462 (3)	19.5 m	Tb-163	Dy-164	1.1 E-2
462 (?)	12.1 d	Ir-190	Ir-191	?
463 (0.05)	6.24 d	Bi-206	Bi-209	1.5 E-6
463 (0.9)	54 m	In-116m1	In-115, Sn-117	8.2 E-2
464 (32)	21 m	Rb-84m	Rb-85, Sr-86, Y-89	1.5 E+2
464 (11)	2.77 a	Sb-125	Te-126	8.7 E-6
464 (0.7)	15.15 h	Eu-157	Gd-158	8.4 E-5
465 (2)	6.47 d	Cs-132	Cs-133	4.8 E-2
465 (8)	8.2 h	Tm-173	Yb-174	3.5 E-2
466 (0.1)	20 h	Rh-100	Pd-102	2.6 E-5
467 (0.3)	40 h	Hg-195m	Hg-196	6.9 E-6
468 (3)	2.13 h	Ba-129m	Ba-130	6.3 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
468 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
468 (48)	74 d	Ir-192	Ir-193	6.3 E-2
469 (0.2)	83 m	Ge-75	Ge-76, Se-80	3.8 E-2
469 (18)	4.44 h	Ru-105	Ru-104	3.6 E-3
469 (3)	206 d	Rh-102	Rh-103, Pd-104	1.4 E-3
470 (1)	16.8 d	Te-121	Te-122	2.1 E-4
471 (0.1)	22 m	Rh-107	Pd-108	5.5 E-4
472 (1)	5.7 h	Mo-90	Mo-92	1.5 E-4
473 (25)	3.85 d	Sb-127	Te-128	3.8 E-3
474 (0.9)	8.3 d	Ag-106m	Ag-107	3.8 E-4
475 (85)	4.3 m	Tc-102m	Ru-104	w
475 (46)	206 d	Rh-102	Rh-103, Pd-104	2.2 E-2
475 (95)	2.9 a	Rh-102m	Rh-103, Pd-104	8.1 E-4
475 (3)	19.5 m	Tb-163	Dy-164	1.1 E-2
476 (0.2)	8.2 m	As-79	Se-80	2.6 E-3
476 (2)	42.4 d	Hf-181	Hf-180	7.2 E-6
477 (2)	15.15 h	Eu-157	Gd-158	2.4 E-4
477 (0.3)	14 h	Os-183	Os-184	8.2 E-6
478 (10)	53.4 d	Be-7	Be-9, C-12	1.7 E-4
478 (1)	16.8 h	Re-188	Re-187, Os-189	5.9 E-3
478 (15)	41.5 h	Ir-188	Ir-191, Pt-190	1.2 E-4
478 (2)	12.1 d	Ir-190	Ir-191	1.5 E-2
479 (21)	23.8 h	W-187	W-186	2.3 E-2
480 (?)	1.73 h	Nd-149	Nd-150	?
480 (0.1)	3.1 h	Ho-167	Er-168	1.2 E-4
480 (32)	6.1 d	Ni-56	Ni-58	6.7 E-4
480 (0.09)	6.24 d	Bi-206	Bi-209	2.6 E-6
480 (91)	3.19 h	Y-90m	Zr-93	1.1 E-1
481 (6)	23.4 h	Nb-96	Mo-97	4.6 E-3
481 (2)	19.4 h	La-135	Ce-136, La-138	7.2 E-4
481 (4)	3.8 h	Ir-195m	Pt-196	6.0 E-4
482 (8)	2.13 h	Ba-129m	Ba-130	1.7 E-3
482 (0.7)	6.7 d	Lu-172	Lu-175	6.8 E-5
482 (81)	42.4 d	Hf-181	Hf-180	2.9 E-4
483 (97)	171 d	Ir-194m	Ir-193, Pt-195	5.2 E-3
483 (1)	39.5 h	Au-194	Au-197	7.6 E-4
484 (2)	17 h	Ce-135	Ce-136	7.4 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N * I
484 (1)	9.59 h	Dy-155	Dy-156	1.5 E-4
485 (0.7)	12.1 d	Ir-190	Ir-191	5.0 E-3
485 (1)	56 h	Br-77	Br-79	2.2 E-3
485 (91)	80.3 h	Y-87	Y-89	8.7 E-2
485 (2)	10 h	Os-183m	Os-184	2.0 E-4
485 (3)	74 d	Ir-192	Ir-193	3.9 E-3
486 (0.08)	16.98 h	Re-188	Re-187, Os-189	4.7 E-4
486 (0.09)	72.1 d	Tb-160	Tb-159, Dy-161	3.9 E-5
486 (0.7)	6.7 d	Lu-172	Lu-175	6.9 E-5
487 (62)	3.9 h	Zn-71m	Ge-76	8.1 E-3
487 (1)	69.6 m	Te-129	Te-130	1.9 E-1
487 (2)	11.5 d	Ba-131	Ba-132	3.0 E-5
487 (45)	40.2 d	La-140	La-139	5.4 E-3
487 (1)	19.5 m	Tb-163	Dy-164	3.6 E-3
488 (0.2)	4.8 h	Ga-73	Ge-74	1.7 E-3
489 (7)	4.54 d	Ca-47	Ca-48	2.6 E-4
489 (0.1)	10.98 d	Nd-147	Nd-148	5.4 E-5
489 (0.06)	3.1 h	Er-161	Er-162	1.3 E-4
489 (4)	74 d	Ir-192	Ir-193	5.2 E-3
490 (0.2)	39 m	Se-73m	Se-74	6.4 E-3
490 (0.2)	15.2 h	Eu-156	Gd-157	1.8 E-6
490 (2)	4.7 d	Lu-172	Lu-175	1.9 E-4
491 (3)	13 d	I-126	I-127	3.3 E-2
491 (0.8)	12.1 d	Ir-190	Ir-191	5.7 E-3
492 (15)	53.38 h	Cd-115	Cd-116	9.3 E-2
492 (0.003)	340 d	Sm-145	Sm-147	?
494 (?)	1.73 h	Nd-149	Nd-150	7.8 E-3
495 (23)	19.5 m	Tb-163	Dy-164	8.2 E-2
495 (69)	31 a	Hf-178n	Hf-179	w
496 (0.03)	8.47 h	Pd-101	Pd-102	2.6 E-2
496 (42)	11.5 d	Ba-131	Ba-132	6.3 E-4
496 (0.6)	14 h	Os-183	Os-184	1.6 E-5
497 (86)	39.35 d	Ru-103	Ru-104	1.4 E-1
497 (0.04)	17 d	Pd-103	Pd-104	1.2 E-3
497 (15)	6.24 d	Bi-206	Bi-209	4.4 E-4
498 (20)	1.6 m	Sb-124m	Te-125	w
498 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
498 (82)	18.7 h	Au-200m	Hg-201	4.2 E-6
499 (1)	9.59 h	Dy-155	Dy-156	1.5 E-4
501 (7)	41.3 d	Pm-148m	Sm-149	1.4 E-5
501 (12)	5.5 h	Hf-180m	Ta-181, Hf-180	3.2 E-3
503 (94)	9.9 m	Os-190m	Os-192	1.7 E-2
503 (1)	12.1 d	Ir-190	Ir-191	7.0 E-3
503 (94)	3.1 h	Ir-190m	Ir-191	2.7
506 (0.8)	6.47 d	Cs-132	Cs-133	1.9 E-2
506 (5)	36 a	Eu-150	Eu-151	7.0 E-6
508 (18)	16.8 d	Te-121	Te-122	3.8 E-3
516 (2)	1.3 m	Dy-165m	Dy-164	2.2 E-2
516 (41)	6.24 d	Bi-206	Bi-209	1.2 E-3
518 (14)	17 h	Ce-135	Ce-136	5.2 E-3
518 (34)	12.1 d	Ir-190	Ir-191	2.4 E-1
519 (1)	20 h	Rh-100	Pd-102	2.7 E-4
520 (0.1)	12.2 d	Tl-202	Tl-203	4.3 E-4
520 (24)	56 h	Br-77	Br-78	5.3 E-2
521 (46)	86.2 d	Rb-83	Rb-85, Sr-84	2.9 E-3
521 (0.4)	38.8 h	As-77	Se-78, Br-81	3.4 E-4
521 (0.2)	18.7 m	Eu-159	Gd-160	8.3 E-4
521 (0.04)	6.2 d	Au-196	Au-197	1.0 E-3
524 (91)	1.7 m	Sc-50	Ti-50	w
527 (2)	25 m	I-128	I-127	7.4 E-2
527 (0.7)	26.4 m	Au-201	Hg-202	5.0 E-3
528 (50)	53.38 h	Cd-115	Cd-116	3.1 E-1
528 (2)	2.13 h	Ba-129	Ba-130	4.2 E-4
528 (0.4)	3.1 h	Er-161	Er-162	8.4 E-4
528 (4)	6.7 d	Lu-172	Lu-175	3.9 E-4
529 (0.06)	66 h	Mo-99	Mo-100	1.9 E-4
529 (0.5)	93.1 d	Eu-149	Eu-151	7.0 E-5
529 (2)	39.5 h	Au-194	Au-197	1.5 E-3
529 (31)	86.2 d	Rb-83	Rb-85, Sr-84	1.9 E-3
530 (1)	2.4 h	Br-83	Rb-87	2.3 E-3
530 (1)	3.6 m	Gd-161	Gd-160	5.0 E-3
531 (0.1)	4.54 d	Ca-47	Ca-48	3.7 E-6
531 (0.9)	14 m	Tc-101	Ru-102, Mo-100	1.5 E-3
531 (12)	10.98 d	Nd-147	Nd-148	6.5 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
531 (0.06)	46.75 h	Sm-153	Sm-154	2.6 E-3
532 (0.3)	39 h	Ge-69	Ge-70, Se-74	3.6 E-2
532 (0.09)	69.6 m	Te-129	Te-130	1.7 E-2
532 (1)	9.25 d	Tm-167	Tm-169, Yb-168	3.5 E-3
533 (10)	19.5 m	Tb-163	Dy-164	3.6 E-2
534 (66)	5.35 d	Tb-156	Tb-159	7.9 E-4
535 (3)	2.13 h	Ba-129m	Ba-130	6.3 E-4
536 (0.05)	93.1 d	Eu-149	Eu-151	7.0 E-6
536 (0.7)	6.7 d	Lu-172	Lu-175	6.8 E-5
537 (87)	7.6 m	In-111m	In-113, Sn-112	4.2 E-7
537 (0.1)	35.3 m	Sn-111	Sn-112	1.4 E-3
537 (0.001)	18.56 h	Gd-159	Gd-160	4.4 E-5
537 (31)	6.24 d	Bi-206	Bi-209	9.0 E-4
538 (0.03)	18 m	Se-81	Se-82	1.6 E-4
538 (0.7)	55 m	Cd-105	Cd-106	3.9 E-4
539 (0.3)	38 d	Re-184	Re-185	6.0 E-4
539 (14)	2.8 d	Pt-191	Pt-192	7.4 E-3
540 (7)	15.8 s	Tc-100	Ru-101	3.1 E-1
540 (78)	20 h	Rh-100	Pd-102	2.0 E-2
540 (1)	6.7 d	Lu-172	Lu-175	9.9 E-5
541 (9)	1.73 h	Nd-149	Nd-150	2.4 E-1
542 (0.1)	4.8 h	Ga-73	Ge-74	8.6 E-4
543 (3)	3.85 d	Sb-127	Te-128	4.5 E-4
543 (15)	2.13 h	Ba-129m	Ba-130	8.4 E-4
543 (15)	30.8 m	Pt-199	Pt-198	w
545 (19)	4.23 h	Sb-129	Te-130	6.2 E-3
545 (6)	14 m	Tc-101	Ru-102, Mo-100	9.6 E-3
545 (4)	4.4 d	Rh-101	Pd-102, Rh-103	3.5 E-2
545 (2)	19.5 m	Tb-163	Dy-164	7.2 E-3
545 (4)	11 h	Pt-189	Pt-190	3.9 E-3
546 (0.7)	17 h	Ce-135	Ce-136	6.5 E-2
546 (0.2)	2.35 h	Dy-165	Dy-164	1.9 E-3
547 (11)	2.13 h	Ba-129m	Ba-130	2.3 E-3
547 (2)	93.1 d	Tm-168	Tm-169	3.4 E-3
548 (14)	9.13 h	Zn-62	Zn-64	1.1 E-2
549 (0.05)	74 m	Nb-97	Mo-98	3.5 E-4
549 (4)	32.06 h	Cs-129	Ba-130	5.2 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
549 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
550 (0.4)	23.6 h	Hf-173	Hf-174	7.6 E-5
550 (3)	5.37 d	Pm-148	Sm-149	5.1 E-4
550 (93)	41.3 d	Pm-148m	Sm-149	1.8 E-4
550 (0.9)	9.59 h	Dy-155	Dy-156	1.3 E-4
551 (16)	54 d	Eu-148	Eu-151	5.0 E-4
551 (0.4)	18.7 m	Eu-159	Gd-160	1.6 E-3
551 (0.4)	6.7 d	Lu-172	Lu-175	3.9 E-5
551 (5)	23.8 h	W-187	W-186	5.5 E-3
552 (0.06)	18 m	Se-81	Se-82	3.2 E-4
552 (2)	1.65 h	Ru-95	Ru-96	3.4 E-1
552 (0.05)	35.3 m	Sn-111	Sn-112	7.0 E-4
552 (0.01)	69.6 m	Te-129	Te-130	1.9 E-3
553 (0.6)	39 h	Ge-69	Ge-70, Se-74	7.2 E-3
553 (16)	86.2 d	Rb-83	Rb-85, Sr-84	1.1 E-3
553 (100)	38 m	In-117	Sn-118	1.1 E-1
554 (2)	26.4 h	As-76	As-75, Se-77	2.6 E-3
554 (70)	35.34 h	Br-82	Br-81, Rb-87	3.5 E-3
554 (61)	6.3 h	Rb-82m	Sr-84	3.7 E-3
554 (16)	2.13 h	Ba-129m	Ba-130	3.4 E-3
556 (98)	1.02 m	Rb-86m	Rb-87, Sr-87	1.1 E+1
556 (60)	9.5 h	Sr-91	Zr-96	w
556 (96)	49.7 m	Y-91m	Zr-92	5.0 E-1
556 (2)	42 s	Rh-104	Rh-103, Pd-105	2.6
556 (0.2)	4.4 m	Rh-104m	Rh-103, Pd-105	1.8 E-2
556 (92)	69.2 h	Ag-104	Cd-106	8.5 E-4
556 (60)	33.5 m	Ag-104m	Cd-106	7.9 E-3
556 (1)	1.73 h	Nd-149	Nd-150	2.6 E-2
557 (2)	206 d	Rh-102	Rh-103, Pd-104	9.1 E-4
557 (0.8)	39.35 d	Ru-103	Ru-104	1.4 E-3
557 (0.1)	33.6 d	Te-129m	Te-130	7.0 E-5
557 (0.2)	93.1 d	Tm-168	Tm-169	3.5 E-4
557 (1)	30 h	Os-193	Os-192	1.0 E-4
558 (17)	11.3 h	Ge-77	Se-82	4.1 E-5
558 (0.002)	13.46 h	Pd-109	Pd-110	8.1 E-3
558 (3)	49.5 d	In-114m	In-115, Sn-115	7.1 E-3
558 (0.06)	93.1 d	Eu-149	Eu-151	8.4 E-6

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
558 (0.3)	1.37 a	Lu-173	Lu-175, Hf-174	2.0 E-5
558 (30)	12.1 d	Ir-190	Ir-191	2.2 E-1
559 (44)	26.4 h	As-76	As-75, Se-77	5.7 E-2
560 (?)	9.59 h	Dy-155	Dy-156	?
560 (0.007)	69.6 m	Te-129	Te-130	1.3 E-3
560 (0.02)	18.56 h	Gd-159	Gd-160	8.8 E-4
560 (2)	198.5 m	Tb-163	Dy-164	7.2 E-3
560 (9)	40 h	Hg-195m	Hg-196	2.1 E-4
562 (70)	171 d	Ir-194m	Ir-193, Pt-195	3.8 E-3
564 (0.2)	35.3 m	Sn-111	Sn-112	2.8 E-3
564 (70)	2.7 d	Sb-122	Sb-123, Te-123	1.8
566 (0.15)	18 m	Se-81	Se-82	8.1 E-4
566 (3)	8.47 h	Pd-101	Pd-102	2.5
566 (7)	2.13 h	Ba-129m	Ba-130	1.4 E-3
566 (0.1)	2.35 h	Dy-165	Dy-164	9.4 E-4
567 (0.3)	6.47 d	Cs-132	Cs-133	7.2 E-3
568 (1)	22 m	Rh-107	Pd-108	5.5 E-3
569 (1)	56 h	Br-77	Br-79	2.2 E-3
569 (56)	23.4 h	Nb-96	Mo-97	4.3 E-2
569 (28)	12.1 d	Ir-190	Ir-191	2.0 E-1
569 (4)	11 h	Pt-189	Pt-190	3.9 E-3
570 (0.01)	270 d	Co-57	Ni-58, Co-59	6.1 E-6
570 (0.8)	2.9 d	Ru-97	Ru-98	3.0 E-3
570 (98)	38 a	Bi-207	Bi-209	2.7 E-4
571 (0.9)	39 m	Se-73m	Se-74	2.9 E-2
571 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
572 (11)	17 h	Ce-135	Ce-136	4.1 E-3
572 (0.2)	26.4 h	As-76	As-75, Se-77	2.6 E-4
572 (0.04)	120 d	Se-75	Se-76	5.2 E-6
573 (80)	16.8 d	Te-121	Te-122	1.7 E-2
573 (2)	15.15 h	Eu-157	Gd-158	2.4 E-4
574 (13)	39 h	Ge-69	Ge-70, Se-74	1.5 E-1
574 (?)	40.27 h	La-140	La-139	?
574 (84)	31 a	Hf-178n	Hf-179	w
575 (0.08)	2.35 h	Dy-165	Dy-164	7.6 E-4
575 (2)	3.8 h	Ir-195m	Pt-196	3.0 E-4
576 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
576 (0.1)	2.8 d	Pt-191	Pt-192	5.3 E-5
577 (5)	17 h	Ce-135	Ce-136	1.9 E-3
577 (0.3)	6.7 d	Lu-172	Lu-175	2.9 E-5
578 (0.03)	68.3 m	Ga-68	Ga-69, Ge-70	2.7 E-2
578 (3)	39 m	Se-73m	Se-74	1.0 E-1
579 (3)	56 h	Br-77	Br-79	6.6 E-3
579 (0.15)	1.73 h	Nd-149	Nd-150	3.9 E-3
579 (80)	18.7 h	Au-200m	Hg-201	4.2 E-6
581 (59)	5.9 m	Rh-108m	Pd-110	w
581 (0.06)	18.56 h	Gd-159	Gd-160	2.6 E-3
582 (0.49)	6.24 d	Bi-206	Bi-209	1.4 E-5
582 (35)	60 d	Tc-95m	Ru-96	5.6 E-4
584 (0.18)	5.37 h	Ag-113	Cd-114	9.4 E-5
584 (0.3)	3.85 d	Sb-127	Te-128	4.5 E-5
584 (52)	36 a	Eu-150	Eu-151	7.3 E-5
584 (7)	19.5 m	Tb-163	Dy-164	2.5 E-2
584 (0.08)	2.8 d	Pt-191	Pt-192	4.2 E-5
585 (0.4)	6.7 d	Lu-172	Lu-175	3.9 E-5
585 (2)	9.5 h	Hg-195	Hg-196	1.5 E-3
585 (13)	59.6 s	Na-25	Mg-26	4.7 E-1
585 (1)	56 h	Br-77	Br-79	2.2 E-3
586 (0.4)	8.3 d	Ag-106m	Ag-107	1.7 E-4
586 (85)	17.5 s	K-47	Ca-48	3.6 E-2
586 (0.2)	10 h	Os-183m	Os-184	2.0 E-5
587 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
588 (0.2)	39 h	Ge-69	Ge-70, Se-74	2.4 E-3
588 (87)	4.16 m	Zr-89m	Zr-90	1.8 E+2
588 (6)	20 h	Rh-100	Pd-102	1.6 E-3
588 (0.1)	2.8 d	Pt-191	Pt-192	5.3 E-5
589 (0.3)	39 m	Se-73m	Se-74	9.6 E-3
589 (1)	3.3 h	Cu-61	Cu-63	1.2 E-2
589 (0.6)	32.06 h	Cs-129	Ba-130	7.8 E-5
589 (0.4)	18.7 m	Eu-159	Gd-160	1.6 E-3
589 (4)	74 d	Ir-192	Ir-193	5.2 E-3
589 (0.1)	19.4 h	Ir-194	Ir-193, Pt-195	9.3 E-5
590 (12)	8.47 h	Pd-101	Pd-102	1.0 E+1
591 (1)	23.4 h	Nb-96	Mo-97	7.9 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
591 (17)	14.6 m	Mo-101	Mo-100	9.4 E-3
591 (5)	15.8 s	Tc-100	Ru-101	2.1 E-1
591 (1)	1.65 h	Ru-95	Ru-96	1.7 E-1
591 (1)	20 h	Rh-100	Pd-102	1.7 E-2
592 (5)	8.5 a	Eu-154	Eu-153, Gd-155	9.5 E-6
592 (1)	94 d	Os-185	Os-186	3.6 E-5
593 (3)	3.1 h	Er-161	Er-162	6.3 E-3
594 (13)	22.2 h	K-43	Ca-44	5.2 E-3
594 (3)	7.7 h	Tm-166	Tm-169	1.1 E-4
595 (0.2)	10.98 d	Nd-147	Nd-148	1.1 E-4
595 (0.6)	6.7 d	Lu-172	Lu-175	5.8 E-5
596 (99)	8.3 m	Ga-74	Ge-76	4.6 E-3
596 (60)	17.77 d	As-74	As-75, Se-76, Br-79	4.0 E-1
596 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3
597 (24)	9.13 h	Zn-62	Zn-64	1.9 E-2
597 (16)	2.13 h	Ba-129m	Ba-130	3.4 E-3
598 (?)	1.73 h	Nd-149	Nd-150	?
598 (0.08)	8.1 h	Dy-157	Dy-158	2.9 E-5
599 (12)	41.3 d	Pm-148m	Sm-149	2.4 E-5
599 (2)	15.2 d	Eu-156	Gd-157	1.9 E-5
600 (2)	9.5 h	Hg-195	Hg-196	1.6 E-3
601 (5)	14.1 h	Ga-72	Ge-73, Ga-71	6.5 E-3
601 (2)	8.3 d	Ag-106m	Ag-107	8.4 E-4
601 (18)	2.77 a	Sb-125	Te-126	1.5 E-5
601 (62)	171 d	Ir-194m	Ir-193, Os-195	3.3 E-3
602 (0.9)	18.7 m	Eu-159	Gd-160	3.7 E-3
603 (0.01)	13.46 h	Pd-109	Pd-110	4.1 E-2
603 (98)	60.3 d	Sb-124	Te-125, Sb-123	3.5 E-4
603 (20)	1.6 m	Sb-124m	Te-125	w
604 (4)	3.85 d	Sb-127	Te-128	6.0 E-4
604 (8)	74 d	Ir-192	Ir-193	1.1 E-2
604 (0.3)	20 h	Tc-95	Ru-96	2.4 E-3
605 (0.4)	20 h	Rh-100	Pd-102	1.0 E-4
605 (98)	2.05 a	Cs-134	Cs-133, Ba-135	7.2 E-4
605 (5)	6.8 m	La-134	Ce-136	?
605 (39)	12.1 d	Ir-190	Ir-191	2.7 E-1
606 (8)	34.9 h	Kr-79	Sr-84	w

Tab. 5-5, continued

E, keV	(I%)	T	Nuclide	Target Nuclide	N · I
606	(2)	14.4 m	In-112	In-113	1.0 E-1
606	(22)	17 h	Ce-135	Ce-136	8.1 E-3
607	(3)	3.12 h	Ag-112	Cd-113	4.8 E-4
607	(4)	55 m	Cd-105	Cd-106	2.2 E-3
607	(0.6)	6.7 d	Lu-172	Lu-175	5.8 E-5
608	(16)	8.3 m	Ga-74	Ge-76	7.5 E-4
608	(0.6)	17.77 d	As-74	As-75, Se-76, Br-79	4.1 E-3
608	(4)	19.5 m	Tb-163	Dy-164	1.4 E-2
608	(5)	11 h	Pt-189	Pt-190	4.9 E-3
610	(5)	39.35 d	Ru-103	Ru-104	8.5 E-3
611	(6)	41.3 d	Pm-148m	Sm-149	1.2 E-5
611	(19)	54 d	Eu-148	Eu-151	8.3 E-5
612	(0.1)	8.47 h	Pd-101	Pd-102	8.4 E-2
612	(5)	74 d	Ir-192	Ir-193	6.5 E-3
613	(1)	18.4 m	Eu-159	Gd-160	4.1 E-3
614	(54)	1.5 h	As-78	Se-80	1.2 E-2
614	(14)	6.46 m	Br-78	Br-79	7.3 E+3
616	(20)	2.2 h	Rh-106m	Pd-108	1.3 E-1
616	(22)	8.3 d	Ag-106m	Ag-107	9.2 E-3
616	(99)	9.9 m	Os-190m	Os-192	1.8 E-2
616	(1)	60 d	Tc-95m	Ru-96	1.6 E-5
617	(87)	22.2 h	K-43	Ca-44	3.5 E-2
617	(7)	17.6 m	Br-80	Br-81, Rb-85	4.9 E+3
617	(0.2)	24 m	Ag-106	Ag-107, Cd-108	2.2
617	(42)	3.12 h	Ag-112	Cd-113	6.8 E-3
617	(94)	3.1 h	Ir-190m	Ir-191	2.6
617	(6)	14.4 m	In-112	In-113	3.1 E-1
618	(0.004)	120 d	Se-75	Se-76	5.2 E-2
618	(0.06)	83 m	Ge-75	Ge-76, Se-80	1.1 E-2
618	(1)	41.2 d	Ag-105	Ag-107, Cd-106	2.6 E-4
618	(0.01)	18.56 h	Gd-159	Gd-160	4.4 E-4
618	(6)	21.8 h	W-187	W-186	6.6 E-3
619	(0.3)	2.41 m	Ag-108	Ag-109, Cd-110	1.4
619	(44)	35.34 h	Br-82	Br-81, Rb-87	2.1 E-3
619	(37)	6.3 h	Rb-82m	Sr-84	2.3 E-3
619	(0.04)	8.47 h	Pd-101	Pd-102	3.4 E-2
619	(14)	16.8 s	Rh-108	Pd-109	w

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
619 (4)	15.15 h	Eu-157	Gd-158	4.8 E-4
620 (57)	3.9 h	Zn-71m	Ge-76	7.4 E-4
620 (0.03)	12.6 h	Eu-150m	Eu-151	1.8 E-3
620 (6)	6.24 d	Bi-206	Bi-209	1.8 E-4
621 (0.09)	2.35 h	Dy-165	Dy-164	8.3 E-4
621 (2)	39.5 h	Au-194	Au-197	1.5 E-3
622 (0.4)	17 h	Ce-135	Ce-136	1.5 E-4
622 (10)	30 s	Rh-106	Pd-108	1.3 E-3
622 (0.9)	7.6 m	Tb-162	Dy-163	3.1 E-3
622 (0.7)	66.9 m	Pb-204m	Pb-206	2.7 E-4
623 (0.3)	24 m	Ag-106	Ag-107, Cd-108	3.3
624 (0.09)	69.6 m	Te-129	Te-130	1.7 E-2
624 (37)	36 m	Er-159	Er-162	w
624 (1)	2.8 d	Pt-191	Pt-192	5.3 E-4
626 (0.09)	3.1 h	Er-161	Er-162	1.9 E-4
626 (0.3)	6.7 d	Lu-172	Lu-175	2.9 E-5
626 (1)	23.8 h	W-187	W-186	1.1 E-3
627 (0.4)	14 m	Tc-101	Ru-102, Mo-100	6.4 E-4
627 (18)	1.65 h	Ru-95	Ru-96	3.1
627 (1)	11 h	Pt-189	Pt-190	1.0 E-3
628 (5)	206 d	Rh-102	Rh-103, Pd-104	2.4 E-3
629 (3)	4.6 m	Ho-169	Er-170	4.3 E-2
630 (25)	14.1 h	Ga-72	Ge-73, Ga-71	3.2 E-2
630 (10)	26 h	As-72	Se-74	1.0 E-4
630 (1)	6.47 d	Cs-132	Cs-133	2.2 E-2
630 (0.2)	1.73 h	Nd-149	Nd-150	5.2 E-3
630 (89)	41.3 d	Pm-148m	Sm-149	1.7 E-4
630 (71)	54 d	Eu-148	Eu-151	3.3 E-4
630 (1)	19.5 m	Tb-163	Dy-164	3.6 E-3
630 (29)	4.3 m	Tc-102m	Ru-104	w
631 (56)	2.9 a	Rh-102	Rh-103, Pd-104	4.7 E-4
631 (0.3)	6.7 d	Lu-172	Lu-175	2.9 E-5
631 (4)	12.1 d	Ir-190	Ir-191	2.8 E-2
632 (8)	11.3 h	Ge-77	Se-82	1.9 E-5
632 (8)	93.1 d	Tm-168	Tm-169	1.4 E-2
632 (4)	6.24 d	Bi-206	Bi-209	1.2 E-4
633 (2)	2.41 m	Ag-108	Ag-109, Cd-110	9.8

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
633 (0.6)	2.35 h	Dy-165	Dy-164	5.7 E-3
633 (1)	16.98 h	Re-188	Re-187, Os-189	5.8 E-3
633 (23)	41.5 h	Ir-188	Ir-191, Pt-190	1.8 E-4
635 (15)	17.77 d	As-74	As-75, Se-76, Br-79	1.0 E-1
635 (0.5)	55 m	Cd-105	Cd-106	2.8 E-4
636 (0.01)	13.46 h	Pd-109	Pd-110	6.0 E-2
636 (12)	2.77 a	Sb-125	Te-126	9.4 E-6
636 (0.9)	1.37 a	Lu-173	Lu-175, Hf-174	5.9 E-5
637 (3)	4.4 m	In-118m	Sn-119	1.4 E-4
637 (0.2)	206 d	Rh-102	Rh-103, Pd-104	9.3 E-5
638 (0.4)	3.58 d	Sb-127	Te-128	6.1 E-5
640 (0.2)	17.6 m	Br-80	Br-81, Rb-85	1.4 E+2
641 (1)	9.59 h	Dy-155	Dy-156	1.5 E-4
642 (2)	38 d	Re-184	Re-185	4.0 E-3
644 (84)	16 h	Te-119	Te-120	4.3 E-3
644 (0.2)	6.7 d	Lu-172	Lu-175	1.9 E-5
645 (12)	41.2 d	Ag-105	Ag-107, Cd-106	3.1 E-3
645 (1)	19.4 h	Ir-194	Ir-193, Pt-195	9.5 E-4
645 (2)	39.5 h	Au-194	Au-197	1.5 E-3
646 (1)	8.3 d	Ag-106m	Ag-107	4.3 E-4
646 (7)	60.3 d	Sb-124	Te-125, Sb-123	2.5 E-5
646 (20)	1.6 m	Sb-124m	Te-125	w
646 (7)	15.2 d	Eu-156	Gd-157	6.6 E-5
646 (0.4)	18.7 m	Eu-159	Gd-160	1.6 E-3
646 (16)	(5 h)	Ho-160	Er-162	?
646 (1)	93.1 d	Tm-168	Tm-169	1.7 E-3
646 (82)	94 d	Os-185	Os-186	3.0 E-3
647 (0.02)	13.46 h	Pd-109	Pd-110	8.0 E-2
648 (2)	55 m	Cd-105	Cd-106	1.1 E-3
649 (0.7)	3.1 h	Er-161	Er-162	1.4 E-3
649 (28)	36 m	Er-159	Er-162	w
650 (0.01)	18 m	Se-81	Se-82	5.5 E-5
652 (0.4)	3.85 d	Sb-127	Te-128	6.0 E-5
653 (0.01)	33 h	Sr-83	Sr-84	2.8 E-6
653 (48)	65 s	Mo-91m	Mo-92	6.7
653 (1)	1.65 h	Ru-95	Ru-96	1.7 E-1
654 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
655 (0.7)	20 h	Rh-100	Pd-102	1.8 E-4
655 (8)	1.73 h	Nd-149	Nd-150	2.1 E-1
656 (0.4)	39 m	Se-73m	Se-74	1.3 E-2
656 (10)	3.3 h	Cu-61	Cu-63	1.3 E-1
656 (4.48)	2.13 h	Ba-129m	Ba-130	9.4 E-4
656 (1)	12.1 d	Ir-190	Ir-191	7.1 E-3
657 (6)	26.4 h	As-76	As-75, Se-77	7.6 E-3
657 (2)	6.24 d	Bi-206	Bi-209	5.8 E-5
658 (5)	24.6 s	Ag-110	Ag-109, Cd-111	7.0 E-1
658 (94)	250.4 d	Ag-110m	Ag-109, Cd-111	3.9 E-5
658 (98)	69.1 m	In-110	Sn-112	9.8 E-2
658 (99)	4.9 h	In-110m	Sn-112	1.1 E-2
658 (33)	3.62 h	Pb-202m	Pb-204	9.0 E-5
659 (0.4)	33 h	Sr-83	Sr-84	1.1 E-4
659 (98)	74 m	Nb-97	Mo-98	1.9
659 (0.01)	109 d	Te-127m	Te-128	1.4 E-5
660 (1)	18.7 m	Eu-159	Gd-160	4.1 E-3
661 (0.5)	48.4 m	Au-200	Hg-201	1.6 E-4
662 (90)	2.55 m	Ba-137m	Ba-138, La-138	6.2 E+1
662 (0.08)	56 h	Br-77	Br-79	1.8 E-4
664 (3)	17 h	Ce-135	Ce-136	1.1 E-3
664 (2)	9.59 h	Dy-155	Dy-156	3.0 E-4
665 (3)	18.7 m	Eu-159	Gd-160	1.3 E-2
665 (0.2)	26.4 h	As-76	As-75, Se-77	2.6 E-4
666 (42)	15.2 s	As-80	Se-82	w
666 (1)	17.6 m	Br-80	Br-81, Rb-85	6.9 E+2
666 (100)	12.4 d	Sb-126	Te-128	8.5 E-6
666 (34)	13 d	I-126	I-127	3.8 E-1
667 (0.3)	35 a	Eu-150	Eu-151	w
668 (0.5)	3.85 d	Sb-127	Te-128	7.5 E-5
668 (100)	6.47 d	Cs-132	Cs-133	2.4
668 (0.2)	3.1 h	Ho-167	Er-168	2.4 E-4
669 (?)	60.2 d	Sb-124	Te-125, Sb-123	?
670 (9)	38.4 m	Zn-63	Zn-64	3.9
670 (2)	22 m	Rh-107	Pd-108	1.1 E-2
672 (0.02)	33.6 d	Te-129m	Te-130	1.4 E-5
672 (0.1)	16.93 h	Re-188	Re-187, Os-189	5.9 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
673 (1)	5.37 h	Ag-113	Cd-114	5.2 E-4
673 (9)	7.7 h	Tm-166	Tm-169	3.2 E-4
674 (0.08)	33 h	Sr-83	Sr-84	2.2 E-5
674 (0.1)	93.1 d	Tm-168	Tm-169	1.7 E-4
676 (0.4)	5.98 h	Pr-145	Nd-146	4.4 E-4
676 (0.5)	36 a	Eu-150	Eu-151	?
676 (4)	4.6 m	Ho-169	Er-170	5.6 E-2
676 (1)	2.695 d	Au-198	Au-197, Hg-199	8.8 E-4
677 (2)	18.7 m	Eu-159	Gd-160	8.2 E-3
678 (11)	250.4 d	Ag-110m	Ag-109, Cd-111	4.6 E-6
679 (15)	2.13 h	Ba-129m	Ba-130	2.3 E-3
679 (0.2)	9.58 h	Dy-155	Dy-156	3.0 E-5
680 (2)	8.3 d	Ag-106m	Ag-107	8.4 E-4
681 (0.6)	206 d	Rh-102	Rh-103, Pd-104	2.8 E-4
681 (0.7)	5.37 h	Ag-113	Cd-114	3.6 E-4
681 (0.7)	52.1 h	Pb-203	Pb-204	9.6 E-4
682 (0.5)	3.85 d	Sb-127	Te-128	7.5 E-5
682 (2)	18.7 m	Eu-159	Gd-160	8.2 E-3
682 (1.2)	72.1 d	Tb-160	Tb-159, Dy-161	5.2 E-5
682 (0.7)	6.7 d	Lu-172	Lu-175	6.8 E-5
683 (55)	4.4 m	In-118m	Sn-119	2.6 E-3
683 (0.1)	16 h	Te-119	Te-120	5.1 E-6
684 (0.4)	17 h	Ce-135	Ce-136	1.5 E-4
684 (6)	4.32 h	Sb-129	Te-130	2.0 E-3
685 (100)	6.9 h	Mo-93m	Mo-94	3.2 E-1
685 (13)	3.8 h	Ir-195m	Pt-196	2.0 E-2
686 (36)	3.85 d	Sb-127	Te-128	5.4 E-3
686 (0.7)	10.98 d	Nd-147	Nd-148	3.8 E-4
686 (26)	23.8 h	W-187	W-186	2.8 E-2
686 (2)	1.5 h	As-78	Se-80	4.3 E-4
687 (0.8)	20 h	Rh-100	Pd-102	2.0 E-4
687 (1)	15.15 h	Eu-157	Gd-158	1.2 E-4
687 (0.008)	2.8 d	Pt-191	Pt-192	4.2 E-6
688 (59)	171 d	Ir-194m	Ir-193, Pt-195	3.2 E-3
689 (4)	2.13 h	Ba-129m	Ba-130	8.4 E-4
689 (0.9)	12.4 a	Eu-152	Eu-153	7.6 E-6
690 (0.2)	12.1 d	Ir-190	Ir-191	1.4 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
691 (0.3)	3.1 h	Er-161	Er-162	1.4 E-3
691 (7)	7.7 h	Tm-166	Tm-169	6.3 E-4
692 (0.2)	270 d	Co-57	Ni-58, Co-59	2.5 E-4
693 (4)	2.7 d	Sb-122	Sb-123, Te-123	1.2 E-4
694 (4)	3.12 h	Ag-112	Cd-113	1.0 E-1
694 (0.5)	18.7 m	Eu-159	Gd-160	6.4 E-4
694 (0.01)	2.35 h	Dy-165	Dy-164	2.1 E-3
695 (18)	1.5 h	As-78	Se-80	9.5 E-5
695 (0.1)	6.46 m	Br-78	Br-79	3.9 E-3
695 (100)	12.4 d	Sb-126	Te-128	5.2 E+1
695 (0.2)	9.59 h	Dy-155	Dy-156	8.3 E-6
696 (3)	33.6 d	Te-129m	Te-130	3.0 E-5
696 (1)	17.3 m	Pr-144	Nd-145	2.1 E-3
697 (44)	2.9 a	Rh-102m	Rh-103, Pd-104	6.8 E-2
697 (2)	7.6 m	Tb-162	Dy-163	3.7 E-4
697 (6)	6.7 d	Lu-172	Lu-175	6.8 E-3
697 (?)	6.24 d	Bi-206	Bi-209	5.8 E-4
698 (29)	35.34 h	Br-82	Br-81, Rb-87	?
698 (0.02)	6.1 m	Br-82m	Br-81	1.5 E-3
699 (4)	3.85 d	Sb-127	Te-128	1.1 E+1
700 (10)	16 h	Te-119	Te-120	6.0 E-4
701 (2.4)	2.13 h	Ba-129m	Ba-130	5.1 E-4
701 (99)	2.5 m	Fe-53m	Fe-54, Ni-58	5.1 E-4
702 (0.003)	13.46 h	Pd-109	Pd-110	1.6 E-3
702 (0.02)	33.6 d	Te-129m	Te-130	1.2 E-2
702 (0.02)	8.74 h	Pd-101	Pd-102	1.4 E-5
703 (0.3)	39 m	Se-73m	Se-74	1.7 E-2
703 (100)	4.9 h	Tc-94	Ru-96	9.6 E-3
703 (5)	2.2 h	Rh-106m	Pd-108	5.0 E-2
703 (4)	8.3 d	Ag-106m	Ag-107	3.3 E-2
703 (0.3)	55 m	Cd-105	Cd-106	1.7 E-3
703 (0.3)	15.9 m	Sb-120	Sb-121	1.7 E-4
704 (0.2)	17.6 m	Br-80	Br-81, Rb-85	2.3
705 (10)	7.7 h	Tm-166	Tm-169	1.4 E+2
707 (0.002)	13.46 h	Pd-109	Pd-110	3.5 E-4
707 (16)	250.4 d	Ag-110m	Ag-109, Cd-111	8.0 E-3
708 (26)	5.5 h	Nd-139m	Nd-142	6.6 E-6

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
702 (0.02)	33.6 d	Te-129m	Te-130	1.4 E-5
702 (0.02)	8.74 h	Pd-101	Pd-102	1.7 E-2
703 (0.3)	39 m	Se-73m	Se-74	9.6 E-3
703 (100)	4.9 h	Tc-94	Ru-96	5.0 E-2
703 (5)	2.2 h	Rh-106m	Pd-108	3.3 E-2
703 (4)	8.3 d	Ag-106m	Ag-107	1.7 E-3
703 (0.3)	55 m	Cd-105	Cd-106	1.7 E-4
703 (0.3)	15.9 m	Sb-120	Sb-121	2.3
704 (0.2)	17.6 m	Br-80	Br-81, Rb-85	1.4 E+2
705 (10)	7.7 h	Tm-166	Tm-169	3.5 E-4
707 (0.002)	13.46 h	Pd-109	Pd-110	8.0 E-3
707 (16)	250.4 d	Ag-110m	Ag-109, Cd-111	6.6 E-6
708 (26)	5.5 h	Nd-139m	Nd-142	6.0 E-5
709 (20)	57.7 m	Cd-104	Cd-106	w
709 (0.9)	15.2 d	Eu-156	Gd-157	8.1 E-4
709 (0.7)	6.7 d	Lu-172	Lu-175	6.8 E-5
710 (0.1)	55 m	Cd-105	Cd-106	5.7 E-5
710 (0.08)	22 m	Rh-107	Pd-108	4.4 E-4
712 (3)	2.13 h	Ba-129m	Ba-130	6.3 E-4
712 (1)	36 a	Eu-150	Eu-151	?
714 (8)	11.3 h	Ge-77	Se-82	1.9 E-5
714 (0.06)	33 h	Sr-83	Sr-84	1.7 E-5
715 (0.2)	8.2 m	As-79	Se-80	2.6 E-3
715 (2)	53 d	Eu-148	Eu-151	8.6 E-6
715 (0.5)	2.35 h	Dy-165	Dy-164	4.8 E-3
716 (0.06)	14 m	Tc-101	Ru-102, Mo-100	9.4 E-5
716 (29)	8.3 d	Ag-106m	Ag-107	1.2 E-2
717 (30)	2.2 h	Rh-106m	Pd-108	2.0 E-1
717 (4)	94 d	Os-185	Os-186	1.5 E-4
718 (0.2)	3.12 h	Ag-112	Cd-113	3.2 E-5
719 (0.3)	23.6 h	Hf-173	Hf-174	5.7 E-5
719 (0.4)	17 h	Ce-135	Ce-136	1.5 E-4
719 (0.1)	74 m	Nb-97	Mo-98	1.9 E-3
720 (0.2)	3.08 h	Ti-45	Ti-46	5.9 E-3
720 (7)	23.4 h	Nb-96	Mo-97	5.4 E-3
720 (58)	12.5 d	Sb-126	Te-128	5.0 E-6
720 (0.2)	18.7 m	Eu-159	Gd-160	8.3 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
720 (11)	93.1 d	Tm-168	Tm-169	1.8 E-2
721 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
721 (6)	11 h	Pt-189	Pt-190	5.9 E-3
722 (2)	3.85 d	Sb-127	Te-128	3.0 E-4
723 (75)	51 m	Nb-98	Mo-100	4.1 E-3
723 (11)	60.3 d	Sb-124	Te-125, Sb-123	4.0 E-5
723 (19.1)	8.5 a	Eu-154	Eu-153, Gd-155	3.6 E-5
723 (6)	15.2 d	Eu-156	Gd-157	5.6 E-5
723 (0.5)	6.7 d	Lu-172	Lu-175	4.8 E-5
724 (0.06)	8.2 m	As-79	Se-80	7.8 E-4
724 (44)	64 d	Zr-95	Zr-96	2.3 E-2
724 (48)	4.44 h	Ru-105	Ru-104	9.6 E-3
724 (2)	8.47 h	Pd-101	Pd-102	1.6
725 (0.2)	39 m	Se-73m	Se-74	6.4 E-3
725 (3)	49.5 d	In-114m	In-115, Sn-115	6.6 E-3
726 (32)	41.3 d	Pm-148m	Sm-149	6.4 E-5
726 (12)	54 d	Eu-148	Eu-151	5.1 E-5
726 (0.7)	18.7 m	Eu-159	Gd-160	2.9 E-3
726 (4)	12.1 d	Ir-190	Ir-191	2.4 E-2
727 (0.7)	3.1 h	Er-161	Er-162	1.5 E-3
728 (30)	5 h	Ho-160m	Er-162	?
730 (0.7)	33.6 d	Te-129m	Te-130	4.9 E-4
731 (4)	93.1 d	Tm-168	Tm-169	6.8 E-3
732 (0.06)	33 h	Sr-83	Sr-84	1.7 E-5
733 (0.2)	18.7 m	Eu-159	Gd-160	8.2 E-4
734 (0.2)	77.3 d	Co-56	Ni-58	2.6 E-6
734 (0.1)	206 d	Rh-102	Rh-103, Pd-104	4.7 E-5
735 (0.4)	1.65 h	Ru-95	Ru-96	6.8 E-2
735 (0.3)	20 h	Rh-100	Pd-102	7.8 E-5
735 (0.4)	20 h	Pt-189	Pt-190	3.9 E-4
737 (0.2)	33 h	Sr-83	Sr-84	5.6 E-5
737 (0.002)	13.46 h	Pd-109	Pd-110	8.2 E-3
737 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
737 (0.3)	14 h	Os-183	Os-184	8.2 E-6
737 (9)	36 a	Eu-150	Eu-151	1.3 E-5
738 (35)	5.5 h	Nd-139m	Nd-142	8.0 E-5
739 (6)	4.8 h	Ga-73	Ge-74	5.1 E-2

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
739 (13)	66 h	Mo-99	Mo-100	4.0 E-2
740 (0.2)	26.4 h	As-76	As-75, Se-77	2.6 E-4
740 (0.5)	206 d	Rh-102	Rh103, Pd-104	2.4 E-4
741 (7)	69.2 h	Ag-104	Cd-106	6.4 E-5
741 (0.03)	69.6 m	Te-129	Te-130	5.7 E-3
741 (0.03)	33.6 d	Te-129m	Te-130	2.1 E-5
741 (11)	93.1 d	Tm-168	Tm-169	1.9 E-2
742 (39)	265 d	Pm-143	Sm-144	6.6 E-4
743 (98)	53 s	Nb-97m	Mo-98	1.1
743 (0.6)	41.2 d	Ag-105	Ag-107, Cd-106	1.6 E-4
744 (85)	5.7 d	Mn-52	Fe-54	1.4 E-4
744 (1)	18.7 m	Eu-159	Gd-160	4.1 E-3
744 (0.4)	9.59 h	Dy-155	Dy-156	6.0 E-5
745 (0.2)	3.1 h	Ho-167	Er-168	0.4 E-4
745 (0.3)	23.8 h	W-187	W-186	3.3 E-4
746 (0.5)	55 m	Cd-105	Cd-106	2.8 E-4
746 (0.1)	3.85 d	Sb-127	Te-128	1.5 E-5
748 (0.5)	8.47 h	Pd-101	Pd-102	4.2 E-1
748 (20)	2.2 h	Rh-106m	Pd-108	1.3 E-1
748 (21)	8.3 d	Ag-106m	Ag-107	8.8 E-3
748 (0.3)	93.1 d	Tm-168	Tm-169	5.1 E-4
748 (0.4)	5.98 h	Pr-145	Nd-146	4.4 E-4
749 (2)	1.65 h	Ru-95	Ru-961	3.4 E-1
749 (1)	20 h	Rh-100	Pd-102	2.6 E-4
749 (7)	2.13 h	Ba-129m	Ba-130	1.4 E-3
750 (8)	6 a	Eu-150	Eu-151	1.2 E-5
750 (48)	6.1 d	Ni-56	Ni-58	9.8 E-4
752 (4)	40.2 h	La-140	La-139	4.8 E-4
752 (0.4)	15.15 h	Eu-157	Gd-158	4.8 E-5
753 (0.1)	33 h	Sr-83	Sr-84	2.8 E-5
754 (4)	13 d	I-126	I-127	4.4 E-2
754 (93)	56.5 s	Ce-139m	Ce-140	1.3 E+2
754 (0.04)	1.73 h	Nd-149	Nd-150	1.0 E-3
754 (90)	65 s	Sm-143m	Sm-144	1.2
754 (1)	18.7 m	Eu-159	Gd-160	4.1 E-3
755 (0.5)	6.24 d	Bi-206	Bi-209	1.5 E-5
756 (2)	56 h	Br-77	Br-79	4.4 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N * I
757 (?)	2.246 m	Al-28	Si-29, P-31, Al-27	?
757 (55)	64 d	Zr-95	Zr-96	2.7 E-2
757 (91)	62 s	Nd-141m	Nd-142	5.0
757 (4.1)	8.5 a	Eu-154	Eu-153, Gd-155	7.8 E-6
759 (6)	69.2 h	Ag-104	Cd-106	5.5 E-5
759 (0.04)	6.2 d	Au-196	Au-197	1.0 E-3
760 (0.3)	9.9 m	La-136	La-138	6.9 E-4
760 (74)	18.7 h	Au-200m	Hg-201	3.9 E-6
760 (0.1)	9.59 h	Dy-155	Dy-156	1.5 E-5
761 (11)	4.6 m	Ho-169	Er-170	1.6 E-1
761 (0.7)	37.3 m	Sn-111	Sn-112	9.7 E-3
762 (0.2)	34.4 h	Ce-137m	Ce-138	9.0 E-6
762 (0.2)	39 h	Ge-69	Ge-70, Se-74	2.4 E-3
763 (30)	33 h	Sr-83	Sr-84	8.4 E-3
763 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3
763 (100)	2.3 m	In-119	Sn-120	1.1 E-1
764 (22)	250.4 d	Ag-110m	Ag-109, Cd-111	9.0 E-6
765 (2)	72.1 d	Tb-160	Tb-159, Dy-161	8.6 E-5
765 (4)	(5 h)	Ho-160m	Er-162	?
766 (100)	35.15 d	Nb-95	Mo-96, Zr-96	2.6 E-3
766 (93)	20 h	Tc-95	Ru-96	7.4 E-1
767 (0.2)	4.54 d	Ca-47	Ca-48	7.4 E-6
767 (34)	2.9 a	Rh-102m	Rh-103, Pd-104	2.8 E-4
767 (66)	69.2 h	Ag-104	Cd-106	6.1 E-4
768 (2)	4.8 h	Ga-73	Ge-74	1.8 E-2
769 (0.3)	16 h	Te-119	Te-120	5.1 E-6
769 (0.003)	33.6 d	Te-129m	Te-130	2.1 E-6
769 (3)	2.13 h	Ba-129m	Ba-130	6.3 E-4
769 (2)	12.1 d	Ir-190	Ir-191	1.4 E-2
770 (0.5)	39 m	Se-73m	Se-74	1.6 E-2
770 (0.7)	38 d	Re-184	Re-185	1.4 E-3
772 (0.1)	26.4 h	As-76	As-75, Se-77	1.3 E-4
772 (0.08)	6.47 d	Cs-132	Cs-133	1.9 E-3
773 (4)	23.8 h	W-187	W-186	4.4 E-3
777 (83)	35.34 h	Br-82	Br-81, Rb-87	4.1 E-3
777 (0.2)	6.1 m	Br-82m	Br-81	1.1 E+2
777 (14)	1.3 m	Rb-82	Sr-84	5.3 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
777 (83)	6.3 h	Rb-82m	Sr-84	5.1 E-3
778 (2)	33 h	Sr-83	Sr-84	5.6 E-4
778 (97)	23.4 h	Nb-96	Mo-97	7.5 E-2
778 (4)	66 h	Mo-99	Mo-100	1.3 E-2
778 (100)	4.3 d	Tc-96	Ru-98	2.6 E-4
778 (2)	52 m	Tc-96m	Ru-98	2.6 E-6
778 (11)	4.6 m	Ho-169	Er-170	1.6 E-1
779 (13)	12.4 a	Eu-152	Eu-153	1.1 E-4
779 (20)	7.7 h	Tm-166	Tm-169	7.0 E-4
780 (9)	150 a	Tb-158	Tb-159	2.0 E-5
780 (8)	9.5 h	Hg-195	Hg-196	6.2 E-3
781 (0.01)	13.46 h	Pd-109	Pd-110	4.1 E-2
781 (7)	2.13 h	Ba-129m	Ba-130	1.5 E-3
783 (10)	17 h	Ce-135	Ce-136	3.7 E-3
784 (15)	3.85 d	Sb-127	Te-128	2.3 E-3
784 (0.5)	6.24 d	Bi-206	Bi-209	1.5 E-5
786 (9)	60 d	Tc-95m	Ru-96	1.4 E-4
786 (9)	69.2 h	Ag-104	Cd-106	8.2 E-5
786 (0.5)	26 h	As-72	Se-74	5.0 E-6
786 (10)	7.7 h	Tm-166	Tm-169	3.5 E-4
787 (100)	53 m	Cs-135m	Ba-136	7.7 E-4
787 (3)	14.1 d	Ga-72	Ge-73, Ga-71	3.9 E-3
787 (93)	51 m	Nb-98	Mo-100	5.0 E-3
787 (50)	3.62 h	Pb-202m	Pb-204	1.4 E-4
788 (0.3)	77.3 d	Co-56	Ni-58	3.9 E-6
788 (0.4)	39 h	Ge-69	Ge-70, Se-74	4.8 E-3
788 (0.3)	16 h	Te-119	Te-120	3.3 E-5
789 (?)	2.58 h	Mn-56	Mn-55, Fe-57	?
789 (2)	1.44 m	Pr-138	Pr-141	w
789 (99)	2.02 h	Pr-138m	Pr-141	w
790 (0.7)	86.2 d	Rb-83	Rb-85, Sr-84	4.5 E-5
790 (0.09)	22 m	Rh-107	Pd-108	5.0 E-4
790 (0.08)	3.85 d	Sb-127	Te-128	1.2 E-5
790 (0.02)	8.47 h	Pd-101	Pd-102	1.7 E-2
792 (38)	38 d	Re-184	Re-185	7.6 E-2
793 (6)	8.3 d	Ag-106m	Ag-107	2.6 E-3
793 (0.01)	2.7 d	Sb-122	Sb-123, Te-123	2.6 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
793 (0.8)	11 h	Pt-189	Pt-190	7.8 E-4
796 (5)	2.06 a	Cs-134	Cs-133, Ba-135	6.1 E-4
796 (0.6)	7.5 h	Er-171	Er-170	1.4 E-4
797 (0.06)	6.5 h	Cd-107	Cd-108	6.0 E-5
799 (0.1)	3.1 h	Er-161	Er-162	2.1 E-4
799 (0.1)	86.2 d	Rb-83	Rb-85, Sr-84	6.3 E-5
801 (1)	3.8 h	Ir-195m	Pt-196	1.5 E-4
802 (0.2)	69.6 m	Te-129	Te-130	3.8 E-2
803 (10)	2.13 h	Ba-129m	Ba-130	2.0 E-3
803 (99)	6.24 d	Bi-206	Bi-209	2.9 E-3
804 (12)	8.3 d	Ag-106m	Ag-107	5.0 E-3
804 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
805 (3)	2.2 h	Rh-106m	Pd-108	8.5 E-2
805 (0.02)	33 h	Sr-83	Sr-84	5.6 E-6
805 (3)	18.7 m	Eu-159	Gd-160	1.3 E-2
806 (0.09)	68.3 m	Ga-68	Ga-69, Ge-70	8.1 E-2
806 (4)	1.65 h	Ru-95	Ru-96	6.8 E-1
807 (43)	7.6 m	Tb-162	Dy-163	1.5 E-1
807 (1)	41.2 d	Ag-105	Ag-107, Cd-106	2.6 E-4
808 (7)	4.54 d	Ca-47	Ca-48	2.6 E-4
808 (4)	8.3 d	Ag-106m	Ag-107	1.7 E-3
809 (0.3)	3.1 h	Er-161	Er-162	6.3 E-4
810 (2)	14.1 h	Ga-72	Ge-73, Ga-71	2.6 E-3
810 (10)	23.4 h	Nb-96	Mo-97	7.6 E-3
810 (0.3)	12.4 a	Eu-152	Eu-153	2.5 E-6
810 (16)	6.7 d	Lu-172	Lu-175	1.6 E-3
811 (100)	70.78 d	Co-58	Co-59, Ni-60, Cu-63	1.4 E-1
812 (10)	15.2 d	Eu-156	Gd-157	9.3 E-5
812 (75)	6.1 d	Ni-56	Ni-58	1.6 E-3
812 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
812 (0.3)	3.1 h	Er-161	Er-162	6.1 E-4
813 (82)	4.3 d	Tc-96	Ru-98	2.1 E-4
813 (0.004)	17.6 m	Br-80	Br-81, Rb-85	2.8
813 (46)	4.32 h	Sb-129	Te-130	1.5 E-2
814 (3)	4.4 m	In-118m	Sn-119	1.4 E-4
814 (?)	107 d	Y-88	Y-89, Zr-90	?
816 (0.1)	3.12 h	Ag-112	Cd-113	1.6 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
816 (23)	40.2 h	La-140	La-139	2.7 E-3
816 (46)	93.1 d	Tm-168	Tm-169	7.8 E-2
816 (1)	6.7 d	Lu-172	Lu-175	1.0 E-4
817 (0.03)	39 h	Ge-69	Ge-70, Se-74	3.6 E-4
817 (0.3)	3.3 h	Cu-61	Cu-63	3.6 E-3
817 (0.4)	3.84 d	Sb-127	Te-128	6.0 E-5
817 (0.09)	33.6 d	Te-129m	Te-130	6.3 E-5
818 (100)	13 d	Cs-136	Ba-137	1.1 E-3
818 (2)	56 h	Br-77	Br-79	4.4 E-3
819 (0.8)	33 h	Sr-83	Sr-84	2.2 E-4
819 (0.6)	1.65 h	Ru-95	Ru-96	1.0 E-1
819 (12)	54 m	In-116m1	In-115, Sn-117	1.1
819 (3)	9.9 m	La-136	La-138	7.0 E-3
820 (4)	2.13 h	Ba-129m	Ba-130	8.4 E-4
821 (0.2)	3.85 d	Sb-127	Te-128	3.1 E-5
821 (5)	60 d	Tc-95m	Ru-96	7.8 E-5
821 (0.02)	8.47 h	Pd-101	Pd-102	1.7 E-2
821 (11)	93.1 d	Tm-168	Tm-169	1.9 E-2
821 (0.3)	9.5 h	Hg-195	Hg-196	2.3 E-4
823 (0.1)	66 h	Mo-99	Mo-100	3.1 E-4
823 (21)	20 h	Rh-100	Pd-102	5.5 E-3
824 (0.01)	56 h	Br-77	Br-79	2.2 E-5
825 (15)	8.3 d	Ag-106m	Ag-107	6.3 E-3
825 (0.4)	34.4 h	Ce-137m	Ce-138	1.8 E-5
826 (0.1)	9.59 h	Dy-155	Dy-156	1.5 E-5
827 (61)	3.1 h	Er-161	Er-162	1.3 E-1
828 (8)	1.5 h	As-78	Se-80	1.7 E-3
828 (0.3)	18 m	Se-81	Se-82	1.7 E-3
828 (26)	35.34 h	Br-82	Br-81, Sr-87	1.3 E-3
828 (1)	14.6 h	Nb-90	Mo-92	3.8 E-4
828 (5)	17 h	Ce-135	Ce-136	1.9 E-3
828 (10)	5.5 h	Nd-139	Nd-142	2.3 E-5
829 (0.2)	6.5 h	Cd-107	Cd-108	2.0 E-4
829 (4)	12.1 d	Ir-190	Ir-191	2.9 E-2
830 (0.6)	18.7 m	Eu-159	Gd-160	2.5 E-3
830 (6)	93.1 d	Tm-168	Tm-169	1.0 E-2

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
830 (0.4)	16.98 h	Re-188	Re-187, Os-189	2.4 E-3
832 (1)	34.9 h	Kr-79	Sr-84	w
832 (0.2)	12.6 h	Eu-150m	Eu-151	1.2 E-2
833 (0.04)	69.6 m	Te-129	Te-130	7.6 E-3
833 (1)	19.5 m	Tb-163	Dy-164	3.6 E-3
834 (6)	3 m	Cu-69	Zn-70	1.9 E-3
834 (96)	14.1 h	Ga-72	Ge-73, Ga-71	1.2 E-1
834 (100)	26 h	As-72	Se-74	1.0 E-3
834 (0.04)	33.6 d	Te-129m	Te-130	2.8 E-5
834 (3)	2.13 h	Ba-129m	Ba-130	6.3 E-4
835 (100)	312.2 d	Mn-54	Mn-55, Fe-56, Co-59	2.0 E-2
835 (30)	60 d	Tc-95m	Ru-96	4.8 E-4
835 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
835 (0.1)	34.4 h	Ce-137m	Ce-138	4.5 E-6
835 (100)	43 s	V-54	Cr-54	w
837 (0.02)	22 m	Rh-107	Pd-108	1.1 E-4
839 (1)	12.1 d	Ir-190	Ir-191	7.1 E-3
840 (96)	53 m	Cs-135m	Ba-136	7.4 E-4
840 (0.7)	10 h	Os-183m	Os-184	7.0 E-5
841 (0.2)	3.3 h	Cu-61	Cu-63	2.4 E-3
841 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
841 (0.7)	9.5 h	Hg-195	Hg-196	5.9 E-4
841 (0.4)	12.4 a	Eu-152	Eu-153	3.4 E-6
842 (1)	1.65 h	Ru-95	Ru-96	1.7 E-1
842 (13)	9.3 h	Eu-152m2	Eu-153	9.8 E-2
843 (0.2)	14 m	Tc-101	Ru-102, Mo-100	3.2 E-4
844 (0.3)	16 h	Te-119	Te-120	1.5 E-5
844 (72)	9.46 m	Mg-27	Al-27	1.7 E-1
845 (0.1)	17 h	Ce-135	Ce-136	3.8 E-5
845 (0.03)	22 m	Rh-107	Pd-108	1.7 E-4
845 (0.03)	33.6 d	Te-129m	Te-130	2.1 E-5
847 (99)	2.58 h	Mn-56	Mn-55, Fe-57	3.7 E-1
847 (99)	77.3 d	Co-56	Ni-58	1.3 E-3
848 (4)	8.3 d	Ag-106m	Ag-107	1.7 E-3
848 (3)	5.7 d	Mn-52	Fe-54	5.1 E-6
848 (0.2)	33 h	Sr-83	Sr-84	5.5 E-5
849 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
850 (21)	23.4 h	Nb-96	Mo-97	1.6 E-2
850 (98)	4.9 h	Tc-94	Ru-96	4.9 E-2
850 (97)	4.3 d	Tc-96	Ru-98	2.5 E-4
851 (0.9)	39 m	Se-73m	Se-74	2.9 E-2
851 (1)	3.12 h	Ag-112	Cd-113	1.6 E-4
851 (4)	14 h	Os-183	Os-184	1.0 E-4
853 (12)	4.6 m	Ho-169	Er-170	1.7 E-1
854 (0.2)	33 h	Sr-83	Sr-84	5.5 E-5
854 (0.1)	8.47 h	Pd-101	Pd-102	8.4 E-2
857 (17)	12.4 d	Sb-126	Te-128	1.4 E-6
858 (10)	69.2 h	Ag-104	Cd-106	9.2 E-5
858 (6)	15.2 m	Tm-175	Yb-176	1.8 E-2
859 (0.1)	53.1 h	Pm-149	Sm-150	8.1 E-5
862 (0.2)	3.12 h	Ag-112	Cd-113	3.2 E-5
863 (7)	69.2 h	Ag-104	Cd-106	6.4 E-5
864 (1)	70.78 d	Co-58	Co-59, Ni-60, Cu-63	1.4 E-3
865 (0.6)	7.1 h	Se-73	Se-74	9.1 E-4
865 (1)	3.1 h	Er-161	Er-162	2.1 E-3
865 (0.3)	23.8 h	W-187	W-186	3.3 E-4
866 (5)	4.6 m	Ho-169	Er-170	7.0 E-2
867 (?)	36 h	Ni-57	Ni-58	?
867 (4)	12.4 a	Eu-152	Eu-153	3.3 E-5
867 (1)	15.2 d	Eu-156	Gd-157	9.6 E-6
868 (6)	40.2 h	La-140	La-139	7.2 E-4
869 (2)	36 a	Eu-150	Eu-151	2.8 E-6
870 (5)	54 d	Eu-148	Eu-151	2.1 E-5
870 (0.08)	9.3 h	Eu-152m	Eu-153	6.0 E-4
871 (0.2)	6.26 m	Nb-94m	Mo-95, Nb-93	1.6 E-2
871 (100)	4.9 h	Tc-94	Ru-96	5.0 E-2
871 (94)	53 m	Tc-94m	Ru-96	7.0 E-3
871 (3)	17 h	Ce-135	Ce-136	1.1 E-3
871 (0.2)	18.7 m	Eu-159	Gd-160	8.2 E-4
872 (9)	39 h	Ge-69	Ge-70, Se-74	1.1 E-1
872 (0.2)	72.1 d	Tb-160	Tb-159, Dy-161	8.6 E-6
873 (0.2)	24 m	Ag-106	Ag-107, Cd-108	2.2
873 (6)	2.13 h	Ba-129m	Ba-130	1.2 E-3
873 (11)	8.5 a	Eu-154	Eu-153, Gd-155	2.0 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
875 (7)	94 d	Os-185	Os-186	2.6 E-4
876 (0.2)	9.76 m	Cu-62	Cu-63, Zn-64	1.6
876 (2)	4.6 m	Ho-169	Er-170	2.8 E-4
878 (0.02)	64.9 d	Sr-85	Sr-86	2.0 E-6
879 (2)	8.2 m	As-79	Se-80	2.5 E-2
879 (2)	10 h	Os-183m	Os-184	2.0 E-4
879 (30)	72.1 d	Tb-160	Tb-159, Dy-161	1.3 E-3
879 (20)	(5 h)	Ho-160m	Er-162	?
879 (0.1)	23.8 h	W-187	W-186	1.1 E-4
880 (0.8)	13 d	I-126	I-127	8.8 E-3
880 (5)	94 d	Os-185	Os-186	1.8 E-4
881 (0.1)	8.47 h	Pd-101	Pd-102	8.4 E-2
881 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3
881 (67)	6.24 d	Bi-206	Bi-209	2.0 E-3
882 (74)	34.5 d	Rb-84	Rb-85, Sr-86	2.0 E-1
882 (13)	7.6 m	Tb-162	Dy-163	4.4 E-2
884 (0.3)	5.37 h	Ag-113	Cd-114	1.6 E-4
885 (0.6)	55 m	Cd-105	Cd-106	3.3 E-4
885 (73)	250.4 d	Ag-110m	Ag-109, Cd-111	3.0 E-5
885 (95)	4.9 h	In-110m	Sn-112	1.1 E-2
887 (0.03)	17.77 d	As-74	As-75, Se-76, Br-79	2.0 E-4
888 (39)	7.6 m	Tb-162	Dy-163	1.4 E-2
889 (1)	1.5 h	As-78	Se-80	2.2 E-4
889 (100)	84 d	Sc-46	Ti-47, Sc-45	2.1 E-3
889 (0.2)	33 h	Sr-83	Sr-84	5.5 E-5
889 (2)	1.65 h	Ru-95	Ru-96	3.4 E-1
891 (2)	14.6 h	Nb-90	Mo-92	7.6 E-4
891 (0.5)	9.59 h	Dy-155	Dy-156	7.7 E-5
892 (21)	51.8 m	Ru-94	Ru-96	?
893 (21)	2.13 h	Ba-129m	Ba-130	4.4 E-3
894 (10)	14.1 h	Ga-72	Ge-73, Ga-71	1.3 E-2
894 (0.8)	26 h	As-72	Se-74	8.0 E-6
894 (8)	15.2 m	Tm-175	Yb-176	2.6 E-2
895 (3)	13 h	Re-182m	Re-185	w
895 (16)	38 d	Re-184	Re-185	3.2 E-2
895 (15)	6.24 d	Bi-206	Bi-209	4.3 E-4
896 (0.7)	3.1 h	Er-161	Er-162	1.4 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
898 (0.1)	38 a	Bi-207	Bi-209	2.7 E-7
898 (?)	36 h	Ni-57	Ni-58	?
898 (14)	17.8 m	Rb-88	Rb-87	1.4 E-2
898 (91)	108 d	Y-88	Y-89, Zr-90	1.0 E-1
898 (0.06)	6.5 h	Cd-107	Cd-108	6.0 E-5
898 (0.3)	150 a	Tb-158	Tb-159	6.6 E-7
899 (1)	23.6 h	Hf-173	Hf-174	1.9 E-4
899 (0.6)	1.9 h	Yb-177	Yb-176	1.1 E-4
899 (99)	66.9 m	Pb-204m	Pb-206	3.8 E-2
901 (28)	6.7 d	Lu-172	Lu-175	2.8 E-3
903 (38)	38 d	Re-184	Re-185	7.6 E-2
906 (2)	17 h	Ce-135	Ce-136	7.4 E-4
906 (2)	9.59 h	Dy-155	Dy-156	3.0 E-4
906 (0.2)	32.06 h	Cs-129	Ba-130	2.6 E-5
907 (0.09)	36 h	Ni-57	Ni-58	9.0 E-4
908 (0.4)	33 h	Sr-83	Sr-84	1.1 E-4
908 (?)	20 h	Rh-100	Pd-102	?
908 (0.6)	7.5 h	Er-171	Er-170	1.5 E-4
909 (1)	3.3 h	Cu-61	Cu-63	1.2 E-2
909 (99)	16 s	Y-89m	Zr-90, Y-89	5.1
909 (99)	78.4 h	Zr-89	Zr-90	1.6
910 (0.07)	154 d	Te-121m	Te-122	5.3 E-7
911 (0.07)	9.5 h	Hg-195	Hg-196	5.4 E-5
912 (96)	66.9 m	Pb-204m	Pb-206	3.5 E-2
912 (2)	10.5 d	Nb-92m	Nb-93, Mo-94	1.1 E-2
912 (1)	63.6 h	Tm-172	Yb-173	5.5 E-5
912 (15)	6.7 d	Lu-172	Lu-175	1.5 E-3
913 (0.04)	39 h	Ge-69	Ge-70, Se-74	4.8 E-4
913 (6)	4.7 d	Te-119m	Te-120	2.3 E-5
914 (13)	5.37 d	Pm-148	Sm-149	2.9 E-4
915 (0.08)	8.47 h	Pd-101	Pd-102	6.7 E-2
915 (21)	4.32 h	Sb-129	Te-130	7.0 E-3
915 (19)	41.3 d	Pm-148m	Sm-149	3.8 E-5
915 (2)	54 d	Eu-148	Eu-151	8.3 E-6
915 (3)	93.1 d	Tm-168	Tm-169	5.1 E-3
916 (7)	4.9 h	Tc-94	Ru-96	3.5 E-3
916 (0.07)	9 h	Ce-137	Ce-138	4.5 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
916 (0.2)	18.7 m	Eu-159	Gd-160	8.3 E-4
917 (0.1)	33 h	Sr-83	Sr-84	2.8 E-5
919 (56)	19 m	Y-94	Zr-96	1.7 E-1
920 (2)	40.2 h	La-140	La-139	2.4 E-4
920 (0.1)	17.7 m	Yb-167	Yb-168	9.2 E-4
921 (8)	165 d	Re-184m	Re-185	?
922 (0.2)	12.6 h	Eu-150m	Eu-151	1.2 E-2
924 (0.5)	3.85 d	Sb-127	Te-128	7.5 E-5
924 (0.7)	11.5 d	Ba-131	Ba-132	1.0 E-5
925 (99)	69.2 h	Ag-104	Cd-106	8.3 E-4
925 (7)	40.2 h	La-140	La-139	8.4 E-4
928 (1)	15.97 d	V-48	Cr-50, V-50	3.2 E-6
928 (0.6)	115 d	Ta-182	W-183, Ta-181	1.4 E-5
929 (0.6)	9.59 h	Dy-155	Dy-156	9.5 E-5
929 (3)	6.7 d	Lu-172	Lu-175	2.9 E-4
931 (0.6)	16.8 h	Re-188	Re-187, Os-189	3.6 E-3
931 (0.03)	206 d	Rh-102	Rh-103, Pd-104	1.4 E-5
931 (2)	54 d	Eu-148	Eu-151	8.3 E-6
931 (0.05)	94 d	Os-185	Os-186	1.8 E-6
931 (0.5)	9.5 h	Hg-195	Hg-196	3.8 E-4
932 (2)	3.1 h	Er-161	Er-162	4.2 E-3
934 (1)	55 m	Cd-105	Cd-106	5.5 E-4
934 (2)	44.8 d	Cd-115m	Cd-116	4.8 E-6
935 (14)	3.54 h	Y-92	Zr-94	1.4 E-3
935 (99)	10.5 d	Nb-92	Nb-93, Mo-94	5.4 E-1
935 (6)	2.13 h	Ba-129m	Ba-130	1.3 E-3
936 (84)	5.7 d	Mn-52	Fe-54	1.4 E-4
936 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3
937 (34)	250.4 d	Ag-110m	Ag-109, Cd-111	1.5 E-5
937 (70)	4.9 h	In-110m	Sn-112	7.7 E-3
937 (11)	68 m	Ho-162m	Ho-165	4.0 E-2
939 (0.6)	19.4 h	Ir-194	Ir-193, Pt-195	5.5 E-4
939 (1)	39.5 h	Au-194	Au-197	7.6 E-4
940 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
941 (0.1)	3.1 h	Er-161	Er-162	2.1 E-4
941 (14)	15.2 m	Tm-175	Yb-176	4.2 E-2
942 (38)	21.1 h	Mg-28	Si-30	w

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
942 (5)	5 h	Mo-90	Mo-92	7.5 E-4
942 (25)	69.2 h	Ag-104	Cd-106	2.3 E-4
942 (5)	4.7 d	Te-119m	Te-120	2.0 E-5
942 (1)	1.9 h	Yb-177	Yb-176	1.8 E-4
944 (9)	15.97 d	V-48	Cr-50, V-50	3.6 E-5
944 (1)	15.2 d	Eu-156	Gd-157	9.3 E-6
944 (43)	150 a	Tb-158	Tb-159	9.5 E-5
945 (0.2)	33 h	Sr-83	Sr-84	5.6 E-5
947 (2)	10.1 h	Y-93	Zr-94	2.2 E-3
948 (2)	20 h	Tc-95	Ru-96	1.6 E-2
948 (0.9)	55 m	Cd-105	Cd-106	5.0 E-6
948 (2)	39.5 h	Au-194	Au-197	1.5 E-3
951 (0.6)	40.2 h	La-140	La-139	7.2 E-5
953 (19)	10.3 m	Y-95	Zr-96	7.7 E-1
954 (0.2)	35.3 m	Sn-111	Sn-112	2.8 E-3
955 (2)	10 h	Os-183m	Os-184	2.0 E-4
957 (5)	2.13 h	Ba-129m	Ba-130	1.0 E-3
960 (0.4)	115 d	Ta-182	W-183, Ta-181	1.0 E-5
960 (1)	15.2 d	Eu-156	Gd-157	9.4 E-6
960 (0.3)	12.2 d	Tl-202	Tl-203	4.3 E-4
961 (0.1)	66 h	Mo-99	Mo-100	3.1 E-4
961 (92)	3.62 h	Pb-202m	Pb-204	2.5 E-4
962 (5)	55 m	Cd-105	Cd-106	2.7 E-3
962 (7)	38.4 m	Zn-63	Zn-64	7.3
962 (20)	150 a	Tb-158	Tb-159	4.4 E-5
962 (9)	72.1 d	Tb-160	Tb-159, Dy-161	3.9 E-4
962 (18)	5 h	Ho-160m	Er-162	?
962 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
963 (12)	9.3 h	Eu-152m2	Eu-153	9.0 E-2
964 (14)	12.4 a	Eu-152	Eu-153	1.1 E-4
965 (0.3)	17 h	Ce-135	Ce-136	1.1 E-4
965 (0.02)	8.47 h	Pd-101	Pd-102	1.7 E-2
966 (25)	72.1 d	Tb-160	Tb-159, Dy-161	1.1 E-3
966 (16)	5 h	Ho-160m	Er-162	?
966 (8)	4.32 h	Sb-129	Te-130	2.7 E-3
967 (3)	54 d	Eu-148	Eu-151	1.2 E-5
968 (0.2)	6.7 d	Lu-172	Lu-175	1.9 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
971 (1)	14.1 h	Ga-72	Ge-73, Ga-71	1.3 E-3
973 (0.3)	3.1 h	Er-161	Er-162	6.3 E-4
975 (15)	59.6 s	Na-25	Mg-26	5.4 E-1
976 (3)	4.7 d	Te-119m	Te-120	1.2 E-5
977 (1)	77.3 d	Co-56	Ni-58	1.3 E-5
979 (3)	4.7 d	Te-119	Te-120	1.2 E-5
980 (0.3)	3.1 h	Er-161	Er-162	6.3 E-4
982 (0.02)	2.5 h	Nd-141	Nd-142	3.2 E-3
982 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
982 (0.02)	69.6 m	Te-129	Te-130	3.8 E-3
982 (26)	5.5 h	Nd-139m	Nd-142	6.0 E-5
982 (11)	15.2 m	Tm-175	Yb-176	3.3 E-2
983 (100)	15.97 d	V-48	Cr-50, V-50	3.2 E-4
984 (100)	43.67 h	Sc-48	Ti-49	3.1 E-2
986 (82)	43 s	V-54	Cr-54	w
987 (0.2)	55 m	Cd-105	Cd-106	1.1 E-4
988 (0.9)	41.5 h	Ir-188	Ir-189	6.8 E-6
989 (0.1)	15.9 m	Sb-120	Sb-121	7.6 E-1
989 (0.3)	22.2 h	K-43	Ca-44	?
989 (0.4)	5.37 h	Ag-113	Cd-114	2.1 E-4
989 (0.01)	9.5 h	Hg-195	Hg-196	7.6 E-6
990 (1)	5 h	Mo-90	Mo-92	1.5 E-4
990 (0.6)	1.65 h	Ru-95	Ru-96	1.0 E-1
992 (0.7)	142 d	Lu-174m	Lu-175	6.1 E-5
993 (0.07)	8.2 m	As-79	Se-80	9.1 E-4
993 (1)	8.47 h	Pd-101	Pd-102	8.4 E-3
994 (0.3)	39 m	Se-73m	Se-74	9.6 E-3
994 (0.02)	17.77 d	As-74	As-75, Se-76, Br-79	1.4 E-4
994 (0.7)	33 h	Sr-83	Sr-84	2.0 E-4
996 (10)	8.5 a	Eu-154	Eu-153, Gd-155	1.9 E-5
998 (0.4)	55 m	Cd-105	Cd-106	2.2 E-4
1000 (0.8)	14.1 h	Ga-72	Ge-73, Ga-71	1.1 E-3
1000 (8)	2.13 h	Ba-129m	Ba-130	1.7 E-3
1000 (3)	9.59 h	Dy-155	Dy-156	4.5 E-5
1002 (1)	2.44 d	Sc-44m	Sc-45, Ti-46	1.6 E-3
1002 (2)	115 d	Ta-182	W-183, Ta-181	4.8 E-5
1003 (0.2)	39 m	Se-73m	Se-74	6.4 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1003 (1)	72.1 d	Tb-160	Tb-159, Dy-161	4.3 E-5
1003 (5)	6.7 d	Lu-172	Lu-175	4.8 E-4
1005 (17)	8.5 a	Eu-154	Eu-153, Gd-155	3.2 E-5
1005 (1)	56 h	Br-77	Br-79	2.2 E-3
1006 (89)	1.6 m	V-53	Cr-54	3.5 E-1
1007 (10)	3 m	Cu-69	Zn-70	3.3 E-3
1007 (0.2)	55 m	Cd-105	Cd-106	8.8 E-5
1009 (0.03)	9.5 h	Hg-195	Hg-196	2.3 E-5
1011 (0.7)	1.65 h	Ru-95	Ru-96	1.2 E-1
1011 (0.07)	3.1 h	Er-161	Er-162	1.5 E-4
1012 (86)	2.5 m	Fe-53m	Fe-54, Ni-58	1.4 E-3
1012 (13)	14.6 m	Mo-101	Mo-100	7.3 E-3
1013 (2)	4.7 d	Te-119m	Te-120	7.8 E-6
1013 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
1014 (20)	43.3 d	Pm-148m	Sm-149	4.0 E-5
1015 (30)	9.46 m	Mg-27	Al-27	7.2 E-2
1015 (0.02)	8.47 h	Pd-101	Pd-102	1.7 E-2
1015 (0.5)	18.7 m	Eu-159	Gd-160	2.1 E-3
1016 (0.5)	34.5 d	Rb-84	Rb-85, Sr-86	1.3 E-3
1019 (8)	6.24 d	Bi-206	Bi-209	2.3 E-4
1020 (1)	8.3 d	Ag-106m	Ag-107	4.2 E-4
1020 (0.1)	6.46 m	Br-78	Br-79	5.2 E+1
1020 (0.07)	33 h	Sr-83	Sr-84	2.0 E-5
1021 (0.07)	3.1 h	Er-161	Er-162	1.4 E-4
1021 (0.2)	9.5 h	Hg-195	Hg-196	1.5 E-4
1022 (3)	22.2 h	K-43	Ca-44	1.2 E-3
1022 (1)	6.7 d	Lu-172	Lu-175	9.4 E-5
1023 (100)	5.76 d	Sb-120m	Sb-121	7.5 E-2
1023 (0.02)	33.6 d	Te-129m	Te-130	1.4 E-5
1023 (0.5)	38 d	Re-184	Re-185	9.8 E-4
1024 (36)	9.5 h	Sr-91	Zr-96	w
1025 (1)	74 m	Nb-97	Mo-98	1.9 E-2
1025 (0.9)	35 h	Sn-111	Sn-112	1.3 E-2
1028 (0.6)	1.90 h	Yb-177	Yb-176	1.1 E-4
1030 (13)	4.32 h	Sb-129	Te-130	4.3 E-3
1031 (0.1)	6.47 d	Cs-132	Cs-133	2.4 E-3
1032 (0.2)	55 m	Cd-105	Cd-106	1.1 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1034 (2)	20 h	Rh-100	Pd-102	5.2 E-4
1034 (8)	54 d	Eu-148	Eu-151	3.3 E-5
1035 (9)	2.13 h	Ba-129m	Ba-130	1.9 E-3
1035 (7)	10 h	Os-183m	Os-184	7.0 E-4
1036 (2)	12.1 d	Ir-190	Ir-191	1.4 E-2
1037 (0.1)	33 h	Sr-83	Sr-84	2.8 E-5
1037 (0.6)	17.7 m	Yb-167	Yb-168	5.4 E-3
1037 (0.8)	23.6 h	Hf-173	Hf-174	1.5 E-4
1038 (98)	43.67 h	Sc-48	Ti-49	3.1 E-2
1038 (0.04)	17 h	Ce-135	Ce-136	1.5 E-5
1038 (14)	77.3 d	Co-56	Ni-58	1.8 E-4
1038 (0.6)	55 m	Cd-105	Cd-106	3.3 E-4
1038 (100)	2.02 h	Pr-138m	Pr-141	w
1038 (0.2)	18.7 m	Eu-159	Gd-160	8.2 E-4
1039 (9)	5.1 m	Cu-66	Cu-65, Zn-67, Ga-71	1.4 E-1
1039 (0.5)	21.1 m	Ga-70	Ga-71, Ge-72, As-75	2.8 E-2
1039 (3)	60 d	Tc-95m	Ru-96	4.8 E-5
1041 (0.6)	6.7 d	Lu-172	Lu-175	5.8 E-5
1041 (0.3)	10 h	Os-183m	Os-184	3.0 E-5
1042 (0.06)	8.47 h	Pd-101	Pd-102	5.0 E-2
1043 (1)	55 m	Cd-105	Cd-106	5.5 E-5
1044 (9)	35.34 h	Br-82	Br-81, Rb-87	1.5 E-3
1044 (33)	6.3 h	Rb-82m	Sr-84	2.0 E-3
1044 (0.4)	33 h	Sr-83	Sr-84	1.1 E-4
1044 (0.5)	18.7 m	Eu-159	Gd-160	2.1 E-3
1044 (0.2)	115 d	Ta-182	W-183, Ta-181	4.8 E-6
1045 (16)	2.13 h	Ba-129m	Ba-130	3.4 E-3
1046 (30)	8.3 d	Ag-106m	Ag-107	1.2 E-2
1046 (0.1)	36 h	Ni-57	Ni-58	1.0 E-1
1047 (31)	2.2 h	Rh-106m	Pd-108	2.0 E-1
1047 (0.4)	206 d	Rh-102	Rh-103, Pd-104	1.9 E-4
1047 (34)	2.9 a	Rh-102m	Rh-103, Pd-104	2.9 E-4
1048 (3)	4.7 d	Te-119m	Te-120	1.2 E-5
1048 (80)	13 d	Cs-136	Ba-137	8.8 E-4
1048 (1)	11.5 d	Ba-131	Ba-132	1.5 E-5
1048 (0.08)	3.1 h	Er-161	Er-162	1.7 E-4
1049 (5)	6 a	Eu-150	Eu-151	7.2 E-6

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1049 (0.9)	39.4 h	Au-194	Au-197	6.8 E-4
1049 (0.02)	9.5 h	Hg-195	Hg-196	1.5 E-5
1050 (0.2)	24 m	Ag-106	Ag-107, Cd-108	2.2
1050 (0.02)	33.6 d	Te-129m	Te-130	1.4 E-5
1051 (82)	4.4 m	In-118m	Sn-119	3.7 E-3
1051 (7)	14.1 h	Ga-72	Ge-73, Ga-71	9.1 E-3
1051 (1)	26 h	As-72	Se-74	1.0 E-5
1051 (3)	1.65 h	Ru-95	Ru-96	5.2 E-1
1052 (0.07)	17 h	Ce-135	Ce-136	2.6 E-5
1052 (0.3)	39 h	Ge-69	Ge-70, Se-74	3.6 E-3
1055 (0.2)	33 h	Sr-83	Sr-84	5.6 E-5
1057 (2)	8.83 m	Sm-143	Sm-144	3.8 E-1
1060 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3
1062 (0.4)	9.59 h	Dy-155	Dy-156	6.0 E-5
1064 (0.7)	1.65 h	Ru-95	Ru-96	1.2 E-1
1064 (74)	38 a	Bi-207	Bi-209	2.0 E-4
1065 (5)	15.2 d	Eu-156	Gd-157	4.7 E-5
1065 (11)	5.35 d	Tb-156	Tb-159	1.4 E-4
1065 (0.1)	3.1 h	Er-161	Er-162	2.1 E-6
1067 (0.6)	7.6 m	Tb-162	Dy-163	2.0 E-3
1068 (0.5)	9.59 h	Dy-155	Dy-156	7.2 E-5
1069 (0.1)	72.1 d	Tb-160	Tb-159, Dy-161	4.3 E-6
1069 (3)	5 h	Ho-160m	Er-162	?
1072 (1)	55 m	Cd-105	Cd-106	5.7 E-4
1074 (4)	20 h	Tc-95	Ru-96	3.2 E-2
1077 (9)	18.7 d	Rb-86	Rb-87, Sr-87	1.8 E-2
1078 (100)	30 s	Cu-68	Zn-70	3.1 E-2
1078 (3)	68.3 m	Ga-68	Ga-69, Ge-70	2.7
1078 (2)	39 m	Se-73m	Se-74	6.4 E-2
1078 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3
1078 (0.08)	3.1 h	Er-161	Er-162	1.7 E-4
1079 (4)	15.2 d	Eu-156	Gd-157	3.8 E-5
1080 (2)	1.5 h	As-78	Se-80	4.4 E-4
1080 (0.09)	2.35 h	Dy-165	Dy-164	8.6 E-4
1080 (5)	1.9 h	Yb-177	Yb-176	9.5 E-4
1081 (2)	4.7 d	Te-119m	Te-120	7.8 E-6
1081 (1)	6.7 d	Lu-172	Lu-175	9.6 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1083 (0.08)	9.5 h	Hg-195	Hg-196	6.2 E-5
1084 (0.6)	69.6 m	Te-129	Te-130	1.2 E-2
1085 (?)	40.3 h	La-140	La-139	?
1086 (10)	12.4 a	Eu-152	Eu-153	8.3 E-5
1087 (0.1)	39 m	Se-73m	Se-74	3.2 E-2
1088 (0.2)	2.965 d	Au-198	Au-197, Hg-199	1.8 E-4
1088 (4)	41.2 d	Ag-105	Ag-107, Cd-106	1.0 E-3
1089 (0.6)	129.2 d	Sn-123	Sn-124	1.4 E-5
1090 (3)	10.5 m	Yb-165	Yb-168	3.6 E-3
1090 (2)	12.4 a	Eu-152	Eu-153	1.6 E-5
1090 (3)	9.59 h	Dy-155	Dy-156	4.5 E-4
1091 (?)	2.58 h	Mn-56	Mn-55, Fe-57	?
1091 (0.2)	6.2 d	Au-196	Au-197	5.2 E-3
1091 (49)	23.4 h	Nb-96	Mo-97	3.8 E-2
1094 (63)	6.7 d	Lu-172	Lu-175	6.1 E-3
1094 (6)	63.6 h	Tm-172	Yb-173	3.3 E-4
1095 (1)	18.7 m	Eu-159	Gd-160	4.1 E-3
1096 (2)	4.7 d	Te-119m	Te-120	7.8 E-6
1097 (3)	4.4 m	In-118m	Sn-119	1.4 E-4
1097 (22)	1.65 h	Ru-95	Ru-96	3.7
1097 (56)	54 m	In-116m1	In-115, Sn-117	5.1
1097 (1)	41.5 h	Ir-188	Ir-191	8.0 E-6
1098 (0.3)	33 h	Sr-83	Sr-84	8.4 E-5
1098 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
1098 (13)	6.24 d	Bi-206	Bi-209	3.8 E-4
1099 (56)	44.6 d	Fe-59	Fe-58, Ni-64	w
1100 (0.3)	3.3 h	Cu-61	Cu-63	3.6 E-3
1101 (0.01)	17.77 d	As-74	As-75, Se-76, Br-79	6.8 E-5
1102 (2)	154 d	Te-121m	Te-122	1.5 E-5
1102 (55)	10 h	Os-183m	Os-184	5.5 E-3
1103 (3)	206 d	Rh-102	Rh-103, Pd-104	1.4 E-3
1103 (0.6)	72.1 d	Tb-160	Tb-159, Dy-161	2.6 E-5
1104 (0.4)	3.2 h	Ag-112	Cd-113	6.4 E-5
1104 (2)	39.5 h	Au-194	Au-197	1.6 E-3
1106 (0.6)	16 h	Te-119	Te-120	3.1 E-5
1106 (0.5)	9.25 m	Ta-178	Ta-180, W-180	1.1 E-3
1107 (?)	62 m	Cl-34m	Cl-35	?

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1107 (28)	39 h	Ge-69	Ge-70, Se-74	3.3 E-1
1107 (15)	20 h	Rh-100	Pd-102	3.9 E-3
1108 (2)	150 a	Tb-158	Tb-159	4.4 E-6
1108 (25)	10 h	Os-183m	Os-184	2.6 E-3
1109 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3
1111 (0.2)	7.1 h	Se-73	Se-74	3.0 E-4
1111 (2)	9.5 h	Hg-195	Hg-196	1.6 E-3
1112 (0.2)	69.6 m	Te-129	Te-130	3.8 E-2
1112 (0.2)	33.6 d	Te-129m	Te-130	1.5 E-4
1112 (13)	12.4 a	Eu-152	Eu-153	1.1 E-4
1113 (17)	2.9 a	Rh-102m	Rh-103, Pd-104	1.4 E-4
1113 (0.9)	5.76 d	Sb-120m	Sb-121	6.8 E-4
1113 (2)	6.7 d	Lu-172	Lu-175	1.9 E-4
1113 (0.4)	115 d	Ta-182	W-183, Ta-181	9.6 E-6
1115 (1)	72.1 d	Tb-160	Tb-159, Dy-161	4.3 E-5
1115 (0.4)	9.59 h	Dy-155	Dy-156	6.0 E-5
1116 (51)	244 d	Zn-65	Zn-66, Ge-70	7.2 E-3
1117 (0.1)	74 m	Nb-97	Mo-98	1.9 E-3
1118 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
1120 (0.9)	1.65 h	Ru-95	Ru-96	1.5 E-1
1120 (0.02)	22 m	Rh-107	Pd-108	1.1 E-4
1121 (0.2)	16 h	Te-119	Te-120	1.0 E-5
1121 (100)	84 d	Sc-46	Ti-47, Sc-45	2.1 E-3
1121 (100)	1.7 m	Sc-50	Ti-50	w
1121 (35)	115 d	Ta-182	W-183, Ta-181	8.4 E-4
1121 (32)	13 h	Re-182m	Re-185	?
1121 (21)	64 h	Re-182	Re-185, Os-184	4.2 E-4
1122 (0.6)	8.3 d	Ag-106m	Ag-107	2.5 E-4
1122 (7)	2.13 h	Ba-129m	Ba-130	1.5 E-3
1125 (1)	68 m	Ho-162m	Ho-165	3.6 E-3
1126 (0.03)	2.7 d	Sb-122	Sb-123, Te-123	7.8 E-4
1126 (1)	2.44 d	Sc-44m	Sc-45, Ti-46	1.6 E-3
1127 (0.5)	23.4 h	Nb-96	Mo-97	3.9 E-4
1127 (0.7)	2.5 h	Nd-141	Nd-142	1.1 E-1
1128 (0.1)	24 m	Ag-106	Ag-107, Cd-108	1.1
1128 (12)	8.3 d	Ag-106m	Ag-107	5.1 E-3
1128 (14)	2.2 h	Rh-106m	Pd-108	9.0 E-2

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1128 (0.5)	18.7 m	Eu-159	Gd-160	2.1 E-3
1129 (93)	14.6 h	Nb-90	Mo-92	3.5 E-2
1130 (0.1)	26.4 h	As-76	As-75, Se-77	1.6 E-4
1132 (0.09)	16.98 h	Re-188	Re-187, Os-189	5.3 E-4
1134 (0.4)	12.1 d	Ir-190	Ir-191	2.8 E-3
1136 (0.5)	6.47 d	Cs-132	Cs-133	1.2 E-2
1137 (8)	4.7 d	Te-119m	Te-120	3.1 E-5
1139 (0.09)	17 h	Ce-135	Ce-136	3.3 E-5
1141 (0.8)	2.7 d	Sb-122	Sb-123, Te-123	2.1 E-2
1142 (0.4)	3.85 d	Sb-127	Te-128	6.1 E-5
1145 (?)	7.7 m	K-38	K-39, Ca-40	?
1145 (2)	1.5 h	As-78	Se-80	4.4 E-4
1145 (0.7)	3.1 h	Er-161	Er-162	1.5 E-3
1145 (0.5)	6.7 d	Lu-172	Lu-175	4.8 E-5
1147 (0.3)	2.5 h	Nd-141	Nd-142	4.8 E-2
1148 (1)	33 h	Sr-83	Sr-84	2.8 E-4
1149 (0.05)	74 m	Nb-97	Mo-98	9.5 E-4
1149 (0.04)	22 m	Rh-107	Pd-108	2.2 E-4
1149 (0.2)	17 h	Ce-135	Ce-136	2.6 E-4
1150 (0.04)	39 h	Ge-69	Ge-70, Se-74	4.8 E-4
1151 (0.6)	19.4 h	Ir-194	Ir-193, Pt-195	5.6 E-4
1151 (1)	39.5 h	Au-194	Au-197	7.9 E-4
1152 (1)	35.3 m	Sn-111	Sn-112	1.4 E-2
1153 (0.2)	6.7 d	Lu-172	Lu-175	1.9 E-5
1154 (12)	15.2 d	Eu-156	Eu-157	1.2 E-4
1154 (11)	5.35 d	Tb-156	Tb-159	1.3 E-4
1155 (0.2)	20 h	Rh-100	Pd-102	3.9 E-5
1155 (0.4)	3.85 d	Sb-127	Te-128	6.5 E-5
1155 (2)	9.59 h	Dy-155	Dy-156	2.9 E-4
1157 (58)	22.2 m	K-44	Ca-46	w
1157 (94)	3.92 h	Sc-44	Sc-45, Ti-46	2.4 E+1
1157 (1)	2.44 d	Sc-44m	Sc-45, Ti-46	1.6 E-3
1157 (1)	115 d	Ta-182	W-183, Ta-181	2.4 E-5
1158 (1)	1.65 h	Ru-95	Ru-96	1.7 E-1
1158 (0.6)	206 d	Rh-102	Rh-103, Pd-104	2.8 E-4
1159 (0.5)	3.1 h	Er-161	Er-162	1.1 E-3
1160 (2)	33 h	Sr-83	Sr-84	5.6 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1163 (1)	14 h	Os-183	Os-184	2.7 E-5
1164 (71)	14 m	Co-62	Ni-64	3.2 E-3
1164 (?)	14.6 h	Nb-90	Mo-92	?
1164 (0.01)	8.47 h	Pd-101	Pd-102	8.5 E-3
1165 (9)	2.13 h	Ba-129m	Ba-130	1.8 E-3
1166 (0.2)	12.6 h	Eu-150m	Eu-151	1.2 E-2
1166 (0.1)	6.7 d	Lu-172	Lu-175	9.5 E-6
1167 (2)	9.59 h	Dy-155	Dy-156	3.0 E-4
1169 (18)	51 m	Nb-98	Mo-100	9.7 E-4
1171 (0.4)	17 h	Ce-135	Ce-136	1.5 E-4
1171 (1)	36 a	Eu-150	Eu-151	1.4 E-6
1172 (2)	15.9 m	Sb-120	Sb-121	1.5 E+1
1172 (100)	5.76 d	Sb-120m	Sb-121	7.5 E-2
1172 (0.2)	6.7 d	Lu-172	Lu-175	1.9 E-5
1172 (1)	9.5 h	Hg-195	Hg-196	7.9 E-4
1173 (100)	5.272 a	Co-60	Ni-61, Co-59, Cu-65	1.4 E-4
1173 (100)	14 m	Co-62	Ni-64	4.5 E-3
1173 (0.4)	9.76 m	Cu-62	Cu-63, Zn-64	3.1
1173 (9)	4.4 m	In-118m	Sn-119	4.6 E-5
1173 (0.5)	8.83 m	Sm-143	Sm-144	9.6 E-2
1174 (2)	3.1 h	Er-161	Er-162	4.2 E-3
1175 (2)	39.5 h	Au-194	Au-197	1.5 E-3
1177 (0.7)	16 h	Te-119	Te-120	3.6 E-5
1177 (8)	7.7 h	Tm-166	Tm-169	2.8 E-4
1178 (12)	32 m	Cl-34m	Cl-35, K-39	1.1
1178 (0.3)	8.47 h	Pd-101	Pd-102	2.5 E-1
1178 (15)	72.1 d	Tb-160	Tb-159, Dy-161	6.5 E-4
1179 (5)	1.65 h	Ru-95	Ru-96	8.5 E-1
1180 (?)	14.1 h	Ga-72	Ge-73, Ga-71	?
1182 (0.1)	18.7 m	Eu-159	Gd-160	4.1 E-4
1183 (0.2)	9.25 m	Ta-178	Ta-180	?
1184 (1)	17 h	Ce-135	Ce-136	3.7 E-4
1184 (0.5)	6.7 d	Lu-172	Lu-175	4.8 E-5
1184 (0.3)	19.4 h	Ir-194	Ir-193, Pt-195	2.8 E-4
1184 (0.6)	39.5 h	Au-194	Au-197	4.6 E-4
1185 (4)	3.3 h	Cu-61	Cu-63	4.8 E-2
1186 (0.7)	3.1 h	Er-161	Er-162	1.5 E-3

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1187 (2)	150 a	Tb-158	Tb-159	4.4 E-6
1189 (6)	115 d	Ta-182	W-183, Ta-181	3.8 E-4
1189 (0.02)	9.5 h	Hg-195	Hg-196	1.5 E-5
1193 (0.6)	3.1 h	Er-161	Er-162	1.3 E-3
1194 (0.02)	12.6 h	Eu-150m	Eu-151	1.2 E-3
1195 (0.4)	5.37 h	Ag-113	Cd-114	2.1 E-4
1196 (1)	53 m	Tc-94m	Ru-96	7.6 E-5
1199 (1)	1.5 h	As-78	Se-80	2.2 E-4
1199 (11)	8.3 d	Ag-106m	Ag-107	4.2 E-2
1199 (1)	5 h	Ho-160m	Er-162	?
1200 (2)	72.1 d	Tb-160	Tb-159, Dy-161	8.5 E-5
1200 (0.4)	12.1 d	Ir-190	Ir-191	2.8 E-3
1200 (20)	23.4 h	Nb-96	Mo-97	1.5 E-2
1202 (0.2)	33 h	Sr-83	Sr-84	5.5 E-5
1202 (1)	8.47 h	Pd-101	Pd-102	8.5 E-1
1204 (0.3)	17.77 d	As-74	As-75, Se-76, Br-79	2.0 E-3
1205 (3)	62 d	Nb-91m	Mo-92, Nb-93	6.3 E-3
1206 (0.3)	23.6 h	Hf-173	Hf-174	5.6 E-5
1206 (0.3)	39 h	Ge-69	Ge-70, Se-74	3.6 E-3
1206 (30)	26.1 h	Tl-200	Tl-203	2.6 E-5
1207 (?)	6.24 d	Bi-206	Bi-209	?
1208 (0.3)	58.5 d	Y-91	Zr-92	1.4 E-4
1208 (19)	65 s	Mo-91m	Mo-92	2.7
1209 (9)	2.13 h	Ba-129m	Ba-130	1.9 E-3
1210 (0.4)	3.1 h	Er-161	Er-162	8.4 E-4
1210 (7)	41.5 h	Ir-188	Ir-191, Pt-190	5.4 E-5
1211 (0.2)	55 m	Cd-105	Cd-106	1.1 E-4
1213 (2)	43.64 h	Sc-48	Ti-49	6.2 E-4
1213 (2)	26.4 h	As-76	As-75, Se-77	2.6 E-3
1213 (66)	4.7 d	Te-119m	Te-120	2.6 E-4
1213 (1)	12.4 a	Eu-152	Eu-153	8.2 E-6
1214 (0.1)	17 h	Ce-135	Ce-136	3.7 E-5
1215 (0.3)	33 h	Sr-83	Sr-84	8.3 E-5
1216 (3)	26.4 h	As-76	As-75, Se-77	3.9 E-3
1218 (0.3)	35.3 m	Sn-111	Sn-112	4.2 E-3
1218 (0.5)	8.47 h	Pd-101	Pd-102	4.2 E-1
1219 (1)	39.5 h	Au-194	Au-197	7.6 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1220 (23)	68 m	Ho-162	Ho-165	8.3 E-2
1221 (0.2)	18.7 m	Eu-159	Gd-160	8.2 E-4
1221 (7)	115 d	Ta-182	W-183, Ta-181	6.4 E-4
1222 (9)	2.13 h	Ba-129m	Ba-130	1.9 E-3
1222 (32)	5.35 d	Tb-156	Tb-159	3.8 E-4
1222 (7)	64 h	Re-182	Re-185, Os-184	3.4 E-4
1223 (7)	8.3 d	Ag-106m	Ag-107	3.0 E-3
1223 (4)	(20.9 m)	Pm-141	Sm-144	?
1223 (0.2)	12.6 h	Eu-150m	Eu-151	1.2 E-2
1224 (0.1)	36 h	Ni-57	Ni-58	1.7 E-3
1226 (15)	48.4 m	Au-200	Hg-201	4.8 E-3
1228 (0.1)	3.1 h	Er-161	Er-162	2.1 E-4
1229 (0.2)	55 m	Cd-105	Cd-106	1.1 E-4
1229 (1)	26.4 h	As-76	As-75, Se-77	1.3 E-3
1230 (96)	4.4 m	In-118m	Sn-119	4.4 E-3
1231 (1)	14.1 h	Ga-72	Ge-73, Ga-71	1.5 E-3
1231 (8)	15.2 d	Eu-156	Gd-157	7.6 E-5
1231 (4)	64 h	Re-182	Re-185, Os-184	2.8 E-4
1231 (12)	115 d	Ta-182	W-183, Ta-181	2.9 E-4
1233 (0.009)	69.6 m	Te-129	Te-130	1.7 E-3
1233 (0.1)	17 h	Ce-135	Ce-136	3.8 E-5
1234 (0.7)	36 m	Er-159	Er-162	w
1237 (0.1)	42 s	Rh-104	Rh-103, Pd-105	1.3 E-1
1238 (68)	77.3 d	Co-56	Ni-58	8.9 E-4
1238 (0.3)	33 h	Sr-83	Sr-84	8.5 E-5
1239 (3)	33.5 m	Ag-104m	Cd-106	3.9 E-4
1239 (0.09)	3.1 h	Er-161	Er-162	1.9 E-4
1240 (0.3)	55 m	Cd-105	Cd-106	1.7 E-4
1240 (6)	1.5 h	As-78	Se-80	1.3 E-3
1241 (3)	1.9 h	Yb-177	Yb-176	5.7 E-4
1242 (7)	15.2 d	Eu-156	Gd-157	6.5 E-5
1242 (6)	3.31 a	Lu-174	Lu-175	3.8 E-4
1243 (0.09)	33 h	Sr-83	Sr-84	2.5 E-5
1243 (?)	72.5 m	Sm-142	Sm-144	?
1247 (0.7)	40 h	Hg-195m	Hg-196	1.6 E-5
1247 (5)	5.7 d	Mn-52	Fe-54	8.5 E-6
1247 (0.3)	3.1 h	Er-161	Er-162	6.2 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1247 (2)	36 a	Eu-150	Eu-151	2.8 E-6
1250 (0.4)	3.1 h	Er-161	Er-162	8.4 E-4
1251 (0.09)	72.1 d	Tb-160	Tb-159, Dy-161	3.9 E-6
1251 (0.9)	9.59 h	Dy-155	Dy-156	1.4 E-4
1253 (0.3)	14.4 m	In-112	In-113	1.5 E-2
1257 (0.08)	17.6 m	Br-80	Br-81, Rb-85	5.5 E+1
1257 (0.8)	2.7 d	Sb-122	Sb-123, Te-123	2.1 E-2
1257 (2)	115 d	Ta-182	W-183, Ta-181	4.8 E-5
1259 (4)	4.4 m	In-118m	Sn-119	1.8 E-4
1260 (1)	14.6 h	Ga-72	Ge-73, Ga-71	1.3 E-3
1261 (0.01)	69.6 m	Te-129	Te-130	1.9 E-3
1261 (0.9)	68.3 m	Ga-68	Ga-69, Ge-70	8.1 E-1
1262 (0.3)	1.65 h	Ru-95	Ru-96	5.1 E-2
1263 (4)	48.4 m	Au-200	Hg-201	1.3 E-3
1268 (?)	2.246 m	Al-28	Si-29, P-31, Al-27	?
1268 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
1269 (0.2)	74 m	Nb-97	Mo-98	3.8 E-3
1270 (1)	14.6 h	Nb-90	Mo-92	3.8 E-4
1271 (4)	5.7 h	Mo-90	Mo-92	6.0 E-4
1272 (8)	72.1 d	Tb-160	Tb-159, Dy-161	3.4 E-4
1272 (3)	5 h	Ho-160m	Er-161	?
1273 (0.09)	33 h	Sr-83	Sr-84	2.5 E-5
1273 (14)	7.7 h	Tm-166	Tm-169	4.9 E-4
1274 (91)	6.6 m	Al-29	Si-30	1.4
1274 (0.7)	115 d	Ta-182	W-183, Ta-181	1.7 E-5
1275 (0.8)	55 m	Cd-105	Cd-106	4.4 E-4
1275 (100)	2.62 a	Na-22	Na-23, Mg-24, Al-27	3.0 E-3
1275 (35)	8.5 a	Eu-154	Eu-153, Gd-155	6.7 E-5
1275 (0.1)	38 d	Re-184	Re-185	2.0 E-4
1277 (1)	14.1 h	Ga-72	Ge-73, Ga-71	1.3 E-3
1277 (2)	93.1 d	Tm-168	Tm-169	3.4 E-3
1278 (3)	15.2 d	Eu-156	Gd-157	2.8 E-5
1280 (0.6)	3.1 h	Er-161	Er-162	1.3 E-3
1285 (0.07)	33 h	Sr-83	Sr-84	2.0 E-5
1286 (2)	(5 h)	Ho-160m	Er-160	?
1286 (0.02)	72.1 d	Tb-160	Tb-159, Gd-161	2.2 E-7
1289 (11)	1.6 m	V-53	Cr-54	4.0 E-2

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1289 (2)	8.47 h	Pd-101	Pd-102	1.6
1289 (0.2)	6.7 d	Lu-172	Lu-175	2.0 E-5
1289 (1)	115 d	Ta-182	W-183, Ta-181	2.4 E-5
1290 (0.8)	44.8 d	Cd-115m	Cd-116	2.0 E-6
1290 (0.4)	3.85 d	Sb-127	Te-128	6.0 E-5
1292 (44)	44.6 d	Fe-59	Fe-58, Ni-64	?
1293 (?)	35.3 m	Sn-111	Sn-112	?
1293 (0.4)	2.5 h	Nd-141	Nd-142	6.4 E-2
1294 (85)	54 m	In-116m1	In-115, Sn-117	7.8
1294 (99)	1.83 h	Ar-41	K-41	w
1295 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
1297 (0.2)	33 h	Sr-83	Sr-84	5.5 E-5
1297 (75)	4.54 d	Ca-47	Ca-48	2.8 E-3
1297 (?)	14.6 h	Nb-90	Mo-92	?
1298 (0.06)	6.47 d	Cs-132	Cs-133	1.4 E-3
1299 (0.1)	2.5 h	Nd-141	Nd-142	1.6 E-2
1299 (2)	12.4 a	Eu-152	Eu-153	1.7 E-5
1299 (0.07)	17 h	Ce-135	Ce-136	2.6 E-5
1300 (?)	2.58 h	Mn-56	Mn-55, Fe-57	?
1300 (0.1)	71.9 s	In-114	In-115, Sn-115	7.6
1301 (0.3)	18.7 m	Eu-159	Gd-160	1.2 E-3
1302 (0.2)	39 m	Se-73m	Se-74	6.4 E-3
1302 (4)	55 m	Cd-105	Cd-106	2.2 E-3
1303 (0.4)	3.1 h	Er-161	Er-162	8.3 E-4
1304 (0.2)	9.59 h	Dy-155	Dy-156	3.1 E-5
1308 (0.07)	16.98 h	Re-188	Re-187, Os-189	4.1 E-4
1309 (13)	1.5 h	As-78	Se-80	2.9 E-3
1309 (0.9)	36 a	Eu-150	Eu-151	1.2 E-6
1312 (0.2)	8.47 h	Pd-101	Pd-102	1.7 E-1
1312 (100)	43.67 h	Sc-48	Ti-49	3.1 E-2
1312 (99)	15.97 d	V-48	Cr-50, V-50	3.1 E-4
1312 (1)	3.12 h	Ag-112	Cd-1131.6 E-4	
1312 (3)	72.1 d	Tb-160	Tb-159, Dy-161	1.3 E-4
1315 (0.8)	9.3 h	Eu-152m2	Eu-153	6.0 E-3
1316 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
1317 (29)	35.34 h	Br-82	Br-81, Sr-87	1.4 E-3
1318 (0.6)	6.47 d	Cs-132	Cs-133	1.4 E-2

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1318 (0.1)	3.1 h	Er-161	Er-162	2.1 E-4
1318 (0.08)	3.31 h	Lu-174	Lu-175	5.1 E-6
1320 (2)	68 m	Ho-162m	Ho-165	7.2 E-3
1321 (0.2)	55 m	Cd-105	Cd-106	1.1 E-4
1324 (0.5)	12.1 d	Ir-190	Ir-191	3.6 E-3
1325 (0.3)	33 h	Sr-83	Sr-84	8.4 E-5
1325 (?)	107 d	Y-88	Y-89, Zr-90	?
1326 (0.3)	20 h	Rh-100	Pd-102	7.8 E-5
1328 (87)	2.5 m	Fe-53m	Fe-54, Ni-58	1.4 E-4
1333 (100)	5.272 a	Co-60	Ni-61, Co-59, Cu-65	1.4 E-4
1333 (5)	5.7 d	Mn-52	Fe-54	8.5 E-6
1336 (3)	39 h	Ge-69	Ge-70, Se-74	3.6 E-2
1337 (0.4)	9.59 h	Dy-155	Dy-156	6.0 E-5
1338 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
1339 (0.7)	1.5 h	As-78	Se-80	1.6 E-4
1339 (0.7)	55 m	Cd-105	Cd-106	3.9 E-4
1339 (0.2)	16 h	Te-119	Te-120	1.0 E-5
1340 (0.3)	1.65 h	Ru-95	Ru-96	5.2 E-2
1341 (1)	9.25 m	Ta-178	Ta-180, W-180	4.4 E-2
1341 (5)	28.4 m	Lu-178	Hf-179	w
1342 (7)	69.2 h	Ag-104	Cd-106	3.7 E-5
1342 (57)	21.2 h	Mg-28	Si-30	?
1342 (5)	20 h	Rh-100	Pd-102	1.3 E-3
1342 (1)	39.5 h	Au-194	Au-197	7.6 E-4
1343 (0.02)	8.47 h	Pd-101	Pd-102	1.7 E-2
1343 (0.3)	115 d	Ta-182	W-183, Ta-181	7.2 E-6
1344 (3)	36 a	Eu-150	Eu-151	4.2 E-6
1345 (3)	54 d	Eu-148	Eu-151	1.3 E-5
1346 (0.5)	12.7 h	Cu-64	Cu-65, Zn-66, Ga-69	3.7 E-2
1347 (90)	115 s	K-46	Ca-48	?
1347 (0.4)	4.54 h	Pr-139	Pr-141	4.0 E-1
1349 (0.2)	39 h	Ge-69	Ge-70, Se-74	2.4 E-3
1351 (1)	9.25 m	Ta-178	Ta-180, W-180	4.4 E-2
1351 (0.1)	18.7 m	Eu-159	Gd-160	4.1 E-4
1354 (3)	3.93 h	La-141	Ce-142	1.1 E-5
1354 (0.2)	10 h	Os-183m	Os-184	2.0 E-5
1355 (1.1)	1.65 h	Ru-95	Ru-96	1.9 E-1

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1357 (0.5)	3.12 h	Ag-112	Cd-113	8.0 E-5
1358 (0.6)	3.1 h	Er-161	Er-162	1.3 E-3
1360 (4)	77.3 d	Co-56	Ni-58	5.2 E-5
1361 (0.7)	55 m	Cd-105	Cd-106	3.9 E-4
1362 (16)	20 h	Rh-100	Pd-102	4.2 E-3
1362 (0.4)	206 d	Rh-102	Rh-103, Pd-104	1.9 E-4
1366 (0.9)	4.7 d	Te-119m	Te-120	3.5 E-6
1367 (2)	15.2 d	Eu-156	Gd-157	1.8 E-5
1368 (2)	60.3 d	Sb-124	Te-125, Sb-123	7.2 E-6
1368 (0.7)	9.59 h	Dy-155	Dy-156	1.1 E-4
1369 (100)	15 h	Na-24	Mg-25, Na-23, Al-27	2.5 E-1
1373 (0.5)	68 m	Ho-162m	Ho-165	1.8 E-3
1373 (4)	1.5 h	As-78	Se-80	8.6 E-4
1374 (0.2)	115 d	Ta-182	W-183, Ta-181	4.8 E-6
1375 (0.07)	33 h	Sr-83	Sr-84	2.0 E-5
1376 (0.1)	4.5 h	Pr-139	Pr-141	1.0 E-1
1378 (79)	36 h	Ni-57	Ni-58	7.9 E-1
1378 (0.07)	3.85 d	Sb-127	Te-128	1.0 E-5
1379 (0.9)	26.7 h	Ho-166	Ho-165, Er-167	4.0 E-3
1382 (1)	1.5 h	As-78	Se-80	2.2 E-4
1383 (0.1)	3.1 h	Er-161	Er-162	2.1 E-4
1384 (90)	2.71 h	Sr-92	Zr-96	6.3 E-3
1384 (25)	250 d	Ag-110m	Ag-109, Cd-111	1.1 E-5
1385 (0.1)	33 h	Sr-83	Sr-84	2.8 E-5
1387 (0.1)	38 d	Re-184	Re-185	2.0 E-4
1387 (2)	5.7 h	Mo-90	Mo-92	3.0 E-4
1387 (0.4)	20 h	Rh-100	Pd-102	1.0 E-4
1387 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
1387 (5)	63.6 h	Tm-172	Yb-173	2.8 E-4
1387 (0.8)	6.7 d	Lu-172	Lu-175	7.7 E-5
1387 (0.08)	115 d	Ta-182	W-183, Ta-181	2.1 E-6
1387 (0.2)	12.1 d	Ir-190	Ir-191	1.4 E-3
1388 (5)	3.12 h	Ag-112	Cd-113	8.0 E-4
1388 (3)	55 m	Cd-105	Cd-106	1.6 E-3
1389 (0.7)	9.3 h	Eu-152m2	Eu-153	5.3 E-3
1394 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
1394 (1)	8.3 d	Ag-106m	Ag-107	4.2 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1403 (0.5)	9.25 m	Ta-178	Ta-180, W-180	2.2 E-2
1403 (0.4)	55 m	Cd-105	Cd-106	2.2 E-4
1403 (0.6)	6.7 d	Lu-172	Lu-175	5.9 E-5
1403 (0.3)	8.83 m	Sm-143	Sm-144	5.7 E-2
1404 (?)	6.6 m	Al-29	Si-30	?
1405 (0.01)	39 h	Ge-69	Ge-70, Se-74	1.2 E-4
1405 (5)	3.51 h	Y-92	Zr-94	5.0 E-4
1405 (1)	6.24 d	Bi-206	Bi-209	2.9 E-5
1408 (0.1)	3.08 h	Ti-45	Ti-46	2.9 E-3
1408 (21)	12.4 a	Eu-152	Eu-153	1.7 E-4
1409 (?)	36 h	Ni-57	Ni-58	?
1410 (0.04)	115 d	Ta-182	W-183, Ta-181	9.6 E-7
1411 (2)	1.65 h	Ru-95	Ru-96	3.4 E-1
1412 (1)	38.4 m	Zn-63	Zn-64	1.0
1413 (1)	16 h	Te-119	Te-120	5.1 E-5
1415 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
1416 (2)	55 m	Cd-105	Cd-106	1.1 E-3
1418 (0.6)	3.1 h	Er-161	Er-162	1.2 E-3
1419 (?)	20 h	Rh-100	Pd-102	?
1420 (0.3)	13 d	I-126	I-127	3.3 E-3
1422 (12)	5.35 d	Tb-156	Tb-159	1.4 E-4
1427 (0.4)	9.59 h	Dy-155	Dy-156	6.0 E-5
1427 (9)	64 h	Re-182	Re-185, Os-184	1.8 E-4
1429 (0.4)	3.1 h	Er-161	Er-162	8.5 E-4
1433 (0.6)	1.65 h	Ru-95	Ru-96	1.0 E-1
1433 (0.03)	8.47 h	Pd-101	Pd-102	2.5 E-2
1434 (100)	3.75 m	V-52	Cr-53, V-51	2.3
1434 (100)	5.7 d	Mn-52	Fe-54	1.7 E-4
1434 (98)	21 m	Mn-52m	Fe-54	?
1434 (0.2)	18.7 m	Eu-159	Gd-160	8.0 E-4
1435 (0.02)	2.5 h	Nd-141	Nd-142	3.2 E-3
1435 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
1438 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
1439 (0.3)	26.4 h	As-76	As-75, Se-77	3.9 E-4
1440 (0.05)	17 h	Ce-135	Ce-136	1.8 E-5
1440 (0.7)	6.7 d	Lu-172	Lu-175	6.8 E-5
1440 (0.6)	14 h	Os-183	Os-184	1.6 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1441 (0.4)	23.4 h	Nb-96	Mo-97	3.1 E-4
1442 (0.1)	38 a	Bi-207	Bi-209	2.7 E-7
1443 (0.2)	77.3 d	Co-56	Ni-58	2.6 E-6
1450 (0.03)	39 h	Ge-69	Ge-70, Se-74	3.6 E-4
1452 (0.01)	12.6 h	Eu-150m	Eu-151	5.9 E-4
1453 (0.04)	115 d	Ta-182	W-183, Ta-181	9.6 E-7
1454 (0.1)	26.4 h	As-76	As-75, Se-77	1.3 E-4
1455 (2)	5.7 h	Mo-90	Mo-92	3.0 E-4
1459 (2)	1.65 h	Ru-95	Ru-96	3.4 E-1
1459 (56)	2.13 h	Ba-129m	Ba-130	1.2 E-2
1462 (0.08)	77.3 d	Co-56	Ni-58	1.0 E-6
1462 (0.3)	93.1 d	Tm-168	Tm-169	5.1 E-4
1464 (4)	14.1 h	Ga-72	Ge-73, Ga-71	5.2 E-3
1464 (1)	26 h	As-72	Se-74	1.0 E-5
1464 (0.2)	3.1 h	Er-161	Er-162	4.2 E-4
1465 (22)	5.37 d	Pm-148	Sm-149	4.8 E-4
1466 (4)	63.6 h	Tm-172	Yb-173	2.2 E-4
1466 (0.7)	6.7 d	Lu-172	Lu-175	6.8 E-5
1467 (0.2)	17 h	Ce-135	Ce-136	7.4 E-5
1469 (0.6)	3.12 h	Ag-112	Cd-113	9.6 E-5
1469 (6)	39.5 h	Au-194	Au-197	4.6 E-3
1469 (0.2)	19.4 h	Ir-194	Ir-193, Pt-195	1.9 E-4
1470 (0.01)	39 h	Ge-69	Ge-70, Se-74	1.2 E-4
1470 (0.6)	6.7 d	Lu-172	Lu-175	5.8 E-5
1475 (17)	35.34 h	Br-82	Br-81, Sr-87	8.3 E-4
1476 (0.5)	26 h	As-72	Se-74	5.0 E-6
1477 (99)	6.9 h	Mo-93m	Mo-94	3.2 E-1
1477 (0.2)	11 h	Pt-189	Pt-190	2.0 E-4
1479 (0.5)	9.59 h	Dy-155	Dy-156	7.2 E-5
1481 (27)	2.52 h	Ni-65	Ni-64, Zn-70	1.6 E-2
1485 (2)	37 a	Eu-150	Eu-151	2.8 E-6
1486 (?)	14.1 h	Ga-72	Ge-73, Ga-71	?
1487 (0.06)	39 h	Ge-69	Ge-70, Se-74	7.2 E-4
1488 (0.6)	55 m	Cd-105	Cd-106	3.3 E-4
1489 (0.3)	17.3 m	Pr-144	Nd-145	3.9 E-4
1489 (1)	6.7 d	Lu-172	Lu-175	1.0 E-4
1492 (0.3)	3.1 h	Er-161	Er-162	6.3 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1493 (0.5)	9.59 h	Dy-155	Dy-156	7.5 E-5
1496 (0.3)	9.25 m	Ta-178	Ta-180, W-180	1.3 E-2
1498 (3)	23.4 h	Nb-96	Mo-97	2.3 E-3
1500 (1)	3.92 h	Sc-44	Cs-45, Ti-46	2.5 E-1
1501 (0.06)	17 h	Ce-135	Ce-136	2.3 E-5
1504 (0.9)	4.4 m	In-118m	Sn-119	4.1 E-5
1505 (13)	250 d	Ag-110m	Ag-109, Cd-111	5.3 E-6
1507 (10)	54 m	In-116m1	In-115, Sn-117	9.1 E-1
1508 (6)	4.16 m	Zr-89m	Zr-90	1.2 E+1
1508 (25)	65 s	Mo-91m	Mo-92	3.5
1509 (0.3)	9.59 h	Dy-155	Dy-156	4.5 E-5
1515 (0.02)	8.47 h	Pd-101	Pd-102	1.7 E-2
1515 (0.7)	8.83 m	Sm-143	Sm-144	1.3 E-1
1516 (0.1)	74 m	Nb-97	Mo-98	1.9 E-3
1520 (0.7)	18.7 m	Eu-159	Gd-160	2.9 E-3
1522 (5)	53 m	Tc-94m	Ru-96	3.7 E-4
1525 (18)	12.36 h	K-42	Ca-43, K-41	1.0 E-3
1526 (0.1)	39 h	Ge-69	Ge-70, Se-74	1.2 E-3
1527 (18)	2.2 h	Rh-106m	Pd-108	1.2 E-1
1528 (0.1)	33 h	Sr-83	Sr-84	2.8 E-5
1528 (16)	8.3 d	Ag-106m	Ag-107	6.7 E-3
1530 (3)	1.5 h	As-78	Se-80	6.6 E-4
1530 (5)	63.6 m	Tm-172	Yb-173	2.8 E-4
1531 (0.02)	17 h	Ce-135	Ce-136	7.5 E-6
1539 (0.5)	3.12 h	Ag-112	Cd-113	8.0 E-5
1542 (0.2)	1.65 h	Ru-95	Ru-96	3.4 E-2
1543 (0.4)	35.3 m	Sn-111	Sn-112	5.6 E-3
1543 (1)	6.7 d	Lu-172	Lu-175	1.0 E-4
1544 (0.05)	8.83 m	Sm-143	Sm-144	9.3 E-3
1547 (0.1)	38.4 m	Zn-63	Zn-64	1.0 E-1
1553 (22)	20 h	Rh-100	Pd-102	5.8 E-3
1554 (100)	1.7 m	Sc-50	Ti-50	w
1554 (0.1)	3.1 h	Er-161	Er-162	2.1 E-4
1558 (2)	55 m	Cd-105	Cd-106	1.1 E-3
1560 (1)	20 h	Rh-100	Pd-102	2.5 E-4
1560 (0.07)	17 h	Ce-135	Ce-136	2.6 E-5
1562 (0.2)	1.65 h	Ru-95	Ru-96	3.5 E-2

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1562 (0.1)	206 d	Rh-102	Rh-103, Pd-104	4.7 E-5
1562 (0.02)	24 m	Ag-106	Ag-107, Cd-108	2.2 E-1
1562 (13)	6.1 d	Ni-56	Ni-58	2.7 E-4
1562 (2)	33 h	Sr-83	Sr-84	5.6 E-4
1563 (0.3)	39.5 h	Au-194	Au-197	2.3 E-4
1565 (6)	8.3 d	Ag-106m	Ag-107	2.3 E-3
1572 (0.8)	14.1 h	Ga-72	Ge-73, Ga-71	1.0 E-3
1572 (7)	8.3 d	Ag-106m	Ag-107	3.0 E-3
1573 (0.2)	39 h	Ge-69	Ge-70, Se-74	2.5 E-3
1574 (0.09)	9.59 h	Dy-155	Dy-156	1.4 E-5
1576 (4)	19.2 h	Pr-142	Pr-141, Nd-143	1.9 E-3
1576 (3)	40.5 s	Pm-142	Sm-144	?
1577 (?)	77.3 d	Co-56	Ni-58	?
1581 (0.05)	206 d	Rh-102	Rh-103, Pd-104	2.4 E-5
1582 (0.2)	15.5 m	Mo-91	Mo-92	5.4 E-4
1582 (0.2)	26.7 h	Ho-166	Ho-165, Er-167	8.8 E-4
1583 (1)	55 m	Cd-105	Cd-106	5.5 E-4
1584 (3)	6.7 d	Lu-172	Lu-175	2.9 E-4
1592 (2)	4.9 h	Tc-94	Ru-96	1.0 E-3
1594 (3)	39.5 h	Au-194	Au-197	2.3 E-3
1595 (5)	6.24 d	Bi-206	Bi-209	1.4 E-4
1596 (96)	40.2 h	La-140	La-139	1.2 E-2
1596 (0.5)	3.4 m	Pr-140	Pr-141	9.5 E-1
1597 (4)	14.1 h	Ga-72	Ge-73, Ga-71	5.2 E-3
1598 (0.03)	33 h	Sr-83	Sr-84	8.4 E-6
1599 (0.2)	9.59 h	Dy-155	Dy-156	3.0 E-5
1601 (?)	54 m	In-116m1	In-115, Sn-117	?
1603 (0.3)	6.7 d	Lu-172	Lu-175	2.9 E-5
1608 (0.03)	8.47 h	Pd-101	Pd-102	2.6 E-2
1608 (0.02)	2.5 h	Nd-141	Nd-142	3.2 E-3
1608 (4)	63.6 h	Tm-172	Yb-173	2.3 E-4
1610 (0.7)	35.3 m	Sn-111	Sn-112	9.5 E-3
1610 (0.1)	16.98 h	Re-188	Re-187, Os-189	5.9 E-4
1612 (10)	59.6 s	Na-25	Mg-26	3.6 E-1
1612 (2)	14.6 h	Nb-90	Mo-92	7.6 E-4
1614 (3)	3.12 h	Ag-112	Cd-113	4.8 E-4
1615 (0.01)	39 h	Ge-69	Ge-70, Se-74	?

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N * I
1618 (?)	32 m	Cl-34m	Cl-35	?
1621 (0.07)	78.4 h	Zr-89	Zr-90	1.1 E-3
1622 (5)	54 d	Eu-148	Eu-151	2.2 E-5
1622 (2)	6.7 d	Lu-172	Lu-175	2.0 E-4
1624 (11)	2.13 h	Ba-129m	Ba-130	2.3 E-3
1626 (0.1)	23.4 h	Nb-96	Mo-97	7.7 E-5
1628 (2)	20 h	Rh-100	Pd-102	5.2 E-4
1629 (0.06)	12.6 h	Eu-150m	Eu-151	3.6 E-3
1631 (0.3)	4.5 h	Pr-139	Pr-141	3.0 E-1
1633 (0.02)	8.47 h	Pd-101	Pd-102	1.7 E-2
1636 (1)	55 m	Cd-105	Cd-106	5.4 E-4
1636 (0.7)	35 a	Eu-150	Eu-151	9.8 E-7
1637 (0.3)	15.5 m	Mo-91	Mo-92	8.3 E-4
1642 (33)	37.18 m	Cl-38	Cl-37	3.1 E-2
1644 (0.9)	55 m	Cd-105	Cd-106	5.0 E-4
1650 (4)	54 d	Eu-148	Eu-151	1.6 E-5
1653 (0.1)	33 h	Sr-83	Sr-84	2.8 E-5
1656 (?)	7.7 m	K-38	K-39, Ca-40	?
1657 (0.1)	78.4 h	Zr-89	Zr-90	1.6 E-3
1657 (0.6)	3.1 h	Er-161	Er-162	1.2 E-3
1665 (3)	55 m	Cd-105	Cd-106	1.7 E-3
1665 (0.9)	9.59 h	Dy-155	Dy-156	1.3 E-4
1666 (0.09)	33 h	Sr-83	Sr-84	2.5 E-5
1670 (0.6)	6.7 d	Lu-172	Lu-175	5.9 E-5
1675 (0.5)	70.78 d	Co-58	Co-59, Ni-60, Cu-63	7.0 E-4
1675 (?)	14.6 h	Nb-90	Mo-92	?
1681 (1)	14.1 h	Ga-72	Ge-73, Ga-71	1.3 E-3
1685 (0.1)	9.59 h	Dy-155	Dy-156	1.5 E-5
1691 (?)	14.1 h	Ga-72	Ge-73, Ga-71	?
1691 (49)	60.3 d	Sb-124	Te-125, Sb-123	1.8 E-4
1693 (4)	55 m	Cd-105	Cd-106	2.2 E-3
1701 (0.2)	20 h	Rh-100	Pd-102	5.2 E-5
1709 (0.2)	20 h	Rh-100	Pd-102	5.2 E-5
1711 (0.04)	33 h	Sr-83	Sr-84	1.1 E-5
1711 (0.4)	14.1 h	Ga-72	Ge-73, Ga-71	5.2 E-4
1713 (0.8)	78.4 h	Zr-89	Zr-90	1.3 E-2
1715 (0.7)	39.5 h	Au-194	Au-197	5.3 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1716 (0.5)	14.6 h	Nb-90	Mo-92	2.0 E-4
1716 (6)	41.5 h	Ir-188	Ir-191, Pt-190	4.6 E-5
1719 (32)	6.24 d	Bi-206	Bi-209	9.3 E-4
1722 (0.6)	1.5 h	As-78	Se-80	1.3 E-4
1723 (1)	8.3 d	Ag-106m	Ag-107	4.2 E-4
1724 (0.04)	39 h	Ge-69	Ge-70, Se-74	4.8 E-4
1724 (0.4)	6.7 d	Lu-172	Lu-175	3.9 E-5
1725 (0.7)	55 m	Cd-105	Cd-106	3.9 E-4
1732 (?)	15 h	Na-24	Mg-25, Na-23, Al-27	?
1740 (0.4)	3.1 h	Er-161	Er-162	8.4 E-4
1745 (0.1)	78.4 h	Zr-89	Zr-90	1.6 E-3
1750 (4)	16 h	Te-119	Te-120	2.0 E-4
1752 (2)	54 m	In-116m1	In-115, Sn-117	1.8 E-1
1753 (0.009)	2.7 d	Sb-122	Sb-123, Te-123	2.3 E-4
1757 (0.03)	33 h	Sr-83	Sr-84	8.4 E-6
1758 (7)	36 h	Ni-57	Ni-58	7.0 E-2
1761 (0.003)	64.1 h	Y-90	Zr-91, Y-89	1.0 E-4
1762 (0.1)	57.2 m	Sc-49	Ti-50	9.3 E-5
1770 (7)	38 a	Bi-207	Bi-209	?
1771 (16)	77.3 d	Co-56	Ni-58	2.0 E-4
1778 (0.03)	33 h	Sr-83	Sr-84	8.4 E-6
1779 (100)	2.246 m	Al-28	Si-29, P-31, Al-27	3.6
1785 (0.6)	1.65 h	Ru-95	Ru-96	1.0 E-1
1786 (0.01)	206 d	Rh-102	Rh-103, Pd-104	4.7 E-6
1788 (0.3)	26.4 h	As-76	As-75, Se-77	3.9 E-4
1792 (1)	1.5 h	As-78	Se-80	2.2 E-4
1794 (0.04)	8.3 d	Ag-106m	Ag-107	1.7 E-5
1796 (0.01)	24 m	Ag-106	Ag-107, Cd-108	1.1 E-1
1798 (1)	3.12 h	Ag-112	Cd-113	1.6 E-4
1798 (0.6)	39.5 h	Au-194	Au-197	4.6 E-4
1799 (0.05)	33 h	Sr-83	Sr-84	1.4 E-5
1808 (?)	14.6 h	Nb-90	Mo-92	?
1810 (0.6)	77.3 d	Co-56	Ni-58	7.8 E-6
1811 (29)	2.58 h	Mn-56	Mn-55, Fe-57	1.1 E-1
1813 (0.2)	6.7 d	Lu-172	Lu-175	1.9 E-5
1817 (0.03)	8.83 m	Sm-143	Sm-144	5.7 E-3
1823 (0.2)	55 m	Cd-105	Cd-106	1.1 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1830 (4)	2.13 h	Ba-129m	Ba-130	8.4 E-4
1832 (0.2)	55 m	Cd-105	Cd-106	1.1 E-4
1836 (21)	17.8 m	Rb-88	Rb-87	2.1 E-2
1836 (99)	108 d	Y-88	Y-89, Zr-90	1.1 E-1
1836 (2)	1.5 h	As-78	Se-80	4.4 E-4
1839 (2)	8.3 d	Ag-106m	Ag-107	8.4 E-4
1842 (3)	20 m	Ag-115	Cd-116	5.0 E-3
1843 (0.7)	14.6 h	Nb-90	Mo-92	2.7 E-4
1844 (0.6)	6.24 d	Bi-206	Bi-209	1.8 E-5
1847 (0.8)	10.15 d	Nb-92m	Nb-93, Mo-94	4.3 E-3
1861 (5)	14.1 h	Ga-72	Ge-73, Ga-71	6.5 E-3
1865 (?)	20 h	Rh-100	Pd-102	?
1869 (6)	53 m	Tc-94m	Ru-96	4.5 E-4
1870 (0.6)	55 m	Cd-105	Cd-106	3.3 E-4
1874 (0.04)	33 h	Sr-83	Sr-84	1.1 E-5
1879 (2)	6.24 d	Bi-206	Bi-209	5.8 E-5
1884 (0.2)	68.3 m	Ga-68	Ga-69, Ge-70	1.7 E-1
1886 (3)	39.5 h	Au-194	Au-197	2.2 E-3
1891 (0.2)	39 h	Ge-69	Ge-70, Se-74	2.4 E-3
1895 (0.4)	1.5 h	As-78	Se-80	8.9 E-5
1897 (0.8)	34.5 d	Rb-84	Rb-85, Sr-86	2.1 E-3
1898 (2)	55 m	Cd-105	Cd-106	1.1 E-3
1903 (0.3)	6.24 d	Bi-206	Bi-209	8.7 E-6
1910 (0.6)	55 m	Cd-105	Cd-106	3.3 E-4
1912 (0.05)	33 h	Sr-83	Sr-84	1.4 E-5
1913 (1)	14.6 h	Nb-90	Mo-92	3.8 E-4
1914 (2)	10.1 h	Y-93	Zr-94	2.2 E-3
1915 (1)	35.3 m	Sn-111	Sn-112	1.4 E-2
1915 (?)	6.6 m	Al-29	Si-30	?
1915 (0.6)	6.7 d	Lu-172	Lu-175	5.8 E-5
1920 (15)	36 h	Ni-57	Ni-58	1.5 E-1
1922 (2)	1.5 h	As-78	Se-80	4.5 E-4
1923 (0.08)	39 h	Ge-69	Ge-70, Se-74	9.6 E-4
1924 (2)	39.5 h	Au-194	Au-197	1.5 E-3
1930 (10)	20 h	Rh-100	Pd-102	2.6 E-3
1931 (0.3)	1.65 h	Ru-95	Ru-96	5.1 E-2
1931 (0.4)	6.7 d	Lu-172	Lu-175	3.9 E-5

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
1933 (2)	55 m	Cd-105	Cd-106	1.1 E-3
1944 (4)	41.5 h	Ir-188	Ir-191, Pt-190	3.1 E-5
1952 (1)	33 h	Sr-83	Sr-84	2.8 E-4
1961 (0.9)	55 m	Cd-105	Cd-106	5.0 E-4
1963 (0.1)	12.6 h	Eu-150m	Eu-151	5.9 E-3
1964 (0.7)	77.3 d	Co-56	Ni-58	9.1 E-6
1966 (4)	15.2 d	Eu-156	Gd-157	3.8 E-5
1976 (0.3)	55 m	Cd-105	Cd-106	1.7 E-4
1977 (0.4)	20 h	Rh-100	Pd-102	1.0 E-4
1984 (0.6)	14.6 h	Nb-90	Mo-92	2.4 E-4
1985 (0.07)	6.47 d	Cs-132	Cs-133	1.7 E-3
1987 (0.8)	55 m	Cd-105	Cd-106	4.4 E-4
1988 (0.7)	1.65 h	Ru-95	Ru-96	1.2 E-1
1994 (0.2)	6.7 d	Lu-172	Lu-175	1.9 E-5
1997 (?)	14.1 h	Ga-72	Ge-73, Ga-71	?
1997 (1)	1.5 h	As-78	Se-80	2.2 E-4
2013 (100)	17.5 s	K-47	Ca-48	4.2 E-2
2015 (3)	77.3 d	Co-56	Ni-58	3.9 E-5
2015 (0.05)	33 h	Sr-83	Sr-84	1.4 E-5
2022 (0.3)	39 h	Ge-69	Ge-70, Se-74	3.6 E-3
2024 (0.5)	6.7 d	Lu-172	Lu-175	4.8 E-5
2028 (3)	6.6 m	Al-29	Si-30	4.5 E-2
2028 (0.6)	55 m	Cd-105	Cd-106	3.3 E-4
2035 (8)	77.3 d	Co-56	Ni-58	1.0 E-4
2037 (0.03)	206 d	Rh-102	Rh-103, Pd-104	1.4 E-5
2043 (0.01)	39 h	Ge-69	Ge-70, Se-74	1.2 E-4
2044 (4)	39.5 h	Au-194	Au-197	3.1 E-3
2047 (0.3)	1.65 h	Ru-95	Ru-96	5.1 E-2
2048 (0.1)	33 h	Sr-83	Sr-84	2.0 E-5
2053 (20)	7.7 h	Tm-166	Tm-169	7.1 E-4
2054 (0.6)	55 m	Cd-105	Cd-106	3.3 E-4
2057 (0.6)	3.12 h	Ag-112	Cd-113	9.6 E-5
2060 (7)	41.5 h	Ir-188	Ir-191, Pt-190	5.3 E-5
2069 (0.8)	1.5 h	As-78	Se-80	1.7 E-4
2083 (0.3)	6.7 d	Lu-172	Lu-175	2.9 E-5
2084 (0.02)	8.3 d	Ag-106m	Ag-107	8.7 E-6
2088 (?)	77.3 d	Co-56	Ni-58	?

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
2090 (5)	4.7 d	Te-119m	Te-120	2.0 E-5
2090 (0.2)	33 h	Sr-83	Sr-84	5.6 E-5
2091 (6)	60.3 d	Sb-124	Te-125, Sb-123	2.2 E-5
2095 (0.3)	1.5 h	As-78	Se-80	6.6 E-5
2096 (0.1)	6.7 d	Lu-172	Lu-175	1.0 E-5
2096 (0.05)	26.4 h	As-76	As-75, Se-77	6.5 E-5
2098 (11)	41.5 h	Ir-188	Ir-191, Pt-190	8.5 E-5
2106 (0.7)	26 h	As-72	Se-74	7.0 E-6
2106 (2)	3.12 h	Ag-112	Cd-113	3.2 E-4
2110 (1)	14.1 h	Ga-72	Ge-73, Ga-71	1.2 E-2
2111 (0.3)	26.4 h	As-76	As-75, Se-77	3.9 E-4
2112 (15)	54 m	In-116m1	In-115, Sn-117	1.5
2113 (16)	2.58 h	Mn-56	Mn-55, Fe-57	5.9 E-2
2114 (0.4)	77.3 d	Co-56	Ni-58	5.2 E-6
2117 (0.09)	55 m	Cd-105	Cd-106	5.0 E-5
2129 (38)	32 m	Cl-34m	Cl-35, K-39	3.5
2133 (0.04)	36 h	Ni-57	Ni-58	4.0 E-4
2135 (0.03)	33 h	Sr-83	Sr-84	8.4 E-6
2148 (0.2)	33 h	Sr-83	Sr-84	5.6 E-5
2156 (0.4)	55 m	Cd-105	Cd-106	2.2 E-4
2168 (100)	7.7 m	K-38	K-39, Ca-40	1.6 E+1
2168 (44)	37.18 m	Cl-38	Cl-37	4.1 E-2
2175 (8)	10.3 m	Y-95	Zr-96	3.4 E-1
2179 (0.1)	35.3 m	Sn-111	Sn-112	1.4 E-3
2186 (18)	14.6 h	Nb-90	Mo-92	6.8 E-3
2186 (0.7)	17.3 m	Pr-144	Nd-145	9.1 E-4
2188 (0.5)	1.5 h	As-78	Se-80	1.1 E-4
2202 (26)	14.1 h	Ga-72	Ge-73, Ga-71	3.1 E-1
2205 (0.03)	6.7 d	Lu-172	Lu-175	2.9 E-6
2212 (0.1)	35.3 m	Sn-111	Sn-112	1.4 E-3
2212 (0.4)	3.12 h	Ag-112	Cd-113	6.4 E-5
2213 (0.4)	77.3 d	Co-56	Ni-58	5.3 E-6
2215 (19)	41.5 h	Ir-188	Ir-191, Pt-190	1.5 E-4
2222 (0.6)	14.6 h	Nb-90	Mo-92	2.4 E-4
2226 (0.9)	1.5 h	As-78	Se-80	2.0 E-4
2231 (?)	77.3 d	Co-56	Ni-58	?
2231 (0.2)	55 m	Cd-105	Cd-106	1.1 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
2240 (2)	15.97 d	V-48	Cr-50, V-50	6.4 E-6
2243 (?)	15 h	Na-24	Mg-25, Na-23, Al-27	?
2250 (0.5)	55 m	Cd-105	Cd-106	2.7 E-4
2252 (0.4)	1.65 h	Ru-95	Ru-96	6.9 E-2
2261 (0.02)	206 d	Rh-102	Rh-103, Pd-104	9.4 E-6
2274 (2)	55 m	Cd-105	Cd-106	1.1 E-3
2276 (0.1)	77.3 d	Co-56	Ni-58	1.3 E-6
2283 (?)	32 m	Cl-34m	Cl-35, K-39	?
2301 (0.5)	55 m	Cd-105	Cd-106	2.8 E-4
2319 (82)	14.6 h	Nb-90	Mo-92	3.1 E-2
2325 (0.2)	35.3 m	Sn-111	Sn-112	2.8 E-3
2325 (1)	1.65 h	Ru-95	Ru-96	1.7 E-1
2333 (2)	55 m	Cd-105	Cd-106	1.1 E-3
2348 (0.9)	40.2 h	La-140	La-139	1.1 E-4
2354 (49)	8.3 m	Ga-74	Ge-76	2.3 E-3
2376 (32)	20 h	Rh-100	Pd-102	8.3 E-3
2394 (0.2)	55 m	Cd-105	Cd-106	2.2 E-4
2426 (6)	6.6 m	Al-29	Si-30	9.1 E-2
2491 (8)	14.1 h	Ga-72	Ge-73, Ga-71	1.0 E-2
2507 (1)	3.12 h	Ag-112	Cd-113	1.6 E-4
2508 (13)	14.1 h	Ga-72	Ge-73, Ga-71	1.6 E-2
2522 (3)	40.2 h	La-140	La-139	3.6 E-4
2523 (1)	2.58 h	Mn-56	Mn-55, Fe-57	3.7 E-3
2526 (0.08)	55 m	Cd-105	Cd-106	4.5 E-5
2530 (3)	20 h	Rh-100	Pd-102	7.9 E-4
2547 (0.1)	40.2 h	La-140	La-139	1.2 E-5
2599 (17)	77.3 d	Co-56	Ni-58	2.2 E-4
2600 (0.1)	6.24 d	Bi-206	Bi-209	2.9 E-6
2616 (0.1)	20 h	Rh-100	Pd-102	2.6 E-5
2617 (0.6)	1.5 h	As-78	Se-80	1.3 E-4
2632 (0.1)	15.5 m	Mo-91	Mo-92	2.7 E-4
2637 (?)	15.5 m	Mo-91	Mo-92	?
2642 (15)	2.6 m	Nb-99	Mo-100	2.9 E-2
2657 (0.2)	3.92 h	Sc-44	Sc-45, Ti-46	5.0 E-2
2658 (1)	2.58 h	Mn-56	Mn-55, Fe-57	3.7 E-3
2675 (1)	5 h	Ho-160m	Er-162	?
2681 (2)	1.5 h	As-78	Se-80	4.4 E-4

Tab. 5-5, continued

E, keV (I%)	T	Nuclide	Target Nuclide	N · I
2686 (0.2)	3.2 h	Ag-112	Cd-113	3.2 E-5
2730 (0.8)	33.5 m	Ag-104m	Cd-106	1.0 E-4
2731 (0.02)	36 h	Ni-57	Ni-58	2.0 E-4
2734 (0.6)	108 d	Y-88	Y-89, Zr-90	6.6 E-4
2740 (4)	53 m	Tc-94m	Ru-96	3.0 E-4
2742 (?)	77.3 d	Co-56	Ni-58	?
2754 (100)	15 h	Na-24	Mg-25, Na-23, Al-27	2.5 E-1
2785 (0.3)	20 h	Rh-100	Pd-102	7.8 E-5
2794 (?)	32 m	Cl-34m	Cl-35, K-39	?
2804 (0.1)	36 h	Ni-57	Ni-58	1.0 E-3
2829 (0.4)	3.12 h	Ag-112	Cd-113	6.4 E-5
2916 (?)	20 h	Rh-100	Pd-102	?
2939 (0.3)	26 h	As-72	Se-74	3.0 E-6
2960 (0.3)	2.56 h	Mn-56	Mn-55, Fe-57	1.1 E-3

5.3.5 Competing reactions in photon activation analysis

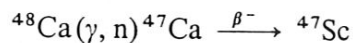
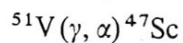
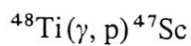
In table 5-6, all analytically relevant competing reactions, i.e. reactions of different target elements leading to a common product nuclide, are presented.

In the first column the reaction pairs or triplets are listed in the order of the atomic number of the common product nuclide.

The quantitative contribution values in the second column are calculated assuming equal target element masses. These values are normalised to add up to unity in each possible interference case (Segebade et al.⁶⁹³; similar investigations were made by Berthelot et al.¹¹⁹⁶ using 44 MeV-bremsstrahlung).

In the case of participating neutron reactions the contribution values have to be taken as estimates, same as the corresponding N-values in table 5-2.

In addition to either competing reactions or overlapping gamma-rays there is yet a third type of interference, namely the secondary decay into a common product nuclide, e.g.:



These interferences are not included in this table; the given data are valid for zero decay period. The different types of interference including the one due to secondary decay are discussed in detail in chapter 6.2.

Reactions	Distribution of activity	Reactions	Distribution of activity	Reactions	Distribution of activity
$^9\text{Be}(\gamma, 2n)^7\text{Be}$	0.991	$^{45}\text{Sc}(\gamma, n)^{44m}\text{Sc}$	0.999	$^{57}\text{Fe}(\gamma, n)^{56}\text{Mn}$	0.343
$^{12}\text{C}(\gamma, \alpha n)^7\text{Be}$	0.009	$^{46}\text{Ti}(\gamma, np)^{44m}\text{Sc}$	1 E-4	$^{55}\text{Mn}(n, \gamma)^{56}\text{Mn}$	0.657
$^{23}\text{Na}(\gamma, n)^{22}\text{Na}$	0.995	$^{45}\text{Sc}(n, \gamma)^{46}\text{Sc}$	0.273	$^{54}\text{Fe}(\gamma, n)^{53}\text{Fe}$	0.996
$^{24}\text{Mg}(\gamma, np)^{22}\text{Na}$	0.004	$^{47}\text{Ti}(\gamma, p)^{46}\text{Sc}$	0.724	$^{58}\text{Ni}(\gamma, \alpha n)^{53}\text{Fe}$	0.004
$^{27}\text{Al}(\gamma, \alpha n)^{22}\text{Na}$	0.001	$^{51}\text{V}(\gamma, \alpha n)^{46}\text{Sc} +$		$^{59}\text{Co}(\gamma, 2n)^{57}\text{Co}$	0.056
$^{23}\text{Na}(n, \gamma)^{24}\text{Na}$	0.040	$^{50}\text{V}(\gamma, \alpha)^{46}\text{Sc}$	0.003	$^{58}\text{Ni}(\gamma, p)^{57}\text{Co}$	0.944
$^{25}\text{Mg}(\gamma, p)^{24}\text{Na}$	0.955	$^{48}\text{Ti}(\gamma, p)^{47}\text{Sc}$	0.956	$^{59}\text{Co}(\gamma, n)^{58}\text{Co}$	0.973
$^{27}\text{Al}(n, \alpha)^{24}\text{Na}$	0.005	$^{51}\text{V}(\gamma, \alpha)^{47}\text{Sc}$	0.044	$^{60}\text{Ni}(\gamma, np)^{58}\text{Co}$	0.026
$^{27}\text{Al}(n, \gamma)^{28}\text{Al}$	0.020	$^{50}\text{V}(\gamma, 2n)^{48}\text{V}$	0.106	$^{63}\text{Cu}(\gamma, \alpha n)^{58}\text{Co}$	0.001
$^{29}\text{Si}(\gamma, p)^{28}\text{Al}$	0.928	$^{50}\text{Cr}(\gamma, np)^{48}\text{V}$	0.894	$^{59}\text{Co}(n, \gamma)^{60}\text{Co}$	0.415
$^{31}\text{P}(n, \alpha)^{28}\text{Al}$	0.052	$^{51}\text{V}(n, \gamma)^{52}\text{V}$	0.283	$^{61}\text{Ni}(\gamma, p)^{60}\text{Co}$	0.581
$^{35}\text{Cl}(\gamma, n)^{34m}\text{Cl}$	0.999	$^{53}\text{Cr}(\gamma, p)^{52}\text{V}$	0.717	$^{65}\text{Cu}(\gamma, \alpha n)^{60}\text{Co}$	0.004
$^{39}\text{K}(\gamma, \alpha n)^{34m}\text{Cl}$	0.001	$^{50}\text{Cr}(\gamma, n)^{49}\text{Cr}$	0.999	$^{63}\text{Cu}(\gamma, n)^{62}\text{Cu}$	0.992
$^{39}\text{K}(\gamma, n)^{38}\text{K}$	0.989	$^{54}\text{Fe}(\gamma, \alpha n)^{49}\text{Cr}$	0.001	$^{64}\text{Zn}(\gamma, np)^{62}\text{Cu}$	0.008
$^{40}\text{Ca}(\gamma, np)^{38}\text{K}$	0.021	$^{52}\text{Cr}(\gamma, n)^{51}\text{Cr}$	0.999	$^{65}\text{Cu}(n, \gamma)^{66}\text{Cu}$	0.560
$^{41}\text{K}(n, \gamma)^{42}\text{K}$	0.060	$^{56}\text{Fe}(\gamma, \alpha n)^{51}\text{Cr}$	4 E-4	$^{67}\text{Zn}(\gamma, p)^{66}\text{Cu}$	0.440
$^{43}\text{Ca}(\gamma, p)^{42}\text{K}$	0.940	$^{55}\text{Mn}(n, \gamma)^{54}\text{Mn}$	0.983	$^{65}\text{Cu}(\gamma, n)^{64}\text{Cu}$	0.989
$^{45}\text{Sc}(\gamma, n)^{44}\text{Sc}$	0.999	$^{56}\text{Fe}(\gamma, np)^{54}\text{Mn}$	0.014	$^{66}\text{Zn}(\gamma, np)^{64}\text{Cu}$	0.008
$^{46}\text{Ti}(\gamma, np)^{44}\text{Sc}$	2 E-4	$^{59}\text{Co}(\gamma, \alpha n)^{54}\text{Mn}$	0.003	$^{69}\text{Ga}(\gamma, \alpha n)^{64}\text{Cu}$	0.003

Reactions	Distribution of activity	Reactions	Distribution of activity	Reactions	Distribution of activity
$^{68}\text{Zn}(\gamma, p)^{67}\text{Cu}$	0.419	$^{76}\text{Ge}(\gamma, n)^{75}\text{Ge}$	0.985	$^{85}\text{Rb}(\gamma, n)^{84}\text{Rb}$	≈ 0.999
$^{71}\text{Ga}(\gamma, \alpha)^{67}\text{Cu}$	0.581	$^{80}\text{Se}(\gamma, \alpha)^{75}\text{Ge}$	0.015	$^{86}\text{Sr}(\gamma, np)^{84}\text{Rb}$	3 E-5
$^{71}\text{Ga}(n, \gamma)^{72}\text{Ga}$	0.423	$^{76}\text{Ge}(\gamma, n)^{75m}\text{Ge}$	≈ 0.999	$^{85}\text{Rb}(\gamma, 2n)^{83}\text{Rb}$	0.946
$^{73}\text{Ge}(\gamma, p)^{72}\text{Ga}$	0.577	$^{80}\text{Se}(\gamma, \alpha)^{75m}\text{Ge}$	3 E-8	$^{84}\text{Sr}(\gamma, p)^{83}\text{Rb}$	0.054
$^{70}\text{Zn}(\gamma, n)^{69m}\text{Zn}$	0.117	$^{75}\text{As}(\gamma, n)^{74}\text{As}$	≈ 0.999	$^{87}\text{Rb}(\gamma, n)^{86m}\text{Rb}$	0.940
$^{71}\text{Ga}(\gamma, np)^{69m}\text{Zn}$	0.040	$^{76}\text{Se}(\gamma, np)^{74}\text{As}$	1 E-4	$^{87}\text{Sr}(\gamma, p)^{86m}\text{Rb}$	0.060
$^{73}\text{Ge}(\gamma, \alpha)^{69m}\text{Zn} +$		$^{79}\text{Br}(\gamma, \alpha)^{74}\text{As}$	4 E-5	$^{85}\text{Rb}(\gamma, n)^{84m}\text{Rb}$	≈ 0.999
$^{74}\text{Ge}(\gamma, \alpha)^{69m}\text{Zn}$	0.843	$^{75}\text{As}(n, \gamma)^{76}\text{As}$	0.578	$^{86}\text{Sr}(\gamma, np)^{84m}\text{Rb}$	3 E-4
$^{66}\text{Zn}(\gamma, n)^{65}\text{Zn}$	0.996	$^{77}\text{Se}(\gamma, np)^{76}\text{As}$	0.194	$^{89}\text{Y}(\gamma, \alpha n)^{84m}\text{Rb}$	4 E-6
$^{70}\text{Ge}(\gamma, \alpha n)^{65}\text{Zn}$	0.004	$^{81}\text{Br}(\gamma, \alpha n)^{76}\text{As}$	0.228	$^{88}\text{Sr}(\gamma, n)^{87m}\text{Sr}$	0.997
$^{69}\text{Ga}(\gamma, n)^{68}\text{Ga}$	0.997	$^{78}\text{Se}(\gamma, p)^{77}\text{As}$	0.061	$^{89}\text{Y}(\gamma, np)^{87m}\text{Sr} +$	
$^{70}\text{Ge}(\gamma, np)^{68}\text{Ga}$	0.003	$^{81}\text{Br}(\gamma, \alpha)^{77}\text{As}$	0.939	$^{89}\text{Y}(\gamma, 2n, \beta^+)^{87m}\text{Sr} +$	
$^{71}\text{Ga}(\gamma, n)^{70}\text{Ga}$	0.728	$^{81}\text{Br}(\gamma, n)^{80}\text{Br}$	≈ 0.999	$^{89}\text{Y}(\gamma, 2n, IT, \beta^+)^{87m}\text{Sr}$	0.002
$^{72}\text{Ge}(\gamma, np)^{70}\text{Ga}$	0.272	$^{85}\text{Rb}(\gamma, \alpha n)^{80}\text{Br}$	2 E-4	$^{91}\text{Zr}(\gamma, \alpha)^{87m}\text{Sr}$	0.001
$^{71}\text{Ga}(n, \gamma)^{72}\text{Ga}$	0.423	$^{81}\text{Br}(\gamma, n)^{80m}\text{Br}$	0.705	$^{89}\text{Y}(\gamma, n)^{88}\text{Y}$	≈ 0.999
$^{73}\text{Ge}(\gamma, p)^{72}\text{Ga}$	0.577	$^{85}\text{Rb}(\gamma, \alpha n)^{80m}\text{Br}$	0.295	$^{90}\text{Zr}(\gamma, np)^{88}\text{Y}$	4 E-4
$^{70}\text{Ge}(\gamma, n)^{69}\text{Ge}$	≈ 0.999	$^{81}\text{Br}(n, \gamma)^{82}\text{Br}$	0.551	$^{89}\text{Y}(\gamma, \gamma)^{89m}\text{Y}$	0.391
$^{74}\text{Se}(\gamma, \alpha n)^{69}\text{Ge}$	7 E-4	$^{87}\text{Rb}(\gamma, \alpha n)^{82}\text{Br}$	0.449	$^{90}\text{Zr}(\gamma, p)^{89m}\text{Y}$	0.609

Reactions	Distribution of activity	Reactions	Distribution of activity	Reactions	Distribution of activity
$^{93}\text{Nb}(\gamma, n)^{92\text{m}}\text{Nb}$	≥ 0.999	$^{108}\text{Pd}(\gamma, n)^{107\text{m}}\text{pd}$	0.943	$^{113}\text{In}(\gamma, 2n)^{111}\text{In}$	0.067
$^{94}\text{Mo}(\gamma, np)^{92\text{m}}\text{Nb}$	5 E-4	$^{109}\text{Ag}(\gamma, np)^{107\text{m}}\text{pd}$	0.057	$^{112}\text{Sn}(\gamma, p)^{111}\text{In}$	0.933
$^{93}\text{Nb}(\gamma, 2n)^{91\text{m}}\text{Nb}$	0.010	$^{107}\text{Ag}(\gamma, n)^{106}\text{Ag}$	0.998	$^{113}\text{In}(\gamma, 2n)^{111\text{m}}\text{In}$	0.899
$^{92}\text{Mo}(\gamma, p)^{91\text{m}}\text{Nb}$	0.990	$^{108}\text{Cd}(\gamma, np)^{106}\text{Ag}$	0.002	$^{112}\text{Sn}(\gamma, p)^{111\text{m}}\text{In}$	0.101
$^{93}\text{Nb}(n, \gamma)^{94\text{m}}\text{Nb}$	0.229	$^{107}\text{Ag}(\gamma, 2n)^{105}\text{Ag}$	0.984	$^{113}\text{In}(\gamma, \gamma^-)^{113\text{m}}\text{In} +$	
$^{95}\text{Mo}(\gamma, p)^{94\text{m}}\text{Nb}$	0.771	$^{106}\text{Cd}(\gamma, p)^{105}\text{Ag}$	0.016	$^{115}\text{In}(\gamma, 2n)^{113\text{m}}\text{In}$	0.980
$^{103}\text{Rh}(\gamma, n)^{102}\text{Rh}$	0.998	$^{107}\text{Ag}(\gamma, \gamma^-)^{107\text{m}}\text{Ag} +$		$^{114}\text{Sn}(\gamma, p)^{113\text{m}}\text{In}$	0.020
$^{104}\text{Pd}(\gamma, np)^{102}\text{Rh}$	0.002	$^{109}\text{Ag}(\gamma, 2n)^{107\text{m}}\text{Ag}$	0.977	$^{115}\text{In}(\gamma, n)^{114}\text{In}$	0.998
$^{103}\text{Rh}(\gamma, n)^{102\text{m}}\text{Rh}$	0.999	$^{108}\text{Cd}(\gamma, p)^{107\text{m}}\text{Ag}$	0.023	$^{115}\text{Sn}(\gamma, p)^{114}\text{In}$	0.002
$^{104}\text{Pd}(\gamma, np)^{102\text{m}}\text{Rh}$	0.001	$^{109}\text{Ag}(\gamma, n)^{108}\text{Ag}$	0.994	$^{115}\text{In}(\gamma, n)^{114\text{m}}\text{In}$	≥ 0.999
$^{103}\text{Rh}(\gamma, 2n)^{101}\text{Rh}$	0.993	$^{110}\text{Cd}(\gamma, np)^{108}\text{Ag}$	0.006	$^{115}\text{Sn}(\gamma, p)^{114\text{m}}\text{In}$	4 E-4
$^{102}\text{Pd}(\gamma, p)^{101}\text{Rh}$	0.007	$^{109}\text{Ag}(\gamma, \gamma^-)^{109\text{m}}\text{Ag}$	0.030	$^{115}\text{In}(\gamma, \gamma^-)^{115\text{m}}\text{In}$	0.002
$^{103}\text{Rh}(\gamma, 2n)^{101\text{m}}\text{Rh}$	0.251	$^{110}\text{Cd}(\gamma, p)^{109\text{m}}\text{Ag}$	0.970	$^{116}\text{Sn}(\gamma, p)^{115\text{m}}\text{In}$	0.998
$^{102}\text{Pd}(\gamma, p)^{101\text{m}}\text{Rh}$	0.749	$^{109}\text{Ag}(n, \gamma)^{110}\text{Ag}$	0.949	$^{115}\text{In}(n, \gamma)^{116\text{m}}\text{In}$	0.996
$^{103}\text{Rh}(n, \gamma)^{104}\text{Rh}$	0.984	$^{111}\text{Cd}(\gamma, p)^{110}\text{Ag}$	0.051	$^{117}\text{Sn}(\gamma, p)^{116\text{m}}\text{In}$	0.004
$^{105}\text{Pd}(\gamma, p)^{104}\text{Rh}$	0.016	$^{109}\text{Ag}(n, \gamma)^{110\text{m}}\text{Ag}$	3 E-4	$^{123}\text{Sb}(\gamma, n)^{122}\text{Sb}$	≥ 0.999
		$^{111}\text{Cd}(\gamma, p)^{110\text{m}}\text{Ag}$	≥ 0.999	$^{123}\text{Te}(\gamma, p)^{122}\text{Sb}$	2 E-4

Reactions	Distribution of activity	Reactions	Distribution of activity	Reactions	Distribution of activity
$^{123}\text{Sb}(n, \gamma)^{124}\text{Sb}$	0.484	$^{176}\text{Lu}(n, \gamma)^{177\text{m}}\text{Lu}$	0.317	$^{193}\text{Ir}(n, \gamma)^{194}\text{Ir}$	0.759
$^{125}\text{Te}(\gamma, p)^{124}\text{Sb}$	0.516	$^{178}\text{Hf}(\gamma, p)^{177\text{m}}\text{Lu}$	0.683	$^{195}\text{Pt}(\gamma, p)^{194}\text{Ir}$	0.241
$^{138}\text{Ba}(\gamma, n)^{137\text{m}}\text{Ba}$	0.998	$^{180}\text{Hf}(\gamma, n)^{179\text{m}}\text{Hf}$	0.999	$^{197}\text{Au}(n, \gamma)^{198}\text{Au}$	0.945
$^{138}\text{La}(\gamma, p)^{137\text{m}}\text{Ba}$	0.002	$^{180}\text{Ta}(\gamma, p)^{179\text{m}}\text{Hf}$	2 E-4	$^{199}\text{Hg}(\gamma, p)^{198}\text{Au}$	0.055
$^{141}\text{Pr}(n, \gamma)^{142}\text{Pr}$	0.658	$^{180}\text{Hf}(\gamma, \gamma)^{180\text{m}}\text{Hf} +$			
$^{143}\text{Nd}(\gamma, p)^{142}\text{Pr}$	0.342	$^{179}\text{Hf}(n, \gamma)^{180\text{m}}\text{Hf}$	0.112		
$^{153}\text{Eu}(n, \gamma)^{154}\text{Eu}$	0.557	$^{181}\text{Ta}(\gamma, p)^{180\text{m}}\text{Hf}$	0.888		
$^{155}\text{Gd}(\gamma, p)^{154}\text{Eu}$	0.443	$^{181}\text{Ta}(n, \gamma)^{182}\text{Ta}$	0.492		
$^{159}\text{Tb}(n, \gamma)^{160}\text{Tb}$	0.961	$^{183}\text{W}(\gamma, p)^{182}\text{Ta}$	0.508		
$^{161}\text{Dy}(\gamma, p)^{160}\text{Tb}$	0.040	$^{185}\text{Re}(\gamma, 2n)^{183}\text{Re}$	0.854		
$^{165}\text{Ho}(n, \gamma)^{166}\text{Ho}$	0.975	$^{184}\text{Os}(\gamma, p)^{183}\text{Re}$	0.146		
$^{167}\text{Er}(\gamma, p)^{166}\text{Ho}$	0.025	$^{187}\text{Re}(\gamma, n)^{186}\text{Re}$	0.686		
$^{169}\text{Tm}(\gamma, 2n)^{167}\text{Tm}$	0.992	$^{187}\text{Os}(\gamma, p)^{186}\text{Re}$	0.314		
$^{168}\text{Yb}(\gamma, p)^{167}\text{Tm}$	0.008	$^{187}\text{Re}(n, \gamma)^{188}\text{Re}$	0.986		
$^{176}\text{Yb}(\gamma, n)^{175}\text{Yb}$	0.996	$^{189}\text{Os}(\gamma, p)^{188}\text{Re}$	0.014		
$^{176}\text{Lu}(\gamma, p)^{175}\text{Yb}$	0.004	$^{192}\text{Os}(\gamma, 2n)^{190\text{m}}\text{Os}$	0.006		
$^{176}\text{Lu}(n, \gamma)^{177}\text{Lu}$	0.576	$^{191}\text{Ir}(\gamma, p)^{190\text{m}}\text{Os}$	0.994		
$^{178}\text{Hf}(\gamma, p)^{177}\text{Lu}$	0.424				

5.3.6 Sensitivities in photon activation analysis

As noted above, sensitivities in photon activation analysis are strongly dependent upon a large variety of experimental parameters and therefore barely reproducible when using different devices. However, to give an idea of the order of magnitude of the sensitivity achievable with photon activation analysis, absolute sensitivity values are presented in table 5-7. These data are valid under the irradiation and measurement conditions specified in Ch's. 3 and 4, respectively (see also Segebade et al.⁶⁹³), which were applied in the authors' laboratory.

In the first column all included elements, in the second the analytically most relevant reactions are listed. In case of possible severe interference by other target elements an alternative reaction is given. Half-lives of the reaction products are listed in the third, and the most prominent (or the analytically most relevant) gamma-ray energies are given in the fourth column. The data in columns 2-4 refer to conventional gamma spectroscopy. The corresponding data in columns 5-7 are valid for low energy photon spectroscopy after activation.

The sensitivity data in the last four columns are calculated assuming a net photopeak integral of one thousand counts collected within a counting period of 12 hours. The first value refers to gamma spectroscopy performed after a cooling period of six hours or as indicated, the next value is obtained by low energy photon spectroscopy after the same decay period. The third and the fourth value are the corresponding sensitivities obtained after a cooling time of one day. The quoted periods have been selected following conditions which have been applied to practical analytical work in the authors' laboratory.

----- Gamma spectroscopy ----- LEPS ----- Sensitivity, μg -----

Decay period:

5 m 24 h

Elem.	Reaction	T	E, keV(1%)	Reaction	T	E, keV(1%)	Origin	Y	LEP	Y	LEP
C	$^{12}\text{C}(\gamma, n)^{11}\text{C}^a$	20 m	511(200) ^b	---	---	---	---	0.1	---	---	---
N	$^{14}\text{N}(\gamma, n)^{13}\text{N}^a$	9.96 m	511(200) ^b	---	---	---	---	0.02	---	---	---
O	$^{16}\text{O}(\gamma, n)^{15}\text{O}^a$	2 m	511(200) ^b	---	---	---	---	0.05	---	---	---
F	$^{19}\text{F}(\gamma, n)^{18}\text{F}^a$	109.7 m	511(193) ^b	---	---	---	---	0.001	---	---	---
								6 h	24 h		
Na	$^{23}\text{Na}(n, \gamma)^{24}\text{Na}^a$	15 h	1369(100)	---	---	---	---	70	---	150	---
	$^{23}\text{Na}(\gamma, n)^{22}\text{Na}^a$	2.6 a	1275(100)	---	---	---	---	150	---	150	---
Mg	$^{25}\text{Mg}(\gamma, p)^{24}\text{Na}^a$	15 h	1369(100)	---	---	---	---	3	---	6	---
Al	$^{27}\text{Al}(n, \gamma)^{28}\text{Al}^a$	15 h	1369(100)	---	---	---	---	280	---	560	---
								5 m	24 h		
Cl	$^{35}\text{Cl}(\gamma, n)^{34}\text{mCl}$	32 m	147(45) ^b	---	---	---	---	0.01	---	---	---
			2129(38)	---	---	---	---	0.09	---	---	---
K	$^{39}\text{K}(\gamma, n)^{38}\text{K}^a$	7.7 m	2168(100)	---	---	---	---	0.01	---	---	---
								6 h	24 h		
Ca	$^{44}\text{Ca}(\gamma, p)^{43}\text{K}$	22.2 h	373(100)	---	---	---	---	5	---	8	---
Sc	$^{45}\text{Sc}(\gamma, n)^{44}\text{Sc}^a$	3.92 h	1157(94)	---	---	---	---	0.05	---	1	---
	$^{45}\text{Sc}(\gamma, n)^{44\text{m}}\text{Sc}^a$	2.44 d	271(86)	---	---	---	---	0.7	---	0.9	---
Ti	$^{48}\text{Ti}(\gamma, p)^{47}\text{Sc}^a$	3.42 d	159(70) ^b	---	---	---	---	0.05	---	1	---
	$^{49}\text{Ti}(\gamma, p)^{48}\text{Sc}$	43.67 h	984(100)	---	---	---	---	13	---	18	---
V	$^{51}\text{V}(\gamma, \alpha)^{47}\text{Sc}^a$	3.42 d	159(70) ^b	$^{50}\text{V}(\gamma, n)^{49}\text{V}$	330 d	4.51(?)	$\text{k}\alpha 1 \text{ Ti}$	2	1900	2	1900
Cr	$^{52}\text{Cr}(\gamma, n)^{51}\text{Cr}^a$	27.7 d	320(10)	$^{52}\text{Cr}(\gamma, n)^{51}\text{Cr}$	27.7 d	4.95(?)	$\text{k}\alpha 1 \text{ V}$	3	11	3	11
Mn	$^{55}\text{Mn}(\gamma, n)^{54}\text{Mn}^a$	312.2 d	835(100)	$^{55}\text{Mn}(\gamma, n)^{54}\text{Mn}^a$	312.2 d	5.41(15)	$\text{k}\alpha 1 \text{ Cr}$	15	80	15	80
	$^{55}\text{Mn}(n, \gamma)^{56}\text{Mn}^a$	2.58 h	847(99)	---	---	---	---	4	---	500	---
Fe	$^{57}\text{Fe}(\gamma, p)^{56}\text{Mn}^a$	2.58 h	847(99)	$^{56}\text{Fe}(\gamma, n)^{55}\text{Fe}$	2.7 a	5.90(?)	$\text{k}\alpha 1 \text{ Mn}$	8	310	1000	310

Elem.	Reaction	T	E, keV(%)	Reaction	T	E, keV(%)	Origin	Decay period:		Sensitivity, μg	
								γ	LEP		γ
Fe	$^{54}\text{Fe}(\gamma, \text{np})^{52}\text{Mn}$	5.7 d	744(85)	---	---	---	---	1900	---	2100	---
Co	$^{59}\text{Co}(\gamma, \text{n})^{58}\text{Co}^a$	70.78 d	811(100)	$^{59}\text{Co}(\gamma, \text{n})^{58\text{m}}\text{Co}^a$	8.94 h	6.93(22)	k α 1 Co	2	0.1	2	0.4
Ni	$^{58}\text{Ni}(\gamma, \text{n})^{57}\text{Ni}$	36 h	1378(79)	$^{58}\text{Ni}(\gamma, \text{n})^{57}\text{Ni}$	36 h	6.93(10)	k α 1 Co	0.6	1	0.9	2
Cu	$^{65}\text{Cu}(\gamma, \text{n})^{64}\text{Cu}^a$	12.7 h	1346(0.6)	$^{65}\text{Cu}(\gamma, \text{n})^{64}\text{Cu}$	12.7 h	7.48(14)	k α 1 Ni	36	0.3	80	0.7
	$^{63}\text{Cu}(\gamma, \text{2n})^{61}\text{Cu}$	3.3 h	283(13)	---	---	---	---	2	---	90	---
Zn	$^{68}\text{Zn}(\gamma, \text{p})^{67}\text{Cu}$	61.9 h	185(47)	$^{64}\text{Zn}(\gamma, \text{2n})^{62}\text{Zn}$	9.13 h	8.05(35)	k α 1 Cu	1	6	1	24
	---	---	---	$^{66}\text{Zn}(\gamma, \text{n})^{65}\text{Zn}$	244 d	40.9(25)	γ	---	6	---	24
	---	---	---	$^{69}\text{Ga}(\gamma, \text{2n})^{67}\text{Ga}$	78.3 h	8.05(35)	k α 1 Cu	---	20	---	20
Ga	$^{69}\text{Ga}(\gamma, \text{2n})^{67}\text{Ga}$	78.3 h	93(38) ^b	$^{69}\text{Ga}(\gamma, \text{2n})^{67}\text{Ga}$	78.3 h	8.64(2)	k α 1 Zn	0.9	2	1	3
	---	---	185(24) ^b	---	---	---	---	2	---	2	---
	---	---	300(21)	---	---	---	---	4	---	4	---
Ge	$^{73}\text{Ge}(\gamma, \alpha)^{69\text{m}}\text{Zn}^a$	13.9 h	439(100)	$^{70}\text{Ge}(\gamma, \text{n})^{69}\text{Ge}$	39 h	9.25(30)	k α 1 Ga	0.6	0.4	2	0.6
	$^{74}\text{Ge}(\gamma, \text{p})^{73}\text{Ga}$	4.8 h	297(94)	---	---	---	---	0.3	---	4	---
	$^{70}\text{Ge}(\gamma, \text{n})^{69}\text{Ge}$	39 h	1107(28)	---	---	---	---	2	---	2	---
As	$^{75}\text{As}(\gamma, \text{n})^{74}\text{As}$	17.77 d	596(60) ^b	$^{75}\text{As}(\gamma, \text{n})^{74}\text{As}$	17.77 d	9.89(16)	k α 1 Ge	0.5	1	0.5	1
Se	$^{74}\text{Se}(\gamma, \text{n})^{73}\text{Se}$	7.1 h	361(100)	$^{74}\text{Se}(\gamma, \text{n})^{73}\text{Se}$	7.1 h	10.54(15)	k α 1 As	1	8	8	50
	$^{76}\text{Se}(\gamma, \text{n})^{75}\text{Se}$	120 d	136(55) ^b	---	---	---	---	8	---	8	---
Br	$^{81}\text{Br}(\gamma, \alpha)^{77}\text{As}^a$	38.8 h	239(2)	$^{81}\text{Br}(\gamma, \text{n})^{80\text{m}}\text{Br}$	4.42 h	11.92(100)	k α 1 Br	3	0.1	5	2
	$^{79}\text{Br}(\gamma, \text{2n})^{77}\text{Br}$	56 h	520(24)	---	---	---	γ	4	0.1	5	2
Rb	$^{85}\text{Rb}(\gamma, \text{n})^{84}\text{Rb}$	34.5 d	882(74)	$^{85}\text{Rb}(\gamma, \text{n})^{84}\text{Rb}$	34.5 h	12.65(35)	k α 1 Kr	2	2	2	2
Sr	$^{88}\text{Sr}(\gamma, \text{n})^{87\text{m}}\text{Sr}^a$	2.81 h	388(79)	$^{88}\text{Sr}(\gamma, \text{n})^{87\text{m}}\text{Sr}^a$	2.81 h	14.17(99)	k α 1 Sr	0.02	0.4	1	30
	$^{86}\text{Sr}(\gamma, \text{n})^{85\text{m}}\text{Sr}$	67.7 m	232(85)	$^{84}\text{Sr}(\gamma, \text{n})^{83}\text{Sr}$	33 h	13.40(50)	k α 1 Rb	0.3	5	---	7
	$^{84}\text{Sr}(\gamma, \text{n})^{83}\text{Sr}$	33 h	381(24) ^b	$^{86}\text{Sr}(\gamma, \text{n})^{85}\text{Sr}$	64.9 d	13.40(50)	k α 1 Rb	30	7	40	7
	---	---	763(30)	---	---	---	---	35	---	50	---

Gamma spectroscopy

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Elem.	Reaction	T	E, keV(%)	Reaction	T	E, keV(%)	Origin	Sensitivity, µg	
								6 h	24 h
Y	$^{89}\text{Y}(\gamma, n)^{88}\text{Y}$	108 d	898(91)	$^{89}\text{Y}(\gamma, n)^{88}\text{Y}$	108 d	14.17(53)	kα1 Sr	3	2
Zr	$^{90}\text{Zr}(\gamma, n)^{89}\text{Zr}$	78.4 h	909(99)	$^{90}\text{Zr}(\gamma, n)^{89}\text{Zr}$	78.4 h	14.96(40)	kα1 Y	0.3	0.3
Nb	$^{93}\text{Nb}(\gamma, n)^{92}\text{mNb}$	10.15 d	935(99)	$^{93}\text{Nb}(\gamma, n)^{92}\text{mNb}$	10.15 d	15.78(50)	kα1 Zr	0.7	0.3
Mo	$^{100}\text{Mo}(\gamma, n, \beta^-)^{99}\text{mTc}$	(6 h)	141(89) ^b	$^{100}\text{Mo}(\gamma, n, \beta^-)^{99}\text{mTc}$	(6 h)	18.37(10)	kα1 Tc	0.2	0.3
	$^{94}\text{Mo}(\gamma, n)^{93}\text{mMo}$	6.9 h	263(57)	$^{92}\text{Mo}(\gamma, p)^{91}\text{mNb}$	62 d	16.62(40)	kα1 Nb	0.8	5
Ru	$^{96}\text{Ru}(\gamma, n)^{95}\text{Ru}$	1.65 h	336(70)	$^{96}\text{Ru}(\gamma, n)^{95}\text{Ru}$	1.65 h	18.37(40)	kα1 Tc	0.1	0.3
	$^{98}\text{Ru}(\gamma, n)^{97}\text{Ru}$	2.9 d	216(91)	$^{96}\text{Ru}(\gamma, p)^{95}\text{Tc}$	20 h	17.48(50)	kα1 Mo	0.2	0.6
Rh	$^{103}\text{Rh}(\gamma, 2n)^{101}\text{mRh}$	4.4 d	307(87)	$^{103}\text{Rh}(\gamma, 2n)^{101}\text{mRh}$	4.4 d	19.28(58)	kα1 Ru	0.4	0.7
Pd	$^{102}\text{Pd}(\gamma, n)^{101}\text{Pd}$	8.47 h	296(18)	$^{110}\text{Pd}(\gamma, n)^{109}\text{Pd}$	13.46 h	88.0(4)	γ	0.01	0.004
	$^{110}\text{Pd}(\gamma, n)^{109}\text{Pd}$	13.46 h	311(0.03)	$^{102}\text{Pd}(\gamma, n)^{101}\text{Pd}$	8.47 h	20.22(60)	kα1 Rh	0.9	0.07
Ag	$^{107}\text{Ag}(\gamma, n)^{106}\text{mAg}$	8.3 d	451(28)	$^{107}\text{Ag}(\gamma, n)^{106}\text{mAg}$	8.3 d	21.18(60)	kα1 Pd	14	3
Cd	$^{116}\text{Cd}(\gamma, n)^{115}\text{Cd}$	53.38 d	528(50)	$^{108}\text{Cd}(\gamma, n)^{107}\text{Cd}$	6.5 h	22.16(60)	kα1 Ag	1	0.2
	---	---	---	$^{116}\text{Cd}(\gamma, n, \beta^-)^{115}\text{mIn}$	(4.5 h)	24.21(20)	kα1 In	---	1
In	$^{115}\text{In}(\gamma, 2n)^{113}\text{mIn}^a$	99.48 m	393(64)	$^{115}\text{In}(\gamma, 2n)^{113}\text{mIn}^a$	99.48 m	24.21(13)	kα1 In	1	---
	$^{115}\text{In}(\gamma, n)^{114}\text{mIn}^a$	49.5 d	190(17)	$^{115}\text{In}(\gamma, n)^{114}\text{mIn}^a$	49.5 d	24.21(13)	kα1 In	2	0.7
Sn	$^{118}\text{Sn}(\gamma, n)^{117}\text{mSn}$	14 d	158(84) ^b	$^{112}\text{Sn}(\gamma, p)^{111}\text{In}^a$	2.83 d	23.17(68)	kα1 Cd	2	6
	$^{112}\text{Sn}(\gamma, p)^{111}\text{In}^a$	2.83 d	245(94)	$^{118}\text{Sn}(\gamma, n)^{117}\text{mSn}$	14 d	25.27(33)	kα1 Sn	0.2	12
Sb	$^{123}\text{Sb}(\gamma, n)^{122}\text{Sb}$	2.7 d	564(70)	$^{123}\text{Sb}(\gamma, n)^{122}\text{Sb}$	2.7 d	25.27(61)	kα1 Sn	0.1	0.3
Te	$^{128}\text{Te}(\gamma, n)^{127}\text{Te}$	9.35 h	418(1)	$^{122}\text{Te}(\gamma, n)^{121}\text{Te}$	16.8 d	26.36(64)	kα1 Sb	2	4
I	$^{127}\text{I}(\gamma, n)^{126}\text{I}$	13 d	389(35) ^b	$^{127}\text{I}(\gamma, n)^{126}\text{I}$	13 d	27.47(23)	kα1 Te	0.4	0.2
	---	---	754(4)	---	---	---	---	6	---
Cs	$^{133}\text{Cs}(n, \gamma)^{134}\text{mCs}^a$	2.9 h	127(13) ^b	$^{133}\text{Cs}(\gamma, n)^{132}\text{Cs}$	6.47 d	29.78(40)	kα1 Xe	0.08	0.07
	$^{133}\text{Cs}(\gamma, n)^{132}\text{Cs}$	6.47 d	668(100) ^b	---	---	---	---	0.1	---
	---	---	1136(0.5)	---	---	---	---	10	---

Elem.	Reaction	T	E, keV(%)	Reaction	T	E, keV(%)	Origin	γ	LEP	Y	LEP
Ba	$^{136}\text{Ba}(\gamma, n)^{135\text{m}}\text{Ba}$	28.7 h	268(16) ^b	$^{136}\text{Ba}(\gamma, n)^{135\text{m}}\text{Ba}$	28.7 h	32.19(38)	k α 1 Ba	2	1	4	2
La	$^{139}\text{La}(n, \gamma)^{140}\text{La}$	40.2 h	487(45)	$^{139}\text{La}(n, \gamma)^{140}\text{La}$	40.2 h	34.72(0.4)	k α 1 Ce	34	1100	34	1100
Ce	$^{140}\text{Ce}(\gamma, n)^{139}\text{Ce}$	137.5 d	166(80)	$^{140}\text{Ce}(\gamma, n)^{139}\text{Ce}$	137.5 d	33.44(9)	k α 1 La	0.6	0.2	0.6	0.2
Pr	$^{141}\text{Pr}(\gamma, 2n)^{139}\text{Pr}$	4.5 h	255(0.2)	$^{141}\text{Pr}(\gamma, 2n)^{139}\text{Pr}$	4.5 h	34.72(50)	k α 1 Ce	0.9	0.2	15	3
Nd	$^{150}\text{Nd}(\gamma, n)^{149}\text{Nd}$	1.73 h	211(31)	$^{142}\text{Nd}(\gamma, n)^{141}\text{Nd}$	2.5 h	36.03(60)	k α 1 Pr	1	0.08	---	11
	$^{148}\text{Nd}(\gamma, n)^{147}\text{Nd}$	10.98 d	91(27) ^b	$^{150}\text{Nd}(\gamma, n)^{149}\text{Nd}$	1.73 h	38.72(20)	k α 1 Pm	4	2	4	---
			531(12)	$^{148}\text{Nd}(\gamma, n)^{147}\text{Nd}$	10.98 d	38.72(23)	k α 1 Pm	25	5	25	5
Sm	$^{154}\text{Sm}(\gamma, n)^{153}\text{Sm}$	46.75 h	103(28)	$^{154}\text{Sm}(\gamma, n)^{153}\text{Sm}$	46.75 h	41.54(30)	k α 1 Eu	0.05	0.2	0.07	0.3
Eu	$^{153}\text{Eu}(\gamma, n)^{152\text{m}}\text{Eu}$	96 m	90(72) ^b	$^{151}\text{Eu}(\gamma, n)^{150\text{m}}\text{Eu}$	12.6 h	40.12(4.4)	k α 1 Sm	0.3	0.06	---	0.2
	$^{151}\text{Eu}(\gamma, n)^{150\text{m}}\text{Eu}$	12.6 h	334(4)		---	---	---	0.7	---	2	---
Gd	$^{160}\text{Gd}(\gamma, n)^{159}\text{Gd}$	18.56 h	363(10)	$^{160}\text{Gd}(\gamma, n)^{159}\text{Gd}$	18.56 h	44.48(6.3)	k α 1 Tb	0.3	0.3	0.6	0.6
Tb	$^{159}\text{Tb}(n, \gamma)^{160}\text{Tb}^{\text{a}}$	72.1 d	299(27)	$^{159}\text{Tb}(\gamma, 3n)^{156}\text{Tb}$	5.35 d	43.00(55)	k α 1 Gd	66	63	66	70
Dy	$^{158}\text{Dy}(\gamma, n)^{157}\text{Dy}$	8.1 h	326(94)	$^{164}\text{Dy}(n, \gamma)^{165}\text{Dy}$	2.35 h	47.55(5.1)	k α 1 Ho	5	2	25	320
		---	---	$^{160}\text{Dy}(\gamma, n)^{159}\text{Dy}$	144.4 d	44.48(51)	k α 1 Tb	---	33	---	33
Ho	$^{165}\text{Ho}(\gamma, 3n)^{162\text{m}}\text{Ho}$	68 m	185(29) ^b	$^{165}\text{Ho}(n, \gamma)^{166}\text{Ho}^{\text{a}}$	26.7 h	49.13(4.7)	k α 1 Er	24	5	---	8
	$^{165}\text{Ho}(n, \gamma)^{166}\text{Ho}^{\text{a}}$	26.7 h	1379(0.9) ^b			80.6(6)	γ	130	6	210	9
Er	$^{168}\text{Er}(\gamma, p)^{167}\text{Er}$	3.1 h	347(57)	$^{162}\text{Er}(\gamma, n)^{161}\text{Er}$	3.1 h	47.55(60)	k α 1 Ho	6	0.05	---	0.2
	$^{170}\text{Er}(n, \gamma)^{171}\text{Er}$	7.5 h	308(64)		---	---	---	12	---	60	---
Tm	$^{169}\text{Tm}(\gamma, 2n)^{167}\text{Tm}$	9.25 d	208(41)	$^{169}\text{Tm}(\gamma, 2n)^{167}\text{Tm}$	9.25 d	49.13(53)	k α 1 Er	0.5	0.2	0.5	0.2
Yb	$^{174}\text{Yb}(\gamma, p)^{173}\text{Tm}$	8.2 h	399(88)	$^{170}\text{Yb}(\gamma, n)^{169}\text{Yb}$	30.7 d	50.74(70)	k α 1 Tm	0.6	2	3	2
	$^{176}\text{Yb}(\gamma, n)^{175}\text{Yb}$	4.2 d	396(6)		---	---	---	2	---	2	---
Lu	$^{175}\text{Lu}(\gamma, 3n)^{172}\text{Lu}$	6.7 d	181(20) ^b	$^{175}\text{Lu}(\gamma, 3n)^{172}\text{Lu}$	6.7 d	52.39(?)	k α 1 Yb	30	3	30	3
			1094(63)		---	---	---	60	---	60	---
Hf	$^{176}\text{Hf}(\gamma, n)^{175}\text{Hf}$	70 d	343(87)	$^{176}\text{Hf}(\gamma, n)^{175}\text{Hf}$	70 d	54.07(35)	k α 1 Lu	4	9	4	9

----- Gamma spectroscopy -----				----- LEPS -----				----- Sensitivity, μg -----					
Elem.	Reaction	T	E, keV(I%)	Reaction	T	E, keV(I%)	Origin	γ	LEP	γ	LEP	γ	LEP
Ta	$^{181}\text{Ta}(\gamma, n)^{180\text{m}}\text{Ta}$	8.1 h	93(4) ^b	$^{181}\text{Ta}(\gamma, n)^{180\text{m}}\text{Ta}$	8.1 h	55.79(39)	$\text{k}\alpha 1 \text{ Hf}$	0.05	0.02	0.2	0.08		
	$^{181}\text{Ta}(\gamma, p)^{180\text{m}}\text{Hf}$	5.5 h	215(82)	---	---	---	---	7	---	70	---		
W	$^{186}\text{W}(n, \gamma)^{187}\text{W}$	23.8 h	479(21)	$^{182}\text{W}(\gamma, n)^{181}\text{W}$	121.2 d	57.54(40)	$\text{k}\alpha 1 \text{ Ta}$	7	8	11	8		
	$^{182}\text{W}(\gamma, n)^{181}\text{W}$	121.2 d	152(0.2)	---	---	---	---	8	---	8	---		
Re	$^{187}\text{Re}(\gamma, n)^{186}\text{Re}^a$	90.64 h	137(9) ^b	$^{185}\text{Re}(\gamma, n)^{184}\text{Re}$	38 d	59.32(5.5)	$\text{k}\alpha 1 \text{ W}$	0.2	0.4	0.2	0.4		
	$^{185}\text{Re}(\gamma, n)^{184}\text{Re}$	38 d	792(38)	---	---	---	---	4	---	4	---		
Os	$^{187}\text{Os}(\gamma, p)^{186}\text{Re}^a$	90.64 h	137(9) ^b	$^{192}\text{Os}(\gamma, n)^{191\text{m}}\text{Os}$	13.03 h	63.00(47)	$\text{k}\alpha 1 \text{ Os}$	0.4	0.3	0.5	0.7		
	$^{186}\text{Os}(\gamma, n)^{185}\text{Os}$	94 d	646(82)	---	---	---	---	80	---	80	---		
Ir	$^{191}\text{Ir}(\gamma, n)^{180\text{m}}\text{Ir}$	3.1 h	187(68) ^b	$^{191}\text{Ir}(\gamma, n)^{190}\text{Ir}$	12.1 d	63.00(48)	$\text{k}\alpha 1 \text{ Os}$	0.1	0.3	8	0.3		
	$^{191}\text{Ir}(\gamma, n)^{190}\text{Ir}$	12.1 d	187(52) ^b	---	---	---	---	0.3	---	18	---		
			605(39)	---	---	---	---	0.4	---	0.4	---		
Pt	$^{198}\text{Pt}(\gamma, n)^{197}\text{Pt}$	20 h	191(4)	$^{190}\text{Pt}(\gamma, n)^{189}\text{Pt}$	11 h	64.90(65)	$\text{k}\alpha 1 \text{ Ir}$	0.9	---	0.9	---		
Au	$^{197}\text{Au}(\gamma, n)^{196\text{m}}\text{Au}$	9.7 h	148(43) ^b	$^{197}\text{Au}(\gamma, n)^{196}\text{Au}$	6.2 d	66.83(44)	$\text{k}\alpha 1 \text{ Pt}$	0.02	0.09	0.08	0.1		
	$^{197}\text{Au}(\gamma, n)^{196}\text{Au}$	6.2 d	356(88)	---	---	---	---	0.05	---	0.05	---		
Hg	$^{198}\text{Hg}(\gamma, n)^{197\text{m}}\text{Hg}$	23.8 h	134(34)	$^{198}\text{Hg}(\gamma, n)^{197}\text{Hg}$	64.1 h	68.81(36)	$\text{k}\alpha 1 \text{ Au}$	1	0.5	2	0.6		
Tl	$^{203}\text{Tl}(\gamma, n)^{202}\text{Tl}$	12.2 d	439(91) ^b	$^{203}\text{Tl}(\gamma, n)^{202}\text{Tl}$	12.2 d	70.82(42)	$\text{k}\alpha 1 \text{ Hg}$	0.4	0.4	0.4	0.4		
Pb	$^{204}\text{Pb}(\gamma, n)^{203}\text{Pb}$	52.1 h	279(81) ^b	$^{204}\text{Pb}(\gamma, n)^{203}\text{Pb}$	52.1 h	72.87(47)	$\text{k}\alpha 1 \text{ Tl}$	1	1	1	1		
			401(4)	---	---	---	---	30	---	30	---		
Bi	$^{209}\text{Bi}(\gamma, 3n)^{206}\text{Bi}$	6.24 d	803(99)	$^{209}\text{Bi}(\gamma, 3n)^{206}\text{Bi}$	6.24 d	74.97(65)	$\text{k}\alpha 1 \text{ Pb}$	100	90	100	90		
U	$^{238}\text{U}(\gamma, n)^{237}\text{U}$	6.75 d	208(23)	$^{238}\text{U}(\gamma, n)^{237}\text{U}$	6.75 d	59.6(36)	γ	0.02	0.005	0.02	0.005		