

DRŽAVNI ZAVOD ZA RADIOLOŠKU I NUKLEARNU SIGURNOST

1217

Na temelju članka 24. Zakona o radiološkoj i nuklearnoj sigurnosti (»Narodne novine«, br. 28/10) uz prethodno pribavljenu suglasnost ministra zdravlja, ravnatelj Državnog zavoda za radiološku i nuklearnu sigurnost donosi

PRAVILNIK O GRANICAMA OZRAČENJA

Članak 1.

Ovim se Pravilnikom utvrđuju granice izlaganja izloženih radnika, granice izlaganja osoba koje se obučavaju ili obrazuju za rad s izvorima ionizirajućih zračenja, granice izlaganja pojedinog stanovnika, granice izlaganja u posebnim okolnostima zbog provedbe intervencija u izvanrednom događaju te granice između područja nadgledanja i posebnog nadgledanja.

Članak 2.

Ovaj Pravilnik sadrži odredbe koje su u skladu sa sljedećim aktima Europske unije:

– Direktiva Vijeća br. 96/29/Euratom od 13. svibnja 1996. o utvrđivanju osnovnih sigurnosnih normi za zaštitu zdravlja radnika i stanovništva od opasnosti od ionizirajućeg zračenja (SL L 159, 29. 6. 1996.) – članak 1., članak 7. stavak 1., članak 9., članak 11. stavak 1. i stavak 2., članak 12., članak 13., članak 15., članak 16., članak 18., članak 39. i članak 52. stavak 1.,

– Direktiva Vijeća br. 97/43/Euratom od 30. lipnja 1997. o zdravstvenoj zaštiti pojedinaca od opasnosti od ionizirajućeg zračenja u odnosu na medicinska izlaganja, kojom se ukida Direktiva 84/466/Euratom (SL L 180, 9. 7. 1997.) – članak 4. stavak 4. točka (a).

Članak 3.

Pojedini izrazi u smislu ovoga Pravilnika imaju sljedeća značenja:

Akcijska razina je iznos doze ili koncentracije aktivnosti kod koje se mora obvezno započeti provedba intervencije.

Aktivnost (A) neke količine radionuklida u određenom energijskom stanju u određenom vremenskom razdoblju jest omjer dN i dt : $A=dN/dt$, gdje je dN očekivana vrijednost broja spontanijeh prijelaza u jezgrama atoma iz jednog stanja energije u drugo u vremenskom razdoblju dt . Jedinica aktivnosti je becquerel (Bq).

Apsorbirana doza D jest omjer energije dE i mase dm kojoj je prolazom zračenja ta energija pridjeljena, tj.

$$D = \frac{dE}{dm}.$$

Jedinica apsorbirane doze jest džul po kilogramu ($J\ kg^{-1}$), a zove se grej: $1\ Gy=1\ J/kg$.

Becquerel (Bq) jest naziv za jedinicu aktivnosti. Jedan becquerel jednak je jednom prijelazu (raspadu) u sekundi: $1\ Bq = 1\ s^{-1}$.

Efektivna doza E jest zbroj umnožaka ekvivalentne doze u tkivu T i odgovarajućeg težinskog koeficijenta T tkiva W_T , tj.:

$$E = \sum_T W_T \cdot H_T.$$

Težinski koeficijent tkiva vrste T, W_T je mjera različite osjetljivosti pojedinog tkiva na zračenje, a vrijednosti su prikazane u Tablici 2. koja je sastavni dio ovog Pravilnika. Jedinica efektivne doze je sievert (Sv).

Ekvivalentna doza u tkivu T od zračenja vrste R, $H_{T,R}$, jest umnožak srednje apsorbirane doze u tkivu T, D_T , i težinskog koeficijenta zračenja W_R , tj.

$$H_{T,R} = \sum_R D_{T,R} \cdot W_R$$

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$$H_{T,R} = D_T \cdot W_R.$$

Težinski koeficijent W_R za vrstu zračenja R je prikazan u Tablici 1. koja je sastavni dio ovog Pravilnika. Jedinica ekvivalentne doze je džul po kilogramu ($J\ kg^{-1}$), a zove se sievert (Sv).

Kolektivna efektivna doza S za pučanstvo jest:

$$S = \sum_i E_i \cdot N_i$$

gdje je E_i srednja efektivna doza u skupini osoba i, a N_i je broj osoba u toj skupini.

Kritična skupina ljudi jest skupina osoba koje primaju sličnu ili jednaku dozu koja je reprezentativna za pojedince koji primaju najveću efektivnu ili ekvivalentnu dozu od određenog načina izlaganja i od određenog izvora ionizirajućeg zračenja.

Očekivana efektivna doza jest:

$$E(\tau) = \sum_T W_T \cdot H_T(\tau),$$

gdje je $H_T(t)$ očekivana ekvivalentna doza u organu ili tkivu T pridjeljena kroz vrijeme t proteklo od trenutka unosa radionuklida.

Ako t nije određen, uzima se 50 godina za odrasle osobe, a 70 godina za unos radionuklida kod djece.

Očekivana ekvivalentna doza jest:

$$H_T(\tau) = \int_{t_0}^{t_0+\tau} H_T(t) \cdot dt,$$

gdje je t vrijeme proteklo od unosa radionuklida, a to je trenutak unosa radionuklida. $H_T(t)$ je jakost ekvivalentne doze u trenutku t u organu ili tkivu T. Ako t nije određen, uzima se da je 50 godina za odrasle osobe, a 70 godina za unos radionuklida kod djece.

Članak 4.

(1) Ozračenje osoba u kritičnoj skupini ljudi ne smije prijeći granice propisane ovim Pravilnikom, a pri tom zaštita od ionizirajućeg zračenja mora biti optimizirana tako da je ozračenje od bilo kojeg izvora ionizirajućeg zračenja, odnosno od svih izvora zračenja koji se koriste, svedeno ispod propisanih granica na toliko nisku razinu koliko je razumno moguće postići uvažavajući tehničke, gospodarske i socijalne čimbenike.

(2) Pojedina djelatnost s izvorima ionizirajućeg zračenja mora biti optimizirana tako da efektivna doza pojedinog stanovnika od te djelatnosti u godini dana ne bude veća od 0.3 mSv.

Članak 5.

(1) Efektivna doza pojedinog stanovnika u jednoj godini ne smije biti veća od, 1 mSv od svih izvora ionizirajućeg zračenja koji su uključeni u djelatnosti s izvorima ionizirajućeg zračenja.

(2) U posebnim okolnostima, efektivna doza pojedinog stanovnika u jednoj godini smije biti do 5 mSv u jednoj godini s tim da u pet uzastopnih godina prosječna efektivna doza ne smije biti veća od 1 mSv godišnje.

(3) Ekvivalentna doza za očne leće pojedinog stanovnika ne smije biti veća od 15 mSv u jednoj godini.

(4) Ekvivalentna doza za kožu pojedinog stanovnika ne smije biti veća od 50 mSv u jednoj godini, usrednjena preko 1 cm² površine bilo kojeg dijela kože, neovisno o površini koja je ozračena.

Članak 6.

(1) Efektivna doza izloženih radnika ne smije u normalnim uvjetima tijekom rada biti veća od 100 mSv u razdoblju od pet uzastopnih godina, uz uvjet da niti u jednoj godini petogodišnjeg razdoblja efektivna doza ne smije biti veća od 50 mSv.

(2) Ekvivalentna doza za očne leće izloženih radnika ne smije u normalnim uvjetima rada biti veća od 150 mSv u jednoj godini.

(3) Ekvivalentna doza za podlaktice, šake, stopala ili kožu izloženih radnika ne smije u normalnim uvjetima rada biti veća od 500 mSv u jednoj godini, usrednjena preko 1 cm² površine bilo kojeg dijela kože, neovisno o dijelu kože koji je ozračen.

Članak 7.

Ozračenje osoba mladih od 18 godina, ali starijih od 16 godina, koje se obučavaju ili obrazuju za rad s izvorima ionizirajućeg zračenja tijekom obučavanja ili obrazovanja ne smije biti veće od:

1. efektivna doza do 6 mSv u jednoj godini,
2. ekvivalentna doza za očne leće do 50 mSv u jednoj godini,
3. ekvivalentna doza za podlaktice, šake, gležnjeve, stopala i kožu, usrednjena preko 1 cm² površine bilo kojeg dijela kože, neovisno o površini koja je ozračena, do 150 mSv u jednoj godini,.

Članak 8.

Ozračenje osoba starijih od 18 godina koje se obučavaju ili obrazuju za rad s izvorima ionizirajućeg zračenja ne smije biti iznad granica propisanih u članku 6. ovoga Pravilnika.

Članak 9.

(1) Područje izloženosti dijeli se na područje nadgledanja i područje posebnog nadgledanja.

(2) Područje nadgledanja je područje izloženosti unutar kojeg postoji vjerojatnost da efektivna doza izloženog radnika u jednoj godini bude do 6 mSv.

(3) Područje posebnog nadgledanja je područje izloženosti unutar postoji vjerojatnost da efektivna doza izloženog radnika u jednoj godini bude iznad 6 mSv.

Članak 10.

(1) Ukupno ozračenje izraženo kao zbroj efektivne doze od vanjskog ozračenja u određenom razdoblju i očekivane efektivne doze od unutarnjeg ozračenja zbog unosa radionuklida u organizam u istom razdoblju ne smije prijeći granice ozračenja utvrđene ovim Pravilnikom.

(2) Procjena unutarnjeg ozračenja od radionuklida vrste »j« u jednoj godini temelji se na godišnjim granicama unošenja (I_{j,G}) radionuklida u organizam koje su određene sukladno očekivanoj efektivnoj dozi za razdoblje od 50 godina za odrasle osobe i za razdoblje od 70 godina za djecu.

Članak 11.

Stupanj ozračenja osobe određuje se na jedan od sljedećih načina:

– izračunavanjem ukupne efektivne doze E pomoću formule:

$$E = H_p(d) + \sum_j e(g)_{j,ing} I_{j,ing} + \sum_j e(g)_{j,inh} I_{j,inh}$$

gdje je:

$H_p(d)$ – osobni dozni ekvivalent vanjskog ozračenja u jednoj godini,

$e(g)_{j,ing}$ – očekivana efektivna doza po jedinici aktivnosti gutanjem unesenog radionuklida vrste »j« u tijelo osobe iz skupine starosne dobi »g«,

$e(g)_{j,inh}$ – očekivana efektivna doza po jedinici aktivnosti udisanjem unesenog radionuklida vrste »j« u tijelo osobe iz skupine starosne dobi »g«,

$I_{j,ing}$ – aktivnost gutanjem unesenog radionuklida vrste »j« u organizam u jednoj godini,

$I_{j,inh}$ – aktivnost udisanjem unesenog radionuklida vrste »j« u organizam u jednoj godini;

ili na temelju nejednadžbe:

$$\frac{H_p(d)}{GD} + \sum_j \frac{I_{j,ing}}{I_{j,ing,G}} + \sum_j \frac{I_{j,inh}}{I_{j,inh,G}} \leq 1$$

gdje je:

GD – godišnja granica efektivne doze za kritičnu skupinu osoba;

$I_{j,ing,G}$ – godišnja granica unošenja (GGU) radionuklida vrste »j« u organizam gutanjem;

$I_{j,inh,G}$ – godišnja granica unošenja (GGU) radionuklida vrste »j« u organizam udisanjem;

Za radionuklid vrste »j« godišnja granica unošenja ($I_{j,G}$) izražava se izrazom:

$$I_{j,G} = \frac{GD}{e_j}.$$

Članak 12.

(1) Očekivane efektivne doze po jedinici aktivnosti za gutanje $e(j),ing$, odnosno za udisanje $e(j),inh$, za pojedine radionuklide sadržane su u Tablici 3. koja je sastavni dio ovoga Pravilnika za izložene radnike, a za ostale osobe u Tablici 4. i Tablici 5. koje su sastavni dio ovoga Pravilnika.

(2) Očekivane efektivne doze po jedinici aktivnosti za gutanje $e(j),ing$, odnosno za udisanje $e(j),inh$, za topljive i reaktivne plinove i pare sadržane su u Tablici 6. koja je sastavni dio ovoga Pravilnika za izložene radnike i za ostale osobe starije od 18 godina.

(3) U Tablicama iz stavka 1. i stavka 2. ovoga članka sadržani su i koeficijenti prijenosa za radionuklide: f_1 koji predstavljaju razmjernost prijenosa unesene aktivnosti iz želuca u tjelesne tekućine kod unosa gutanjem, odnosno razmjernost prijenosa unesene aktivnosti u probavni sustav iz pluća kod unosa radionuklida udisanjem. Vrijednosti koeficijenta f_1 za gutanje i udisanje radionuklida vezanih u spojevima sadržani su u Tablicama 7a. i 7b. koje su sastavni dio ovoga Pravilnika.

Članak 13.

Ozračenje osoba koje svjesno i dragovoljno pridržavaju i pomažu pacijentima tijekom dijagnostičkih pregleda ili postupaka u medicini i dentalnoj medicini uporabom izvora ionizirajućeg zračenja i osoba koje dragovoljno sudjeluju u medicinskim i biomedicinskim, dijagnostičkim ili terapijskim, istraživačkim programima koji uključuju uporabu izvora ionizirajućeg zračenja ne smije biti veće od 5 mSv u godini dana.

Članak 14.

(1) U posebnim uvjetima, isključujući izvanredni događaj, ravnatelj Državnog zavoda za radiološku i nuklearnu sigurnost, ako to posebni proces rada zahtjeva, prema prosudbi za svaki pojedini slučaj, može za izloženog radnika odobriti povećanje granica ozračenja iz članka 6. ovog Pravilnika pod sljedećim uvjetima:

1. Nositelj odobrenja za obavljanje djelatnosti s izvorom ionizirajućeg zračenja obavezan je podnijeti zahtjev za odobravanjem povećanja granica izlaganja radnika iz članka 6. ovog Pravilnika. Zahtjevu se prilaže:

- obrazloženje potrebe za povećanjem granica izlaganja iz članka 6. ovog Pravilnika,
- mišljenje ovlaštenog stručnog tehničkog servisa o očekivanom ozračenju,
- pisanu izjavu izloženog radnika za kojeg se podnosi zahtjev za odobravanjem povećanja granica izlaganja iz članka 6. ovog Pravilnika da je potpuno upoznat s okolnostima i rizikom ozračenja iznad granica iz članka 6. ovog Pravilnika, koju supotpisuje i osoba odgovorna za zaštitu od ionizirajućeg zračenja,

– potvrdu da je izloženi radnik za kojeg se podnosi zahtjev za odobravanjem povećanja granica izlaganja iz članka 6. ovog Pravilnika obavio izvanredni zdravstveni pregled sukladno propisu o zdravstvenim pregledima izloženih radnika i ocjenu zdravstvene sposobnosti.

2. Efektivna doza izloženog radnika za kojeg se podnosi zahtjev za odobravanjem povećanja granica ozračenja iz članka 6. ovog Pravilnika ne smije prijeći 50 mSv u bilo kojoj godini razdoblja u kojem se planira povećanje granica ozračenja iz članka 6. ovog Pravilnika.

3. Razdoblje u kojem se planira povećanje granica ozračenja iz članka 6. ovog Pravilnika ne smije biti dulje od uzastopnih pet godina i ne smije se produljivati za iste izložene radnike.

(2) Ako efektivna doza izloženog radnika za kojeg je odobreno povećanje granica ozračenja iz članka 6. ovog Pravilnika dostigne 100 mSv, potrebno je provesti dodatno ispitivanje uvjeta rada s izvorima ionizirajućeg zračenja i ponoviti izvanredni zdravstveni pregled izloženih radnika koji su primili takve doze.

(3) Premašena efektivna doza iz stavka 2. ovoga članka ne znači nužno razlog poslodavcu izloženog radnika iz stavka 2. ovoga članka za njegovo premještanje na drugo radno mjesto, bez pristanka izloženog radnika iz stavka 2. ovoga članka.

(4) Osobne doze izloženog radnika za kojeg je odobreno povećanje granica ozračenja iz članka 6. ovog Pravilnika primljene tijekom razdoblja iz stavka 1. točke 3. ovoga članka moraju se kod poslodavca i u Državnom zavodu za radiološku i nuklearnu sigurnost voditi u posebnoj evidenciji za svakog izloženog radnika.

(5) Izloženi radnici za koje je dano odobrenje za povećanje granica ozračenja iz članka 6. ovoga Pravilnika moraju biti dodatno opskrbljeni dozimetrima za izravno očitavanje primljenih doza.

(6) Odredbe ovoga članka ne primjenjuju se na osobe iz članka 7. ovog Pravilnika, studente, pripravnike, specijalizante, trudnice i žene koje doje, ako mogu biti kontaminirane.

Članak 15.

(1) Prekoračenje granice efektivne doze iz članka 6. ovoga Pravilnika tijekom intervencija radi planiranog i žurnog uklanjanja ili ublažavanja posljedica izvanrednog događaja dopušteno je samo radi spašavanja života ljudi, sprečavanja nesreća s velikim materijalnim i društvenim posljedicama ili prekomjernog ozračenja velikog broja ljudi.

(2) Intervencije prvenstveno provode članovi unaprijed određenih stručnih timova koji su obučeni i pripremljeni za provedbu intervencija te su pripremljeni i izvješćeni o mogućim opasnostima. Samo u slučaju kad je poduzimanje određenih interventivnih mjera neodgodivo i žurno, ovisno o okolnostima, intervencijske mjere mogu poduzeti i osobe koje se zateknu na mjestu izvanrednog događaja.

(3) Članovi intervencijskog tima ili druge osobe koje sudjeluju u intervenciji ne smiju biti ozračeni s više od dvostruke godišnje efektivne doze iz članka 6. ovoga Pravilnika uz iznimku spašavanja života ljudi kad je dopuštena veća efektivna doza, ali ne veća od deseterostruke godišnje granice iz članka 6. ovoga Pravilnika.

(4) Ako postoji sumnja o unosu radionuklida u organizam iznad godišnjih granica unošenja, obavezno je za svakog izloženog pojedinca izmjeriti ili procijeniti aktivnosti u tijelo unesenih radionuklida.

Članak 16.

(1) Akcijske razine za početak intervencije radi akutnog ozračenja organa ili tkiva prikazane su u Tablici 8. koja je sastavni dio ovoga Pravilnika.

(2) Akcijske razine za početak intervencije radi kroničnog ozračivanja organa ili tkiva prikazane su u Tablici 9. koja je sastavni dio ovoga Pravilnika.

(3) Akcijske razine izražene koncentracijom aktivnosti određenih radionuklida za hranu i vodu za piće prikazane su u Tablici 10. koja je sastavni dio ovoga Pravilnika

Članak 17.

(1) Intervencijska razina za zadržavanje ljudi u kućama ili zatvorenim prostorima poslije izvanrednog događaja je efektivna doza u iznosu od 10 mSv za razdoblje do dva dana.

(2) Vlada Republike Hrvatske ili tijelo koje odredi Vlada Republike Hrvatske za provedbu intervencija u slučaju izvanrednog događaja može odrediti i nižu intervencijsku razinu u kraćem razdoblju u kojem će se odrediti zadržavanje ljudi u kućama ili zatvorenim prostorima u svrhu lakše provedbe planiranih potrebnih mjera.

Članak 18.

(1) Intervencijska razina za privremenu evakuaciju pučanstva poslije izvanrednog događaja je efektivna doza u iznosu od 50 mSv u razdoblju do jednog tjedna.

(2) Vlada Republike Hrvatske ili tijelo određeno od Vlade Republike Hrvatske za provedbu intervencija u slučaju izvanrednog događaja može odrediti evakuaciju i kod nižeg iznosa efektivne doze, ako se odnosi na manji broj ljudi i može se obaviti u kratkom razdoblju.

(3) Iznimno, Vlada Republike Hrvatske ili tijelo određeno od Vlade za provedbu intervencija u slučaju izvanrednog događaja može odrediti evakuaciju i kod višeg iznosa efektivne doze, ako se obavlja u složenim uvjetima, kad je uključen veliki broj ljudi ili je otežan njihov prijevoz.

Članak 19.

Intervencijska razina za provedbu zaštite od posljedica izvanrednog događaja uzimanjem pripravka stabilnog joda (jodna profilaksa) je očekivana apsorbirana doza za štitnu žlijezdu u iznosu od 100 mGy koju mogu uzrokovati radionuklidi joda.

Članak 20.

(1) Intervencijska razina za početak privremenog preseljavanja ljudi poslije izvanrednog događaja je efektivna doza u iznosu od 30 mSv u razdoblju od jednog mjeseca.

(2) Intervencijska razina za završetak privremenog preseljenja je efektivna doza od 10 mSv u razdoblju od jednog mjeseca. Ako se procijenjena efektivna doza tijekom jednog mjeseca ne smanji ispod te razine, odredit će se trajno preseljavanje.

(3) Trajno preseljavanje odredit će se ako se procijeni da je očekivana životna efektivna doza iznad 1 Sv.

Članak 21.

(1) Vrijednosti doza koje se uspoređuju s intervencijskim razinama su ukupne efektivne doze bez obzira na način ozračenja ljudi ionizirajućem zračenju koje se mogu spriječiti samo odgovarajućim mjerama.

(2) U ukupne efektivne doze iz stavka 1. ovoga članka nisu uključene doze koje potječu od radionuklida iz onečišćene hrane ili vode za piće.

Članak 22.

(1) Srednje godišnje koncentracije aktivnosti ^{222}Rn u zraku u kućama kod kojih je opravdano započeti poduzimanje protumjera

su 400 Bqm^{-3} za stare zgrade i 200 Bqm^{-3} za novogradnju, ovisno o društvenim i gospodarskim čimbenicima.

(2) Ako je srednja godišnja koncentracija aktivnosti ^{222}Rn u zraku na radnim mjestima iznad 1000 Bq m^{-3} , preporučuje se poduzimanje intervencijskih mjera.

(3) Za radonove i toronove potomke primjenjuju se sljedeći konvencionalni pretvorbeni koeficijenti, efektivna doza po jedinici potencijalnog izlaganja alfa energiji (Sv po J.h.m^{-3}):

Radon u kućama: 1,1;

Radon na radnom mjestu: 1,4;

Toron na radnom mjestu: 0,5.

Potencijalna alfa energija (radonovih i toronovih potomaka): ukupna alfa energija koja se naposljetku emitira za vrijeme raspada radonovih i toronovih potomaka lancu raspada sve do, ali ne uključujući, ^{210}Pb za potomke ^{222}Rn te do stabilnog ^{208}Pb za potomke ^{220}Rn . Jedinica je J (džul). Za ozračenje određenom koncentracijom u određenom vremenu jedinica je Jhm^{-3} .

PRIJELAZNE I ZAVRŠNE ODREDBE

Članak 23.

Danom stupanja na snagu ovoga Pravilnika prestaje važiti Pravilnik o granicama izlaganja ionizirajućem zračenju te o uvjetima izlaganja u posebnim okolnostima i za provedbe intervencija u izvanrednom događaju (»Narodne novine«, br. 125/06).

Članak 24.

Ovaj Pravilnik stupa na snagu osmoga dana od dana objave u »Narodnim novinama«.

Klasa: 011-01/13-02/4

Urbroj: 542-01-13-5

Zagreb, 29. travnja 2013.

Ranatelj

doc. dr. sc. Dragan Kubelka, v. r.

Tablica 1. TEŽINSKI KOEFICIJENTI ZRAČENJA w_R

Vrsta i energije zračenja	Težinski koeficijenti zračenja w_R
Fotoni, svih energija	1
Elektroni i muoni, svih energija	1
Neutroni, energije < 10 keV	5
10 keV do 100 keV	10
> 100 keV do 2 MeV	20
> 2 MeV do 20 MeV	10
> 20 MeV	5
Protoni, osim raspršenih, energije > 2 MeV	5
Alfa čestice, fisijski fragmenti, teške jezgre	20

Tablica 2. TEŽINSKI KOEFICIJENTI TKIVA w_T

Tkivo ili organ	Težinski koeficijenti tkiva w_T
Gonade	0,20
Koštana srž (crvena)	0,12
Debelocrijevo	0,12
Pluća	0,12

Želudac	0,12
Mjehur	0,05
Grudi	0,05
Jetra	0,05
Jednjak	0,05
Štitna žlijezda	0,05
Koža	0,01

Površina kosti	0,01
Ostatak*, **	0,05

* Ako tkivo koje je navedeno kao ostatak prima najveće ekvivalentne doze, koristi se težinski koeficijent tkiva od 0,025 za to tkivo ili organ, a 0,025 za ostali dio ostalih tkiva.

**Ostatak čine sljedeća tkiva: mišići, maternica, nadbubrežne žlijezde, slezena, mozak, gušterača, bubrezi, tanko crijevo, timus.

Tablica 3. OČEKIVANJE EFEKTIVNE DOZE PO JEDINICI UNESENE AKTIVNOSTI e(g) UDISANJEM I GUTANJEM(Sv Bg⁻¹) ZA RADNIKE

Radionuklid	Fizikalno vrijeme poluraspada	Udisanje				Gutanje	
		Vrsta	f1	e(g) _{1 μm}	e(g) _{5 μm}	f1	e(g)
Vodik							
Tricirana voda	12.3 a					1.000	1.8 E-11
Organski vodik	12.3 a					1.000	4.2 E-11
Berilij							
Be-7	53.3 d	M	0.005	4.8 E-11	4.3 E-11	0.005	2.8 E-11
		S	0.005	5.2 E-11	4.6 E-11		
Be-10	1.60 E+06 a	M	0.005	9.1 E-09	6.7 E-09	0.005	1.1 E-09
		S	0.005	3.2 E-08	1.9 E-08		
Ugljik							
C-11	0.340 h					1.000	2.4 E-11
C-14	5.73E+03 a					1.000	5.8 E-10
Fluor							
F-18	1.83 h	F	1.000	3.0 E-11	5.4 E-11	1.000	4.9 E-11
		M	1.000	5.7 E-11	8.9 E-11		
		S	1.000	6.0 E-11	9.3 E-11		
Natrij							
Na-22	2.60 a	F	1.000	1.3 E-09	2.0 E-09	1.000	3.2 E-09
Na-24	15.0 h	F	1.000	2.9 E-10	5.3 E-10	1.000	4.3 E-10
Magnezij							
Ma-28	20.9 h	F	0.500	6.4 E-10	1.1 E-09	0.500	2.2 E-09
		M	0.500	1.2 E-09	1.7 E-09		
Aluminij							
Al-26	7.16E+05 a	F	0.010	1.1 E-08	1.4 E-08	0.010	3.5 E-09
		M	0.010	1.8 E-08	1.2 E-08		
Silicij							
Si-31	2.62 h	F	0.010	2.9 E-11	5.1 E-11	0.010	1.6 E-10
		M	0.010	7.5 E-11	1.1 E-10		
		S	0.010	8.0 E-11	1.1 E-10		
Si-32	4.50E+02 a	F	0.010	3.2 E-09	3.7 E-09	0.010	5.6 E-10
		M	0.010	1.5 E-08	9.6 E-09		
		S	0.010	1.1 E-07	5.5 E-08		

Fosfor							
P-32	14.3 d	F	0.800	8.0 E-10	1.1 E-09	0.800	2.4 E-09
		M	0.800	3.2 E-09	2.9 E-09		
P-33	25.4 d	F	0.800	9.6 E-11	1.4 E-10	0.800	2.4 E-10
		M	0.800	1.4 E-09	1.3 E-09		
Sumpor							
S-35 (anorganski)	87.4 d	F	0.800	5.3 E-11	8.0 E-11	0.800	1.4 E-10
		M	0.800	1.3 E-09	1.1 E-09	0.100	1.9 E-10
S-35 (organski)	87.4 d					1.000	7.7 E-10
Klor							
Cl-36	3.01E+05 a	F	1.000	3.4 E-10	4.9 E-10	1.000	9.3 E-10
		M	1.000	6.9 E-09	5.1 E-09		
Cl-38	0.620 h	F	1.000	2.7 E-11	4.6 E-11	1.000	1.2 E-10
		M	1.000	4.7 E-11	7.3 E-11		
Cl-39	0.927 h	F	1.000	2.7 E-11	4.8 E-11	1.000	8.5 E-11
		M	1.000	4.8 E-11	7.6 E-11		
Kalij							
K-40	1.28E+09 a	F	1.000	2.1 E-09	3.0 E-09	1.000	6.2 E-09
K-42	12.4 h	F	1.000	1.3 E-10	2.0 E-10	1.000	4.3 E-10
K-43	22.6 h	F	1.000	1.5 E-10	2.6 E-10	1.000	2.5 E-10
K-44	0.369 h	F	1.000	2.1 E-11	3.7 E-11	1.000	8.4 E-11
K-45	0.333 h	F	1.000	1.6 E-11	2.8 E-11	1.000	5.4 E-11
Kalcij							
Ca-41	1.40E+05 a	M	0.300	1.7 E-10	1.9 E-10	0.300	2.9 E-10
Ca-45	163 d	M	0.300	2.7 E-09	2.3 E-09	0.300	7.6 E-10
Ca-47	4.53 d	M	0.300	1.8 E-09	2.1 E-09	0.300	1.6 E-09
Skandij							
Sc-43	3.89 h	S	1.0 E-04	1.2 E-10	1.8 E-10	1.0 E-04	1.9 E-10
Sc-44	3.93 h	S	1.0 E-04	1.9 E-10	3.0 E-10	1.0 E-04	3.5 E-10
Sc-44m	2.44 d	S	1.0 E-04	1.5 E-09	2.0 E-09	1.0 E-04	2.4 E-09
Sc-46	83.8 d	S	1.0 E-04	6.4 E-09	4.8 E-09	1.0 E-04	1.5 E-09
Sc-47	3.35 d	S	1.0 E-04	7.0 E-10	7.3 E-10	1.0 E-04	5.4 E-10
Sc-48	1.82 d	S	1.0 E-04	1.1 E-09	1.6 E-09	1.0 E-04	1.7 E-09
Sc-49	0.956 h	S	1.0 E-04	4.1 E-11	6.1 E-11	1.0 E-04	8.2 E-11
Titan							
Ti-44	47.3 a	F	0.010	6.1 E-08	7.2 E-08	0.010	5.8 E-09
		M	0.010	4.0 E-08	2.7 E-08		
		S	0.010	1.2 E-07	6.2 E-08		
Ti-45	3.08 h	F	0.010	4.6 E-11	8.3 E-11	0.010	1.5 E-10
		M	0.010	9.1 E-11	1.4 E-10		
		S	0.010	9.6 E-11	1.5 E-10		
Vanadij							
V-47	0.543 h	F	0.010	1.9 E-11	3.2 E-11	0.010	6.3 E-11

V-48	16.2 d	M	0.010	3.1 E-11	5.0 E-11	0.010	2.0 E-09
		F	0.010	1.1 E-09	1.7 E-09		
		M	0.010	2.3 E-09	2.7 E-09		
V-49	330 d	F	0.010	2.1 E-11	2.6 E-11	0.010	1.8 E-11
		M	0.010	3.2 E-11	2.3 E-11		
Krom							
Cr-48	23.0 h	F	0.100	1.0 E-10	1.7 E-10	0.100	2.0 E-10
		M	0.100	2.0 E-10	2.3 E-10	0.010	2.0 E-10
		S	0.100	2.2 E-10	2.5 E-10		
Cr-49	0.702 h	F	0.100	2.0 E-11	3.5 E-11	0.100	6.1 E-11
		M	0.100	3.5 E-11	5.6 E-11	0.010	6.1 E-11
		S	0.100	3.7 E-11	5.9 E-11		
Cr-51	27.7 d	F	0.100	2.1 E-11	3.0 E-11	0.100	3.8 E-11
		M	0.100	3.1 E-11	3.4 E-11	0.010	3.7 E-11
		S	0.100	3.6 E-11	3.6 E-11		
Mangan							
Mn-51	0.770 h	F	0.100	2.4 E-11	4.2 E-11	0.100	9.3 E-11
		M	0.100	4.3 E-11	6.8 E-11		
Mn-52	5.59 d	F	0.100	9.9 E-10	1.6 E-09	0.100	1.8 E-09
		M	0.100	1.4 E-09	1.8 E-09		
Mn-52m	0.352 h	F	0.100	2.0 E-11	3.5 E-11	0.100	6.9 E-11
		M	0.100	3.0 E-11	5.0 E-11		
Mn-53	3.70E+06 a	F	0.100	2.9 E-11	3.6 E-11	0.100	3.0 E-11
		M	0.100	5.2 E-11	3.6 E-11		
Mn-54	312 d	F	0.100	8.7 E-10	1.1 E-09	0.100	7.1 E-10
		M	0.100	1.5 E-09	1.2 E-09		
Mn-56	2.58 h	F	0.100	6.9 E-11	1.2 E-10	0.100	2.5 E-10
		M	0.100	1.3 E-10	2.0 E-10		
Željezo							
Fe-52	8.28 h	F	0.100	4.1 E-10	6.9 E-10	0.100	1.4 E-09
		M	0.100	6.3 E-10	9.5 E-10		
Fe-55	2.70 a	F	0.100	7.7 E-10	9.2 E-10	0.100	3.3 E-10
		M	0.100	3.7 E-10	3.3 E-10		
Fe-59	44.5 d	F	0.100	2.2 E-09	3.0 E-09	0.100	1.8 E-09
		M	0.100	3.5 E-09	3.2 E-09		
Fe-60	1.00E+05 a	F	0.100	2.8 E-07	3.3 E-07	0.100	1.1 E-07
		M	0.100	1.3 E-07	1.2 E-07		
Kobalt							
Co-55	17.5 h	M	0.100	5.1 E-10	7.8 E-10	0.100	1.0 E-09
		S	0.050	5.5 E-10	8.3 E-10		
Co-56	78.7 d	M	0.100	4.6 E-09	4.0 E-09	0.100	2.5 E-09
		S	0.050	6.3 E-09	4.9 E-09		
Co-57	271 d	M	0.100	5.2 E-10	3.9 E-10	0.100	2.1 E-10
		S	0.050	9.4 E-10	6.0 E-10		
Co-58	70.8 d	M	0.100	1.5 E-09	1.4 E-09	0.100	7.4 E-10
		S	0.050	2.0 E-09	1.7 E-09		

Co-58m	9.15 h	M	0.100	1.3 E-11	1.5 E-11	0.100	2.4 E-11
		S	0.050	1.6 E-11	1.7 E-11	0.050	2.4 E-11
Co-60	5.27 a	M	0.100	9.6 E-09	7.1 E-09	0.100	3.4 E-09
		S	0.050	2.9 E-08	1.7 E-08	0.050	2.5 E-09
Co-60m	0.174 h	M	0.100	1.1 E-12	1.2 E-12	0.100	1.7 E-12
		S	0.050	1.3 E-12	1.2 E-12	0.050	1.7 E-12
Co-61	1.65 h	M	0.100	4.8 E-11	7.1 E-11	0.100	7.4 E-11
		S	0.050	5.1 E-11	7.5 E-11	0.050	7.4 E-11
Co-62m	0.232 h	M	0.100	2.1 E-11	3.6 E-11	0.100	4.7 E-11
		S	0.050	2.2 E-11	3.7 E-11	0.050	4.7 E-11
Nikal							
Ni-56	6.10 d	F	0.050	5.1 E-10	7.9 E-10	0.050	8.6 E-10
		M	0.050	8.6 E-10	9.6 E-10		
Ni-57	1.50 d	F	0.050	2.8 E-10	5.0 E-10	0.050	8.7 E-10
		M	0.050	5.1 E-10	7.6 E-10		
Ni-59	7.50E+04 a	F	0.050	1.8 E-10	2.2 E-10	0.050	6.3 E-11
		M	0.050	1.3 E-10	9.4 E-11		
Ni-63	96.0 a	F	0.050	4.4 E-10	5.2 E-10	0.050	1.5 E-10
		M	0.050	4.4 E-10	3.1 E-10		
Ni-65	2.52 h	F	0.050	4.4 E-11	7.5 E-11	0.050	1.8 E-10
		M	0.050	8.7 E-11	1.3 E-10		
Ni-66	2.27 d	F	0.050	4.5 E-10	7.6 E-10	0.050	3.0 E-09
		M	0.050	1.6 E-09	1.9 E-09		
Bakar							
Cu-60	0.387 h	F	0.500	2.4 E-11	4.4 E-11	0.500	7.0 E-11
		M	0.500	3.5 E-11	6.0 E-11		
		S	0.500	3.6 E-11	6.2 E-11		
Cu-61	3.41 h	F	0.500	4.0 E-11	7.3 E-11	0.500	1.2 E-10
		M	0.500	7.6 E-11	1.2 E-10		
		S	0.500	8.0 E-11	1.2 E-10		
Cu-64	12.7 h	F	0.500	3.8 E-11	6.8 E-11	0.500	1.2 E-10
		M	0.500	1.1 E-10	1.5 E-10		
		S	0.500	1.2 E-10	1.5 E-10		
Cu-67	2.58 d	F	0.500	1.1 E-10	1.8 E-10	0.500	3.4 E-10
		M	0.500	5.2 E-10	5.3 E-10		
		S	0.500	5.8 E-10	5.8 E-10		
Cink							
Zn-62	9.26 h	S	0.500	4.7 E-10	6.6 E-10	0.500	9.4 E-10
Zn-63	0.635 h	S	0.500	3.8 E-11	6.1 E-11	0.500	7.9 E-11
Zn-65	244 d	S	0.500	2.9 E-09	2.8 E-09	0.500	3.9 E-09
Zn-69	0.950 h	S	0.500	2.8 E-11	4.3 E-11	0.500	3.1 E-11
Zn-69m	13.8 h	S	0.500	2.6 E-10	3.3 E-10	0.500	3.3 E-10
Zn-71m	3.92 h	S	0.500	1.6 E-10	2.4 E-10	0.500	2.4 E-10
Zn-72	1.94 d	S	0.500	1.2 E-09	1.5 E-09	0.500	1.4 E-09
Galij							
Ga-65	0.253 h	F	0.001	1.2 E-11	2.0 E-11	0.001	3.7 E-11
		M	0.001	1.8 E-11	2.9 E-11		
Ga-66	9.40 h	F	0.001	2.7 E-10	4.7 E-10	0.001	1.2 E-09

Ga-67	3.26 d	M	0.001	4.6 E-10	7.1 E-10	0.001	1.9 E-10
		F	0.001	6.8 E-11	1.1 E-10		
Ga-68	1.13 h	M	0.001	2.3 E-10	2.8 E-10	0.001	1.0 E-10
		F	0.001	2.8 E-11	4.9 E-11		
Ga-70	0.353 h	M	0.001	5.1 E-11	8.1 E-11	0.001	3.1 E-11
		F	0.001	9.3 E-12	1.6 E-11		
Ga-72	14.1 h	M	0.001	1.6 E-11	2.6 E-11	0.001	1.1 E-09
		F	0.001	3.1 E-10	5.6 E-10		
Ga-73	4.91 h	M	0.001	5.5 E-10	8.4 E-10	0.001	2.6 E-10
		F	0.001	5.8 E-11	1.0 E-10		
		M	0.001	1.5 E-10	2.0 E-10		
Germanij							
Ge-66	2.27 h	F	1.000	5.7 E-11	9.9 E-11	1.000	1.0 E-10
		M	1.000	9.2 E-11	1.3 E-10		
Ge-67	0.312 h	F	1.000	1.6 E-11	2.8 E-11	1.000	6.5 E-11
		M	1.000	2.6 E-11	4.2 E-11		
Ge-68	288 d	F	1.000	5.4 E-10	8.3 E-10	1.000	1.3 E-09
		M	1.000	1.3 E-08	7.9 E-09		
Ge-69	1.63 d	F	1.000	1.4 E-10	2.5 E-10	1.000	2.4 E-10
		M	1.000	2.9 E-10	3.7 E-10		
Ge-71	11.8 d	F	1.000	5.0 E-12	7.8 E-12	1.000	1.2 E-11
		M	1.000	1.0 E-11	1.1 E-11		
Ge-75	1.38 h	F	1.000	1.6 E-11	2.7 E-11	1.000	4.6 E-11
		M	1.000	3.7 E-11	5.4 E-11		
Ge-77	11.3 h	F	1.000	1.5 E-10	2.5 E-10	1.000	3.3 E-10
		M	1.000	3.6 E-10	4.5 E-10		
Ge-78	1.45 h	F	1.000	4.8 E-11	8.1 E-11	1.000	1.2 E-10
		M	1.000	9.7 E-11	1.4 E-10		
Arsen							
As-69	0.253 h	M	0.500	2.2 E-11	3.5 E-11	0.500	5.7 E-11
As-70	0.876 h	M	0.500	7.2 E-11	1.2 E-10	0.500	1.3 E-10
As-71	2.70 d	M	0.500	4.0 E-10	5.0 E-10	0.500	4.6 E-10
As-72	1.08 d	M	0.500	9.2 E-10	1.3 E-09	0.500	1.8 E-09
As-73	80.3 d	M	0.500	9.3 E-10	6.5 E-10	0.500	2.6 E-10
As-74	17.8 d	M	0.500	2.1 E-09	1.8 E-09	0.500	1.3 E-09
As-76	1.10 d	M	0.500	7.4 E-10	9.2 E-10	0.500	1.6 E-09
As-77	1.62 d	M	0.500	3.8 E-10	4.2 E-10	0.500	4.0 E-10
As-78	1.51 h	M	0.500	9.2 E-11	1.4 E-10	0.500	2.1 E-10
Selen							
Se-70	0.683 h	F	0.800	4.5 E-11	8.2 E-11	0.800	1.2 E-10
		M	0.800	7.3 E-11	1.2 E-10		
Se-73	7.15 h	F	0.800	8.6 E-11	1.5 E-10	0.800	2.1 E-10
		M	0.800	1.6 E-10	2.4 E-10		
Se-73m	0.650 h	F	0.800	9.9 E-12	1.7 E-11	0.800	2.8 E-11
		M	0.800	1.8 E-11	2.7 E-11		
Se-75	120 d	F	0.800	1.0 E-09	1.4 E-09	0.800	2.6 E-09
		M	0.800	1.4 E-09	1.7 E-09		
Se-79	6.50E+04 a	F	0.800	1.2 E-09	1.6 E-09	0.800	2.9 E-09

Se-81	0.308 h	M	0.800	2.9 E-09	3.1 E-09	0.050	3.9 E-10
		F	0.800	8.6 E-12	1.4 E-11	0.800	2.7 E-11
Se-81m	0.954 h	M	0.800	1.5 E-11	2.4 E-11	0.050	2.7 E-11
		F	0.800	1.7 E-11	3.0 E-11	0.800	5.3 E-11
Se-83	0.375 h	M	0.800	4.7 E-11	6.8 E-11	0.050	5.9 E-11
		F	0.800	1.9 E-11	3.4 E-11	0.800	4.7 E-11
		M	0.800	3.3 E-11	5.3 E-11	0.050	5.1 E-11
Brom							
Br-74	0.422 h	F	1.000	2.8 E-11	5.0 E-11	1.000	8.4 E-11
		M	1.000	4.1 E-11	6.8 E-11		
Br-74m	0.691 h	F	1.000	4.2 E-11	7.5 E-11	1.000	1.4 E-10
		M	1.000	6.5 E-11	1.1 E-10		
Br-75	1.63 h	F	1.000	3.1 E-11	5.6 E-11	1.000	7.9 E-11
		M	1.000	5.5 E-11	8.5 E-11		
Br-76	16.2 h	F	1.000	2.6 E-10	4.5 E-10	1.000	4.6 E-10
		M	1.000	4.2 E-10	5.8 E-10		
Br-77	2.33 d	F	1.000	6.7 E-11	1.2 E-10	1.000	9.6 E-11
		M	1.000	8.7 E-11	1.3 E-10		
Br-80	0.290 h	F	1.000	6.3 E-12	1.1 E-11	1.000	3.1 E-11
		M	1.000	1.0 E-11	1.7 E-11		
Br-80m	4.42 h	F	1.000	3.5 E-11	5.8 E-11	1.000	1.1 E-10
		M	1.000	7.6 E-11	1.0 E-10		
Br-82	1.47 d	F	1.000	3.7 E-10	6.4 E-10	1.000	5.4 E-10
		M	1.000	6.4 E-10	8.8 E-10		
Br-83	2.39 h	F	1.000	1.7 E-11	2.9 E-11	1.000	4.3 E-11
		M	1.000	4.8 E-11	6.7 E-11		
Br-84	0.530 h	F	1.000	2.3 E-11	4.0 E-11	1.000	8.8 E-11
		M	1.000	3.9 E-11	6.2 E-11		
Rubidij							
Rb-79	0.382 h	F	1.000	1.7 E-11	3.0 E-11	1.000	5.0 E-11
Rb-81	4.58 h	F	1.000	3.7 E-11	6.8 E-11	1.000	5.4 E-11
Rb-81m	0.533 h	F	1.000	7.3 E-12	1.3 E-11	1.000	9.7 E-12
Rb-82m	6.20 h	F	1.000	1.2 E-10	2.2 E-10	1.000	1.3 E-10
Rb-83	86.2 d	F	1.000	7.1 E-10	1.0 E-09	1.000	1.9 E-09
Rb-84	32.8 d	F	1.000	1.1 E-09	1.5 E-09	1.000	2.8 E-09
Rb-86	18.6 d	F	1.000	9.6 E-10	1.3 E-09	1.000	2.8 E-09
Rb-87	4.70E+10 a	F	1.000	5.1 E-10	7.6 E-10	1.000	1.5 E-09
Rb-88	0.297 h	F	1.000	1.7 E-11	2.8 E-11	1.000	9.0 E-11
Rb-89	0.253 h	F	1.000	1.4 E-11	2.5 E-11	1.000	4.7 E-11
Stroncij							
Sr-80	1.67 h	F	0.300	7.6 E-11	1.3 E-10	0.300	3.4 E-10
		S	0.010	1.4 E-10	2.1 E-10	0.010	3.5 E-10
Sr-81	0.425 h	F	0.300	2.2 E-11	3.9 E-11	0.300	7.7 E-11
		S	0.010	3.8 E-11	6.1 E-11	0.010	7.8 E-11
Sr-82	25.0 d	F	0.300	2.2 E-09	3.3 E-09	0.300	6.1 E-09
		S	0.010	1.0 E-08	7.7 E-09	0.010	6.0 E-09
Sr-83	1.35 d	F	0.300	1.7 E-10	3.0 E-10	0.300	4.9 E-10
		S	0.010	3.4 E-10	4.9 E-10	0.010	5.8 E-10

Sr-85	64.8 d	F	0.300	3.9 E-10	5.6 E-10	0.300	5.6 E-10
		S	0.010	7.7 E-10	6.4 E-10	0.010	3.3 E-10
Sr-85m	1.16 h	F	0.300	3.1 E-12	5.6 E-12	0.300	6.1 E-12
		S	0.010	4.5 E-12	7.4 E-12	0.010	6.1 E-12
Sr-87m	2.80 h	F	0.300	1.2 E-11	2.2 E-11	0.300	3.0 E-11
		S	0.010	2.2 E-11	3.5 E-11	0.010	3.3 E-11
Sr-89	50.5 d	F	0.300	1.0 E-09	1.4 E-09	0.300	2.6 E-09
		S	0.010	7.5 E-09	5.6 E-09	0.010	2.3 E-09
Sr-90	29.1 a	F	0.300	2.4 E-08	3.0 E-08	0.300	2.8 E-08
		S	0.010	1.5 E-07	7.7 E-08	0.010	2.7 E-09
Sr-91	9.50 h	F	0.300	1.7 E-10	2.9 E-10	0.300	6.5 E-10
		S	0.010	4.1 E-10	5.7 E-10	0.010	7.6 E-10
Sr-92	2.71 h	F	0.300	1.1 E-10	1.8 E-10	0.300	4.3 E-10
		S	0.010	2.3 E-10	3.4 E-10	0.010	4.9 E-10
Itrij							
Y-86	14.7 h	M	1.0 E-04	4.8 E-10	8.0 E-10	1.0 E-04	9.6 E-10
		S	1.0 E-04	4.9 E-10	8.1 E-10		
Y-86m	0.800 h	M	1.0 E-04	2.9 E-11	4.8 E-11	1.0 E-04	5.6 E-11
		S	1.0 E-04	3.0 E-11	4.9 E-11		
Y-87	3.35 d	M	1.0 E-04	3.8 E-10	5.2 E-10	1.0 E-04	5.5 E-10
		S	1.0 E-04	4.0 E-10	5.3 E-10		
Y-88	107 d	M	1.0 E-04	3.9 E-09	3.3 E-09	1.0 E-04	1.3 E-09
		S	1.0 E-04	4.1 E-09	3.0 E-09		
Y-90	2.67 d	M	1.0 E-04	1.4 E-09	1.6 E-09	1.0 E-04	2.7 E-09
		S	1.0 E-04	1.5 E-09	1.7 E-09		
Y-90m	3.19 h	M	1.0 E-04	9.6 E-11	1.3 E-10	1.0 E-04	1.7 E-10
		S	1.0 E-04	1.0 E-10	1.3 E-10		
Y-91	58.5 d	M	1.0 E-04	6.7 E-09	5.2 E-09	1.0 E-04	2.4 E-09
		S	1.0 E-04	8.4 E-09	6.1 E-09		
Y-91m	0.828 h	M	1.0 E-04	1.0 E-11	1.4 E-11	1.0 E-04	1.1 E-11
		S	1.0 E-04	1.1 E-11	1.5 E-11		
Y-92	3.54 h	M	1.0 E-04	1.9 E-10	2.7 E-10	1.0 E-04	4.9 E-10
		S	1.0 E-04	2.0 E-10	2.8 E-10		
Y-93	10.1 h	M	1.0 E-04	4.1 E-10	5.7 E-10	1.0 E-04	1.2 E-09
		S	1.0 E-04	4.3 E-10	6.0 E-10		
Y-94	0.318 h	M	1.0 E-04	2.8 E-11	4.4 E-11	1.0 E-04	8.1 E-11
		S	1.0 E-04	2.9 E-11	4.6 E-11		
Y-95	0.178 h	M	1.0 E-04	1.6 E-11	2.5 E-11	1.0 E-04	4.6 E-11
		S	1.0 E-04	1.7 E-11	2.6 E-11		
Cirkonij							
Zr-86	16.5 h	F	0.002	3.0 E-10	5.2 E-10	0.002	8.6 E-10
		M	0.002	4.3 E-10	6.8 E-10		
		S	0.002	4.5 E-10	7.0 E-10		
Zr-88	83.4 d	F	0.002	3.5 E-09	4.1 E-09	0.002	3.3 E-10
		M	0.002	2.5 E-09	1.7 E-09		
		S	0.002	3.3 E-09	1.8 E-09		
Zr-89	3.27 d	F	0.002	3.1 E-10	5.2 E-10	0.002	7.9 E-10
		M	0.002	5.3 E-10	7.2 E-10		
		S	0.002	5.5 E-10	7.5 E-10		
Zr-93	1.53E+06 a	F	0.002	2.5 E-08	2.9 E-08	0.002	2.8 E-10

Zr-95	64.0 d	M	0.002	9.6 E-09	6.6 E-09	0.002	8.8 E-10
		S	0.002	3.1 E-09	1.7 E-09		
		F	0.002	2.5 E-09	3.0 E-09		
Zr-97	16.9 h	M	0.002	4.5 E-09	3.6 E-09	0.002	2.1 E-09
		S	0.002	5.5 E-09	4.2 E-09		
		F	0.002	4.2 E-10	7.4 E-10		
		M	0.002	9.4 E-10	1.3 E-09		
		S	0.002	1.0 E-09	1.4 E-09		
Niobij							
Nb-88	0.238 h	M	0.010	2.9 E-11	4.8 E-11	0.010	6.3 E-11
		S	0.010	3.0 E-11	5.0 E-11		
Nb-89	2.03 h	M	0.010	1.2 E-10	1.8 E-10	0.010	3.0 E-10
		S	0.010	1.3 E-10	1.9 E-10		
Nb-89	1.10 h	M	0.010	7.1 E-11	1.1 E-10	0.010	1.4 E-10
		S	0.010	7.4 E-11	1.2 E-10		
Nb-90	14.6 h	M	0.010	6.6 E-10	1.0 E-09	0.010	1.2 E-09
		S	0.010	6.9 E-10	1.1 E-09		
Nb-93m	13.6 a	M	0.010	4.6 E-10	2.9 E-10	0.010	1.2 E-10
		S	0.010	1.6 E-09	8.6 E-10		
Nb-94	2.03E+04 a	M	0.010	1.0 E-08	7.2 E-09	0.010	1.7 E-09
		S	0.010	4.5 E-08	2.5 E-08		
Nb-95	35.1 d	M	0.010	1.4 E-09	1.3 E-09	0.010	5.8 E-10
		S	0.010	1.6 E-09	1.3 E-09		
Nb-95m	3.61 d	M	0.010	7.6 E-10	7.7 E-10	0.010	5.6 E-10
		S	0.010	8.5 E-10	8.5 E-10		
Nb-96	23.3 h	M	0.010	6.5 E-10	9.7 E-10	0.010	1.1 E-09
		S	0.010	6.8 E-10	1.0 E-09		
Nb-97	1.20 h	M	0.010	4.4 E-11	6.9 E-11	0.010	6.8 E-11
		S	0.010	4.7 E-11	7.2 E-11		
Nb-98	0.858 h	M	0.010	5.9 E-11	9.6 E-11	0.010	1.1 E-10
		S	0.010	6.1 E-11	9.9 E-11		
Molibden							
Mo-90	5.67 h	F	0.800	1.7 E-10	2.9 E-10	0.800	3.1 E-10
		S	0.050	3.7 E-10	5.6 E-10	0.050	6.2 E-10
Mo-93	3.50E+03 a	F	0.800	1.0 E-09	1.4 E-09	0.800	2.6 E-09
		S	0.050	2.2 E-09	1.2 E-09	0.050	2.0 E-10
Mo-93m	6.85 h	F	0.800	1.0 E-10	1.9 E-10	0.800	1.6 E-10
		S	0.050	1.8 E-10	3.0 E-10	0.050	2.8 E-10
Mo-99	2.75 d	F	0.800	2.3 E-10	3.6 E-10	0.800	7.4 E-10
		S	0.050	9.7 E-10	1.1 E-09	0.050	1.2 E-09
Mo-101	0.244 h	F	0.800	1.5 E-11	2.7 E-11	0.800	4.2 E-11
		S	0.050	2.7 E-11	4.5 E-11	0.050	4.2 E-11
Tehnecij							
Tc-93	2.75 h	F	0.800	3.4 E-11	6.2 E-11	0.800	4.9 E-11
		M	0.800	3.6 E-11	6.5 E-11		
Tc-93m	0.725 h	F	0.800	1.5 E-11	2.6 E-11	0.800	2.4 E-11
		M	0.800	1.7 E-11	3.1 E-11		

Tc-94	4.88 h	F	0.800	1.2 E-10	2.1 E-10	0.800	1.8 E-10
		M	0.800	1.3 E-10	2.2 E-10		
Tc-94m	0.867 h	F	0.800	4.3 E-11	6.9 E-11	0.800	1.1 E-10
		M	0.800	4.9 E-11	8.0 E-11		
Tc-95	20.0 h	F	0.800	1.0 E-10	1.8 E-10	0.800	1.6 E-10
		M	0.800	1.0 E-10	1.8 E-10		
Tc-95m	61.0 d	F	0.800	3.1 E-10	4.8 E-10	0.800	6.2 E-10
		M	0.800	8.7 E-10	8.6 E-10		
Tc-96	4.28 d	F	0.800	6.0 E-10	9.8 E-10	0.800	1.1 E-09
		M	0.800	7.1 E-10	1.0 E-09		
Tc-96m	0.858 h	F	0.800	6.5 E-12	1.1 E-11	0.800	1.3 E-11
		M	0.800	7.7 E-12	1.1 E-11		
Tc-97	2.60E+06 a	F	0.800	4.5 E-11	7.2 E-11	0.800	8.3 E-11
		M	0.800	2.1 E-10	1.6 E-10		
Tc-97m	87.0 d	F	0.800	2.8 E-10	4.0 E-10	0.800	6.6 E-10
		M	0.800	3.1 E-09	2.7 E-09		
Tc-98	4.20E+06 a	F	0.800	1.0 E-09	1.5 E-09	0.800	2.3 E-09
		M	0.800	8.1 E-09	6.1 E-09		
Tc-99	2.13E+05 a	F	0.800	2.9 E-10	4.0 E-10	0.800	7.8 E-10
		M	0.800	3.9 E-09	3.2 E-09		
Tc-99m	6.02 h	F	0.800	1.2 E-11	2.0 E-11	0.800	2.2 E-11
		M	0.800	1.9 E-11	2.9 E-11		
Tc-101	0.237 h	F	0.800	8.7 E-12	1.5 E-11	0.800	1.9 E-11
		M	0.800	1.3 E-11	2.1 E-11		
Tc-104	0.303 h	F	0.800	2.4 E-11	3.9 E-11	0.800	8.1 E-11
		M	0.800	3.0 E-11	4.8 E-11		
Rutenij							
Ru-94	0.863 h	F	0.050	2.7 E-11	4.9 E-11	0.050	9.4 E-11
		M	0.050	4.4 E-11	7.2 E-11		
		S	0.050	4.6 E-11	7.4 E-11		
Ru-97	2.90 d	F	0.050	6.7 E-11	1.2 E-10	0.050	1.5 E-10
		M	0.050	1.1 E-10	1.6 E-10		
		S	0.050	1.1 E-10	1.6 E-10		
Ru-103	39.3 d	F	0.050	4.9 E-10	6.8 E-10	0.050	7.3 E-10
		M	0.050	2.3 E-09	1.9 E-09		
		S	0.050	2.8 E-09	2.2 E-09		
Ru-105	4.44 h	F	0.050	7.1 E-11	1.3 E-10	0.050	2.6 E-10
		M	0.050	1.7 E-10	2.4 E-10		
		S	0.050	1.8 E-10	2.5 E-10		
Ru-106	1.01 a	F	0.050	8.0 E-09	9.8 E-09	0.050	7.0 E-09
		M	0.050	2.6 E-08	1.7 E-08		
		S	0.050	6.2 E-08	3.5 E-08		
Rodij							
Rh-99	16.0 d	F	0.050	3.3 E-10	4.9 E-10	0.050	5.1 E-10
		M	0.050	7.3 E-10	8.2 E-10		
		S	0.050	8.3 E-10	8.9 E-10		
Rh-99m	4.70 h	F	0.050	3.0 E-11	5.7 E-11	0.050	6.6 E-11
		M	0.050	4.1 E-11	7.2 E-11		
		S	0.050	4.3 E-11	7.3 E-11		
Rh-100	20.8 h	F	0.050	2.8 E-10	5.1 E-10	0.050	7.1 E-10

Rh-101	3.20 a	M	0.050	3.6 E-10	6.2 E-10	0.050	5.5 E-10
		S	0.050	3.7 E-10	6.3 E-10		
		F	0.050	1.4 E-09	1.7 E-09		
Rh-101m	4.34 d	M	0.050	2.2 E-09	1.7 E-09	0.050	2.2 E-10
		S	0.050	5.0 E-09	3.1 E-09		
		F	0.050	1.0 E-10	1.7 E-10		
Rh-102	2.90 a	M	0.050	2.0 E-10	2.5 E-10	0.050	2.6 E-09
		S	0.050	2.1 E-10	2.7 E-10		
		F	0.050	7.3 E-09	8.9 E-09		
Rh-102m	207 d	M	0.050	6.5 E-09	5.0 E-09	0.050	1.2 E-09
		S	0.050	1.6 E-08	9.0 E-09		
		F	0.050	1.5 E-09	1.9 E-09		
Rh-103m	0.935 h	M	0.050	3.8 E-09	2.7 E-09	0.050	3.8 E-12
		S	0.050	6.7 E-09	4.2 E-09		
		F	0.050	8.6 E-13	1.2 E-12		
Rh-105	1.47 d	M	0.050	2.3 E-12	2.4 E-12	0.050	3.7 E-10
		S	0.050	2.5 E-12	2.5 E-12		
		F	0.050	8.7 E-11	1.5 E-10		
Rh-106m	2.20 h	M	0.050	3.1 E-10	4.1 E-10	0.050	1.6 E-10
		S	0.050	3.4 E-10	4.4 E-10		
		F	0.050	7.0 E-11	1.3 E-10		
Rh-107	0.362 h	M	0.050	1.1 E-10	1.8 E-10	0.050	2.4 E-11
		S	0.050	1.2 E-10	1.9 E-10		
		F	0.050	9.6 E-12	1.6 E-11		
Paladij Pd-100	3.63 d	M	0.050	1.7 E-11	2.7 E-11	0.050	2.8 E-11
		S	0.050	1.7 E-11	2.8 E-11		
		F	0.050	1.7 E-11	2.8 E-11		
Pd-101	8.27 h	F	0.005	4.9 E-10	7.6 E-10	0.005	9.4 E-10
		M	0.005	7.9 E-10	9.5 E-10		
		S	0.005	8.3 E-10	9.7 E-10		
Pd-103	17.0 d	F	0.005	4.2 E-11	7.5 E-11	0.005	9.4 E-11
		M	0.005	6.2 E-11	9.8 E-11		
		S	0.005	6.4 E-11	1.0 E-10		
Pd-107	6.50E+06 a	F	0.005	9.0 E-11	1.2 E-10	0.005	1.9 E-10
		M	0.005	3.5 E-10	3.0 E-10		
		S	0.005	4.0 E-10	2.9 E-10		
Pd-109	13.4 h	F	0.005	2.6 E-11	3.3 E-11	0.005	3.7 E-11
		M	0.005	8.0 E-11	5.2 E-11		
		S	0.005	5.5 E-10	2.9 E-10		
Srebro Ag-102	0.215 h	F	0.005	1.2 E-10	2.1 E-10	0.005	5.5 E-10
		M	0.005	3.4 E-10	4.7 E-10		
		S	0.005	3.6 E-10	5.0 E-10		
Ag-103	1.09 h	F	0.050	1.4 E-11	2.4 E-11	0.050	4.0 E-11
		M	0.050	1.8 E-11	3.2 E-11		
		S	0.050	1.9 E-11	3.2 E-11		
Ag-104	1.15 h	F	0.050	1.6 E-11	2.8 E-11	0.050	4.3 E-11
		M	0.050	2.7 E-11	4.3 E-11		
		S	0.050	2.8 E-11	4.5 E-11		

Ag-104m	0.558 h	M	0.050	3.9 E-11	6.9 E-11	0.050	5.4 E-11
		S	0.050	4.0 E-11	7.1 E-11		
		F	0.050	1.7 E-11	3.1 E-11		
Ag-105	41.0 d	M	0.050	2.6 E-11	4.4 E-11	0.050	4.7 E-10
		S	0.050	2.7 E-11	4.5 E-11		
		F	0.050	5.4 E-10	8.0 E-10		
Ag-106	0.399 h	M	0.050	6.9 E-10	7.0 E-10	0.050	3.2 E-11
		S	0.050	7.8 E-10	7.3 E-10		
		F	0.050	9.8 E-12	1.7 E-11		
Ag-106m	8.41 d	M	0.050	1.6 E-11	2.6 E-11	0.050	1.5 E-09
		S	0.050	1.6 E-11	2.7 E-11		
		F	0.050	1.1 E-09	1.6 E-09		
Ag-108m	1.27E+02 a	M	0.050	1.1 E-09	1.5 E-09	0.050	2.3 E-09
		S	0.050	1.1 E-09	1.4 E-09		
		F	0.050	6.1 E-09	7.3 E-09		
Ag-110m	250 d	M	0.050	7.0 E-09	5.2 E-09	0.050	2.8 E-09
		S	0.050	3.5 E-08	1.9 E-08		
		F	0.050	5.5 E-09	6.7 E-09		
Ag-111	7.45 d	M	0.050	7.2 E-09	5.9 E-09	0.050	1.3 E-09
		S	0.050	1.2 E-08	7.3 E-09		
		F	0.050	4.1 E-10	5.7 E-10		
Ag-112	3.12 h	M	0.050	1.5 E-09	1.5 E-09	0.050	4.3 E-10
		S	0.050	1.7 E-09	1.6 E-09		
		F	0.050	8.2 E-11	1.4 E-10		
Ag-115	0.333 h	M	0.050	1.7 E-10	2.5 E-10	0.050	6.0 E-11
		S	0.050	1.8 E-10	2.6 E-10		
		F	0.050	1.6 E-11	2.6 E-11		
Kadmij		M	0.050	2.8 E-11	4.3 E-11	0.050	
		S	0.050	3.0 E-11	4.4 E-11		
		F	0.050	3.0 E-11	4.4 E-11		
Cd-104	0.961 h	F	0.050	2.7 E-11	5.0 E-11	0.050	5.8 E-11
		M	0.050	3.6 E-11	6.2 E-11		
		S	0.050	3.7 E-11	6.3 E-11		
Cd-107	6.49 h	F	0.050	2.3 E-11	4.2 E-11	0.050	6.2 E-11
		M	0.050	8.1 E-11	1.0 E-10		
		S	0.050	8.7 E-11	1.1 E-10		
Cd-109	1.27 a	F	0.050	8.1 E-09	9.6 E-09	0.050	2.0 E-09
		M	0.050	6.2 E-09	5.1 E-09		
		S	0.050	5.8 E-09	4.4 E-09		
Cd-113	9.30E+15 a	F	0.050	1.2 E-07	1.4 E-07	0.050	2.5 E-08
		M	0.050	5.3 E-08	4.3 E-08		
		S	0.050	2.5 E-08	2.1 E-08		
Cd-113m	13.6 a	F	0.050	1.1 E-07	1.3 E-07	0.050	2.3 E-08
		M	0.050	5.0 E-08	4.0 E-08		
		S	0.050	3.0 E-08	2.4 E-08		
Cd-115	2.23 d	F	0.050	3.7 E-10	5.4 E-10	0.050	1.4 E-09
		M	0.050	9.7 E-10	1.2 E-09		
		S	0.050	1.1 E-09	1.3 E-09		
Cd-115m	44.6 d	F	0.050	5.3 E-09	6.4 E-09	0.050	3.3 E-09
		M	0.050	5.9 E-09	5.5 E-09		
		S	0.050	7.3 E-09	5.5 E-09		

Cd-117	2.49 h	F	0.050	7.3 E-11	1.3 E-10	0.050	2.8 E-10
		M	0.050	1.6 E-10	2.4 E-10		
		S	0.050	1.7 E-10	2.5 E-10		
Cd-117m	3.36 h	F	0.050	1.0 E-10	1.9 E-10	0.050	2.8 E-10
		M	0.050	2.0 E-10	3.1 E-10		
		S	0.050	2.1 E-10	3.2 E-10		
Indij							
In-109	4.20 h	F	0.020	3.2 E-11	5.7 E-11	0.020	6.6 E-11
		M	0.020	4.4 E-11	7.3 E-11		
In-110	4.90 h	F	0.020	1.2 E-10	2.2 E-10	0.020	2.4 E-10
		M	0.020	1.4 E-10	2.5 E-10		
In-110	1.15 h	F	0.020	3.1 E-11	5.5 E-11	0.020	1.0 E-10
		M	0.020	5.0 E-11	8.1 E-11		
In-111	2.83 d	F	0.020	1.3 E-10	2.2 E-10	0.020	2.9 E-10
		M	0.020	2.3 E-10	3.1 E-10		
In-112	0.240 h	F	0.020	5.0 E-12	8.6 E-12	0.020	1.0 E-11
		M	0.020	7.8 E-12	1.3 E-11		
In-113m	1.66 h	F	0.020	1.0 E-11	1.9 E-11	0.020	2.8 E-11
		M	0.020	2.0 E-11	3.2 E-11		
In-114m	49.5 d	F	0.020	9.3 E-09	1.1 E-08	0.020	4.1 E-09
		M	0.020	5.9 E-09	5.9 E-09		
In-115	5.10E+15 a	F	0.020	3.9 E-07	4.5 E-07	0.020	3.2 E-08
		M	0.020	1.5 E-07	1.1 E-07		
In-115m	4.49 h	F	0.020	2.5 E-11	4.5 E-11	0.020	8.6 E-11
		M	0.020	6.0 E-11	8.7 E-11		
In-116m	0.902 h	F	0.020	3.0 E-11	5.5 E-11	0.020	6.4 E-11
		M	0.020	4.8 E-11	8.0 E-11		
In-117	0.730 h	F	0.020	1.6 E-11	2.8 E-11	0.020	3.1 E-11
		M	0.020	3.0 E-11	4.8 E-11		
In-117m	1.94 h	F	0.020	3.1 E-11	5.5 E-11	0.020	1.2 E-10
		M	0.020	7.3 E-11	1.1 E-10		
In-119m	0.300 h	F	0.020	1.1 E-11	1.8 E-11	0.020	4.7 E-11
		M	0.020	1.8 E-11	2.9 E-11		
Kositar							
Sn-110	4.00 h	F	0.020	1.1 E-10	1.9 E-10	0.020	3.5 E-10
		M	0.020	1.6 E-10	2.6 E-10		
Sn-111	0.588 h	F	0.020	8.3 E-12	1.5 E-11	0.020	2.3 E-11
		M	0.020	1.4 E-11	2.2 E-11		
Sn-113	115 d	F	0.020	5.4 E-10	7.9 E-10	0.020	7.3 E-10
		M	0.020	2.5 E-09	1.9 E-09		
Sn-117m	13.6 d	F	0.020	2.9 E-10	3.9 E-10	0.020	7.1 E-10
		M	0.020	2.3 E-09	2.2 E-09		
Sn-119m	293 d	F	0.020	2.9 E-10	3.6 E-10	0.020	3.4 E-10
		M	0.020	2.0 E-09	1.5 E-09		
Sn-121	1.13 d	F	0.020	6.4 E-11	1.0 E-10	0.020	2.3 E-10
		M	0.020	2.2 E-10	2.8 E-10		
Sn-121m	55.0 a	F	0.020	8.0 E-10	9.7 E-10	0.020	3.8 E-10
		M	0.020	4.2 E-09	3.3 E-09		
Sn-123	129 d	F	0.020	1.2 E-09	1.6 E-09	0.020	2.1 E-09
		M	0.020	7.7 E-09	5.6 E-09		

Sn-123m	0.668 h	F	0.020	1.4 E-11	2.4 E-11	0.020	3.8 E-11
		M	0.020	2.8 E-11	4.4 E-11		
Sn-125	9.64 d	F	0.020	9.2 E-10	1.3 E-09	0.020	3.1 E-09
		M	0.020	3.0 E-09	2.8 E-09		
Sn-126	1.00E+05 a	F	0.020	1.1 E-08	1.4 E-08	0.020	4.7 E-09
		M	0.020	2.7 E-08	1.8 E-08		
Sn-127	2.10 h	F	0.020	6.9 E-11	1.2 E-10	0.020	2.0 E-10
		M	0.020	1.3 E-10	2.0 E-10		
Sn-128	0.985 h	F	0.020	5.4 E-11	9.5 E-11	0.020	1.5 E-10
		M	0.020	9.6 E-11	1.5 E-10		
Antimon							
Sb-115	0.530 h	F	0.100	9.2 E-12	1.7 E-11	0.100	2.4 E-11
		M	0.010	1.4 E-11	2.3 E-11		
Sb-116	0.263 h	F	0.100	9.9 E-12	1.8 E-11	0.100	2.6 E-11
		M	0.010	1.4 E-11	2.3 E-11		
Sb-116m	1.00 h	F	0.100	3.5 E-11	6.4 E-11	0.100	6.7 E-11
		M	0.010	5.0 E-11	8.5 E-11		
Sb-117	2.80 h	F	0.100	9.3 E-12	1.7 E-11	0.100	1.8 E-11
		M	0.010	1.7 E-11	2.7 E-11		
Sb-118m	5.00 h	F	0.100	1.0 E-10	1.9 E-10	0.100	2.1 E-10
		M	0.010	1.3 E-10	2.3 E-10		
Sb-119	1.59 d	F	0.100	2.5 E-11	4.5 E-11	0.100	8.1 E-11
		M	0.010	3.7 E-11	5.9 E-11		
Sb-120	5.76 d	F	0.100	5.9 E-10	9.8 E-10	0.100	1.2 E-09
		M	0.010	1.0 E-09	1.3 E-09		
Sb-120	0.265 h	F	0.100	4.9 E-12	8.5 E-12	0.100	1.4 E-11
		M	0.010	7.4 E-12	1.2 E-11		
Sb-122	2.70 d	F	0.100	3.9 E-10	6.3 E-10	0.100	1.7 E-09
		M	0.010	1.0 E-09	1.2 E-09		
Sb-124	60.2 d	F	0.100	1.3 E-09	1.9 E-09	0.100	2.5 E-09
		M	0.010	6.1 E-09	4.7 E-09		
Sb-124m	0.337 h	F	0.100	3.0 E-12	5.3 E-12	0.100	8.0E-12
		M	0.010	5.5 E-12	8.3 E-12		
Sb-125	2.77 a	F	0.100	1.4 E-09	1.7 E-09	0.100	1.1 E-09
		M	0.010	4.5 E-09	3.3 E-09		
Sb-126	12.4 d	F	0.100	1.1 E-09	1.7 E-09	0.100	2.4 E-09
		M	0.010	2.7 E-09	3.2 E-09		
Sb-126m	0.317 h	F	0.100	1.3 E-11	2.3 E-11	0.100	3.6 E-11
		M	0.010	2.0 E-11	3.3 E-11		
Sb-127	3.85 d	F	0.100	4.6 E-10	7.4 E-10	0.100	1.7 E-09
		M	0.010	1.6 E-09	1.7 E-09		
Sb-128	9.01 h	F	0.100	2.5 E-10	4.6 E-10	0.100	7.6 E-10
		M	0.010	4.2 E-10	6.7 E-10		
Sb-128	0.173 h	F	0.100	1.1 E-11	1.9 E-11	0.100	3.3 E-11
		M	0.010	1.5 E-11	2.6 E-11		
Sb-129	4.32 h	F	0.100	1.1 E-10	2.0 E-10	0.100	4.2 E-10
		M	0.010	2.4 E-10	3.5 E-10		
Sb-130	0.667 h	F	0.100	3.5 E-11	6.3 E-11	0.100	9.1 E-11
		M	0.010	5.4 E-11	9.1 E-11		
Sb-131	0.383 h	F	0.100	3.7 E-11	5.9 E-11	0.100	1.0 E-10
		M	0.010	5.2 E-11	8.3 E-11		

Telur							
Te-116	2.49 h	F	0.300	6.3 E-11	1.2 E-10	0.300	1.7 E-10
		M	0.300	1.1 E-10	1.7 E-10		
Te-121	17.0 d	F	0.300	2.5 E-10	3.9 E-10	0.300	4.3 E-10
		M	0.300	3.9 E-10	4.4 E-10		
Te-121m	154 d	F	0.300	1.8 E-09	2.3 E-09	0.300	2.3 E-09
		M	0.300	4.2 E-09	3.6 E-09		
Te-123	1.00E+13 a	F	0.300	4.0 E-09	5.0 E-09	0.300	4.4 E-09
		M	0.300	2.6 E-09	2.8 E-09		
Te-123m	120 d	F	0.300	9.7 E-10	1.2 E-09	0.300	1.4 E-09
		M	0.300	3.9 E-09	3.4 E-09		
Te-125m	58.0 d	F	0.300	5.1 E-10	6.7 E-10	0.300	8.7 E-10
		M	0.300	3.3 E-09	2.9 E-09		
Te-127	9.35 h	F	0.300	4.2 E-11	7.2 E-11	0.300	1.7 E-10
		M	0.300	1.2 E-10	1.8 E-10		
Te-127m	109 d	F	0.300	1.6 E-09	2.0 E-09	0.300	2.3 E-09
		M	0.300	7.2 E-09	6.2 E-09		
Te-129	1.16 h	F	0.300	1.7 E-11	2.9 E-11	0.300	6.3 E-11
		M	0.300	3.8 E-11	5.7 E-11		
Te-129m	33.6 d	F	0.300	1.3 E-09	1.8 E-09	0.300	3.0 E-09
		M	0.300	6.3 E-09	5.4 E-09		
Te-131	0.417 h	F	0.300	2.3 E-11	4.6 E-11	0.300	8.7 E-11
		M	0.300	3.8 E-11	6.1 E-11		
Te-131m	1.25 d	F	0.300	8.7 E-10	1.2 E-09	0.300	1.9 E-09
		M	0.300	1.1 E-09	1.6 E-09		
Te-132	3.26 d	F	0.300	1.8 E-09	2.4 E-09	0.300	3.7 E-09
		M	0.300	2.2 E-09	3.0 E-09		
Te-133	0.207 h	F	0.300	2.0 E-11	3.8 E-11	0.300	7.2 E-11
		M	0.300	2.7 E-11	4.4 E-11		
Te-133m	0.923 h	F	0.300	8.4 E-11	1.2 E-10	0.300	2.8 E-10
		M	0.300	1.2 E-10	1.9 E-10		
Te-134	0.696 h	F	0.300	5.0 E-11	8.3 E-11	0.300	1.1 E-10
		M	0.300	7.1 E-11	1.1 E-10		
Jod							
I-120	1.35 h	F	1.000	1.0 E-10	1.9 E-10	1.000	3.4 E-10
I-120m	0.883 h	F	1.000	8.7 E-11	1.4 E-10	1.000	2.1 E-10
I-121	2.12 h	F	1.000	2.8 E-11	3.9 E-11	1.000	8.2 E-11
I-123	13.2 h	F	1.000	7.6 E-11	1.1 E-10	1.000	2.1 E-10
I-124	4.18 d	F	1.000	4.5 E-09	6.3 E-09	1.000	1.3 E-08
I-125	60.1 d	F	1.000	5.3 E-09	7.3 E-09	1.000	1.5 E-08
I-126	13.0 d	F	1.000	1.0 E-08	1.4 E-08	1.000	2.9 E-08
I-128	0.416 h	F	1.000	1.4 E-11	2.2 E-11	1.000	4.6 E-11
I-129	1.57E+07 a	F	1.000	3.7 E-08	5.1 E-08	1.000	1.1 E-07
I-130	12.4 h	F	1.000	6.9 E-10	9.6 E-10	1.000	2.0 E-09
I-131	8.04 d	F	1.000	7.6 E-09	1.1 E-08	1.000	2.2 E-08
I-132	2.30 h	F	1.000	9.6 E-11	2.0 E-10	1.000	2.9 E-10
I-132m	1.39 h	F	1.000	8.1 E-11	1.1 E-10	1.000	2.2 E-10
I-133	20.8 h	F	1.000	1.5 E-09	2.1 E-09	1.000	4.3 E-09
I-134	0.876 h	F	1.000	4.8 E-11	7.9 E-11	1.000	1.1 E-10
I-135	6.61 h	F	1.000	3.3 E-10	4.6 E-10	1.000	9.3 E-10

Cezij							
Cs-125	0.750 h	F	1.000	1.3 E-11	2.3 E-11	1.000	3.5 E-11
Cs-127	6.25 h	F	1.000	2.2 E-11	4.0 E-11	1.000	2.4 E-11
Cs-129	1.34 d	F	1.000	4.5 E-11	8.1 E-11	1.000	6.0 E-11
Cs-130	0.498 h	F	1.000	8.4 E-12	1.5 E-11	1.000	2.8 E-11
Cs-131	9.69 d	F	1.000	2.8 E-11	4.5 E-11	1.000	5.8 E-11
Cs-132	6.48 d	F	1.000	2.4 E-10	3.8 E-10	1.000	5.0 E-10
Cs-134	2.06 a	F	1.000	6.8 E-09	9.6 E-09	1.000	1.9 E-08
Cs-134m	2.90 h	F	1.000	1.5 E-11	2.6 E-11	1.000	2.0 E-11
Cs-135	2.30E+06 a	F	1.000	7.1 E-10	9.9 E-10	1.000	2.0 E-09
Cs-135m	0.883 h	F	1.000	1.3 E-11	2.4 E-11	1.000	1.9 E-11
Cs-136	13.1 d	F	1.000	1.3 E-09	1.9 E-09	1.000	3.0 E-09
Cs-137	30.0 a	F	1.000	4.8 E-09	6.7 E-09	1.000	1.3 E-08
Cs-138	0.536 h	F	1.000	2.6 E-11	4.6 E-11	1.000	9.2 E-11
Barij							
Ba-126	1.61 h	F	0.100	7.8 E-11	1.2 E-10	0.100	2.6 E-10
Ba-128	2.43 d	F	0.100	8.0 E-10	1.3 E-09	0.100	2.7 E-09
Ba-131	11.8 d	F	0.100	2.3 E-10	3.5 E-10	0.100	4.5 E-10
Ba-131m	0.243 h	F	0.100	4.1 E-12	6.4 E-12	0.100	4.9 E-12
Ba-133	10.7 a	F	0.100	1.5 E-09	1.8 E-09	0.100	1.0 E-09
Ba-133m	1.62 d	F	0.100	1.9 E-10	2.8 E-10	0.100	5.5 E-10
Ba-135m	1.20 d	F	0.100	1.5 E-10	2.3 E-10	0.100	4.5 E-10
Ba-139	1.38 h	F	0.100	3.5 E-11	5.5 E-11	0.100	1.2 E-10
Ba-140	12.7 d	F	0.100	1.0 E-09	1.6 E-09	0.100	2.5 E-09
Ba-141	0.305 h	F	0.100	2.2 E-11	3.5 E-11	0.100	7.0 E-11
Ba-142	0.177 h	F	0.100	1.6 E-11	2.7 E-11	0.100	3.5 E-11
Lantan							
La-131	0.983 h	F	5.0 E-04	1.4 E-11	2.4 E-11	5.0 E-04	3.5 E-11
		M	5.0 E-04	2.3 E-11	3.6 E-11		
La-132	4.80 h	F	5.0 E-04	1.1 E-10	2.0 E-10	5.0 E-04	3.9 E-10
		M	5.0 E-04	1.7 E-10	2.8 E-10		
La-135	19.5 h	F	5.0 E-04	1.1 E-11	2.0 E-11	5.0 E-04	3.0 E-11
		M	5.0 E-04	1.5 E-11	2.5 E-11		
La-137	6.00E+04 a	F	5.0 E-04	8.6 E-09	1.0 E-08	5.0 E-04	8.1 E-11
		M	5.0 E-04	3.4 E-09	2.3 E-09		
La-138	1.35E+11 a	F	5.0 E-04	1.5 E-07	1.8 E-07	5.0 E-04	1.1 E-09
		M	5.0 E-04	6.1 E-08	4.2 E-08		
La-140	1.68 d	F	5.0 E-04	6.0 E-10	1.0 E-09	5.0 E-04	2.0 E-09
		M	5.0 E-04	1.1 E-09	1.5 E-09		
La-141	3.93 h	F	5.0 E-04	6.7 E-11	1.1 E-10	5.0 E-04	3.6 E-10
		M	5.0 E-04	1.5 E-10	2.2 E-10		
La-142	1.54 h	F	5.0 E-04	5.6 E-11	1.0 E-10	5.0 E-04	1.8 E-10
		M	5.0 E-04	9.3 E-11	1.5 E-10		
La-143	0.237 h	F	5.0 E-04	1.2 E-11	2.0 E-11	5.0 E-04	5.6 E-11
		M	5.0 E-04	2.2 E-11	3.3 E-11		
Cerij							
Ce-134	3.00 d	M	5.0 E-04	1.3 E-09	1.5 E-09	5.0 E-04	2.5 E-09
Ce-135	17.6 h	S	5.0 E-04	1.3 E-09	1.6 E-09	5.0 E-04	7.9 E-10
		M	5.0 E-04	4.9 E-10	7.3 E-10		

Ce-137	9.00 h	S	5.0 E-04	5.1 E-10	7.6 E-10		
		M	5.0 E-04	1.0 E-11	1.8 E-11	5.0 E-04	2.5 E-11
		S	5.0 E-04	1.1 E-11	1.9 E-11		
Ce-137m	1.43 d	M	5.0 E-04	4.0 E-10	5.5 E-10	5.0 E-04	5.4 E-10
		S	5.0 E-04	4.3 E-10	5.9 E-10		
Ce-139	138 d	M	5.0 E-04	1.6 E-09	1.3 E-09	5.0 E-04	2.6 E-10
		S	5.0 E-04	1.8 E-09	1.4 E-09		
Ce-141	32.5 d	M	5.0 E-04	3.1 E-09	2.7 E-09	5.0 E-04	7.1 E-10
		S	5.0 E-04	3.6 E-09	3.1 E-09		
Ce-143	1.38 d	M	5.0 E-04	7.4 E-10	9.5 E-10	5.0 E-04	1.1 E-09
		S	5.0 E-04	8.1 E-10	1.0 E-09		
Ce-144	284 d	M	5.0 E-04	3.4 E-08	2.3 E-08	5.0 E-04	5.2 E-09
Praezodij		S	5.0 E-04	4.9 E-08	2.9 E-08		
Pr-136	0.218 h	M	5.0 E-04	1.4 E-11	2.4 E-11	5.0 E-04	3.3 E-11
		S	5.0 E-04	1.5 E-11	2.5 E-11		
Pr-137	1.28 h	M	5.0 E-04	2.1 E-11	3.4 E-11	5.0 E-04	4.0 E-11
		S	5.0 E-04	2.2 E-11	3.5 E-11		
Pr-138m	2.10 h	M	5.0 E-04	7.6 E-11	1.3 E-10	5.0 E-04	1.3 E-10
		S	5.0 E-04	7.9 E-11	1.3 E-10		
Pr-139	4.51 h	M	5.0 E-04	1.9 E-11	2.9 E-11	5.0 E-04	3.1 E-11
		S	5.0 E-04	2.0 E-11	3.0 E-11		
Pr-142	19.1 h	M	5.0 E-04	5.3 E-10	7.0 E-10	5.0 E-04	1.3 E-09
		S	5.0 E-04	5.6 E-10	7.4 E-10		
Pr-142m	0.243 h	M	5.0 E-04	6.7 E-12	8.9 E-12	5.0 E-04	1.7 E-11
		S	5.0 E-04	7.1 E-12	9.4 E-12		
Pr-143	13.6 d	M	5.0 E-04	2.1 E-09	1.9 E-09	5.0 E-04	1.2 E-09
		S	5.0 E-04	2.3 E-09	2.2 E-09		
Pr-144	0.288 h	M	5.0 E-04	1.8 E-11	2.9 E-11	5.0 E-04	5.0 E-11
		S	5.0 E-04	1.9 E-11	3.0 E-11		
Pr-145	5.98 h	M	5.0 E-04	1.6 E-10	2.5 E-10	5.0 E-04	3.9 E-10
		S	5.0 E-04	1.7 E-10	2.6 E-10		
Pr-147	0.227 h	M	5.0 E-04	1.8 E-11	2.9 E-11	5.0 E-04	3.3 E-11
		S	5.0 E-04	1.9 E-11	3.0 E-11		
Neodij							
Nd-136	0.844 h	M	5.0 E-04	5.3 E-11	8.5 E-11	5.0 E-04	9.9 E-11
		S	5.0 E-04	5.6 E-11	8.9 E-11		
Nd-138	5.04 h	M	5.0 E-04	2.4 E-10	3.7 E-10	5.0 E-04	6.4 E-10
		S	5.0 E-04	2.6 E-10	3.8 E-10		
Nd-139	0.495 h	M	5.0 E-04	1.0 E-11	1.7 E-11	5.0 E-04	2.0 E-11
		S	5.0 E-04	1.1 E-11	1.7 E-11		
Nd-139m	5.50 h	M	5.0 E-04	1.5 E-10	2.5 E-10	5.0 E-04	2.5 E-10
		S	5.0 E-04	1.6 E-10	2.5 E-10		
Nd-141	2.49 h	M	5.0 E-04	5.1 E-12	8.5 E-12	5.0 E-04	8.3 E-12
		S	5.0 E-04	5.3 E-12	8.8 E-12		
Nd-147	11.0 d	M	5.0 E-04	2.0 E-09	1.9 E-09	5.0 E-04	1.1 E-09
		S	5.0 E-04	2.3 E-09	2.1 E-09		
Nd-149	1.73 h	M	5.0 E-04	8.5 E-11	1.2 E-10	5.0 E-04	1.2 E-10
		S	5.0 E-04	9.0 E-11	1.3 E-10		
Nd-151	0.207 h	M	5.0 E-04	1.7 E-11	2.8 E-11	5.0 E-04	3.0 E-11
		S	5.0 E-04	1.8 E-11	2.9 E-11		

Promecij							
Pm-141	0.348 h	M	5.0 E-04	1.5 E-11	2.4 E-11	5.0 E-04	3.6 E-11
		S	5.0 E-04	1.6 E-11	2.5 E-11		
Pm-143	265 d	M	5.0 E-04	1.4 E-09	9.6 E-10	5.0 E-04	2.3 E-10
		S	5.0 E-04	1.3 E-09	8.3 E-10		
Pm-144	363 d	M	5.0 E-04	7.8 E-09	5.4 E-09	5.0 E-04	9.7 E-10
		S	5.0 E-04	7.0 E-09	3.9 E-09		
Pm-145	17.7 a	M	5.0 E-04	3.4 E-09	2.4 E-09	5.0 E-04	1.1 E-10
		S	5.0 E-04	2.1 E-09	1.2 E-09		
Pm-146	5.53 a	M	5.0 E-04	1.9 E-08	1.3 E-08	5.0 E-04	9.0 E-10
		S	5.0 E-04	1.6 E-08	9.0 E-09		
Pm-147	2.62 a	M	5.0 E-04	4.7 E-09	3.5 E-09	5.0 E-04	2.6 E-10
		S	5.0 E-04	4.6 E-09	3.2 E-09		
Pm-148	5.37 d	M	5.0 E-04	2.0 E-09	2.1 E-09	5.0 E-04	2.7 E-09
		S	5.0 E-04	2.1 E-09	2.2 E-09		
Pm-148m	41.3 d	M	5.0 E-04	4.9 E-09	4.1 E-09	5.0 E-04	1.8 E-09
		S	5.0 E-04	5.4 E-09	4.3 E-09		
Pm-149	2.21 d	M	5.0 E-04	6.6 E-10	7.6 E-10	5.0 E-04	9.9 E-10
		S	5.0 E-04	7.2 E-10	8.2 E-10		
Pm-150	2.68 h	M	5.0 E-04	1.3 E-10	2.0 E-10	5.0 E-04	2.6 E-10
		S	5.0 E-04	1.4 E-10	2.1 E-10		
Pm-151	1.18 d	M	5.0 E-04	4.2 E-10	6.1 E-10	5.0 E-04	7.3 E-10
		S	5.0 E-04	4.5 E-10	6.4 E-10		
Samarij							
Sm-141	0.170 h	M	5.0 E-04	1.6 E-11	2.7 E-11	5.0 E-04	3.9 E-11
Sm-141m	0.377 h	M	5.0 E-04	3.4 E-11	5.6 E-11	5.0 E-04	6.5 E-11
Sm-142	1.21 h	M	5.0 E-04	7.4 E-11	1.1 E-10	5.0 E-04	1.9 E-10
Sm-145	340 d	M	5.0 E-04	1.5 E-09	1.1 E-09	5.0 E-04	2.1 E-10
Sm-146	1.03E+08 a	M	5.0 E-04	9.9 E-06	6.7 E-06	5.0 E-04	5.4 E-08
Sm-147	1.06E+11 a	M	5.0 E-04	8.9 E-06	6.1 E-06	5.0 E-04	4.9 E-08
Sm-151	90.0 a	M	5.0 E-04	3.7 E-09	2.6 E-09	5.0 E-04	9.8 E-11
Sm-153	1.95 d	M	5.0 E-04	6.1 E-10	6.8 E-10	5.0 E-04	7.4 E-10
Sm-155	0.368 h	M	5.0 E-04	1.7 E-11	2.8 E-11	5.0 E-04	2.9 E-11
Sm-156	9.40 h	M	5.0 E-04	2.1 E-10	2.8 E-10	5.0 E-04	2.5 E-10
Europij							
Eu-145	5.94 d	M	5.0 E-04	5.6 E-10	7.3 E-10	5.0 E-04	7.5 E-10
Eu-146	4.61 d	M	5.0 E-04	8.2 E-10	1.2 E-09	5.0 E-04	1.3 E-09
Eu-147	24.0 d	M	5.0 E-04	1.0 E-09	1.0 E-09	5.0 E-04	4.4 E-10
Eu-148	54.5 d	M	5.0 E-04	2.7 E-09	2.3 E-09	5.0 E-04	1.3 E-09
Eu-149	93.1 d	M	5.0 E-04	2.7 E-10	2.3 E-10	5.0 E-04	1.0 E-10
Eu-150	34.2 a	M	5.0 E-04	5.0 E-08	3.4 E-08	5.0 E-04	1.3 E-09
Eu-150	12.6 h	M	5.0 E-04	1.9 E-10	2.8 E-10	5.0 E-04	3.8 E-10
Eu-152	13.3 a	M	5.0 E-04	3.9 E-08	2.7 E-08	5.0 E-04	1.4 E-09
Eu-152m	9.32 h	M	5.0 E-04	2.2 E-10	3.2 E-10	5.0 E-04	5.0 E-10
Eu-154	8.80 a	M	5.0 E-04	5.0 E-08	3.5 E-08	5.0 E-04	2.0 E-09
Eu-155	4.96 a	M	5.0 E-04	6.5 E-09	4.7 E-09	5.0 E-04	3.2 E-10
Eu-156	15.2 d	M	5.0 E-04	3.3 E-09	3.0 E-09	5.0 E-04	2.2 E-09
Eu-157	15.1 h	M	5.0 E-04	3.2 E-10	4.4 E-10	5.0 E-04	6.0 E-10
Eu-158	0.765 h	M	5.0 E-04	4.8 E-11	7.5 E-11	5.0 E-04	9.4 E-11

Gadolinij							
Gd-145	0.382 h	F	5.0 E-04	1.5 E-11	2.6 E-11	5.0 E-04	4.4 E-11
		M	5.0 E-04	2.1 E-11	3.5 E-11		
Gd-146	48.3 d	F	5.0 E-04	4.4 E-09	5.2 E-09	5.0 E-04	9.6 E-10
		M	5.0 E-04	6.0 E-09	4.6 E-09		
Gd-147	1.59 d	F	5.0 E-04	2.7 E-10	4.5 E-10	5.0 E-04	6.1 E-10
		M	5.0 E-04	4.1 E-10	5.9 E-10		
Gd-148	93.0 a	F	5.0 E-04	2.5 E-05	3.0 E-05	5.0 E-04	5.5 E-08
		M	5.0 E-04	1.1 E-05	7.2 E-06		
Gd-149	9.40 d	F	5.0 E-04	2.6 E-10	4.5 E-10	5.0 E-04	4.5 E-10
		M	5.0 E-04	7.0 E-10	7.9 E-10		
Gd-151	120 d	F	5.0 E-04	7.8 E-10	9.3 E-10	5.0 E-04	2.0 E-10
		M	5.0 E-04	8.1 E-10	6.5 E-10		
Gd-152	1.08E+14 a	F	5.0 E-04	1.9 E-05	2.2 E-05	5.0 E-04	4.1 E-08
		M	5.0 E-04	7.4 E-06	5.0 E-06		
Gd-153	242 d	F	5.0 E-04	2.1 E-09	2.5 E-09	5.0 E-04	2.7 E-10
		M	5.0 E-04	1.9 E-09	1.4 E-09		
Gd-159	18.6 h	F	5.0 E-04	1.1 E-10	1.8 E-10	5.0 E-04	4.9 E-10
		M	5.0 E-04	2.7 E-10	3.9 E-10		
Terbij							
Tb-147	1.65 h	M	5.0 E-04	7.9 E-11	1.2 E-10	5.0 E-04	1.6 E-10
Tb-149	4.15 h	M	5.0 E-04	4.3 E-09	3.1 E-09	5.0 E-04	2.5 E-10
Tb-150	3.27 h	M	5.0 E-04	1.1 E-10	1.8 E-10	5.0 E-04	2.5 E-10
Tb-151	17.6 h	M	5.0 E-04	2.3 E-10	3.3 E-10	5.0 E-04	3.4 E-10
Tb-153	2.34 d	M	5.0 E-04	2.0 E-10	2.4 E-10	5.0 E-04	2.5 E-10
Tb-154	21.4 h	M	5.0 E-04	3.8 E-10	6.0 E-10	5.0 E-04	6.5 E-10
Tb-155	5.32 d	M	5.0 E-04	2.1 E-10	2.5 E-10	5.0 E-04	2.1 E-10
Tb-156	5.34 d	M	5.0 E-04	1.2 E-09	1.4 E-09	5.0 E-04	1.2 E-09
Tb-156m	1.02 d	M	5.0 E-04	2.0 E-10	2.3 E-10	5.0 E-04	1.7 E-10
Tb-156m	5.00 h	M	5.0 E-04	9.2 E-11	1.3 E-10	5.0 E-04	8.1 E-11
Tb-157	1.50E+02 a	M	5.0 E-04	1.1 E-09	7.9 E-10	5.0 E-04	3.4 E-11
Tb-158	1.50E+02 a	M	5.0 E-04	4.3 E-08	3.0 E-08	5.0 E-04	1.1 E-09
Tb-160	72.3 d	M	5.0 E-04	6.6 E-09	5.4 E-09	5.0 E-04	1.6 E-09
Tb-161	6.91 d	M	5.0 E-04	1.2 E-09	1.2 E-09	5.0 E-04	7.2 E-10
Disprozij							
Dy-155	10.0 h	M	5.0 E-04	8.0 E-11	1.2 E-10	5.0 E-04	1.3 E-10
Dy-157	8.10 h	M	5.0 E-04	3.2 E-11	5.5 E-11	5.0 E-04	6.1 E-11
Dy-159	144 d	M	5.0 E-04	3.5 E-10	2.5 E-10	5.0 E-04	1.0 E-10
Dy-165	2.33 h	M	5.0 E-04	6.1 E-11	8.7 E-11	5.0 E-04	1.1 E-10
Dy-166	3.40 d	M	5.0 E-04	1.8 E-09	1.8 E-09	5.0 E-04	1.6 E-09
Holmij							
Ho-155	0.800 h	M	5.0 E-04	2.0 E-11	3.2 E-11	5.0 E-04	3.7 E-11
Ho-157	0.210 h	M	5.0 E-04	4.5 E-12	7.6 E-12	5.0 E-04	6.5 E-12
Ho-159	0.550 h	M	5.0 E-04	6.3 E-12	1.0 E-11	5.0 E-04	7.9 E-12
Ho-161	2.50 h	M	5.0 E-04	6.3 E-12	1.0 E-11	5.0 E-04	1.3 E-11
Ho-162	0.250 h	M	5.0 E-04	2.9 E-12	4.5 E-12	5.0 E-04	3.3 E-12
Ho-162m	1.13 h	M	5.0 E-04	2.2 E-11	3.3 E-11	5.0 E-04	2.6 E-11
Ho-164	0.483 h	M	5.0 E-04	8.6 E-12	1.3 E-11	5.0 E-04	9.5 E-12
Ho-164m	0.625 h	M	5.0 E-04	1.2 E-11	1.6 E-11	5.0 E-04	1.6 E-11

Ho-166	1.12 d	M	5.0 E-04	6.6 E-10	8.3 E-10	5.0 E-04	1.4 E-09
Ho-166m	1.20E+03 a	M	5.0 E-04	1.1 E-07	7.8 E-08	5.0 E-04	2.0 E-09
Ho-167	3.10 h	M	5.0 E-04	7.1 E-11	1.0 E-10	5.0 E-04	8.3 E-11
Erbij							
Er-161	3.24 h	M	5.0 E-04	5.1 E-11	8.5 E-11	5.0 E-04	8.0 E-11
Er-165	10.4 h	M	5.0 E-04	8.3 E-12	1.4 E-11	5.0 E-04	1.9 E-11
Er-169	9.30 d	M	5.0 E-04	9.8 E-10	9.2 E-10	5.0 E-04	3.7 E-10
Er-171	7.52 h	M	5.0 E-04	2.2 E-10	3.0 E-10	5.0 E-04	3.6 E-10
Er-172	2.05 d	M	5.0 E-04	1.1 E-09	1.2 E-09	5.0 E-04	1.0 E-09
Tulij							
Tm-162	0.362 h	M	5.0 E-04	1.6 E-11	2.7 E-11	5.0 E-04	2.9 E-11
Tm-166	7.70 h	M	5.0 E-04	1.8 E-10	2.8 E-10	5.0 E-04	2.8 E-10
Tm-167	9.24 d	M	5.0 E-04	1.1 E-09	1.0 E-09	5.0 E-04	5.6 E-10
Tm-170	129 d	M	5.0 E-04	6.6 E-09	5.2 E-09	5.0 E-04	1.3 E-09
Tm-171	1.92 a	M	5.0 E-04	1.3 E-09	9.1 E-10	5.0 E-04	1.1 E-10
Tm-172	2.65 d	M	5.0 E-04	1.1 E-09	1.4 E-09	5.0 E-04	1.7 E-09
Tm-173	8.24 h	M	5.0 E-04	1.8 E-10	2.6 E-10	5.0 E-04	3.1 E-10
Tm-175	0.253 h	M	5.0 E-04	1.9 E-11	3.1 E-11	5.0 E-04	2.7 E-11
Iterbij							
Yb-162	0.315 h	M	5.0 E-04	1.4 E-11	2.2 E-11	5.0 E-04	2.3 E-11
		S	5.0 E-04	1.4 E-11	2.3 E-11		
Yb-166	2.36 d	M	5.0 E-04	7.2 E-10	9.1 E-10	5.0 E-04	9.5 E-10
		S	5.0 E-04	7.6 E-10	9.5 E-10		
Yb-167	0.292 h	M	5.0 E-04	6.5 E-12	9.0 E-12	5.0 E-04	6.7 E-12
		S	5.0 E-04	6.9 E-12	9.5 E-12		
Yb-169	32.0 d	M	5.0 E-04	2.4 E-09	2.1 E-09	5.0 E-04	7.1 E-10
		S	5.0 E-04	2.8 E-09	2.4 E-09		
Yb-175	4.19 d	M	5.0 E-04	6.3 E-10	6.4 E-10	5.0 E-04	4.4 E-10
		S	5.0 E-04	7.0 E-10	7.0 E-10		
Yb-177	1.90 h	M	5.0 E-04	6.4 E-11	8.8 E-11	5.0 E-04	9.7 E-11
		S	5.0 E-04	6.9 E-11	9.4 E-11		
Yb-178	1.23 h	M	5.0 E-04	7.1 E-11	1.0 E-10	5.0 E-04	1.2 E-10
		S	5.0 E-04	7.6 E-11	1.1 E-10		
Lutecij							
Lu-169	1.42 d	M	5.0 E-04	3.5 E-10	4.7 E-10	5.0 E-04	4.6 E-10
		S	5.0 E-04	3.8 E-10	4.9 E-10		
Lu-170	2.00 d	M	5.0 E-04	6.4 E-10	9.3 E-10	5.0 E-04	9.9 E-10
		S	5.0 E-04	6.7 E-10	9.5 E-10		
Lu-171	8.22 d	M	5.0 E-04	7.6 E-10	8.8 E-10	5.0 E-04	6.7 E-10
		S	5.0 E-04	8.3 E-10	9.3 E-10		
Lu-172	6.70 d	M	5.0 E-04	1.4 E-09	1.7 E-09	5.0 E-04	1.3 E-09
		S	5.0 E-04	1.5 E-09	1.8 E-09		
Lu-173	1.37 a	M	5.0 E-04	2.0 E-09	1.5 E-09	5.0 E-04	2.6 E-10
		S	5.0 E-04	2.3 E-09	1.4 E-09		
Lu-174	3.31 a	M	5.0 E-04	4.0 E-09	2.9 E-09	5.0 E-04	2.7 E-10
		S	5.0 E-04	3.9 E-09	2.5 E-09		
Lu-174m	142 d	M	5.0 E-04	3.4 E-09	2.4 E-09	5.0 E-04	5.3 E-10
		S	5.0 E-04	3.8 E-09	2.6 E-09		

Lu-176	3.60E+10 a	M	5.0 E-04	6.6 E-08	4.6 E-08	5.0 E-04	1.8 E-09
		S	5.0 E-04	5.2 E-08	3.0 E-08		
Lu-176m	3.68 h	M	5.0 E-04	1.1 E-10	1.5 E-10	5.0 E-04	1.7 E-10
		S	5.0 E-04	1.2 E-10	1.6 E-10		
Lu-177	6.71 d	M	5.0 E-04	1.0 E-09	1.0 E-09	5.0 E-04	5.3 E-10
		S	5.0 E-04	1.1 E-09	1.1 E-09		
Lu-177m	161 d	M	5.0 E-04	1.2 E-08	1.0 E-08	5.0 E-04	1.7 E-09
		S	5.0 E-04	1.5 E-08	1.2 E-08		
Lu-178	0.473 h	M	5.0 E-04	2.5 E-11	3.9 E-11	5.0 E-04	4.7 E-11
		S	5.0 E-04	2.6 E-11	4.1 E-11		
Lu-178m	0.378 h	M	5.0 E-04	3.3 E-11	5.4 E-11	5.0 E-04	3.8 E-11
		S	5.0 E-04	3.5 E-11	5.6 E-11		
Lu-179	4.59 h	M	5.0 E-04	1.1 E-10	1.6 E-10	5.0 E-04	2.1 E-10
		S	5.0 E-04	1.2 E-10	1.6 E-10		
Hafnij							
Hf-170	16.0 h	F	0.002	1.7 E-10	2.9 E-10	0.002	4.8 E-10
		M	0.002	3.2 E-10	4.3 E-10		
Hf-172	1.87 a	F	0.002	3.2 E-08	3.7 E-08	0.002	1.0 E-09
		M	0.002	1.9 E-08	1.3 E-08		
Hf-173	24.0 h	F	0.002	7.9 E-11	1.3 E-10	0.002	2.3 E-10
		M	0.002	1.6 E-10	2.2 E-10		
Hf-175	70.0 d	F	0.002	7.2 E-10	8.7 E-10	0.002	4.1 E-10
		M	0.002	1.1 E-09	8.8 E-10		
Hf-177m	0.856 h	F	0.002	4.7 E-11	8.4 E-11	0.002	8.1 E-11
		M	0.002	9.2 E-11	1.5 E-10		
Hf-178m	31.0 a	F	0.002	2.6 E-07	3.1 E-07	0.002	4.7 E-09
		M	0.002	1.1 E-07	7.8 E-08		
Hf-179m	25.1 d	F	0.002	1.1 E-09	1.4 E-09	0.002	1.2 E-09
		M	0.002	3.6 E-09	3.2 E-09		
Hf-180m	5.50 h	F	0.002	6.4 E-11	1.2 E-10	0.002	1.7 E-10
		M	0.002	1.4 E-10	2.0 E-10		
Hf-181	42.4 d	F	0.002	1.4 E-09	1.8 E-09	0.002	1.1 E-09
		M	0.002	4.7 E-09	4.1 E-09		
Hf-182	9.00E+06 a	F	0.002	3.0 E-07	3.6 E-07	0.002	3.0 E-09
		M	0.002	1.2 E-07	8.3 E-08		
Hf-182m	1.02 h	F	0.002	2.3 E-11	4.0 E-11	0.002	4.2 E-11
		M	0.002	4.7 E-11	7.1 E-11		
Hf-183	1.07 h	F	0.002	2.6 E-11	4.4 E-11	0.002	7.3 E-11
		M	0.002	5.8 E-11	8.3 E-11		
Hf-184	4.12 h	F	0.002	1.3 E-10	2.3 E-10	0.002	5.2 E-10
		M	0.002	3.3 E-10	4.5 E-10		
Tantal							
Ta-172	0.613 h	M	0.001	3.4 E-11	5.5 E-11	0.001	5.3 E-11
		S	0.001	3.6 E-11	5.7 E-11		
Ta-173	3.65 h	M	0.001	1.1 E-10	1.6 E-10	0.001	1.9 E-10
		S	0.001	1.2 E-10	1.6 E-10		
Ta-174	1.20 h	M	0.001	4.2 E-11	6.3 E-11	0.001	5.7 E-11
		S	0.001	4.4 E-11	6.6 E-11		
Ta-175	10.5 h	M	0.001	1.3 E-10	2.0 E-10	0.001	2.1 E-10
		S	0.001	1.4 E-10	2.0 E-10		

Ta-176	8.08 h	M	0.001	2.0 E-10	3.2 E-10	0.001	3.1 E-10
		S	0.001	2.1 E-10	3.3 E-10		
Ta-177	2.36 d	M	0.001	9.3 E-11	1.2 E-10	0.001	1.1 E-10
		S	0.001	1.0 E-10	1.3 E-10		
Ta-178	2.20 h	M	0.001	6.6 E-11	1.0 E-10	0.001	7.8 E-11
		S	0.001	6.9 E-11	1.1 E-10		
Ta-179	1.82 a	M	0.001	2.0 E-10	1.3 E-10	0.001	6.5 E-11
		S	0.001	5.2 E-10	2.9 E-10		
Ta-180	1.00E+13 a	M	0.001	6.0 E-09	4.6 E-09	0.001	8.4 E-10
		S	0.001	2.4 E-08	1.4 E-08		
Ta-180m	8.10 h	M	0.001	4.4 E-11	5.8 E-11	0.001	5.4 E-11
		S	0.001	4.7 E-11	6.2 E-11		
Ta-182	115 d	M	0.001	7.2 E-09	5.8 E-09	0.001	1.5 E-09
		S	0.001	9.7 E-09	7.4 E-09		
Ta-182m	0.264 h	M	0.001	2.1 E-11	3.4 E-11	0.001	1.2 E-11
		S	0.001	2.2 E-11	3.6 E-11		
Ta-183	5.10 d	M	0.001	1.8 E-09	1.8 E-09	0.001	1.3 E-09
		S	0.001	2.0 E-09	2.0 E-09		
Ta-184	8.70 h	M	0.001	4.1 E-10	6.0 E-10	0.001	6.8 E-10
		S	0.001	4.4 E-10	6.3 E-10		
Ta-185	0.816 h	M	0.001	4.6 E-11	6.8 E-11	0.001	6.8 E-11
		S	0.001	4.9 E-11	7.2 E-11		
Ta-186	0.175 h	M	0.001	1.8 E-11	3.0 E-11	0.001	3.3 E-11
		S	0.001	1.9 E-11	3.1 E-11		
Volfram							
W-176	2.30 h	F	0.300	4.4 E-11	7.6 E-11	0.300	1.0 E-10
						0.010	1.1 E-10
W-177	2.25 h	F	0.300	2.6 E-11	4.6 E-11	0.300	5.8 E-11
						0.010	6.1 E-11
W-178	21.7 d	F	0.300	7.6 E-11	1.2 E-10	0.300	2.2 E-10
						0.010	2.5 E-10
W-179	0.625 h	F	0.300	9.9 E-13	1.8 E-12	0.300	3.3 E-12
						0.010	3.3 E-12
W-181	121 d	F	0.300	2.8 E-11	4.3 E-11	0.300	7.6 E-11
						0.010	8.2 E-11
W-185	75.1 d	F	0.300	1.4 E-10	2.2 E-10	0.300	4.4 E-10
						0.010	5.0 E-10
W-187	23.9 h	F	0.300	2.0 E-10	3.3 E-10	0.300	6.3 E-10
						0.010	7.1 E-10
W-188	69.4 d	F	0.300	5.9 E-10	8.4 E-10	0.300	2.1 E-09
						0.010	2.3 E-09
Renij							
Re-177	0.233 h	F	0.800	1.0 E-11	1.7 E-11	0.800	2.2 E-11
		M	0.800	1.4 E-11	2.2 E-11		
Re-178	0.220 h	F	0.800	1.1 E-11	1.8 E-11	0.800	2.5 E-11
		M	0.800	1.5 E-11	2.4 E-11		
Re-181	20.0 h	F	0.800	1.9 E-10	3.0 E-10	0.800	4.2 E-10
		M	0.800	2.5 E-10	3.7 E-10		
Re-182	2.67 d	F	0.800	6.8 E-10	1.1 E-09	0.800	1.4 E-09
		M	0.800	1.3 E-09	1.7 E-09		

Re-182	12.7 h	F	0.800	1.5 E-10	2.4 E-10	0.800	2.7 E-10
		M	0.800	2.0 E-10	3.0 E-10		
Re-184	38.0 d	F	0.800	4.6 E-10	7.0 E-10	0.800	1.0 E-09
		M	0.800	1.8 E-09	1.8 E-09		
Re-184m	165 d	F	0.800	6.1 E-10	8.8 E-10	0.800	1.5 E-09
		M	0.800	6.1 E-09	4.8 E-09		
Re-186	3.78 d	F	0.800	5.3 E-10	7.3 E-10	0.800	1.5 E-09
		M	0.800	1.1 E-09	1.2 E-09		
Re-186m	2.00E+05 a	F	0.800	8.5 E-10	1.2 E-09	0.800	2.2 E-09
		M	0.800	1.1 E-08	7.9 E-09		
Re-187	5.00E+10 a	F	0.800	1.9 E-12	2.6 E-12	0.800	5.1 E-12
		M	0.800	6.0 E-12	4.6 E-12		
Re-188	17.0 h	F	0.800	4.7 E-10	6.6 E-10	0.800	1.4 E-09
		M	0.800	5.5 E-10	7.4 E-10		
Re-188m	0.310 h	F	0.800	1.0 E-11	1.6 E-11	0.800	3.0 E-11
		M	0.800	1.4 E-11	2.0 E-11		
Re-189	1.01 d	F	0.800	2.7 E-10	4.3 E-10	0.800	7.8 E-10
		M	0.800	4.3 E-10	6.0 E-10		
Osmij							
Os-180	0.366 h	F	0.010	8.8 E-12	1.6 E-11	0.010	1.7 E-11
		M	0.010	1.4 E-11	2.4 E-11		
		S	0.010	1.5 E-11	2.5 E-11		
Os-181	1.75 h	F	0.010	3.6 E-11	6.4 E-11	0.010	8.9 E-11
		M	0.010	6.3 E-11	9.6 E-11		
		S	0.010	6.6 E-11	1.0 E-10		
Os-182	22.0 h	F	0.010	1.9 E-10	3.2 E-10	0.010	5.6 E-10
		M	0.010	3.7 E-10	5.0 E-10		
		S	0.010	3.9 E-10	5.2 E-10		
Os-185	94.0 d	F	0.010	1.1 E-09	1.4 E-09	0.010	5.1 E-10
		M	0.010	1.2 E-09	1.0 E-09		
		S	0.010	1.5 E-09	1.1 E-09		
Os-189m	6.00 h	F	0.010	2.7 E-12	5.2 E-12	0.010	1.8 E-11
		M	0.010	5.1 E-12	7.6 E-12		
		S	0.010	5.4 E-12	7.9 E-12		
Os-191	15.4 d	F	0.010	2.5 E-10	3.5 E-10	0.010	5.7 E-10
		M	0.010	1.5 E-09	1.3 E-09		
		S	0.010	1.8 E-09	1.5 E-09		
Os-191m	13.0 h	F	0.010	2.6 E-11	4.1 E-11	0.010	9.6 E-11
		M	0.010	1.3 E-10	1.3 E-10		
		S	0.010	1.5 E-10	1.4 E-10		
Os-193	1.25 d	F	0.010	1.7 E-10	2.8 E-10	0.010	8.1 E-10
		M	0.010	4.7 E-10	6.4 E-10		
		S	0.010	5.1 E-10	6.8 E-10		
Os-194	6.00 a	F	0.010	1.1 E-08	1.3 E-08	0.010	2.4 E-09
		M	0.010	2.0 E-08	1.3 E-08		
		S	0.010	7.9 E-08	4.2 E-08		
Iridij							
Ir-182	0.250 h	F	0.010	1.5 E-11	2.6 E-11	0.010	4.8 E-11
		M	0.010	2.4 E-11	3.9 E-11		

Ir-184	3.02 h	S	0.010	2.5 E-11	4.0 E-11	0.010	1.7 E-10
		F	0.010	6.7 E-11	1.2 E-10		
		M	0.010	1.1 E-10	1.8 E-10		
Ir-185	14.0 h	S	0.010	1.2 E-10	1.9 E-10	0.010	2.6 E-10
		F	0.010	8.8 E-11	1.5 E-10		
		M	0.010	1.8 E-10	2.5 E-10		
Ir-186	15.8 h	S	0.010	1.9 E-10	2.6 E-10	0.010	4.9 E-10
		F	0.010	1.8 E-10	3.3 E-10		
		M	0.010	3.2 E-10	4.8 E-10		
Ir-186	1.75 h	S	0.010	3.3 E-10	5.0 E-10	0.010	6.1 E-11
		F	0.010	2.5 E-11	4.5 E-11		
		M	0.010	4.3 E-11	6.9 E-11		
Ir-187	10.5 h	S	0.010	4.5 E-11	7.1 E-11	0.010	1.2 E-10
		F	0.010	4.0 E-11	7.2 E-11		
		M	0.010	7.5 E-11	1.1 E-10		
Ir-188	1.73 d	S	0.010	7.9 E-11	1.2 E-10	0.010	6.3 E-10
		F	0.010	2.6 E-10	4.4 E-10		
		M	0.010	4.1 E-10	6.0 E-10		
Ir-189	13.3 d	S	0.010	4.3 E-10	6.2 E-10	0.010	2.4 E-10
		F	0.010	1.1 E-10	1.7 E-10		
		M	0.010	4.8 E-10	4.1 E-10		
Ir-190	12.1 d	S	0.010	5.5 E-10	4.6 E-10	0.010	1.2 E-09
		F	0.010	7.9 E-10	1.2 E-09		
		M	0.010	2.0 E-09	2.3 E-09		
Ir-190m	3.10 h	S	0.010	2.3 E-09	2.5 E-09	0.010	1.2 E-10
		F	0.010	5.3 E-11	9.7 E-11		
		M	0.010	8.3 E-11	1.4 E-10		
Ir-190m	1.20 h	S	0.010	8.6 E-11	1.4 E-10	0.010	8.0 E-12
		F	0.010	3.7 E-12	5.6 E-12		
		M	0.010	9.0 E-12	1.0 E-11		
Ir-192	74.0 d	S	0.010	1.0 E-11	1.1 E-11	0.010	1.4 E-09
		F	0.010	1.8 E-09	2.2 E-09		
		M	0.010	4.9 E-09	4.1 E-09		
Ir-192m	2.41E+02 a	S	0.010	6.2 E-09	4.9 E-09	0.010	3.1 E-10
		F	0.010	4.8 E-09	5.6 E-09		
		M	0.010	5.4 E-09	3.4 E-09		
Ir-193m	11.9 d	S	0.010	3.6 E-08	1.9 E-08	0.010	2.7 E-10
		F	0.010	1.0 E-10	1.6 E-10		
		M	0.010	1.0 E-09	9.1 E-10		
Ir-194	19.1 h	S	0.010	1.2 E-09	1.0 E-09	0.010	1.3 E-09
		F	0.010	2.2 E-10	3.6 E-10		
		M	0.010	5.3 E-10	7.1 E-10		
Ir-194m	171 d	S	0.010	5.6 E-10	7.5 E-10	0.010	2.1 E-09
		F	0.010	5.4 E-09	6.5 E-09		
		M	0.010	8.5 E-09	6.5 E-09		
Ir-195	2.50 h	S	0.010	1.2 E-08	8.2 E-09	0.010	1.0 E-10
		F	0.010	2.6 E-11	4.5 E-11		
		M	0.010	6.7 E-11	9.6 E-11		
Ir-195m	3.80 h	S	0.010	7.2 E-11	1.0 E-10	0.010	2.1 E-10
		F	0.010	6.5 E-11	1.1 E-10		
		M	0.010	1.6 E-10	2.3 E-10		
		S	0.010	1.7 E-10	2.4 E-10		

Platina							
Pt-186	2.00 h	F	0.010	3.6 E-11	6.6 E-11	0.010	9.3 E-11
Pt-188	10.2 d	F	0.010	4.3 E-10	6.3 E-10	0.010	7.6 E-10
Pt-189	10.9 h	F	0.010	4.1 E-11	7.3 E-11	0.010	1.2 E-10
Pt-191	2.80 d	F	0.010	1.1 E-10	1.9 E-10	0.010	3.4 E-10
Pt-193	50.0 a	F	0.010	2.1 E-11	2.7 E-11	0.010	3.1 E-11
Pt-193m	4.33 d	F	0.010	1.3 E-10	2.1 E-10	0.010	4.5 E-10
Pt-195m	4.02 d	F	0.010	1.9 E-10	3.1 E-10	0.010	6.3 E-10
Pt-197	18.3 h	F	0.010	9.1 E-11	1.6 E-10	0.010	4.0 E-10
Pt-197m	1.57 h	F	0.010	2.5 E-11	4.3 E-11	0.010	8.4 E-11
Pt-199	0.513 h	F	0.010	1.3 E-11	2.2 E-11	0.010	3.9 E-11
Pt-200	12.5 h	F	0.010	2.4 E-10	4.0 E-10	0.010	1.2 E-09
Zlato							
Au-193	17.6 h	F	0.100	3.9 E-11	7.1 E-11	0.100	1.3 E-10
		M	0.100	1.1 E-10	1.5 E-10		
		S	0.100	1.2 E-10	1.6 E-10		
Au-194	1.64 d	F	0.100	1.5 E-10	2.8 E-10	0.100	4.2 E-10
		M	0.100	2.4 E-10	3.7 E-10		
		S	0.100	2.5 E-10	3.8 E-10		
Au-195	183 d	F	0.100	7.1 E-11	1.2 E-10	0.100	2.5 E-10
		M	0.100	1.0 E-09	8.0 E-10		
		S	0.100	1.6 E-09	1.2 E-09		
Au-198	2.69 d	F	0.100	2.3 E-10	3.9 E-10	0.100	1.0 E-09
		M	0.100	7.6 E-10	9.8 E-10		
		S	0.100	8.4 E-10	1.1 E-09		
Au-198m	2.30 d	F	0.100	3.4 E-10	5.9 E-10	0.100	1.3 E-09
		M	0.100	1.7 E-09	2.0 E-09		
		S	0.100	1.9 E-09	1.9 E-09		
Au-199	3.14 d	F	0.100	1.1 E-10	1.9 E-10	0.100	4.4 E-10
		M	0.100	6.8 E-10	6.8 E-10		
		S	0.100	7.5 E-10	7.6 E-10		
Au-200	0.807 h	F	0.100	1.7 E-11	3.0 E-11	0.100	6.8 E-11
		M	0.100	3.5 E-11	5.3 E-11		
		S	0.100	3.6 E-11	5.6 E-11		
Au-200m	18.7 h	F	0.100	3.2 E-10	5.7 E-10	0.100	1.1 E-09
		M	0.100	6.9 E-10	9.8 E-10		
		S	0.100	7.3 E-10	1.0 E-09		
Au-201	0.440 h	F	0.100	9.2 E-12	1.6 E-11	0.100	2.4 E-11
		M	0.100	1.7 E-11	2.8 E-11		
		S	0.100	1.8 E-11	2.9 E-11		
Živa							
Hg-193 (organska)	3.50 h	F	0.400	2.6 E-11	4.7 E-11	1.000	3.1 E-11
						0.400	6.6 E-11
Hg-193 (anorganska)	3.50 h	F	0.020	2.8 E-11	5.0 E-11	0.020	8.2 E-11
						M	0.020
Hg-193m (organska)	11.1 h	F	0.400	1.1 E-10	2.0 E-10	1.000	1.3 E-10
						0.400	3.0 E-10
Hg-193m (anorganska)	11.1 h	F	0.020	1.2 E-10	2.3 E-10	0.020	4.0 E-10
						M	0.020
Hg-194	2.60E+02 a	F	0.400	1.5 E-08	1.9 E-08	1.000	5.1 E-08

(organska)						0.400	2.1 E-08
Hg-194	2.60E+02 a	F	0.020	1.3 E-08	1.5 E-08	0.020	1.4 E-09
(anorganska)		M	0.020	7.8 E-09	5.3 E-09		
Hg-195	9.90 h	F	0.400	2.4 E-11	4.4 E-11	1.000	3.4 E-11
(organska)						0.400	7.5 E-11
Hg-195	9.90 h	F	0.020	2.7 E-11	4.8 E-11	0.020	9.7 E-11
(anorganska)		M	0.020	7.2 E-11	9.2 E-11		
Hg-195m	1.73 d	F	0.400	1.3 E-10	2.2 E-10	1.000	2.2 E-10
(organska)						0.400	4.1 E-10
Hg-195m	1.73 d	F	0.020	1.5 E-10	2.6 E-10	0.020	5.6 E-10
(anorganska)		M	0.020	5.1 E-10	6.5 E-10		
Hg-197	2.67 d	F	0.400	5.0 E-11	8.5 E-11	1.000	9.9 E-11
(organska)						0.400	1.7 E-10
Ha-197	2.67 d	F	0.020	6.0 E-11	1.0 E-10	0.020	2.3 E-10
(anorganska)		M	0.020	2.9 E-10	2.8 E-10		
Hg-197m	23.8 h	F	0.400	1.0 E-10	1.8 E-10	1.000	1.5 E-10
(organska)						0.400	3.4 E-10
Hg-197m	23.8 h	F	0.020	1.2 E-10	2.1 E-10	0.020	4.7 E-10
(anorganska)		M	0.020	5.1 E-10	6.6 E-10		
Hg-199m	0.710 h	F	0.400	1.6 E-11	2.7 E-11	1.000	2.8 E-11
(organska)						0.400	3.1 E-11
Hg-199m	0.710 h	F	0.020	1.6 E-11	2.7 E-11	0.020	3.1 E-11
(anorganska)		M	0.020	3.3 E-11	5.2 E-11		
Hg-203	46.6 d	F	0.400	5.7 E-10	7.5 E-10	1.000	1.9 E-09
(organska)						0.400	1.1 E-09
Hg-203	46.6 d	F	0.020	4.7 E-10	5.9 E-10	0.020	5.4 E-10
(anorganska)		M	0.020	2.3 E-09	1.9 E-09		
Talij							
Tl-194	0.550 h	F	1.000	4.8 E-12	8.9 E-12	1.000	8.1 E-12
Tl-194m	0.546 h	F	1.000	2.0 E-11	3.6 E-11	1.000	4.0 E-11
Tl-195	1.16 h	F	1.000	1.6 E-11	3.0 E-11	1.000	2.7 E-11
Tl-197	2.84 h	F	1.000	1.5 E-11	2.7 E-11	1.000	2.3 E-11
Tl-198	5.30 h	F	1.000	6.6 E-11	1.2 E-10	1.000	7.3 E-11
Tl-198m	1.87 h	F	1.000	4.0 E-11	7.3 E-11	1.000	5.4 E-11
Tl-199	7.42 h	F	1.000	2.0 E-11	3.7 E-11	1.000	2.6 E-11
Tl-200	1.09 d	F	1.000	1.4 E-10	2.5 E-10	1.000	2.0 E-10
Tl-201	3.04 d	F	1.000	4.7 E-11	7.6 E-11	1.000	9.5 E-11
Tl-202	12.2 d	F	1.000	2.0 E-10	3.1 E-10	1.000	4.5 E-10
Tl-204	3.78 a	F	1.000	4.4 E-10	6.2 E-10	1.000	1.3 E-09
Olovo							
Pb-195m	0.263 h	F	0.200	1.7 E-11	3.0 E-11	0.200	2.9 E-11
Pb-198	2.40 h	F	0.200	4.7 E-11	8.7 E-11	0.200	1.0 E-10
Pb-199	1.50 h	F	0.200	2.6 E-11	4.8 E-11	0.200	5.4 E-11
Pb-200	21.5 h	F	0.200	1.5 E-10	2.6 E-10	0.200	4.0 E-10
Pb-201	9.40 h	F	0.200	6.5 E-11	1.2 E-10	0.200	1.6 E-10
Pb-202	3.00E+05 a	F	0.200	1.1 E-08	1.4 E-08	0.200	8.7 E-09
Pb-202m	3.62 h	F	0.200	6.7 E-11	1.2 E-10	0.200	1.3 E-10
Pb-203	2.17 d	F	0.200	9.1 E-11	1.6 E-10	0.200	2.4 E-10
Pb-205	1.43E+07 a	F	0.200	3.4 E-10	4.1 E-10	0.200	2.8 E-10
Pb-209	3.25 h	F	0.200	1.8 E-11	3.2 E-11	0.200	5.7 E-11

Pb-210	22.3 a	F	0.200	8.9 E-07	1.1 E-06	0.200	6.8 E-07
Pb-211	0.601 h	F	0.200	3.9 E-09	5.6 E-09	0.200	1.8 E-10
Pb-212	10.6 h	F	0.200	1.9 E-08	3.3 E-08	0.200	5.9 E-09
Pb-214	0.447 h	F	0.200	2.9 E-09	4.8 E-09	0.200	1.4 E-10
Bizmut							
Bi-200	0.606 h	F	0.050	2.4 E-11	4.2 E-11	0.050	5.1 E-11
		M	0.050	3.4 E-11	5.6 E-11		
Bi-201	1.80 h	F	0.050	4.7 E-11	8.3 E-11	0.050	1.2 E-10
		M	0.050	7.0 E-11	1.1 E-10		
Bi-202	1.67 h	F	0.050	4.6 E-11	8.4 E-11	0.050	8.9 E-11
		M	0.050	5.8 E-11	1.0 E-10		
Bi-203	11.8 h	F	0.050	2.0 E-10	3.6 E-10	0.050	4.8 E-10
		M	0.050	2.8 E-10	4.5 E-10		
Bi-205	15.3 d	F	0.050	4.0 E-10	6.8 E-10	0.050	9.0 E-10
		M	0.050	9.2 E-10	1.0 E-09		
Bi-206	6.24 d	F	0.050	7.9 E-10	1.3 E-09	0.050	1.9 E-09
		M	0.050	1.7 E-09	2.1 E-09		
Bi-207	38.0 a	F	0.050	5.2 E-10	8.4 E-10	0.050	1.3 E-09
		M	0.050	5.2 E-09	3.2 E-09		
Bi-210	5.01 d	F	0.050	1.1 E-09	1.4 E-09	0.050	1.3 E-09
		M	0.050	8.4 E-08	6.0 E-08		
Bi-210m	3.00E+06 a	F	0.050	4.5 E-08	5.3 E-08	0.050	1.5 E-08
		M	0.050	3.1 E-06	2.1 E-06		
Bi-212	1.01 h	F	0.050	9.3 E-09	1.5 E-08	0.050	2.6 E-10
		M	0.050	3.0 E-08	3.9 E-08		
Bi-213	0.761 h	F	0.050	1.1 E-08	1.8 E-08	0.050	2.0 E-10
		M	0.050	2.9 E-08	4.1 E-08		
Bi-214	0.332 h	F	0.050	7.2 E-09	1.2 E-08	0.050	1.1 E-10
		M	0.050	1.4 E-08	2.1 E-08		
Polonij							
Po-203	0.612 h	F	0.100	2.5 E-11	4.5 E-11	0.100	5.2 E-11
		M	0.100	3.6 E-11	6.1 E-11		
Po-205	1.80 h	F	0.100	3.5 E-11	6.0 E-11	0.100	5.9 E-11
		M	0.100	6.4 E-11	8.9 E-11		
Po-207	5.83 h	F	0.100	6.3 E-11	1.2 E-10	0.100	1.4 E-10
		M	0.100	8.4 E-11	1.5 E-10		
Po-210	138 d	F	0.100	6.0 E-07	7.1 E-07	0.100	2.4 E-07
		M	0.100	3.0 E-06	2.2 E-06		
Astacij							
At-207	1.80 h	F	1.000	3.5 E-10	4.4 E-10	1.000	2.3 E-10
		M	1.000	2.1 E-09	1.9 E-09		
At-211	7.21 h	F	1.000	1.6 E-08	2.7 E-08	1.000	1.1 E-08
		M	1.000	9.8 E-08	1.1 E-07		
Francij							
Fr-222	0.240 h	F	1.000	1.4 E-08	2.1 E-08	1.000	7.1 E-10
Fr-223	0.363 h	F	1.000	9.1 E-10	1.3 E-09	1.000	2.3 E-09

Radij							
Ra-223	11.4 d	M	0.200	6.9 E-06	5.7 E-06	0.200	1.0 E-07
Ra-224	3.66 d	M	0.200	2.9 E-06	2.4 E-06	0.200	6.5 E-08
Ra-225	14.8 d	M	0.200	5.8 E-06	4.8 E-06	0.200	9.5 E-08
Ra-226	1.60E+03 a	M	0.200	3.2 E-06	2.2 E-06	0.200	2.8 E-07
Ra-227	0.703 h	M	0.200	2.8 E-10	2.1 E-10	0.200	8.4 E-11
Ra-228	5.75 a	M	0.200	2.6 E-06	1.7 E-06	0.200	6.7 E-07
Aktinij							
Ac-224	2.90 h	F	5.0 E-04	1.1 E-08	1.3 E-08	5.0 E-04	7.0 E-10
		M	5.0 E-04	1.0 E-07	8.9 E-08		
		S	5.0 E-04	1.2 E-07	9.9 E-08		
Ac-225	10.0 d	F	5.0 E-04	8.7 E-07	1.0 E-06	5.0 E-04	2.4 E-08
		M	5.0 E-04	6.9 E-06	5.7 E-06		
		S	5.0 E-04	7.9 E-06	6.5 E-06		
Ac-226	1.21 d	F	5.0 E-04	9.5 E-08	2.2 E-07	5.0 E-04	1.0 E-08
		M	5.0 E-04	1.1 E-06	9.2 E-07		
		S	5.0 E-04	1.2 E-06	1.0 E-06		
Ac-227	21.8 a	F	5.0 E-04	5.4 E-04	6.3 E-04	5.0 E-04	1.1 E-06
		M	5.0 E-04	2.1 E-04	1.5 E-04		
		S	5.0 E-04	6.6 E-05	4.7 E-05		
Ac-228	6.13 h	F	5.0 E-04	2.5 E-08	2.9 E-08	5.0 E-04	4.3 E-10
		M	5.0 E-04	1.6 E-08	1.2 E-08		
		S	5.0 E-04	1.4 E-08	1.2 E-08		
Torij							
Th-226	0.515 h	M	5.0 E-04	5.5 E-08	7.4 E-08	5.0 E-04	3.5 E-10
		S	2.0 E-04	5.9 E-08	7.8 E-08	2.0 E-04	3.6 E-10
Th-227	18.7 d	M	5.0 E-04	7.8 E-06	6.2 E-06	5.0 E-04	8.9 E-09
		S	2.0 E-04	9.6 E-06	7.6 E-06	2.0 E-04	8.4 E-09
Th-228	1.91 a	M	5.0 E-04	3.1 E-05	2.3 E-05	5.0 E-04	7.0 E-08
		S	2.0 E-04	3.9 E-05	3.2 E-05	2.0 E-04	3.5 E-08
Th-229	7.34E+03 a	M	5.0 E-04	9.9 E-05	6.9 E-05	5.0 E-04	4.8 E-07
		S	2.0 E-04	6.5 E-05	4.8 E-05	2.0 E-04	2.0 E-07
Th-230	7.70E+04 a	M	5.0 E-04	4.0 E-05	2.8 E-05	5.0 E-04	2.1 E-07
		S	2.0 E-04	1.3 E-05	7.2 E-06	2.0 E-04	8.7 E-08
Th-231	1.06 d	M	5.0 E-04	2.9 E-10	3.7 E-10	5.0 E-04	3.4 E-10
		S	2.0 E-04	3.2 E-10	4.0 E-10	2.0 E-04	3.4 E-10
Th-232	1.40E+10 a	M	5.0 E-04	4.2 E-05	2.9 E-05	5.0 E-04	2.2 E-07
		S	2.0 E-04	2.3 E-05	1.2 E-05	2.0 E-04	9.2 E-08
Th-234	24.1 d	M	5.0 E-04	6.3 E-09	5.3 E-09	5.0 E-04	3.4 E-09
		S	2.0 E-04	7.3 E-09	5.8 E-09	2.0 E-04	3.4 E-09
Protaktinij							
Pa-227	0.638 h	M	5.0 E-04	7.0 E-08	9.0 E-08	5.0 E-04	4.5 E-10
		S	5.0 E-04	7.6 E-08	9.7 E-08		
Pa-228	22.0 h	M	5.0 E-04	5.9 E-08	4.6 E-08	5.0 E-04	7.8 E-10
		S	5.0 E-04	6.9 E-08	5.1 E-08		
Pa-230	17.4 d	M	5.0 E-04	5.6 E-07	4.6 E-07	5.0 E-04	9.2 E-10
		S	5.0 E-04	7.1 E-07	5.7 E-07		
Pa-231	3.27E+04 a	M	5.0 E-04	1.3 E-04	8.9 E-05	5.0 E-04	7.1 E-07
		S	5.0 E-04	3.2 E-05	1.7 E-05		

Pa-232	1.31 d	M	5.0 E-04	9.5 E-09	6.8 E-09	5.0 E-04	7.2 E-10
		S	5.0 E-04	3.2 E-09	2.0 E-09		
Pa-233	27.0 d	M	5.0 E-04	3.1 E-09	2.8 E-09	5.0 E-04	8.7 E-10
		S	5.0 E-04	3.7 E-09	3.2 E-09		
Pa-234	6.70 h	M	5.0 E-04	3.8 E-10	5.5 E-10	5.0 E-04	5.1 E-10
		S	5.0 E-04	4.0 E-10	5.8 E-10		
Uran							
U-230	20.8 d	F	0.020	3.6 E-07	4.2 E-07	0.020	5.5 E-08
		M	0.020	1.2 E-05	1.0 E-05	0.002	2.8 E-08
		S	0.002	1.5 E-05	1.2 E-05		
U-231	4.20 d	F	0.020	8.3 E-11	1.4 E-10	0.020	2.8 E-10
		M	0.020	3.4 E-10	3.7 E-10	0.002	2.8 E-10
		S	0.002	3.7 E-10	4.0 E-10		
U-232	72.0 a	F	0.020	4.0 E-06	4.7 E-06	0.020	3.3 E-07
		M	0.020	7.2 E-06	4.8 E-06	0.002	3.7 E-08
		S	0.002	3.5 E-05	2.6 E-05		
U-233	1.58E+05 a	F	0.020	5.7 E-07	6.6 E-07	0.020	5.0 E-08
		M	0.020	3.2 E-06	2.2 E-06	0.002	8.5 E-09
		S	0.002	8.7 E-06	6.9 E-06		
U-234	2.44E+05 a	F	0.020	5.5 E-07	6.4 E-07	0.020	4.9 E-08
		M	0.020	3.1 E-06	2.1 E-06	0.002	8.3 E-09
		S	0.002	8.5 E-06	6.8 E-06		
U-235	7.04E+08 a	F	0.020	5.1 E-07	6.0 E-07	0.020	4.6 E-08
		M	0.020	2.8 E-06	1.8 E-06	0.002	8.3 E-09
		S	0.002	7.7 E-06	6.1 E-06		
U-236	2.34E+07 a	F	0.020	5.2 E-07	6.1 E-07	0.020	4.6 E-08
		M	0.020	2.9 E-06	1.9 E-06	0.002	7.9 E-09
		S	0.002	7.9 E-06	6.3 E-06		
U-237	6.75 d	F	0.020	1.9 E-10	3.3 E-10	0.020	7.6 E-10
		M	0.020	1.6 E-09	1.5 E-09	0.002	7.7 E-10
		S	0.002	1.8 E-09	1.7 E-09		
U-238	4.47E+09 a	F	0.020	4.9 E-07	5.8 E-07	0.020	4.4 E-08
		M	0.020	2.6 E-06	1.6 E-06	0.002	7.6 E-09
		S	0.002	7.3 E-06	5.7 E-06		
U-239	0.392 h	F	0.020	1.1 E-11	1.8 E-11	0.020	2.7 E-11
		M	0.020	2.3 E-11	3.3 E-11	0.002	2.8 E-11
		S	0.002	2.4 E-11	3.5 E-11		
U-240	14.1 h	F	0.020	2.1 E-10	3.7 E-10	0.020	1.1 E-09
		M	0.020	5.3 E-10	7.9 E-10	0.002	1.1 E-09
		S	0.002	5.7 E-10	8.4 E-10		
Neptunij							
Np-232	0.245 h	M	5.0 E-04	4.7 E-11	3.5 E-11	5.0 E-04	9.7 E-12
Np-233	0.603 h	M	5.0 E-04	1.7 E-12	3.0E-12	5.0 E-04	2.2 E-12
Np-234	4.40 d	M	5.0 E-04	5.4 E-10	7.3 E-10	5.0 E-04	8.1 E-10
Np-235	1.08 a	M	5.0 E-04	4.0 E-10	2.7 E-10	5.0 E-04	5.3 E-11
Np-236	1.15E+05 a	M	5.0 E-04	3.0 E-06	2.0 E-06	5.0 E-04	1.7 E-08
Np-236	22.5 h	M	5.0 E-04	5.0 E-09	3.6 E-09	5.0 E-04	1.9 E-10
Np-237	2.14E+06 a	M	5.0 E-04	2.1 E-05	1.5 E-05	5.0 E-04	1.1 E-07
Np-238	2.12 d	M	5.0 E-04	2.0 E-09	1.7 E-09	5.0 E-04	9.1 E-10
Np-239	2.36 d	M	5.0 E-04	9.0 E-10	1.1 E-09	5.0 E-04	8.0 E-10

Np-240	1.08 h	M	5.0 E-04	8.7 E-11	1.3 E-10	5.0 E-04	8.2 E-11
Plutonij							
Pu-234	8.80 h	M	5.0 E-04	1.9 E-08	1.6 E-08	5.0 E-04	1.6 E-10
		S	1.0 E-05	2.2 E-08	1.8 E-08	1.0 E-05	1.5 E-10
Pu-235	0.422 h	M	5.0 E-04	1.5 E-12	2.5 E-12	5.0 E-04	1.6 E-10
		S	1.0 E-05	1.6 E-12	2.6 E-12	1.0 E-05	2.1 E-12
Pu-236	2.85 a	M	5.0 E-04	1.8 E-05	1.3 E-05	5.0 E-04	2.1 E-12
		S	1.0 E-05	9.6 E-06	7.4 E-06	1.0 E-05	2.1 E-12
Pu-237	45.3 d	M	5.0 E-04	3.3 E-10	2.9 E-10	5.0 E-04	8.6 E-08
		S	1.0 E-05	3.6 E-10	3.0 E-10	1.0 E-05	6.3 E-09
Pu-238	87.7 a	M	5.0 E-04	4.3 E-05	3.0 E-05	5.0 E-04	2.1 E-08
		S	1.0 E-05	1.5 E-05	1.1 E-05	1.0 E-05	1.0 E-10
Pu-239	2.41E+04 a	M	5.0 E-04	4.7 E-05	3.2 E-05	5.0 E-04	1.0 E-10
		S	1.0 E-05	1.5 E-05	8.3 E-06	1.0 E-05	1.0 E-10
Pu-240	6.54E+03 a	M	5.0 E-04	4.7 E-05	3.2 E-05	5.0 E-04	2.3 E-07
		S	1.0 E-05	1.5 E-05	8.3 E-06	1.0 E-05	8.8 E-09
Pu-241	14.4 a	M	5.0 E-04	8.5 E-07	5.8 E-07	5.0 E-04	4.9 E-08
		S	1.0 E-05	1.6 E-07	8.4 E-08	1.0 E-05	2.5 E-07
Pu-242	3.76E+05 a	M	5.0 E-04	4.4 E-05	3.1 E-05	5.0 E-04	9.0 E-09
		S	1.0 E-05	1.4 E-05	7.7 E-06	1.0 E-05	5.3 E-08
Pu-243	4.95 h	M	5.0 E-04	8.2 E-11	1.1 E-10	5.0 E-04	2.5 E-07
		S	1.0 E-05	8.5 E-11	1.1 E-10	1.0 E-05	9.0 E-09
Pu-244	8.26E+07 a	M	5.0 E-04	4.4 E-05	3.0 E-05	5.0 E-04	5.3 E-08
		S	1.0 E-05	1.3 E-05	7.4 E-06	1.0 E-05	2.5 E-07
Pu-245	10.5 h	M	5.0 E-04	4.5 E-10	6.1 E-10	5.0 E-04	9.0 E-09
		S	1.0 E-05	4.8 E-10	6.5 E-10	1.0 E-05	5.3 E-08
Pu-246	10.9 d	M	5.0 E-04	7.0 E-09	6.5 E-09	5.0 E-04	2.5 E-07
		S	1.0 E-05	7.6 E-09	7.0 E-09	1.0 E-05	9.0 E-09
Americij							
Am-237	1.22 h	M	5.0 E-04	2.5 E-11	3.6 E-11	5.0 E-04	3.3 E-09
Am-238	1.63 h	M	5.0 E-04	8.5 E-11	6.6 E-11	5.0 E-04	3.3 E-09
Am-239	11.9 h	M	5.0 E-04	2.2 E-10	2.9 E-10	5.0 E-04	3.3 E-09
Am-240	2.12 d	M	5.0 E-04	4.4 E-10	5.9 E-10	5.0 E-04	3.3 E-09
Am-241	4.32E+02 a	M	5.0 E-04	3.9 E-05	2.7 E-05	5.0 E-04	3.3 E-09
Am-242	16.0 h	M	5.0 E-04	1.6 E-08	1.2 E-08	5.0 E-04	3.3 E-09
Am-242m	1.52E+02 a	M	5.0 E-04	3.5 E-05	2.4 E-05	5.0 E-04	3.3 E-09
Am-243	7.38E+03 a	M	5.0 E-04	3.9 E-05	2.7 E-05	5.0 E-04	3.3 E-09

Am-244	10.1 h	M	5.0 E-04	1.9 E-09	1.5 E-09	5.0 E-04	4.6 E-10
Am-244m	0.433 h	M	5.0 E-04	7.9 E-11	6.2 E-11	5.0 E-04	2.9 E-11
Am-245	2.05 h	M	5.0 E-04	5.3 E-11	7.6 E-11	5.0 E-04	6.2 E-11
Am-246	0.650 h	M	5.0 E-04	6.8 E-11	1.1 E-10	5.0 E-04	5.8 E-11
Am-246m	0.417 h	M	5.0 E-04	2.3 E-11	3.8 E-11	5.0 E-04	3.4 E-11
Kirij							
Cm-238	2.40 h	M	5.0 E-04	4.1 E-09	4.8 E-09	5.0 E-04	8.0 E-11
Cm-240	27.0 d	M	5.0 E-04	2.9 E-06	2.3 E-06	5.0 E-04	7.6 E-09
Cm-241	32.8 d	M	5.0 E-04	3.4 E-08	2.6 E-08	5.0 E-04	9.1 E-10
Cm-242	163 d	M	5.0 E-04	4.8 E-06	3.7 E-06	5.0 E-04	1.2 E-08
Cm-243	28.5 a	M	5.0 E-04	2.9 E-05	2.0 E-05	5.0 E-04	1.5 E-07
Cm-244	18.1 a	M	5.0 E-04	2.5 E-05	1.7 E-05	5.0 E-04	1.2 E-07
Cm-245	8.50E+03 a	M	5.0 E-04	4.0 E-05	2.7 E-05	5.0 E-04	2.1 E-07
Cm-246	4.73E+03 a	M	5.0 E-04	4.0 E-05	2.7 E-05	5.0 E-04	2.1 E-07
Cm-247	1.56E+07 a	M	5.0 E-04	3.6 E-05	2.5 E-05	5.0 E-04	1.9 E-07
Cm-248	3.39E+05 a	M	5.0 E-04	1.4 E-04	9.5 E-05	5.0 E-04	7.7 E-07
Cm-249	1.07 h	M	5.0 E-04	3.2 E-11	5.1 E-11	5.0 E-04	3.1 E-11
Cm-250	6.90E+03 a	M	5.0 E-04	7.9 E-04	5.4 E-04	5.0 E-04	4.4 E-06
Berkilij							
Bk-245	4.94 d	M	5.0 E-04	2.0 E-09	1.8 E-09	5.0 E-04	5.7 E-10
Bk-246	1.83 d	M	5.0 E-04	3.4 E-10	4.6 E-10	5.0 E-04	4.8 E-10
Bk-247	1.38E+03 a	M	5.0 E-04	6.5 E-05	4.5 E-05	5.0 E-04	3.5 E-07
Bk-249	320 d	M	5.0 E-04	1.5 E-07	1.0 E-07	5.0 E-04	9.7 E-10
Bk-250	3.22 h	M	5.0 E-04	9.6 E-10	7.1 E-10	5.0 E-04	1.4 E-10
Kalifornij							
Cf-244	0.323 h	M	5.0 E-04	1.3 E-08	1.8 E-08	5.0 E-04	7.0 E-11
Cf-246	1.49 d	M	5.0 E-04	4.2 E-07	3.5 E-07	5.0 E-04	3.3 E-09
Cf-248	334 d	M	5.0 E-04	8.2 E-06	6.1 E-06	5.0 E-04	2.8 E-08
Cf-249	3.50E+02 a	M	5.0 E-04	6.6 E-05	4.5 E-05	5.0 E-04	3.5 E-07
Cf-250	13.1 a	M	5.0 E-04	3.2 E-05	2.2 E-05	5.0 E-04	1.6 E-07
Cf-251	8.98E+02 a	M	5.0 E-04	6.7 E-05	4.6 E-05	5.0 E-04	3.6 E-07
Cf-252	2.64 a	M	5.0 E-04	1.8 E-05	1.3 E-05	5.0 E-04	9.0 E-08
Cf-253	17.8 d	M	5.0 E-04	1.2 E-06	1.0 E-06	5.0 E-04	1.4 E-09
Cf-254	60.5 d	M	5.0 E-04	3.7 E-05	2.2 E-05	5.0 E-04	4.0 E-07
Ajnštajnij							
Es-250	2.10 h	M	5.0 E-04	5.9 E-10	4.2 E-10	5.0 E-04	2.1 E-11
Es-251	1.38 d	M	5.0 E-04	2.0 E-09	1.7 E-09	5.0 E-04	1.7 E-10
Es-253	20.5 d	M	5.0 E-04	2.5 E-06	2.1 E-06	5.0 E-04	6.1 E-09
Es-254	276 d	M	5.0 E-04	8.0 E-06	6.0 E-06	5.0 E-04	2.8 E-08
Es-254m	1.64 d	M	5.0 E-04	4.4 E-07	3.7 E-07	5.0 E-04	4.2 E-09
Fermij							
Fm-252	22.7 h	M	5.0 E-04	3.0 E-07	2.6 E-07	5.0 E-04	2.7 E-09
Fm-253	3.00 d	M	5.0 E-04	3.7 E-07	3.0 E-07	5.0 E-04	9.1 E-10
Fm-254	3.24 h	M	5.0 E-04	5.6 E-08	7.7 E-08	5.0 E-04	4.4 E-10
Fm-255	20.1 h	M	5.0 E-04	2.5 E-07	2.6 E-07	5.0 E-04	2.5 E-09
Fm-257	101 d	M	5.0 E-04	6.6 E-06	5.2 E-06	5.0 E-04	1.5 E-08

Mendelevij								
Md-257	5.20 h	M	5.0 E-04	2.3 E-08	2.0 E-08	5.0 E-04	1.2 E-10	
Md-258	55.0 d	M	5.0 E-04	5.5 E-06	4.4 E-06	5.0 E-04	1.3 E-08	

Napomena: Tipovi F, M i S znače brza, umjerena i spora apsorpcija u pluća

Tablica 4. PUČANSTVO: OČEKIVANE EFEKTIVNE DOZE PO JEDINICI UNESENE AKTIVNOSTI $e(g)$ GUTANJEM ($Sv Bq^{-1}$)

Radionuklid	Fizikalno vrijeme poluraspada	Dob $g < 1 a$		fI za $g \geq 1 a$	Dob 1-2 a $e(g)$	Dob 2-7 a $e(g)$	Dob 7-12 a $e(g)$	Dob 12 - 17 a $e(g)$	Dob $> 17 a$ $e(g)$
		fI	$e(g)$						
Vodik									
Tricirana voda	12.3 a	1.000	6.4 E-11	1.000	4.8 E-11	3.1 E-11	2.3 E-11	1.8 E-11	1.8 E-11
Organski vezani tricij	12.3 a	1.000	1.2 E-10	1.000	1.2 E-10	7.3 E-11	5.7 E-11	4.2 E-11	4.2 E-11
Berilij									
Be-7	53.3 d	0.020	1.8 E-10	0.005	1.3 E-10	7.7 E-11	5.3 E-11	3.5 E-11	2.8 E-11
Be-10	1.60 E+06a	0.020	1.4 E-08	0.005	8.0 E-09	4.1 E-09	2.4 E-09	1.4 E-09	1.1 E-09
Ugljik									
C-11	0.340 h	1.000	2.6 E-10	1.000	1.5 E-10	7.3 E-11	4.3 E-11	3.0 E-11	2.4 E-11
C-14	5.73 E+03a	1.000	1.4 E-09	1.000	1.6 E-09	9.9 E-10	8.0 E-10	5.7 E-10	5.8 E-10
Fluor									
F-18	1.83 h	1.000	5.2 E-10	1.000	3.0 E-10	1.5 E-10	9.1 E-11	6.2 E-11	4.9 E-11
Natrij									
Na-22	2.60 a	1.000	2.1 E-08	1.000	1.5 E-08	8.4 E-09	5.5 E-09	3.7 E-09	3.2 E-09
Na-24	15.0 h	1.000	3.5 E-09	1.000	2.3 E-09	1.2 E-09	7.7 E-10	5.2 E-10	4.3 E-10
Magnezij									
Ma-28	20.9 h	1.000	1.2 E-08	0.500	1.4 E-08	7.4 E-09	4.5 E-09	2.7 E-09	2.2 E-09
Aluminij									
Al-26	7.16 E+05a	0.020	3.4 E-08	0.010	2.1 E-08	1.1 E-08	7.1 E-09	4.3 E-09	3.5 E-09
Silicij									
Si-31	2.62 h	0.020	1.9 E-09	0.010	1.0 E-09	5.1 E-10	3.0 E-10	1.8 E-10	1.6 E-10
Si-32	4.50 E+02a	0.020	7.3 E-09	0.010	4.1 E-09	2.0 E-09	1.2 E-09	7.0 E-10	5.6 E-10
Fosfor									
P-32	14.3 d	1.000	3.1 E-08	0.800	1.9 E-08	9.4 E-09	5.3 E-09	3.1 E-09	2.4 E-09
P-33	25.4 d	1.000	2.7 E-09	0.800	1.8 E-09	9.1 E-10	5.3 E-10	3.1 E-10	2.4 E-10
Sumpor									
S-35 (anorganski)	87.4 d	1.000	1.3 E-09	1.000	8.7 E-10	4.4 E-10	2.7 E-10	1.6 E-10	1.3 E-10
S-35 (organski)	87.4 d	1.000	7.7 E-09	1.000	5.4 E-09	2.7 E-09	1.6 E-09	9.5 E-10	7.7 E-10
Klor									
Cl-36	3.01 E+05a	1.000	9.8 E-09	1.000	6.3 E-09	3.2 E-09	1.9 E-09	1.2 E-09	9.3 E-10
Cl-38	0.620 h	1.000	1.4 E-09	1.000	7.7 E-10	3.8 E-10	2.2 E-10	1.5 E-10	1.2 E-10
Cl-39	0.927 h	1.000	9.7 E-10	1.000	5.5 E-10	2.7 E-10	1.6 E-10	1.1 E-10	8.5 E-11

Kalij									
K-40	1.28 E+09a	1.000	6.2 E-08	1.000	4.2 E-08	2.1 E-08	1.3 E-08	7.6 E-09	6.2 E-09
K-42	12.4 h	1.000	5.1 E-09	1.000	3.0 E-09	1.5 E-09	8.6 E-10	5.4 E-10	4.3 E-10
K-43	22.6 h	1.000	2.3 E-09	1.000	1.4 E-09	7.6 E-10	4.7 E-10	3.0 E-10	2.5 E-10
K-44	0.369 h	1.000	1.0 E-09	1.000	5.5 E-10	2.7 E-10	1.6 E-10	1.1 E-10	8.4 E-11
K-45	0.333 h	1.000	6.2 E-10	1.000	3.5 E-10	1.7 E-10	9.9 E-11	6.8 E-11	5.4 E-11
Kalcij									
Ca-41	1.40 E+05a	0.600	1.2 E-09	0.300	5.2 E-10	3.9 E-10	4.8 E-10	5.0 E-10	1.9 E-10
Ca-45	163 d	0.600	1.1 E-08	0.300	4.9 E-09	2.6 E-09	1.8 E-09	1.3 E-09	7.1 E-10
Ca-47	4.53 d	0.600	1.3 E-08	0.300	9.3 E-09	4.9 E-09	3.0 E-09	1.8 E-09	1.6 E-09
Skandij									
Sc-43	3.89 h	0.001	1.8 E-09	1.0 E-04	1.2 E-09	6.1 E-10	3.7 E-10	2.3 E-10	1.9 E-10
Sc-44	3.93 h	0.001	3.5 E-09	1.0 E-04	2.2 E-09	1.2 E-09	7.1 E-10	4.4 E-10	3.5 E-10
Sc-44m	2.44 d	0.001	2.4 E-08	1.0 E-04	1.6 E-08	8.3 E-09	5.1 E-09	3.1 E-09	2.4 E-09
Sc-46	83.8 d	0.001	1.1 E-08	1.0 E-04	7.9 E-09	4.4 E-09	2.9 E-09	1.8 E-09	1.5 E-09
Sc-47	3.35 d	0.001	6.1 E-09	1.0 E-04	3.9 E-09	2.0 E-09	1.2 E-09	6.8 E-10	5.4 E-10
Sc-48	1.82 d	0.001	1.3 E-08	1.0 E-04	9.3 E-09	5.1 E-09	3.3 E-09	2.1 E-09	1.7 E-09
Sc-49	0.956 h	0.001	1.0 E-09	1.0 E-04	5.7 E-10	2.8 E-10	1.6 E-10	1.0 E-10	8.2 E-11
Titan									
Ti-44	47.3 a	0.020	5.5 E-08	0.010	3.1 E-08	1.7 E-08	1.1 E-08	6.9 E-09	5.8 E-09
Ti-45	3.08 h	0.020	1.6 E-09	0.010	9.8 E-10	5.0 E-10	3.1 E-10	1.9 E-10	1.5 E-10
Vanadij									
V-47	0.543 h	0.020	7.3 E-10	0.010	4.1 E-10	2.0 E-10	1.2 E-10	8.0 E-11	6.3 E-11
V-48	16.2 d	0.020	1.5 E-08	0.010	1.1 E-08	5.9 E-09	3.9 E-09	2.5 E-09	2.0 E-09
V-49	330 d	0.020	2.2 E-10	0.010	1.4 E-10	6.9 E-11	4.0 E-11	2.3 E-11	1.8 E-11
Krom									
Cr-48	23.0 h	0.200	1.4 E-09	0.100	9.9 E-10	5.7 E-10	3.8 E-10	2.5 E-10	2.0 E-10
		0.020	1.4 E-09	0.010	9.9 E-10	5.7 E-10	3.8 E-10	2.5 E-10	2.0 E-10
Cr-49	0.702 h	0.200	6.8 E-10	0.100	3.9 E-10	2.0 E-10	1.1 E-10	7.7 E-11	6.1 E-11
		0.020	6.8 E-10	0.010	3.9 E-10	2.0 E-10	1.1 E-10	7.7 E-11	6.1 E-11
Cr-51	27.7 d	0.200	3.5 E-10	0.100	2.3 E-10	1.2 E-10	7.8 E-11	4.8 E-11	3.8 E-11
		0.020	3.3 E-10	0.010	2.2 E-10	1.2 E-10	7.5 E-11	4.6 E-11	3.7 E-11
Mangan									
Mn-51	0.770 h	0.200	1.1 E-09	0.100	6.1 E-10	3.0 E-10	1.8 E-10	1.2 E-10	9.3 E-11
Mn-52	5.59 d	0.200	1.2 E-08	0.100	8.8 E-09	5.1 E-09	3.4 E-09	2.2 E-09	1.8 E-09
Mn-52m	0.352 h	0.200	7.8 E-10	0.100	4.4 E-10	2.2 E-10	1.3 E-10	8.8 E-11	6.9 E-11
Mn-53	3.70 E+06a	0.200	4.1 E-10	0.100	2.2 E-10	1.1 E-10	6.5 E-11	3.7 E-11	3.0 E-11
Mn-54	312 d	0.200	5.4 E-09	0.100	3.1 E-09	1.9 E-09	1.3 E-09	8.7 E-10	7.1 E-10
Mn-56	2.58 h	0.200	2.7 E-09	0.100	1.7 E-09	8.5 E-10	5.1 E-10	3.2 E-10	2.5 E-10
Željezo									
Fe-52	8.28 h	0.600	1.3 E-08	0.100	9.1 E-09	4.6 E-09	2.8 E-09	1.7 E-09	1.4 E-09
Fe-55	2.70 a	0.600	7.6 E-09	0.100	2.4 E-09	1.7 E-09	1.1 E-09	7.7 E-10	3.3 E-10
Fe-59	44.5 d	0.600	3.9 E-08	0.100	1.3 E-08	7.5 E-09	4.7 E-09	3.1 E-09	1.8 E-09
Fe-60	1.00 E+05a	0.600	7.9 E-07	0.100	2.7 E-07	2.7 E-07	2.5 E-07	2.3 E-07	1.1 E-07

Kobalt									
Co-55	17.5 h	0.600	6.0 E-09	0.100	5.5 E-09	2.9 E-09	1.8 E-09	1.1 E-09	1.0 E-09
Co-56	78.7 d	0.600	2.5 E-08	0.100	1.5 E-08	8.8 E-09	5.8 E-09	3.8 E-09	2.5 E-09
Co-57	271 d	0.600	2.9 E-09	0.100	1.6 E-09	8.9 E-10	5.8 E-10	3.7 E-10	2.1 E-10
Co-58	70.8 d	0.600	7.3 E-09	0.100	4.4 E-09	2.6 E-09	1.7 E-09	1.1 E-09	7.4 E-10
Co-58m	9.15 h	0.600	2.0 E-10	0.100	1.5 E-10	7.8 E-11	4.7 E-11	2.8 E-11	2.4 E-11
Co-60	5.27 a	0.600	5.4 E-08	0.100	2.7 E-08	1.7 E-08	1.1 E-08	7.9 E-09	3.4 E-09
Co-60m	0.174 h	0.600	2.2 E-11	0.100	1.2 E-11	5.7 E-12	3.2 E-12	2.2 E-12	1.7 E-12
Co-61	1.65 h	0.600	8.2 E-10	0.100	5.1 E-10	2.5 E-10	1.4 E-10	9.2 E-11	7.4 E-11
Co-62m	0.232 h	0.600	5.3 E-10	0.100	3.0 E-10	1.5 E-10	8.7 E-11	6.0 E-11	4.7 E-11
Nikal									
Ni-56	6.10 d	0.100	5.3 E-09	0.050	4.0 E-09	2.3 E-09	1.6 E-09	1.1 E-09	8.6 E-10
Ni-57	1.50 d	0.100	6.8 E-09	0.050	4.9 E-09	2.7 E-09	1.7 E-09	1.1 E-09	8.7 E-10
Ni-59	7.50 E+04a	0.100	6.4 E-10	0.050	3.4 E-10	1.9 E-10	1.1 E-10	7.3 E-11	6.3 E-11
Ni-63	96.0 a	0.100	1.6 E-09	0.050	8.4 E-10	4.6 E-10	2.8 E-10	1.8 E-10	1.5 E-10
Ni-65	2.52 h	0.100	2.1 E-09	0.050	1.3 E-09	6.3 E-10	3.8 E-10	2.3 E-10	1.8 E-10
Ni-66	2.27 d	0.100	3.3 E-08	0.050	2.2 E-08	1.1 E-08	6.6 E-09	3.7 E-09	3.0 E-09
Bakar									
Cu-60	0.387 h	1.000	7.0 E-10	0.500	4.2 E-10	2.2 E-10	1.3 E-10	8.9 E-11	7.0 E-11
Cu-61	3.41 h	1.000	7.1 E-10	0.500	7.5 E-10	3.9 E-10	2.3 E-10	1.5 E-10	1.2 E-10
Cu-64	12.7 h	1.000	5.2 E-10	0.500	8.3 E-10	4.2 E-10	2.5 E-10	1.5 E-10	1.2 E-10
Cu-67	2.58 d	1.000	2.1 E-09	0.500	2.4 E-09	1.2 E-09	7.2 E-10	4.2 E-10	3.4 E-10
Cink									
Zn-62	9.26 h	1.000	4.2 E-09	0.500	6.5 E-09	3.3 E-09	2.0 E-09	1.2 E-09	9.4 E-10
Zn-63	0.635 h	1.000	8.7 E-10	0.500	5.2 E-10	2.6 E-10	1.5 E-10	1.0 E-10	7.9 E-11
Zn-65	244 d	1.000	3.6 E-08	0.500	1.6 E-08	9.7 E-09	6.4 E-09	4.5 E-09	3.9 E-09
Zn-69	0.950 h	1.000	3.5 E-10	0.500	2.2 E-10	1.1 E-10	6.0 E-11	3.9 E-11	3.1 E-11
Zn-69m	13.8 h	1.000	1.3 E-09	0.500	2.3 E-09	1.2 E-09	7.0 E-10	4.1 E-10	3.3 E-10
Zn-71m	3.92 h	1.000	1.4 E-09	0.500	1.5 E-09	7.8 E-10	4.8 E-10	3.0 E-10	2.4 E-10
Zn-72	1.94 d	1.000	8.7 E-09	0.500	8.6 E-09	4.5 E-09	2.8 E-09	1.7 E-09	1.4 E-09
Galij									
Ga-65	0.253 h	0.010	4.3 E-10	0.001	2.4 E-10	1.2 E-10	6.9 E-11	4.7 E-11	3.7 E-11
Ga-66	9.40 h	0.010	1.2 E-08	0.001	7.9 E-09	4.0 E-09	2.5 E-09	1.5 E-09	1.2 E-09
Ga-67	3.26 d	0.010	1.8 E-09	0.001	1.2 E-09	6.4 E-10	4.0 E-10	2.4 E-10	1.9 E-10
Ga-68	1.13 h	0.010	1.2 E-09	0.001	6.7 E-10	3.4 E-10	2.0 E-10	1.3 E-10	1.0 E-10
Ga-70	0.353 h	0.010	3.9 E-10	0.001	2.2 E-10	1.0 E-10	5.9 E-11	4.0 E-11	3.1 E-11
Ga-72	14.1 h	0.010	1.0 E-08	0.001	6.8 E-09	3.6 E-09	2.2 E-09	1.4 E-09	1.1 E-09
Ga-73	4.91 h	0.010	3.0 E-09	0.001	1.9 E-09	9.3 E-10	5.5 E-10	3.3 E-10	2.6 E-10
Germanij									
Ge-66	2.27 h	1.000	8.3 E-10	1.000	5.3 E-10	2.9 E-10	1.9 E-10	1.3 E-10	1.0 E-10
Ge-67	0.312 h	1.000	7.7 E-10	1.000	4.2 E-10	2.1 E-10	1.2 E-10	8.2 E-11	6.5 E-11
Ge-68	288 d	1.000	1.2 E-08	1.000	8.0 E-09	4.2 E-09	2.6 E-09	1.6 E-09	1.3 E-09
Ge-69	1.63 d	1.000	2.0 E-09	1.000	1.3 E-09	7.1 E-10	4.6 E-10	3.0 E-10	2.4 E-10
Ge-71	11.8 d	1.000	1.2 E-10	1.000	7.8 E-11	4.0 E-11	2.4 E-11	1.5 E-11	1.2 E-11
Ge-75	1.38 h	1.000	5.5 E-10	1.000	3.1 E-10	1.5 E-10	8.7 E-11	5.9 E-11	4.6 E-11
Ge-77	11.3 h	1.000	3.0 E-09	1.000	1.8 E-09	9.9 E-10	6.2 E-10	4.1 E-10	3.3 E-10
Ge-78	1.45 h	1.000	1.2 E-09	1.000	7.0 E-10	3.6 E-10	2.2 E-10	1.5 E-10	1.2 E-10

Arsen									
As-69	0.253 h	1.000	6.6 E-10	0.500	3.7 E-10	1.8 E-10	1.1 E-10	7.2 E-11	5.7 E-11
As-70	0.876 h	1.000	1.2 E-09	0.500	7.8 E-10	4.1 E-10	2.5 E-10	1.7 E-10	1.3 E-10
As-71	2.70 d	1.000	2.8 E-09	0.500	2.8 E-09	1.5 E-09	9.3 E-10	5.7 E-10	4.6 E-10
As-72	1.08 d	1.000	1.1 E-08	0.500	1.2 E-08	6.3 E-09	3.8 E-09	2.3 E-09	1.8 E-09
As-73	80.3 d	1.000	2.6 E-09	0.500	1.9 E-09	9.3 E-10	5.6 E-10	3.2 E-10	2.6 E-10
As-74	17.8 d	1.000	1.0 E-08	0.500	8.2 E-09	4.3 E-09	2.6 E-09	1.6 E-09	1.3 E-09
As-76	1.10 d	1.000	1.0 E-08	0.500	1.1 E-08	5.8 E-09	3.4 E-09	2.0 E-09	1.6 E-09
As-77	1.62 d	1.000	2.7 E-09	0.500	2.9 E-09	1.5 E-09	8.7 E-10	5.0 E-10	4.0 E-10
As-78	1.51 h	1.000	2.0 E-09	0.500	1.4 E-09	7.0 E-10	4.1 E-10	2.7 E-10	2.1 E-10
Selen									
Se-70	0.683 h	1.000	1.0 E-09	0.800	7.1 E-10	3.6 E-10	2.2 E-10	1.5 E-10	1.2 E-10
Se-73	7.15 h	1.000	1.6 E-09	0.800	1.4 E-09	7.4 E-10	4.8 E-10	2.5 E-10	2.1 E-10
Se-73m	0.650 h	1.000	2.6 E-10	0.800	1.8 E-10	9.5 E-11	5.9 E-11	3.5 E-11	2.8 E-11
Se-75	120 d	1.000	2.0 E-08	0.800	1.3 E-08	8.3 E-09	6.0 E-09	3.1 E-09	2.6 E-09
Se-79	6.50 E+04a	1.000	4.1 E-08	0.800	2.8 E-08	1.9 E-08	1.4 E-08	4.1 E-09	2.9 E-09
Se-81	0.308 h	1.000	3.4 E-10	0.800	1.9 E-10	9.0 E-11	5.1 E-11	3.4 E-11	2.7 E-11
Se-81m	0.954 h	1.000	6.0 E-10	0.800	3.7 E-10	1.8 E-10	1.1 E-10	6.7 E-11	5.3 E-11
Se-83	0.375 h	1.000	4.6 E-10	0.800	2.9 E-10	1.5 E-10	8.7 E-11	5.9 E-11	4.7 E-11
Brom									
Br-74	0.422 h	1.000	9.0 E-10	1.000	5.2 E-10	2.6 E-10	1.5 E-10	1.1 E-10	8.4 E-11
Br-74m	0.691 h	1.000	1.5 E-09	1.000	8.5 E-10	4.3 E-10	2.5 E-10	1.7 E-10	1.4 E-10
Br-75	1.63 h	1.000	8.5 E-10	1.000	4.9 E-10	2.5 E-10	1.5 E-10	9.9 E-11	7.9 E-11
Br-76	16.2 h	1.000	4.2 E-09	1.000	2.7 E-09	1.4 E-09	8.7 E-10	5.6 E-10	4.6 E-10
Br-77	2.33 d	1.000	6.3 E-10	1.000	4.4 E-10	2.5 E-10	1.7 E-10	1.1 E-10	9.6 E-11
Br-80	0.290 h	1.000	3.9 E-10	1.000	2.1 E-10	1.0 E-10	5.8 E-11	3.9 E-11	3.1 E-11
Br-80m	4.42 h	1.000	1.4 E-09	1.000	8.0 E-10	3.9 E-10	2.3 E-10	1.4 E-10	1.1 E-10
Br-82	1.47 d	1.000	3.7 E-09	1.000	2.6 E-09	1.5 E-09	9.5 E-10	6.4 E-10	5.4 E-10
Br-83	2.39 h	1.000	5.3 E-10	1.000	3.0 E-10	1.4 E-10	8.3 E-11	5.5 E-11	4.3 E-11
Br-84	0.530 h	1.000	1.0 E-09	1.000	5.8 E-10	2.8 E-10	1.6 E-10	1.1 E-10	8.8 E-11
Rubidij									
Rb-79	0.382 h	1.000	5.7 E-10	1.000	3.2 E-10	1.6 E-10	9.2 E-11	6.3 E-11	5.0 E-11
Rb-81	4.58 h	1.000	5.4 E-10	1.000	3.2 E-10	1.6 E-10	1.0 E-10	6.7 E-11	5.4 E-11
Rb-81m	0.533 h	1.000	1.1 E-10	1.000	6.2 E-11	3.1 E-11	1.8 E-11	1.2 E-11	9.7 E-12
Rb-82m	6.20 h	1.000	8.7 E-10	1.000	5.9 E-10	3.4 E-10	2.2 E-10	1.5 E-10	1.3 E-10
Rb-83	86.2 d	1.000	1.1 E-08	1.000	8.4 E-09	4.9 E-09	3.2 E-09	2.2 E-09	1.9 E-09
Rb-84	32.8 d	1.000	2.0 E-08	1.000	1.4 E-08	7.9 E-09	5.0 E-09	3.3 E-09	2.8 E-09
Rb-86	18.7 d	1.000	3.1 E-08	1.000	2.0 E-08	9.9 E-09	5.9 E-09	3.5 E-09	2.8 E-09
Rb-87	4.70 E+10a	1.000	1.5 E-08	1.000	1.0 E-08	5.2 E-09	3.1 E-09	1.8 E-09	1.5 E-09
Rb-88	0.297 h	1.000	1.1 E-09	1.000	6.2 E-10	3.0 E-10	1.7 E-10	1.2 E-10	9.0 E-11
Rb-89	0.253 h	1.000	5.4 E-10	1.000	3.0 E-10	1.5 E-10	8.6 E-11	5.9 E-11	4.7 E-11
Stroncij									
Sr-80	1.67 h	0.600	3.7 E-09	0.300	2.3 E-09	1.1 E-09	6.5 E-10	4.2 E-10	3.4 E-10
Sr-81	0.425 h	0.600	8.4 E-10	0.300	4.9 E-10	2.4 E-10	1.4 E-10	9.6 E-11	7.7 E-11
Sr-82	25.0 d	0.600	7.2 E-08	0.300	4.1 E-08	2.1 E-08	1.3 E-08	8.7 E-09	6.1 E-09
Sr-83	1.35 d	0.600	3.4 E-09	0.300	2.7 E-09	1.4 E-09	9.1 E-10	5.7 E-10	4.9 E-10
Sr-85	64.8 d	0.600	7.7 E-09	0.300	3.1 E-09	1.7 E-09	1.5 E-09	1.3 E-09	5.6 E-10
Sr-85m	1.16 h	0.600	4.5 E-11	0.300	3.0 E-11	1.7 E-11	1.1 E-11	7.8 E-12	6.1 E-12

Sr-87m	2.80 h	0.600	2.4 E-10	0.300	1.7 E-10	9.0 E-11	5.6 E-11	3.6 E-11	3.0 E-11
Sr-89	50.5 d	0.600	3.6 E-08	0.300	1.8 E-08	8.9 E-09	5.8 E-09	4.0 E-09	2.6 E-09
Sr-90	29.1 a	0.600	2.3 E-07	0.300	7.3 E-08	4.7 E-08	6.0 E-08	8.0 E-08	2.8 E-08
Sr-91	9.50 h	0.600	5.2 E-09	0.300	4.0 E-09	2.1 E-09	1.2 E-09	7.4 E-10	6.5 E-10
Sr-92	2.71 h	0.600	3.4 E-09	0.300	2.7 E-09	1.4 E-09	8.2 E-10	4.8 E-10	4.3 E-10
Itrij									
Y-86	14.7 h	0.001	7.6 E-09	1.0 E-04	5.2 E-09	2.9 E-09	1.9 E-09	1.2 E-09	9.6 E-10
Y-86m	0.800 h	0.001	4.5 E-10	1.0 E-04	3.1 E-10	1.7 E-10	1.1 E-10	7.1 E-11	5.6 E-11
Y-87	3.35 d	0.001	4.6 E-09	1.0 E-04	3.2 E-09	1.8 E-09	1.1 E-09	7.0 E-10	5.5 E-10
Y-88	107 d	0.001	8.1 E-09	1.0 E-04	6.0 E-09	3.5 E-09	2.4 E-09	1.6 E-09	1.3 E-09
Y-90	2.67 d	0.001	3.1 E-08	1.0 E-04	2.0 E-08	1.0 E-08	5.9 E-09	3.3 E-09	2.7 E-09
Y-90m	3.19 h	0.001	1.8 E-09	1.0 E-04	1.2 E-09	6.1 E-10	3.7 E-10	2.2 E-10	1.7 E-10
Y-91	58.5 d	0.001	2.8 E-08	1.0 E-04	1.8 E-08	8.8 E-09	5.2 E-09	2.9 E-09	2.4 E-09
Y-91m	0.828 h	0.001	9.2 E-11	1.0 E-04	6.0 E-11	3.3 E-11	2.1 E-11	1.4 E-11	1.1 E-11
Y-92	3.54 h	0.001	5.9 E-09	1.0 E-04	3.6 E-09	1.8 E-09	1.0 E-09	6.2 E-10	4.9 E-10
Y-93	10.1 h	0.001	1.4 E-08	1.0 E-04	8.5 E-09	4.3 E-09	2.5 E-09	1.4 E-09	1.2 E-09
Y-94	0.318 h	0.001	9.9 E-10	1.0 E-04	5.5 E-10	2.7 E-10	1.5 E-10	1.0 E-10	8.1 E-11
Y-95	0.178 h	0.001	5.7 E-10	1.0 E-04	3.1 E-10	1.5 E-10	8.7 E-11	5.9 E-11	4.6 E-11
Cirkonij									
Zr-86	16.5 h	0.020	6.9 E-09	0.010	4.8 E-09	2.7 E-09	1.7 E-09	1.1 E-09	8.6 E-10
Zr-88	83.4 d	0.020	2.8 E-09	0.010	2.0 E-09	1.2 E-09	8.0 E-10	5.4 E-10	4.5 E-10
Zr-89	3.27 d	0.020	6.5 E-09	0.010	4.5 E-09	2.5 E-09	1.6 E-09	9.9 E-10	7.9 E-10
Zr-93	1.53 E+06a	0.020	1.2 E-09	0.010	7.6 E-10	5.1 E-10	5.8 E-10	8.6 E-10	1.1 E-09
Zr-95	64.0 d	0.020	8.5 E-09	0.010	5.6 E-09	3.0 E-09	1.9 E-09	1.2 E-09	9.5 E-10
Zr-97	16.9 h	0.020	2.2 E-08	0.010	1.4 E-08	7.3 E-09	4.4 E-09	2.6 E-09	2.1 E-09
Niobij									
Nb-88	0.238 h	0.020	6.7 E-10	0.010	3.8 E-10	1.9 E-10	1.1 E-10	7.9 E-11	6.3 E-11
Nb-89	2.03 h	0.020	3.0 E-09	0.010	2.0 E-09	1.0 E-09	6.0 E-10	3.4 E-10	2.7 E-10
Nb-89	1.10 h	0.020	1.5 E-09	0.010	8.7 E-10	4.4 E-10	2.7 E-10	1.8 E-10	1.4 E-10
Nb-90	14.6 h	0.020	1.1 E-08	0.010	7.2 E-09	3.9 E-09	2.5 E-09	1.6 E-09	1.2 E-09
Nb-93m	13.6 a	0.020	1.5 E-09	0.010	9.1 E-10	4.6 E-10	2.7 E-10	1.5 E-10	1.2 E-10
Nb-94	2.03 E+04a	0.020	1.5 E-08	0.010	9.7 E-09	5.3 E-09	3.4 E-09	2.1 E-09	1.7 E-09
Nb-95	35.1 d	0.020	4.6 E-09	0.010	3.2 E-09	1.8 E-09	1.1 E-09	7.4 E-10	5.8 E-10
Nb-95m	3.61 d	0.020	6.4 E-09	0.010	4.1 E-09	2.1 E-09	1.2 E-09	7.1 E-10	5.6 E-10
Nb-96	23.3 h	0.020	9.2 E-09	0.010	6.3 E-09	3.4 E-09	2.2 E-09	1.4 E-09	1.1 E-09
Nb-97	1.20 h	0.020	7.7 E-10	0.010	4.5 E-10	2.3 E-10	1.3 E-10	8.7 E-11	6.8 E-11
Nb-98	0.858 h	0.020	1.2 E-09	0.010	7.1 E-10	3.6 E-10	2.2 E-10	1.4 E-10	1.1 E-10
Molibden									
Mo-90	5.67 h	1.000	1.7 E-09	1.000	1.2 E-09	6.3 E-10	4.0 E-10	2.7 E-10	2.2 E-10
Mo-93	3.50 E+03a	1.000	7.9 E-09	1.000	6.9 E-09	5.0 E-09	4.0 E-09	3.4 E-09	3.1 E-09
Mo-93m	6.85 h	1.000	8.0 E-10	1.000	5.4 E-10	3.1 E-10	2.0 E-10	1.4 E-10	1.1 E-10
Mo-99	2.75 d	1.000	5.5 E-09	1.000	3.5 E-09	1.8 E-09	1.1 E-09	7.6 E-10	6.0 E-10
Mo-101	0.244 h	1.000	4.8 E-10	1.000	2.7 E-10	1.3 E-10	7.6 E-11	5.2 E-11	4.1 E-11
Tehnecij									
Tc-93	2.75 h	1.000	2.7 E-10	0.500	2.5 E-10	1.5 E-10	9.8 E-11	6.8 E-11	5.5 E-11
Tc-93m	0.725 h	1.000	2.0 E-10	0.500	1.3 E-10	7.3 E-11	4.6 E-11	3.2 E-11	2.5 E-11
Tc-94	4.88 h	1.000	1.2 E-09	0.500	1.0 E-09	5.8 E-10	3.7 E-10	2.5 E-10	2.0 E-10

Tc-94m	0.867 h	1.000	1.3 E-09	0.500	6.5 E-10	3.3 E-10	1.9 E-10	1.3 E-10	1.0 E-10
Tc-95	20.0 h	1.000	9.9 E-10	0.500	8.7 E-10	5.0 E-10	3.3 E-10	2.3 E-10	1.8 E-10
Tc-95m	61.0 d	1.000	4.7 E-09	0.500	2.8 E-09	1.6 E-09	1.0 E-09	7.0 E-10	5.6 E-10
Tc-96	4.28 d	1.000	6.7 E-09	0.500	5.1 E-09	3.0 E-09	2.0 E-09	1.4 E-09	1.1 E-09
Tc-96m	0.858 h	1.000	1.0 E-10	0.500	6.5 E-11	3.6 E-11	2.3 E-11	1.6 E-11	1.2 E-11
Tc-97	2.60 E+06a	1.000	9.9 E-10	0.500	4.9 E-10	2.4 E-10	1.4 E-10	8.8 E-11	6.8 E-11
Tc-97m	87.0 d	1.000	8.7 E-09	0.500	4.1 E-09	2.0 E-09	1.1 E-09	7.0 E-10	5.5 E-10
Tc-98	4.20 E+06a	1.000	2.3 E-08	0.500	1.2 E-08	6.1 E-09	3.7 E-09	2.5 E-09	2.0 E-09
Tc-99	2.13 E+05a	1.000	1.0 E-08	0.500	4.8 E-09	2.3 E-09	1.3 E-09	8.2 E-10	6.4 E-10
Tc-99m	6.02 h	1.000	2.0 E-10	0.500	1.3 E-10	7.2 E-11	4.3 E-11	2.8 E-11	2.2 E-11
Tc-101	0.237 h	1.000	2.4 E-10	0.500	1.3 E-10	6.1 E-11	3.5 E-11	2.4 E-11	1.9 E-11
Tc-104	0.303 h	1.000	1.0 E-09	0.500	5.3 E-10	2.6 E-10	1.5 E-10	1.0 E-10	8.0 E-11
Rutenij									
Ru-94	0.863 h	0.100	9.3 E-10	0.050	5.9 E-10	3.1 E-10	1.9 E-10	1.2 E-10	9.4 E-11
Ru-97	2.90 d	0.100	1.2 E-09	0.050	8.5 E-10	4.7 E-10	3.0 E-10	1.9 E-10	1.5 E-10
Ru-103	39.3 d	0.100	7.1 E-09	0.050	4.6 E-09	2.4 E-09	1.5 E-09	9.2 E-10	7.3 E-10
Ru-105	4.44 h	0.100	2.7 E-09	0.050	1.8 E-09	9.1 E-10	5.5 E-10	3.3 E-10	2.6 E-10
Ru-106	1.01 a	0.100	8.4 E-08	0.050	4.9 E-08	2.5 E-08	1.5 E-08	8.6 E-09	7.0 E-09
Rodij									
Rh-99	16.0 d	0.100	4.2 E-09	0.050	2.9 E-09	1.6 E-09	1.0 E-09	6.5 E-10	5.1 E-10
Rh-99m	4.70 h	0.100	4.9 E-10	0.050	3.5 E-10	2.0 E-10	1.3 E-10	8.3 E-11	6.6 E-11
Rh-100	20.8 h	0.100	4.9 E-09	0.050	3.6 E-09	2.0 E-09	1.4 E-09	8.8 E-10	7.1 E-10
Rh-101	3.20 a	0.100	4.9 E-09	0.050	2.8 E-09	1.6 E-09	1.0 E-09	6.7 E-10	5.5 E-10
Rh-101m	4.34 d	0.100	1.7 E-09	0.050	1.2 E-09	6.8 E-10	4.4 E-10	2.8 E-10	2.2 E-10
Rh-102	2.90 a	0.100	1.9 E-08	0.050	1.0 E-08	6.4 E-09	4.3 E-09	3.0 E-09	2.6 E-09
Rh-102m	207 d	0.100	1.2 E-08	0.050	7.4 E-09	3.9 E-09	2.4 E-09	1.4 E-09	1.2 E-09
Rh-103m	0.935 h	0.100	4.7 E-11	0.050	2.7 E-11	1.3 E-11	7.4 E-12	4.8 E-12	3.8 E-12
Rh-105	1.47 d	0.100	4.0 E-09	0.050	2.7 E-09	1.3 E-09	8.0 E-10	4.6 E-10	3.7 E-10
Rh-106m	2.20 h	0.100	1.4 E-09	0.050	9.7 E-10	5.3 E-10	3.3 E-10	2.0 E-10	1.6 E-10
Rh-107	0.362 h	0.100	2.9 E-10	0.050	1.6 E-10	7.9 E-11	4.5 E-11	3.1 E-11	2.4 E-11
Paladij									
Pd-100	3.63 d	0.050	7.4 E-09	0.005	5.2 E-09	2.9 E-09	1.9 E-09	1.2 E-09	9.4 E-10
Pd-101	8.27 h	0.050	8.2 E-10	0.005	5.7 E-10	3.1 E-10	1.9 E-10	1.2 E-10	9.4 E-11
Pd-103	17.0 d	0.050	2.2 E-09	0.005	1.4 E-09	7.2 E-10	4.3 E-10	2.4 E-10	1.9 E-10
Pd-107	6.50 E+06a	0.050	4.4 E-10	0.005	2.8 E-10	1.4 E-10	8.1 E-11	4.6 E-11	3.7 E-11
Pd-109	13.4 h	0.050	6.3 E-09	0.005	4.1 E-09	2.0 E-09	1.2 E-09	6.8 E-10	5.5 E-10
Srebro									
Ag-102	0.215 h	0.100	4.2 E-10	0.050	2.4 E-10	1.2 E-10	7.3 E-11	5.0 E-11	4.0 E-11
Ag-103	1.09 h	0.100	4.5 E-10	0.050	2.7 E-10	1.4 E-10	8.3 E-11	5.5 E-11	4.3 E-11
Ag-104	1.15 h	0.100	4.3 E-10	0.050	2.9 E-10	1.7 E-10	1.1 E-10	7.5 E-11	6.0 E-11
Ag-104m	0.558 h	0.100	5.6 E-10	0.050	3.3 E-10	1.7 E-10	1.0 E-10	6.8 E-11	5.4 E-11
Ag-105	41.0 d	0.100	3.9 E-09	0.050	2.5 E-09	1.4 E-09	9.1 E-10	5.9 E-10	4.7 E-10
Ag-106	0.399 h	0.100	3.7 E-10	0.050	2.1 E-10	1.0 E-10	6.0 E-11	4.1 E-11	3.2 E-11
Ag-106m	8.41 d	0.100	9.7 E-09	0.050	6.9 E-09	4.1 E-09	2.8 E-09	1.8 E-09	1.5 E-09
Ag-108m	1.27 E+02a	0.100	2.1 E-08	0.050	1.1 E-08	6.5 E-09	4.3 E-09	2.8 E-09	2.3 E-09
Ag-110m	250 d	0.100	2.4 E-08	0.050	1.4 E-08	7.8 E-09	5.2 E-09	3.4 E-09	2.8 E-09
Ag-111	7.45 d	0.100	1.4 E-08	0.050	9.3 E-09	4.6 E-09	2.7 E-09	1.6 E-09	1.3 E-09
Ag-112	3.12 h	0.100	4.9 E-09	0.050	3.0 E-09	1.5 E-09	8.9 E-10	5.4 E-10	4.3 E-10
Ag-115	0.333 h	0.100	7.2 E-10	0.050	4.1 E-10	2.0 E-10	1.2 E-10	7.7 E-11	6.0 E-11

Kadmij									
Cd-104	0.961 h	0.100	4.2 E-10	0.050	2.9 E-10	1.7 E-10	1.1 E-10	7.2 E-11	5.4 E-11
Cd-107	6.49 h	0.100	7.1 E-10	0.050	4.6 E-10	2.3 E-10	1.3 E-10	7.8 E-11	6.2 E-11
Cd-109	1.27 a	0.100	2.1 E-08	0.050	9.5 E-09	5.5 E-09	3.5 E-09	2.4 E-09	2.0 E-09
Cd-113	9.30 E+15a	0.100	1.0 E-07	0.050	4.8 E-08	3.7 E-08	3.0 E-08	2.6 E-08	2.5 E-08
Cd-113m	13.6 a	0.100	1.2 E-07	0.050	5.6 E-08	3.9 E-08	2.9 E-08	2.4 E-08	2.3 E-08
Cd-115	2.23 d	0.100	1.4 E-08	0.050	9.7 E-09	4.9 E-09	2.9 E-09	1.7 E-09	1.4 E-09
Cd-115m	44.6 d	0.100	4.1 E-08	0.050	1.9 E-08	9.7 E-09	6.9 E-09	4.1 E-09	3.3 E-09
Cd-117	2.49 h	0.100	2.9 E-09	0.050	1.9 E-09	9.5 E-10	5.7 E-10	3.5 E-10	2.8 E-10
Cd-117m	3.36 h	0.100	2.6 E-09	0.050	1.7 E-09	9.0 E-10	5.6 E-10	3.5 E-10	2.8 E-10
Indij									
In-109	4.20 h	0.040	5.2 E-10	0.020	3.6 E-10	2.0 E-10	1.3 E-10	8.2 E-11	6.6 E-11
In-110	4.90 h	0.040	1.5 E-09	0.020	1.1 E-09	6.5 E-10	4.4 E-10	3.0 E-10	2.4 E-10
In-110	1.15 h	0.040	1.1 E-09	0.020	6.4 E-10	3.2 E-10	1.9 E-10	1.3 E-10	1.0 E-10
In-111	2.83 d	0.040	2.4 E-09	0.020	1.7 E-09	9.1 E-10	5.9 E-10	3.7 E-10	2.9 E-10
In-112	0.240 h	0.040	1.2 E-10	0.020	6.7 E-11	3.3 E-11	1.9 E-11	1.3 E-11	1.0 E-11
In-113m	1.66 h	0.040	3.0 E-10	0.020	1.8 E-10	9.3 E-11	6.2 E-11	3.6 E-11	2.8 E-11
In-114m	49.5 d	0.040	5.6 E-08	0.020	3.1 E-08	1.5 E-08	9.0 E-09	5.2 E-09	4.1 E-09
In-115	5.10 E+15a	0.040	1.3 E-07	0.020	6.4 E-08	4.8 E-08	4.3 E-08	3.6 E-08	3.2 E-08
In-115m	4.49 h	0.040	9.6 E-10	0.020	6.0 E-10	3.0 E-10	1.8 E-10	1.1 E-10	8.6 E-11
In-116m	0.902 h	0.040	5.8 E-10	0.020	3.6 E-10	1.9 E-10	1.2 E-10	8.0 E-11	6.4 E-11
In-117	0.730 h	0.040	3.3 E-10	0.020	1.9 E-10	9.7 E-11	5.8 E-11	3.9 E-11	3.1 E-11
In-117m	1.94 h	0.040	1.4 E-09	0.020	8.6 E-10	4.3 E-10	2.5 E-10	1.6 E-10	1.2 E-10
In-119m	0.300 h	0.040	5.9 E-10	0.020	3.2 E-10	1.6 E-10	8.8 E-11	6.0 E-11	4.7 E-11
Kositar									
Sn-110	4.00 h	0.040	3.5 E-09	0.020	2.3 E-09	1.2 E-09	7.4 E-10	4.4 E-10	3.5 E-10
Sn-111	0.588 h	0.040	2.5 E-10	0.020	1.5 E-10	7.4 E-11	4.4 E-11	3.0 E-11	2.3 E-11
Sn-113	115 d	0.040	7.8 E-09	0.020	5.0 E-09	2.6 E-09	1.6 E-09	9.2 E-10	7.3 E-10
Sn-117m	13.6 d	0.040	7.7 E-09	0.020	5.0 E-09	2.5 E-09	1.5 E-09	8.8 E-10	7.1 E-10
Sn-119m	293 d	0.040	4.1 E-09	0.020	2.5 E-09	1.3 E-09	7.5 E-10	4.3 E-10	3.4 E-10
Sn-121	1.13 d	0.040	2.6 E-09	0.020	1.7 E-09	8.4 E-10	5.0 E-10	2.8 E-10	2.3 E-10
Sn-121m	55.0 a	0.040	4.6 E-09	0.020	2.7 E-09	1.4 E-09	8.2 E-10	4.7 E-10	3.8 E-10
Sn-123	129 d	0.040	2.5 E-08	0.020	1.6 E-08	7.8 E-09	4.6 E-09	2.6 E-09	2.1 E-09
Sn-123m	0.668 h	0.040	4.7 E-10	0.020	2.6 E-10	1.3 E-10	7.3 E-11	4.9 E-11	3.8 E-11
Sn-125	9.64 d	0.040	3.5 E-08	0.020	2.2 E-08	1.1 E-08	6.7 E-09	3.8 E-09	3.1 E-09
Sn-126	1.00 E+05a	0.040	5.0 E-08	0.020	3.0 E-08	1.6 E-08	9.8 E-09	5.9 E-09	4.7 E-09
Sn-127	2.10 h	0.040	2.0 E-09	0.020	1.3 E-09	6.6 E-10	4.0 E-10	2.5 E-10	2.0 E-10
Sn-128	0.985 h	0.040	1.6 E-09	0.020	9.7 E-10	4.9 E-10	3.0 E-10	1.9 E-10	1.5 E-10
Antimon									
Sb-115	0.530 h	0.200	2.5 E-10	0.100	1.5 E-10	7.5 E-11	4.5 E-11	3.1 E-11	2.4 E-11
Sb-116	0.263 h	0.200	2.7 E-10	0.100	1.6 E-10	8.0 E-11	4.8 E-11	3.3 E-11	2.6 E-11
Sb-116m	1.00 h	0.200	5.0 E-10	0.100	3.3 E-10	1.9 E-10	1.2 E-10	8.3 E-11	6.7 E-11
Sb-117	2.80 h	0.200	1.6 E-10	0.100	1.0 E-10	5.6 E-11	3.5 E-11	2.2 E-11	1.8 E-11
Sb-118m	5.00 h	0.200	1.3 E-09	0.100	1.0 E-09	5.8 E-10	3.9 E-10	2.6 E-10	2.1 E-10
Sb-119	1.59 d	0.200	8.4 E-10	0.100	5.8 E-10	3.0 E-10	1.8 E-10	1.0 E-10	8.0 E-11
Sb-120	5.76 d	0.200	8.1 E-09	0.100	6.0 E-09	3.5 E-09	2.3 E-09	1.6 E-09	1.2 E-09
Sb-120	0.265 h	0.200	1.7 E-10	0.100	9.4 E-11	4.6 E-11	2.7 E-11	1.8 E-11	1.4 E-11
Sb-122	2.70 d	0.200	1.8 E-08	0.100	1.2 E-08	6.1 E-09	3.7 E-09	2.1 E-09	1.7 E-09
Sb-124	60.2 d	0.200	2.5 E-08	0.100	1.6 E-08	8.4 E-09	5.2 E-09	3.2 E-09	2.5 E-09

Sb-124m	0.337 h	0.200	8.5 E-11	0.100	4.9 E-11	2.5 E-11	1.5 E-11	1.0 E-11	8.0 E-12
Sb-125	2.77 a	0.200	1.1 E-08	0.100	6.1 E-09	3.4 E-09	2.1 E-09	1.4 E-09	1.1 E-09
Sb-126	12.4 d	0.200	2.0 E-08	0.100	1.4 E-08	7.6 E-09	4.9 E-09	3.1 E-09	2.4 E-09
Sb-126m	0.317 h	0.200	3.9 E-10	0.100	2.2 E-10	1.1 E-10	6.6 E-11	4.5 E-11	3.6 E-11
Sb-127	3.85 d	0.200	1.7 E-08	0.100	1.2 E-08	5.9 E-09	3.6 E-09	2.1 E-09	1.7 E-09
Sb-128	9.01 h	0.200	6.3 E-09	0.100	4.5 E-09	2.4 E-09	1.5 E-09	9.5 E-10	7.6 E-10
Sb-128	0.173 h	0.200	3.7 E-10	0.100	2.1 E-10	1.0 E-10	6.0 E-11	4.1 E-11	3.3 E-11
Sb-129	4.32 h	0.200	4.3 E-09	0.100	2.8 E-09	1.5 E-09	8.8 E-10	5.3 E-10	4.2 E-10
Sb-130	0.667 h	0.200	9.1 E-10	0.100	5.4 E-10	2.8 E-10	1.7 E-10	1.2 E-10	9.1 E-11
Sb-131	0.383 h	0.200	1.1 E-09	0.100	7.3 E-10	3.9 E-10	2.1 E-10	1.4 E-10	1.0 E-10
Telur									
Te-116	2.49 h	0.600	1.4 E-09	0.300	1.0 E-09	5.5 E-10	3.4 E-10	2.1 E-10	1.7 E-10
Te-121	17.0 d	0.600	3.1 E-09	0.300	2.0 E-09	1.2 E-09	8.0 E-10	5.4 E-10	4.3 E-10
Te-121m	154 d	0.600	2.7 E-08	0.300	1.2 E-08	6.9 E-09	4.2 E-09	2.8 E-09	2.3 E-09
Te-123	1.00 E+13a	0.600	2.0 E-08	0.300	9.3 E-09	6.9 E-09	5.4 E-09	4.7 E-09	4.4 E-09
Te-123m	120 d	0.600	1.9 E-08	0.300	8.8 E-09	4.9 E-09	2.8 E-09	1.7 E-09	1.4 E-09
Te-125m	58.0 d	0.600	1.3 E-08	0.300	6.3 E-09	3.3 E-09	1.9 E-09	1.1 E-09	8.7 E-10
Te-127	9.35 h	0.600	1.5 E-09	0.300	1.2 E-09	6.2 E-10	3.6 E-10	2.1 E-10	1.7 E-10
Te-127m	109 d	0.600	4.1 E-08	0.300	1.8 E-08	9.5 E-09	5.2 E-09	3.0 E-09	2.3 E-09
Te-129	1.16 h	0.600	7.5 E-10	0.300	4.4 E-10	2.1 E-10	1.2 E-10	8.0 E-11	6.3 E-11
Te-129m	33.6 d	0.600	4.4 E-08	0.300	2.4 E-08	1.2 E-08	6.6 E-09	3.9 E-09	3.0 E-09
Te-131	0.417 h	0.600	9.0 E-10	0.300	6.6 E-10	3.5 E-10	1.9 E-10	1.2 E-10	8.7 E-11
Te-131m	1.25 d	0.600	2.0 E-08	0.300	1.4 E-08	7.8 E-09	4.3 E-09	2.7 E-09	1.9 E-09
Te-132	3.26 d	0.600	4.8 E-08	0.300	3.0 E-08	1.6 E-08	8.3 E-09	5.3 E-09	3.8 E-09
Te-133	0.207 h	0.600	8.4 E-10	0.300	6.3 E-10	3.3 E-10	1.6 E-10	1.1 E-10	7.2 E-11
Te-133m	0.923 h	0.600	3.1 E-09	0.300	2.4 E-09	1.3 E-09	6.3 E-10	4.1 E-10	2.8 E-10
Te-134	0.696 h	0.600	1.1 E-09	0.300	7.5 E-10	3.9 E-10	2.2 E-10	1.4 E-10	1.1 E-10
Jod									
I-120	1.35 h	1.000	3.9 E-09	1.000	2.8 E-09	1.4 E-09	7.2 E-10	4.8 E-10	3.4 E-10
I-120m	0.883 h	1.000	2.3 E-09	1.000	1.5 E-09	7.8 E-10	4.2 E-10	2.9 E-10	2.1 E-10
I-121	2.12 h	1.000	6.2 E-10	1.000	5.3 E-10	3.1 E-10	1.7 E-10	1.2 E-10	8.2 E-11
I-123	13.2 h	1.000	2.2 E-09	1.000	1.9 E-09	1.1 E-09	4.9 E-10	3.3 E-10	2.1 E-10
I-124	4.18 d	1.000	1.2 E-07	1.000	1.1 E-07	6.3 E-08	3.1 E-08	2.0 E-08	1.3 E-08
I-125	60.1 d	1.000	5.2 E-08	1.000	5.7 E-08	4.1 E-08	3.1 E-08	2.2 E-08	1.5 E-08
I-126	13.0 d	1.000	2.1 E-07	1.000	2.1 E-07	1.3 E-07	6.8 E-08	4.5 E-08	2.9 E-08
I-128	0.416 h	1.000	5.7 E-10	1.000	3.3 E-10	1.6 E-10	8.9 E-11	6.0 E-11	4.6 E-11
I-129	1.57 E+07a	1.000	1.8 E-07	1.000	2.2 E-07	1.7 E-07	1.9 E-07	1.4 E-07	1.1 E-07
I-130	12.4 h	1.000	2.1 E-08	1.000	1.8 E-08	9.8 E-09	4.6 E-09	3.0 E-09	2.0 E-09
I-131	8.04 d	1.000	1.8 E-07	1.000	1.8 E-07	1.0 E-07	5.2 E-08	3.4 E-08	2.2 E-08
I-132	2.30 h	1.000	3.0 E-09	1.000	2.4 E-09	1.3 E-09	6.2 E-10	4.1 E-10	2.9 E-10
I-132m	1.39 h	1.000	2.4 E-09	1.000	2.0 E-09	1.1 E-09	5.0 E-10	3.3 E-10	2.2 E-10
I-133	20.8 h	1.000	4.9 E-08	1.000	4.4 E-08	2.3 E-08	1.0 E-08	6.8 E-09	4.3 E-09
I-134	0.876 h	1.000	1.1 E-09	1.000	7.5 E-10	3.9 E-10	2.1 E-10	1.4 E-10	1.1 E-10
I-135	6.61 h	1.000	1.0 E-08	1.000	8.9 E-09	4.7 E-09	2.2 E-09	1.4 E-09	9.3 E-10
Cezij									
Cs-125	0.750 h	1.000	3.9 E-10	1.000	2.2 E-10	1.1 E-10	6.5 E-11	4.4 E-11	3.5 E-11
Cs-127	6.25 h	1.000	1.8 E-10	1.000	1.2 E-10	6.6 E-11	4.2 E-11	2.9 E-11	2.4 E-11
Cs-129	1.34 d	1.000	4.4 E-10	1.000	3.0 E-10	1.7 E-10	1.1 E-10	7.2 E-11	6.0 E-11
Cs-130	0.498 h	1.000	3.3 E-10	1.000	1.8 E-10	9.0 E-11	5.2 E-11	3.6 E-11	2.8 E-11

Cs-131	9.69 d	1.000	4.6 E-10	1.000	2.9 E-10	1.6 E-10	1.0 E-10	6.9 E-11	5.8 E-11
Cs-132	6.48 d	1.000	2.7 E-09	1.000	1.8 E-09	1.1 E-09	7.7 E-10	5.7 E-10	5.0 E-10
Cs-134	2.06 a	1.000	2.6 E-08	1.000	1.6 E-08	1.3 E-08	1.4 E-08	1.9 E-08	1.9 E-08
Cs-134m	2.90 h	1.000	2.1 E-10	1.000	1.2 E-10	5.9 E-11	3.5 E-11	2.5 E-11	2.0 E-11
Cs-135	2.30 E+06a	1.000	4.1 E-09	1.000	2.3 E-09	1.7 E-09	1.7 E-09	2.0 E-09	2.0 E-09
Cs-135m	0.883 h	1.000	1.3 E-10	1.000	8.6 E-11	4.9 E-11	3.2 E-11	2.3 E-11	1.9 E-11
Cs-136	13.1 d	1.000	1.5 E-08	1.000	9.5 E-09	6.1 E-09	4.4 E-09	3.4 E-09	3.0 E-09
Cs-137	30.0 a	1.000	2.1 E-08	1.000	1.2 E-08	9.6 E-09	1.0 E-08	1.3 E-08	1.3 E-08
Cs-138	0.536 h	1.000	1.1 E-09	1.000	5.9 E-10	2.9 E-10	1.7 E-10	1.2 E-10	9.2 E-11
Barij									
Ba-126	1.61 h	0.600	2.7 E-09	0.200	1.7 E-09	8.5 E-10	5.0 E-10	3.1 E-10	2.6 E-10
Ba-128	2.43 d	0.600	2.0 E-08	0.200	1.7 E-08	9.0 E-09	5.2 E-09	3.0 E-09	2.7 E-09
Ba-131	11.8 d	0.600	4.2 E-09	0.200	2.6 E-09	1.4 E-09	9.4 E-10	6.2 E-10	4.5 E-10
Ba-131m	0.243 h	0.600	5.8 E-11	0.200	3.2 E-11	1.6 E-11	9.3 E-12	6.3 E-12	4.9 E-12
Ba-133	10.7 a	0.600	2.2 E-08	0.200	6.2 E-09	3.9 E-09	4.6 E-09	7.3 E-09	1.5 E-09
Ba-133m	1.62 d	0.600	4.2 E-09	0.200	3.6 E-09	1.8 E-09	1.1 E-09	5.9 E-10	5.4 E-10
Ba-135m	1.20 d	0.600	3.3 E-09	0.200	2.9 E-09	1.5 E-09	8.5 E-10	4.7 E-10	4.3 E-10
Ba-139	1.38 h	0.600	1.4 E-09	0.200	8.4 E-10	4.1 E-10	2.4 E-10	1.5 E-10	1.2 E-10
Ba-140	12.7 d	0.600	3.2 E-08	0.200	1.8 E-08	9.2 E-09	5.8 E-09	3.7 E-09	2.6 E-09
Ba-141	0.305 h	0.600	7.6 E-10	0.200	4.7 E-10	2.3 E-10	1.3 E-10	8.6 E-11	7.0 E-11
Ba-142	0.177 h	0.600	3.6 E-10	0.200	2.2 E-10	1.1 E-10	6.6 E-11	4.3 E-11	3.5 E-11
Lantan									
La-131	0.983 h	0.005	3.5 E-10	5.0 E-04	2.1 E-10	1.1 E-10	6.6 E-11	4.4 E-11	3.5 E-11
La-132	4.80 h	0.005	3.8 E-09	5.0 E-04	2.4 E-09	1.3 E-09	7.8 E-10	4.8 E-10	3.9 E-10
La-135	19.5 h	0.005	2.8 E-10	5.0 E-04	1.9 E-10	1.0 E-10	6.4 E-11	3.9 E-11	3.0 E-11
La-137	6.00 E+04a	0.005	1.1 E-09	5.0 E-04	4.5 E-10	2.5 E-10	1.6 E-10	1.0 E-10	8.1 E-11
La-138	1.35 E+11a	0.005	1.3 E-08	5.0 E-04	4.6 E-09	2.7 E-09	1.9 E-09	1.3 E-09	1.1 E-09
La-140	1.68 d	0.005	2.0 E-08	5.0 E-04	1.3 E-08	6.8 E-09	4.2 E-09	2.5 E-09	2.0 E-09
La-141	3.93 h	0.005	4.3 E-09	5.0 E-04	2.6 E-09	1.3 E-09	7.6 E-10	4.5 E-10	3.6 E-10
La-142	1.54 h	0.005	1.9 E-09	5.0 E-04	1.1 E-09	5.8 E-10	3.5 E-10	2.3 E-10	1.8 E-10
La-143	0.237 h	0.005	6.9 E-10	5.0 E-04	3.9 E-10	1.9 E-10	1.1 E-10	7.1 E-11	5.6 E-11
Cerij									
Ce-134	3.00 d	0.005	2.8 E-08	5.0 E-04	1.8 E-08	9.1 E-09	5.5 E-09	3.2 E-09	2.5 E-09
Ce-135	17.6 h	0.005	7.0 E-09	5.0 E-04	4.7 E-09	2.6 E-09	1.6 E-09	1.0 E-09	7.9 E-10
Ce-137	9.00 h	0.005	2.6 E-10	5.0 E-04	1.7 E-10	8.8 E-11	5.4 E-11	3.2 E-11	2.5 E-11
Ce-137m	1.43 d	0.005	6.1 E-09	5.0 E-04	3.9 E-09	2.0 E-09	1.2 E-09	6.8 E-10	5.4 E-10
Ce-139	138 d	0.005	2.6 E-09	5.0 E-04	1.6 E-09	8.6 E-10	5.4 E-10	3.3 E-10	2.6 E-10
Ce-141	32.5 d	0.005	8.1 E-09	5.0 E-04	5.1 E-09	2.6 E-09	1.5 E-09	8.8 E-10	7.1 E-10
Ce-143	1.38 d	0.005	1.2 E-08	5.0 E-04	8.0 E-09	4.1 E-09	2.4 E-09	1.4 E-09	1.1 E-09
Ce-144	284 d	0.005	6.6 E-08	5.0 E-04	3.9 E-08	1.9 E-08	1.1 E-08	6.5 E-09	5.2 E-09
Praezodij									
Pr-136	0.218 h	0.005	3.7 E-10	5.0 E-04	2.1 E-10	1.0 E-10	6.1 E-11	4.2 E-11	3.3 E-11
Pr-137	1.28 h	0.005	4.1 E-10	5.0 E-04	2.5 E-10	1.3 E-10	7.7 E-11	5.0 E-11	4.0 E-11
Pr-138m	2.10 h	0.005	1.0 E-09	5.0 E-04	7.4 E-10	4.1 E-10	2.6 E-10	1.6 E-10	1.3 E-10
Pr-139	4.51 h	0.005	3.2 E-10	5.0 E-04	2.0 E-10	1.1 E-10	6.5 E-11	4.0 E-11	3.1 E-11
Pr-142	19.1 h	0.005	1.5 E-08	5.0 E-04	9.8 E-09	4.9 E-09	2.9 E-09	1.6 E-09	1.3 E-09
Pr-142m	0.243 h	0.005	2.0 E-10	5.0 E-04	1.2 E-10	6.2 E-11	3.7 E-11	2.1 E-11	1.7 E-11
Pr-143	13.6 d	0.005	1.4 E-08	5.0 E-04	8.7 E-09	4.3 E-09	2.6 E-09	1.5 E-09	1.2 E-09

Pr-144	0.288 h	0.005	6.4 E-10	5.0 E-04	3.5 E-10	1.7 E-10	9.5 E-11	6.5 E-11	5.0 E-11
Pr-145	5.98 h	0.005	4.7 E-09	5.0 E-04	2.9 E-09	1.4 E-09	8.5 E-10	4.9 E-10	3.9 E-10
Pr-147	0.227 h	0.005	3.9 E-10	5.0 E-04	2.2 E-10	1.1 E-10	6.1 E-11	4.2 E-11	3.3 E-11
Neodij									
Nd-136	0.844 h	0.005	1.0 E-09	5.0 E-04	6.1 E-10	3.1 E-10	1.9 E-10	1.2 E-10	9.9 E-11
Nd-138	5.04 h	0.005	7.2 E-09	5.0 E-04	4.5 E-09	2.3 E-09	1.3 E-09	8.0 E-10	6.4 E-10
Nd-139	0.495 h	0.005	2.1 E-10	5.0 E-04	1.2 E-10	6.3 E-11	3.7 E-11	2.5 E-11	2.0 E-11
Nd-139m	5.50 h	0.005	2.1 E-09	5.0 E-04	1.4 E-09	7.8 E-10	5.0 E-10	3.1 E-10	2.5 E-10
Nd-141	2.49 h	0.005	7.8 E-11	5.0 E-04	5.0 E-11	2.7 E-11	1.6 E-11	1.0 E-11	8.3 E-12
Nd-147	11.0 d	0.005	1.2 E-08	5.0 E-04	7.8 E-09	3.9 E-09	2.3 E-09	1.3 E-09	1.1 E-09
Nd-149	1.73 h	0.005	1.4 E-09	5.0 E-04	8.7 E-10	4.3 E-10	2.6 E-10	1.6 E-10	1.2 E-10
Nd-151	0.207 h	0.005	3.4 E-10	5.0 E-04	2.0 E-10	9.7 E-11	5.7 E-11	3.8 E-11	3.0 E-11
Promecij									
Pm-141	0.348 h	0.005	4.2 E-10	5.0 E-04	2.4 E-10	1.2 E-10	6.8 E-11	4.6 E-11	3.6 E-11
Pm-143	265 d	0.005	1.9 E-09	5.0 E-04	1.2 E-09	6.7 E-10	4.4 E-10	2.9 E-10	2.3 E-10
Pm-144	363 d	0.005	7.6 E-09	5.0 E-04	4.7 E-09	2.7 E-09	1.8 E-09	1.2 E-09	9.7 E-10
Pm-145	17.7 a	0.005	1.5 E-09	5.0 E-04	6.8 E-10	3.7 E-10	2.3 E-10	1.4 E-10	1.1 E-10
Pm-146	5.53 a	0.005	1.0 E-08	5.0 E-04	5.1 E-09	2.8 E-09	1.8 E-09	1.1 E-09	9.0 E-10
Pm-147	2.62 a	0.005	3.6 E-09	5.0 E-04	1.9 E-09	9.6 E-10	5.7 E-10	3.2 E-10	2.6 E-10
Pm-148	5.37 d	0.005	3.0 E-08	5.0 E-04	1.9 E-08	9.7 E-09	5.8 E-09	3.3 E-09	2.7 E-09
Pm-148m	41.3 d	0.005	1.5 E-08	5.0 E-04	1.0 E-08	5.5 E-09	3.5 E-09	2.2 E-09	1.7 E-09
Pm-149	2.21 d	0.005	1.2 E-08	5.0 E-04	7.4 E-09	3.7 E-09	2.2 E-09	1.2 E-09	9.9 E-10
Pm-150	2.68 h	0.005	2.8 E-09	5.0 E-04	1.7 E-09	8.7 E-10	5.2 E-10	3.2 E-10	2.6 E-10
Pm-151	1.18 d	0.005	8.0 E-09	5.0 E-04	5.1 E-09	2.6 E-09	1.6 E-09	9.1 E-10	7.3 E-10
Samarij									
Sm-141	0.170 h	0.005	4.5 E-10	5.0 E-04	2.5 E-10	1.3 E-10	7.3 E-11	5.0 E-11	3.9 E-11
Sm-141m	0.377 h	0.005	7.0 E-10	5.0 E-04	4.0 E-10	2.0 E-10	1.2 E-10	8.2 E-11	6.5 E-11
Sm-142	1.21 h	0.005	2.2 E-09	5.0 E-04	1.3 E-09	6.2 E-10	3.6 E-10	2.4 E-10	1.9 E-10
Sm-145	340 d	0.005	2.4 E-09	5.0 E-04	1.4 E-09	7.3 E-10	4.5 E-10	2.7 E-10	2.1 E-10
Sm-146	1.03 E+08a	0.005	1.5 E-06	5.0 E-04	1.5 E-07	1.0 E-07	7.0 E-08	5.8 E-08	5.4 E-08
Sm-147	1.06 E+11a	0.005	1.4 E-06	5.0 E-04	1.4 E-07	9.2 E-08	6.4 E-08	5.2 E-08	4.9 E-08
Sm-151	90.0 a	0.005	1.5 E-09	5.0 E-04	6.4 E-10	3.3 E-10	2.0 E-10	1.2 E-10	9.8 E-11
Sm-153	1.95 d	0.005	8.4 E-09	5.0 E-04	5.4 E-09	2.7 E-09	1.6 E-09	9.2 E-10	7.4 E-10
Sm-155	0.368 h	0.005	3.6 E-10	5.0 E-04	2.0 E-10	9.7 E-11	5.5 E-11	3.7 E-11	2.9 E-11
Sm-156	9.40 h	0.005	2.8 E-09	5.0 E-04	1.8 E-09	9.0 E-10	5.4 E-10	3.1 E-10	2.5 E-10
Europij									
Eu-145	5.94 d	0.005	5.1 E-09	5.0 E-04	3.7 E-09	2.1 E-09	1.4 E-09	9.4 E-10	7.5 E-10
Eu-146	4.61 d	0.005	8.5 E-09	5.0 E-04	6.2 E-09	3.6 E-09	2.4 E-09	1.6 E-09	1.3 E-09
Eu-147	24.0 d	0.005	3.7 E-09	5.0 E-04	2.5 E-09	1.4 E-09	8.9 E-10	5.6 E-10	4.4 E-10
Eu-148	54.5 d	0.005	8.5 E-09	5.0 E-04	6.0 E-09	3.5 E-09	2.4 E-09	1.6 E-09	1.3 E-09
Eu-149	93.1 d	0.005	9.7 E-10	5.0 E-04	6.3 E-10	3.4 E-10	2.1 E-10	1.3 E-10	1.0 E-10
Eu-150	34.2 a	0.005	1.3 E-08	5.0 E-04	5.7 E-09	3.4 E-09	2.3 E-09	1.5 E-09	1.3 E-09
Eu-150	12.6 h	0.005	4.4 E-09	5.0 E-04	2.8 E-09	1.4 E-09	8.2 E-10	4.7 E-10	3.8 E-10
Eu-152	13.3 a	0.005	1.6 E-08	5.0 E-04	7.4 E-09	4.1 E-09	2.6 E-09	1.7 E-09	1.4 E-09
Eu-152m	9.32 h	0.005	5.7 E-09	5.0 E-04	3.6 E-09	1.8 E-09	1.1 E-09	6.2 E-10	5.0 E-10
Eu-154	8.80 a	0.005	2.5 E-08	5.0 E-04	1.2 E-08	6.5 E-09	4.1 E-09	2.5 E-09	2.0 E-09
Eu-155	4.96 a	0.005	4.3 E-09	5.0 E-04	2.2 E-09	1.1 E-09	6.8 E-10	4.0 E-10	3.2 E-10
Eu-156	15.2 d	0.005	2.2 E-08	5.0 E-04	1.5 E-08	7.5 E-09	4.6 E-09	2.7 E-09	2.2 E-09

Eu-157	15.1 h	0.005	6.7 E-09	5.0 E-04	4.3 E-09	2.2 E-09	1.3 E-09	7.5 E-10	6.0 E-10
Eu-158	0.765 h	0.005	1.1 E-09	5.0 E-04	6.2 E-10	3.1 E-10	1.8 E-10	1.2 E-10	9.4 E-11
Gadolinij									
Gd-145	0.382 h	0.005	4.5 E-10	5.0 E-04	2.6 E-10	1.3 E-10	8.1 E-11	5.6 E-11	4.4 E-11
Gd-146	48.3 d	0.005	9.4 E-09	5.0 E-04	6.0 E-09	3.2 E-09	2.0 E-09	1.2 E-09	9.6 E-10
Gd-147	1.59 d	0.005	4.5 E-09	5.0 E-04	3.2 E-09	1.8 E-09	1.2 E-09	7.7 E-10	6.1 E-10
Gd-148	93.0 a	0.005	1.7 E-06	5.0 E-04	1.6 E-07	1.1 E-07	7.3 E-08	5.9 E-08	5.6 E-08
Gd-149	9.40 d	0.005	4.0 E-09	5.0 E-04	2.7 E-09	1.5 E-09	9.3 E-10	5.7 E-10	4.5 E-10
Gd-151	120 d	0.005	2.1 E-09	5.0 E-04	1.3 E-09	6.8 E-10	4.2 E-10	2.4 E-10	2.0 E-10
Gd-152	1.08 E+14a	0.005	1.2 E-06	5.0 E-04	1.2 E-07	7.7 E-08	5.3 E-08	4.3 E-08	4.1 E-08
Gd-153	242 d	0.005	2.9 E-09	5.0 E-04	1.8 E-09	9.4 E-10	5.8 E-10	3.4 E-10	2.7 E-10
Gd-159	18.6 h	0.005	5.7 E-09	5.0 E-04	3.6 E-09	1.8 E-09	1.1 E-09	6.2 E-10	4.9 E-10
Terbij									
Tb-147	1.65 h	0.005	1.5 E-09	5.0 E-04	1.0 E-09	5.4 E-10	3.3 E-10	2.0 E-10	1.6 E-10
Tb-149	4.15 h	0.005	2.4 E-09	5.0 E-04	1.5 E-09	8.0 E-10	5.0 E-10	3.1 E-10	2.5 E-10
Tb-150	3.27 h	0.005	2.5 E-09	5.0 E-04	1.6 E-09	8.3 E-10	5.1 E-10	3.2 E-10	2.5 E-10
Tb-151	17.6 h	0.005	2.7 E-09	5.0 E-04	1.9 E-09	1.0 E-09	6.7 E-10	4.2 E-10	3.4 E-10
Tb-153	2.34 d	0.005	2.3 E-09	5.0 E-04	1.5 E-09	8.2 E-10	5.1 E-10	3.1 E-10	2.5 E-10
Tb-154	21.4 h	0.005	4.7 E-09	5.0 E-04	3.4 E-09	1.9 E-09	1.3 E-09	8.1 E-10	6.5 E-10
Tb-155	5.32 d	0.005	1.9 E-09	5.0 E-04	1.3 E-09	6.8 E-10	4.3 E-10	2.6 E-10	2.1 E-10
Tb-156	5.34 d	0.005	9.0 E-09	5.0 E-04	6.3 E-09	3.5 E-09	2.3 E-09	1.5 E-09	1.2 E-09
Tb-156m	1.02 d	0.005	1.5 E-09	5.0 E-04	1.0 E-09	5.6 E-10	3.5 E-10	2.2 E-10	1.7 E-10
Tb-156m	5.00 h	0.005	8.0 E-10	5.0 E-04	5.2 E-10	2.7 E-10	1.7 E-10	1.0 E-10	8.1 E-11
Tb-157	1.50 E+02a	0.005	4.9 E-10	5.0 E-04	2.2 E-10	1.1 E-10	6.8 E-11	4.1 E-11	3.4 E-11
Tb-158	1.50 E+02a	0.005	1.3 E-08	5.0 E-04	5.9 E-09	3.3 E-09	2.1 E-09	1.4 E-09	1.1 E-09
Tb-160	72.3 d	0.005	1.6 E-08	5.0 E-04	1.0 E-08	5.4 E-09	3.3 E-09	2.0 E-09	1.6 E-09
Tb-161	6.91 d	0.005	8.3 E-09	5.0 E-04	5.3 E-09	2.7 E-09	1.6 E-09	9.0 E-10	7.2 E-10
Disprozij									
Dy-155	10.0 h	0.005	9.7 E-10	5.0 E-04	6.8 E-10	3.8 E-10	2.5 E-10	1.6 E-10	1.3 E-10
Dy-157	8.10 h	0.005	4.4 E-10	5.0 E-04	3.1 E-10	1.8 E-10	1.2 E-10	7.7 E-11	6.1 E-11
Dy-159	144 d	0.005	1.0 E-09	5.0 E-04	6.4 E-10	3.4 E-10	2.1 E-10	1.3 E-10	1.0 E-10
Dy-165	2.33 h	0.005	1.3 E-09	5.0 E-04	7.9 E-10	3.9 E-10	2.3 E-10	1.4 E-10	1.1 E-10
Dy-166	3.40 d	0.005	1.9 E-08	5.0 E-04	1.2 E-08	6.0 E-09	3.6 E-09	2.0 E-09	1.6 E-09
Holmij									
Ho-155	0.800 h	0.005	3.8 E-10	5.0 E-04	2.3 E-10	1.2 E-10	7.1 E-11	4.7 E-11	3.7 E-11
Ho-157	0.210 h	0.005	5.8 E-11	5.0 E-04	3.6 E-11	1.9 E-11	1.2 E-11	8.1 E-12	6.5 E-12
Ho-159	0.550 h	0.005	7.1 E-11	5.0 E-04	4.3 E-11	2.3 E-11	1.4 E-11	9.9 E-12	7.9 E-12
Ho-161	2.50 h	0.005	1.4 E-10	5.0 E-04	8.1 E-11	4.2 E-11	2.5 E-11	1.6 E-11	1.3 E-11
Ho-162	0.250 h	0.005	3.5 E-11	5.0 E-04	2.0 E-11	1.0 E-11	6.0 E-12	4.2 E-12	3.3 E-12
Ho-162m	1.13 h	0.005	2.4 E-10	5.0 E-04	1.5 E-10	7.9 E-11	4.9 E-11	3.3 E-11	2.6 E-11
Ho-164	0.483 h	0.005	1.2 E-10	5.0 E-04	6.5 E-11	3.2 E-11	1.8 E-11	1.2 E-11	9.5 E-12
Ho-164m	0.625 h	0.005	2.0 E-10	5.0 E-04	1.1 E-10	5.5 E-11	3.2 E-11	2.1 E-11	1.6 E-11
Ho-166	1.12 d	0.005	1.6 E-08	5.0 E-04	1.0 E-08	5.2 E-09	3.1 E-09	1.7 E-09	1.4 E-09
Ho-166m	1.20 E+03a	0.005	2.6 E-08	5.0 E-04	9.3 E-09	5.3 E-09	3.5 E-09	2.4 E-09	2.0 E-09
Ho-167	3.10 h	0.005	8.8 E-10	5.0 E-04	5.5 E-10	2.8 E-10	1.7 E-10	1.0 E-10	8.3 E-11
Erbij									
Er-161	3.24 h	0.005	6.5 E-10	5.0 E-04	4.4 E-10	2.4 E-10	1.6 E-10	1.0 E-10	8.0 E-11

Er-165	10.4 h	0.005	1.7 E-10	5.0 E-04	1.1 E-10	6.2 E-11	3.9 E-11	2.4 E-11	1.9 E-11
Er-169	9.30 d	0.005	4.4 E-09	5.0 E-04	2.8 E-09	1.4 E-09	8.2 E-10	4.7 E-10	3.7 E-10
Er-171	7.52 h	0.005	4.0 E-09	5.0 E-04	2.5 E-09	1.3 E-09	7.6 E-10	4.5 E-10	3.6 E-10
Er-172	2.05 d	0.005	1.0 E-08	5.0 E-04	6.8 E-09	3.5 E-09	2.1 E-09	1.3 E-09	1.0 E-09
Tulij									
Tm-162	0.362 h	0.005	2.9 E-10	5.0 E-04	1.7 E-10	8.7 E-11	5.2 E-11	3.6 E-11	2.9 E-11
Tm-166	7.70 h	0.005	2.1 E-09	5.0 E-04	1.5 E-09	8.3 E-10	5.5 E-10	3.5 E-10	2.8 E-10
Tm-167	9.24 d	0.005	6.0 E-09	5.0 E-04	3.9 E-09	2.0 E-09	1.2 E-09	7.0 E-10	5.6 E-10
Tm-170	129 d	0.005	1.6 E-08	5.0 E-04	9.8 E-09	4.9 E-09	2.9 E-09	1.6 E-09	1.3 E-09
Tm-171	1.92 a	0.005	1.5 E-09	5.0 E-04	7.8 E-10	3.9 E-10	2.3 E-10	1.3 E-10	1.1 E-10
Tm-172	2.65 d	0.005	1.9 E-08	5.0 E-04	1.2 E-08	6.1 E-09	3.7 E-09	2.1 E-09	1.7 E-09
Tm-173	8.24 h	0.005	3.3 E-09	5.0 E-04	2.1 E-09	1.1 E-09	6.5 E-10	3.8 E-10	3.1 E-10
Tm-175	0.253 h	0.005	3.1 E-10	5.0 E-04	1.7 E-10	8.6 E-11	5.0 E-11	3.4 E-11	2.7 E-11
Iterbij									
Yb-162	0.315 h	0.005	2.2 E-10	5.0 E-04	1.3 E-10	6.9 E-11	4.2 E-11	2.9 E-11	2.3 E-11
Yb-166	2.36 d	0.005	7.7 E-09	5.0 E-04	5.4 E-09	2.9 E-09	1.9 E-09	1.2 E-09	9.5 E-10
Yb-167	0.292 h	0.005	7.0 E-11	5.0 E-04	4.1 E-11	2.1 E-11	1.2 E-11	8.4 E-12	6.7 E-12
Yb-169	32.0 d	0.005	7.1 E-09	5.0 E-04	4.6 E-09	2.4 E-09	1.5 E-09	8.8 E-10	7.1 E-10
Yb-175	4.19 d	0.005	5.0 E-09	5.0 E-04	3.2 E-09	1.6 E-09	9.5 E-10	5.4 E-10	4.4 E-10
Yb-177	1.90 h	0.005	1.0 E-09	5.0 E-04	6.8 E-10	3.4 E-10	2.0 E-10	1.1 E-10	8.8 E-11
Yb-178	1.23 h	0.005	1.4 E-09	5.0 E-04	8.4 E-10	4.2 E-10	2.4 E-10	1.5 E-10	1.2 E-10
Lutecij									
Lu-169	1.42 d	0.005	3.5 E-09	5.0 E-04	2.4 E-09	1.4 E-09	8.9 E-10	5.7 E-10	4.6 E-10
Lu-170	2.00 d	0.005	7.4 E-09	5.0 E-04	5.2 E-09	2.9 E-09	1.9 E-09	1.2 E-09	9.9 E-10
Lu-171	8.22 d	0.005	5.9 E-09	5.0 E-04	4.0 E-09	2.2 E-09	1.4 E-09	8.5 E-10	6.7 E-10
Lu-172	6.70 d	0.005	1.0 E-08	5.0 E-04	7.0 E-09	3.9 E-09	2.5 E-09	1.6 E-09	1.3 E-09
Lu-173	1.37 a	0.005	2.7 E-09	5.0 E-04	1.6 E-09	8.6 E-10	5.3 E-10	3.2 E-10	2.6 E-10
Lu-174	3.31 a	0.005	3.2 E-09	5.0 E-04	1.7 E-09	9.1 E-10	5.6 E-10	3.3 E-10	2.7 E-10
Lu-174m	142 d	0.005	6.2 E-09	5.0 E-04	3.8 E-09	1.9 E-09	1.1 E-09	6.6 E-10	5.3 E-10
Lu-176	3.60 E+10a	0.005	2.4 E-08	5.0 E-04	1.1 E-08	5.7 E-09	3.5 E-09	2.2 E-09	1.8 E-09
Lu-176m	3.68 h	0.005	2.0 E-09	5.0 E-04	1.2 E-09	6.0 E-10	3.5 E-10	2.1 E-10	1.7 E-10
Lu-177	6.71 d	0.005	6.1 E-09	5.0 E-04	3.9 E-09	2.0 E-09	1.2 E-09	6.6 E-10	5.3 E-10
Lu-177m	161 d	0.005	1.7 E-08	5.0 E-04	1.1 E-08	5.8 E-09	3.6 E-09	2.1 E-09	1.7 E-09
Lu-178	0.473 h	0.005	5.9 E-10	5.0 E-04	3.3 E-10	1.6 E-10	9.0 E-11	6.1 E-11	4.7 E-11
Lu-178m	0.378 h	0.005	4.3 E-10	5.0 E-04	2.4 E-10	1.2 E-10	7.1 E-11	4.9 E-11	3.8 E-11
Lu-179	4.59 h	0.005	2.4 E-09	5.0 E-04	1.5 E-09	7.5 E-10	4.4 E-10	2.6 E-10	2.1 E-10
Hafnij									
Hf-170	16.0 h	0.020	3.9 E-09	0.002	2.7 E-09	1.5 E-09	9.5 E-10	6.0 E-10	4.8 E-10
Hf-172	1.87 a	0.020	1.9 E-08	0.002	6.1 E-09	3.3 E-09	2.0 E-09	1.3 E-09	1.0 E-09
Hf-173	24.0 h	0.020	1.9 E-09	0.002	1.3 E-09	7.2 E-10	4.6 E-10	2.8 E-10	2.3 E-10
Hf-175	70.0 d	0.020	3.8 E-09	0.002	2.4 E-09	1.3 E-09	8.4 E-10	5.2 E-10	4.1 E-10
Hf-177m	0.856 h	0.020	7.8 E-10	0.002	4.7 E-10	2.5 E-10	1.5 E-10	1.0 E-10	8.1 E-11
Hf-178m	31.0 a	0.020	7.0 E-08	0.002	1.9 E-08	1.1 E-08	7.8 E-09	5.5 E-09	4.7 E-09
Hf-179m	25.1 d	0.020	1.2 E-08	0.002	7.8 E-09	4.1 E-09	2.6 E-09	1.6 E-09	1.2 E-09
Hf-180m	5.50 h	0.020	1.4 E-09	0.002	9.7 E-10	5.3 E-10	3.3 E-10	2.1 E-10	1.7 E-10
Hf-181	42.4 d	0.020	1.2 E-08	0.002	7.4 E-09	3.8 E-09	2.3 E-09	1.4 E-09	1.1 E-09
Hf-182	9.00 E+06a	0.020	5.6 E-08	0.002	7.9 E-09	5.4 E-09	4.0 E-09	3.3 E-09	3.0 E-09
Hf-182m	1.02 h	0.020	4.1 E-10	0.002	2.5 E-10	1.3 E-10	7.8 E-11	5.2 E-11	4.2 E-11

Hf-183	1.07 h	0.020	8.1 E-10	0.002	4.8 E-10	2.4 E-10	1.4 E-10	9.3 E-11	7.3 E-11
Hf-184	4.12 h	0.020	5.5 E-09	0.002	3.6 E-09	1.8 E-09	1.1 E-09	6.6 E-10	5.2 E-10
Tantal									
Ta-172	0.613 h	0.010	5.5 E-10	0.001	3.2 E-10	1.6 E-10	9.8 E-11	6.6 E-11	5.3 E-11
Ta-173	3.65 h	0.010	2.0 E-09	0.001	1.3 E-09	6.5 E-10	3.9 E-10	2.4 E-10	1.9 E-10
Ta-174	1.20 h	0.010	6.2 E-10	0.001	3.7 E-10	1.9 E-10	1.1 E-10	7.2 E-11	5.7 E-11
Ta-175	10.5 h	0.010	1.6 E-09	0.001	1.1 E-09	6.2 E-10	4.0 E-10	2.6 E-10	2.1 E-10
Ta-176	8.08 h	0.010	2.4 E-09	0.001	1.7 E-09	9.2 E-10	6.1 E-10	3.9 E-10	3.1 E-10
Ta-177	2.36 d	0.010	1.0 E-09	0.001	6.9 E-10	3.6 E-10	2.2 E-10	1.3 E-10	1.1 E-10
Ta-178	2.20 h	0.010	6.3 E-10	0.001	4.5 E-10	2.4 E-10	1.5 E-10	9.1 E-11	7.2 E-11
Ta-179	1.82 a	0.010	6.2 E-10	0.001	4.1 E-10	2.2 E-10	1.3 E-10	8.1 E-11	6.5 E-11
Ta-180	1.00 E+13a	0.010	8.1 E-09	0.001	5.3 E-09	2.8 E-09	1.7 E-09	1.1 E-09	8.4 E-10
Ta-180m	8.10 h	0.010	5.8 E-10	0.001	3.7 E-10	1.9 E-10	1.1 E-10	6.7 E-11	5.4 E-11
Ta-182	115 d	0.010	1.4 E-08	0.001	9.4 E-09	5.0 E-09	3.1 E-09	1.9 E-09	1.5 E-09
Ta-182m	0.264 h	0.010	1.4 E-10	0.001	7.5 E-11	3.7 E-11	2.1 E-11	1.5 E-11	1.2 E-11
Ta-183	5.10 d	0.010	1.4 E-08	0.001	9.3 E-09	4.7 E-09	2.8 E-09	1.6 E-09	1.3 E-09
Ta-184	8.70 h	0.010	6.7 E-09	0.001	4.4 E-09	2.3 E-09	1.4 E-09	8.5 E-10	6.8 E-10
Ta-185	0.816 h	0.010	8.3 E-10	0.001	4.6 E-10	2.3 E-10	1.3 E-10	8.6 E-11	6.8 E-11
Ta-186	0.175 h	0.010	3.8 E-10	0.001	2.1 E-10	1.1 E-10	6.1 E-11	4.2 E-11	3.3 E-11
Volfram									
W-176	2.30 h	0.600	6.8 E-10	0.300	5.5 E-10	3.0 E-10	2.0 E-10	1.3 E-10	1.0 E-10
W-177	2.25 h	0.600	4.4 E-10	0.300	3.2 E-10	1.7 E-10	1.1 E-10	7.2 E-11	5.8 E-11
W-178	21.7 d	0.600	1.8 E-09	0.300	1.4 E-09	7.3 E-10	4.5 E-10	2.7 E-10	2.2 E-10
W-179	0.625 h	0.600	3.4 E-11	0.300	2.0 E-11	1.0 E-11	6.2 E-12	4.2 E-12	3.3 E-12
W-181	121 d	0.600	6.3 E-10	0.300	4.7 E-10	2.5 E-10	1.6 E-10	9.5 E-11	7.6 E-11
W-185	75.1 d	0.600	4.4 E-09	0.300	3.3 E-09	1.6 E-09	9.7 E-10	5.5 E-10	4.4 E-10
W-187	23.9 h	0.600	5.5 E-09	0.300	4.3 E-09	2.2 E-09	1.3 E-09	7.8 E-10	6.3 E-10
W-188	69.4 d	0.600	2.1 E-08	0.300	1.5 E-08	7.7 E-09	4.6 E-09	2.6 E-09	2.1 E-09
Renij									
Re-177	0.233 h	1.000	2.5 E-10	0.800	1.4 E-10	7.2 E-11	4.1 E-11	2.8 E-11	2.2 E-11
Re-178	0.220 h	1.000	2.9 E-10	0.800	1.6 E-10	7.9 E-11	4.6 E-11	3.1 E-11	2.5 E-11
Re-181	20.0 h	1.000	4.2 E-09	0.800	2.8 E-09	1.4 E-09	8.2 E-10	5.4 E-10	4.2 E-10
Re-182	2.67 d	1.000	1.4 E-08	0.800	8.9 E-09	4.7 E-09	2.8 E-09	1.8 E-09	1.4 E-09
Re-182	12.7 h	1.000	2.4 E-09	0.800	1.7 E-09	8.9 E-10	5.2 E-10	3.5 E-10	2.7 E-10
Re-184	38.0 d	1.000	8.9 E-09	0.800	5.6 E-09	3.0 E-09	1.8 E-09	1.3 E-09	1.0 E-09
Re-184m	165 d	1.000	1.7 E-08	0.800	9.8 E-09	4.9 E-09	2.8 E-09	1.9 E-09	1.5 E-09
Re-186	3.78 d	1.000	1.9 E-08	0.800	1.1 E-08	5.5 E-09	3.0 E-09	1.9 E-09	1.5 E-09
Re-186m	2.00 E+05a	1.000	3.0 E-08	0.800	1.6 E-08	7.6 E-09	4.4 E-09	2.8 E-09	2.2 E-09
Re-187	5.00 E+10a	1.000	6.8 E-11	0.800	3.8 E-11	1.8 E-11	1.0 E-11	6.6 E-12	5.1 E-12
Re-188	17.0 h	1.000	1.7 E-08	0.800	1.1 E-08	5.4 E-09	2.9 E-09	1.8 E-09	1.4 E-09
Re-188m	0.310 h	1.000	3.8 E-10	0.800	2.3 E-10	1.1 E-10	6.1 E-11	4.0 E-11	3.0 E-11
Re-189	1.01 d	1.000	9.8 E-09	0.800	6.2 E-09	3.0 E-09	1.6 E-09	1.0 E-09	7.8 E-10
Osmij									
Os-180	0.366 h	0.020	1.6 E-10	0.010	9.8 E-11	5.1 E-11	3.2 E-11	2.2 E-11	1.7 E-11
Os-181	1.75 h	0.020	7.6 E-10	0.010	5.0 E-10	2.7 E-10	1.7 E-10	1.1 E-10	8.9 E-11
Os-182	22.0 h	0.020	4.6 E-09	0.010	3.2 E-09	1.7 E-09	1.1 E-09	7.0 E-10	5.6 E-10
Os-185	94.0 d	0.020	3.8 E-09	0.010	2.6 E-09	1.5 E-09	9.8 E-10	6.5 E-10	5.1 E-10
Os-189m	6.00 h	0.020	2.1 E-10	0.010	1.3 E-10	6.5 E-11	3.8 E-11	2.2 E-11	1.8 E-11

Os-191	15.4 d	0.020	6.3 E-09	0.010	4.1 E-09	2.1 E-09	1.2 E-09	7.0 E-10	5.7 E-10
Os-191m	13.0 h	0.020	1.1 E-09	0.010	7.1 E-10	3.5 E-10	2.1 E-10	1.2 E-10	9.6 E-11
Os-193	1.25 d	0.020	9.3 E-09	0.010	6.0 E-09	3.0 E-09	1.8 E-09	1.0 E-09	8.1 E-10
Os-194	6.00 a	0.020	2.9 E-08	0.010	1.7 E-08	8.8 E-09	5.2 E-09	3.0 E-09	2.4 E-09
Iridij									
Ir-182	0.250 h	0.020	5.3 E-10	0.010	3.0 E-10	1.5 E-10	8.9 E-11	6.0 E-11	4.8 E-11
Ir-184	3.02 h	0.020	1.5 E-09	0.010	9.7 E-10	5.2 E-10	3.3 E-10	2.1 E-10	1.7 E-10
Ir-185	14.0 h	0.020	2.4 E-09	0.010	1.6 E-09	8.6 E-10	5.3 E-10	3.3 E-10	2.6 E-10
Ir-186	15.8 h	0.020	3.8 E-09	0.010	2.7 E-09	1.5 E-09	9.6 E-10	6.1 E-10	4.9 E-10
Ir-186	1.75 h	0.020	5.8 E-10	0.010	3.6 E-10	2.1 E-10	1.3 E-10	7.7 E-11	6.1 E-11
Ir-187	10.5 h	0.020	1.1 E-09	0.010	7.3 E-10	3.9 E-10	2.5 E-10	1.5 E-10	1.2 E-10
Ir-188	1.73 d	0.020	4.6 E-09	0.010	3.3 E-09	1.8 E-09	1.2 E-09	7.9 E-10	6.3 E-10
Ir-189	13.3 d	0.020	2.5 E-09	0.010	1.7 E-09	8.6 E-10	5.2 E-10	3.0 E-10	2.4 E-10
Ir-190	12.1 d	0.020	1.0 E-08	0.010	7.1 E-09	3.9 E-09	2.5 E-09	1.6 E-09	1.2 E-09
Ir-190m	3.10 h	0.020	9.4 E-10	0.010	6.4 E-10	3.5 E-10	2.3 E-10	1.5 E-10	1.2 E-10
Ir-190m	1.20 h	0.020	7.9 E-11	0.010	5.0 E-11	2.6 E-11	1.6 E-11	1.0 E-11	8.0 E-12
Ir-192	74.0 d	0.020	1.3 E-08	0.010	8.7 E-09	4.6 E-09	2.8 E-09	1.7 E-09	1.4 E-09
Ir-192m	2.41 E+02a	0.020	2.8 E-09	0.010	1.4 E-09	8.3 E-10	5.5 E-10	3.7 E-10	3.1 E-10
Ir-193m	11.9 d	0.020	3.2 E-09	0.010	2.0 E-09	1.0 E-09	6.0 E-10	3.4 E-10	2.7 E-10
Ir-194	19.1 h	0.020	1.5 E-08	0.010	9.8 E-09	4.9 E-09	2.9 E-09	1.7 E-09	1.3 E-09
Ir-194m	171 d	0.020	1.7 E-08	0.010	1.1 E-08	6.4 E-09	4.1 E-09	2.6 E-09	2.1 E-09
Ir-195	2.50 h	0.020	1.2 E-09	0.010	7.3 E-10	3.6 E-10	2.1 E-10	1.3 E-10	1.0 E-10
Ir-195m	3.80 h	0.020	2.3 E-09	0.010	1.5 E-09	7.3 E-10	4.3 E-10	2.6 E-10	2.1 E-10
Platina									
Pt-186	2.00 h	0.020	7.8 E-10	0.010	5.3 E-10	2.9 E-10	1.8 E-10	1.2 E-10	9.3 E-11
Pt-188	10.2 d	0.020	6.7 E-09	0.010	4.5 E-09	2.4 E-09	1.5 E-09	9.5 E-10	7.6 E-10
Pt-189	10.9 h	0.020	1.1 E-09	0.010	7.4 E-10	3.9 E-10	2.5 E-10	1.5 E-10	1.2 E-10
Pt-191	2.80 d	0.020	3.1 E-09	0.010	2.1 E-09	1.1 E-09	6.9 E-10	4.2 E-10	3.4 E-10
Pt-193	50.0 a	0.020	3.7 E-10	0.010	2.4 E-10	1.2 E-10	6.9 E-11	3.9 E-11	3.1 E-11
Pt-193m	4.33 d	0.020	5.2 E-09	0.010	3.4 E-09	1.7 E-09	9.9 E-10	5.6 E-10	4.5 E-10
Pt-195m	4.02 d	0.020	7.1 E-09	0.010	4.6 E-09	2.3 E-09	1.4 E-09	7.9 E-10	6.3 E-10
Pt-197	18.3 h	0.020	4.7 E-09	0.010	3.0 E-09	1.5 E-09	8.8 E-10	5.1 E-10	4.0 E-10
Pt-197m	1.57 h	0.020	1.0 E-09	0.010	6.1 E-10	3.0 E-10	1.8 E-10	1.1 E-10	8.4 E-11
Pt-199	0.513 h	0.020	4.7 E-10	0.010	2.7 E-10	1.3 E-10	7.5 E-11	5.0 E-11	3.9 E-11
Pt-200	12.5 h	0.020	1.4 E-08	0.010	8.8 E-09	4.4 E-09	2.6 E-09	1.5 E-09	1.2 E-09
Zlato									
Au-193	17.6 h	0.200	1.2 E-09	0.100	8.8 E-10	4.6 E-10	2.8 E-10	1.7 E-10	1.3 E-10
Au-194	1.65 d	0.200	2.9 E-09	0.100	2.2 E-09	1.2 E-09	8.1 E-10	5.3 E-10	4.2 E-10
Au-195	183 d	0.200	2.4 E-09	0.100	1.7 E-09	8.9 E-10	5.4 E-10	3.2 E-10	2.5 E-10
Au-198	2.69 d	0.200	1.0 E-08	0.100	7.2 E-09	3.7 E-09	2.2 E-09	1.3 E-09	1.0 E-09
Au-198m	2.30 d	0.200	1.2 E-08	0.100	8.5 E-09	4.4 E-09	2.7 E-09	1.6 E-09	1.3 E-09
Au-199	3.14 d	0.200	4.5 E-09	0.100	3.1 E-09	1.6 E-09	9.5 E-10	5.5 E-10	4.4 E-10
Au-200	0.807 h	0.200	8.3 E-10	0.100	4.7 E-10	2.3 E-10	1.3 E-10	8.7 E-11	6.8 E-11
Au-200m	18.7 h	0.200	9.2 E-09	0.100	6.6 E-09	3.5 E-09	2.2 E-09	1.3 E-09	1.1 E-09
Au-201	0.440 h	0.200	3.1 E-10	0.100	1.7 E-10	8.2 E-11	4.6 E-11	3.1 E-11	2.4 E-11
Živa									
Hg -193	3.50 h	1.000	3.3 E-10	1.000	1.9 E-10	9.8 E-11	5.8 E-11	3.9 E-11	3.1 E-11
(organska)		0.800	4.7 E-10	0.400	4.4 E-10	2.2 E-10	1.4 E-10	8.3 E-11	6.6 E-11

Hg -193 (anorganska)	3.50 h	0.040	8.5 E-10	0.020	5.5 E-10	2.8 E-10	1.7 E-10	1.0 E-10	8.2 E-11
Hg -193m (organska)	11.1 h	1.000 0.800	1.1 E-09 1.6 E-09	1.000 0.400	6.8 E-10 1.8 E-09	3.7 E-10 9.5 E-10	2.3 E-10 6.0 E-10	1.5 E-10 3.7 E-10	1.3 E-10 3.0 E-10
Hg -193m (anorganska)	11.1 h	0.040	3.6 E-09	0.020	2.4 E-09	1.3 E-09	8.1 E-10	5.0 E-10	4.0 E-10
Hg -194 (organska)	2.60 E+02a	1.000 0.800	1.3 E-07 1.1 E-07	1.000 0.400	1.2 E-07 4.8 E-08	8.4 E-08 3.5 E-08	6.6 E-08 2.7 E-08	5.5 E-08 2.3 E-08	5.1 E-08 2.1 E-08
Hg -194 (anorganska)	2.60 E+02a	0.040	7.2 E-09	0.020	3.6 E-09	2.6 E-09	1.9 E-09	1.5 E-09	1.4 E-09
Hg -195 (organska)	9.90 h	1.000 0.800	3.0 E-10 4.6 E-10	1.000 0.400	2.0 E-10 4.8 E-10	1.0 E-10 2.5 E-10	6.4 E-11 1.5 E-10	4.2 E-11 9.3 E-11	3.4 E-11 7.5 E-11
Hg -195 (anorganska)	9.90 h	0.040	9.5 E-10	0.020	6.3 E-10	3.3 E-10	2.0 E-10	1.2 E-10	9.7 E-11
Hg -195m (organska)	1.73 d	1.000 0.800	2.1 E-09 2.6 E-09	1.000 0.400	1.3 E-09 2.8 E-09	6.8 E-10 1.4 E-09	4.2 E-10 8.7 E-10	2.7 E-10 5.1 E-10	2.2 E-10 4.1 E-10
Hg -195m (anorganska)	1.73 d	0.040	5.8 E-09	0.020	3.8 E-09	2.0 E-09	1.2 E-09	7.0 E-10	5.6 E-10
Hg -197 (organska)	2.67 d	1.000 0.800	9.7 E-10 1.3 E-09	1.000 0.400	6.2 E-10 1.2 E-09	3.1 E-10 6.1 E-10	1.9 E-10 3.7 E-10	1.2 E-10 2.2 E-10	9.9 E-11 1.7 E-10
Hg -197 (anorganska)	2.67 d	0.040	2.5 E-09	0.020	1.6 E-09	8.3 E-10	5.0 E-10	2.9 E-10	2.3 E-10
Hg -197m (organska)	23.8 h	1.000 0.800	1.5 E-09 2.2 E-09	1.000 0.400	9.5 E-10 2.5 E-09	4.8 E-10 1.2 E-09	2.9 E-10 7.3 E-10	1.8 E-10 4.2 E-10	1.5 E-10 3.4 E-10
Hg -197m (anorganska)	23.8 h	0.040	5.2 E-09	0.020	3.4 E-09	1.7 E-09	1.0 E-09	5.9 E-10	4.7 E-10
Ha-199m (organska)	0.710 h	1.000 0.800	3.4 E-10 3.6 E-10	1.000 0.400	1.9 E-10 2.1 E-10	9.3 E-11 1.0 E-10	5.3 E-11 5.8 E-11	3.6 E-11 3.9 E-11	2.8 E-11 3.1 E-11
Hg -199m (anorganska)	0.710 h	0.040	3.7 E-10	0.020	2.1 E-10	1.0 E-10	5.9 E-11	3.9 E-11	3.1 E-11
Hg -203 (organska)	46.6 d	1.000 0.800	1.5 E-08 1.3 E-08	1.000 0.400	1.1 E-08 6.4 E-09	5.7 E-09 3.4 E-09	3.6 E-09 2.1 E-09	2.3 E-09 1.3 E-09	1.9 E-09 1.1 E-09
Hg -203 (anorganska)	46.6 d	0.040	5.5 E-09	0.020	3.6 E-09	1.8 E-09	1.1 E-09	6.7 E-10	5.4 E-10
Talij									
Tl-194	0.550 h	1.000	6.1 E-11	1.000	3.9 E-11	2.2 E-11	1.4 E-11	1.0 E-11	8.1 E-12
Tl-194m	0.546 h	1.000	3.8 E-10	1.000	2.2 E-10	1.2 E-10	7.0 E-11	4.9 E-11	4.0 E-11
Tl-195	1.16 h	1.000	2.3 E-10	1.000	1.4 E-10	7.5 E-11	4.7 E-11	3.3 E-11	2.7 E-11
Tl-197	2.84 h	1.000	2.1 E-10	1.000	1.3 E-10	6.7 E-11	4.2 E-11	2.8 E-11	2.3 E-11
Tl-198	5.30 h	1.000	4.7 E-10	1.000	3.3 E-10	1.9 E-10	1.2 E-10	8.7 E-11	7.3 E-11
Tl-198m	1.87 h	1.000	4.8 E-10	1.000	3.0 E-10	1.6 E-10	9.7 E-11	6.7 E-11	5.4 E-11
Tl-199	7.42 h	1.000	2.3 E-10	1.000	1.5 E-10	7.7 E-11	4.8 E-11	3.2 E-11	2.6 E-11
Tl-200	1.09 d	1.000	1.3 E-09	1.000	9.1 E-10	5.3 E-10	3.5 E-10	2.4 E-10	2.0 E-10
Tl-201	3.04 d	1.000	8.4 E-10	1.000	5.5 E-10	2.9 E-10	1.8 E-10	1.2 E-10	9.5 E-11
Tl-202	12.2 d	1.000	2.9 E-09	1.000	2.1 E-09	1.2 E-09	7.9 E-10	5.4 E-10	4.5 E-10
Tl-204	3.78 a	1.000	1.3 E-08	1.000	8.5 E-09	4.2 E-09	2.5 E-09	1.5 E-09	1.2 E-09
Olovo									
Pb-195m	0.263 h	0.600	2.6 E-10	0.200	1.6 E-10	8.4 E-11	5.2 E-11	3.5 E-11	2.9 E-11
Pb-198	2.40 h	0.600	5.9 E-10	0.200	4.8 E-10	2.7 E-10	1.7 E-10	1.1 E-10	1.0 E-10

Pb-199	1.50 h	0.600	3.5 E-10	0.200	2.6 E-10	1.5 E-10	9.4 E-11	6.3 E-11	5.4 E-11
Pb-200	21.5 h	0.600	2.5 E-09	0.200	2.0 E-09	1.1 E-09	7.0 E-10	4.4 E-10	4.0 E-10
Pb-201	9.40 h	0.600	9.4 E-10	0.200	7.8 E-10	4.3 E-10	2.7 E-10	1.8 E-10	1.6 E-10
Pb-202	3.00 E+05a	0.600	3.4 E-08	0.200	1.6 E-08	1.3 E-08	1.9 E-08	2.7 E-08	8.8 E-09
Pb-202m	3.62 h	0.600	7.6 E-10	0.200	6.1 E-10	3.5 E-10	2.3 E-10	1.5 E-10	1.3 E-10
Pb-203	2.17 d	0.600	1.6 E-09	0.200	1.3 E-09	6.8 E-10	4.3 E-10	2.7 E-10	2.4 E-10
Pb-205	1.43 E+07a	0.600	2.1 E-09	0.200	9.9 E-10	6.2 E-10	6.1 E-10	6.5 E-10	2.8 E-10
Pb-209	3.25 h	0.600	5.7 E-10	0.200	3.8 E-10	1.9 E-10	1.1 E-10	6.6 E-11	5.7 E-11
Pb-210	22.3 a	0.600	8.4 E-06	0.200	3.6 E-06	2.2 E-06	1.9 E-06	1.9 E-06	6.9 E-07
Pb-211	0.601 h	0.600	3.1 E-09	0.200	1.4 E-09	7.1 E-10	4.1 E-10	2.7 E-10	1.8 E-10
Pb-212	10.6 h	0.600	1.5 E-07	0.200	6.3 E-08	3.3 E-08	2.0 E-08	1.3 E-08	6.0 E-09
Pb-214	0.447 h	0.600	2.7 E-09	0.200	1.0 E-09	5.2 E-10	3.1 E-10	2.0 E-10	1.4 E-10
Bizmut									
Bi-200	0.606 h	0.100	4.2 E-10	0.050	2.7 E-10	1.5 E-10	9.5 E-11	6.4 E-11	5.1 E-11
Bi-201	1.80 h	0.100	1.0 E-09	0.050	6.7 E-10	3.6 E-10	2.2 E-10	1.4 E-10	1.2 E-10
Bi-202	1.67 h	0.100	6.4 E-10	0.050	4.4 E-10	2.5 E-10	1.6 E-10	1.1 E-10	8.9 E-11
Bi-203	11.8 h	0.100	3.5 E-09	0.050	2.5 E-09	1.4 E-09	9.3 E-10	6.0 E-10	4.8 E-10
Bi-205	15.3 d	0.100	6.1 E-09	0.050	4.5 E-09	2.6 E-09	1.7 E-09	1.1 E-09	9.0 E-10
Bi-206	6.24 d	0.100	1.4 E-08	0.050	1.0 E-08	5.7 E-09	3.7 E-09	2.4 E-09	1.9 E-09
Bi-207	38.0 a	0.100	1.0 E-08	0.050	7.1 E-09	3.9 E-09	2.5 E-09	1.6 E-09	1.3 E-09
Bi-210	5.01 d	0.100	1.5 E-08	0.050	9.7 E-09	4.8 E-09	2.9 E-09	1.6 E-09	1.3 E-09
Bi-210m	3.00 E+06a	0.100	2.1 E-07	0.050	9.1 E-08	4.7 E-08	3.0 E-08	1.9 E-08	1.5 E-08
Bi-212	1.01 h	0.100	3.2 E-09	0.050	1.8 E-09	8.7 E-10	5.0 E-10	3.3 E-10	2.6 E-10
Bi-213	0.761 h	0.100	2.5 E-09	0.050	1.4 E-09	6.7 E-10	3.9 E-10	2.5 E-10	2.0 E-10
Bi-214	0.332 h	0.100	1.4 E-09	0.050	7.4 E-10	3.6 E-10	2.1 E-10	1.4 E-10	1.1 E-10
Polonij									
Po-203	0.612 h	1.000	2.9 E-10	0.500	2.4 E-10	1.3 E-10	8.5 E-11	5.8 E-11	4.6 E-11
Po-205	1.80 h	1.000	3.5 E-10	0.500	2.8 E-10	1.6 E-10	1.1 E-10	7.2 E-11	5.8 E-11
Po-207	5.83 h	1.000	4.4 E-10	0.500	5.7 E-10	3.2 E-10	2.1 E-10	1.4 E-10	1.1 E-10
Po-210	138 d	1.000	2.6 E-05	0.500	8.8 E-06	4.4 E-06	2.6 E-06	1.6 E-06	1.2 E-06
Astacij									
At-207	1.80 h	1.000	2.5 E-09	1.000	1.6 E-09	8.0 E-10	4.8 E-10	2.9 E-10	2.4 E-10
At-211	7.21 h	1.000	1.2 E-07	1.000	7.8 E-08	3.8 E-08	2.3 E-08	1.3 E-08	1.1 E-08
Francij									
Fr-222	0.240 h	1.000	6.2 E-09	1.000	3.9 E-09	2.0 E-09	1.3 E-09	8.5 E-10	7.2 E-10
Fr-223	0.363 h	1.000	2.6 E-08	1.000	1.7 E-08	8.3 E-09	5.0 E-09	2.9 E-09	2.4 E-09
Radij									
Ra-223	11.4 d	0.600	5.3 E-06	0.200	1.1 E-06	5.7 E-07	4.5 E-07	3.7 E-07	1.0 E-07
Ra-224	3.66 d	0.600	2.7 E-06	0.200	6.6 E-07	3.5 E-07	2.6 E-07	2.0 E-07	6.5 E-08
Ra-225	14.8 d	0.600	7.1 E-06	0.200	1.2 E-06	6.1 E-07	5.0 E-07	4.4 E-07	9.9 E-08
Ra-226	1.60 E+03a	0.600	4.7 E-06	0.200	9.6 E-07	6.2 E-07	8.0 E-07	1.5 E-06	2.8 E-07
Ra-227	0.703 h	0.600	1.1 E-09	0.200	4.3 E-10	2.5 E-10	1.7 E-10	1.3 E-10	8.1 E-11
Ra-228	5.75 a	0.600	3.0 E-05	0.200	5.7 E-06	3.4 E-06	3.9 E-06	5.3 E-06	6.9 E-07
Aktinij									
Ac-224	2.90 h	0.005	1.0 E-08	5.0 E-04	5.2 E-09	2.6 E-09	1.5 E-09	8.8 E-10	7.0 E-10
Ac-225	10.0 d	0.005	4.6 E-07	5.0 E-04	1.8 E-07	9.1 E-08	5.4 E-08	3.0 E-08	2.4 E-08

Ac-226	1.21 d	0.005	1.4 E-07	5.0 E-04	7.6 E-08	3.8 E-08	2.3 E-08	1.3 E-08	1.0 E-08
Ac-227	21.8 a	0.005	3.3 E-05	5.0 E-04	3.1 E-06	2.2 E-06	1.5 E-06	1.2 E-06	1.1 E-06
Ac-228	6.13 h	0.005	7.4 E-09	5.0 E-04	2.8 E-09	1.4 E-09	8.7 E-10	5.3 E-10	4.3 E-10
Torij									
Th-226	0.515 h	0.005	4.4 E-09	5.0 E-04	2.4 E-09	1.2 E-09	6.7 E-10	4.5 E-10	3.5 E-10
Th-227	18.7 d	0.005	3.0 E-07	5.0 E-04	7.0 E-08	3.6 E-08	2.3 E-08	1.5 E-08	8.8 E-09
Th-228	1.91 a	0.005	3.7 E-06	5.0 E-04	3.7 E-07	2.2 E-07	1.5 E-07	9.4 E-08	7.2 E-08
Th-229	7.34 E+03a	0.005	1.1 E-05	5.0 E-04	1.0 E-06	7.8 E-07	6.2 E-07	5.3 E-07	4.9 E-07
Th-230	7.70 E+04a	0.005	4.1 E-06	5.0 E-04	4.1 E-07	3.1 E-07	2.4 E-07	2.2 E-07	2.1 E-07
Th-231	1.06 d	0.005	3.9 E-09	5.0 E-04	2.5 E-09	1.2 E-09	7.4 E-10	4.2 E-10	3.4 E-10
Th-232	1.40 E+10a	0.005	4.6 E-06	5.0 E-04	4.5 E-07	3.5 E-07	2.9 E-07	2.5 E-07	2.3 E-07
Th-234	24.1 d	0.005	4.0 E-08	5.0 E-04	2.5 E-08	1.3 E-08	7.4 E-09	4.2 E-09	3.4 E-09
Protaktinij									
Pa-227	0.638 h	0.005	5.8 E-09	5.0 E-04	3.2 E-09	1.5 E-09	8.7 E-10	5.8 E-10	4.5 E-10
Pa-228	22.0 h	0.005	1.2 E-08	5.0 E-04	4.8 E-09	2.6 E-09	1.6 E-09	9.7 E-10	7.8 E-10
Pa-230	17.4 d	0.005	2.6 E-08	5.0 E-04	5.7 E-09	3.1 E-09	1.9 E-09	1.1 E-09	9.2 E-10
Pa-231	3.27 E+04a	0.005	1.3 E-05	5.0 E-04	1.3 E-06	1.1 E-06	9.2 E-07	8.0 E-07	7.1 E-07
Pa-232	1.31 d	0.005	6.3 E-09	5.0 E-04	4.2 E-09	2.2 E-09	1.4 E-09	8.9 E-10	7.2 E-10
Pa-233	27.0 d	0.005	9.7 E-09	5.0 E-04	6.2 E-09	3.2 E-09	1.9 E-09	1.1 E-09	8.7 E-10
Pa-234	6.70 h	0.005	5.0 E-09	5.0 E-04	3.2 E-09	1.7 E-09	1.0 E-09	6.4 E-10	5.1 E-10
Uran									
U-230	20.8 d	0.040	7.9 E-07	0.020	3.0 E-07	1.5 E-07	1.0 E-07	6.6 E-08	5.6 E-08
U-231	4.20 d	0.040	3.1 E-09	0.020	2.0 E-09	1.0 E-09	6.1 E-10	3.5 E-10	2.8 E-10
U-232	72.0 a	0.040	2.5 E-06	0.020	8.2 E-07	5.8 E-07	5.7 E-07	6.4 E-07	3.3 E-07
U-233	1.58 E+05a	0.040	3.8 E-07	0.020	1.4 E-07	9.2 E-08	7.8 E-08	7.8 E-08	5.1 E-08
U-234	2.44 E+05a	0.040	3.7 E-07	0.020	1.3 E-07	8.8 E-08	7.4 E-08	7.4 E-08	4.9 E-08
U-235	7.04 E+08a	0.040	3.5 E-07	0.020	1.3 E-07	8.5 E-08	7.1 E-08	7.0 E-08	4.7 E-08
U-236	2.34 E+07a	0.040	3.5 E-07	0.020	1.3 E-07	8.4 E-08	7.0 E-08	7.0 E-08	4.7 E-08
U-237	6.75 d	0.040	8.3 E-09	0.020	5.4 E-09	2.8 E-09	1.6 E-09	9.5 E-10	7.6 E-10
U-238	4.47 E+09a	0.040	3.4 E-07	0.020	1.2 E-07	8.0 E-08	6.8 E-08	6.7 E-08	4.5 E-08
U-239	0.392 h	0.040	3.4 E-10	0.020	1.9 E-10	9.3 E-11	5.4 E-11	3.5 E-11	2.7 E-11
U-240	14.1 h	0.040	1.3 E-08	0.020	8.1 E-09	4.1 E-09	2.4 E-09	1.4 E-09	1.1 E-09
Neptunij									
Np-232	0.245 h	0.005	8.7 E-11	5.0 E-04	5.1 E-11	2.7 E-11	1.7 E-11	1.2 E-11	9.7 E-12
Np-233	0.603 h	0.005	2.1 E-11	5.0 E-04	1.3 E-11	6.6 E-12	4.0 E-12	2.8 E-12	2.2 E-12
Np-234	4.40 d	0.005	6.2 E-09	5.0 E-04	4.4 E-09	2.4 E-09	1.6 E-09	1.0 E-09	8.1 E-10
Np-235	1.08 a	0.005	7.1 E-10	5.0 E-04	4.1 E-10	2.0 E-10	1.2 E-10	6.8 E-11	5.3 E-11
Np-236	1.15 E+05a	0.005	1.9 E-07	5.0 E-04	2.4 E-08	1.8 E-08	1.8 E-08	1.8 E-08	1.7 E-08
Np-236	22.5 h	0.005	2.5 E-09	5.0 E-04	1.3 E-09	6.6 E-10	4.0 E-10	2.4 E-10	1.9 E-10
Np-237	2.14 E+06a	0.005	2.0 E-06	5.0 E-04	2.1 E-07	1.4 E-07	1.1 E-07	1.1 E-07	1.1 E-07
Np-238	2.12 d	0.005	9.5 E-09	5.0 E-04	6.2 E-09	3.2 E-09	1.9 E-09	1.1 E-09	9.1 E-10
Np-239	2.36 d	0.005	8.9 E-09	5.0 E-04	5.7 E-09	2.9 E-09	1.7 E-09	1.0 E-09	8.0 E-10
Np-240	1.08 h	0.005	8.7 E-10	5.0 E-04	5.2 E-10	2.6 E-10	1.6 E-10	1.0 E-10	8.2 E-11
Plutonij									
Pu-234	8.80 h	0.005	2.1 E-09	5.0 E-04	1.1 E-09	5.5 E-10	3.3 E-10	2.0 E-10	1.6 E-10
Pu-235	0.422 h	0.005	2.2 E-11	5.0 E-04	1.3 E-11	6.5 E-12	3.9 E-12	2.7 E-12	2.1 E-12
Pu-236	2.85 a	0.005	2.1 E-06	5.0 E-04	2.2 E-07	1.4 E-07	1.0 E-07	8.5 E-08	8.7 E-08

Pu-237	45.3 d	0.005	1.1 E-09	5.0 E-04	6.9 E-10	3.6 E-10	2.2 E-10	1.3 E-10	1.0 E-10
Pu-238	87.7 a	0.005	4.0 E-06	5.0 E-04	4.0 E-07	3.1 E-07	2.4 E-07	2.2 E-07	2.3 E-07
Pu-239	2.41 E+04a	0.005	4.2 E-06	5.0 E-04	4.2 E-07	3.3 E-07	2.7 E-07	2.4 E-07	2.5 E-07
Pu-240	6.54 E+03a	0.005	4.2 E-06	5.0 E-04	4.2 E-07	3.3 E-07	2.7 E-07	2.4 E-07	2.5 E-07
Pu-241	14.4 a	0.005	5.6 E-08	5.0 E-04	5.7 E-09	5.5 E-09	5.1 E-09	4.8 E-09	4.8 E-09
Pu-242	3.76 E+05a	0.005	4.0 E-06	5.0 E-04	4.0 E-07	3.2 E-07	2.6 E-07	2.3 E-07	2.4 E-07
Pu-243	4.95 h	0.005	1.0 E-09	5.0 E-04	6.2 E-10	3.1 E-10	1.8 E-10	1.1 E-10	8.5 E-11
Pu-244	8.26 E+07a	0.005	4.0 E-06	5.0 E-04	4.1 E-07	3.2 E-07	2.6 E-07	2.3 E-07	2.4 E-07
Pu-245	10.5 h	0.005	8.0 E-09	5.0 E-04	5.1 E-09	2.6 E-09	1.5 E-09	8.9 E-10	7.2 E-10
Pu-246	10.9 d	0.005	3.6 E-08	5.0 E-04	2.3 E-08	1.2 E-08	7.1 E-09	4.1 E-09	3.3 E-09
Americij									
Am-237	1.22 h	0.005	1.7 E-10	5.0 E-04	1.0 E-10	5.5 E-11	3.3 E-11	2.2 E-11	1.8 E-11
Am-238	1.63 h	0.005	2.5 E-10	5.0 E-04	1.6 E-10	9.1 E-11	5.9 E-11	4.0 E-11	3.2 E-11
Am-239	11.9 h	0.005	2.6 E-09	5.0 E-04	1.7 E-09	8.4 E-10	5.1 E-10	3.0 E-10	2.4 E-10
Am-240	2.12 d	0.005	4.7 E-09	5.0 E-04	3.3 E-09	1.8 E-09	1.2 E-09	7.3 E-10	5.8 E-10
Am-241	4.32 E+02a	0.005	3.7 E-06	5.0 E-04	3.7 E-07	2.7 E-07	2.2 E-07	2.0 E-07	2.0 E-07
Am-242	16.0 h	0.005	5.0 E-09	5.0 E-04	2.2 E-09	1.1 E-09	6.4 E-10	3.7 E-10	3.0 E-10
Am-242m	1.52 E+02a	0.005	3.1 E-06	5.0 E-04	3.0 E-07	2.3 E-07	2.0 E-07	1.9 E-07	1.9 E-07
Am-243	7.38 E+03a	0.005	3.6 E-06	5.0 E-04	3.7 E-07	2.7 E-07	2.2 E-07	2.0 E-07	2.0 E-07
Am-244	10.1 h	0.005	4.9 E-09	5.0 E-04	3.1 E-09	1.6 E-09	9.6 E-10	5.8 E-10	4.6 E-10
Am-244m	0.433 h	0.005	3.7 E-10	5.0 E-04	2.0 E-10	9.6 E-11	5.5 E-11	3.7 E-11	2.9 E-11
Am-245	2.05 h	0.005	6.8 E-10	5.0 E-04	4.5 E-10	2.2 E-10	1.3 E-10	7.9 E-11	6.2 E-11
Am-246	0.650 h	0.005	6.7 E-10	5.0 E-04	3.8 E-10	1.9 E-10	1.1 E-10	7.3 E-11	5.8 E-11
Am-246m	0.417 h	0.005	3.9 E-10	5.0 E-04	2.2 E-10	1.1 E-10	6.4 E-11	4.4 E-11	3.4 E-11
Kirij									
Cm-238	2.40 h	0.005	7.8 E-10	5.0 E-04	4.9 E-10	2.6 E-10	1.6 E-10	1.0 E-10	8.0 E-11
Cm-240	27.0 d	0.005	2.2 E-07	5.0 E-04	4.8 E-08	2.5 E-08	1.5 E-08	9.2 E-09	7.6 E-09
Cm-241	32.8 d	0.005	1.1 E-08	5.0 E-04	5.7 E-09	3.0 E-09	1.9 E-09	1.1 E-09	9.1 E-10
Cm-242	163 d	0.005	5.9 E-07	5.0 E-04	7.6 E-08	3.9 E-08	2.4 E-08	1.5 E-08	1.2 E-08
Cm-243	28.5 a	0.005	3.2 E-06	5.0 E-04	3.3 E-07	2.2 E-07	1.6 E-07	1.4 E-07	1.5 E-07
Cm-244	18.1 a	0.005	2.9 E-06	5.0 E-04	2.9 E-07	1.9 E-07	1.4 E-07	1.2 E-07	1.2 E-07
Cm-245	8.50 E+03a	0.005	3.7 E-06	5.0 E-04	3.7 E-07	2.8 E-07	2.3 E-07	2.1 E-07	2.1 E-07
Cm-246	4.73 E+03a	0.005	3.7 E-06	5.0 E-04	3.7 E-07	2.8 E-07	2.2 E-07	2.1 E-07	2.1 E-07
Cm-247	1.56 E+07a	0.005	3.4 E-06	5.0 E-04	3.5 E-07	2.6 E-07	2.1 E-07	1.9 E-07	1.9 E-07
Cm-248	3.39 E+05a	0.005	1.4 E-05	5.0 E-04	1.4 E-06	1.0 E-06	8.4 E-07	7.7 E-07	7.7 E-07
Cm-249	1.07 h	0.005	3.9 E-10	5.0 E-04	2.2 E-10	1.1 E-10	6.1 E-11	4.0 E-11	3.1 E-11
Cm-250	6.90 E+03a	0.005	7.8 E-05	5.0 E-04	8.2 E-06	6.0 E-06	4.9 E-06	4.4 E-06	4.4 E-06
Berkelij									
Bk-245	4.94 d	0.005	6.1 E-09	5.0 E-04	3.9 E-09	2.0 E-09	1.2 E-09	7.2 E-10	5.7 E-10
Bk-246	1.83 d	0.005	3.7 E-09	5.0 E-04	2.6 E-09	1.4 E-09	9.4 E-10	6.0 E-10	4.8 E-10
Bk-247	1.38 E+03a	0.005	8.9 E-06	5.0 E-04	8.6 E-07	6.3 E-07	4.6 E-07	3.8 E-07	3.5 E-07
Bk-249	320 d	0.005	2.2 E-08	5.0 E-04	2.9 E-09	1.9 E-09	1.4 E-09	1.1 E-09	9.7 E-10
Bk-250	3.22 h	0.005	1.5 E-09	5.0 E-04	8.5 E-10	4.4 E-10	2.7 E-10	1.7 E-10	1.4 E-10
Kalifornij									
Cf-244	0.323 h	0.005	9.8 E-10	5.0 E-04	4.8 E-10	2.4 E-10	1.3 E-10	8.9 E-11	7.0 E-11
Cf-246	1.49 d	0.005	5.0 E-08	5.0 E-04	2.4 E-08	1.2 E-08	7.3 E-09	4.1 E-09	3.3 E-09
Cf-248	334 d	0.005	1.5 E-06	5.0 E-04	1.6 E-07	9.9 E-08	6.0 E-08	3.3 E-08	2.8 E-08
Cf-249	3.50 E+02a	0.005	9.0 E-06	5.0 E-04	8.7 E-07	6.4 E-07	4.7 E-07	3.8 E-07	3.5 E-07

Cf-250	13.1 a	0.005	5.7 E-06	5.0 E-04	5.5 E-07	3.7 E-07	2.3 E-07	1.7 E-07	1.6 E-07
Cf-251	8.98 E+02a	0.005	9.1 E-06	5.0 E-04	8.8 E-07	6.5 E-07	4.7 E-07	3.9 E-07	3.6 E-07
Cf-252	2.64 a	0.005	5.0 E-06	5.0 E-04	5.1 E-07	3.2 E-07	1.9 E-07	1.0 E-07	9.0 E-08
Cf-253	17.8 d	0.005	1.0 E-07	5.0 E-04	1.1 E-08	6.0 E-09	3.7 E-09	1.8 E-09	1.4 E-09
Cf-254	60.5 d	0.005	1.1 E-05	5.0 E-04	2.6 E-06	1.4 E-06	8.4 E-07	5.0 E-07	4.0 E-07
Ajnštajnij									
Es-250	2.10 h	0.005	2.3 E-10	5.0 E-04	9.9 E-11	5.7 E-11	3.7 E-11	2.6 E-11	2.1 E-11
Es-251	1.38 d	0.005	1.9 E-09	5.0 E-04	1.2 E-09	6.1 E-10	3.7 E-10	2.2 E-10	1.7 E-10
Es-253	20.5 d	0.005	1.7 E-07	5.0 E-04	4.5 E-08	2.3 E-08	1.4 E-08	7.6 E-09	6.1 E-09
Es-254	276 d	0.005	1.4 E-06	5.0 E-04	1.6 E-07	9.8 E-08	6.0 E-08	3.3 E-08	2.8 E-08
Es-254m	1.64 d	0.005	5.7 E-08	5.0 E-04	3.0 E-08	1.5 E-08	9.1 E-09	5.2 E-09	4.2 E-09
Fermij									
Fm-252	22.7 h	0.005	3.8 E-08	5.0 E-04	2.0 E-08	9.9 E-09	5.9 E-09	3.3 E-09	2.7 E-09
Fm-253	3.00 d	0.005	2.5 E-08	5.0 E-04	6.7 E-09	3.4 E-09	2.1 E-09	1.1 E-09	9.1 E-10
Fm-254	3.24 h	0.005	5.6 E-09	5.0 E-04	3.2 E-09	1.6 E-09	9.3 E-10	5.6 E-10	4.4 E-10
Fm-255	20.1 h	0.005	3.3 E-08	5.0 E-04	1.9 E-08	9.5 E-09	5.6 E-09	3.2 E-09	2.5 E-09
Fm-257	101 d	0.005	9.8 E-07	5.0 E-04	1.1 E-07	6.5 E-08	4.0 E-08	1.9 E-08	1.5 E-08
Mendelevij									
Md-257	5.20 h	0.005	3.1 E-09	5.0 E-04	8.8 E-10	4.5 E-10	2.7 E-10	1.5 E-10	1.2 E-10
Md-258	55.0 d	0.005	6.3 E-07	5.0 E-04	8.9 E-08	5.0 E-08	3.0 E-08	1.6 E-08	1.3 E-08

Tablica 5. OČEKIVANE EFEKTIVNE DOZE PO JEDINICI UNESENE AKTIVNOSTI e(g) UDISANJEM (Sv Bq⁻¹)

Radio-nuklid	Fizikalno vrijeme poluraspada	Vrsta	Dob g < 1 a		fI za g ≥ 1 a	Dob	Dob	Dob	Dob	Dob
			fI	e(g)		1-2 a	2-7 a	7-12 a	12-17a	>17 a
						e(g)	e(g)	e(g)	e(g)	e(g)
Vodik Tricirana voda	12.3 a	F	1.000	2.6 E-11	1.000	2.0 E-11	1.1 E-11	8.2 E-12	5.9 E-12	6.2 E-12
		M	0.200	3.4 E-10	0.100	2.7 E-10	1.4 E-10	8.2 E-11	5.3 E-11	4.5 E-11
		S	0.020	1.2 E-09	0.010	1.0 E-09	6.3 E-10	3.8 E-10	2.8 E-10	2.6 E-10
Berilij Be-7	53.3 d	M	0.020	2.5 E-10	0.005	2.1 E-10	1.2 E-10	8.3 E-11	6.2 E-11	5.0 E-11
		S	0.020	2.8 E-10	0.005	2.4 E-10	1.4 E-10	9.6 E-11	6.8 E-11	5.5 E-11
		Be-10	M	0.020	4.1 E-08	0.005	3.4 E-08	2.0 E-08	1.3 E-08	1.1 E-08
S	0.020		9.9 E-08	0.005	9.1 E-08	6.1 E-08	4.2 E-08	3.7 E-08	3.5 E-08	
Ugljik C-11	0.340 h	F	1.000	1.0 E-10	1.000	7.0 E-11	3.2 E-11	2.1 E-11	1.3 E-11	1.1 E-11
		M	0.200	1.5 E-10	0.100	1.1 E-10	4.9 E-11	3.2 E-11	2.1 E-11	1.8 E-11
		S	0.020	1.6 E-10	0.010	1.1 E-10	5.1 E-11	3.3 E-11	2.2 E-11	1.8 E-11
C-14	5.73 E+03a	F	1.000	6.1 E-10	1.000	6.7 E-10	3.6 E-10	2.9 E-10	1.9 E-10	2.0 E-10
		M	0.200	8.3 E-09	0.100	6.6 E-09	4.0 E-09	2.8 E-09	2.5 E-09	2.0 E-09
		S	0.020	1.9 E-08	0.010	1.7 E-08	1.1 E-08	7.4 E-09	6.4 E-09	5.8 E-09
Fluor F-18	1.83 h	F	1.000	2.6 E-10	1.000	1.9 E-10	9.1 E-11	5.6 E-11	3.4 E-11	2.8 E-11
		M	1.000	4.1 E-10	1.000	2.9 E-10	1.5 E-10	9.7 E-11	6.9 E-11	5.6 E-11

		S	1.000	4.2 E-10	1.000	3.1 E-10	1.5 E-10	1.0 E-10	7.3 E-11	5.9 E-11
Natrij										
Na-22	2.60 a	F	1.000	9.7 E-09	1.000	7.3 E-09	3.8 E-09	2.4 E-09	1.5 E-09	1.3 E-09
Na-24	15.0 h	F	1.000	2.3 E-09	1.000	1.8 E-09	9.3 E-10	5.7 E-10	3.4 E-10	2.7 E-10
Magnezij										
Mg-28	20.9 h	F	1.000	5.3 E-09	0.500	4.7 E-09	2.2 E-09	1.3 E-09	7.3 E-10	6.0 E-10
		M	1.000	7.3 E-09	0.500	7.2 E-09	3.5 E-09	2.3 E-09	1.5 E-09	1.2 E-09
Aluminij										
Al-26	7.16 E+05a	F	0.020	8.1 E-08	0.010	6.2 E-08	3.2 E-08	2.0 E-08	1.3 E-08	1.1 E-08
		M	0.020	8.8 E-08	0.010	7.4 E-08	4.4 E-08	2.9 E-08	2.2 E-08	2.0 E-08
Silicij										
Si-31	2.62 h	F	0.020	3.6 E-10	0.010	2.3 E-10	9.5 E-11	5.9 E-11	3.2 E-11	2.7 E-11
		M	0.020	6.9 E-10	0.010	4.4 E-10	2.0 E-10	1.3 E-10	8.9 E-11	7.4 E-11
		S	0.020	7.2 E-10	0.010	4.7 E-10	2.2 E-10	1.4 E-10	9.5 E-11	7.9 E-11
Si-32	4.50 E+02a	F	0.020	3.0 E-08	0.010	2.3 E-08	1.1 E-08	6.4 E-09	3.8 E-09	3.2 E-09
		M	0.020	7.1 E-08	0.010	6.0 E-08	3.6 E-08	2.4 E-08	1.9 E-08	1.7 E-08
		S	0.020	2.8 E-07	0.010	2.7 E-07	1.9 E-07	1.3 E-07	1.1 E-07	1.1 E-07
Fosfor										
P-32	14.3 d	F	1.000	1.2 E-08	0.800	7.5 E-09	3.2 E-09	1.8 E-09	9.8 E-10	7.7 E-10
		M	1.000	2.2 E-08	0.800	1.5 E-08	8.0 E-09	5.3 E-09	4.0 E-09	3.4 E-09
P-33	25.4 d	F	1.000	1.2 E-09	0.800	7.8 E-10	3.0 E-10	2.0 E-10	1.1 E-10	9.2 E-11
		M	1.000	6.1 E-09	0.800	4.6 E-09	2.8 E-09	2.1 E-09	1.9 E-09	1.5 E-09
Sumpor										
S-35 (anorganski)	87.4 d	F	1.000	5.5 E-10	0.800	3.9 E-10	1.8 E-10	1.1 E-10	6.0 E-11	5.1 E-11
		M	0.200	5.9 E-09	0.100	4.5 E-09	2.8 E-09	2.0 E-09	1.8 E-09	1.4 E-09
		S	0.020	7.7 E-09	0.010	6.0 E-09	3.6 E-09	2.6 E-09	2.3 E-09	1.9 E-09
Klor										
Cl-36	3.01 E+05a	F	1.000	3.9 E-09	1.000	2.6 E-09	1.1 E-09	7.1 E-10	3.9 E-10	3.3 E-10
		M	1.000	3.1 E-08	1.000	2.6 E-08	1.5 E-08	1.0 E-08	8.8 E-09	7.3 E-09
Cl-38	0.620 h	F	1.000	2.9 E-10	1.000	1.9 E-10	8.4 E-11	5.1 E-11	3.0 E-11	2.5 E-11
		M	1.000	4.7 E-10	1.000	3.0 E-10	1.4 E-10	8.5 E-11	5.4 E-11	4.5 E-11
Cl-39	0.927 h	F	1.000	2.7 E-10	1.000	1.8 E-10	8.4 E-11	5.1 E-11	3.1 E-11	2.5 E-11
		M	1.000	4.3 E-10	1.000	2.8 E-10	1.3 E-10	8.5 E-11	5.6 E-11	4.6 E-11
Kalij										
K-40	1.28 E+09a	F	1.000	2.4 E-08	1.000	1.7 E-08	7.5 E-09	4.5 E-09	2.5 E-09	2.1 E-09
K-42	12.4 h	F	1.000	1.6 E-09	1.000	1.0 E-09	4.4 E-10	2.6 E-10	1.5 E-10	1.2 E-10
K-43	22.6 h	F	1.000	1.3 E-09	1.000	9.7 E-10	4.7 E-10	2.9 E-10	1.7 E-10	1.4 E-10
K-44	0.369 h	F	1.000	2.2 E-10	1.000	1.4 E-10	6.5 E-11	4.0 E-11	2.4 E-11	2.0 E-11
K-45	0.333 h	F	1.000	1.5 E-10	1.000	1.0 E-10	4.8 E-11	3.0 E-11	1.8 E-11	1.5 E-11
Kalcij										
Ca-41	1.40 E+05a	F	0.600	6.7 E-10	0.300	3.8 E-10	2.6 E-10	3.3 E-10	3.3 E-10	1.7 E-10
		M	0.200	4.2 E-10	0.100	2.6 E-10	1.7 E-10	1.7 E-10	1.6 E-10	9.5 E-11
		S	0.020	6.7 E-10	0.010	6.0 E-10	3.8 E-10	2.4 E-10	1.9 E-10	1.8 E-10

Ca-45	163 d	F	0.600	5.7 E-09	0.300	3.0 E-09	1.4 E-09	1.0 E-09	7.6 E-10	4.6 E-10
		M	0.200	1.2 E-08	0.100	8.8 E-09	5.3 E-09	3.9 E-09	3.5 E-09	2.7 E-09
		S	0.020	1.5 E-08	0.010	1.2 E-08	7.2 E-09	5.1 E-09	4.6 E-09	3.7 E-09
Ca-47	4.53 d	F	0.600	4.9 E-09	0.300	3.6 E-09	1.7 E-09	1.1 E-09	6.1 E-10	5.5 E-10
		M	0.200	1.0 E-08	0.100	7.7 E-09	4.2 E-09	2.9 E-09	2.4 E-09	1.9 E-09
		S	0.020	1.2 E-08	0.010	8.5 E-09	4.6 E-09	3.3 E-09	2.6 E-09	2.1 E-09
Skandij										
Sc-43	3.89 h	S	0.001	9.3 E-10	1.0 E-04	6.7 E-10	3.3 E-10	2.2 E-10	1.4 E-10	1.1 E-10
Sc-44	3.93 h	S	0.001	1.6 E-09	1.0 E-04	1.2 E-09	5.6 E-10	3.6 E-10	2.3 E-10	1.8 E-10
Sc-44m	2.44 d	S	0.001	1.1 E-08	1.0 E-04	8.4 E-09	4.2 E-09	2.8 E-09	1.7 E-09	1.4 E-09
Sc-46	83.8 d	S	0.001	2.8 E-08	1.0 E-04	2.3 E-08	1.4 E-08	9.8 E-09	8.4 E-09	6.8 E-09
Sc-47	3.35 d	S	0.001	4.0 E-09	1.0 E-04	2.8 E-09	1.5 E-09	1.1 E-09	9.2 E-10	7.3 E-10
Sc-48	1.82 d	S	0.001	7.8 E-09	1.0 E-04	5.9 E-09	3.1 E-09	2.0 E-09	1.4 E-09	1.1 E-09
Sc-49	0.956 h	S	0.001	3.9 E-10	1.0 E-04	2.4 E-10	1.1 E-10	7.1 E-11	4.7 E-11	4.0 E-11
Titan										
Ti-44	47.3 a	F	0.020	3.1 E-07	0.010	2.6 E-07	1.5 E-07	9.6 E-08	6.6 E-08	6.1 E-08
		M	0.020	1.7 E-07	0.010	1.5 E-07	9.2 E-08	5.9 E-08	4.6 E-08	4.2 E-08
		S	0.020	3.2 E-07	0.010	3.1 E-07	2.1 E-07	1.5 E-07	1.3 E-07	1.2 E-07
Ti-45	3.08 h	F	0.020	4.4 E-10	0.010	3.2 E-10	1.5 E-10	9.1 E-11	5.1 E-11	4.2 E-11
		M	0.020	7.4 E-10	0.010	5.2 E-10	2.5 E-10	1.6 E-10	1.1 E-10	8.8 E-11
		S	0.020	7.7 E-10	0.010	5.5 E-10	2.7 E-10	1.7 E-10	1.1 E-10	9.3 E-11
Vanadij										
V-47	0.543 h	F	0.020	1.8 E-10	0.010	1.2 E-10	5.6 E-11	3.5 E-11	2.1 E-11	1.7 E-11
		M	0.020	2.8 E-10	0.010	1.9 E-10	8.6 E-11	5.5 E-11	3.5 E-11	2.9 E-11
V-48	16.2 d	F	0.020	8.4 E-09	0.010	6.4 E-09	3.3 E-09	2.1 E-09	1.3 E-09	1.1 E-09
		M	0.020	1.4 E-08	0.010	1.1 E-08	6.3 E-09	4.3 E-09	2.9 E-09	2.4 E-09
V-49	330 d	F	0.020	2.0 E-10	0.010	1.6 E-10	7.7 E-11	4.3 E-11	2.5 E-11	2.1 E-11
		M	0.020	2.8 E-10	0.010	2.1 E-10	1.1 E-10	6.3 E-11	4.0 E-11	3.4 E-11
Krom										
Cr-48	23.0 h	F	0.200	7.6 E-10	0.100	6.0 E-10	3.1 E-10	2.0 E-10	1.2 E-10	9.9 E-11
		M	0.200	1.1 E-09	0.100	9.1 E-10	5.1 E-10	3.4 E-10	2.5 E-10	2.0 E-10
		S	0.200	1.2 E-09	0.100	9.8 E-10	5.5 E-10	3.7 E-10	2.8 E-10	2.2 E-10
Cr-49	0.702 h	F	0.200	1.9 E-10	0.100	1.3 E-10	6.0 E-11	3.7 E-11	2.2 E-11	1.9 E-11
		M	0.200	3.0 E-10	0.100	2.0 E-10	9.5 E-11	6.1 E-11	4.0 E-11	3.3 E-11
		S	0.200	3.1 E-10	0.100	2.1 E-10	9.9 E-11	6.4 E-11	4.2 E-11	3.5 E-11
Cr-51	27.7 d	F	0.200	1.7 E-10	0.100	1.3 E-10	6.3 E-11	4.0 E-11	2.4 E-11	2.0 E-11
		M	0.200	2.6 E-10	0.100	1.9 E-10	1.0 E-10	6.4 E-11	3.9 E-11	3.2 E-11
		S	0.200	2.6 E-10	0.100	2.1 E-10	1.0 E-10	6.6 E-11	4.5 E-11	3.7 E-11
Mangan										
Mn-51	0.770 h	F	0.200	2.5 E-10	0.100	1.7 E-10	7.5 E-11	4.6 E-11	2.7 E-11	2.3 E-11
		M	0.200	4.0 E-10	0.100	2.7 E-10	1.2 E-10	7.8 E-11	5.0 E-11	4.1 E-11
Mn-52	5.59 d	F	0.200	7.0 E-09	0.100	5.5 E-09	2.9 E-09	1.8 E-09	1.1 E-09	9.4 E-10
		M	0.200	8.6 E-09	0.100	6.8 E-09	3.7 E-09	2.4 E-09	1.7 E-09	1.4 E-09
Mn-52m	0.352 h	F	0.200	1.9 E-10	0.100	1.3 E-10	6.1 E-11	3.8 E-11	2.2 E-11	1.9 E-11
		M	0.200	2.8 E-10	0.100	1.9 E-10	8.7 E-11	5.5 E-11	3.4 E-11	2.9 E-11
Mn-53	3.70 E+06a	F	0.200	3.2 E-10	0.100	2.2 E-10	1.1 E-10	6.0 E-11	3.4 E-11	2.9 E-11
		M	0.200	4.6 E-10	0.100	3.4 E-10	1.7 E-10	1.0 E-10	6.4 E-11	5.4 E-11

Mn-54	312 d	F	0.200	5.2 E-09	0.100	4.1 E-09	2.2 E-09	1.5 E-09	9.9 E-10	8.5 E-10
		M	0.200	7.5 E-09	0.100	6.2 E-09	3.8 E-09	2.4 E-09	1.9 E-09	1.5 E-09
Mn-56	2.58 h	F	0.200	6.9 E-10	0.100	4.9 E-10	2.3 E-10	1.4 E-10	7.8 E-11	6.4 E-11
		M	0.200	1.1 E-09	0.100	7.8 E-10	3.7 E-10	2.4 E-10	1.5 E-10	1.2 E-10
Željezo										
Fe-52	8.28 h	F	0.600	5.2 E-09	0.100	3.6 E-09	1.5 E-09	8.9 E-10	4.9 E-10	3.9 E-10
		M	0.200	5.8 E-09	0.100	4.1 E-09	1.9 E-09	1.2 E-09	7.4 E-10	6.0 E-10
		S	0.020	6.0 E-09	0.010	4.2 E-09	2.0 E-09	1.3 E-09	7.7 E-10	6.3 E-10
Fe-55	2.70 a	F	0.600	4.2 E-09	0.100	3.2 E-09	2.2 E-09	1.4 E-09	9.4 E-10	7.7 E-10
		M	0.200	1.9 E-09	0.100	1.4 E-09	9.9 E-10	6.2 E-10	4.4 E-10	3.8 E-10
		S	0.020	1.0 E-09	0.010	8.5 E-10	5.0 E-10	2.9 E-10	2.0 E-10	1.8 E-10
Fe-59	44.5 d	F	0.600	2.1 E-08	0.100	1.3 E-08	7.1 E-09	4.2 E-09	2.6 E-09	2.2 E-09
		M	0.200	1.8 E-08	0.100	1.3 E-08	7.9 E-09	5.5 E-09	4.6 E-09	3.7 E-09
		S	0.020	1.7 E-08	0.010	1.3 E-08	8.1 E-09	5.8 E-09	5.1 E-09	4.0 E-09
Fe-60	1.00 E+05a	F	0.600	4.4 E-07	0.100	3.9 E-07	3.5 E-07	3.2 E-07	2.9 E-07	2.8 E-07
		M	0.200	2.0 E-07	0.100	1.7 E-07	1.6 E-07	1.4 E-07	1.4 E-07	1.4 E-07
		S	0.020	9.3 E-08	0.010	8.8 E-08	6.7 E-08	5.2 E-08	4.9 E-08	4.9 E-08
Kobalt										
Co-55	17.5 h	F	0.600	2.2 E-09	0.100	1.8 E-09	9.0 E-10	5.5 E-10	3.1 E-10	2.7 E-10
		M	0.200	4.1 E-09	0.100	3.1 E-09	1.5 E-09	9.8 E-10	6.1 E-10	5.0 E-10
		S	0.020	4.6 E-09	0.010	3.3 E-09	1.6 E-09	1.1 E-09	6.6 E-10	5.3 E-10
Co-56	78.7 d	F	0.600	1.4 E-08	0.100	1.0 E-08	5.5 E-09	3.5 E-09	2.2 E-09	1.8 E-09
		M	0.200	2.5 E-08	0.100	2.1 E-08	1.1 E-08	7.4 E-09	5.8 E-09	4.8 E-09
		S	0.020	2.9 E-08	0.010	2.5 E-08	1.5 E-08	1.0 E-08	8.0 E-09	6.7 E-09
Co-57	271 d	F	0.600	1.5 E-09	0.100	1.1 E-09	5.6 E-10	3.7 E-10	2.3 E-10	1.9 E-10
		M	0.200	2.8 E-09	0.100	2.2 E-09	1.3 E-09	8.5 E-10	6.7 E-10	5.5 E-10
		S	0.020	4.4 E-09	0.010	3.7 E-09	2.3 E-09	1.5 E-09	1.2 E-09	1.0 E-09
Co-58	70.8 d	F	0.600	4.0 E-09	0.100	3.0 E-09	1.6 E-09	1.0 E-09	6.4 E-10	5.3 E-10
		M	0.200	7.3 E-09	0.100	6.5 E-09	3.5 E-09	2.4 E-09	2.0 E-09	1.6 E-09
		S	0.020	9.0 E-09	0.010	7.5 E-09	4.5 E-09	3.1 E-09	2.6 E-09	2.1 E-09
Co-58m	9.15 h	F	0.600	4.8 E-11	0.100	3.6 E-11	1.7 E-11	1.1 E-11	5.9 E-12	5.2 E-12
		M	0.200	1.1 E-10	0.100	7.6 E-11	3.8 E-11	2.4 E-11	1.6 E-11	1.3 E-11
		S	0.020	1.3 E-10	0.010	9.0 E-11	4.5 E-11	3.0 E-11	2.0 E-11	1.7 E-11
Co-60	5.27 a	F	0.600	3.0 E-08	0.100	2.3 E-08	1.4 E-08	8.9 E-09	6.1 E-09	5.2 E-09
		M	0.200	4.2 E-08	0.100	3.4 E-08	2.1 E-08	1.5 E-08	1.2 E-08	1.0 E-08
		S	0.020	9.2 E-08	0.010	8.6 E-08	5.9 E-08	4.0 E-08	3.4 E-08	3.1 E-08
Co-60m	0.174 h	F	0.600	4.4 E-12	0.100	2.8 E-12	1.5 E-12	1.0 E-12	8.3 E-13	6.9 E-13
		M	0.200	7.1 E-12	0.100	4.7 E-12	2.7 E-12	1.8 E-12	1.5 E-12	1.2 E-12
		S	0.020	7.6 E-12	0.010	5.1 E-12	2.9 E-12	2.0 E-12	1.7 E-12	1.4 E-12
Co-61	1.65 h	F	0.600	2.1 E-10	0.100	1.4 E-10	6.0 E-11	3.8 E-11	2.2 E-11	1.9 E-11
		M	0.200	4.0 E-10	0.100	2.7 E-10	1.2 E-10	8.2 E-11	5.7 E-11	4.7 E-11
		S	0.020	4.3 E-10	0.010	2.8 E-10	1.3 E-10	8.8 E-11	6.1 E-11	5.1 E-11
Co-62m	0.232 h	F	0.600	1.4 E-10	0.100	9.5 E-11	4.5 E-11	2.8 E-11	1.7 E-11	1.4 E-11
		M	0.200	1.9 E-10	0.100	1.3 E-10	6.1 E-11	3.8 E-11	2.4 E-11	2.0 E-11
		S	0.020	2.0 E-10	0.010	1.3 E-10	6.3 E-11	4.0 E-11	2.5 E-11	2.1 E-11
Nikal										
Ni-56	6.10 d	F	0.100	3.3 E-09	0.050	2.8 E-09	1.5 E-09	9.3 E-10	5.8 E-10	4.9 E-10
		M	0.100	4.9 E-09	0.050	4.1 E-09	2.3 E-09	1.5 E-09	1.1 E-09	8.7 E-10
		S	0.020	5.5 E-09	0.010	4.6 E-09	2.7 E-09	1.8 E-09	1.3 E-09	1.0 E-09

Ni-57	1.50 d	F	0.100	2.2 E-09	0.050	1.8 E-09	8.9 E-10	5.5 E-10	3.1 E-10	2.5 E-10
		M	0.100	3.6 E-09	0.050	2.8 E-09	1.5 E-09	9.5 E-10	6.2 E-10	5.0 E-10
		S	0.020	3.9 E-09	0.010	3.0 E-09	1.5 E-09	1.0 E-09	6.6 E-10	5.3 E-10
Ni-59	7.50 E+04a	F	0.100	9.6 E-10	0.050	8.1 E-10	4.5 E-10	2.8 E-10	1.9 E-10	1.8 E-10
		M	0.100	7.9 E-10	0.050	6.2 E-10	3.4 E-10	2.1 E-10	1.4 E-10	1.3 E-10
		S	0.020	1.7 E-09	0.010	1.5 E-09	9.5 E-10	5.9 E-10	4.6 E-10	4.4 E-10
Ni-63	96.0 a	F	0.100	2.3 E-09	0.050	2.0 E-09	1.1 E-09	6.7 E-10	4.6 E-10	4.4 E-10
		M	0.100	2.5 E-09	0.050	1.9 E-09	1.1 E-09	7.0 E-10	5.3 E-10	4.8 E-10
		S	0.020	4.8 E-09	0.010	4.3 E-09	2.7 E-09	1.7 E-09	1.3 E-09	1.3 E-09
Ni-65	2.52 h	F	0.100	4.4 E-10	0.050	3.0 E-10	1.4 E-10	8.5 E-11	4.9 E-11	4.1 E-11
		M	0.100	7.7 E-10	0.050	5.2 E-10	2.4 E-10	1.6 E-10	1.0 E-10	8.5 E-11
		S	0.020	8.1 E-10	0.010	5.5 E-10	2.6 E-10	1.7 E-10	1.1 E-10	9.0 E-11
Ni-66	2.27 d	F	0.100	5.7 E-09	0.050	3.8 E-09	1.6 E-09	1.0 E-09	5.1 E-10	4.2 E-10
		M	0.100	1.3 E-08	0.050	9.4 E-09	4.5 E-09	2.9 E-09	2.0 E-09	1.6 E-09
		S	0.020	1.5 E-08	0.010	1.0 E-08	5.0 E-09	3.2 E-09	2.2 E-09	1.8 E-09
Bakar										
Cu-60	0.387 h	F	1.000	2.1 E-10	0.500	1.6 E-10	7.5 E-11	4.6 E-11	2.8 E-11	2.3 E-11
		M	1.000	3.0 E-10	0.500	2.2 E-10	1.0 E-10	6.5 E-11	4.0 E-11	3.3 E-11
		S	1.000	3.1 E-10	0.500	2.2 E-10	1.1 E-10	6.7 E-11	4.2 E-11	3.4 E-11
Cu-61	3.41 h	F	1.000	3.1 E-10	0.500	2.7 E-10	1.3 E-10	7.9 E-11	4.5 E-11	3.7 E-11
		M	1.000	4.9 E-10	0.500	4.4 E-10	2.1 E-10	1.4 E-10	9.1 E-11	7.4 E-11
		S	1.000	5.1 E-10	0.500	4.5 E-10	2.2 E-10	1.4 E-10	9.6 E-11	7.8 E-11
Cu-64	12.7 h	F	1.000	2.8 E-10	0.500	2.7 E-10	1.2 E-10	7.6 E-11	4.2 E-11	3.5 E-11
		M	1.000	5.5 E-10	0.500	5.4 E-10	2.7 E-10	1.9 E-10	1.4 E-10	1.1 E-10
		S	1.000	5.8 E-10	0.500	5.7 E-10	2.9 E-10	2.0 E-10	1.3 E-10	1.2 E-10
Cu-67	2.58 d	F	1.000	9.5 E-10	0.500	8.0 E-10	3.5 E-10	2.2 E-10	1.2 E-10	1.0 E-10
		M	1.000	2.3 E-09	0.500	2.0 E-09	1.1 E-09	8.1 E-10	6.9 E-10	5.5 E-10
		S	1.000	2.5 E-09	0.500	2.1 E-09	1.2 E-09	8.9 E-10	7.7 E-10	6.1 E-10
Cink										
Zn-62	9.26 h	F	1.000	1.7 E-09	0.500	1.7 E-09	7.7 E-10	4.6 E-10	2.5 E-10	2.0 E-10
		M	0.200	4.5 E-09	0.100	3.5 E-09	1.6 E-09	1.0 E-09	6.0 E-10	5.0 E-10
		S	0.020	5.1 E-09	0.010	3.4 E-09	1.8 E-09	1.1 E-09	6.6 E-10	5.5 E-10
Zn-63	0.635 h	F	1.000	2.1 E-10	0.500	1.4 E-10	6.5 E-11	4.0 E-11	2.4 E-11	2.0 E-11
		M	0.200	3.4 E-10	0.100	2.3 E-10	1.0 E-10	6.6 E-11	4.2 E-11	3.5 E-11
		S	0.020	3.6 E-10	0.010	2.4 E-10	1.1 E-10	6.9 E-11	4.4 E-11	3.7 E-11
Zn-65	244 d	F	1.000	1.5 E-08	0.500	1.0 E-08	5.7 E-09	3.8 E-09	2.5 E-09	2.2 E-09
		M	0.200	8.5 E-09	0.100	6.5 E-09	3.7 E-09	2.4 E-09	1.9 E-09	1.6 E-09
		S	0.020	7.6 E-09	0.010	6.7 E-09	4.4 E-09	2.9 E-09	2.4 E-09	2.0 E-09
Zn-69	0.950 h	F	1.000	1.1 E-10	0.500	7.4 E-11	3.2 E-11	2.1 E-11	1.2 E-11	1.1 E-11
		M	0.200	2.2 E-10	0.100	1.4 E-10	6.5 E-11	4.4 E-11	3.1 E-11	2.6 E-11
		S	0.020	2.3 E-10	0.010	1.5 E-10	6.9 E-11	4.7 E-11	3.4 E-11	2.8 E-11
Zn-69m	13.8 h	F	1.000	6.6 E-10	0.500	6.7 E-10	3.0 E-10	1.8 E-10	9.9 E-11	8.2 E-11
		M	0.200	2.1 E-09	0.100	1.5 E-09	7.5 E-10	5.0 E-10	3.0 E-10	2.4 E-10
		S	0.020	2.2 E-09	0.010	1.7 E-09	8.2 E-10	5.4 E-10	3.3 E-10	2.7 E-10
Zn-71m	3.92 h	F	1.000	6.2 E-10	0.500	5.5 E-10	2.6 E-10	1.6 E-10	9.1 E-11	7.4 E-11
		M	0.200	1.3 E-09	0.100	9.4 E-10	4.6 E-10	2.9 E-10	1.9 E-10	1.5 E-10
		S	0.020	1.4 E-09	0.010	1.0 E-09	4.9 E-10	3.1 E-10	2.0 E-10	1.6 E-10
Zn-72	1.94 d	F	1.000	4.3 E-09	0.500	3.5 E-09	1.7 E-09	1.0 E-09	5.9 E-10	4.9 E-10
		M	0.200	8.8 E-09	0.100	6.5 E-09	3.4 E-09	2.3 E-09	1.5 E-09	1.2 E-09
		S	0.020	9.7 E-09	0.010	7.0 E-09	3.6 E-09	2.4 E-09	1.6 E-09	1.3 E-09

Galij										
Ga-65	0.253 h	F	0.010	1.1 E-10	0.001	7.3 E-11	3.4 E-11	2.1 E-11	1.3 E-11	1.1 E-11
		M	0.010	1.6 E-10	0.001	1.1 E-10	4.8 E-11	3.1 E-11	2.0 E-11	1.7 E-11
Ga-66	9.40 h	F	0.010	2.8 E-09	0.001	2.0 E-09	9.2 E-10	5.7 E-10	3.0 E-10	2.5 E-10
		M	0.010	4.5 E-09	0.001	3.1 E-09	1.5 E-09	9.2 E-10	5.3 E-10	4.4 E-10
Ga-67	3.26 d	F	0.010	6.4 E-10	0.001	4.6 E-10	2.2 E-10	1.4 E-10	7.7 E-11	6.4 E-11
		M	0.010	1.4 E-09	0.001	1.0 E-09	5.0 E-10	3.6 E-10	3.0 E-10	2.4 E-10
Ga-68	1.13 h	F	0.010	2.9 E-10	0.001	1.9 E-10	8.8 E-11	5.4 E-11	3.1 E-11	2.6 E-11
		M	0.010	4.6 E-10	0.001	3.1 E-10	1.4 E-10	9.2 E-11	5.9 E-11	4.9 E-11
Ga-70	0.353 h	F	0.010	9.5 E-11	0.001	6.0 E-11	2.6 E-11	1.6 E-11	1.0 E-11	8.8 E-12
		M	0.010	1.5 E-10	0.001	9.6 E-11	4.3 E-11	2.8 E-11	1.8 E-11	1.6 E-11
Ga-72	14.1 h	F	0.010	2.9 E-09	0.001	2.2 E-09	1.0 E-09	6.4 E-10	3.6 E-10	2.9 E-10
		M	0.010	4.5 E-09	0.001	3.3 E-09	1.6 E-09	1.0 E-09	6.5 E-10	5.3 E-10
Ga-73	4.91 h	F	0.010	6.7 E-10	0.001	4.5 E-10	2.0 E-10	1.2 E-10	6.4 E-11	5.4 E-11
		M	0.010	1.2 E-09	0.001	8.4 E-10	4.0 E-10	2.6 E-10	1.7 E-10	1.4 E-10
Germanij										
Ge-66	2.27 h	F	1.000	4.5 E-10	1.000	3.5 E-10	1.8 E-10	1.1 E-10	6.7 E-11	5.4 E-11
		M	1.000	6.4 E-10	1.000	4.8 E-10	2.5 E-10	1.6 E-10	1.1 E-10	9.1 E-11
Ge-67	0.312 h	F	1.000	1.7 E-10	1.000	1.1 E-10	4.9 E-11	3.1 E-11	1.8 E-11	1.5 E-11
		M	1.000	2.5 E-10	1.000	1.6 E-10	7.3 E-11	4.6 E-11	2.9 E-11	2.5 E-11
Ge-68	288 d	F	1.000	5.4 E-09	1.000	3.8 E-09	1.8 E-09	1.1 E-09	6.3 E-10	5.2 E-10
		M	1.000	6.0 E-08	1.000	5.0 E-08	3.0 E-08	2.0 E-08	1.6 E-08	1.4 E-08
Ge-69	1.63 d	F	1.000	1.2 E-09	1.000	9.0 E-10	4.6 E-10	2.8 E-10	1.7 E-10	1.3 E-10
		M	1.000	1.8 E-09	1.000	1.4 E-09	7.4 E-10	4.9 E-10	3.6 E-10	2.9 E-10
Ge-71	11.8 d	F	1.000	6.0 E-11	1.000	4.3 E-11	2.0 E-11	1.1 E-11	6.1 E-12	4.8 E-12
		M	1.000	1.2 E-10	1.000	8.6 E-11	4.1 E-11	2.4 E-11	1.3 E-11	1.1 E-11
Ge-75	1.38 h	F	1.000	1.6 E-10	1.000	1.0 E-10	4.3 E-11	2.8 E-11	1.7 E-11	1.5 E-11
		M	1.000	2.9 E-10	1.000	1.9 E-10	8.9 E-11	6.1 E-11	4.4 E-11	3.6 E-11
Ge-77	11.3 h	F	1.000	1.3 E-09	1.000	9.5 E-10	4.7 E-10	2.9 E-10	1.7 E-10	1.4 E-10
		M	1.000	2.3 E-09	1.000	1.7 E-09	8.8 E-10	6.0 E-10	4.5 E-10	3.7 E-10
Ge-78	1.45 h	F	1.000	4.3 E-10	1.000	2.9 E-10	1.4 E-10	8.9 E-11	5.5 E-11	4.5 E-11
		M	1.000	7.3 E-10	1.000	5.0 E-10	2.5 E-10	1.6 E-10	1.2 E-10	9.5 E-11
Arsen										
As-69	0.253 h	M	1.000	2.1 E-10	0.500	1.4 E-10	6.3 E-11	4.0 E-11	2.5 E-11	2.1 E-11
As-70	0.876 h	M	1.000	5.7 E-10	0.500	4.3 E-10	2.1 E-10	1.3 E-10	8.3 E-11	6.7 E-11
As-71	2.70 d	M	1.000	2.2 E-09	0.500	1.9 E-09	1.0 E-09	6.8 E-10	5.0 E-10	4.0 E-10
As-72	1.08 d	M	1.000	5.9 E-09	0.500	5.7 E-09	2.7 E-09	1.7 E-09	1.1 E-09	9.0 E-10
As-73	80.3 d	M	1.000	5.4 E-09	0.500	4.0 E-09	2.3 E-09	1.5 E-09	1.2 E-09	1.0 E-09
As-74	17.8 d	M	1.000	1.1 E-08	0.500	8.4 E-09	4.7 E-09	3.3 E-09	2.6 E-09	2.1 E-09
As-76	1.10 d	M	1.000	5.1 E-09	0.500	4.6 E-09	2.2 E-09	1.4 E-09	8.8 E-10	7.4 E-10
As-77	1.62 d	M	1.000	2.2 E-09	0.500	1.7 E-09	8.9 E-10	6.2 E-10	5.0 E-10	3.9 E-10
As-78	1.51 h	M	1.000	8.0 E-10	0.500	5.8 E-10	2.7 E-10	1.7 E-10	1.1 E-10	8.9 E-11
Selen										
Se-70	0.683 h	F	1.000	3.9 E-10	0.800	3.0 E-10	1.5 E-10	9.0 E-11	5.1 E-11	4.2 E-11
		M	0.200	6.5 E-10	0.100	4.7 E-10	2.3 E-10	1.4 E-10	8.9 E-11	7.3 E-11
		S	0.020	6.8 E-10	0.010	4.8 E-10	2.3 E-10	1.5 E-10	9.4 E-11	7.6 E-11
Se-73	7.15 h	F	1.000	7.7 E-10	0.800	6.5 E-10	3.3 E-10	2.1 E-10	1.0 E-10	8.0 E-11
		M	0.200	1.6 E-09	0.100	1.2 E-09	5.9 E-10	3.8 E-10	2.4 E-10	1.9 E-10
		S	0.020	1.8 E-09	0.010	1.3 E-09	6.3 E-10	4.0 E-10	2.6 E-10	2.1 E-10
Se-73m	0.650 h	F	1.000	9.3 E-11	0.800	7.2 E-11	3.5 E-11	2.3 E-11	1.1 E-11	9.2 E-12

		M	0.200	1.8 E-10	0.100	1.3 E-10	6.1 E-11	3.9 E-11	2.5 E-11	2.0 E-11
		S	0.020	1.9 E-10	0.010	1.3 E-10	6.5 E-11	4.1 E-11	2.6 E-11	2.2 E-11
Se-75	120 d	F	1.000	7.8 E-09	0.800	6.0 E-09	3.4 E-09	2.5 E-09	1.2 E-09	1.0 E-09
		M	0.200	5.4 E-09	0.100	4.5 E-09	2.5 E-09	1.7 E-09	1.3 E-09	1.1 E-09
		S	0.020	5.6 E-09	0.010	4.7 E-09	2.9 E-09	2.0 E-09	1.6 E-09	1.3 E-09
Se-79	6.50 E+04a	F	1.000	1.6 E-08	0.800	1.3 E-08	7.7 E-09	5.6 E-09	1.5 E-09	1.1 E-09
		M	0.200	1.4 E-08	0.100	1.1 E-08	6.9 E-09	4.9 E-09	3.3 E-09	2.6 E-09
		S	0.020	2.3 E-08	0.010	2.0 E-08	1.3 E-08	8.7 E-09	7.6 E-09	6.8 E-09
Se-81	0.308 h	F	1.000	8.6 E-11	0.800	5.4 E-11	2.3 E-11	1.5 E-11	9.2 E-12	8.0 E-12
		M	0.200	1.3 E-10	0.100	8.5 E-11	3.8 E-11	2.5 E-11	1.6 E-11	1.4 E-11
		S	0.020	1.4 E-10	0.010	8.9 E-11	3.9 E-11	2.6 E-11	1.7 E-11	1.5 E-11
Se-81m	0.954 h	F	1.000	1.8 E-10	0.800	1.2 E-10	5.4 E-11	3.4 E-11	1.9 E-11	1.6 E-11
		M	0.200	3.8 E-10	0.100	2.5 E-10	1.2 E-10	8.0 E-11	5.8 E-11	4.7 E-11
		S	0.020	4.1 E-10	0.010	2.7 E-10	1.3 E-10	8.5 E-11	6.2 E-11	5.1 E-11
Se-83	0.375 h	F	1.000	1.7 E-10	0.800	1.2 E-10	5.8 E-11	3.6 E-11	2.1 E-11	1.8 E-11
		M	0.200	2.7 E-10	0.100	1.9 E-10	9.2 E-11	5.9 E-11	3.9 E-11	3.2 E-11
		S	0.020	2.8 E-10	0.010	2.0 E-10	9.6 E-11	6.2 E-11	4.1 E-11	3.4 E-11
Brom										
Br-74	0.422 h	F	1.000	2.5 E-10	1.000	1.8 E-10	8.6 E-11	5.3 E-11	3.2 E-11	2.6 E-11
		M	1.000	3.6 E-10	1.000	2.5 E-10	1.2 E-10	7.5 E-11	4.6 E-11	3.8 E-11
Br-74m	0.691 h	F	1.000	4.0 E-10	1.000	2.8 E-10	1.3 E-10	8.1 E-11	4.8 E-11	3.9 E-11
		M	1.000	5.9 E-10	1.000	4.1 E-10	1.9 E-10	1.2 E-10	7.5 E-11	6.2 E-11
Br-75	1.63 h	F	1.000	2.9 E-10	1.000	2.1 E-10	9.7 E-11	5.9 E-11	3.5 E-11	2.9 E-11
		M	1.000	4.5 E-10	1.000	3.1 E-10	1.5 E-10	9.7 E-11	6.5 E-11	5.3 E-11
Br-76	16.2 h	F	1.000	2.2 E-09	1.000	1.7 E-09	8.4 E-10	5.1 E-10	3.0 E-10	2.4 E-10
		M	1.000	3.0 E-09	1.000	2.3 E-09	1.2 E-09	7.5 E-10	5.0 E-10	4.1 E-10
Br-77	2.33 d	F	1.000	5.3 E-10	1.000	4.4 E-10	2.2 E-10	1.3 E-10	7.7 E-11	6.2 E-11
		M	1.000	6.3 E-10	1.000	5.1 E-10	2.7 E-10	1.6 E-10	1.1 E-10	8.4 E-11
Br-80	0.290 h	F	1.000	7.1 E-11	1.000	4.4 E-11	1.8 E-11	1.2 E-11	6.9 E-12	5.9 E-12
		M	1.000	1.1 E-10	1.000	6.5 E-11	2.8 E-11	1.8 E-11	1.1 E-11	9.4 E-12
Br-80m	4.42 h	F	1.000	4.3 E-10	1.000	2.8 E-10	1.2 E-10	7.2 E-11	4.0 E-11	3.3 E-11
		M	1.000	6.8 E-10	1.000	4.5 E-10	2.1 E-10	1.4 E-10	9.3 E-11	7.6 E-11
Br-82	1.47 d	F	1.000	2.7 E-09	1.000	2.2 E-09	1.2 E-09	7.0 E-10	4.2 E-10	3.5 E-10
		M	1.000	3.8 E-09	1.000	3.0 E-09	1.7 E-09	1.1 E-09	7.9 E-10	6.3 E-10
Br-83	2.39 h	F	1.000	1.7 E-10	1.000	1.1 E-10	4.7 E-11	3.0 E-11	1.8 E-11	1.6 E-11
		M	1.000	3.5 E-10	1.000	2.3 E-10	1.1 E-10	7.7 E-11	5.9 E-11	4.8 E-11
Br-84	0.530 h	F	1.000	2.4 E-10	1.000	1.6 E-10	7.1 E-11	4.4 E-11	2.6 E-11	2.2 E-11
		M	1.000	3.7 E-10	1.000	2.4 E-10	1.1 E-10	6.9 E-11	4.4 E-11	3.7 E-11
Rubidij										
Rb-79	0.382 h	F	1.000	1.6 E-10	1.000	1.1 E-10	5.0 E-11	3.2 E-11	1.9 E-11	1.6 E-11
Rb-81	4.58 h	F	1.000	3.2 E-10	1.000	2.5 E-10	1.2 E-10	7.1 E-11	4.2 E-11	3.4 E-11
Rb-81m	0.533 h	F	1.000	6.2 E-11	1.000	4.6 E-11	2.2 E-11	1.4 E-11	8.5 E-12	7.0 E-12
Rb-82m	6.20 h	F	1.000	8.6 E-10	1.000	7.3 E-10	3.9 E-10	2.3 E-10	1.4 E-10	1.1 E-10
Rb-83	86.2 d	F	1.000	4.9 E-09	1.000	3.8 E-09	2.0 E-09	1.3 E-09	7.9 E-10	6.9 E-10
Rb-84	32.8 d	F	1.000	8.6 E-09	1.000	6.4 E-09	3.1 E-09	2.0 E-09	1.2 E-09	1.0 E-09
Rb-86	18.7 d	F	1.000	1.2 E-08	1.000	7.7 E-09	3.4 E-09	2.0 E-09	1.1 E-09	9.3 E-10
Rb-87	4.70E+10a	F	1.000	6.0 E-09	1.000	4.1 E-09	1.8 E-09	1.1 E-09	6.0 E-10	5.0 E-10
Rb-88	0.297 h	F	1.000	1.9 E-10	1.000	1.2 E-10	5.2 E-11	3.2 E-11	1.9 E-11	1.6 E-11
Rb-89	0.253 h	F	1.000	1.4 E-10	1.000	9.3 E-11	4.3 E-11	2.7 E-11	1.6 E-11	1.4 E-11

Stroncij										
Sr-80	1.67 h	F	0.600	7.8 E-10	0.300	5.4 E-10	2.4 E-10	1.4 E-10	7.9 E-11	7.1 E-11
		M	0.200	1.4 E-09	0.100	9.0 E-10	4.1 E-10	2.5 E-10	1.5 E-10	1.3 E-10
		S	0.020	1.5 E-09	0.010	9.4 E-10	4.3 E-10	2.7 E-10	1.6 E-10	1.4 E-10
Sr-81	0.425 h	F	0.600	2.1 E-10	0.300	1.5 E-10	6.7 E-11	4.1 E-11	2.4 E-11	2.1 E-11
		M	0.200	3.3 E-10	0.100	2.2 E-10	1.0 E-10	6.6 E-11	4.2 E-11	3.5 E-11
		S	0.020	3.4 E-10	0.010	2.3 E-10	1.1 E-10	6.9 E-11	4.4 E-11	3.7 E-11
Sr-82	25.0 d	F	0.600	2.8 E-08	0.300	1.5 E-08	6.6 E-09	4.6 E-09	3.2 E-09	2.1 E-09
		M	0.200	5.5 E-08	0.100	4.0 E-08	2.1 E-08	1.4 E-08	1.0 E-08	8.9 E-09
		S	0.020	6.1 E-08	0.010	4.6 E-08	2.5 E-08	1.7 E-08	1.2 E-08	1.1 E-08
Sr-83	1.35 d	F	0.600	1.4 E-09	0.300	1.1 E-09	5.5 E-10	3.4 E-10	2.0 E-10	1.6 E-10
		M	0.200	2.5 E-09	0.100	1.9 E-09	9.5 E-10	6.0 E-10	3.9 E-10	3.1 E-10
		S	0.020	2.8 E-09	0.010	2.0 E-09	1.0 E-09	6.5 E-10	4.2 E-10	3.4 E-10
Sr-85	64.8 d	F	0.600	4.4 E-09	0.300	2.3 E-09	1.1 E-09	9.6 E-10	8.3 E-10	3.8 E-10
		M	0.200	4.3 E-09	0.100	3.1 E-09	1.8 E-09	1.2 E-09	8.8 E-10	6.4 E-10
		S	0.020	4.4 E-09	0.010	3.7 E-09	2.2 E-09	1.3 E-09	1.0 E-09	8.1 E-10
Sr-85m	1.16 h	F	0.600	2.4 E-11	0.300	1.9 E-11	9.6 E-12	6.0 E-12	3.7 E-12	2.9 E-12
		M	0.200	3.1 E-11	0.100	2.5 E-11	1.3 E-11	8.0 E-12	5.1 E-12	4.1 E-12
		S	0.020	3.2 E-11	0.010	2.6 E-11	1.3 E-11	8.3 E-12	5.4 E-12	4.3 E-12
Sr-87m	2.80 h	F	0.600	9.7 E-11	0.300	7.8 E-11	3.8 E-11	2.3 E-11	1.3 E-11	1.1 E-11
		M	0.200	1.6 E-10	0.100	1.2 E-10	5.9 E-11	3.8 E-11	2.5 E-11	2.0 E-11
		S	0.020	1.7 E-10	0.010	1.2 E-10	6.2 E-11	4.0 E-11	2.6 E-11	2.1 E-11
Sr-89	50.5 d	F	0.600	1.5 E-08	0.300	7.3 E-09	3.2 E-09	2.3 E-09	1.7 E-09	1.0 E-09
		M	0.200	3.3 E-08	0.100	2.4 E-08	1.3 E-08	9.1 E-09	7.3 E-09	6.1 E-09
		S	0.020	3.9 E-08	0.010	3.0 E-08	1.7 E-08	1.2 E-08	9.3 E-09	7.9 E-09
Sr-90	29.1 a	F	0.600	1.3 E-07	0.300	5.2 E-08	3.1 E-08	4.1 E-08	5.3 E-08	2.4 E-08
		M	0.200	1.5 E-07	0.100	1.1 E-07	6.5 E-08	5.1 E-08	5.0 E-08	3.6 E-08
		S	0.020	4.2 E-07	0.010	4.0 E-07	2.7 E-07	1.8 E-07	1.6 E-07	1.6 E-07
Sr-91	9.50 h	F	0.600	1.4 E-09	0.300	1.1 E-09	5.2 E-10	3.1 E-10	1.7 E-10	1.6 E-10
		M	0.200	3.1 E-09	0.100	2.2 E-09	1.1 E-09	6.9 E-10	4.4 E-10	3.7 E-10
		S	0.020	3.5 E-09	0.010	2.5 E-09	1.2 E-09	7.7 E-10	4.9 E-10	4.1 E-10
Sr-92	2.71 h	F	0.600	9.0 E-10	0.300	7.1 E-10	3.3 E-10	2.0 E-10	1.0 E-10	9.8 E-11
		M	0.200	1.9 E-09	0.100	1.4 E-09	6.5 E-10	4.1 E-10	2.5 E-10	2.1 E-10
		S	0.020	2.2 E-09	0.010	1.5 E-09	7.0 E-10	4.5 E-10	2.7 E-10	2.3 E-10
Itrij										
Y-86	14.7 h	M	0.001	3.7 E-09	1.0 E-04	2.9 E-09	1.5 E-09	9.3 E-10	5.6 E-10	4.5 E-10
		S	0.001	3.8 E-09	1.0 E-04	3.0 E-09	1.5 E-09	9.6 E-10	5.8 E-10	4.7 E-10
Y-86m	0.800 h	M	0.001	2.2 E-10	1.0 E-04	1.7 E-10	8.7 E-11	5.6 E-11	3.4 E-11	2.7 E-11
		S	0.001	2.3 E-10	1.0 E-04	1.8 E-10	9.0 E-11	5.7 E-11	3.5 E-11	2.8 E-11
Y-87	3.35 d	M	0.001	2.7 E-09	1.0 E-04	2.1 E-09	1.1 E-09	7.0 E-10	4.7 E-10	3.7 E-10
		S	0.001	2.8 E-09	1.0 E-04	2.2 E-09	1.1 E-09	7.3 E-10	5.0 E-10	3.9 E-10
Y-88	107 d	M	0.001	1.9 E-08	1.0 E-04	1.6 E-08	1.0 E-08	6.7 E-09	4.9 E-09	4.1 E-09
		S	0.001	2.0 E-08	1.0 E-04	1.7 E-08	9.8 E-09	6.6 E-09	5.4 E-09	4.4 E-09
Y-90	2.67 d	M	0.001	1.3 E-08	1.0 E-04	8.4 E-09	4.0 E-09	2.6 E-09	1.7 E-09	1.4 E-09
		S	0.001	1.3 E-08	1.0 E-04	8.8 E-09	4.2 E-09	2.7 E-09	1.8 E-09	1.5 E-09
Y-90m	3.19 h	M	0.001	7.2 E-10	1.0 E-04	5.7 E-10	2.8 E-10	1.8 E-10	1.1 E-10	9.5 E-11
		S	0.001	7.5 E-10	1.0 E-04	6.0 E-10	2.9 E-10	1.9 E-10	1.2 E-10	1.0 E-10
Y-91	58.5 d	M	0.001	3.9 E-08	1.0 E-04	3.0 E-08	1.6 E-08	1.1 E-08	8.4 E-09	7.1 E-09
		S	0.001	4.3 E-08	1.0 E-04	3.4 E-08	1.9 E-08	1.3 E-08	1.0 E-08	8.9 E-09
Y-91m	0.828 h	M	0.001	7.0 E-11	1.0 E-04	5.5 E-11	2.9 E-11	1.8 E-11	1.2 E-11	1.0 E-11
		S	0.001	7.4 E-11	1.0 E-04	5.9 E-11	3.1 E-11	2.0 E-11	1.4 E-11	1.1 E-11

Y-92	3.54 h	M	0.001	1.8 E-09	1.0 E-04	1.2 E-09	5.3 E-10	3.3 E-10	2.0 E-10	1.7 E-10
		S	0.001	1.9 E-09	1.0 E-04	1.2 E-09	5.5 E-10	3.5 E-10	2.1 E-10	1.8 E-10
Y-93	10.1 h	M	0.001	4.4 E-09	1.0 E-04	2.9 E-09	1.3 E-09	8.1 E-10	4.7 E-10	4.0 E-10
		S	0.001	4.6 E-09	1.0 E-04	3.0 E-09	1.4 E-09	8.5 E-10	5.0 E-10	4.2 E-10
Y-94	0.318 h	M	0.001	2.8 E-10	1.0 E-04	1.8 E-10	8.1 E-11	5.0 E-11	3.1 E-11	2.7 E-11
		S	0.001	2.9 E-10	1.0 E-04	1.9 E-10	8.4 E-11	5.2 E-11	3.3 E-11	2.8 E-11
Y-95	0.178 h	M	0.001	1.5 E-10	1.0 E-04	9.8 E-11	4.4 E-11	2.8 E-11	1.8 E-11	1.5 E-11
		S	0.001	1.6 E-10	1.0 E-04	1.0 E-10	4.5 E-11	2.9 E-11	1.8 E-11	1.6 E-11
Cirkonij										
Zr-86	16.5 h	F	0.020	2.4 E-09	0.002	1.9 E-09	9.5 E-10	5.9 E-10	3.4 E-10	2.7 E-10
		M	0.020	3.4 E-09	0.002	2.6 E-09	1.3 E-09	8.4 E-10	5.2 E-10	4.2 E-10
		S	0.020	3.5 E-09	0.002	2.7 E-09	1.4 E-09	8.7 E-10	5.4 E-10	4.3 E-10
Zr-88	83.4 d	F	0.020	6.9 E-09	0.002	8.3 E-09	5.6 E-09	4.7 E-09	3.6 E-09	3.5 E-09
		M	0.020	8.5 E-09	0.002	7.8 E-09	5.1 E-09	3.6 E-09	3.0 E-09	2.6 E-09
		S	0.020	1.3 E-08	0.002	1.2 E-08	7.7 E-09	5.2 E-09	4.3 E-09	3.6 E-09
Zr-89	3.27 d	F	0.020	2.6 E-09	0.002	2.0 E-09	9.9 E-10	6.1 E-10	3.6 E-10	2.9 E-10
		M	0.020	3.7 E-09	0.002	2.8 E-09	1.5 E-09	9.6 E-10	6.5 E-10	5.2 E-10
		S	0.020	3.9 E-09	0.002	2.9 E-09	1.5 E-09	1.0 E-09	6.8 E-10	5.5 E-10
Zr-93	1.53 E+06a	F	0.020	3.5 E-09	0.002	4.8 E-09	5.3 E-09	9.7 E-09	1.8 E-08	2.5 E-08
		M	0.020	3.3 E-09	0.002	3.1 E-09	2.8 E-09	4.1 E-09	7.5 E-09	1.0 E-08
		S	0.020	7.0 E-09	0.002	6.4 E-09	4.5 E-09	3.3 E-09	3.3 E-09	3.3 E-09
Zr-95	64.0 d	F	0.020	1.2 E-08	0.002	1.1 E-08	6.4 E-09	4.2 E-09	2.8 E-09	2.5 E-09
		M	0.020	2.0 E-08	0.002	1.6 E-08	9.7 E-09	6.8 E-09	5.9 E-09	4.8 E-09
		S	0.020	2.4 E-08	0.002	1.9 E-08	1.2 E-08	8.3 E-09	7.3 E-09	5.9 E-09
Zr-97	16.9 h	F	0.020	5.0 E-09	0.002	3.4 E-09	1.5 E-09	9.1 E-10	4.8 E-10	3.9 E-10
		M	0.020	7.8 E-09	0.002	5.3 E-09	2.8 E-09	1.8 E-09	1.1 E-09	9.2 E-10
		S	0.020	8.2 E-09	0.002	5.6 E-09	2.9 E-09	1.9 E-09	1.2 E-09	8.9 E-10
Niobij										
Nb-88	0.238 h	F	0.020	1.8 E-10	0.010	1.3 E-10	6.3 E-11	3.9 E-11	2.4 E-11	1.9 E-11
		M	0.020	2.5 E-10	0.010	1.8 E-10	8.5 E-11	5.3 E-11	3.3 E-11	2.7 E-11
		S	0.020	2.6 E-10	0.010	1.8 E-10	8.7 E-11	5.5 E-11	3.5 E-11	2.8 E-11
Nb-89	2.03 h	F	0.020	7.0 E-10	0.010	4.8 E-10	2.2 E-10	1.3 E-10	7.4 E-11	6.1 E-11
		M	0.020	1.1 E-09	0.010	7.6 E-10	3.6 E-10	2.2 E-10	1.4 E-10	1.1 E-10
		S	0.020	1.2 E-09	0.010	7.9 E-10	3.7 E-10	2.3 E-10	1.5 E-10	1.2 E-10
Nb-89	1.10 h	F	0.020	4.0 E-10	0.010	2.9 E-10	1.4 E-10	8.3 E-11	4.8 E-11	3.9 E-11
		M	0.020	6.2 E-10	0.010	4.3 E-10	2.1 E-10	1.3 E-10	8.2 E-11	6.8 E-11
		S	0.020	6.4 E-10	0.010	4.4 E-10	2.1 E-10	1.4 E-10	8.6 E-11	7.1 E-11
Nb-90	14.6 h	F	0.020	3.5 E-09	0.010	2.7 E-09	1.3 E-09	8.2 E-10	4.7 E-10	3.8 E-10
		M	0.020	5.1 E-09	0.010	3.9 E-09	1.9 E-09	1.3 E-09	7.8 E-10	6.3 E-10
		S	0.020	5.3 E-09	0.010	4.0 E-09	2.0 E-09	1.3 E-09	8.1 E-10	6.6 E-10
Nb-93m	13.6 a	F	0.020	1.8 E-09	0.010	1.4 E-09	7.0 E-10	4.4 E-10	2.7 E-10	2.2 E-10
		M	0.020	3.1 E-09	0.010	2.4 E-09	1.3 E-09	8.2 E-10	5.9 E-10	5.1 E-10
		S	0.020	7.4 E-09	0.010	6.5 E-09	4.0 E-09	2.5 E-09	1.9 E-09	1.8 E-09
Nb-94	2.03 E+04a	F	0.020	3.1 E-08	0.010	2.7 E-08	1.5 E-08	1.0 E-08	6.7 E-09	5.8 E-09
		M	0.020	4.3 E-08	0.010	3.7 E-08	2.3 E-08	1.6 E-08	1.3 E-08	1.1 E-08
		S	0.020	1.2 E-07	0.010	1.2 E-07	8.3 E-08	5.8 E-08	5.2 E-08	4.9 E-08
Nb-95	35.1 d	F	0.020	4.1 E-09	0.010	3.1 E-09	1.6 E-09	1.2 E-09	7.5 E-10	5.7 E-10
		M	0.020	6.8 E-09	0.010	5.2 E-09	3.1 E-09	2.2 E-09	1.9 E-09	1.5 E-09
		S	0.020	7.7 E-09	0.010	5.9 E-09	3.6 E-09	2.5 E-09	2.2 E-09	1.8 E-09
Nb-95m	3.61 d	F	0.020	2.3 E-09	0.010	1.6 E-09	7.0 E-10	4.2 E-10	2.4 E-10	2.0 E-10

Nb-96	23.3 h	M	0.020	4.3 E-09	0.010	3.1 E-09	1.7 E-09	1.2 E-09	1.0 E-09	7.9 E-10
		S	0.020	4.6 E-09	0.010	3.4 E-09	1.9 E-09	1.3 E-09	1.1 E-09	8.8 E-10
		F	0.020	3.1 E-09	0.010	2.4 E-09	1.2 E-09	7.3 E-10	4.2 E-10	3.4 E-10
Nb-97	1.20 h	M	0.020	4.7 E-09	0.010	3.6 E-09	1.8 E-09	1.2 E-09	7.8 E-10	6.3 E-10
		S	0.020	4.9 E-09	0.010	3.7 E-09	1.9 E-09	1.2 E-09	8.3 E-10	6.6 E-10
		F	0.020	2.2 E-10	0.010	1.5 E-10	6.8 E-11	4.2 E-11	2.5 E-11	2.1 E-11
Nb-98	0.858 h	M	0.020	3.7 E-10	0.010	2.5 E-10	1.2 E-10	7.7 E-11	5.2 E-11	4.3 E-11
		S	0.020	3.8 E-10	0.010	2.6 E-10	1.2 E-10	8.1 E-11	5.5 E-11	4.5 E-11
		F	0.020	3.4 E-10	0.010	2.4 E-10	1.1 E-10	6.9 E-11	4.1 E-11	3.3 E-11
Molibden	5.67 h	M	0.020	5.2 E-10	0.010	3.6 E-10	1.7 E-10	1.1 E-10	6.8 E-11	5.6 E-11
		S	0.020	5.3 E-10	0.010	3.7 E-10	1.8 E-10	1.1 E-10	7.1 E-11	5.8 E-11
		F	1.000	1.2 E-09	0.800	1.1 E-09	5.3 E-10	3.2 E-10	1.9 E-10	1.5 E-10
Mo-90	3.50 E+03a	M	0.200	2.6 E-09	0.100	2.0 E-09	9.9 E-10	6.5 E-10	4.2 E-10	3.4 E-10
		S	0.020	2.8 E-09	0.010	2.1 E-09	1.1 E-09	6.9 E-10	4.5 E-10	3.6 E-10
		F	1.000	3.1 E-09	0.800	2.6 E-09	1.7 E-09	1.3 E-09	1.1 E-09	1.0 E-09
Mo-93m	6.85 h	M	0.200	2.2 E-09	0.100	1.8 E-09	1.1 E-09	7.9 E-10	6.6 E-10	5.9 E-10
		S	0.020	6.0 E-09	0.010	5.8 E-09	4.0 E-09	2.8 E-09	2.4 E-09	2.3 E-09
		F	1.000	7.3 E-10	0.800	6.4 E-10	3.3 E-10	2.0 E-10	1.2 E-10	9.6 E-11
Mo-99	2.75 d	M	0.200	1.2 E-09	0.100	9.7 E-10	5.0 E-10	3.2 E-10	2.0 E-10	1.6 E-10
		S	0.020	1.3 E-09	0.010	1.0 E-09	5.2 E-10	3.4 E-10	2.1 E-10	1.7 E-10
		F	1.000	2.3 E-09	0.800	1.7 E-09	7.7 E-10	4.7 E-10	2.6 E-10	2.2 E-10
Mo-101	0.244 h	M	0.200	6.0 E-09	0.100	4.4 E-09	2.2 E-09	1.5 E-09	1.1 E-09	8.9 E-10
		S	0.020	6.9 E-09	0.010	4.8 E-09	2.4 E-09	1.7 E-09	1.2 E-09	9.9 E-10
		F	1.000	1.4 E-10	0.800	9.7 E-11	4.4 E-11	2.8 E-11	1.7 E-11	1.4 E-11
Tehnecij	2.75 h	M	0.200	2.2 E-10	0.100	1.5 E-10	7.0 E-11	4.5 E-11	3.0 E-11	2.5 E-11
		S	0.020	2.3 E-10	0.010	1.6 E-10	7.2 E-11	4.7 E-11	3.1 E-11	2.6 E-11
		F	1.000	2.4 E-10	0.800	2.1 E-10	1.1 E-10	6.7 E-11	4.0 E-11	3.2 E-11
Tc-93m	0.725 h	M	0.200	2.7 E-10	0.100	2.3 E-10	1.2 E-10	7.5 E-11	4.4 E-11	3.5 E-11
		S	0.020	2.8 E-10	0.010	2.3 E-10	1.2 E-10	7.6 E-11	4.5 E-11	3.5 E-11
		F	1.000	1.2 E-10	0.800	9.8 E-11	4.9 E-11	2.9 E-11	1.8 E-11	1.4 E-11
Tc-94	4.88 h	M	0.200	1.4 E-10	0.100	1.1 E-10	5.4 E-11	3.4 E-11	2.1 E-11	1.7 E-11
		S	0.020	1.4 E-10	0.010	1.1 E-10	5.4 E-11	3.4 E-11	2.1 E-11	1.7 E-11
		F	1.000	8.9 E-10	0.800	7.5 E-10	3.9 E-10	2.3 E-10	1.4 E-10	1.1 E-10
Tc-94m	0.867 h	M	0.200	9.8 E-10	0.100	8.1 E-10	4.2 E-10	2.6 E-10	1.6 E-10	1.2 E-10
		S	0.020	9.9 E-10	0.010	8.2 E-10	4.3 E-10	2.7 E-10	1.6 E-10	1.3 E-10
		F	1.000	4.8 E-10	0.800	3.4 E-10	1.6 E-10	8.6 E-11	5.2 E-11	4.1 E-11
Tc-95	20.0 h	M	0.200	4.4 E-10	0.100	3.0 E-10	1.4 E-10	8.8 E-11	5.5 E-11	4.5 E-11
		S	0.020	4.3 E-10	0.010	3.0 E-10	1.4 E-10	8.8 E-11	5.6 E-11	4.6 E-11
		F	1.000	7.5 E-10	0.800	6.3 E-10	3.3 E-10	2.0 E-10	1.2 E-10	9.6 E-11
Tc-95m	61.0 d	M	0.200	8.3 E-10	0.100	6.9 E-10	3.6 E-10	2.2 E-10	1.3 E-10	1.0 E-10
		S	0.020	8.5 E-10	0.010	7.0 E-10	3.6 E-10	2.3 E-10	1.4 E-10	1.1 E-10
		F	1.000	2.4 E-09	0.800	1.8 E-09	9.3 E-10	5.7 E-10	3.6 E-10	2.9 E-10
Tc-96	4.28 d	M	0.200	4.9 E-09	0.100	4.0 E-09	2.3 E-09	1.5 E-09	1.1 E-09	8.8 E-10
		S	0.020	6.0 E-09	0.010	5.0 E-09	2.7 E-09	1.8 E-09	1.5 E-09	1.2 E-09
		F	1.000	4.2 E-09	0.800	3.4 E-09	1.8 E-09	1.1 E-09	7.0 E-10	5.7 E-10
Tc-96m	0.858 h	M	0.200	4.7 E-09	0.100	3.9 E-09	2.1 E-09	1.3 E-09	8.6 E-10	6.8 E-10
		S	0.020	4.8 E-09	0.010	3.9 E-09	2.1 E-09	1.4 E-09	8.9 E-10	7.0 E-10
		F	1.000	5.3 E-11	0.800	4.1 E-11	2.1 E-11	1.3 E-11	7.7 E-12	6.2 E-12

Tc-97	2.60 E+06a	M	0.200	5.6 E-11	0.100	4.4 E-11	2.3 E-11	1.4 E-11	9.3 E-12	7.4 E-12
		S	0.020	5.7 E-11	0.010	4.4 E-11	2.3 E-11	1.5 E-11	9.5 E-12	7.5 E-12
		F	1.000	5.2 E-10	0.800	3.7 E-10	1.7 E-10	9.4 E-11	5.6 E-11	4.3 E-11
Tc-97m	87.0 d	M	0.200	1.2 E-09	0.100	1.0 E-09	5.7 E-10	3.6 E-10	2.8 E-10	2.2 E-10
		S	0.020	5.0 E-09	0.010	4.8 E-09	3.3 E-09	2.2 E-09	1.9 E-09	1.8 E-09
		F	1.000	3.4 E-09	0.800	2.3 E-09	9.8 E-10	5.6 E-10	3.0 E-10	2.7 E-10
Tc-98	4.20 E+06a	M	0.200	1.3 E-08	0.100	1.0 E-08	6.1 E-09	4.4 E-09	4.1 E-09	3.2 E-09
		S	0.020	1.6 E-08	0.010	1.3 E-08	7.8 E-09	5.7 E-09	5.2 E-09	4.1 E-09
		F	1.000	1.0 E-08	0.800	6.8 E-09	3.2 E-09	1.9 E-09	1.2 E-09	9.7 E-10
Tc-99	2.13 E+05a	M	0.200	3.5 E-08	0.100	2.9 E-08	1.7 E-08	1.2 E-08	1.0 E-08	8.3 E-09
		S	0.020	1.1 E-07	0.010	1.1 E-07	7.6 E-08	5.4 E-08	4.8 E-08	4.5 E-08
		F	1.000	4.0 E-09	0.800	2.5 E-09	1.0 E-09	5.9 E-10	3.6 E-10	2.9 E-10
Tc-99m	6.02 h	M	0.200	1.7 E-08	0.100	1.3 E-08	8.0 E-09	5.7 E-09	5.0 E-09	4.0 E-09
		S	0.020	4.1 E-08	0.010	3.7 E-08	2.4 E-08	1.7 E-08	1.5 E-08	1.3 E-08
		F	1.000	1.2 E-10	0.800	8.7 E-11	4.1 E-11	2.4 E-11	1.5 E-11	1.2 E-11
Tc-101	0.237 h	M	0.200	1.3 E-10	0.100	9.9 E-11	5.1 E-11	3.4 E-11	2.4 E-11	1.9 E-11
		S	0.020	1.3 E-10	0.010	1.0 E-10	5.2 E-11	3.5 E-11	2.5 E-11	2.0 E-11
		F	1.000	8.5 E-11	0.800	5.6 E-11	2.5 E-11	1.6 E-11	9.7 E-12	8.2 E-12
Tc-104	0.303 h	M	0.200	1.1 E-10	0.100	7.1 E-11	3.2 E-11	2.1 E-11	1.4 E-11	1.2 E-11
		S	0.020	1.1 E-10	0.010	7.3 E-11	3.3 E-11	2.2 E-11	1.4 E-11	1.2 E-11
		F	1.000	2.7 E-10	0.800	1.8 E-10	8.0 E-11	4.6 E-11	2.8 E-11	2.3 E-11
Rutenij	0.863 h	M	0.200	2.9 E-10	0.100	1.9 E-10	8.6 E-11	5.4 E-11	3.3 E-11	2.8 E-11
		S	0.020	2.9 E-10	0.010	1.9 E-10	8.7 E-11	5.4 E-11	3.4 E-11	2.9 E-11
		F	1.000	2.7 E-10	0.800	1.8 E-10	8.0 E-11	4.6 E-11	2.8 E-11	2.3 E-11
Ru-94	0.863 h	F	0.100	2.5 E-10	0.050	1.9 E-10	9.0 E-11	5.4 E-11	3.1 E-11	2.5 E-11
		M	0.100	3.8 E-10	0.050	2.8 E-10	1.3 E-10	8.4 E-11	5.2 E-11	4.2 E-11
		S	0.020	4.0 E-10	0.010	2.9 E-10	1.4 E-10	8.7 E-11	5.4 E-11	4.4 E-11
Ru-97	2.90 d	F	0.100	5.5 E-10	0.050	4.4 E-10	2.2 E-10	1.3 E-10	7.7 E-11	6.2 E-11
		M	0.100	7.7 E-10	0.050	6.1 E-10	3.1 E-10	2.0 E-10	1.3 E-10	1.0 E-10
		S	0.020	8.1 E-10	0.010	6.3 E-10	3.3 E-10	2.1 E-10	1.4 E-10	1.1 E-10
Ru-103	39.3 d	F	0.100	4.2 E-09	0.050	3.0 E-09	1.5 E-09	9.3 E-10	5.6 E-10	4.8 E-10
		M	0.100	1.1 E-08	0.050	8.4 E-09	5.0 E-09	3.5 E-09	3.0 E-09	2.4 E-09
		S	0.020	1.3 E-08	0.010	1.0 E-08	6.0 E-09	4.2 E-09	3.7 E-09	3.0 E-09
Ru-105	4.44 h	F	0.100	7.1 E-10	0.050	5.1 E-10	2.3 E-10	1.4 E-10	7.9 E-11	6.5 E-11
		M	0.100	1.3 E-09	0.050	9.2 E-10	4.5 E-10	3.0 E-10	2.0 E-10	1.7 E-10
		S	0.020	1.4 E-09	0.010	9.8 E-10	4.8 E-10	3.2 E-10	2.2 E-10	1.8 E-10
Ru-106	1.01 a	F	0.100	7.2 E-08	0.050	5.4 E-08	2.6 E-08	1.6 E-08	9.2 E-09	7.9 E-09
		M	0.100	1.4 E-07	0.050	1.1 E-07	6.4 E-08	4.1 E-08	3.1 E-08	2.8 E-08
		S	0.020	2.6 E-07	0.010	2.3 E-07	1.4 E-07	9.1 E-08	7.1 E-08	6.6 E-08
Rodij	16.0 d	F	0.100	2.6 E-09	0.050	2.0 E-09	9.9 E-10	6.2 E-10	3.8 E-10	3.2 E-10
		M	0.100	4.5 E-09	0.050	3.5 E-09	2.0 E-09	1.3 E-09	9.6 E-10	7.7 E-10
		S	0.100	4.9 E-09	0.050	3.8 E-09	2.2 E-09	1.3 E-09	1.1 E-09	8.7 E-10
Rh-99m	4.70 h	F	0.100	2.4 E-10	0.050	2.0 E-10	1.0 E-10	6.1 E-11	3.5 E-11	2.8 E-11
		M	0.100	3.1 E-10	0.050	2.5 E-10	1.3 E-10	8.0 E-11	4.9 E-11	3.9 E-11
		S	0.100	3.2 E-10	0.050	2.6 E-10	1.3 E-10	8.2 E-11	5.1 E-11	4.0 E-11
Rh-100	20.8 h	F	0.100	2.1 E-09	0.050	1.8 E-09	9.1 E-10	5.6 E-10	3.3 E-10	2.6 E-10
		M	0.100	2.7 E-09	0.050	2.2 E-09	1.1 E-09	7.1 E-10	4.3 E-10	3.4 E-10
		S	0.100	2.8 E-09	0.050	2.2 E-09	1.2 E-09	7.3 E-10	4.4 E-10	3.5 E-10
Rh-101	3.20 a	F	0.100	7.4 E-09	0.050	6.1 E-09	3.5 E-09	2.3 E-09	1.5 E-09	1.4 E-09

Rh-101m	4.34 d	M	0.100	9.8 E-09	0.050	8.0 E-09	4.9 E-09	3.4 E-09	2.8 E-09	2.3 E-09
		S	0.100	1.9 E-08	0.050	1.7 E-08	1.1 E-08	7.4 E-09	6.2 E-09	5.4 E-09
		F	0.100	8.4 E-10	0.050	6.6 E-10	3.3 E-10	2.0 E-10	1.2 E-10	9.7 E-11
Rh-102	2.90 a	M	0.100	1.3 E-09	0.050	9.8 E-10	5.2 E-10	3.5 E-10	2.5 E-10	1.9 E-10
		S	0.100	1.3 E-09	0.050	1.0 E-09	5.5 E-10	3.7 E-10	2.7 E-10	2.1 E-10
		F	0.100	3.3 E-08	0.050	2.8 E-08	1.7 E-08	1.1 E-08	7.9 E-09	7.3 E-09
Rh-102m	207 d	M	0.100	3.0 E-08	0.050	2.5 E-08	1.5 E-08	1.0 E-08	7.9 E-09	6.9 E-09
		S	0.100	5.4 E-08	0.050	5.0 E-08	3.5 E-08	2.4 E-08	2.0 E-08	1.7 E-08
		F	0.100	1.2 E-08	0.050	8.7 E-09	4.4 E-09	2.7 E-09	1.7 E-09	1.5 E-09
Rh-103m	0.935 h	M	0.100	2.0 E-08	0.050	1.6 E-08	9.0 E-09	6.0 E-09	4.7 E-09	4.0 E-09
		S	0.100	3.0 E-08	0.050	2.5 E-08	1.5 E-08	1.0 E-08	8.2 E-09	7.1 E-09
		F	0.100	8.6 E-12	0.050	5.9 E-12	2.7 E-12	1.6 E-12	1.0 E-12	8.6 E-13
Rh-105	1.47 d	M	0.100	1.9 E-11	0.050	1.2 E-11	6.3 E-12	4.0 E-12	3.0 E-12	2.5 E-12
		S	0.100	2.0 E-11	0.050	1.3 E-11	6.7 E-12	4.3 E-12	3.2 E-12	2.7 E-12
		F	0.100	1.0 E-09	0.050	6.9 E-10	3.0 E-10	1.8 E-10	9.6 E-11	8.2 E-11
Rh-106m	2.20 h	M	0.100	2.2 E-09	0.050	1.6 E-09	7.4 E-10	5.2 E-10	4.1 E-10	3.2 E-10
		S	0.100	2.4 E-09	0.050	1.7 E-09	8.0 E-10	5.6 E-10	4.5 E-10	3.5 E-10
		F	0.100	5.7 E-10	0.050	4.5 E-10	2.2 E-10	1.4 E-10	8.0 E-11	6.5 E-11
Rh-107	0.362 h	M	0.100	8.2 E-10	0.050	6.3 E-10	3.2 E-10	2.0 E-10	1.3 E-10	1.1 E-10
		S	0.100	8.5 E-10	0.050	6.5 E-10	3.3 E-10	2.1 E-10	1.4 E-10	1.1 E-10
		F	0.100	8.9 E-11	0.050	5.9 E-11	2.6 E-11	1.7 E-11	1.0 E-11	9.0 E-12
Paladij Pd-100	3.63 d	M	0.100	1.4 E-10	0.050	9.3 E-11	4.2 E-11	2.8 E-11	1.9 E-11	1.6 E-11
		S	0.100	1.5 E-10	0.050	9.7 E-11	4.4 E-11	2.9 E-11	1.9 E-11	1.7 E-11
		F	0.050	3.9 E-09	0.005	3.0 E-09	1.5 E-09	9.7 E-10	5.8 E-10	4.7 E-10
Pd-101	8.27 h	M	0.050	5.2 E-09	0.005	4.0 E-09	2.2 E-09	1.4 E-09	9.9 E-10	8.0 E-10
		S	0.050	5.3 E-09	0.005	4.1 E-09	2.2 E-09	1.5 E-09	1.0 E-09	8.5 E-10
		F	0.050	3.6 E-10	0.005	2.9 E-10	1.4 E-10	8.6 E-11	4.9 E-11	3.9 E-11
Pd-103	17.0 d	M	0.050	4.8 E-10	0.005	3.8 E-10	1.9 E-10	1.2 E-10	7.5 E-11	5.9 E-11
		S	0.050	5.0 E-10	0.005	3.9 E-10	2.0 E-10	1.2 E-10	7.8 E-11	6.2 E-11
		F	0.050	9.7 E-10	0.005	6.5 E-10	3.0 E-10	1.9 E-10	1.1 E-10	8.9 E-11
Pd-107	6.50 E+06a	M	0.050	2.3 E-09	0.005	1.6 E-09	9.0 E-10	5.9 E-10	4.5 E-10	3.8 E-10
		S	0.050	2.5 E-09	0.005	1.8 E-09	1.0 E-09	6.8 E-10	5.3 E-10	4.5 E-10
		F	0.050	2.6 E-10	0.005	1.8 E-10	8.2 E-11	5.2 E-11	3.1 E-11	2.5 E-11
Pd-109	13.4 h	M	0.050	6.5 E-10	0.005	5.0 E-10	2.6 E-10	1.5 E-10	1.0 E-10	8.5 E-11
		S	0.050	2.2 E-09	0.005	2.0 E-09	1.3 E-09	7.8 E-10	6.2 E-10	5.9 E-10
		F	0.050	1.5 E-09	0.005	9.9 E-10	4.2 E-10	2.6 E-10	1.4 E-10	1.2 E-10
Srebro Ag-102	0.215 h	M	0.050	2.6 E-09	0.005	1.8 E-09	8.8 E-10	5.9 E-10	4.3 E-10	3.4 E-10
		S	0.050	2.7 E-09	0.005	1.9 E-09	9.3 E-10	6.3 E-10	4.6 E-10	3.7 E-10
		F	0.100	1.2 E-10	0.050	8.6 E-11	4.2 E-11	2.6 E-11	1.5 E-11	1.3 E-11
Ag-103	1.09 h	M	0.100	1.6 E-10	0.050	1.1 E-10	5.5 E-11	3.4 E-11	2.1 E-11	1.7 E-11
		S	0.020	1.6 E-10	0.010	1.2 E-10	5.6 E-11	3.5 E-11	2.2 E-11	1.8 E-11
		F	0.100	1.4 E-10	0.050	1.0 E-10	4.9 E-11	3.0 E-11	1.8 E-11	1.4 E-11
Ag-104	1.15 h	M	0.100	2.2 E-10	0.050	1.6 E-10	7.6 E-11	4.8 E-11	3.2 E-11	2.6 E-11
		S	0.020	2.3 E-10	0.010	1.6 E-10	7.9 E-11	5.1 E-11	3.3 E-11	2.7 E-11
		F	0.100	2.3 E-10	0.050	1.9 E-10	9.8 E-11	5.9 E-11	3.5 E-11	2.8 E-11
Ag-104m	0.558 h	M	0.100	2.9 E-10	0.050	2.3 E-10	1.2 E-10	7.4 E-11	4.5 E-11	3.6 E-11
		S	0.020	2.9 E-10	0.010	2.4 E-10	1.2 E-10	7.6 E-11	4.6 E-11	3.7 E-11
		F	0.100	1.6 E-10	0.050	1.1 E-10	5.5 E-11	3.4 E-11	2.0 E-11	1.6 E-11

Ag-105	41.0 d	M	0.100	2.3 E-10	0.050	1.6 E-10	7.7 E-11	4.8 E-11	3.0 E-11	2.5 E-11
		S	0.020	2.4 E-10	0.010	1.7 E-10	8.0 E-11	5.0 E-11	3.1 E-11	2.6 E-11
		F	0.100	3.9 E-09	0.050	3.4 E-09	1.7 E-09	1.0 E-09	6.4 E-10	5.4 E-10
Ag-106	0.399 h	M	0.100	4.5 E-09	0.050	3.5 E-09	2.0 E-09	1.3 E-09	9.0 E-10	7.3 E-10
		S	0.020	4.5 E-09	0.010	3.6 E-09	2.1 E-09	1.3 E-09	1.0 E-09	8.1 E-10
		F	0.100	9.4 E-11	0.050	6.4 E-11	2.9 E-11	1.8 E-11	1.1 E-11	9.1 E-12
Ag-106m	8.41 d	M	0.100	1.4 E-10	0.050	9.5 E-11	4.4 E-11	2.8 E-11	1.8 E-11	1.5 E-11
		S	0.020	1.5 E-10	0.010	9.9 E-11	4.5 E-11	2.9 E-11	1.9 E-11	1.6 E-11
		F	0.100	7.7 E-09	0.050	6.1 E-09	3.2 E-09	2.1 E-09	1.3 E-09	1.1 E-09
Ag-108m	1.27 E+02a	M	0.100	7.2 E-09	0.050	5.8 E-09	3.2 E-09	2.1 E-09	1.4 E-09	1.1 E-09
		S	0.020	7.0 E-09	0.010	5.7 E-09	3.2 E-09	2.1 E-09	1.4 E-09	1.1 E-09
		F	0.100	3.5 E-08	0.050	2.8 E-08	1.6 E-08	1.0 E-08	6.9 E-09	6.1 E-09
Ag-110m	250 d	M	0.100	3.3 E-08	0.050	2.7 E-08	1.7 E-08	1.1 E-08	8.6 E-09	7.4 E-09
		S	0.020	8.9 E-08	0.010	8.7 E-08	6.2 E-08	4.4 E-08	3.9 E-08	3.7 E-08
		F	0.100	3.5 E-08	0.050	2.8 E-08	1.5 E-08	9.7 E-09	6.3 E-09	5.5 E-09
Ag-111	7.45 d	M	0.100	3.5 E-08	0.050	2.8 E-08	1.7 E-08	1.2 E-08	9.2 E-09	7.6 E-09
		S	0.020	4.6 E-08	0.010	4.1 E-08	2.6 E-08	1.8 E-08	1.5 E-08	1.2 E-08
		F	0.100	4.8 E-09	0.050	3.2 E-09	1.4 E-09	8.8 E-10	4.8 E-10	4.0 E-10
Ag-112	3.12 h	M	0.100	9.2 E-09	0.050	6.6 E-09	3.5 E-09	2.4 E-09	1.9 E-09	1.5 E-09
		S	0.020	9.9 E-09	0.010	7.1 E-09	3.8 E-09	2.7 E-09	2.1 E-09	1.7 E-09
		F	0.100	9.8 E-10	0.050	6.4 E-10	2.8 E-10	1.7 E-10	9.1 E-11	7.6 E-11
Ag-115	0.333 h	M	0.100	1.7 E-09	0.050	1.1 E-09	5.1 E-10	3.2 E-10	2.0 E-10	1.6 E-10
		S	0.020	1.8 E-09	0.010	1.2 E-09	5.4 E-10	3.4 E-10	2.1 E-10	1.7 E-10
		F	0.100	1.6 E-10	0.050	1.0 E-10	4.6 E-11	2.9 E-11	1.7 E-11	1.5 E-11
Kadmij	0.961 h	M	0.100	2.5 E-10	0.050	1.7 E-10	7.6 E-11	4.9 E-11	3.2 E-11	2.7 E-11
		S	0.020	2.7 E-10	0.010	1.7 E-10	8.0 E-11	5.2 E-11	3.4 E-11	2.9 E-11
		F	0.100	2.0 E-10	0.050	1.7 E-10	8.7 E-11	5.2 E-11	3.1 E-11	2.4 E-11
Cd-104	6.49 h	M	0.100	2.6 E-10	0.050	2.1 E-10	1.1 E-10	6.9 E-11	4.2 E-11	3.4 E-11
		S	0.100	2.7 E-10	0.050	2.2 E-10	1.1 E-10	7.0 E-11	4.4 E-11	3.5 E-11
		F	0.100	2.3 E-10	0.050	1.7 E-10	7.4 E-11	4.6 E-11	2.5 E-11	2.1 E-11
Cd-107	1.27 a	M	0.100	5.2 E-10	0.050	3.7 E-10	2.0 E-10	1.3 E-10	8.8 E-11	8.3 E-11
		S	0.100	5.5 E-10	0.050	3.9 E-10	2.1 E-10	1.4 E-10	9.7 E-11	7.7 E-11
		F	0.100	4.5 E-08	0.050	3.7 E-08	2.1 E-08	1.4 E-08	9.3 E-09	8.1 E-09
Cd-109	9.30 E+15a	M	0.100	3.0 E-08	0.050	2.3 E-08	1.4 E-08	9.5 E-09	7.8 E-09	6.6 E-09
		S	0.100	2.7 E-08	0.050	2.1 E-08	1.3 E-08	8.9 E-09	7.6 E-09	6.2 E-09
		F	0.100	2.6 E-07	0.050	2.4 E-07	1.7 E-07	1.4 E-07	1.2 E-07	1.2 E-07
Cd-113	13.6 a	M	0.100	1.2 E-07	0.050	1.0 E-07	7.6 E-08	6.1 E-08	5.7 E-08	5.5 E-08
		S	0.100	7.8 E-08	0.050	5.8 E-08	4.1 E-08	3.0 E-08	2.7 E-08	2.6 E-08
		F	0.100	3.0 E-07	0.050	2.7 E-07	1.8 E-07	1.3 E-07	1.1 E-07	1.1 E-07
Cd-113m	2.23 d	M	0.100	1.4 E-07	0.050	1.2 E-07	8.1 E-08	6.0 E-08	5.3 E-08	5.2 E-08
		S	0.100	1.1 E-07	0.050	8.4 E-08	5.5 E-08	3.9 E-08	3.3 E-08	3.1 E-08
		F	0.100	4.0 E-09	0.050	2.6 E-09	1.2 E-09	7.5 E-10	4.3 E-10	3.5 E-10
Cd-115	44.6 d	M	0.100	6.7 E-09	0.050	4.8 E-09	2.4 E-09	1.7 E-09	1.2 E-09	9.8 E-10
		S	0.100	7.2 E-09	0.050	5.1 E-09	2.6 E-09	1.8 E-09	1.3 E-09	1.1 E-09
		F	0.100	4.6 E-08	0.050	3.2 E-08	1.5 E-08	1.0 E-08	6.4 E-09	5.3 E-09
Cd-115m	2.49 h	M	0.100	4.0 E-08	0.050	2.5 E-08	1.4 E-08	9.4 E-09	7.3 E-09	6.2 E-09
		S	0.100	3.9 E-08	0.050	3.0 E-08	1.7 E-08	1.1 E-08	8.9 E-09	7.7 E-09
		F	0.100	7.4 E-10	0.050	5.2 E-10	2.4 E-10	1.5 E-10	8.1 E-11	6.7 E-11
Cd-117		M	0.100	1.3 E-09	0.050	9.3 E-10	4.5 E-10	2.9 E-10	2.0 E-10	1.6 E-10
		S	0.100	1.4 E-09	0.050	9.8 E-10	4.8 E-10	3.1 E-10	2.1 E-10	1.7 E-10

Cd-117m	3.36 h	F	0.100	8.9 E-10	0.050	6.7 E-10	3.3 E-10	2.0 E-10	1.1 E-10	9.4 E-11
		M	0.100	1.5 E-09	0.050	1.1 E-09	5.5 E-10	3.6 E-10	2.4 E-10	2.0 E-10
		S	0.100	1.5 E-09	0.050	1.1 E-09	5.7 E-10	3.8 E-10	2.6 E-10	2.1 E-10
Indij										
In-109	4.20 h	F	0.040	2.6 E-10	0.020	2.1 E-10	1.0 E-10	6.3 E-11	3.6 E-11	2.9 E-11
		M	0.040	3.3 E-10	0.020	2.6 E-10	1.3 E-10	8.4 E-11	5.3 E-11	4.2 E-11
In-110	4.90 h	F	0.040	8.2 E-10	0.020	7.1 E-10	3.7 E-10	2.3 E-10	1.3 E-10	1.1 E-10
		M	0.040	9.9 E-10	0.020	8.3 E-10	4.4 E-10	2.7 E-10	1.6 E-10	1.3 E-10
In-110	1.15 h	F	0.040	3.0 E-10	0.020	2.1 E-10	9.9 E-11	6.0 E-11	3.5 E-11	2.8 E-11
		M	0.040	4.5 E-10	0.020	3.1 E-10	1.5 E-10	9.2 E-11	5.8 E-11	4.7 E-11
In-111	2.83 d	F	0.040	1.2 E-09	0.020	8.6 E-10	4.2 E-10	2.6 E-10	1.5 E-10	1.3 E-10
		M	0.040	1.5 E-09	0.020	1.2 E-09	6.2 E-10	4.1 E-10	2.9 E-10	2.3 E-10
In-112	0.240 h	F	0.040	4.4 E-11	0.020	3.0 E-11	1.3 E-11	8.7 E-12	5.4 E-12	4.7 E-12
		M	0.040	6.5 E-11	0.020	4.4 E-11	2.0 E-11	1.3 E-11	8.7 E-12	7.4 E-12
In-113m	1.66 h	F	0.040	1.0 E-10	0.020	7.0 E-11	3.2 E-11	2.0 E-11	1.2 E-11	9.7 E-12
		M	0.040	1.6 E-10	0.020	1.1 E-10	5.5 E-11	3.6 E-11	2.4 E-11	2.0 E-11
In-114m	49.5 d	F	0.040	1.2 E-07	0.020	7.7 E-08	3.4 E-08	1.9 E-08	1.1 E-08	9.3 E-09
		M	0.040	4.8 E-08	0.020	3.3 E-08	1.6 E-08	1.0 E-08	7.8 E-09	6.1 E-09
In-115	5.10 E+15a	F	0.040	8.3 E-07	0.020	7.8 E-07	5.5 E-07	5.0 E-07	4.2 E-07	3.9 E-07
		M	0.040	3.0 E-07	0.020	2.8 E-07	2.1 E-07	1.9 E-07	1.7 E-07	1.6 E-07
In-115m	4.49 h	F	0.040	2.8 E-10	0.020	1.9 E-10	8.4 E-11	5.1 E-11	2.8 E-11	2.4 E-11
		M	0.040	4.7 E-10	0.020	3.3 E-10	1.6 E-10	1.0 E-10	7.2 E-11	5.9 E-11
In-116m	0.902 h	F	0.040	2.5 E-10	0.020	1.9 E-10	9.2 E-11	5.7 E-11	3.4 E-11	2.8 E-11
		M	0.040	3.6 E-10	0.020	2.7 E-10	1.3 E-10	8.5 E-11	5.6 E-11	4.5 E-11
In-117	0.730 h	F	0.040	1.4 E-10	0.020	9.7 E-11	4.5 E-11	2.8 E-11	1.7 E-11	1.5 E-11
		M	0.040	2.3 E-10	0.020	1.6 E-10	7.5 E-11	5.0 E-11	3.5 E-11	2.9 E-11
In-117m	1.94 h	F	0.040	3.4 E-10	0.020	2.3 E-10	1.0 E-10	6.2 E-11	3.5 E-11	2.9 E-11
		M	0.040	6.0 E-10	0.020	4.0 E-10	1.9 E-10	1.3 E-10	8.7 E-11	7.2 E-11
In-119m	0.300 h	F	0.040	1.2 E-10	0.020	7.3 E-11	3.1 E-11	2.0 E-11	1.2 E-11	1.0 E-11
		M	0.040	1.8 E-10	0.020	1.1 E-10	4.9 E-11	3.2 E-11	2.0 E-11	1.7 E-11
Kositar										
Sn-110	4.00 h	F	0.040	1.0 E-09	0.020	7.6 E-10	3.6 E-10	2.2 E-10	1.2 E-10	9.9 E-11
		M	0.040	1.5 E-09	0.020	1.1 E-09	5.1 E-10	3.2 E-10	1.9 E-10	1.6 E-10
Sn-111	0.588 h	F	0.040	7.7 E-11	0.020	5.4 E-11	2.6 E-11	1.6 E-11	9.4 E-12	7.8 E-12
		M	0.040	1.1 E-10	0.020	8.0 E-11	3.8 E-11	2.5 E-11	1.6 E-11	1.3 E-11
Sn-113	115 d	F	0.040	5.1 E-09	0.020	3.7 E-09	1.8 E-09	1.1 E-09	6.4 E-10	5.4 E-10
		M	0.040	1.3 E-08	0.020	1.0 E-08	5.8 E-09	4.0 E-09	3.2 E-09	2.7 E-09
Sn-117m	13.6 d	F	0.040	3.3 E-09	0.020	2.2 E-09	1.0 E-09	6.1 E-10	3.4 E-10	2.8 E-10
		M	0.040	1.0 E-08	0.020	7.7 E-09	4.6 E-09	3.4 E-09	3.1 E-09	2.4 E-09
Sn-119m	293 d	F	0.040	3.0 E-09	0.020	2.2 E-09	1.0 E-09	6.0 E-10	3.4 E-10	2.8 E-10
		M	0.040	1.0 E-08	0.020	7.9 E-09	4.7 E-09	3.1 E-09	2.6 E-09	2.2 E-09
Sn-121	1.13 d	F	0.040	7.7 E-10	0.020	5.0 E-10	2.2 E-10	1.3 E-10	7.0 E-11	6.0 E-11
		M	0.040	1.5 E-09	0.020	1.1 E-09	5.1 E-10	3.6 E-10	2.9 E-10	2.3 E-10
Sn-121m	55.0 a	F	0.040	6.9 E-09	0.020	5.4 E-09	2.8 E-09	1.6 E-09	9.4 E-10	8.0 E-10
		M	0.040	1.9 E-08	0.020	1.5 E-08	9.2 E-09	6.4 E-09	5.5 E-09	4.5 E-09
Sn-123	129 d	F	0.040	1.4 E-08	0.020	9.9 E-09	4.5 E-09	2.6 E-09	1.4 E-09	1.2 E-09
		M	0.040	4.0 E-08	0.020	3.1 E-08	1.8 E-08	1.2 E-08	9.5 E-09	8.1 E-09
Sn-123m	0.668 h	F	0.040	1.4 E-10	0.020	8.9 E-11	3.9 E-11	2.5 E-11	1.5 E-11	1.3 E-11
		M	0.040	2.3 E-10	0.020	1.5 E-10	7.0 E-11	4.6 E-11	3.2 E-11	2.7 E-11
Sn-125	9.64 d	F	0.040	1.2 E-08	0.020	8.0 E-09	3.5 E-09	2.0 E-09	1.1 E-09	8.9 E-10

Sn-126	1.00 E+05g	M	0.040	2.1 E-08	0.020	1.5 E-08	7.6 E-09	5.0 E-09	3.6 E-09	3.1 E-09
		F	0.040	7.3 E-08	0.020	5.9 E-08	3.2 E-08	2.0 E-08	1.3 E-08	1.1 E-08
		M	0.040	1.2 E-07	0.020	1.0 E-07	6.2 E-08	4.1 E-08	3.3 E-08	2.8 E-08
Sn-127	2.10 h	F	0.040	6.6 E-10	0.020	4.7 E-10	2.3 E-10	1.4 E-10	7.9 E-11	6.5 E-11
		M	0.040	1.0 E-09	0.020	7.4 E-10	3.7 E-10	2.4 E-10	1.6 E-10	1.3 E-10
Sn-128	0.985 h	F	0.040	5.1 E-10	0.020	3.6 E-10	1.7 E-10	1.0 E-10	6.1 E-11	5.0 E-11
		M	0.040	8.0 E-10	0.020	5.5 E-10	2.7 E-10	1.7 E-10	1.1 E-10	9.2 E-11
Antimon										
Sb-115	0.530 h	F	0.200	8.1 E-11	0.100	5.9 E-11	2.8 E-11	1.7 E-11	1.0 E-11	8.5 E-12
		M	0.020	1.2 E-10	0.010	8.3 E-11	4.0 E-11	2.5 E-11	1.6 E-11	1.3 E-11
		S	0.020	1.2 E-10	0.010	8.6 E-11	4.1 E-11	2.6 E-11	1.7 E-11	1.4 E-11
Sb-116	0.263 h	F	0.200	8.4 E-11	0.100	6.2 E-11	3.0 E-11	1.9 E-11	1.1 E-11	9.1 E-12
		M	0.020	1.1 E-10	0.010	8.2 E-11	4.0 E-11	2.5 E-11	1.5 E-11	1.3 E-11
		S	0.020	1.2 E-10	0.010	8.5 E-11	4.1 E-11	2.6 E-11	1.6 E-11	1.3 E-11
Sb-116m	1.00 h	F	0.200	2.6 E-10	0.100	2.1 E-10	1.1 E-10	6.6 E-11	4.0 E-11	3.2 E-11
		M	0.020	3.6 E-10	0.010	2.8 E-10	1.5 E-10	9.1 E-11	5.9 E-11	4.7 E-11
		S	0.020	3.7 E-10	0.010	2.9 E-10	1.5 E-10	9.4 E-11	6.1 E-11	4.9 E-11
Sb-117	2.80 h	F	0.200	7.7 E-11	0.100	6.0 E-11	2.9 E-11	1.8 E-11	1.0 E-11	8.5 E-12
		M	0.020	1.2 E-10	0.010	9.1 E-11	4.6 E-11	3.0 E-11	2.0 E-11	1.6 E-11
		S	0.020	1.3 E-10	0.010	9.5 E-11	4.8 E-11	3.1 E-11	2.2 E-11	1.7 E-11
Sb-118m	5.00 h	F	0.200	7.3 E-10	0.100	6.2 E-10	3.3 E-10	2.0 E-10	1.2 E-10	9.3 E-11
		M	0.020	9.3 E-10	0.010	7.6 E-10	4.0 E-10	2.5 E-10	1.5 E-10	1.2 E-10
		S	0.020	9.5 E-10	0.010	7.8 E-10	4.1 E-10	2.5 E-10	1.5 E-10	1.2 E-10
Sb-119	1.59 d	F	0.200	2.7 E-10	0.100	2.0 E-10	9.4 E-11	5.5 E-11	2.9 E-11	2.3 E-11
		M	0.020	4.0 E-10	0.010	2.8 E-10	1.3 E-10	7.9 E-11	4.4 E-11	3.5 E-11
		S	0.020	4.1 E-10	0.010	2.9 E-10	1.4 E-10	8.2 E-11	4.5 E-11	3.6 E-11
Sb-120	5.76 d	F	0.200	4.1 E-09	0.100	3.3 E-09	1.8 E-09	1.1 E-09	6.7 E-10	5.5 E-10
		M	0.020	6.3 E-09	0.010	5.0 E-09	2.8 E-09	1.8 E-09	1.3 E-09	1.0 E-09
		S	0.020	6.6 E-09	0.010	5.3 E-09	2.9 E-09	1.9 E-09	1.4 E-09	1.1 E-09
Sb-120	0.265 h	F	0.200	4.6 E-11	0.100	3.1 E-11	1.4 E-11	8.9 E-12	5.4 E-12	4.6 E-12
		M	0.020	6.6 E-11	0.010	4.4 E-11	2.0 E-11	1.3 E-11	8.3 E-12	7.0 E-12
		S	0.020	6.8 E-11	0.010	4.6 E-11	2.1 E-11	1.4 E-11	8.7 E-12	7.3 E-12
Sb-122	2.70 d	F	0.200	4.2 E-09	0.100	2.8 E-09	1.4 E-09	8.4 E-10	4.4 E-10	3.6 E-10
		M	0.020	8.3 E-09	0.010	5.7 E-09	2.8 E-09	1.8 E-09	1.3 E-09	1.0 E-09
		S	0.020	8.8 E-09	0.010	6.1 E-09	3.0 E-09	2.0 E-09	1.4 E-09	1.1 E-09
Sb-124	60.2 d	F	0.200	1.2 E-08	0.100	8.8 E-09	4.3 E-09	2.6 E-09	1.6 E-09	1.3 E-09
		M	0.020	3.1 E-08	0.010	2.4 E-08	1.4 E-08	9.6 E-09	7.7 E-09	6.4 E-09
		S	0.020	3.9 E-08	0.010	3.1 E-08	1.8 E-08	1.3 E-08	1.0 E-08	8.6 E-09
Sb-124m	0.337 h	F	0.200	2.7 E-11	0.100	1.9 E-11	9.0 E-12	5.6 E-12	3.4 E-12	2.8 E-12
		M	0.020	4.3 E-11	0.010	3.1 E-11	1.5 E-11	9.6 E-12	6.5 E-12	5.4 E-12
		S	0.020	4.6 E-11	0.010	3.3 E-11	1.6 E-11	1.0 E-11	7.2 E-12	5.9 E-12
Sb-125	2.77 g	F	0.200	8.7 E-09	0.100	6.8 E-09	3.7 E-09	2.3 E-09	1.5 E-09	1.4 E-09
		M	0.020	2.0 E-08	0.010	1.6 E-08	1.0 E-08	6.8 E-09	5.8 E-09	4.8 E-09
		S	0.020	4.2 E-08	0.010	3.8 E-08	2.4 E-08	1.6 E-08	1.4 E-08	1.2 E-08
Sb-126	12.4 d	F	0.200	8.8 E-09	0.100	6.6 E-09	3.3 E-09	2.1 E-09	1.2 E-09	1.0 E-09
		M	0.020	1.7 E-08	0.010	1.3 E-08	7.4 E-09	5.1 E-09	3.5 E-09	2.8 E-09
		S	0.020	1.9 E-08	0.010	1.5 E-08	8.2 E-09	5.0 E-09	4.0 E-09	3.2 E-09
Sb-126m	0.317 h	F	0.200	1.2 E-10	0.100	8.2 E-11	3.8 E-11	2.4 E-11	1.5 E-11	1.2 E-11
		M	0.020	1.7 E-10	0.010	1.2 E-10	5.5 E-11	3.5 E-11	2.3 E-11	1.9 E-11
		S	0.020	1.8 E-10	0.010	1.2 E-10	5.7 E-11	3.7 E-11	2.4 E-11	2.0 E-11
Sb-127	3.85 d	F	0.200	5.1 E-09	0.100	3.5 E-09	1.6 E-09	9.7 E-10	5.2 E-10	4.3 E-10

Sb-128	9.01 h	M	0.020	1.0 E-08	0.010	7.3 E-09	3.9 E-09	2.7 E-09	2.1 E-09	1.7 E-09
		S	0.020	1.1 E-08	0.010	7.9 E-09	4.2 E-09	3.0 E-09	2.3 E-09	1.9 E-09
		F	0.200	2.1 E-09	0.100	1.7 E-09	8.3 E-10	5.1 E-10	2.9 E-10	2.3 E-10
Sb-128	0.173 h	M	0.020	3.3 E-09	0.010	2.5 E-09	1.2 E-09	7.9 E-10	5.0 E-10	4.0 E-10
		S	0.020	3.4 E-09	0.010	2.6 E-09	1.3 E-09	8.3 E-10	5.2 E-10	4.2 E-10
		F	0.200	9.8 E-11	0.100	6.9 E-11	3.2 E-11	2.0 E-11	1.2 E-11	1.0 E-11
Sb-129	4.32 h	M	0.020	1.3 E-10	0.010	9.2 E-11	4.3 E-11	2.7 E-11	1.7 E-11	1.4 E-11
		S	0.020	1.4 E-10	0.010	9.4 E-11	4.4 E-11	2.8 E-11	1.8 E-11	1.5 E-11
		F	0.200	1.1 E-09	0.100	8.2 E-10	3.8 E-10	2.3 E-10	1.3 E-10	1.0 E-10
Sb-130	0.667 h	M	0.020	2.0 E-09	0.010	1.4 E-09	6.8 E-10	4.4 E-10	2.9 E-10	2.3 E-10
		S	0.020	2.1 E-09	0.010	1.5 E-09	7.2 E-10	4.6 E-10	3.0 E-10	2.5 E-10
		F	0.200	3.0 E-10	0.100	2.2 E-10	1.1 E-10	6.6 E-11	4.0 E-11	3.3 E-11
Sb-131	0.383 h	M	0.020	4.5 E-10	0.010	3.2 E-10	1.6 E-10	9.8 E-11	6.3 E-11	5.1 E-11
		S	0.020	4.6 E-10	0.010	3.3 E-10	1.6 E-10	1.0 E-10	6.5 E-11	5.3 E-11
		F	0.200	3.5 E-10	0.100	2.8 E-10	1.4 E-10	7.7 E-11	4.6 E-11	3.5 E-11
Telur	2.49 h	M	0.020	3.9 E-10	0.010	2.6 E-10	1.3 E-10	8.0 E-11	5.3 E-11	4.4 E-11
		S	0.020	3.8 E-10	0.010	2.6 E-10	1.2 E-10	7.9 E-11	5.3 E-11	4.4 E-11
		F	0.600	5.3 E-10	0.300	4.2 E-10	2.1 E-10	1.3 E-10	7.2 E-11	5.8 E-11
Te-116	17.0 d	M	0.200	8.6 E-10	0.100	6.4 E-10	3.2 E-10	2.0 E-10	1.3 E-10	1.0 E-10
		S	0.020	9.1 E-10	0.010	6.7 E-10	3.3 E-10	2.1 E-10	1.4 E-10	1.1 E-10
		F	0.600	1.7 E-09	0.300	1.4 E-09	7.2 E-10	4.6 E-10	2.9 E-10	2.4 E-10
Te-121	154 d	M	0.200	2.3 E-09	0.100	1.9 E-09	1.0 E-09	6.8 E-10	4.7 E-10	3.8 E-10
		S	0.020	2.4 E-09	0.010	2.0 E-09	1.1 E-09	7.2 E-10	5.1 E-10	4.1 E-10
		F	0.600	1.4 E-08	0.300	1.0 E-08	5.3 E-09	3.3 E-09	2.1 E-09	1.8 E-09
Te-121m	1.00 E+13a	M	0.200	1.9 E-08	0.100	1.5 E-08	8.8 E-09	6.1 E-09	5.1 E-09	4.2 E-09
		S	0.020	2.3 E-08	0.010	1.9 E-08	1.2 E-08	8.1 E-09	6.9 E-09	5.7 E-09
		F	0.600	1.1 E-08	0.300	9.1 E-09	6.2 E-09	4.8 E-09	4.0 E-09	3.9 E-09
Te-123	120 d	M	0.200	5.6 E-09	0.100	4.4 E-09	3.0 E-09	2.3 E-09	2.0 E-09	1.9 E-09
		S	0.020	5.3 E-09	0.010	5.0 E-09	3.5 E-09	2.4 E-09	2.1 E-09	2.0 E-09
		F	0.600	9.8 E-09	0.300	6.8 E-09	3.4 E-09	1.9 E-09	1.1 E-09	9.5 E-10
Te-123m	58.0 d	M	0.200	1.8 E-08	0.100	1.3 E-08	8.0 E-09	5.7 E-09	5.0 E-09	4.0 E-09
		S	0.020	2.0 E-08	0.010	1.6 E-08	9.8 E-09	7.1 E-09	6.3 E-09	5.1 E-09
		F	0.600	6.2 E-09	0.300	4.2 E-09	2.0 E-09	1.1 E-09	6.1 E-10	5.1 E-10
Te-125m	9.35 h	M	0.200	1.5 E-08	0.100	1.1 E-08	6.6 E-09	4.8 E-09	4.3 E-09	3.4 E-09
		S	0.020	1.7 E-08	0.010	1.3 E-08	7.8 E-09	5.8 E-09	5.3 E-09	4.2 E-09
		F	0.600	4.3 E-10	0.300	3.2 E-10	1.4 E-10	8.5 E-11	4.5 E-11	3.9 E-11
Te-127	109 d	M	0.200	1.0 E-09	0.100	7.3 E-10	3.6 E-10	2.4 E-10	1.6 E-10	1.3 E-10
		S	0.020	1.2 E-09	0.010	7.9 E-10	3.9 E-10	2.6 E-10	1.7 E-10	1.4 E-10
		F	0.600	2.1 E-08	0.300	1.4 E-08	6.5 E-09	3.5 E-09	2.0 E-09	1.5 E-09
Te-127m	1.16 h	M	0.200	3.5 E-08	0.100	2.6 E-08	1.5 E-08	1.1 E-08	9.2 E-09	7.4 E-09
		S	0.020	4.1 E-08	0.010	3.3 E-08	2.0 E-08	1.4 E-08	1.2 E-08	9.8 E-09
		F	0.600	1.8 E-10	0.300	1.2 E-10	5.1 E-11	3.2 E-11	1.9 E-11	1.6 E-11
Te-129	33.6 d	M	0.200	3.3 E-10	0.100	2.2 E-10	9.9 E-11	6.5 E-11	4.4 E-11	3.7 E-11
		S	0.020	3.5 E-10	0.010	2.3 E-10	1.0 E-10	6.9 E-11	4.7 E-11	3.9 E-11
		F	0.600	2.0 E-08	0.300	1.3 E-08	5.8 E-09	3.1 E-09	1.7 E-09	1.3 E-09
Te-129m	0.417 h	M	0.200	3.5 E-08	0.100	2.6 E-08	1.4 E-08	9.8 E-09	8.0 E-09	6.6 E-09
		S	0.020	3.8 E-08	0.010	2.9 E-08	1.7 E-08	1.2 E-08	9.6 E-09	7.9 E-09
		F	0.600	2.3 E-10	0.300	2.0 E-10	9.9 E-11	5.3 E-11	3.3 E-11	2.3 E-11
Te-131		M	0.200	2.6 E-10	0.100	1.7 E-10	8.1 E-11	5.2 E-11	3.5 E-11	2.8 E-11
		S	0.020	2.4 E-10	0.010	1.6 E-10	7.4 E-11	4.9 E-11	3.3 E-11	2.8 E-11
		F	0.600	2.3 E-10	0.300	2.0 E-10	9.9 E-11	5.3 E-11	3.3 E-11	2.3 E-11

Te-131m	1.25 d	F	0.600	8.7 E-09	0.300	7.6 E-09	3.9 E-09	2.0 E-09	1.2 E-09	8.6 E-10
		M	0.200	7.9 E-09	0.100	5.8 E-09	3.0 E-09	1.9 E-09	1.2 E-09	9.4 E-10
		S	0.020	7.0 E-09	0.010	5.1 E-09	2.6 E-09	1.8 E-09	1.1 E-09	9.1 E-10
Te-132	3.26 d	F	0.600	2.2 E-08	0.300	1.8 E-08	8.5 E-09	4.2 E-09	2.6 E-09	1.8 E-09
		M	0.200	1.6 E-08	0.100	1.3 E-08	6.4 E-09	4.0 E-09	2.6 E-09	2.0 E-09
		S	0.020	1.5 E-08	0.010	1.1 E-08	5.8 E-09	3.8 E-09	2.5 E-09	2.0 E-09
Te-133	0.207 h	F	0.600	2.4 E-10	0.300	2.1 E-10	9.6 E-11	4.6 E-11	2.8 E-11	1.9 E-11
		M	0.200	2.0 E-10	0.100	1.3 E-10	6.1 E-11	3.8 E-11	2.4 E-11	2.0 E-11
		S	0.020	1.7 E-10	0.010	1.2 E-10	5.4 E-11	3.5 E-11	2.2 E-11	1.9 E-11
Te-133m	0.923 h	F	0.600	1.0 E-09	0.300	8.9 E-10	4.1 E-10	2.0 E-10	1.2 E-10	8.1 E-11
		M	0.200	8.5 E-10	0.100	5.8 E-10	2.8 E-10	1.7 E-10	1.1 E-10	8.7 E-11
		S	0.020	7.4 E-10	0.010	5.1 E-10	2.5 E-10	1.6 E-10	1.0 E-10	8.4 E-11
Te-134	0.696 h	F	0.600	4.7 E-10	0.300	3.7 E-10	1.8 E-10	1.0 E-10	6.0 E-11	4.7 E-11
		M	0.200	5.5 E-10	0.100	3.9 E-10	1.9 E-10	1.2 E-10	8.1 E-11	6.6 E-11
		S	0.020	5.6 E-10	0.010	4.0 E-10	1.9 E-10	1.3 E-10	8.4 E-11	6.8 E-11
Jod										
I-120	1.35 h	F	1.000	1.3 E-09	1.000	1.0 E-09	4.8 E-10	2.3 E-10	1.4 E-10	1.0 E-10
		M	0.200	1.1 E-09	0.100	7.3 E-10	3.4 E-10	2.1 E-10	1.3 E-10	1.0 E-10
		S	0.020	1.0 E-09	0.010	6.9 E-10	3.2 E-10	2.0 E-10	1.2 E-10	1.0 E-10
I-120m	0.883 h	F	1.000	8.6 E-10	1.000	6.9 E-10	3.3 E-10	1.8 E-10	1.1 E-10	8.2 E-11
		M	0.200	8.2 E-10	0.100	5.9 E-10	2.9 E-10	1.8 E-10	1.1 E-10	8.7 E-11
		S	0.020	8.2 E-10	0.010	5.8 E-10	2.8 E-10	1.8 E-10	1.1 E-10	8.8 E-11
I-121	2.12 h	F	1.000	2.3 E-10	1.000	2.1 E-10	1.1 E-10	6.0 E-11	3.8 E-11	2.7 E-11
		M	0.200	2.1 E-10	0.100	1.5 E-10	7.8 E-11	4.9 E-11	3.2 E-11	2.5 E-11
		S	0.020	1.9 E-10	0.010	1.4 E-10	7.0 E-11	4.5 E-11	3.0 E-11	2.4 E-11
I-123	13.2 h	F	1.000	8.7 E-10	1.000	7.9 E-10	3.8 E-10	1.8 E-10	1.1 E-10	7.4 E-11
		M	0.200	5.3 E-10	0.100	3.9 E-10	2.0 E-10	1.2 E-10	8.2 E-11	6.4 E-11
		S	0.020	4.3 E-10	0.010	3.2 E-10	1.7 E-10	1.1 E-10	7.6 E-11	6.0 E-11
I-124	4.18 d	F	1.000	4.7 E-08	1.000	4.5 E-08	2.2 E-08	1.1 E-08	6.7 E-09	4.4 E-09
		M	0.200	1.4 E-08	0.100	9.3 E-09	4.6 E-09	2.5 E-09	1.6 E-09	1.2 E-09
		S	0.020	6.2 E-09	0.010	4.4 E-09	2.2 E-09	1.4 E-09	9.4 E-10	7.7 E-10
I-125	60.1 d	F	1.000	2.0 E-08	1.000	2.3 E-08	1.5 E-08	1.1 E-08	7.2 E-09	5.1 E-09
		M	0.200	6.9 E-09	0.100	5.6 E-09	3.6 E-09	2.6 E-09	1.8 E-09	1.4 E-09
		S	0.020	2.4 E-09	0.010	1.8 E-09	1.0 E-09	6.7 E-10	4.8 E-10	3.8 E-10
I-126	13.0 d	F	1.000	8.1 E-08	1.000	8.3 E-08	4.5 E-08	2.4 E-08	1.5 E-08	9.8 E-09
		M	0.200	2.4 E-08	0.100	1.7 E-08	9.5 E-09	5.5 E-09	3.8 E-09	2.7 E-09
		S	0.020	8.3 E-09	0.010	5.9 E-09	3.3 E-09	2.2 E-09	1.8 E-09	1.4 E-09
I-128	0.416 h	F	1.000	1.5 E-10	1.000	1.1 E-10	4.7 E-11	2.7 E-11	1.6 E-11	1.3 E-11
		M	0.200	1.9 E-10	0.100	1.2 E-10	5.3 E-11	3.4 E-11	2.2 E-11	1.9 E-11
		S	0.020	1.9 E-10	0.010	1.2 E-10	5.4 E-11	3.5 E-11	2.3 E-11	2.0 E-11
I-129	1.57 E+07a	F	1.000	7.2 E-08	1.000	8.6 E-08	6.1 E-08	6.7 E-08	4.6 E-08	3.6 E-08
		M	0.200	3.6 E-08	0.100	3.3 E-08	2.4 E-08	2.4 E-08	1.9 E-08	1.5 E-08
		S	0.020	2.9 E-08	0.010	2.6 E-08	1.8 E-08	1.3 E-08	1.1 E-08	9.8 E-09
I-130	12.4 h	F	1.000	8.2 E-09	1.000	7.4 E-09	3.5 E-09	1.6 E-09	1.0 E-09	6.7 E-10
		M	0.200	4.3 E-09	0.100	3.1 E-09	1.5 E-09	9.2 E-10	5.8 E-10	4.5 E-10
		S	0.020	3.3 E-09	0.010	2.4 E-09	1.2 E-09	7.9 E-10	5.1 E-10	4.1 E-10
I-131	8.04 d	F	1.000	7.2 E-08	1.000	7.2 E-08	3.7 E-08	1.9 E-08	1.1 E-08	7.4 E-09
		M	0.200	2.2 E-08	0.100	1.5 E-08	8.2 E-09	4.7 E-09	3.4 E-09	2.4 E-09
		S	0.020	8.8 E-09	0.010	6.2 E-09	3.5 E-09	2.4 E-09	2.0 E-09	1.6 E-09
I-132	2.30 h	F	1.000	1.1 E-09	1.000	9.6 E-10	4.5 E-10	2.2 E-10	1.3 E-10	9.4 E-11
		M	0.200	9.9 E-10	0.100	7.3 E-10	3.6 E-10	2.2 E-10	1.4 E-10	1.1 E-10

I-132m	1.39 h	S	0.020	9.3 E-10	0.010	6.8 E-10	3.4 E-10	2.1 E-10	1.4 E-10	1.1 E-10	
		F	1.000	9.6 E-10	1.000	8.4 E-10	4.0 E-10	1.9 E-10	1.2 E-10	7.9 E-11	
		M	0.200	7.2 E-10	0.100	5.3 E-10	2.6 E-10	1.6 E-10	1.1 E-10	8.7 E-11	
I-133	20.8 h	S	0.020	6.6 E-10	0.010	4.8 E-10	2.4 E-10	1.6 E-10	1.1 E-10	8.5 E-11	
		F	1.000	1.9 E-08	1.000	1.8 E-08	8.3 E-09	3.8 E-09	2.2 E-09	1.5 E-09	
		M	0.200	6.6 E-09	0.100	4.4 E-09	2.1 E-09	1.2 E-09	7.4 E-10	5.5 E-10	
I-134	0.876 h	S	0.020	3.8 E-09	0.010	2.9 E-09	1.4 E-09	9.0 E-10	5.3 E-10	4.3 E-10	
		F	1.000	4.6 E-10	1.000	3.7 E-10	1.8 E-10	9.7 E-11	5.9 E-11	4.5 E-11	
		M	0.200	4.8 E-10	0.100	3.4 E-10	1.7 E-10	1.0 E-10	6.7 E-11	5.4 E-11	
I-135	6.61 h	S	0.020	4.8 E-10	0.010	3.4 E-10	1.7 E-10	1.1 E-10	6.8 E-11	5.5 E-11	
		F	1.000	4.1 E-09	1.000	3.7 E-09	1.7 E-09	7.9 E-10	4.8 E-10	3.2 E-10	
		M	0.200	2.2 E-09	0.100	1.6 E-09	7.8 E-10	4.7 E-10	3.0 E-10	2.4 E-10	
		S	0.020	1.8 E-09	0.010	1.3 E-09	6.5 E-10	4.2 E-10	2.7 E-10	2.2 E-10	
		Cezij									
Cs-125	0.750 h	F	1.000	1.2 E-10	1.000	8.3 E-11	3.9 E-11	2.4 E-11	1.4 E-11	1.2 E-11	
		M	0.200	2.0 E-10	0.100	1.4 E-10	6.5 E-11	4.2 E-11	2.7 E-11	2.2 E-11	
		S	0.020	2.1 E-10	0.010	1.4 E-10	6.8 E-11	4.4 E-11	2.8 E-11	2.3 E-11	
Cs-127	6.25 h	F	1.000	1.6 E-10	1.000	1.3 E-10	6.9 E-11	4.2 E-11	2.5 E-11	2.0 E-11	
		M	0.200	2.8 E-10	0.100	2.2 E-10	1.1 E-10	7.3 E-11	4.6 E-11	3.6 E-11	
		S	0.020	3.0 E-10	0.010	2.3 E-10	1.2 E-10	7.6 E-11	4.8 E-11	3.8 E-11	
Cs-129	1.34 d	F	1.000	3.4 E-10	1.000	2.8 E-10	1.4 E-10	8.7 E-11	5.2 E-11	4.2 E-11	
		M	0.200	5.7 E-10	0.100	4.6 E-10	2.4 E-10	1.5 E-10	9.1 E-11	7.3 E-11	
		S	0.020	6.3 E-10	0.010	4.9 E-10	2.5 E-10	1.6 E-10	9.7 E-11	7.7 E-11	
Cs-130	0.498 h	F	1.000	8.3 E-11	1.000	5.6 E-11	2.5 E-11	1.6 E-11	9.4 E-12	7.8 E-12	
		M	0.200	1.3 E-10	0.100	8.7 E-11	4.0 E-11	2.5 E-11	1.6 E-11	1.4 E-11	
		S	0.020	1.4 E-10	0.010	9.0 E-11	4.1 E-11	2.6 E-11	1.7 E-11	1.4 E-11	
Cs-131	9.69 d	F	1.000	2.4 E-10	1.000	1.7 E-10	8.4 E-11	5.3 E-11	3.2 E-11	2.7 E-11	
		M	0.200	3.5 E-10	0.100	2.6 E-10	1.4 E-10	8.5 E-11	5.5 E-11	4.4 E-11	
		S	0.020	3.8 E-10	0.010	2.8 E-10	1.4 E-10	9.1 E-11	5.9 E-11	4.7 E-11	
Cs-132	6.48 d	F	1.000	1.5 E-09	1.000	1.2 E-09	6.4 E-10	4.1 E-10	2.7 E-10	2.3 E-10	
		M	0.200	1.9 E-09	0.100	1.5 E-09	8.4 E-10	5.4 E-10	3.7 E-10	2.9 E-10	
		S	0.020	2.0 E-09	0.010	1.6 E-09	8.7 E-10	5.6 E-10	3.8 E-10	3.0 E-10	
Cs-134	2.06 a	F	1.000	1.1 E-08	1.000	7.3 E-09	5.2 E-09	5.3 E-09	6.3 E-09	6.6 E-09	
		M	0.200	3.2 E-08	0.100	2.6 E-08	1.6 E-08	1.2 E-08	1.1 E-08	9.1 E-09	
		S	0.020	7.0 E-08	0.010	6.3 E-08	4.1 E-08	2.8 E-08	2.3 E-08	2.0 E-08	
Cs-134m	2.90 h	F	1.000	1.3 E-10	1.000	8.6 E-11	3.8 E-11	2.5 E-11	1.6 E-11	1.4 E-11	
		M	0.200	3.3 E-10	0.100	2.3 E-10	1.2 E-10	8.3 E-11	6.6 E-11	5.4 E-11	
		S	0.020	3.6 E-10	0.010	2.5 E-10	1.3 E-10	9.2 E-11	7.4 E-11	6.0 E-11	
Cs-135	2.30 E+06a	F	1.000	1.7 E-09	1.000	9.9 E-10	6.2 E-10	6.1 E-10	6.8 E-10	6.9 E-10	
		M	0.200	1.2 E-08	0.100	9.3 E-09	5.7 E-09	4.1 E-09	3.8 E-09	3.1 E-09	
		S	0.020	2.7 E-08	0.010	2.4 E-08	1.6 E-08	1.1 E-08	9.5 E-09	8.6 E-09	
Cs-135m	0.883 h	F	1.000	9.2 E-11	1.000	7.8 E-11	4.1 E-11	2.4 E-11	1.5 E-11	1.2 E-11	
		M	0.200	1.2 E-10	0.100	9.9 E-11	5.2 E-11	3.2 E-11	1.9 E-11	1.5 E-11	
		S	0.020	1.2 E-10	0.010	1.0 E-10	5.3 E-11	3.3 E-11	2.0 E-11	1.6 E-11	
Cs-136	13.1 d	F	1.000	7.3 E-09	1.000	5.2 E-09	2.9 E-09	2.0 E-09	1.4 E-09	1.2 E-09	
		M	0.200	1.3 E-08	0.100	1.0 E-08	6.0 E-09	3.7 E-09	3.1 E-09	2.5 E-09	
		S	0.020	1.5 E-08	0.010	1.1 E-08	5.7 E-09	4.1 E-09	3.5 E-09	2.8 E-09	
Cs-137	30.0 a	F	1.000	8.8 E-09	1.000	5.4 E-09	3.6 E-09	3.7 E-09	4.4 E-09	4.6 E-09	
		M	0.200	3.6 E-08	0.100	2.9 E-08	1.8 E-08	1.3 E-08	1.1 E-08	9.7 E-09	
		S	0.020	1.1 E-07	0.010	1.0 E-07	7.0 E-08	4.8 E-08	4.2 E-08	3.9 E-08	
Cs-138	0.536 h	F	1.000	2.6 E-10	1.000	1.8 E-10	8.1 E-11	5.0 E-11	2.9 E-11	2.4 E-11	

		M	0.200	4.0 E-10	0.100	2.7 E-10	1.3 E-10	7.8 E-11	4.9 E-11	4.1 E-11
		S	0.020	4.2 E-10	0.010	2.8 E-10	1.3 E-10	8.2 E-11	5.1 E-11	4.3 E-11
Barij										
Ba-126	1.61 h	F	0.600	6.7 E-10	0.200	5.2 E-10	2.4 E-10	1.4 E-10	6.9 E-11	7.4 E-11
		M	0.200	1.0 E-09	0.100	7.0 E-10	3.2 E-10	2.0 E-10	1.2 E-10	1.0 E-10
		S	0.020	1.1 E-09	0.010	7.2 E-10	3.3 E-10	2.1 E-10	1.3 E-10	1.1 E-10
Ba-128	2.43 d	F	0.600	5.9 E-09	0.200	5.4 E-09	2.5 E-09	1.4 E-09	7.4 E-10	7.6 E-10
		M	0.200	1.1 E-08	0.100	7.8 E-09	3.7 E-09	2.4 E-09	1.5 E-09	1.3 E-09
		S	0.020	1.2 E-08	0.010	8.3 E-09	4.0 E-09	2.6 E-09	1.6 E-09	1.4 E-09
Ba-131	11.8 d	F	0.600	2.1 E-09	0.200	1.4 E-09	7.1 E-10	4.7 E-10	3.1 E-10	2.2 E-10
		M	0.200	3.7 E-09	0.100	3.1 E-09	1.6 E-09	1.1 E-09	9.7 E-10	7.6 E-10
		S	0.020	4.0 E-09	0.010	3.0 E-09	1.8 E-09	1.3 E-09	1.1 E-09	8.7 E-10
Ba-131m	0.243 h	F	0.600	2.7 E-11	0.200	2.1 E-11	1.0 E-11	6.7 E-12	4.7 E-12	4.0 E-12
		M	0.200	4.8 E-11	0.100	3.3 E-11	1.7 E-11	1.2 E-11	9.0 E-12	7.4 E-12
		S	0.020	5.0 E-11	0.010	3.5 E-11	1.8 E-11	1.2 E-11	9.5 E-12	7.8 E-12
Ba-133	10.7 a	F	0.600	1.1 E-08	0.200	4.5 E-09	2.6 E-09	3.7 E-09	6.0 E-09	1.5 E-09
		M	0.200	1.5 E-08	0.100	1.0 E-08	6.4 E-09	5.1 E-09	5.5 E-09	3.1 E-09
		S	0.020	3.2 E-08	0.010	2.9 E-08	2.0 E-08	1.3 E-08	1.1 E-08	1.0 E-08
Ba-133m	1.62 d	F	0.600	1.4 E-09	0.200	1.1 E-09	4.9 E-10	3.1 E-10	1.5 E-10	1.8 E-10
		M	0.200	3.0 E-09	0.100	2.2 E-09	1.0 E-09	6.9 E-10	5.2 E-10	4.2 E-10
		S	0.020	3.1 E-09	0.010	2.4 E-09	1.1 E-09	7.6 E-10	5.8 E-10	4.6 E-10
Ba-135m	1.20 d	F	0.600	1.1 E-09	0.200	1.0 E-09	4.6 E-10	2.5 E-10	1.2 E-10	1.4 E-10
		M	0.200	2.4 E-09	0.100	1.8 E-09	8.9 E-10	5.4 E-10	4.1 E-10	3.3 E-10
		S	0.020	2.7 E-09	0.010	1.9 E-09	8.6 E-10	5.9 E-10	4.5 E-10	3.6 E-10
Ba-139	1.38 h	F	0.600	3.3 E-10	0.200	2.4 E-10	1.1 E-10	6.0 E-11	3.1 E-11	3.4 E-11
		M	0.200	5.4 E-10	0.100	3.5 E-10	1.6 E-10	1.0 E-10	6.6 E-11	5.6 E-11
		S	0.020	5.7 E-10	0.010	3.6 E-10	1.6 E-10	1.1 E-10	7.0 E-11	5.9 E-11
Ba-140	12.7 d	F	0.600	1.4 E-08	0.200	7.8 E-09	3.6 E-09	2.4 E-09	1.6 E-09	1.0 E-09
		M	0.200	2.7 E-08	0.100	2.0 E-08	1.1 E-08	7.6 E-09	6.2 E-09	5.1 E-09
		S	0.020	2.9 E-08	0.010	2.2 E-08	1.2 E-08	8.6 E-09	7.1 E-09	5.8 E-09
Ba-141	0.305 h	F	0.600	1.9 E-10	0.200	1.4 E-10	6.4 E-11	3.8 E-11	2.1 E-11	2.1 E-11
		M	0.200	3.0 E-10	0.100	2.0 E-10	9.3 E-11	5.9 E-11	3.8 E-11	3.2 E-11
		S	0.020	3.2 E-10	0.010	2.1 E-10	9.7 E-11	6.2 E-11	4.0 E-11	3.4 E-11
Ba-142	0.177 h	F	0.600	1.3 E-10	0.200	9.6 E-11	4.5 E-11	2.7 E-11	1.6 E-11	1.5 E-11
		M	0.200	1.8 E-10	0.100	1.3 E-10	6.1 E-11	3.9 E-11	2.5 E-11	2.1 E-11
		S	0.020	1.9 E-10	0.010	1.3 E-10	6.2 E-11	4.0 E-11	2.6 E-11	2.2 E-11
Lantan										
La-131	0.983 h	F	0.005	1.2 E-10	5.0 E-04	8.7 E-11	4.2 E-11	2.6 E-11	1.5 E-11	1.3 E-11
		M	0.005	1.8 E-10	5.0 E-04	1.3 E-10	6.4 E-11	4.1 E-11	2.8 E-11	2.3 E-11
La-132	4.80 h	F	0.005	1.0 E-09	5.0 E-04	7.7 E-10	3.7 E-10	2.2 E-10	1.2 E-10	1.0 E-10
		M	0.005	1.5 E-09	5.0 E-04	1.1 E-09	5.4 E-10	3.4 E-10	2.0 E-10	1.6 E-10
La-135	19.5 h	F	0.005	1.0 E-10	5.0 E-04	7.7 E-11	3.8 E-11	2.3 E-11	1.3 E-11	1.0 E-11
		M	0.005	1.3 E-10	5.0 E-04	1.0 E-10	4.9 E-11	3.0 E-11	1.7 E-11	1.4 E-11
La-137	6.00 E+04a	F	0.005	2.5 E-08	5.0 E-04	2.3 E-08	1.5 E-08	1.1 E-08	8.9 E-09	8.7 E-09
		M	0.005	8.6 E-09	5.0 E-04	8.1 E-09	5.6 E-09	4.0 E-09	3.6 E-09	3.6 E-09
La-138	1.35 E+11a	F	0.005	3.7 E-07	5.0 E-04	3.5 E-07	2.4 E-07	1.8 E-07	1.6 E-07	1.5 E-07
		M	0.005	1.3 E-07	5.0 E-04	1.2 E-07	9.1 E-08	6.8 E-08	6.4 E-08	6.4 E-08
La-140	1.68 d	F	0.005	5.8 E-09	5.0 E-04	4.2 E-09	2.0 E-09	1.2 E-09	6.9 E-10	5.7 E-10
		M	0.005	8.8 E-09	5.0 E-04	6.3 E-09	3.1 E-09	2.0 E-09	1.3 E-09	1.1 E-09
La-141	3.93 h	F	0.005	8.6 E-10	5.0 E-04	5.5 E-10	2.3 E-10	1.4 E-10	7.5 E-11	6.3 E-11

La-142	1.54 h	M	0.005	1.4 E-09	5.0 E-04	9.3 E-10	4.3 E-10	2.8 E-10	1.8 E-10	1.5 E-10
		F	0.005	5.3 E-10	5.0 E-04	3.8 E-10	1.8 E-10	1.1 E-10	6.3 E-11	5.2 E-11
		M	0.005	8.1 E-10	5.0 E-04	5.7 E-10	2.7 E-10	1.7 E-10	1.1 E-10	8.9 E-11
La-143	0.237 h	F	0.005	1.4 E-10	5.0 E-04	8.6 E-11	3.7 E-11	2.3 E-11	1.4 E-11	1.2 E-11
		M	0.005	2.1 E-10	5.0 E-04	1.3 E-10	6.0 E-11	3.9 E-11	2.5 E-11	2.1 E-11
Cerij										
Ce-134	3.00 d	F	0.005	7.6 E-09	5.0 E-04	5.3 E-09	2.3 E-09	1.4 E-09	7.7 E-10	5.7 E-10
Ce-135	17.6 h	M	0.005	1.1 E-08	5.0 E-04	7.6 E-09	3.7 E-09	2.4 E-09	1.5 E-09	1.3 E-09
		S	0.005	1.2 E-08	5.0 E-04	8.0 E-09	3.8 E-09	2.5 E-09	1.6 E-09	1.3 E-09
		F	0.005	2.3 E-09	5.0 E-04	1.7 E-09	8.5 E-10	5.3 E-10	3.0 E-10	2.4 E-10
Ce-137	9.00 h	M	0.005	3.6 E-09	5.0 E-04	2.7 E-09	1.4 E-09	8.9 E-10	5.9 E-10	4.8 E-10
		S	0.005	3.7 E-09	5.0 E-04	2.8 E-09	1.4 E-09	9.4 E-10	6.3 E-10	5.0 E-10
		F	0.005	7.5 E-11	5.0 E-04	5.6 E-11	2.7 E-11	1.6 E-11	8.7 E-12	7.0 E-12
Ce-137m	1.43 d	M	0.005	1.1 E-10	5.0 E-04	7.6 E-11	3.6 E-11	2.2 E-11	1.2 E-11	9.8 E-12
		S	0.005	1.1 E-10	5.0 E-04	7.8 E-11	3.7 E-11	2.3 E-11	1.3 E-11	1.0 E-11
		F	0.005	1.6 E-09	5.0 E-04	1.1 E-09	4.6 E-10	2.8 E-10	1.5 E-10	1.2 E-10
Ce-139	138 d	M	0.005	3.1 E-09	5.0 E-04	2.2 E-09	1.1 E-09	6.7 E-10	5.1 E-10	4.1 E-10
		S	0.005	3.3 E-09	5.0 E-04	2.3 E-09	1.0 E-09	7.3 E-10	5.6 E-10	4.4 E-10
		F	0.005	1.1 E-08	5.0 E-04	8.5 E-09	4.5 E-09	2.8 E-09	1.8 E-09	1.5 E-09
Ce-141	32.5 d	M	0.005	7.5 E-09	5.0 E-04	6.1 E-09	3.6 E-09	2.5 E-09	2.1 E-09	1.7 E-09
		S	0.005	7.8 E-09	5.0 E-04	6.3 E-09	3.9 E-09	2.7 E-09	2.4 E-09	1.9 E-09
		F	0.005	1.1 E-08	5.0 E-04	7.3 E-09	3.5 E-09	2.0 E-09	1.2 E-09	9.3 E-10
Ce-143	1.38 d	M	0.005	1.4 E-08	5.0 E-04	1.1 E-08	6.3 E-09	4.6 E-09	4.1 E-09	3.2 E-09
		S	0.005	1.6 E-08	5.0 E-04	1.2 E-08	7.1 E-09	5.3 E-09	4.8 E-09	3.8 E-09
		F	0.005	3.6 E-09	5.0 E-04	2.3 E-09	1.0 E-09	6.2 E-10	3.3 E-10	2.7 E-10
Ce-144	284 d	M	0.005	5.6 E-09	5.0 E-04	3.9 E-09	1.9 E-09	1.3 E-09	9.3 E-10	7.5 E-10
		S	0.005	5.9 E-09	5.0 E-04	4.1 E-09	2.1 E-09	1.4 E-09	1.0 E-09	8.3 E-10
		F	0.005	3.6 E-07	5.0 E-04	2.7 E-07	1.4 E-07	7.8 E-08	4.8 E-08	4.0 E-08
Pr-136	0.218 h	M	0.005	1.9 E-07	5.0 E-04	1.6 E-07	8.8 E-08	5.5 E-08	4.1 E-08	3.6 E-08
		S	0.005	2.1 E-07	5.0 E-04	1.8 E-07	1.1 E-07	7.3 E-08	5.8 E-08	5.3 E-08
		F	0.005	1.3 E-10	5.0 E-04	8.8 E-11	4.2 E-11	2.6 E-11	1.6 E-11	1.3 E-11
Pr-137	1.28 h	S	0.005	1.3 E-10	5.0 E-04	9.0 E-11	4.3 E-11	2.7 E-11	1.7 E-11	1.4 E-11
		M	0.005	1.8 E-10	5.0 E-04	1.3 E-10	6.1 E-11	3.9 E-11	2.4 E-11	2.0 E-11
Pr-138m	2.10 h	S	0.005	1.9 E-10	5.0 E-04	1.3 E-10	6.4 E-11	4.0 E-11	2.5 E-11	2.1 E-11
		M	0.005	5.9 E-10	5.0 E-04	4.5 E-10	2.3 E-10	1.4 E-10	9.0 E-11	7.2 E-11
Pr-139	4.51 h	S	0.005	6.0 E-10	5.0 E-04	4.7 E-10	2.4 E-10	1.5 E-10	9.3 E-11	7.4 E-11
		M	0.005	1.5 E-10	5.0 E-04	1.1 E-10	5.5 E-11	3.5 E-11	2.3 E-11	1.8 E-11
Pr-142	19.1 h	S	0.005	1.6 E-10	5.0 E-04	1.2 E-10	5.7 E-11	3.7 E-11	2.4 E-11	2.0 E-11
		M	0.005	5.3 E-09	5.0 E-04	3.5 E-09	1.6 E-09	1.0 E-09	6.2 E-10	5.2 E-10
Pr-142m	0.243 h	S	0.005	5.5 E-09	5.0 E-04	3.7 E-09	1.7 E-09	1.1 E-09	6.6 E-10	5.5 E-10
		M	0.005	6.7 E-11	5.0 E-04	4.5 E-11	2.0 E-11	1.3 E-11	7.9 E-12	6.6 E-12
Pr-143	13.6 d	S	0.005	7.0 E-11	5.0 E-04	4.7 E-11	2.2 E-11	1.4 E-11	8.4 E-12	7.0 E-12
		M	0.005	1.2 E-08	5.0 E-04	8.4 E-09	4.6 E-09	3.2 E-09	2.7 E-09	2.2 E-09
Pr-144	0.288 h	S	0.005	1.3 E-08	5.0 E-04	9.2 E-09	5.1 E-09	3.6 E-09	3.0 E-09	2.4 E-09
		M	0.005	1.9 E-10	5.0 E-04	1.2 E-10	5.0 E-11	3.2 E-11	2.1 E-11	1.8 E-11
Pr-145	5.98 h	S	0.005	1.9 E-10	5.0 E-04	1.2 E-10	5.2 E-11	3.4 E-11	2.1 E-11	1.8 E-11
		M	0.005	1.6 E-09	5.0 E-04	1.0 E-09	4.7 E-10	3.0 E-10	1.9 E-10	1.6 E-10
Pr-147	0.227 h	S	0.005	1.6 E-09	5.0 E-04	1.1 E-09	4.9 E-10	3.2 E-10	2.0 E-10	1.7 E-10
		M	0.005	1.5 E-10	5.0 E-04	1.0 E-10	4.8 E-11	3.1 E-11	2.1 E-11	1.8 E-11

		S	0.005	1.6 E-10	5.0 E-04	1.1 E-10	5.0 E-11	3.3 E-11	2.2 E-11	1.8 E-11
Neodij										
Nd-136	0.844 h	M	0.005	4.6 E-10	5.0 E-04	3.2 E-10	1.6 E-10	9.8 E-11	6.3 E-11	5.1 E-11
		S	0.005	4.8 E-10	5.0 E-04	3.3 E-10	1.6 E-10	1.0 E-10	6.6 E-11	5.4 E-11
Nd-138	5.04 h	M	0.005	2.3 E-09	5.0 E-04	1.7 E-09	7.7 E-10	4.8 E-10	2.8 E-10	2.3 E-10
		S	0.005	2.4 E-09	5.0 E-04	1.8 E-09	8.0 E-10	5.0 E-10	3.0 E-10	2.5 E-10
Nd-139	0.495 h	M	0.005	9.0 E-11	5.0 E-04	6.2 E-11	3.0 E-11	1.9 E-11	1.2 E-11	9.9 E-12
		S	0.005	9.4 E-11	5.0 E-04	6.4 E-11	3.1 E-11	2.0 E-11	1.3 E-11	1.0 E-11
Nd-139m	5.50 h	M	0.005	1.1 E-09	5.0 E-04	8.8 E-10	4.5 E-10	2.9 E-10	1.8 E-10	1.5 E-10
		S	0.005	1.2 E-09	5.0 E-04	9.1 E-10	4.6 E-10	3.0 E-10	1.9 E-10	1.5 E-10
Nd-141	2.49 h	M	0.005	4.1 E-11	5.0 E-04	3.1 E-11	1.5 E-11	9.6 E-12	6.0 E-12	4.8 E-12
		S	0.005	4.3 E-11	5.0 E-04	3.2 E-11	1.6 E-11	1.0 E-11	6.2 E-12	5.0 E-12
Nd-147	11.0 d	M	0.005	1.1 E-08	5.0 E-04	8.0 E-09	4.5 E-09	3.2 E-09	2.6 E-09	2.1 E-09
		S	0.005	1.2 E-08	5.0 E-04	8.6 E-09	4.9 E-09	3.5 E-09	3.0 E-09	2.4 E-09
Nd-149	1.73 h	M	0.005	6.8 E-10	5.0 E-04	4.6 E-10	2.2 E-10	1.5 E-10	1.0 E-10	8.4 E-11
		S	0.005	7.1 E-10	5.0 E-04	4.8 E-10	2.3 E-10	1.5 E-10	1.1 E-10	8.9 E-11
Nd-151	0.207 h	M	0.005	1.5 E-10	5.0 E-04	9.9 E-11	4.6 E-11	3.0 E-11	2.0 E-11	1.7 E-11
		S	0.005	1.5 E-10	5.0 E-04	1.0 E-10	4.8 E-11	3.1 E-11	2.1 E-11	1.7 E-11
Promecij										
Pm-141	0.348 h	M	0.005	1.4 E-10	5.0 E-04	9.4 E-11	4.3 E-11	2.7 E-11	1.7 E-11	1.4 E-11
		S	0.005	1.5 E-10	5.0 E-04	9.7 E-11	4.4 E-11	2.8 E-11	1.8 E-11	1.5 E-11
Pm-143	265 d	M	0.005	6.2 E-09	5.0 E-04	5.4 E-09	3.3 E-09	2.2 E-09	1.7 E-09	1.5 E-09
		S	0.005	5.5 E-09	5.0 E-04	4.8 E-09	3.1 E-09	2.1 E-09	1.7 E-09	1.4 E-09
Pm-144	363 d	M	0.005	3.1 E-08	5.0 E-04	2.8 E-08	1.8 E-08	1.2 E-08	9.3 E-09	8.2 E-09
		S	0.005	2.6 E-08	5.0 E-04	2.4 E-08	1.6 E-08	1.1 E-08	8.9 E-09	7.5 E-09
Pm-145	17.7 a	M	0.005	1.1 E-08	5.0 E-04	9.8 E-09	6.4 E-09	4.3 E-09	3.7 E-09	3.6 E-09
		S	0.005	7.1 E-09	5.0 E-04	6.5 E-09	4.3 E-09	2.9 E-09	2.4 E-09	2.3 E-09
Pm-146	5.53 a	M	0.005	6.4 E-08	5.0 E-04	5.9 E-08	3.9 E-08	2.6 E-08	2.2 E-08	2.1 E-08
		S	0.005	5.3 E-08	5.0 E-04	4.9 E-08	3.3 E-08	2.2 E-08	1.9 E-08	1.7 E-08
Pm-147	2.62 a	M	0.005	2.1 E-08	5.0 E-04	1.8 E-08	1.1 E-08	7.0 E-09	5.7 E-09	5.0 E-09
		S	0.005	1.9 E-08	5.0 E-04	1.6 E-08	1.0 E-08	6.8 E-09	5.8 E-09	4.9 E-09
Pm-148	5.37 d	M	0.005	1.5 E-08	5.0 E-04	1.0 E-08	5.2 E-09	3.4 E-09	2.4 E-09	2.0 E-09
		S	0.005	1.5 E-08	5.0 E-04	1.1 E-08	5.5 E-09	3.7 E-09	2.6 E-09	2.2 E-09
Pm-148m	41.3 d	M	0.005	2.4 E-08	5.0 E-04	1.9 E-08	1.1 E-08	7.7 E-09	6.3 E-09	5.1 E-09
		S	0.005	2.5 E-08	5.0 E-04	2.0 E-08	1.2 E-08	8.3 E-09	7.1 E-09	5.7 E-09
Pm-149	2.21 d	M	0.005	5.0 E-09	5.0 E-04	3.5 E-09	1.7 E-09	1.1 E-09	8.3 E-10	6.7 E-10
		S	0.005	5.3 E-09	5.0 E-04	3.6 E-09	1.8 E-09	1.2 E-09	9.0 E-10	7.3 E-10
Pm-150	2.68 h	M	0.005	1.2 E-09	5.0 E-04	7.9 E-10	3.8 E-10	2.4 E-10	1.5 E-10	1.2 E-10
		S	0.005	1.2 E-09	5.0 E-04	8.2 E-10	3.9 E-10	2.5 E-10	1.6 E-10	1.3 E-10
Pm-151	1.18 d	M	0.005	3.3 E-09	5.0 E-04	2.5 E-09	1.2 E-09	8.3 E-10	5.3 E-10	4.3 E-10
		S	0.005	3.4 E-09	5.0 E-04	2.6 E-09	1.3 E-09	7.9 E-10	5.7 E-10	4.6 E-10
Samarij										
Sm-141	0.170 h	M	0.005	1.5 E-10	5.0 E-04	1.0 E-10	4.7 E-11	2.9 E-11	1.8 E-11	1.5 E-11
Sm-141m	0.377 h	M	0.005	3.0 E-10	5.0 E-04	2.1 E-10	9.7 E-11	6.1 E-11	3.9 E-11	3.2 E-11
Sm-142	1.21 h	M	0.005	7.5 E-10	5.0 E-04	4.8 E-10	2.2 E-10	1.4 E-10	8.5 E-11	7.1 E-11
Sm-145	340 d	M	0.005	8.1 E-09	5.0 E-04	6.8 E-09	4.0 E-09	2.5 E-09	1.9 E-09	1.6 E-09
Sm-146	1.03 E+08a	M	0.005	2.7 E-05	5.0 E-04	2.6 E-05	1.7 E-05	1.2 E-05	1.1 E-05	1.1 E-05
Sm-147	1.06 E+11a	M	0.005	2.5 E-05	5.0 E-04	2.3 E-05	1.6 E-05	1.1 E-05	9.6 E-06	9.6 E-06
Sm-151	90.0 a	M	0.005	1.1 E-08	5.0 E-04	1.0 E-08	6.7 E-09	4.5 E-09	4.0 E-09	4.0 E-09
Sm-153	1.95 d	M	0.005	4.2 E-09	5.0 E-04	2.9 E-09	1.5 E-09	1.0 E-09	7.9 E-10	6.3 E-10

Sm-155	0.368 h	M	0.005	1.5 E-10	5.0 E-04	9.9 E-11	4.4 E-11	2.9 E-11	2.0 E-11	1.7 E-11
Sm-156	9.40 h	M	0.005	1.6 E-09	5.0 E-04	1.1 E-09	5.8 E-10	3.5 E-10	2.7 E-10	2.2 E-10
Europij										
Eu-145	5.94 d	M	0.005	3.6 E-09	5.0 E-04	2.9 E-09	1.6 E-09	1.0 E-09	6.8 E-10	5.5 E-10
Eu-146	4.61 d	M	0.005	5.5 E-09	5.0 E-04	4.4 E-09	2.4 E-09	1.5 E-09	1.0 E-09	8.0 E-10
Eu-147	24.0 d	M	0.005	4.9 E-09	5.0 E-04	3.7 E-09	2.2 E-09	1.6 E-09	1.3 E-09	1.1 E-09
Eu-148	54.5 d	M	0.005	1.4 E-08	5.0 E-04	1.2 E-08	6.8 E-09	4.6 E-09	3.2 E-09	2.6 E-09
Eu-149	93.1 d	M	0.005	1.6 E-09	5.0 E-04	1.3 E-09	7.3 E-10	4.7 E-10	3.5 E-10	2.9 E-10
Eu-150	34.2 a	M	0.005	1.1 E-07	5.0 E-04	1.1 E-07	7.8 E-08	5.7 E-08	5.3 E-08	5.3 E-08
Eu-150	12.6 h	M	0.005	1.6 E-09	5.0 E-04	1.1 E-09	5.2 E-10	3.4 E-10	2.3 E-10	1.9 E-10
Eu-152	13.3 a	M	0.005	1.1 E-07	5.0 E-04	1.0 E-07	7.0 E-08	4.9 E-08	4.3 E-08	4.2 E-08
Eu-152m	9.32 h	M	0.005	1.9 E-09	5.0 E-04	1.3 E-09	6.6 E-10	4.2 E-10	2.4 E-10	2.2 E-10
Eu-154	8.80 a	M	0.005	1.6 E-07	5.0 E-04	1.5 E-07	9.7 E-08	6.5 E-08	5.6 E-08	5.3 E-08
Eu-155	4.96 a	M	0.005	2.6 E-08	5.0 E-04	2.3 E-08	1.4 E-08	9.2 E-09	7.6 E-09	6.9 E-09
Eu-156	15.2 d	M	0.005	1.9 E-08	5.0 E-04	1.4 E-08	7.7 E-09	5.3 E-09	4.2 E-09	3.4 E-09
Eu-157	15.1 h	M	0.005	2.5 E-09	5.0 E-04	1.9 E-09	8.9 E-10	5.9 E-10	3.5 E-10	2.8 E-10
Eu-158	0.765 h	M	0.005	4.3 E-10	5.0 E-04	2.9 E-10	1.3 E-10	8.5 E-11	5.6 E-11	4.7 E-11
Gadolinij										
Gd-145	0.382 h	F	0.005	1.3 E-10	5.0 E-04	9.6 E-11	4.7 E-11	2.9 E-11	1.7 E-11	1.4 E-11
		M	0.005	1.8 E-10	5.0 E-04	1.3 E-10	6.2 E-11	3.9 E-11	2.4 E-11	2.0 E-11
Gd-146	48.3 d	F	0.005	2.9 E-08	5.0 E-04	2.3 E-08	1.2 E-08	7.8 E-09	5.1 E-09	4.4 E-09
		M	0.005	2.8 E-08	5.0 E-04	2.2 E-08	1.3 E-08	9.3 E-09	7.9 E-09	6.4 E-09
Gd-147	1.59 d	F	0.005	2.1 E-09	5.0 E-04	1.7 E-09	8.4 E-10	5.3 E-10	3.1 E-10	2.6 E-10
		M	0.005	2.8 E-09	5.0 E-04	2.2 E-09	1.1 E-09	7.5 E-10	5.1 E-10	4.0 E-10
Gd-148	93.0 a	F	0.005	8.3 E-05	5.0 E-04	7.6 E-05	4.7 E-05	3.2 E-05	2.6 E-05	2.6 E-05
		M	0.005	3.2 E-05	5.0 E-04	2.9 E-05	1.9 E-05	1.3 E-05	1.2 E-05	1.1 E-05
Gd-149	9.40 d	F	0.005	2.6 E-09	5.0 E-04	2.0 E-09	8.0 E-10	5.1 E-10	3.1 E-10	2.6 E-10
		M	0.005	3.6 E-09	5.0 E-04	3.0 E-09	1.5 E-09	1.1 E-09	9.2 E-10	7.3 E-10
Gd-151	120 d	F	0.005	6.3 E-09	5.0 E-04	4.9 E-09	2.5 E-09	1.5 E-09	9.2 E-10	7.8 E-10
		M	0.005	4.5 E-09	5.0 E-04	3.5 E-09	2.0 E-09	1.3 E-09	1.0 E-09	8.6 E-10
Gd-152	1.08 E+14a	F	0.005	5.9 E-05	5.0 E-04	5.4 E-05	3.4 E-05	2.4 E-05	1.9 E-05	1.9 E-05
		M	0.005	2.1 E-05	5.0 E-04	1.9 E-05	1.3 E-05	8.9 E-06	7.9 E-06	8.0 E-06
Gd-153	242 d	F	0.005	1.5 E-08	5.0 E-04	1.2 E-08	6.5 E-09	3.9 E-09	2.4 E-09	2.1 E-09
		M	0.005	9.9 E-09	5.0 E-04	7.9 E-09	4.8 E-09	3.1 E-09	2.5 E-09	2.1 E-09
Gd-159	18.6 h	F	0.005	1.2 E-09	5.0 E-04	8.9 E-10	3.8 E-10	2.3 E-10	1.2 E-10	1.0 E-10
		M	0.005	2.2 E-09	5.0 E-04	1.5 E-09	7.3 E-10	4.9 E-10	3.4 E-10	2.7 E-10
Terbij										
Tb-147	1.65 h	M	0.005	6.7 E-10	5.0 E-04	4.8 E-10	2.3 E-10	1.5 E-10	9.3 E-11	7.6 E-11
Tb-149	4.15 h	M	0.005	2.1 E-08	5.0 E-04	1.5 E-08	9.6 E-09	6.6 E-09	5.8 E-09	4.9 E-09
Tb-150	3.27 h	M	0.005	1.0 E-09	5.0 E-04	7.4 E-10	3.5 E-10	2.2 E-10	1.3 E-10	1.1 E-10
Tb-151	17.6 h	M	0.005	1.6 E-09	5.0 E-04	1.2 E-09	6.3 E-10	4.2 E-10	2.8 E-10	2.3 E-10
Tb-153	2.34 d	M	0.005	1.4 E-09	5.0 E-04	1.0 E-09	5.4 E-10	3.6 E-10	2.3 E-10	1.9 E-10
Tb-154	21.4 h	M	0.005	2.7 E-09	5.0 E-04	2.1 E-09	1.1 E-09	7.1 E-10	4.5 E-10	3.6 E-10
Tb-155	5.32 d	M	0.005	1.4 E-09	5.0 E-04	1.0 E-09	5.6 E-10	3.4 E-10	2.7 E-10	2.2 E-10
Tb-156	5.34 d	M	0.005	7.0 E-09	5.0 E-04	5.4 E-09	3.0 E-09	2.0 E-09	1.5 E-09	1.2 E-09
Tb-156m	1.02 d	M	0.005	1.1 E-09	5.0 E-04	9.4 E-10	4.7 E-10	3.3 E-10	2.7 E-10	2.1 E-10
Tb-156m	5.00 h	M	0.005	6.2 E-10	5.0 E-04	4.5 E-10	2.4 E-10	1.7 E-10	1.2 E-10	9.6 E-11
Tb-157	1.50 E+02a	M	0.005	3.2 E-09	5.0 E-04	3.0 E-09	2.0 E-09	1.4 E-09	1.2 E-09	1.2 E-09
Tb-158	1.50 E+02a	M	0.005	1.1 E-07	5.0 E-04	1.0 E-07	7.0 E-08	5.1 E-08	4.7 E-08	4.6 E-08

Tb-160	72.3 d	M	0.005	3.2 E-08	5.0 E-04	2.5 E-08	1.5 E-08	1.0 E-08	8.6 E-09	7.0 E-09
Tb-161	6.91 d	M	0.005	6.6 E-09	5.0 E-04	4.7 E-09	2.6 E-09	1.9 E-09	1.6 E-09	1.3 E-09
Disprozij										
Dy-155	10.0 h	M	0.005	5.6 E-10	5.0 E-04	4.4 E-10	2.3 E-10	1.5 E-10	9.6 E-11	7.7 E-11
Dy-157	8.10 h	M	0.005	2.4 E-10	5.0 E-04	1.9 E-10	9.9 E-11	6.2 E-11	3.8 E-11	3.0 E-11
Dy-159	144 d	M	0.005	2.1 E-09	5.0 E-04	1.7 E-09	9.6 E-10	6.0 E-10	4.4 E-10	3.7 E-10
Dy-165	2.33 h	M	0.005	5.2 E-10	5.0 E-04	3.4 E-10	1.6 E-10	1.1 E-10	7.2 E-11	6.0 E-11
Dy-166	3.40 d	M	0.005	1.2 E-08	5.0 E-04	8.3 E-09	4.4 E-09	3.0 E-09	2.3 E-09	1.9 E-09
Holmij										
Ho-155	0.800 h	M	0.005	1.7 E-10	5.0 E-04	1.2 E-10	5.8 E-11	3.7 E-11	2.4 E-11	2.0 E-11
Ho-157	0.210 h	M	0.005	3.4 E-11	5.0 E-04	2.5 E-11	1.3 E-11	8.0 E-12	5.1 E-12	4.2 E-12
Ho-159	0.550 h	M	0.005	4.6 E-11	5.0 E-04	3.3 E-11	1.7 E-11	1.1 E-11	7.5 E-12	6.1 E-12
Ho-161	2.50 h	M	0.005	5.7 E-11	5.0 E-04	4.0 E-11	2.0 E-11	1.2 E-11	7.5 E-12	6.0 E-12
Ho-162	0.250 h	M	0.005	2.1 E-11	5.0 E-04	1.5 E-11	7.2 E-12	4.8 E-12	3.4 E-12	2.8 E-12
Ho-162m	1.13 h	M	0.005	1.5 E-10	5.0 E-04	1.1 E-10	5.8 E-11	3.8 E-11	2.6 E-11	2.1 E-11
Ho-164	0.483 h	M	0.005	6.8 E-11	5.0 E-04	4.5 E-11	2.1 E-11	1.4 E-11	9.9 E-12	8.4 E-12
Ho-164m	0.625 h	M	0.005	9.1 E-11	5.0 E-04	5.9 E-11	3.0 E-11	2.0 E-11	1.3 E-11	1.2 E-11
Ho-166	1.12 d	M	0.005	6.0 E-09	5.0 E-04	4.0 E-09	1.9 E-09	1.2 E-09	7.9 E-10	6.5 E-10
Ho-166m	1.20 E+03a	M	0.005	2.6 E-07	5.0 E-04	2.5 E-07	1.8 E-07	1.3 E-07	1.2 E-07	1.2 E-07
Ho-167	3.10 h	M	0.005	5.2 E-10	5.0 E-04	3.6 E-10	1.8 E-10	1.2 E-10	8.7 E-11	7.1 E-11
Erbij										
Er-161	3.24 h	M	0.005	3.8 E-10	5.0 E-04	2.9 E-10	1.5 E-10	9.5 E-11	6.0 E-11	4.8 E-11
Er-165	10.4 h	M	0.005	7.2 E-11	5.0 E-04	5.3 E-11	2.6 E-11	1.6 E-11	9.6 E-12	7.9 E-12
Er-169	9.30 d	M	0.005	4.7 E-09	5.0 E-04	3.5 E-09	2.0 E-09	1.5 E-09	1.3 E-09	1.0 E-09
Er-171	7.52 h	M	0.005	1.8 E-09	5.0 E-04	1.2 E-09	5.9 E-10	3.9 E-10	2.7 E-10	2.2 E-10
Er-172	2.05 d	M	0.005	6.6 E-09	5.0 E-04	4.7 E-09	2.5 E-09	1.7 E-09	1.4 E-09	1.1 E-09
Tulij										
Tm-162	0.362 h	M	0.005	1.3 E-10	5.0 E-04	9.6 E-11	4.7 E-11	3.0 E-11	1.9 E-11	1.6 E-11
Tm-166	7.70 h	M	0.005	1.3 E-09	5.0 E-04	9.9 E-10	5.2 E-10	3.3 E-10	2.2 E-10	1.7 E-10
Tm-167	9.24 d	M	0.005	5.6 E-09	5.0 E-04	4.1 E-09	2.3 E-09	1.7 E-09	1.4 E-09	1.1 E-09
Tm-170	129 d	M	0.005	3.6 E-08	5.0 E-04	2.8 E-08	1.6 E-08	1.1 E-08	8.5 E-09	7.0 E-09
Tm-171	1.92 g	M	0.005	6.8 E-09	5.0 E-04	5.7 E-09	3.4 E-09	2.0 E-09	1.6 E-09	1.4 E-09
Tm-172	2.65 d	M	0.005	8.4 E-09	5.0 E-04	5.8 E-09	2.9 E-09	1.9 E-09	1.4 E-09	1.1 E-09
Tm-173	8.24 h	M	0.005	1.5 E-09	5.0 E-04	1.0 E-09	5.0 E-10	3.3 E-10	2.2 E-10	1.8 E-10
Tm-175	0.253 h	M	0.005	1.6 E-10	5.0 E-04	1.1 E-10	5.0 E-11	3.3 E-11	2.2 E-11	1.8 E-11
Iterbij										
Yb-162	0.315 h	M	0.005	1.1 E-10	5.0 E-04	7.9 E-11	3.9 E-11	2.5 E-11	1.6 E-11	1.3 E-11
		S	0.005	1.2 E-10	5.0 E-04	8.2 E-11	4.0 E-11	2.6 E-11	1.7 E-11	1.4 E-11
Yb-166	2.36 d	M	0.005	4.7 E-09	5.0 E-04	3.5 E-09	1.9 E-09	1.3 E-09	9.0 E-10	7.2 E-10
		S	0.005	4.9 E-09	5.0 E-04	3.7 E-09	2.0 E-09	1.3 E-09	9.6 E-10	7.7 E-10
Yb-167	0.292 h	M	0.005	4.4 E-11	5.0 E-04	3.1 E-11	1.6 E-11	1.1 E-11	7.9 E-12	6.5 E-12
		S	0.005	4.6 E-11	5.0 E-04	3.2 E-11	1.7 E-11	1.1 E-11	8.4 E-12	6.9 E-12
Yb-169	32.0 d	M	0.005	1.2 E-08	5.0 E-04	8.7 E-09	5.1 E-09	3.7 E-09	3.2 E-09	2.5 E-09
		S	0.005	1.3 E-08	5.0 E-04	9.8 E-09	5.9 E-09	4.2 E-09	3.7 E-09	3.0 E-09
Yb-175	4.19 d	M	0.005	3.5 E-09	5.0 E-04	2.5 E-09	1.4 E-09	9.8 E-10	8.3 E-10	6.5 E-10
		S	0.005	3.7 E-09	5.0 E-04	2.7 E-09	1.5 E-09	1.1 E-09	9.2 E-10	7.3 E-10
Yb-177	1.90 h	M	0.005	5.0 E-10	5.0 E-04	3.3 E-10	1.6 E-10	1.1 E-10	7.8 E-11	6.4 E-11

Yb-178	1.23 h	S	0.005	5.3 E-10	5.0 E-04	3.5 E-10	1.7 E-10	1.2 E-10	8.4 E-11	6.9 E-11
		M	0.005	5.9 E-10	5.0 E-04	3.9 E-10	1.8 E-10	1.2 E-10	8.5 E-11	7.0 E-11
		S	0.005	6.2 E-10	5.0 E-04	4.1 E-10	1.9 E-10	1.3 E-10	9.1 E-11	7.5 E-11
Lutecij										
Lu-169	1.42 d	M	0.005	2.3 E-09	5.0 E-04	1.8 E-09	9.5 E-10	6.3 E-10	4.4 E-10	3.5 E-10
		S	0.005	2.4 E-09	5.0 E-04	1.9 E-09	1.0 E-09	6.7 E-10	4.8 E-10	3.8 E-10
Lu-170	2.00 d	M	0.005	4.3 E-09	5.0 E-04	3.4 E-09	1.8 E-09	1.2 E-09	7.8 E-10	6.3 E-10
		S	0.005	4.5 E-09	5.0 E-04	3.5 E-09	1.8 E-09	1.2 E-09	8.2 E-10	6.6 E-10
Lu-171	8.22 d	M	0.005	5.0 E-09	5.0 E-04	3.7 E-09	2.1 E-09	1.2 E-09	9.8 E-10	8.0 E-10
		S	0.005	4.7 E-09	5.0 E-04	3.9 E-09	2.0 E-09	1.4 E-09	1.1 E-09	8.8 E-10
Lu-172	6.70 d	M	0.005	8.7 E-09	5.0 E-04	6.7 E-09	3.8 E-09	2.6 E-09	1.8 E-09	1.4 E-09
		S	0.005	9.3 E-09	5.0 E-04	7.1 E-09	4.0 E-09	2.8 E-09	2.0 E-09	1.6 E-09
Lu-173	1.37 a	M	0.005	1.0 E-08	5.0 E-04	8.5 E-09	5.1 E-09	3.2 E-09	2.5 E-09	2.2 E-09
		S	0.005	1.0 E-08	5.0 E-04	8.7 E-09	5.4 E-09	3.6 E-09	2.9 E-09	2.4 E-09
Lu-174	3.31 a	M	0.005	1.7 E-08	5.0 E-04	1.5 E-08	9.1 E-09	5.8 E-09	4.7 E-09	4.2 E-09
		S	0.005	1.6 E-08	5.0 E-04	1.4 E-08	8.9 E-09	5.9 E-09	4.9 E-09	4.2 E-09
Lu-174m	142 d	M	0.005	1.9 E-08	5.0 E-04	1.4 E-08	8.6 E-09	5.4 E-09	4.3 E-09	3.7 E-09
		S	0.005	2.0 E-08	5.0 E-04	1.5 E-08	9.2 E-09	6.1 E-09	5.0 E-09	4.2 E-09
Lu-176	3.60 E+10a	M	0.005	1.8 E-07	5.0 E-04	1.7 E-07	1.1 E-07	7.8 E-08	7.1 E-08	7.0 E-08
		S	0.005	1.5 E-07	5.0 E-04	1.4 E-07	9.4 E-08	6.5 E-08	5.9 E-08	5.6 E-08
Lu-176m	3.68 h	M	0.005	8.9 E-10	5.0 E-04	5.9 E-10	2.8 E-10	1.9 E-10	1.2 E-10	1.1 E-10
		S	0.005	9.3 E-10	5.0 E-04	6.2 E-10	3.0 E-10	2.0 E-10	1.2 E-10	1.2 E-10
Lu-177	6.71 d	M	0.005	5.3 E-09	5.0 E-04	3.8 E-09	2.2 E-09	1.6 E-09	1.4 E-09	1.1 E-09
		S	0.005	5.7 E-09	5.0 E-04	4.1 E-09	2.4 E-09	1.7 E-09	1.5 E-09	1.2 E-09
Lu-177m	161 d	M	0.005	5.8 E-08	5.0 E-04	4.6 E-08	2.8 E-08	1.9 E-08	1.6 E-08	1.3 E-08
		S	0.005	6.5 E-08	5.0 E-04	5.3 E-08	3.2 E-08	2.3 E-08	2.0 E-08	1.6 E-08
Lu-178	0.473 h	M	0.005	2.3 E-10	5.0 E-04	1.5 E-10	6.6 E-11	4.3 E-11	2.9 E-11	2.4 E-11
		S	0.005	2.4 E-10	5.0 E-04	1.5 E-10	6.9 E-11	4.5 E-11	3.0 E-11	2.6 E-11
Lu-178m	0.378 h	M	0.005	2.6 E-10	5.0 E-04	1.8 E-10	8.3 E-11	5.6 E-11	3.8 E-11	3.2 E-11
		S	0.005	2.7 E-10	5.0 E-04	1.9 E-10	8.7 E-11	5.8 E-11	4.0 E-11	3.3 E-11
Lu-179	4.59 h	M	0.005	9.9 E-10	5.0 E-04	6.5 E-10	3.0 E-10	2.0 E-10	1.2 E-10	1.1 E-10
		S	0.005	1.0 E-09	5.0 E-04	6.8 E-10	3.2 E-10	2.1 E-10	1.3 E-10	1.2 E-10
Hafnij										
Hf-170	16.0 h	F	0.020	1.4 E-09	0.002	1.1 E-09	5.4 E-10	3.4 E-10	2.0 E-10	1.6 E-10
		M	0.020	2.2 E-09	0.002	1.7 E-09	8.7 E-10	5.8 E-10	3.9 E-10	3.2 E-10
Hf-172	1.87 a	F	0.020	1.5 E-07	0.002	1.3 E-07	7.8 E-08	4.9 E-08	3.5 E-08	3.2 E-08
		M	0.020	8.1 E-08	0.002	6.9 E-08	4.3 E-08	2.8 E-08	2.3 E-08	2.0 E-08
Hf-173	24.0 h	F	0.020	6.6 E-10	0.002	5.0 E-10	2.5 E-10	1.5 E-10	8.9 E-11	7.4 E-11
		M	0.020	1.1 E-09	0.002	8.2 E-10	4.3 E-10	2.9 E-10	2.0 E-10	1.6 E-10
Hf-175	70.0 d	F	0.020	5.4 E-09	0.002	4.0 E-09	2.1 E-09	1.3 E-09	8.5 E-10	7.2 E-10
		M	0.020	5.8 E-09	0.002	4.5 E-09	2.6 E-09	1.8 E-09	1.4 E-09	1.2 E-09
Hf-177m	0.856 h	F	0.020	3.9 E-10	0.002	2.8 E-10	1.3 E-10	8.5 E-11	5.2 E-11	4.4 E-11
		M	0.020	6.5 E-10	0.002	4.7 E-10	2.3 E-10	1.5 E-10	1.1 E-10	9.0 E-11
Hf-178m	31.0 a	F	0.020	6.2 E-07	0.002	5.8 E-07	4.0 E-07	3.1 E-07	2.7 E-07	2.6 E-07
		M	0.020	2.6 E-07	0.002	2.4 E-07	1.7 E-07	1.3 E-07	1.2 E-07	1.2 E-07
Hf-179m	25.1 d	F	0.020	9.7 E-09	0.002	6.8 E-09	3.4 E-09	2.1 E-09	1.2 E-09	1.1 E-09
		M	0.020	1.7 E-08	0.002	1.3 E-08	7.6 E-09	5.5 E-09	4.8 E-09	3.8 E-09
Hf-180m	5.50 h	F	0.020	5.4 E-10	0.002	4.1 E-10	2.0 E-10	1.3 E-10	7.2 E-11	5.9 E-11
		M	0.020	9.1 E-10	0.002	6.8 E-10	3.6 E-10	2.4 E-10	1.7 E-10	1.3 E-10
Hf-181	42.4 d	F	0.020	1.3 E-08	0.002	9.6 E-09	4.8 E-09	2.8 E-09	1.7 E-09	1.4 E-09

Hf-182	9.00 E+06a	M	0.020	2.2 E-08	0.002	1.7 E-08	9.9 E-09	7.1 E-09	6.3 E-09	5.0 E-09
		F	0.020	6.5 E-07	0.002	6.2 E-07	4.4 E-07	3.6 E-07	3.1 E-07	3.1 E-07
		M	0.020	2.4 E-07	0.002	2.3 E-07	1.7 E-07	1.3 E-07	1.3 E-07	1.3 E-07
Hf-182m	1.02 h	F	0.020	1.9 E-10	0.002	1.4 E-10	6.6 E-11	4.2 E-11	2.6 E-11	2.1 E-11
		M	0.020	3.2 E-10	0.002	2.3 E-10	1.2 E-10	7.8 E-11	5.6 E-11	4.6 E-11
Hf-183	1.07 h	F	0.020	2.5 E-10	0.002	1.7 E-10	7.9 E-11	4.9 E-11	2.8 E-11	2.4 E-11
		M	0.020	4.4 E-10	0.002	3.0 E-10	1.5 E-10	9.8 E-11	7.0 E-11	5.7 E-11
Hf-184	4.12 h	F	0.020	1.4 E-09	0.002	9.6 E-10	4.3 E-10	2.7 E-10	1.4 E-10	1.2 E-10
		M	0.020	2.6 E-09	0.002	1.8 E-09	8.9 E-10	5.9 E-10	4.0 E-10	3.3 E-10
Tantal										
Ta-172	0.613 h	M	0.010	2.8 E-10	0.001	1.9 E-10	9.3 E-11	6.0 E-11	4.0 E-11	3.3 E-11
		S	0.010	2.9 E-10	0.001	2.0 E-10	9.8 E-11	6.3 E-11	4.2 E-11	3.5 E-11
Ta-173	3.65 h	M	0.010	8.8 E-10	0.001	6.2 E-10	3.0 E-10	2.0 E-10	1.3 E-10	1.1 E-10
		S	0.010	9.2 E-10	0.001	6.5 E-10	3.2 E-10	2.1 E-10	1.4 E-10	1.1 E-10
Ta-174	1.20 h	M	0.010	3.2 E-10	0.001	2.2 E-10	1.1 E-10	7.1 E-11	5.0 E-11	4.1 E-11
		S	0.010	3.4 E-10	0.001	2.3 E-10	1.1 E-10	7.5 E-11	5.3 E-11	4.3 E-11
Ta-175	10.5 h	M	0.010	9.1 E-10	0.001	7.0 E-10	3.7 E-10	2.4 E-10	1.5 E-10	1.2 E-10
		S	0.010	9.5 E-10	0.001	7.3 E-10	3.8 E-10	2.5 E-10	1.6 E-10	1.3 E-10
Ta-176	8.08 h	M	0.010	1.4 E-09	0.001	1.1 E-09	5.7 E-10	3.7 E-10	2.4 E-10	1.9 E-10
		S	0.010	1.4 E-09	0.001	1.1 E-09	5.9 E-10	3.8 E-10	2.5 E-10	2.0 E-10
Ta-177	2.36 d	M	0.010	6.5 E-10	0.001	4.7 E-10	2.5 E-10	1.5 E-10	1.2 E-10	9.6 E-11
		S	0.010	6.9 E-10	0.001	5.0 E-10	2.7 E-10	1.7 E-10	1.3 E-10	1.1 E-10
Ta-178	2.20 h	M	0.010	4.4 E-10	0.001	3.3 E-10	1.7 E-10	1.1 E-10	8.0 E-11	6.5 E-11
		S	0.010	4.6 E-10	0.001	3.4 E-10	1.8 E-10	1.2 E-10	8.5 E-11	6.8 E-11
Ta-179	1.82 a	M	0.010	1.2 E-09	0.001	9.6 E-10	5.5 E-10	3.5 E-10	2.6 E-10	2.2 E-10
		S	0.010	2.4 E-09	0.001	2.1 E-09	1.3 E-09	8.3 E-10	6.4 E-10	5.6 E-10
Ta-180	1.00 E+13a	M	0.010	2.7 E-08	0.001	2.2 E-08	1.3 E-08	9.2 E-09	7.9 E-09	6.4 E-09
		S	0.010	7.0 E-08	0.001	6.5 E-08	4.5 E-08	3.1 E-08	2.8 E-08	2.6 E-08
Ta-180m	8.10 h	M	0.010	3.1 E-10	0.001	2.2 E-10	1.1 E-10	7.4 E-11	4.8 E-11	4.4 E-11
		S	0.010	3.3 E-10	0.001	2.3 E-10	1.2 E-10	7.9 E-11	5.2 E-11	4.2 E-11
Ta-182	115 d	M	0.010	3.2 E-08	0.001	2.6 E-08	1.5 E-08	1.1 E-08	9.5 E-09	7.6 E-09
		S	0.010	4.2 E-08	0.001	3.4 E-08	2.1 E-08	1.5 E-08	1.3 E-08	1.0 E-08
Ta-182m	0.264 h	M	0.010	1.6 E-10	0.001	1.1 E-10	4.9 E-11	3.4 E-11	2.4 E-11	2.0 E-11
		S	0.010	1.6 E-10	0.001	1.1 E-10	5.2 E-11	3.6 E-11	2.5 E-11	2.1 E-11
Ta-183	5.10 d	M	0.010	1.0 E-08	0.001	7.4 E-09	4.1 E-09	2.9 E-09	2.4 E-09	1.9 E-09
		S	0.010	1.1 E-08	0.001	8.0 E-09	4.5 E-09	3.2 E-09	2.7 E-09	2.1 E-09
Ta-184	8.70 h	M	0.010	3.2 E-09	0.001	2.3 E-09	1.1 E-09	7.5 E-10	5.0 E-10	4.1 E-10
		S	0.010	3.4 E-09	0.001	2.4 E-09	1.2 E-09	7.9 E-10	5.4 E-10	4.3 E-10
Ta-185	0.816 h	M	0.010	3.8 E-10	0.001	2.5 E-10	1.2 E-10	7.7 E-11	5.4 E-11	4.5 E-11
		S	0.010	4.0 E-10	0.001	2.6 E-10	1.2 E-10	8.2 E-11	5.7 E-11	4.8 E-11
Ta-186	0.175 h	M	0.010	1.6 E-10	0.001	1.1 E-10	4.8 E-11	3.1 E-11	2.0 E-11	1.7 E-11
		S	0.010	1.6 E-10	0.001	1.1 E-10	5.0 E-11	3.2 E-11	2.1 E-11	1.8 E-11
Volfram										
W-176	2.30 h	F	0.600	3.3 E-10	0.300	2.7 E-10	1.4 E-10	8.6 E-11	5.0 E-11	4.1 E-11
W-177	2.25 h	F	0.600	2.0 E-10	0.300	1.6 E-10	8.2 E-11	5.1 E-11	3.0 E-11	2.4 E-11
W-178	21.7 d	F	0.600	7.2 E-10	0.300	5.4 E-10	2.5 E-10	1.6 E-10	8.7 E-11	7.2 E-11
W-179	0.625 h	F	0.600	9.3 E-12	0.300	6.8 E-12	3.3 E-12	2.0 E-12	1.2 E-12	9.2 E-13
W-181	121 d	F	0.600	2.5 E-10	0.300	1.9 E-10	9.2 E-11	5.7 E-11	3.2 E-11	2.7 E-11
W-185	75.1 d	F	0.600	1.4 E-09	0.300	1.0 E-09	4.4 E-10	2.7 E-10	1.4 E-10	1.2 E-10
W-187	23.9 h	F	0.600	2.0 E-09	0.300	1.5 E-09	7.0 E-10	4.3 E-10	2.3 E-10	1.9 E-10

W-188	69.4 d	F	0.600	7.1 E-09	0.300	5.0 E-09	2.2 E-09	1.3 E-09	6.8 E-10	5.7 E-10
Renij										
Re-177	0.233 h	F	1.000	9.4 E-11	0.800	6.7 E-11	3.2 E-11	1.9 E-11	1.2 E-11	9.7 E-12
		M	1.000	1.1 E-10	0.800	7.9 E-11	3.9 E-11	2.5 E-11	1.7 E-11	1.4 E-11
Re-178	0.220 h	F	1.000	9.9 E-11	0.800	6.8 E-11	3.1 E-11	1.9 E-11	1.2 E-11	1.0 E-11
		M	1.000	1.3 E-10	0.800	8.5 E-11	3.9 E-11	2.6 E-11	1.7 E-11	1.4 E-11
Re-181	20.0 h	F	1.000	2.0 E-09	0.800	1.4 E-09	6.7 E-10	3.8 E-10	2.3 E-10	1.8 E-10
		M	1.000	2.1 E-09	0.800	1.5 E-09	7.4 E-10	4.6 E-10	3.1 E-10	2.5 E-10
Re-182	2.67 d	F	1.000	6.5 E-09	0.800	4.7 E-09	2.2 E-09	1.3 E-09	8.0 E-10	6.4 E-10
		M	1.000	8.7 E-09	0.800	6.3 E-09	3.4 E-09	2.2 E-09	1.5 E-09	1.2 E-09
Re-182	12.7 h	F	1.000	1.3 E-09	0.800	1.0 E-09	4.9 E-10	2.8 E-10	1.7 E-10	1.4 E-10
		M	1.000	1.4 E-09	0.800	1.1 E-09	5.7 E-10	3.6 E-10	2.5 E-10	2.0 E-10
Re-184	38.0 d	F	1.000	4.1 E-09	0.800	2.9 E-09	1.4 E-09	8.6 E-10	5.4 E-10	4.4 E-10
		M	1.000	9.1 E-09	0.800	6.8 E-09	4.0 E-09	2.8 E-09	2.4 E-09	1.9 E-09
Re-184m	165 d	F	1.000	6.6 E-09	0.800	4.6 E-09	2.0 E-09	1.2 E-09	7.3 E-10	5.9 E-10
		M	1.000	2.9 E-08	0.800	2.2 E-08	1.3 E-08	9.3 E-09	8.1 E-09	6.5 E-09
Re-186	3.78 d	F	1.000	7.3 E-09	0.800	4.7 E-09	2.0 E-09	1.1 E-09	6.6 E-10	5.2 E-10
		M	1.000	8.7 E-09	0.800	5.7 E-09	2.8 E-09	1.8 E-09	1.4 E-09	1.1 E-09
Re-186m	2.00 E+05a	F	1.000	1.2 E-08	0.800	7.0 E-09	2.9 E-09	1.7 E-09	1.0 E-09	8.3 E-10
		M	1.000	5.9 E-08	0.800	4.6 E-08	2.7 E-08	1.8 E-08	1.4 E-08	1.2 E-08
Re-187	5.00 E+10a	F	1.000	2.6 E-11	0.800	1.6 E-11	6.8 E-12	3.8 E-12	2.3 E-12	1.8 E-12
		M	1.000	5.7 E-11	0.800	4.1 E-11	2.0 E-11	1.2 E-11	7.5 E-12	6.3 E-12
Re-188	17.0 h	F	1.000	6.5 E-09	0.800	4.4 E-09	1.9 E-09	1.0 E-09	6.1 E-10	4.6 E-10
		M	1.000	6.0 E-09	0.800	4.0 E-09	1.8 E-09	1.0 E-09	6.8 E-10	5.4 E-10
Re-188m	0.310 h	F	1.000	1.4 E-10	0.800	9.1 E-11	4.0 E-11	2.1 E-11	1.3 E-11	1.0 E-11
		M	1.000	1.3 E-10	0.800	8.6 E-11	4.0 E-11	2.7 E-11	1.6 E-11	1.3 E-11
Re-189	1.01 d	F	1.000	3.7 E-09	0.800	2.5 E-09	1.1 E-09	5.8 E-10	3.5 E-10	2.7 E-10
		M	1.000	3.9 E-09	0.800	2.6 E-09	1.2 E-09	7.6 E-10	5.5 E-10	4.3 E-10
Osmij										
Os-180	0.366 h	F	0.020	7.1 E-11	0.010	5.3 E-11	2.6 E-11	1.6 E-11	1.0 E-11	8.2 E-12
		M	0.020	1.1 E-10	0.010	7.9 E-11	3.9 E-11	2.5 E-11	1.7 E-11	1.4 E-11
		S	0.020	1.1 E-10	0.010	8.2 E-11	4.1 E-11	2.6 E-11	1.8 E-11	1.5 E-11
Os-181	1.75 h	F	0.020	3.0 E-10	0.010	2.3 E-10	1.1 E-10	7.0 E-11	4.1 E-11	3.3 E-11
		M	0.020	4.5 E-10	0.010	3.4 E-10	1.8 E-10	1.1 E-10	7.6 E-11	6.2 E-11
		S	0.020	4.7 E-10	0.010	3.6 E-10	1.8 E-10	1.2 E-10	8.1 E-11	6.5 E-11
Os-182	22.0 h	F	0.020	1.6 E-09	0.010	1.2 E-09	6.0 E-10	3.7 E-10	2.1 E-10	1.7 E-10
		M	0.020	2.5 E-09	0.010	1.9 E-09	1.0 E-09	6.6 E-10	4.5 E-10	3.6 E-10
		S	0.020	2.6 E-09	0.010	2.0 E-09	1.0 E-09	6.9 E-10	4.8 E-10	3.8 E-10
Os-185	94.0 d	F	0.020	7.2 E-09	0.010	5.8 E-09	3.1 E-09	1.9 E-09	1.2 E-09	1.1 E-09
		M	0.020	6.6 E-09	0.010	5.4 E-09	2.9 E-09	2.0 E-09	1.5 E-09	1.3 E-09
		S	0.020	7.0 E-09	0.010	5.8 E-09	3.6 E-09	2.4 E-09	1.9 E-09	1.6 E-09
Os-189m	6.00 h	F	0.020	3.8 E-11	0.010	2.8 E-11	1.2 E-11	7.0 E-12	3.5 E-12	2.5 E-12
		M	0.020	6.5 E-11	0.010	4.1 E-11	1.8 E-11	1.1 E-11	6.0 E-12	5.0 E-12
		S	0.020	6.8 E-11	0.010	4.3 E-11	1.9 E-11	1.2 E-11	6.3 E-12	5.3 E-12
Os-191	15.4 d	F	0.020	2.8 E-09	0.010	1.9 E-09	8.5 E-10	5.3 E-10	3.0 E-10	2.5 E-10
		M	0.020	8.0 E-09	0.010	5.8 E-09	3.4 E-09	2.4 E-09	2.0 E-09	1.7 E-09
		S	0.020	9.0 E-09	0.010	6.5 E-09	3.9 E-09	2.7 E-09	2.3 E-09	1.9 E-09
Os-191m	13.0 h	F	0.020	3.0 E-10	0.010	2.0 E-10	8.8 E-11	5.4 E-11	2.9 E-11	2.4 E-11
		M	0.020	7.8 E-10	0.010	5.4 E-10	3.1 E-10	2.1 E-10	1.7 E-10	1.4 E-10
		S	0.020	8.5 E-10	0.010	6.0 E-10	3.4 E-10	2.4 E-10	2.0 E-10	1.6 E-10

Os-193	1.25 d	F	0.020	1.9 E-09	0.010	1.2 E-09	5.2 E-10	3.2 E-10	1.8 E-10	1.6 E-10
		M	0.020	3.8 E-09	0.010	2.6 E-09	1.3 E-09	8.4 E-10	5.9 E-10	4.8 E-10
		S	0.020	4.0 E-09	0.010	2.7 E-09	1.3 E-09	9.0 E-10	6.4 E-10	5.2 E-10
Os-194	6.00 a	F	0.020	8.7 E-08	0.010	6.8 E-08	3.4 E-08	2.1 E-08	1.3 E-08	1.1 E-08
		M	0.020	9.9 E-08	0.010	8.3 E-08	4.8 E-08	3.1 E-08	2.4 E-08	2.1 E-08
		S	0.020	2.6 E-07	0.010	2.4 E-07	1.6 E-07	1.1 E-07	8.8 E-08	8.5 E-08
Iridij										
Ir-182	0.250 h	F	0.020	1.4 E-10	0.010	9.8 E-11	4.5 E-11	2.8 E-11	1.7 E-11	1.4 E-11
		M	0.020	2.1 E-10	0.010	1.4 E-10	6.7 E-11	4.3 E-11	2.8 E-11	2.3 E-11
		S	0.020	2.2 E-10	0.010	1.5 E-10	6.9 E-11	4.4 E-11	2.9 E-11	2.4 E-11
Ir-184	3.02 h	F	0.020	5.7 E-10	0.010	4.4 E-10	2.1 E-10	1.3 E-10	7.6 E-11	6.2 E-11
		M	0.020	8.6 E-10	0.010	6.4 E-10	3.2 E-10	2.1 E-10	1.4 E-10	1.1 E-10
		S	0.020	8.9 E-10	0.010	6.6 E-10	3.4 E-10	2.2 E-10	1.4 E-10	1.2 E-10
Ir-185	14.0 h	F	0.020	8.0 E-10	0.010	6.1 E-10	2.9 E-10	1.8 E-10	1.0 E-10	8.2 E-11
		M	0.020	1.3 E-09	0.010	9.7 E-10	4.9 E-10	3.2 E-10	2.2 E-10	1.8 E-10
		S	0.020	1.4 E-09	0.010	1.0 E-09	5.2 E-10	3.4 E-10	2.3 E-10	1.9 E-10
Ir-186	15.8 h	F	0.020	1.5 E-09	0.010	1.2 E-09	5.9 E-10	3.6 E-10	2.1 E-10	1.7 E-10
		M	0.020	2.2 E-09	0.010	1.7 E-09	8.8 E-10	5.8 E-10	3.8 E-10	3.1 E-10
		S	0.020	2.3 E-09	0.010	1.8 E-09	9.2 E-10	6.0 E-10	4.0 E-10	3.2 E-10
Ir-186	1.75 h	F	0.020	2.1 E-10	0.010	1.6 E-10	7.7 E-11	4.8 E-11	2.8 E-11	2.3 E-11
		M	0.020	3.3 E-10	0.010	2.4 E-10	1.2 E-10	7.7 E-11	5.1 E-11	4.2 E-11
		S	0.020	3.4 E-10	0.010	2.5 E-10	1.2 E-10	8.1 E-11	5.4 E-11	4.4 E-11
Ir-187	10.5 h	F	0.020	3.6 E-10	0.010	2.8 E-10	1.4 E-10	8.2 E-11	4.6 E-11	3.7 E-11
		M	0.020	5.8 E-10	0.010	4.3 E-10	2.2 E-10	1.4 E-10	9.2 E-11	7.4 E-11
		S	0.020	6.0 E-10	0.010	4.5 E-10	2.3 E-10	1.5 E-10	9.7 E-11	7.9 E-11
Ir-188	1.73 d	F	0.020	2.0 E-09	0.010	1.6 E-09	8.0 E-10	5.0 E-10	2.9 E-10	2.4 E-10
		M	0.020	2.7 E-09	0.010	2.1 E-09	1.1 E-09	7.5 E-10	5.0 E-10	4.0 E-10
		S	0.020	2.8 E-09	0.010	2.2 E-09	1.2 E-09	7.8 E-10	5.2 E-10	4.2 E-10
Ir-189	13.3 d	F	0.020	1.2 E-09	0.010	8.2 E-10	3.8 E-10	2.4 E-10	1.3 E-10	1.1 E-10
		M	0.020	2.7 E-09	0.010	1.9 E-09	1.1 E-09	7.7 E-10	6.4 E-10	5.2 E-10
		S	0.020	3.0 E-09	0.010	2.2 E-09	1.3 E-09	8.7 E-10	7.3 E-10	6.0 E-10
Ir-190	12.1 d	F	0.020	6.2 E-09	0.010	4.7 E-09	2.4 E-09	1.5 E-09	9.1 E-10	7.7 E-10
		M	0.020	1.1 E-08	0.010	8.6 E-09	4.4 E-09	3.1 E-09	2.7 E-09	2.1 E-09
		S	0.020	1.1 E-08	0.010	9.4 E-09	4.8 E-09	3.5 E-09	3.0 E-09	2.4 E-09
Ir-190m	3.10 h	F	0.020	4.2 E-10	0.010	3.4 E-10	1.7 E-10	1.0 E-10	6.0 E-11	4.9 E-11
		M	0.020	6.0 E-10	0.010	4.7 E-10	2.4 E-10	1.5 E-10	9.9 E-11	7.9 E-11
		S	0.020	6.2 E-10	0.010	4.8 E-10	2.5 E-10	1.6 E-10	1.0 E-10	8.3 E-11
Ir-190m	1.20 h	F	0.020	3.2 E-11	0.010	2.4 E-11	1.2 E-11	7.2 E-12	4.3 E-12	3.6 E-12
		M	0.020	5.7 E-11	0.010	4.2 E-11	2.0 E-11	1.4 E-11	1.2 E-11	9.3 E-12
		S	0.020	5.5 E-11	0.010	4.5 E-11	2.2 E-11	1.6 E-11	1.3 E-11	1.0 E-11
Ir-192	74.0 d	F	0.020	1.5 E-08	0.010	1.1 E-08	5.7 E-09	3.3 E-09	2.1 E-09	1.8 E-09
		M	0.020	2.3 E-08	0.010	1.8 E-08	1.1 E-08	7.6 E-09	6.4 E-09	5.2 E-09
		S	0.020	2.8 E-08	0.010	2.2 E-08	1.3 E-08	9.5 E-09	8.1 E-09	6.6 E-09
Ir-192m	2.41 E+02a	F	0.020	2.7 E-08	0.010	2.3 E-08	1.4 E-08	8.2 E-09	5.4 E-09	4.8 E-09
		M	0.020	2.3 E-08	0.010	2.1 E-08	1.3 E-08	8.4 E-09	6.6 E-09	5.8 E-09
		S	0.020	9.2 E-08	0.010	9.1 E-08	6.5 E-08	4.5 E-08	4.0 E-08	3.9 E-08
Ir-193m	11.9 d	F	0.020	1.2 E-09	0.010	8.4 E-10	3.7 E-10	2.2 E-10	1.2 E-10	1.0 E-10
		M	0.020	4.8 E-09	0.010	3.5 E-09	2.1 E-09	1.5 E-09	1.4 E-09	1.1 E-09
		S	0.020	5.4 E-09	0.010	4.0 E-09	2.4 E-09	1.8 E-09	1.6 E-09	1.3 E-09
Ir-194	19.1 h	F	0.020	2.9 E-09	0.010	1.9 E-09	8.1 E-10	4.9 E-10	2.5 E-10	2.1 E-10
		M	0.020	5.3 E-09	0.010	3.5 E-09	1.6 E-09	1.0 E-09	6.3 E-10	5.2 E-10

Ir-194m	171 d	S	0.020	5.5 E-09	0.010	3.7 E-09	1.7 E-09	1.1 E-09	6.7 E-10	5.6 E-10
		F	0.020	3.4 E-08	0.010	2.7 E-08	1.4 E-08	9.5 E-09	6.2 E-09	5.4 E-09
		M	0.020	3.9 E-08	0.010	3.2 E-08	1.9 E-08	1.3 E-08	1.1 E-08	9.0 E-09
Ir-195	2.50 h	S	0.020	5.0 E-08	0.010	4.2 E-08	2.6 E-08	1.8 E-08	1.5 E-08	1.3 E-08
		F	0.020	2.9 E-10	0.010	1.9 E-10	8.1 E-11	5.1 E-11	2.9 E-11	2.4 E-11
		M	0.020	5.4 E-10	0.010	3.6 E-10	1.7 E-10	1.1 E-10	8.1 E-11	6.7 E-11
Ir-195m	3.80 h	S	0.020	5.7 E-10	0.010	3.8 E-10	1.8 E-10	1.2 E-10	8.7 E-11	7.1 E-11
		F	0.020	6.9 E-10	0.010	4.8 E-10	2.1 E-10	1.3 E-10	7.2 E-11	6.0 E-11
		M	0.020	1.2 E-09	0.010	8.6 E-10	4.2 E-10	2.7 E-10	1.9 E-10	1.6 E-10
		S	0.020	1.3 E-09	0.010	9.0 E-10	4.4 E-10	2.9 E-10	2.0 E-10	1.7 E-10
Platina										
Pt-186	2.00 h	F	0.020	3.0 E-10	0.010	2.4 E-10	1.2 E-10	7.2 E-11	4.1 E-11	3.3 E-11
Pt-188	10.2 d	F	0.020	3.6 E-09	0.010	2.7 E-09	1.3 E-09	8.4 E-10	5.0 E-10	4.2 E-10
Pt-189	10.9 h	F	0.020	3.8 E-10	0.010	2.9 E-10	1.4 E-10	8.4 E-11	4.7 E-11	3.8 E-11
Pt-191	2.80 d	F	0.020	1.1 E-09	0.010	7.9 E-10	3.7 E-10	2.3 E-10	1.3 E-10	1.1 E-10
Pt-193	50.0 a	F	0.020	2.2 E-10	0.010	1.6 E-10	7.2 E-11	4.3 E-11	2.5 E-11	2.1 E-11
Pt-193m	4.33 d	F	0.020	1.6 E-09	0.010	1.0 E-09	4.5 E-10	2.7 E-10	1.4 E-10	1.2 E-10
Pt-195m	4.02 d	F	0.020	2.2 E-09	0.010	1.5 E-09	6.4 E-10	3.9 E-10	2.1 E-10	1.8 E-10
Pt-197	18.3 h	F	0.020	1.1 E-09	0.010	7.3 E-10	3.1 E-10	1.9 E-10	1.0 E-10	8.5 E-11
Pt-197m	1.57 h	F	0.020	2.8 E-10	0.010	1.8 E-10	7.9 E-11	4.9 E-11	2.8 E-11	2.4 E-11
Pt-199	0.513 h	F	0.020	1.3 E-10	0.010	8.3 E-11	3.6 E-11	2.3 E-11	1.4 E-11	1.2 E-11
Pt-200	12.5 h	F	0.020	2.6 E-09	0.010	1.7 E-09	7.2 E-10	5.1 E-10	2.6 E-10	2.2 E-10
Zlato										
Au-193	17.6 h	F	0.200	3.7 E-10	0.100	2.8 E-10	1.3 E-10	7.9 E-11	4.3 E-11	3.6 E-11
		M	0.200	7.5 E-10	0.100	5.6 E-10	2.8 E-10	1.9 E-10	1.4 E-10	1.1 E-10
		S	0.200	7.9 E-10	0.100	5.9 E-10	3.0 E-10	2.0 E-10	1.5 E-10	1.2 E-10
Au-194	1.65 d	F	0.200	1.2 E-09	0.100	9.6 E-10	4.9 E-10	3.0 E-10	1.8 E-10	1.4 E-10
		M	0.200	1.7 E-09	0.100	1.4 E-09	7.1 E-10	4.6 E-10	2.9 E-10	2.3 E-10
		S	0.200	1.7 E-09	0.100	1.4 E-09	7.3 E-10	4.7 E-10	3.0 E-10	2.4 E-10
Au-195	183 d	F	0.200	7.2 E-10	0.100	5.3 E-10	2.5 E-10	1.5 E-10	8.1 E-11	6.6 E-11
		M	0.200	5.2 E-09	0.100	4.1 E-09	2.4 E-09	1.6 E-09	1.4 E-09	1.1 E-09
		S	0.200	8.1 E-09	0.100	6.6 E-09	3.9 E-09	2.6 E-09	2.1 E-09	1.7 E-09
Au-198	2.69 d	F	0.200	2.4 E-09	0.100	1.7 E-09	7.6 E-10	4.7 E-10	2.5 E-10	2.1 E-10
		M	0.200	5.0 E-09	0.100	4.1 E-09	1.9 E-09	1.3 E-09	9.7 E-10	7.8 E-10
		S	0.200	5.4 E-09	0.100	4.4 E-09	2.0 E-09	1.4 E-09	1.1 E-09	8.6 E-10
Au-198m	2.30 d	F	0.200	3.3 E-09	0.100	2.4 E-09	1.1 E-09	6.9 E-10	3.7 E-10	3.2 E-10
		M	0.200	8.7 E-09	0.100	6.5 E-09	3.6 E-09	2.6 E-09	2.2 E-09	1.8 E-09
		S	0.200	9.5 E-09	0.100	7.1 E-09	4.0 E-09	2.9 E-09	2.5 E-09	2.0 E-09
Au-199	3.14 d	F	0.200	1.1 E-09	0.100	7.9 E-10	3.5 E-10	2.2 E-10	1.1 E-10	9.8 E-11
		M	0.200	3.4 E-09	0.100	2.5 E-09	1.4 E-09	1.0 E-09	9.0 E-10	7.1 E-10
		S	0.200	3.8 E-09	0.100	2.8 E-09	1.6 E-09	1.2 E-09	1.0 E-09	7.9 E-10
Au-200	0.807 h	F	0.200	1.9 E-10	0.100	1.2 E-10	5.2 E-11	3.2 E-11	1.9 E-11	1.6 E-11
		M	0.200	3.2 E-10	0.100	2.1 E-10	9.3 E-11	6.0 E-11	4.0 E-11	3.3 E-11
		S	0.200	3.4 E-10	0.100	2.1 E-10	9.8 E-11	6.3 E-11	4.2 E-11	3.5 E-11
Au-200m	18.7 h	F	0.200	2.7 E-09	0.100	2.1 E-09	1.0 E-09	6.4 E-10	3.6 E-10	2.9 E-10
		M	0.200	4.8 E-09	0.100	3.7 E-09	1.9 E-09	1.2 E-09	8.4 E-10	6.8 E-10
		S	0.200	5.1 E-09	0.100	3.9 E-09	2.0 E-09	1.3 E-09	8.9 E-10	7.2 E-10
Au-201	0.440 h	F	0.200	9.0 E-11	0.100	5.7 E-11	2.5 E-11	1.6 E-11	1.0 E-11	8.7 E-12
		M	0.200	1.5 E-10	0.100	9.6 E-11	4.3 E-11	2.9 E-11	2.0 E-11	1.7 E-11
		S	0.200	1.5 E-10	0.100	1.0 E-10	4.5 E-11	3.0 E-11	2.1 E-11	1.7 E-11

Živa										
Hg-193 (organska)	3.50 h	F	0.800	2.2 E-10	0.400	1.8 E-10	8.2 E-11	5.0 E-11	2.9 E-11	2.4 E-11
Hg-193 (anorganska)	3.50 h	F	0.040	2.7 E-10	0.020	2.0 E-10	8.9 E-11	5.5 E-11	3.1 E-11	2.6 E-11
		M	0.040	5.3 E-10	0.020	3.8 E-10	1.9 E-10	1.3 E-10	9.2 E-11	7.5 E-11
Hg-193m (organska)	11.1 h	F	0.800	8.4 E-10	0.400	7.6 E-10	3.7 E-10	2.2 E-10	1.3 E-10	1.0 E-10
Hg-193m (anorganska)	11.1 h	F	0.040	1.1 E-09	0.020	8.5 E-10	4.1 E-10	2.5 E-10	1.4 E-10	1.1 E-10
		M	0.040	1.9 E-09	0.020	1.4 E-09	7.2 E-10	4.7 E-10	3.2 E-10	2.6 E-10
Hg-194 (organska)	2.60 E+02a	F	0.800	4.9 E-08	0.400	3.7 E-08	2.4 E-08	1.9 E-08	1.5 E-08	1.4 E-08
Hg-194 (anorganska)	2.60 E+02a	F	0.040	3.2 E-08	0.020	2.9 E-08	2.0 E-08	1.6 E-08	1.4 E-08	1.3 E-08
		M	0.040	2.1 E-08	0.020	1.9 E-08	1.3 E-08	1.0 E-08	8.9 E-09	8.3 E-09
Hg-195 (organska)	9.90 h	F	0.800	2.0 E-10	0.400	1.8 E-10	8.5 E-11	5.1 E-11	2.8 E-11	2.3 E-11
Hg-195 (anorganska)	9.90 h	F	0.040	2.7 E-10	0.020	2.0 E-10	9.5 E-11	5.7 E-11	3.1 E-11	2.5 E-11
		M	0.040	5.3 E-10	0.020	3.9 E-10	2.0 E-10	1.3 E-10	9.0 E-11	7.3 E-11
Hg-195m (organska)	1.73 d	F	0.800	1.1 E-09	0.400	9.7 E-10	4.4 E-10	2.7 E-10	1.4 E-10	1.2 E-10
Hg-195m (anorganska)	1.73 d	F	0.040	1.6 E-09	0.020	1.1 E-09	5.1 E-10	3.1 E-10	1.7 E-10	1.4 E-10
		M	0.040	3.7 E-09	0.020	2.6 E-09	1.4 E-09	8.5 E-10	6.7 E-10	5.3 E-10
Hg-197 (organska)	2.67 d	F	0.800	4.7 E-10	0.400	4.0 E-10	1.8 E-10	1.1 E-10	5.8 E-11	4.7 E-11
Hg-197 (anorganska)	2.67 d	F	0.040	6.8 E-10	0.020	4.7 E-10	2.1 E-10	1.3 E-10	6.8 E-11	5.6 E-11
		M	0.040	1.7 E-09	0.020	1.2 E-09	6.6 E-10	4.6 E-10	3.8 E-10	3.0 E-10
Hg-197m (organska)	23.8 h	F	0.800	9.3 E-10	0.400	7.8 E-10	3.4 E-10	2.1 E-10	1.1 E-10	9.6 E-11
Hg-197m (anorganska)	23.8 h	F	0.040	1.4 E-09	0.020	9.3 E-10	4.0 E-10	2.5 E-10	1.3 E-10	1.1 E-10
		M	0.040	3.5 E-09	0.020	2.5 E-09	1.1 E-09	8.2 E-10	6.7 E-10	5.3 E-10
Hg-199m (organska)	0.710 h	F	0.800	1.4 E-10	0.400	9.6 E-11	4.2 E-11	2.7 E-11	1.7 E-11	1.5 E-11
Hg-199m (anorganska)	0.710 h	F	0.040	1.4 E-10	0.020	9.6 E-11	4.2 E-11	2.7 E-11	1.7 E-11	1.5 E-11
		M	0.040	2.5 E-10	0.020	1.7 E-10	7.9 E-11	5.4 E-11	3.8 E-11	3.2 E-11
Hg-203 (organska)	46.6 d	F	0.800	5.7 E-09	0.400	3.7 E-09	1.7 E-09	1.1 E-09	6.6 E-10	5.6 E-10
Hg-203 (anorganska)	46.6 d	F	0.040	4.2 E-09	0.020	2.9 E-09	1.4 E-09	9.0 E-10	5.5 E-10	4.6 E-10
		M	0.040	1.0 E-08	0.020	7.9 E-09	4.7 E-09	3.4 E-09	3.0 E-09	2.4 E-09
Talij										
Tl-194	0.550 h	F	1.000	3.6 E-11	1.000	3.0 E-11	1.5 E-11	9.2 E-12	5.5 E-12	4.4 E-12
Tl-194m	0.546 h	F	1.000	1.7 E-10	1.000	1.2 E-10	6.1 E-11	3.8 E-11	2.3 E-11	1.9 E-11
Tl-195	1.16 h	F	1.000	1.3 E-10	1.000	1.0 E-10	5.3 E-11	3.2 E-11	1.9 E-11	1.5 E-11
Tl-197	2.84 h	F	1.000	1.3 E-10	1.000	9.7 E-11	4.7 E-11	2.9 E-11	1.7 E-11	1.4 E-11
Tl-198	5.30 h	F	1.000	4.7 E-10	1.000	4.0 E-10	2.1 E-10	1.3 E-10	7.5 E-11	6.0 E-11
Tl-198m	1.87 h	F	1.000	3.2 E-10	1.000	2.5 E-10	1.2 E-10	7.5 E-11	4.5 E-11	3.7 E-11
Tl-199	7.42 h	F	1.000	1.7 E-10	1.000	1.3 E-10	6.4 E-11	3.9 E-11	2.3 E-11	1.9 E-11
Tl-200	1.09 d	F	1.000	1.0 E-09	1.000	8.7 E-10	4.6 E-10	2.8 E-10	1.6 E-10	1.3 E-10
Tl-201	3.04 d	F	1.000	4.5 E-10	1.000	3.3 E-10	1.5 E-10	9.4 E-11	5.4 E-11	4.4 E-11
Tl-202	12.2 d	F	1.000	1.5 E-09	1.000	1.2 E-09	5.9 E-10	3.8 E-10	2.3 E-10	1.9 E-10
Tl-204	3.78 a	F	1.000	5.0 E-09	1.000	3.3 E-09	1.5 E-09	8.8 E-10	4.7 E-10	3.9 E-10
Olovo										
Pb-195m	0.263 h	F	0.600	1.3 E-10	0.200	1.0 E-10	4.9 E-11	3.1 E-11	1.9 E-11	1.6 E-11

Pb-198	2.40 h	M	0.200	2.0 E-10	0.100	1.5 E-10	7.1 E-11	4.6 E-11	3.1 E-11	2.5 E-11
		S	0.020	2.1 E-10	0.010	1.5 E-10	7.4 E-11	4.8 E-11	3.2 E-11	2.7 E-11
		F	0.600	3.4 E-10	0.200	2.9 E-10	1.5 E-10	8.9 E-11	5.2 E-11	4.3 E-11
Pb-199	1.50 h	M	0.200	5.0 E-10	0.100	4.0 E-10	2.1 E-10	1.3 E-10	8.3 E-11	6.6 E-11
		S	0.020	5.4 E-10	0.010	4.2 E-10	2.2 E-10	1.4 E-10	8.7 E-11	7.0 E-11
		F	0.600	1.9 E-10	0.200	1.6 E-10	8.2 E-11	4.9 E-11	2.9 E-11	2.3 E-11
Pb-200	21.5 h	M	0.200	2.8 E-10	0.100	2.2 E-10	1.1 E-10	7.1 E-11	4.5 E-11	3.6 E-11
		S	0.020	2.9 E-10	0.010	2.3 E-10	1.2 E-10	7.4 E-11	4.7 E-11	3.7 E-11
		F	0.600	1.1 E-09	0.200	9.3 E-10	4.6 E-10	2.8 E-10	1.6 E-10	1.4 E-10
Pb-201	9.40 h	M	0.200	2.2 E-09	0.100	1.7 E-09	8.6 E-10	5.7 E-10	4.1 E-10	3.3 E-10
		S	0.020	2.4 E-09	0.010	1.8 E-09	9.2 E-10	6.2 E-10	4.4 E-10	3.5 E-10
		F	0.600	4.8 E-10	0.200	4.1 E-10	2.0 E-10	1.2 E-10	7.1 E-11	6.0 E-11
Pb-202	3.00 E+05a	M	0.200	8.0 E-10	0.100	6.4 E-10	3.3 E-10	2.1 E-10	1.4 E-10	1.1 E-10
		S	0.020	8.8 E-10	0.010	6.7 E-10	3.5 E-10	2.2 E-10	1.5 E-10	1.2 E-10
		F	0.600	1.9 E-08	0.200	1.3 E-08	8.9 E-09	1.3 E-08	1.8 E-08	1.1 E-08
Pb-202m	3.62 h	M	0.200	1.2 E-08	0.100	8.9 E-09	6.2 E-09	6.7 E-09	8.7 E-09	6.3 E-09
		S	0.020	2.8 E-08	0.010	2.8 E-08	2.0 E-08	1.4 E-08	1.3 E-08	1.2 E-08
		F	0.600	4.7 E-10	0.200	4.0 E-10	2.1 E-10	1.3 E-10	7.5 E-11	6.2 E-11
Pb-203	2.17 d	M	0.200	6.9 E-10	0.100	5.6 E-10	2.9 E-10	1.9 E-10	1.2 E-10	9.5 E-11
		S	0.020	7.3 E-10	0.010	5.8 E-10	3.0 E-10	1.9 E-10	1.3 E-10	1.0 E-10
		F	0.600	7.2 E-10	0.200	5.8 E-10	2.8 E-10	1.7 E-10	9.9 E-11	8.5 E-11
Pb-205	1.43 E+07a	M	0.200	1.3 E-09	0.100	1.0 E-09	5.4 E-10	3.6 E-10	2.5 E-10	2.0 E-10
		S	0.020	1.5 E-09	0.010	1.1 E-09	5.8 E-10	3.8 E-10	2.8 E-10	2.2 E-10
		F	0.600	1.1 E-09	0.200	6.9 E-10	4.0 E-10	4.1 E-10	4.3 E-10	3.3 E-10
Pb-209	3.25 h	M	0.200	1.1 E-09	0.100	7.7 E-10	4.3 E-10	3.2 E-10	2.9 E-10	2.5 E-10
		S	0.020	2.9 E-09	0.010	2.7 E-09	1.7 E-09	1.1 E-09	9.2 E-10	8.5 E-10
		F	0.600	1.8 E-10	0.200	1.2 E-10	5.3 E-11	3.4 E-11	1.9 E-11	1.7 E-11
Pb-210	22.3 a	M	0.200	4.0 E-10	0.100	2.7 E-10	1.3 E-10	9.2 E-11	6.9 E-11	5.6 E-11
		S	0.020	4.4 E-10	0.010	2.9 E-10	1.4 E-10	9.9 E-11	7.5 E-11	6.1 E-11
		F	0.600	4.7 E-06	0.200	2.9 E-06	1.5 E-06	1.4 E-06	1.3 E-06	9.0 E-07
Pb-211	0.601 h	M	0.200	5.0 E-06	0.100	3.7 E-06	2.2 E-06	1.5 E-06	1.3 E-06	1.1 E-06
		S	0.020	1.8 E-05	0.010	1.8 E-05	1.1 E-05	7.2 E-06	5.9 E-06	5.6 E-06
		F	0.600	2.5 E-08	0.200	1.7 E-08	8.7 E-09	6.1 E-09	4.6 E-09	3.9 E-09
Pb-212	10.6 h	M	0.200	6.2 E-08	0.100	4.5 E-08	2.5 E-08	1.9 E-08	1.4 E-08	1.1 E-08
		S	0.020	6.6 E-08	0.010	4.8 E-08	2.7 E-08	2.0 E-08	1.5 E-08	1.2 E-08
		F	0.600	1.9 E-07	0.200	1.2 E-07	5.4 E-08	3.5 E-08	2.0 E-08	1.8 E-08
Pb-214	0.447 h	M	0.200	6.2 E-07	0.100	4.6 E-07	3.0 E-07	2.2 E-07	2.2 E-07	1.7 E-07
		S	0.020	6.7 E-07	0.010	5.0 E-07	3.3 E-07	2.5 E-07	2.4 E-07	1.9 E-07
		F	0.600	2.2 E-08	0.200	1.5 E-08	6.9 E-09	4.8 E-09	3.3 E-09	2.8 E-09
Bizmut	0.606 h	M	0.200	6.4 E-08	0.100	4.6 E-08	2.6 E-08	1.9 E-08	1.4 E-08	1.4 E-08
		S	0.020	6.9 E-08	0.010	5.0 E-08	2.8 E-08	2.1 E-08	1.5 E-08	1.5 E-08
		F	0.100	1.9 E-10	0.050	1.5 E-10	7.4 E-11	4.5 E-11	2.7 E-11	2.2 E-11
Bi-200	1.80 h	M	0.100	2.5 E-10	0.050	1.9 E-10	9.9 E-11	6.3 E-11	4.1 E-11	3.3 E-11
		F	0.100	4.0 E-10	0.050	3.1 E-10	1.5 E-10	9.3 E-11	5.4 E-11	4.4 E-11
Bi-201	1.67 h	M	0.100	5.5 E-10	0.050	4.1 E-10	2.0 E-10	1.3 E-10	8.3 E-11	6.6 E-11
		F	0.100	3.4 E-10	0.050	2.8 E-10	1.5 E-10	9.0 E-11	5.3 E-11	4.3 E-11
Bi-202	11.8 h	M	0.100	4.2 E-10	0.050	3.4 E-10	1.8 E-10	1.1 E-10	6.9 E-11	5.5 E-11
		F	0.100	1.5 E-09	0.050	1.2 E-09	6.4 E-10	4.0 E-10	2.3 E-10	1.9 E-10
Bi-203	15.3 d	M	0.100	2.0 E-09	0.050	1.6 E-09	8.2 E-10	5.3 E-10	3.3 E-10	2.6 E-10
		F	0.100	3.0 E-09	0.050	2.4 E-09	1.3 E-09	8.0 E-10	4.7 E-10	3.8 E-10

Bi-206	6.24 d	M	0.100	5.5 E-09	0.050	4.4 E-09	2.5 E-09	1.6 E-09	1.2 E-09	9.3 E-10
		F	0.100	6.1 E-09	0.050	4.8 E-09	2.5 E-09	1.6 E-09	9.1 E-10	7.4 E-10
		M	0.100	1.0 E-08	0.050	8.0 E-09	4.4 E-09	2.9 E-09	2.1 E-09	1.7 E-09
Bi-207	38.0 a	F	0.100	4.3 E-09	0.050	3.3 E-09	1.7 E-09	1.0 E-09	6.0 E-10	4.9 E-10
		M	0.100	2.3 E-08	0.050	2.0 E-08	1.2 E-08	8.2 E-09	6.5 E-09	5.6 E-09
Bi-210	5.01 d	F	0.100	1.1 E-08	0.050	6.9 E-09	3.2 E-09	2.1 E-09	1.3 E-09	1.1 E-09
		M	0.100	3.9 E-07	0.050	3.0 E-07	1.9 E-07	1.3 E-07	1.1 E-07	9.3 E-08
Bi-210m	3.00 E+06a	F	0.100	4.1 E-07	0.050	2.6 E-07	1.3 E-07	8.3 E-08	5.6 E-08	4.6 E-08
		M	0.100	1.5 E-05	0.050	1.1 E-05	7.0 E-06	4.8 E-06	4.1 E-06	3.4 E-06
Bi-212	1.01 h	F	0.100	6.5 E-08	0.050	4.5 E-08	2.1 E-08	1.5 E-08	1.0 E-08	9.1 E-09
		M	0.100	1.6 E-07	0.050	1.1 E-07	6.0 E-08	4.4 E-08	3.8 E-08	3.1 E-08
Bi-213	0.761 h	F	0.100	7.7 E-08	0.050	5.3 E-08	2.5 E-08	1.7 E-08	1.2 E-08	1.0 E-08
		M	0.100	1.6 E-07	0.050	1.2 E-07	6.0 E-08	4.4 E-08	3.6 E-08	3.0 E-08
Bi-214	0.332 h	F	0.100	5.0 E-08	0.050	3.5 E-08	1.6 E-08	1.1 E-08	8.2 E-09	7.1 E-09
		M	0.100	8.7 E-08	0.050	6.1 E-08	3.1 E-08	2.2 E-08	1.7 E-08	1.4 E-08
Polonij										
Po-203	0.612 h	F	0.200	1.9 E-10	0.100	1.5 E-10	7.7 E-11	4.7 E-11	2.8 E-11	2.3 E-11
		M	0.200	2.7 E-10	0.100	2.1 E-10	1.1 E-10	6.7 E-11	4.3 E-11	3.5 E-11
		S	0.020	2.8 E-10	0.010	2.2 E-10	1.1 E-10	7.0 E-11	4.5 E-11	3.6 E-11
Po-205	1.80 h	F	0.200	2.6 E-10	0.100	2.1 E-10	1.1 E-10	6.6 E-11	4.1 E-11	3.3 E-11
		M	0.200	4.0 E-10	0.100	3.1 E-10	1.7 E-10	1.1 E-10	8.1 E-11	6.5 E-11
Po-207	5.83 h	S	0.020	4.2 E-10	0.010	3.2 E-10	1.8 E-10	1.2 E-10	8.5 E-11	6.9 E-11
		F	0.200	4.8 E-10	0.100	4.0 E-10	2.1 E-10	1.3 E-10	7.3 E-11	5.8 E-11
Po-210	138 d	M	0.200	6.2 E-10	0.100	5.1 E-10	2.6 E-10	1.6 E-10	9.9 E-11	7.8 E-11
		S	0.020	6.6 E-10	0.010	5.3 E-10	2.7 E-10	1.7 E-10	1.0 E-10	8.2 E-11
Po-210	138 d	F	0.200	7.4 E-06	0.100	4.8 E-06	2.2 E-06	1.3 E-06	7.7 E-07	6.1 E-07
		M	0.200	1.5 E-05	0.100	1.1 E-05	6.7 E-06	4.6 E-06	4.0 E-06	3.3 E-06
		S	0.020	1.8 E-05	0.010	1.4 E-05	8.6 E-06	5.9 E-06	5.1 E-06	4.3 E-06
Astacij										
At-207	1.80 h	F	1.000	2.4 E-09	1.000	1.7 E-09	8.9 E-10	5.9 E-10	4.0 E-10	3.3 E-10
		M	1.000	9.2 E-09	1.000	6.7 E-09	4.3 E-09	3.1 E-09	2.9 E-09	2.3 E-09
At-211	7.21 h	F	1.000	1.4 E-07	1.000	9.7 E-08	4.3 E-08	2.8 E-08	1.7 E-08	1.6 E-08
		M	1.000	5.2 E-07	1.000	3.7 E-07	1.9 E-07	1.4 E-07	1.3 E-07	1.1 E-07
Francij										
Fr-222	0.240 h	F	1.000	9.1 E-08	1.000	6.3 E-08	3.0 E-08	2.1 E-08	1.6 E-08	1.4 E-08
Fr-223	0.363 h	F	1.000	1.1 E-08	1.000	7.3 E-09	3.2 E-09	1.9 E-09	1.0 E-09	8.9 E-10
Radij										
Ra-223	11.4 d	F	0.600	3.0 E-06	0.200	1.0 E-06	4.9 E-07	4.0 E-07	3.3 E-07	1.2 E-07
		M	0.200	2.8 E-05	0.100	2.1 E-05	1.3 E-05	9.9 E-06	9.4 E-06	7.4 E-06
		S	0.020	3.2 E-05	0.010	2.4 E-05	1.5 E-05	1.1 E-05	1.1 E-05	8.7 E-06
Ra-224	3.66 d	F	0.600	1.5 E-06	0.200	6.0 E-07	2.9 E-07	2.2 E-07	1.7 E-07	7.5 E-08
		M	0.200	1.1 E-05	0.100	8.2 E-06	5.3 E-06	3.9 E-06	3.7 E-06	3.0 E-06
Ra-225	14.8 d	S	0.020	1.2 E-05	0.010	9.2 E-06	5.9 E-06	4.4 E-06	4.2 E-06	3.4 E-06
		F	0.600	4.0 E-06	0.200	1.2 E-06	5.6 E-07	4.6 E-07	3.8 E-07	1.3 E-07
Ra-226	1.60 E+03a	M	0.200	2.4 E-05	0.100	1.8 E-05	1.1 E-05	8.4 E-06	7.9 E-06	6.3 E-06
		S	0.020	2.8 E-05	0.010	2.2 E-05	1.4 E-05	1.0 E-05	9.8 E-06	7.7 E-06
		F	0.600	2.6 E-06	0.200	9.4 E-07	5.5 E-07	7.2 E-07	1.3 E-06	3.6 E-07
		M	0.200	1.5 E-05	0.100	1.1 E-05	7.0 E-06	4.9 E-06	4.5 E-06	3.5 E-06

Ra-227	0.703 h	S	0.020	3.4 E-05	0.010	2.9 E-05	1.9 E-05	1.2 E-05	1.0 E-05	9.5 E-06	
		F	0.600	1.5 E-09	0.200	1.2 E-09	7.8 E-10	6.1 E-10	5.3 E-10	4.6 E-10	
		M	0.200	8.0 E-10	0.100	6.7 E-10	4.4 E-10	3.2 E-10	2.9 E-10	2.8 E-10	
Ra-228	5.75 a	S	0.020	1.0 E-09	0.010	8.5 E-10	4.4 E-10	2.9 E-10	2.4 E-10	2.2 E-10	
		F	0.600	1.7 E-05	0.200	5.7 E-06	3.1 E-06	3.6 E-06	4.6 E-06	9.0 E-07	
		M	0.200	1.5 E-05	0.100	1.0 E-05	6.3 E-06	4.6 E-06	4.4 E-06	2.6 E-06	
Aktinij	Ac-224	2.90 h	S	0.020	4.9 E-05	0.010	4.8 E-05	3.2 E-05	2.0 E-05	1.6 E-05	1.6 E-05
			F	0.005	1.3 E-07	5.0 E-04	8.9 E-08	4.7 E-08	3.1 E-08	1.4 E-08	1.1 E-08
			M	0.005	4.2 E-07	5.0 E-04	3.2 E-07	2.0 E-07	1.5 E-07	1.4 E-07	1.1 E-07
Ac-225	10.0 d	S	0.005	4.6 E-07	5.0 E-04	3.5 E-07	2.2 E-07	1.7 E-07	1.6 E-07	1.3 E-07	
		F	0.005	1.1 E-05	5.0 E-04	7.7 E-06	4.0 E-06	2.6 E-06	1.1 E-06	8.8 E-07	
		M	0.005	2.8 E-05	5.0 E-04	2.1 E-05	1.3 E-05	1.0 E-05	9.3 E-06	7.4 E-06	
Ac-226	1.21 d	S	0.005	3.1 E-05	5.0 E-04	2.3 E-05	1.5 E-05	1.1 E-05	1.1 E-05	8.5 E-06	
		F	0.005	1.5 E-06	5.0 E-04	1.1 E-06	4.0 E-07	2.6 E-07	1.2 E-07	9.6 E-08	
		M	0.005	4.3 E-06	5.0 E-04	3.2 E-06	2.1 E-06	1.5 E-06	1.5 E-06	1.2 E-06	
Ac-227	21.8 a	S	0.005	4.7 E-06	5.0 E-04	3.5 E-06	2.3 E-06	1.7 E-06	1.6 E-06	1.3 E-06	
		F	0.005	1.7 E-03	5.0 E-04	1.6 E-03	1.0 E-03	7.2 E-04	5.6 E-04	5.5 E-04	
		M	0.005	5.7 E-04	5.0 E-04	5.5 E-04	3.9 E-04	2.6 E-04	2.3 E-04	2.2 E-04	
Ac-228	6.13 h	S	0.005	2.2 E-04	5.0 E-04	2.0 E-04	1.3 E-04	8.7 E-05	7.6 E-05	7.2 E-05	
		F	0.005	1.8 E-07	5.0 E-04	1.6 E-07	9.7 E-08	5.7 E-08	2.9 E-08	2.5 E-08	
		M	0.005	8.4 E-08	5.0 E-04	7.3 E-08	4.7 E-08	2.9 E-08	2.0 E-08	1.7 E-08	
Torij	Th-226	0.515 h	S	0.005	6.4 E-08	5.0 E-04	5.3 E-08	3.3 E-08	2.2 E-08	1.9 E-08	1.6 E-08
			F	0.005	1.4 E-07	5.0 E-04	1.0 E-07	4.8 E-08	3.4 E-08	2.5 E-08	2.2 E-08
			M	0.005	3.0 E-07	5.0 E-04	2.1 E-07	1.1 E-07	8.3 E-08	7.0 E-08	5.8 E-08
Th-227	18.7 d	S	0.005	3.1 E-07	5.0 E-04	2.2 E-07	1.2 E-07	8.8 E-08	7.5 E-08	6.1 E-08	
		F	0.005	8.4 E-06	5.0 E-04	5.2 E-06	2.6 E-06	1.6 E-06	1.0 E-06	6.7 E-07	
		M	0.005	3.2 E-05	5.0 E-04	2.5 E-05	1.6 E-05	1.1 E-05	1.1 E-05	8.5 E-06	
Th-228	1.91 a	S	0.005	3.9 E-05	5.0 E-04	3.0 E-05	1.9 E-05	1.4 E-05	1.3 E-05	1.0 E-05	
		F	0.005	1.8 E-04	5.0 E-04	1.5 E-04	8.3 E-05	5.2 E-05	3.6 E-05	2.9 E-05	
		M	0.005	1.3 E-04	5.0 E-04	1.1 E-04	6.8 E-05	4.6 E-05	3.9 E-05	3.2 E-05	
Th-229	7.34 E+03a	S	0.005	1.6 E-04	5.0 E-04	1.3 E-04	8.2 E-05	5.5 E-05	4.7 E-05	4.0 E-05	
		F	0.005	5.4 E-04	5.0 E-04	5.1 E-04	3.6 E-04	2.9 E-04	2.4 E-04	2.4 E-04	
		M	0.005	2.3 E-04	5.0 E-04	2.1 E-04	1.6 E-04	1.2 E-04	1.1 E-04	1.1 E-04	
Th-230	7.70 E+04a	S	0.005	2.1 E-04	5.0 E-04	1.9 E-04	1.3 E-04	8.7 E-05	7.6 E-05	7.1 E-05	
		F	0.005	2.1 E-04	5.0 E-04	2.0 E-04	1.4 E-04	1.1 E-04	9.9 E-05	1.0 E-04	
		M	0.005	7.7 E-05	5.0 E-04	7.4 E-05	5.5 E-05	4.3 E-05	4.2 E-05	4.3 E-05	
Th-231	1.06 d	S	0.005	4.0 E-05	5.0 E-04	3.5 E-05	2.4 E-05	1.6 E-05	1.5 E-05	1.4 E-05	
		F	0.005	1.1 E-09	5.0 E-04	7.2 E-10	2.6 E-10	1.6 E-10	9.2 E-11	7.8 E-11	
		M	0.005	2.2 E-09	5.0 E-04	1.6 E-09	8.0 E-10	4.8 E-10	3.8 E-10	3.1 E-10	
Th-232	1.40 E+10a	S	0.005	2.4 E-09	5.0 E-04	1.7 E-09	7.6 E-10	5.2 E-10	4.1 E-10	3.3 E-10	
		F	0.005	2.3 E-04	5.0 E-04	2.2 E-04	1.6 E-04	1.3 E-04	1.2 E-04	1.1 E-04	
		M	0.005	8.3 E-05	5.0 E-04	8.1 E-05	6.3 E-05	5.0 E-05	4.7 E-05	4.5 E-05	
Th-234	24.1 d	S	0.005	5.4 E-05	5.0 E-04	5.0 E-05	3.7 E-05	2.6 E-05	2.5 E-05	2.5 E-05	
		F	0.005	4.0 E-08	5.0 E-04	2.5 E-08	1.1 E-08	6.1 E-09	3.5 E-09	2.5 E-09	
		M	0.005	3.9 E-08	5.0 E-04	2.9 E-08	1.5 E-08	1.0 E-08	7.9 E-09	6.6 E-09	
Protaktinij	Pa-227	0.638 h	S	0.005	4.1 E-08	5.0 E-04	3.1 E-08	1.7 E-08	1.1 E-08	9.1 E-09	7.7 E-09
			M	0.005	3.6 E-07	5.0 E-04	2.6 E-07	1.4 E-07	1.0 E-07	9.0 E-08	7.4 E-08
			S	0.005	3.8 E-07	5.0 E-04	2.8 E-07	1.5 E-07	1.1 E-07	8.1 E-08	8.0 E-08

Pa-228	22.0 h	M	0.005	2.6 E-07	5.0 E-04	2.1 E-07	1.3 E-07	8.8 E-08	7.7 E-08	6.4 E-08
		S	0.005	2.9 E-07	5.0 E-04	2.4 E-07	1.5 E-07	1.0 E-07	9.1 E-08	7.5 E-08
Pa-230	17.4 d	M	0.005	2.4 E-06	5.0 E-04	1.8 E-06	1.1 E-06	8.3 E-07	7.6 E-07	6.1 E-07
		S	0.005	2.9 E-06	5.0 E-04	2.2 E-06	1.4 E-06	1.0 E-06	9.6 E-07	7.6 E-07
Pa-231	3.27 E+04a	M	0.005	2.2 E-04	5.0 E-04	2.3 E-04	1.9 E-04	1.5 E-04	1.5 E-04	1.4 E-04
		S	0.005	7.4 E-05	5.0 E-04	6.9 E-05	5.2 E-05	3.9 E-05	3.6 E-05	3.4 E-05
Pa-232	1.31 d	M	0.005	1.9 E-08	5.0 E-04	1.8 E-08	1.4 E-08	1.1 E-08	1.0 E-08	1.0 E-08
		S	0.005	1.0 E-08	5.0 E-04	8.7 E-09	5.9 E-09	4.1 E-09	3.7 E-09	3.5 E-09
Pa-233	27.0 d	M	0.005	1.5 E-08	5.0 E-04	1.1 E-08	6.5 E-09	4.7 E-09	4.1 E-09	3.3 E-09
		S	0.005	1.7 E-08	5.0 E-04	1.3 E-08	7.5 E-09	5.5 E-09	4.9 E-09	3.9 E-09
Pa-234	6.70 h	M	0.005	2.8 E-09	5.0 E-04	2.0 E-09	1.0 E-09	6.8 E-10	4.7 E-10	3.8 E-10
		S	0.005	2.9 E-09	5.0 E-04	2.1 E-09	1.1 E-09	7.1 E-10	5.0 E-10	4.0 E-10
Uran										
U-230	20.8 d	F	0.040	3.2 E-06	0.020	1.5 E-06	7.2 E-07	5.4 E-07	4.1 E-07	3.8 E-07
		M	0.040	4.9 E-05	0.020	3.7 E-05	2.4 E-05	1.8 E-05	1.7 E-05	1.3 E-05
		S	0.020	5.8 E-05	0.002	4.4 E-05	2.8 E-05	2.1 E-05	2.0 E-05	1.6 E-05
U-231	4.20 d	F	0.040	8.9 E-10	0.020	6.2 E-10	3.1 E-10	1.4 E-10	1.0 E-10	6.2 E-11
		M	0.040	2.4 E-09	0.020	1.7 E-09	9.4 E-10	5.5 E-10	4.6 E-10	3.8 E-10
		S	0.020	2.6 E-09	0.002	1.9 E-09	9.0 E-10	6.1 E-10	4.9 E-10	4.0 E-10
U-232	72.0 a	F	0.040	1.6 E-05	0.020	1.0 E-05	6.9 E-06	6.8 E-06	7.5 E-06	4.0 E-06
		M	0.040	3.0 E-05	0.020	2.4 E-05	1.6 E-05	1.1 E-05	1.0 E-05	7.8 E-06
		S	0.020	1.0 E-04	0.002	9.7 E-05	6.6 E-05	4.3 E-05	3.8 E-05	3.7 E-05
U-233	1.58 E+05a	F	0.040	2.2 E-06	0.020	1.4 E-06	9.4 E-07	8.4 E-07	8.6 E-07	5.8 E-07
		M	0.040	1.5 E-05	0.020	1.1 E-05	7.2 E-06	4.9 E-06	4.3 E-06	3.6 E-06
		S	0.020	3.4 E-05	0.002	3.0 E-05	1.9 E-05	1.2 E-05	1.1 E-05	9.6 E-06
U-234	2.44 E+05a	F	0.040	2.1 E-06	0.020	1.4 E-06	9.0 E-07	8.0 E-07	8.2 E-07	5.6 E-07
		M	0.040	1.5 E-05	0.020	1.1 E-05	7.0 E-06	4.8 E-06	4.2 E-06	3.5 E-06
		S	0.020	3.3 E-05	0.002	2.9 E-05	1.9 E-05	1.2 E-05	1.0 E-05	9.4 E-06
U-235	7.04 E+08a	F	0.040	2.0 E-06	0.020	1.3 E-06	8.5 E-07	7.5 E-07	7.7 E-07	5.2 E-07
		M	0.040	1.3 E-05	0.020	1.0 E-05	6.3 E-06	4.3 E-06	3.7 E-06	3.1 E-06
		S	0.020	3.0 E-05	0.002	2.6 E-05	1.7 E-05	1.1 E-05	9.2 E-06	8.5 E-06
U-236	2.34 E+07a	F	0.040	2.0 E-06	0.020	1.3 E-06	8.5 E-07	7.5 E-07	7.8 E-07	5.3 E-07
		M	0.040	1.4 E-05	0.020	1.0 E-05	6.5 E-06	4.5 E-06	3.9 E-06	3.2 E-06
		S	0.020	3.1 E-05	0.002	2.7 E-05	1.8 E-05	1.1 E-05	9.5 E-06	8.7 E-06
U-237	6.75 d	F	0.040	1.8 E-09	0.020	1.5 E-09	6.6 E-10	4.2 E-10	1.9 E-10	1.8 E-10
		M	0.040	7.8 E-09	0.020	5.7 E-09	3.3 E-09	2.4 E-09	2.1 E-09	1.7 E-09
		S	0.020	8.7 E-09	0.002	6.4 E-09	3.7 E-09	2.7 E-09	2.4 E-09	1.9 E-09
U-238	4.47 E+09a	F	0.040	1.9 E-06	0.020	1.3 E-06	8.2 E-07	7.3 E-07	7.4 E-07	5.0 E-07
		M	0.040	1.2 E-05	0.020	9.4 E-06	5.9 E-06	4.0 E-06	3.4 E-06	2.9 E-06
		S	0.020	2.9 E-05	0.002	2.5 E-05	1.6 E-05	1.0 E-05	8.7 E-06	8.0 E-06
U-239	0.392 h	F	0.040	1.0 E-10	0.020	6.6 E-11	2.9 E-11	1.9 E-11	1.2 E-11	1.0 E-11
		M	0.040	1.8 E-10	0.020	1.2 E-10	5.6 E-11	3.8 E-11	2.7 E-11	2.2 E-11
		S	0.020	1.9 E-10	0.002	1.2 E-10	5.9 E-11	4.0 E-11	2.9 E-11	2.4 E-11
U-240	14.1 h	F	0.040	2.4 E-09	0.020	1.6 E-09	7.1 E-10	4.5 E-10	2.3 E-10	2.0 E-10
		M	0.040	4.6 E-09	0.020	3.1 E-09	1.7 E-09	1.1 E-09	6.5 E-10	5.3 E-10
		S	0.020	4.9 E-09	0.002	3.3 E-09	1.6 E-09	1.1 E-09	7.0 E-10	5.8 E-10
Neptunij										
Np-232	0.245 h	F	0.005	2.0 E-10	5.0 E-04	1.9 E-10	1.2 E-10	1.1 E-10	1.1 E-10	1.2 E-10
		M	0.005	8.9 E-11	5.0 E-04	8.1 E-11	5.5 E-11	4.5 E-11	4.7 E-11	5.0 E-11
		S	0.005	1.2 E-10	5.0 E-04	9.7 E-11	5.8 E-11	3.9 E-11	2.5 E-11	2.4 E-11

Np-233	0.603 h	F	0.005	1.1 E-11	5.0 E-04	8.7 E-12	4.2 E-12	2.5 E-12	1.4 E-12	1.1 E-12
		M	0.005	1.5 E-11	5.0 E-04	1.1 E-11	5.5 E-12	3.3 E-12	2.1 E-12	1.6 E-12
		S	0.005	1.5 E-11	5.0 E-04	1.2 E-11	5.7 E-12	3.4 E-12	2.1 E-12	1.7 E-12
Np-234	4.40 d	F	0.005	2.9 E-09	5.0 E-04	2.2 E-09	1.1 E-09	7.2 E-10	4.3 E-10	3.5 E-10
		M	0.005	3.8 E-09	5.0 E-04	3.0 E-09	1.6 E-09	1.0 E-09	6.5 E-10	5.3 E-10
		S	0.005	3.9 E-09	5.0 E-04	3.1 E-09	1.6 E-09	1.0 E-09	6.8 E-10	5.5 E-10
Np-235	1.08 a	F	0.005	4.2 E-09	5.0 E-04	3.5 E-09	1.9 E-09	1.1 E-09	7.5 E-10	6.3 E-10
		M	0.005	2.3 E-09	5.0 E-04	1.9 E-09	1.1 E-09	6.8 E-10	5.1 E-10	4.2 E-10
		S	0.005	2.6 E-09	5.0 E-04	2.2 E-09	1.3 E-09	8.3 E-10	6.3 E-10	5.2 E-10
Np-236	1.15E+05 a	F	0.005	8.9 E-06	5.0 E-04	9.1 E-06	7.2 E-06	7.5 E-06	7.9 E-06	8.0 E-06
		M	0.005	3.0 E-06	5.0 E-04	3.1 E-06	2.7 E-06	2.7 E-06	3.1 E-06	3.2 E-06
		S	0.005	1.6 E-06	5.0 E-04	1.6 E-06	1.3 E-06	1.0 E-06	1.0 E-06	1.0 E-06
Np-236	22.5 h	F	0.005	2.8 E-08	5.0 E-04	2.6 E-08	1.5 E-08	1.1 E-08	8.9 E-09	9.0 E-09
		M	0.005	1.6 E-08	5.0 E-04	1.4 E-08	8.9 E-09	6.2 E-09	5.6 E-09	5.3 E-09
		S	0.005	1.6 E-08	5.0 E-04	1.3 E-08	8.5 E-09	5.7 E-09	4.8 E-09	4.2 E-09
Np-237	2.14E+06 a	F	0.005	9.8 E-05	5.0 E-04	9.3 E-05	6.0 E-05	5.0 E-05	4.7 E-05	5.0 E-05
		M	0.005	4.4 E-05	5.0 E-04	4.0 E-05	2.8 E-05	2.2 E-05	2.2 E-05	2.3 E-05
		S	0.005	3.7 E-05	5.0 E-04	3.2 E-05	2.1 E-05	1.4 E-05	1.3 E-05	1.2 E-05
Np-238	2.12 d	F	0.005	9.0 E-09	5.0 E-04	7.9 E-09	4.8 E-09	3.7 E-09	3.3 E-09	3.5 E-09
		M	0.005	7.3 E-09	5.0 E-04	5.8 E-09	3.4 E-09	2.5 E-09	2.2 E-09	2.1 E-09
		S	0.005	8.1 E-09	5.0 E-04	6.2 E-09	3.2 E-09	2.1 E-09	1.7 E-09	1.5 E-09
Np-239	2.36 d	F	0.005	2.6 E-09	5.0 E-04	1.4 E-09	6.3 E-10	3.8 E-10	2.1 E-10	1.7 E-10
		M	0.005	5.9 E-09	5.0 E-04	4.2 E-09	2.0 E-09	1.4 E-09	1.2 E-09	9.3 E-10
		S	0.005	5.6 E-09	5.0 E-04	4.0 E-09	2.2 E-09	1.6 E-09	1.3 E-09	1.0 E-09
Np-240	1.08 h	F	0.005	3.6 E-10	5.0 E-04	2.6 E-10	1.2 E-10	7.7 E-11	4.7 E-11	4.0 E-11
		M	0.005	6.3 E-10	5.0 E-04	4.4 E-10	2.2 E-10	1.4 E-10	1.0 E-10	8.5 E-11
		S	0.005	6.5 E-10	5.0 E-04	4.6 E-10	2.3 E-10	1.5 E-10	1.1 E-10	9.0 E-11
Plutonij										
Pu-234	8.80 h	F	0.005	3.0 E-08	5.0 E-04	2.0 E-08	9.8 E-09	5.7 E-09	3.6 E-09	3.0 E-09
		M	0.005	7.8 E-08	5.0 E-04	5.9 E-08	3.7 E-08	2.8 E-08	2.6 E-08	2.1 E-08
		S	1.0 E-04	8.7 E-08	1.0 E-05	6.6 E-08	4.2 E-08	3.1 E-08	3.0 E-08	2.4 E-08
Pu-235	0.422 h	F	0.005	1.0 E-11	5.0 E-04	7.9 E-12	3.9 E-12	2.2 E-12	1.3 E-12	1.0 E-12
		M	0.005	1.3 E-11	5.0 E-04	1.0 E-11	5.0 E-12	2.9 E-12	1.9 E-12	1.4 E-12
		S	1.0 E-04	1.3 E-11	1.0 E-05	1.0 E-11	5.1 E-12	3.0 E-12	1.9 E-12	1.5 E-12
Pu-236	2.85 a	F	0.005	1.0 E-04	5.0 E-04	9.5 E-05	6.1 E-05	4.4 E-05	3.7 E-05	4.0 E-05
		M	0.005	4.8 E-05	5.0 E-04	4.3 E-05	2.9 E-05	2.1 E-05	1.9 E-05	2.0 E-05
		S	1.0 E-04	3.6 E-05	1.0 E-05	3.1 E-05	2.0 E-05	1.4 E-05	1.2 E-05	1.0 E-05
Pu-237	45.3 d	F	0.005	2.2 E-09	5.0 E-04	1.6 E-09	7.9 E-10	4.8 E-10	2.9 E-10	2.6 E-10
		M	0.005	1.9 E-09	5.0 E-04	1.4 E-09	8.2 E-10	5.4 E-10	4.3 E-10	3.5 E-10
		S	1.0 E-04	2.0 E-09	1.0 E-05	1.5 E-09	8.8 E-10	5.9 E-10	4.8 E-10	3.9 E-10
Pu-238	87.7 a	F	0.005	2.0 E-04	5.0 E-04	1.9 E-04	1.4 E-04	1.1 E-04	1.0 E-04	1.1 E-04
		M	0.005	7.8 E-05	5.0 E-04	7.4 E-05	5.6 E-05	4.4 E-05	4.3 E-05	4.6 E-05
		S	1.0 E-04	4.5 E-05	1.0 E-05	4.0 E-05	2.7 E-05	1.9 E-05	1.7 E-05	1.6 E-05
Pu-239	2.41 E+04a	F	0.005	2.1 E-04	5.0 E-04	2.0 E-04	1.5 E-04	1.2 E-04	1.1 E-04	1.2 E-04
		M	0.005	8.0 E-05	5.0 E-04	7.7 E-05	6.0 E-05	4.8 E-05	4.7 E-05	5.0 E-05
		S	1.0 E-04	4.3 E-05	1.0 E-05	3.9 E-05	2.7 E-05	1.9 E-05	1.7 E-05	1.6 E-05
Pu-240	6.54 E+03a	F	0.005	2.1 E-04	5.0 E-04	2.0 E-04	1.5 E-04	1.2 E-04	1.1 E-04	1.2 E-04
		M	0.005	8.0 E-05	5.0 E-04	7.7 E-05	6.0 E-05	4.8 E-05	4.7 E-05	5.0 E-05
		S	1.0 E-04	4.3 E-05	1.0 E-05	3.9 E-05	2.7 E-05	1.9 E-05	1.7 E-05	1.6 E-05
Pu-241	14.4 a	F	0.005	2.8 E-06	5.0 E-04	2.9 E-06	2.6 E-06	2.4 E-06	2.2 E-06	2.3 E-06
		M	0.005	9.1 E-07	5.0 E-04	9.7 E-07	9.2 E-07	8.3 E-07	8.6 E-07	9.0 E-07

Pu-242	3.76 E+05a	S	1.0 E-04	2.2 E-07	1.0 E-05	2.3 E-07	2.0 E-07	1.7 E-07	1.7 E-07	1.7 E-07	
		F	0.005	2.0 E-04	5.0 E-04	1.9 E-04	1.4 E-04	1.2 E-04	1.1 E-04	1.1 E-04	
		M	0.005	7.6 E-05	5.0 E-04	7.3 E-05	5.7 E-05	4.5 E-05	4.5 E-05	4.8 E-05	
Pu-243	4.95 h	S	1.0 E-04	4.0 E-05	1.0 E-05	3.6 E-05	2.5 E-05	1.7 E-05	1.6 E-05	1.5 E-05	
		F	0.005	2.7 E-10	5.0 E-04	1.9 E-10	8.8 E-11	5.7 E-11	3.5 E-11	3.2 E-11	
		M	0.005	5.6 E-10	5.0 E-04	3.9 E-10	1.9 E-10	1.3 E-10	8.7 E-11	8.3 E-11	
Pu-244	8.26 E+07a	S	1.0 E-04	6.0 E-10	1.0 E-05	4.1 E-10	2.0 E-10	1.4 E-10	9.2 E-11	8.6 E-11	
		F	0.005	2.0 E-04	5.0 E-04	1.9 E-04	1.4 E-04	1.2 E-04	1.1 E-04	1.1 E-04	
		M	0.005	7.4 E-05	5.0 E-04	7.2 E-05	5.6 E-05	4.5 E-05	4.4 E-05	4.7 E-05	
Pu-245	10.5 h	S	1.0 E-04	3.9 E-05	1.0 E-05	3.5 E-05	2.4 E-05	1.7 E-05	1.5 E-05	1.5 E-05	
		F	0.005	1.8 E-09	5.0 E-04	1.3 E-09	5.6 E-10	3.5 E-10	1.9 E-10	1.6 E-10	
		M	0.005	3.6 E-09	5.0 E-04	2.5 E-09	1.2 E-09	8.0 E-10	5.0 E-10	4.0 E-10	
Pu-246	10.9 d	S	1.0 E-04	3.8 E-09	1.0 E-05	2.6 E-09	1.3 E-09	8.5 E-10	5.4 E-10	4.3 E-10	
		F	0.005	2.0 E-08	5.0 E-04	1.4 E-08	7.0 E-09	4.4 E-09	2.8 E-09	2.5 E-09	
		M	0.005	3.5 E-08	5.0 E-04	2.6 E-08	1.5 E-08	1.1 E-08	9.1 E-09	7.4 E-09	
S		S	1.0 E-04	3.8 E-08	1.0 E-05	2.8 E-08	1.6 E-08	1.2 E-08	1.0 E-08	8.0 E-09	
		Americij									
		Am-237	1.22 h	F	0.005	9.8 E-11	5.0 E-04	7.3 E-11	3.5 E-11	2.2 E-11	1.3 E-11
M	0.005			1.7 E-10	5.0 E-04	1.2 E-10	6.2 E-11	4.1 E-11	3.0 E-11	2.5 E-11	
S	0.005			1.7 E-10	5.0 E-04	1.3 E-10	6.5 E-11	4.3 E-11	3.2 E-11	2.6 E-11	
Am-238	1.63 h	F	0.005	4.1 E-10	5.0 E-04	3.8 E-10	2.5 E-10	2.0 E-10	1.8 E-10	1.9 E-10	
		M	0.005	3.1 E-10	5.0 E-04	2.6 E-10	1.3 E-10	9.6 E-11	8.8 E-11	9.0 E-11	
		S	0.005	2.7 E-10	5.0 E-04	2.2 E-10	1.3 E-10	8.2 E-11	6.1 E-11	5.4 E-11	
Am-239	11.9 h	F	0.005	8.1 E-10	5.0 E-04	5.8 E-10	2.6 E-10	1.6 E-10	9.1 E-11	7.6 E-11	
		M	0.005	1.5 E-09	5.0 E-04	1.1 E-09	5.6 E-10	3.7 E-10	2.7 E-10	2.2 E-10	
		S	0.005	1.6 E-09	5.0 E-04	1.1 E-09	5.9 E-10	4.0 E-10	2.5 E-10	2.4 E-10	
Am-240	2.12 d	F	0.005	2.0 E-09	5.0 E-04	1.7 E-09	8.8 E-10	5.7 E-10	3.6 E-10	2.3 E-10	
		M	0.005	2.9 E-09	5.0 E-04	2.2 E-09	1.2 E-09	7.7 E-10	5.3 E-10	4.3 E-10	
		S	0.005	3.0 E-09	5.0 E-04	2.3 E-09	1.2 E-09	7.8 E-10	5.3 E-10	4.3 E-10	
Am-241	4.32 E+02a	F	0.005	1.8 E-04	5.0 E-04	1.8 E-04	1.2 E-04	1.0 E-04	9.2 E-05	9.6 E-05	
		M	0.005	7.3 E-05	5.0 E-04	6.9 E-05	5.1 E-05	4.0 E-05	4.0 E-05	4.2 E-05	
		S	0.005	4.6 E-05	5.0 E-04	4.0 E-05	2.7 E-05	1.9 E-05	1.7 E-05	1.6 E-05	
Am-242	16.0 h	F	0.005	9.2 E-08	5.0 E-04	7.1 E-08	3.5 E-08	2.1 E-08	1.4 E-08	1.1 E-08	
		M	0.005	7.6 E-08	5.0 E-04	5.9 E-08	3.6 E-08	2.4 E-08	2.1 E-08	1.7 E-08	
		S	0.005	8.0 E-08	5.0 E-04	6.2 E-08	3.9 E-08	2.7 E-08	2.4 E-08	2.0 E-08	
Am-242m	1.52 E+02a	F	0.005	1.6 E-04	5.0 E-04	1.5 E-04	1.1 E-04	9.4 E-05	8.8 E-05	9.2 E-05	
		M	0.005	5.2 E-05	5.0 E-04	5.3 E-05	4.1 E-05	3.4 E-05	3.5 E-05	3.7 E-05	
		S	0.005	2.5 E-05	5.0 E-04	2.4 E-05	1.7 E-05	1.2 E-05	1.1 E-05	1.1 E-05	
Am-243	7.38 E+03a	F	0.005	1.8 E-04	5.0 E-04	1.7 E-04	1.2 E-04	1.0 E-04	9.1 E-05	9.6 E-05	
		M	0.005	7.2 E-05	5.0 E-04	6.8 E-05	5.0 E-05	4.0 E-05	4.0 E-05	4.1 E-05	
		S	0.005	4.4 E-05	5.0 E-04	3.9 E-05	2.6 E-05	1.8 E-05	1.6 E-05	1.5 E-05	
Am-244	10.1 h	F	0.005	1.0 E-08	5.0 E-04	9.2 E-09	5.6 E-09	4.1 E-09	3.5 E-09	3.7 E-09	
		M	0.005	6.0 E-09	5.0 E-04	5.0 E-09	3.2 E-09	2.2 E-09	2.0 E-09	2.0 E-09	
		S	0.005	6.1 E-09	5.0 E-04	4.8 E-09	2.4 E-09	1.6 E-09	1.4 E-09	1.2 E-09	
Am-244m	0.433 h	F	0.005	4.6 E-10	5.0 E-04	4.0 E-10	2.4 E-10	1.8 E-10	1.5 E-10	1.6 E-10	
		M	0.005	3.3 E-10	5.0 E-04	2.1 E-10	1.3 E-10	9.2 E-11	8.3 E-11	8.4 E-11	
		S	0.005	3.0 E-10	5.0 E-04	2.2 E-10	1.2 E-10	8.1 E-11	5.5 E-11	5.7 E-11	
Am-245	2.05 h	F	0.005	2.1 E-10	5.0 E-04	1.4 E-10	6.2 E-11	4.0 E-11	2.4 E-11	2.1 E-11	
		M	0.005	3.9 E-10	5.0 E-04	2.6 E-10	1.3 E-10	8.7 E-11	6.4 E-11	5.3 E-11	
		S	0.005	4.1 E-10	5.0 E-04	2.8 E-10	1.3 E-10	9.2 E-11	6.8 E-11	5.6 E-11	

Am-246	0.650 h	F	0.005	3.0 E-10	5.0 E-04	2.0 E-10	9.3 E-11	6.1 E-11	3.8 E-11	3.3 E-11
		M	0.005	5.0 E-10	5.0 E-04	3.4 E-10	1.6 E-10	1.1 E-10	7.9 E-11	6.6 E-11
		S	0.005	5.3 E-10	5.0 E-04	3.6 E-10	1.7 E-10	1.2 E-10	8.3 E-11	6.9 E-11
Am-246m	0.417 h	F	0.005	1.3 E-10	5.0 E-04	8.9 E-11	4.2 E-11	2.6 E-11	1.6 E-11	1.4 E-11
		M	0.005	1.9 E-10	5.0 E-04	1.3 E-10	6.1 E-11	4.0 E-11	2.6 E-11	2.2 E-11
		S	0.005	2.0 E-10	5.0 E-04	1.4 E-10	6.4 E-11	4.1 E-11	2.7 E-11	2.3 E-11
Kirij										
Cm-238	2.40 h	F	0.005	7.7 E-09	5.0 E-04	5.4 E-09	2.6 E-09	1.8 E-09	9.2 E-10	7.8 E-10
		M	0.005	2.1 E-08	5.0 E-04	1.5 E-08	7.9 E-09	5.9 E-09	5.6 E-09	4.5 E-09
		S	0.005	2.2 E-08	5.0 E-04	1.6 E-08	8.6 E-09	6.4 E-09	6.1 E-09	4.9 E-09
Cm-240	27.0 d	F	0.005	8.3 E-06	5.0 E-04	6.3 E-06	3.2 E-06	2.0 E-06	1.5 E-06	1.3 E-06
		M	0.005	1.2 E-05	5.0 E-04	9.1 E-06	5.8 E-06	4.2 E-06	3.8 E-06	3.2 E-06
		S	0.005	1.3 E-05	5.0 E-04	9.9 E-06	6.4 E-06	4.6 E-06	4.3 E-06	3.5 E-06
Cm-241	32.8 d	F	0.005	1.1 E-07	5.0 E-04	8.9 E-08	4.9 E-08	3.5 E-08	2.8 E-08	2.7 E-08
		M	0.005	1.3 E-07	5.0 E-04	1.0 E-07	6.6 E-08	4.8 E-08	4.4 E-08	3.7 E-08
		S	0.005	1.4 E-07	5.0 E-04	1.1 E-07	6.9 E-08	4.9 E-08	4.5 E-08	3.7 E-08
Cm-242	163 d	F	0.005	2.7 E-05	5.0 E-04	2.1 E-05	1.0 E-05	6.1 E-06	4.0 E-06	3.3 E-06
		M	0.005	2.2 E-05	5.0 E-04	1.8 E-05	1.1 E-05	7.3 E-06	6.4 E-06	5.2 E-06
		S	0.005	2.4 E-05	5.0 E-04	1.9 E-05	1.2 E-05	8.2 E-06	7.3 E-06	5.9 E-06
Cm-243	28.5 a	F	0.005	1.6 E-04	5.0 E-04	1.5 E-04	9.5 E-05	7.3 E-05	6.5 E-05	6.9 E-05
		M	0.005	6.7 E-05	5.0 E-04	6.1 E-05	4.2 E-05	3.1 E-05	3.0 E-05	3.1 E-05
		S	0.005	4.6 E-05	5.0 E-04	4.0 E-05	2.6 E-05	1.8 E-05	1.6 E-05	1.5 E-05
Cm-244	18.1 a	F	0.005	1.5 E-04	5.0 E-04	1.3 E-04	8.3 E-05	6.1 E-05	5.3 E-05	5.7 E-05
		M	0.005	6.2 E-05	5.0 E-04	5.7 E-05	3.7 E-05	2.7 E-05	2.6 E-05	2.7 E-05
		S	0.005	4.4 E-05	5.0 E-04	3.8 E-05	2.5 E-05	1.7 E-05	1.5 E-05	1.3 E-05
Cm-245	8.50 E+03a	F	0.005	1.9 E-04	5.0 E-04	1.8 E-04	1.2 E-04	1.0 E-04	9.4 E-05	9.9 E-05
		M	0.005	7.3 E-05	5.0 E-04	6.9 E-05	5.1 E-05	4.1 E-05	4.1 E-05	4.2 E-05
		S	0.005	4.5 E-05	5.0 E-04	4.0 E-05	2.7 E-05	1.9 E-05	1.7 E-05	1.6 E-05
Cm-246	4.73 E+03a	F	0.005	1.9 E-04	5.0 E-04	1.8 E-04	1.2 E-04	1.0 E-04	9.4 E-05	9.8 E-05
		M	0.005	7.3 E-05	5.0 E-04	6.9 E-05	5.1 E-05	4.1 E-05	4.1 E-05	4.2 E-05
		S	0.005	4.6 E-05	5.0 E-04	4.0 E-05	2.7 E-05	1.9 E-05	1.7 E-05	1.6 E-05
Cm-247	1.56 E+07a	F	0.005	1.7 E-04	5.0 E-04	1.6 E-04	1.1 E-04	9.4 E-05	8.6 E-05	9.0 E-05
		M	0.005	6.7 E-05	5.0 E-04	6.3 E-05	4.7 E-05	3.7 E-05	3.7 E-05	3.9 E-05
		S	0.005	4.1 E-05	5.0 E-04	3.6 E-05	2.4 E-05	1.7 E-05	1.5 E-05	1.4 E-05
Cm-248	3.39 E+05a	F	0.005	6.8 E-04	5.0 E-04	6.5 E-04	4.5 E-04	3.7 E-04	3.4 E-04	3.6 E-04
		M	0.005	2.5 E-04	5.0 E-04	2.4 E-04	1.8 E-04	1.4 E-04	1.4 E-04	1.5 E-04
		S	0.005	1.4 E-04	5.0 E-04	1.2 E-04	8.2 E-05	5.6 E-05	5.0 E-05	4.8 E-05
Cm-249	1.07 h	F	0.005	1.8 E-10	5.0 E-04	9.8 E-11	5.9 E-11	4.6 E-11	4.0 E-11	4.0 E-11
		M	0.005	2.4 E-10	5.0 E-04	1.6 E-10	8.2 E-11	5.8 E-11	3.7 E-11	3.3 E-11
		S	0.005	2.4 E-10	5.0 E-04	1.6 E-10	7.8 E-11	5.3 E-11	3.9 E-11	3.3 E-11
Cm-250	6.90 E+03a	F	0.005	3.9 E-03	5.0 E-04	3.7 E-03	2.6 E-03	2.1 E-03	2.0 E-03	2.1 E-03
		M	0.005	1.4 E-03	5.0 E-04	1.3 E-03	9.9 E-04	7.9 E-04	7.9 E-04	8.4 E-04
		S	0.005	7.2 E-04	5.0 E-04	6.5 E-04	4.4 E-04	3.0 E-04	2.7 E-04	2.6 E-04
Berkelij										
Bk-245	4.94 d	M	0.005	8.8 E-09	5.0 E-04	6.6 E-09	4.0 E-09	2.9 E-09	2.6 E-09	2.1 E-09
Bk-246	1.83 d	M	0.005	2.1 E-09	5.0 E-04	1.7 E-09	9.3 E-10	6.0 E-10	4.0 E-10	3.3 E-10
Bk-247	1.38 E+03a	M	0.005	1.5 E-04	5.0 E-04	1.5 E-04	1.1 E-04	7.9 E-05	7.2 E-05	6.9 E-05
Bk-249	320 d	M	0.005	3.3 E-07	5.0 E-04	3.3 E-07	2.4 E-07	1.8 E-07	1.6 E-07	1.6 E-07
Bk-250	3.22 h	M	0.005	3.4 E-09	5.0 E-04	3.1 E-09	2.0 E-09	1.3 E-09	1.1 E-09	1.0 E-09

Kalifornij										
Cf-244	0.323 h	M	0.005	7.6 E-08	5.0 E-04	5.4 E-08	2.8 E-08	2.0 E-08	1.6 E-08	1.4 E-08
Cf-246	1.49 d	M	0.005	1.7 E-06	5.0 E-04	1.3 E-06	8.3 E-07	6.1 E-07	5.7 E-07	4.5 E-07
Cf-248	334 d	M	0.005	3.8 E-05	5.0 E-04	3.2 E-05	2.1 E-05	1.4 E-05	1.0 E-05	8.8 E-06
Cf-249	3.50 E+02a	M	0.005	1.6 E-04	5.0 E-04	1.5 E-04	1.1 E-04	8.0 E-05	7.2 E-05	7.0 E-05
Cf-250	13.1 g	M	0.005	1.1 E-04	5.0 E-04	9.8 E-05	6.6 E-05	4.2 E-05	3.5 E-05	3.4 E-05
Cf-251	8.98 E+02a	M	0.005	1.6 E-04	5.0 E-04	1.5 E-04	1.1 E-04	8.1 E-05	7.3 E-05	7.1 E-05
Cf-252	2.64 a	M	0.005	9.7 E-05	5.0 E-04	8.7 E-05	5.6 E-05	3.2 E-05	2.2 E-05	2.0 E-05
Cf-253	17.8 d	M	0.005	5.4 E-06	5.0 E-04	4.2 E-06	2.6 E-06	1.9 E-06	1.7 E-06	1.3 E-06
Cf-254	60.5 d	M	0.005	2.5 E-04	5.0 E-04	1.9 E-04	1.1 E-04	7.0 E-05	4.8 E-05	4.1 E-05
Ajnštajnij										
Es-250	2.10 h	M	0.005	2.0 E-09	5.0 E-04	1.8 E-09	1.2 E-09	7.8 E-10	6.4 E-10	6.3 E-10
Es-251	1.38 d	M	0.005	7.9 E-09	5.0 E-04	6.0 E-09	3.9 E-09	2.8 E-09	2.6 E-09	2.1 E-09
Es-253	20.5 d	M	0.005	1.1 E-05	5.0 E-04	8.0 E-06	5.1 E-06	3.7 E-06	3.4 E-06	2.7 E-06
Es-254	276 d	M	0.005	3.7 E-05	5.0 E-04	3.1 E-05	2.0 E-05	1.3 E-05	1.0 E-05	8.6 E-06
Es-254m	1.64 d	M	0.005	1.7 E-06	5.0 E-04	1.3 E-06	8.4 E-07	6.3 E-07	5.9 E-07	4.7 E-07
Fermij										
Fm-252	22.7 h	M	0.005	1.2 E-06	5.0 E-04	9.0 E-07	5.8 E-07	4.3 E-07	4.0 E-07	3.2 E-07
Fm-253	3.00 d	M	0.005	1.5 E-06	5.0 E-04	1.2 E-06	7.3 E-07	5.4 E-07	5.0 E-07	4.0 E-07
Fm-254	3.24 h	M	0.005	3.2 E-07	5.0 E-04	2.3 E-07	1.3 E-07	9.8 E-08	7.6 E-08	6.1 E-08
Fm-255	20.1 h	M	0.005	1.2 E-06	5.0 E-04	7.3 E-07	4.7 E-07	3.5 E-07	3.4 E-07	2.7 E-07
Fm-257	101 d	M	0.005	3.3 E-05	5.0 E-04	2.6 E-05	1.6 E-05	1.1 E-05	8.8 E-06	7.1 E-06
Mendelevij										
Md-257	5.20 h	M	0.005	1.0 E-07	5.0 E-04	8.2 E-08	5.1 E-08	3.6 E-08	3.1 E-08	2.5 E-08
Md-258	55.0 d	M	0.005	2.4 E-05	5.0 E-04	1.9 E-05	1.2 E-05	8.6 E-06	7.3 E-06	5.9 E-06

Tablica 6. UDISANJE: OČEKIVANE EFEKTIVNE DOZE PO JEDINICI UNESENE AKTIVNOSTI e(g)(Sv Bq-1) ZA TOPLJIVE I REAKTIVNE PLINOVE I PARE

Radio-nuklid	Fizikalno vrijeme poluraspada	Apsorpcija (a)	% Taloženje	Dob $g \leq 1a$		f1 za $g > 1a$	Dob 1 – 2 a	Dob 2 – 7 a	Dob 7 – 12 a	Dob 12 – 17 a	Dob > 17 g
				f1	e (g)		e (g)	e (g)	e (g)	e (g)	
Tricirana voda	12.3 a	V	100	1.000	6.4 E-11	1.000	4.8 E-11	3.1 E-11	2.3 E-11	1.8 E-11	1.8 E-11
Elementarni tricij	12.3 a	V	0.01	1.000	6.4 E-15	1.000	4.8 E-15	3.1 E-15	2.3 E-15	1.8 E-15	1.8 E-15
Tricirani metan	12.3 a	V	1	1.000	6.4 E-13	1.000	4.8 E-13	3.1 E-13	2.3 E-13	1.8 E-13	1.8 E-13
Organski vezani tricij	12.3 a	V	100	1.000	1.1 E-10	1.000	1.1 E-10	7.0 E-11	5.5 E-11	4.1 E-11	4.1 E-11
Ugljik	0.340h	V	100	1.000	2.8 E-11	1.000	1.8 E-11	9.7 E-12	6.1 E-12	3.8 E-12	3.2 E-12
Ugljik 11 dioksid	0.340h	V	100	1.000	1.8 E-11	1.000	1.2 E-11	6.5 E-12	4.1 E-12	2.5 E-12	2.2 E-12
Ugljik 11 monoksid	0.340h	V	40	1.000	1.0 E-11	1.000	6.7 E-12	3.5 E-12	2.2 E-12	1.4 E-12	1.2 E-12
Ugljik 14 para	5.73E+3 a	V	100	1.000	1.3 E-09	1.000	1.6 E-09	9.7 E-10	7.9 E-10	5.7 E-10	5.8 E-10
Ugljik 14 dioksid	5.73E+3 a	V	100	1.000	1.9 E-11	1.000	1.9 E-11	1.1 E-11	8.9 E-12	6.3 E-12	6.2 E-12
Ugljik 14 monoksid	5.73E+3 a	V	40	1.000	9.1 E-12	1.000	5.7 E-12	2.8 E-12	1.7 E-12	9.9 E-13	8.0 E-13
Ugljik disulfid 35	87.4 d	F	100	1.000	6.9 E-09	0.800	4.8 E-09	2.4 E-09	1.4 E-09	8.6 E-10	7.0 E-10
Sumpor 35 dioksid	87.4 d	F	85	1.000	9.4 E-10	0.800	6.6 E-10	3.4 E-10	2.1 E-10	1.3 E-10	1.1 E-10
Nikl 56 karbonil	6.10 d	(c)	100	1.000	6.8 E-09	1.000	5.2 E-09	3.2 E-09	2.1 E-09	1.4 E-09	1.2 E-09

Nikl 57 karbonil	1.50 d	(c)	100	1.000	3.1 E-09	1.000	2.3 E-09	1.4 E-09	9.2 E-10	6.5 E-10	5.6 E-10
Nikl 59 karbonil	7.50E+4 a	(c)	100	1.000	4.0 E-09	1.000	3.3 E-09	2.0 E-09	1.3 E-09	9.1 E-10	8.3 E-10
Nikl 63 karbonil	96.0 a	(c)	100	1.000	9.5 E-09	1.000	8.0 E-09	4.8 E-09	3.0 E-09	2.2 E-09	2.0 E-09
Nikl 65 karbonil	2.52 h	(c)	100	1.000	2.0 E-09	1.000	1.4 E-09	8.1 E-10	5.6 E-10	4.0 E-10	3.6 E-10
Nikl 66 karbonil	2.27 d	(c)	100	1.000	1.0 E-08	1.000	7.1 E-09	4.0 E-09	2.7 E-09	1.8 E-09	1.6 E-09
Rutenij -94 tetraoksid	0.863 h	F	100	0.100	5.5 E-10	0.050	3.5 E-10	1.8 E-10	1.1 E-10	7.0 E-11	5.6 E-11
Rutenij 97 tetraoksid	2.90 d	F	100	0.100	8.7 E-10	0.050	6.2 E-10	3.4 E-10	2.2 E-10	1.4 E-10	1.2 E-10
Rutenij 103 tetraoksid	39.3 d	F	100	0.100	9.0 E-09	0.050	6.2 E-09	3.3 E-09	2.1 E-09	1.3 E-09	1.1 E-09
Rutenij 105 tetraoksid	4.44 h	F	100	0.100	1.6 E-09	0.050	1.0 E-09	5.3 E-10	3.2 E-10	2.2 E-10	1.8 E-10
Rutenij 106 tetraoksid	1.01 a	F	100	0.100	1.6 E-07	0.050	1.1 E-07	6.1 E-08	3.7 E-08	2.2 E-08	1.8 E-08
Telur – 116 para	2.49 h	F	100	0.600	5.9 E-10	0.300	4.4 E-10	2.5 E-10	1.6 E-10	1.1 E-10	8.7 E-11
Telur – 121 para	17.0 d	F	100	0.600	3.0 E-09	0.300	2.4 E-09	1.4 E-09	9.6 E-10	6.7 E-10	5.1 E-10
Telur – 121m para	154 d	F	100	0.600	3.5 E-08	0.300	2.7 E-08	1.6 E-08	9.8 E-09	6.6 E-09	5.5 E-09
Telur – 123 para	1.0E+13 a	F	100	0.600	2.8 E-08	0.300	2.5 E-08	1.9 E-08	1.5 E-08	1.3 E-08	1.2 E-08
Telur -123m para	120 d	F	100	0.600	2.5 E-08	0.300	1.8 E-08	1.0 E-08	5.7 E-09	3.5 E-09	2.9 E-09
Telur – 125m para	58.0 d	F	100	0.600	1.5 E-08	0.300	1.1 E-08	5.9 E-09	3.2 E-09	1.9 E-09	1.5 E-09
Telur 127 para	9.35 h	F	100	0.600	6.1 E-10	0.300	4.4 E-10	2.3 E-10	1.4 E-10	9.2 E-11	7.7 E-11
Telur 127m para	109 d	F	100	0.600	5.3 E-08	0.300	3.7 E-08	1.9 E-08	1.0 E-08	6.1 E-09	4.6 E-09
Telur 129 para	1.16 h	F	100	0.600	2.5 E-10	0.300	1.7 E-10	9.4 E-11	6.2 E-11	4.3 E-11	3.7 E-11
Telur – 129m para	33.6 d	F	100	0.600	4.8 E-08	0.300	3.2 E-08	1.6 E-08	8.5 E-09	5.1 E-09	3.7 E-09
Telur 131 para	0.417 h	F	100	0.600	5.1 E-10	0.300	4.5 E-10	2.6 E-10	1.4 E-10	9.5 E-11	6.8 E-11
Telur – 131m para	1.25 d	F	100	0.600	2.1 E-08	0.300	1.9 E-08	1.1 E-08	5.6 E-09	3.7 E-09	2.4 E-09
Telur 132 para	3.26 d	F	100	0.600	5.4 E-08	0.300	4.5 E-08	2.4 E-08	1.2 E-08	7.6 E-09	5.1 E-09
Telur 133 para	0.207 h	F	100	0.600	5.5 E-10	0.300	4.7 E-10	2.5 E-10	1.2 E-10	8.1 E-11	5.6 E-11
Telur – 133m para	0.923 h	F	100	0.600	2.3 E-09	0.300	2.0 E-09	1.1 E-09	5.0 E-10	3.3 E-10	2.2 E-10
Telur 134 para	0.696 h	F	100	0.600	6.8 E-10	0.300	5.5 E-10	3.0 E-10	1.6 E-10	1.1 E-10	8.4 E-11
Elementarni jod 120	1.35 h	V	100	1.000	3.0 E-09	1.000	2.4 E-09	1.3 E-09	6.4 E-10	4.3 E-10	3.0 E-10
Elementarni jod 120m	0.883 h	V	100	1.000	1.5 E-09	1.000	1.2 E-09	6.4 E-10	3.4 E-10	2.3 E-10	1.8 E-10
Elementarni jod 121	2.12 h	V	100	1.000	5.7 E-10	1.000	5.1 E-10	3.0 E-10	1.7 E-10	1.2 E-10	8.6 E-11
Elementarni jod 123	13.2 h	V	100	1.000	2.1 E-09	1.000	1.8 E-09	1.0 E-09	4.7 E-10	3.2 E-10	2.1 E-10
Elementarni jod 124	4.18 d	V	100	1.000	1.1 E-07	1.000	1.0 E-07	5.8 E-08	2.8 E-08	1.8 E-08	1.2 E-08
Elementarni jod 125	60.1 d	V	100	1.000	4.7 E-08	1.000	5.2 E-08	3.7 E-08	2.8 E-08	2.0 E-08	1.4 E-08
Elementarni jod 126	13.0 d	V	100	1.000	1.9 E-07	1.000	1.9 E-07	1.1 E-07	6.2 E-08	4.1 E-08	2.6 E-08
Elementarni jod 128	0.416 h	V	100	1.000	4.2 E-10	1.000	2.8 E-10	1.6 E-10	1.0 E-10	7.5 E-11	6.5 E-11
Elementarni jod 129	1.57E+7 a	V	100	1.000	1.7 E-07	1.000	2.0 E-07	1.6 E-07	1.7 E-07	1.3 E-07	9.6 E-08

Elementarni jod 130	12.4 h	V	100	1.000	1.9 E-08	1.000	1.7 E-08	9.2 E-09	4.3 E-09	2.8 E-09	1.9 E-09
Elementarni jod 131	8.04 d	V	100	1.000	1.7 E-07	1.000	1.6 E-07	9.4 E-08	4.8 E-08	3.1 E-08	2.0 E-08
Elementarni jod 132	2.30 h	V	100	1.000	2.8 E-09	1.000	2.3 E-09	1.3 E-09	6.4 E-10	4.3 E-10	3.1 E-10
Elementarni jod132m	1.39 h	V	100	1.000	2.4 E-09	1.000	2.1 E-09	1.1 E-09	5.6 E-10	3.8 E-10	2.7 E-10
Elementarni jod 133	20.8 h	V	100	1.000	4.5 E-08	1.000	4.1 E-08	2.1 E-08	9.7 E-09	6.3 E-09	4.0 E-09
Elementarni jod 134	0.876 h	V	100	1.000	8.7 E-10	1.000	6.9 E-10	3.9 E-10	2.2 E-10	1.6 E-10	1.5 E-10
Elementarni jod 135	6.61 h	V	100	1.000	9.7 E-09	1.000	8.5 E-09	4.5 E-09	2.1 E-09	1.4 E-09	9.2 E-10
Metil jodid 120	1.35 h	V	70	1.000	2.3 E-09	1.000	1.9 E-09	1.0 E-09	4.8 E-10	3.1 E-10	2.0 E-10
Metil jodid 120m	0.883 h	V	70	1.000	1.0 E-09	1.000	8.7 E-10	4.6 E-10	2.2 E-10	1.5 E-10	1.0 E-10
Metil jodid 121	2.12 h	V	70	1.000	4.2 E-10	1.000	3.8 E-10	2.2 E-10	1.2 E-10	8.3 E-11	5.6 E-11
Metil jodid 123	13.2 h	V	70	1.000	1.6 E-09	1.000	1.4 E-09	7.7 E-10	3.6 E-10	2.4 E-10	1.5 E-10
Metil jodid 124	4.18 d	V	70	1.000	8.5 E-08	1.000	8.0 E-08	4.5 E-08	2.2 E-08	1.4 E-08	9.2 E-09
Metil jodid 125	60.1 d	V	70	1.000	3.7 E-08	1.000	4.0 E-08	2.9 E-08	2.2 E-08	1.6 E-08	1.1 E-08
Metil jodid 126	13.0 d	V	70	1.000	1.5 E-07	1.000	1.5 E-07	9.0 E-08	4.8 E-08	3.2 E-08	2.0 E-08
Metil jodid 128	0.416 h	V	70	1.000	1.5 E-10	1.000	1.2 E-10	6.3 E-11	3.0 E-11	1.9 E-11	1.3 E-11
Metil jodid 129	1.57E+7 a	V	70	1.000	1.3 E-07	1.000	1.5 E-07	1.2 E-07	1.3 E-07	9.9 E-08	7.4 E-08
Metil jodid 130	12.4 h	V	70	1.000	1.5 E-08	1.000	1.3 E-08	7.2 E-09	3.3 E-09	2.2 E-09	1.4 E-09
Metil jodid 131	8.04 d	V	70	1.000	1.3 E-07	1.000	1.3 E-07	7.4 E-08	3.7 E-08	2.4 E-08	1.5 E-08
Metil jodid 132	2.30 h	V	70	1.000	2.0 E-09	1.000	1.8 E-09	9.5 E-10	4.4 E-10	2.9 E-10	1.9 E-10
Metil jodid 132m	1.39 h	V	70	1.000	1.8 E-09	1.000	1.6 E-09	8.3 E-10	3.9 E-10	2.5 E-10	1.6 E-10
Metil jodid 133	20.8 h	V	70	1.000	3.5 E-08	1.000	3.2 E-08	1.7 E-08	7.6 E-09	4.9 E-09	3.1 E-09
Metil jodid 134	0.876 h	V	70	1.000	5.1 E-10	1.000	4.3 E-10	2.3 E-10	1.1 E-10	7.4 E-11	5.0 E-11
Metil jodid 135	6.61 h	V	70	1.000	7.5 E-09	1.000	6.7 E-09	3.5 E-09	1.6 E-09	1.1 E-09	6.8 E-10
Živa 193 para	3.50 h	(d)	70	1.000	4.2 E-09	1.000	3.4 E-09	2.2 E-09	1.6 E-09	1.2 E-09	1.1 E-09
Živa 193m para	11.1 h	(d)	70	1.000	1.2 E-08	1.000	9.4 E-09	6.1 E-09	4.5 E-09	3.4 E-09	3.1 E-09
Živa 194 para	2.60E+2 a	(d)	70	1.000	9.4 E-08	1.000	8.3 E-08	6.2 E-08	5.0 E-08	4.3 E-08	4.0 E-08
Živa 195 para	9.90 h	(d)	70	1.000	5.3 E-09	1.000	4.3 E-09	2.8 E-09	2.1 E-09	1.6 E-09	1.4 E-09
Živa 195m para	1.73 d	(d)	70	1.000	3.0 E-08	1.000	2.5 E-08	1.6 E-08	1.2 E-08	8.8 E-09	8.2 E-09
Živa 197 para	2.67 d	(d)	70	1.000	1.6 E-08	1.000	1.3 E-08	8.4 E-09	6.3 E-09	4.7 E-09	4.4 E-09
Živa 197m para	23.8 h	(d)	70	1.000	2.1 E-08	1.000	1.7 E-08	1.1 E-08	8.2 E-09	6.2 E-09	5.8 E-09
Živa 199m para	0.710 h	(d)	70	1.000	6.5 E-10	1.000	5.3 E-10	3.4 E-10	2.5 E-10	1.9 E-10	1.8 E-10
Živa 203 para	46.6 d	(d)	70	1.000	3.0 E-08	1.000	2.3 E-08	1.5 E-08	1.0 E-08	7.7 E-09	7.0 E-09

(a) F: brzo; V: tvar je trenutno i potpuno prenesena u tjelesne tekućine;

(b) Primjenljivo na radnike i odrasle pripadnike pučanstva;

(c) Taloženje 30%: 10%: 20%: 40% (izvanpršno: bronhialno: bronhiolarno: alveolarno-intersticijsko), zadržavanje s poluživotom od 0.1 dan;

(d) Taloženje 10%: 20%: 40% (bronhialno: bronhiolarno: alveolarno-intersticijsko), zadržavanje s poluživotom od 1.7 dana.

Tablica 7a. VRIJEDNOSTI KOEFICIJENTA PRIJENOSA F1 POTREBNOG ZA PRORAČUN OČEKIVANE EFEKTIVNE DOZE PO JEDINICI AKTIVNOSTI RADIONUKLIDA U SPOJEVIMA UNEŠENIM GUTANJEM

Element	Koeficijent prijenosa f1	Kemijski spoj	Fluor	1.000	Svi spojevi
Vodik	1.000	Tricirana voda (namirnice)	Natrij	1.000	Svi spojevi
	1.000	Organski vezani tricij	Magnezij	0.500	Svi spojevi
Ugljik	1.000	Označeni organski spojevi	Aluminij	0.010	Svi spojevi
			Silicij	0.010	Svi spojevi

Fosfor	0.800	Svi spojevi
Sumpor	0.800	Elementalni sumpor
	0.100	Organski sumpor
	1.000	Anorganski spojevi
Klor	1.000	Svi spojevi
Kalij	1.000	Svi spojevi
Kalcij	0.300	Svi spojevi
Skandij	1.0 E-04	Svi spojevi
Titan	0.010	Svi spojevi
Vanadij	0.010	Svi spojevi
Krom	0.100	Heksavalentni spojevi
	0.010	Trovalentni spojevi
Mangan	0.100	Svi spojevi
Željezo	0.100	Svi spojevi
Kobalt	0.100	Svi nespecificirani spojevi
	0.050	Oksidi, hidroksidi i anorganski spojevi
Nikal	0.050	Svi spojevi
Bakar	0.500	Svi spojevi
Cink	0.500	Svi spojevi
Galij	0.001	Svi spojevi
Germanij	1.000	Svi spojevi
Arsen	0.500	Svi spojevi
Selen	0.800	Svi nespecificirani spojevi
	0.050	Elementarni selen i selenidi
Brom	1.000	Svi spojevi
Rubidij	1.000	Svi spojevi
Stroncij	0.300	Svi nespomenuti spojevi
	0.010	Stroncijev titanat (SrTiO ₃)
Itrij	1.0 E-04	Svi spojevi
Cirkonij	0.002	Svi spojevi
Niobij	0.010	Svi spojevi
Molibden	0.800	Svi nespecificirani spojevi
	0.050	Molibdensulfid
Tehnecij	0.800	Svi spojevi
Rutenij	0.050	Svi spojevi
Rodij	0.050	Svi spojevi
Paladij	0.005	Svi spojevi
Srebro	0.050	Svi spojevi
Kadmij	0.050	Svi anorganski spojevi
Indij	0.020	Svi spojevi
Kositar	0.020	Svi spojevi
Antimon	0.100	Svi spojevi
Telur	0.300	Svi spojevi
Jod	1.000	Svi spojevi
Cezij	1.000	Svi spojevi
Barij	0.100	Svi spojevi
Lantan	5.0 E-04	Svi spojevi
Cerij	5.0 E-04	Svi spojevi
Praezodij	5.0 E-04	Svi spojevi

Neodij	5.0 E-04	Svi spojevi
Promecij	5.0 E-04	Svi spojevi
Samarij	5.0 E-04	Svi spojevi
Europij	5.0 E-04	Svi spojevi
Gadolinij	5.0 E-04	Svi spojevi
Terbij	5.0 E-04	Svi spojevi
Disprozij	5.0 E-04	Svi spojevi
Holmij	5.0 E-04	Svi spojevi
Erbij	5.0 E-04	Svi spojevi
Tulij	5.0 E-04	Svi spojevi
Iterbij	5.0 E-04	Svi spojevi
Lutecij	5.0 E-04	Svi spojevi
Hafnij	0.002	Svi spojevi
Tantal	0.001	Svi spojevi
Volfram	0.300	Svi nespecificirani spojevi
	0.010	Volframova kiselina
Renij	0.800	Svi spojevi
Osmij	0.010	Svi spojevi
Iridij	0.010	Svi spojevi
Platina	0.010	Svi spojevi
Zlato	0.100	Svi spojevi
Živa	0.020	Svi neorganski spojevi
Živa	####	Metil živa
	####	Svi nespecificirani organski spojevi
Talij	1.000	Svi spojevi
Olovo	0.200	Svi spojevi
Bizmut	0.050	Svi spojevi
Polonij	0.100	Svi spojevi
Astacij	1.000	Svi spojevi
Francij	1.000	Svi spojevi
Radij	0.200	Svi spojevi
Aktinij	5.0 E-04	Svi spojevi
Torij	5.0 E-04	Svi nespecificirani spojevi
	2.0 E-04	Oksidi, hidroksidi i anorganski spojevi
Protaktinij	5.0 E-04	Svi spojevi
Uran	0.020	Svi nespecificirani spojevi
	0.002	Većina tetravalentnih spojeva, npr. UO ₂ , U ₃ O ₈ , UF ₄
Neptunij	5.0 E-04	Svi spojevi
Plutonij	5.0 E-04	Svi nespecificirani spojevi
	1.0 E-04	Nitrati
	1.0 E-05	Netopljivi oksidi
Americij	5.0 E-04	Svi spojevi
Kirij	5.0 E-04	Svi spojevi
Berkelij	5.0 E-04	Svi spojevi
Kalifornij	5.0 E-04	Svi spojevi
Ajnštajnij	5.0 E-04	Svi spojevi
Fermij	5.0 E-04	Svi spojevi
Mendelevij	5.0 E-04	Svi spojevi

Tablica 7b. VRIJEDNOSTI KOEFICIJENTA PRIJENOSA f_1 POTREBNOG ZA PRORAČUN OČEKIVANE EFEKTIVNE DOZE PO JEDINICI AKTIVNOSTI RADIONUKLIDA U SPOJEVIMA UNEŠENIH DISANJEM I NAČIN APSORPCIJE U PLUĆIMA

Element	Način apsorpcije	Koeficijent prijenosa f_1	Kemijski spoj
Berilij	M	0.005	Svi spojevi
	S	0.005	Oksidi, halidi i nitrati
Fluor	F	100.0	određen kombinacijom kationa
	M	10.00	Određen kombinacijom kationa
	S	1.000	Određen kombinacijom kationa
Natrij	F	1.000	Svi spojevi
Magnezij	F	0.500	Svi nespecificirani spojevi
	M	0.500	Oksidi, hidroksidi, karbidi, halidi i nitrati
Aluminij	F	0.010	Svi nespecificirani spojevi
	M	0.010	Oksidi, hidroksidi, karbidi, halidi, nitrati i metalni aluminij
Silicij	F	0.010	Svi nespecificirani spojevi
	M	0.010	Oksidi, hidroksidi, karbidi i nitrati
	S	0.010	
Fosfor	F	0.800	Samo fosfati: određeni koncentracijom kationa
	M	0.800	
Sumpor	F	0.800	Sulfidi i sulfati: određeni kombinacijom kationa
	M	0.800	Elementalni sumpor: sulfidi i sulfati određeni kombinacijom kationa
Klor	F	10.00	Određen kombinacijom kationa
	M	1.000	Određen kombinacijom kationa
Kalij	F	1.000	Svi spojevi
Kalcij	M	0.300	Svi spojevi
Skandij	S	1.0 E-04	Svi spojevi
Titan	F	0.010	Oksidi, hidroksidi, karbidi, halidi i nitrati
	M	0.010	Stroncijev titanat (SrTiO ₃)
	S	0.010	Svi nespecificirani spojevi
Vanadij	F	0.010	Oksidi, hidroksidi, karbidi, halidi i nitrati
	M	0.010	
Krom	F	0.100	Svi nespecificirani spojevi
	M	0.100	Halidi i nitrati
	S	0.100	
Mangan	F	0.100	Svi nespecificirani spojevi
	M	0.100	Oksidi, hidroksidi, halidi i nitrati

Željezo	F	0.100	Svi nespecificirani spojevi
	M	0.100	Oksidi, hidroksidi, halidi
Kobalt	M	0.100	Svi nespecificirani spojevi
	S	0.050	Oksidi, hidroksidi, halidi i nitrati
Nikal	F	0.050	Svi nespecificirani spojevi
	M	0.050	Oksidi, hidroksidi, karbidi
Bakar	F	0.500	Svi nespecificirani neorganski spojevi
	M	0.500	Sulfidi, halidi i nitrati
	S	0.500	Oksidi i hidroksidi
Cink	S	0.500	Svi spojevi
Galij	F	0.001	Svi nespecificirani spojevi
	M	0.001	Oksidi, hidroksidi, halidi i nitrati
Germanij	F	10.00	Svi nespecificirani spojevi
	M	1.000	Oksidi, sulfidi i halidi
Arsen	M	0.500	Svi spojevi
Selen	F	0.800	Svi nespecificirani spojevi
	M	0.800	Elementalni selen, oksidi, hidroksidi i karbidi
Brom	F	10.00	Određeni kombinacijom kationa
	M	1.000	Određeni kombinacijom kationa
Rubidij	F	1.000	Svi spojevi
Stroncij	F	0.300	Svi nespecificirani spojevi
	S	0.010	Stroncijtitanat (SrTiO ₃)
Itrij	M	1.0 E-04	Svi nespecificirani spojevi
	S	2 . 0	Oksidi i hidroksidi
		1.0 E-04	
Cirkonij	F	0.002	Svi nespecificirani spojevi
	M	0.002	Oksidi, hidroksidi, halidi i nitrati
	S	0.002	
Niobij	M	0.010	Svi nespecificirani spojevi
	S	0.010	Oksidi i hidroksidi
Molibden	F	0.800	Svi nespecificirani spojevi
	S	0.050	Molibdensulfid, oksidi i hidroksidi
Tehnecij	F	0.800	Svi nespecificirani spojevi
	M	0.800	Oksidi, hidroksidi, halidi i nitrati
Rutenij	F	0.050	Svi nespecificirani spojevi
	M	0.050	Halidi
	S	0.050	Oksidi i hidroksidi
Rodij	F	0.050	Svi nespecificirani spojevi
	M	0.050	Halidi
	S	0.050	Oksidi i hidroksidi
Paladij	F	0.005	Svi nespecificirani spojevi
	M	0.005	Nitrati i halidi
	S	0.005	Oksidi i hidroksidi

Srebro	F	0.050	Svi nespecificirani spojevi i metalno srebro Nitrati i sulfidi Oksidi, hidroksidi i karbidi
	M	0.050	
	S	0.050	
Kadmij	F	0.050	Svi nespecificirani spojevi Sulfidi, halidi i nitrati Oksidi i hidroksidi
	M	0.050	
	S	0.050	
Indij	F	0.020	Svi nespecificirani spojevi Oksidi, hidroksidi, halidi i nitrati
	M	0.020	
Kositar	F	0.020	Svi nespecificirani spojevi Fosfati, sulfidi, oksidi, hidroksidi, halidi i nitrati
	M	0.020	
Antimon	F	0.100	Svi nespecificirani spojevi Oksidi hidroksidi halidi sulfidi sulfati i nitrati
	M	0.010	
Telur	F	0.300	Svi nespecificirani spojevi Oksidi, hidroksidi i nitrati
	M	0.300	
Jod	F	1.000	Svi spojevi
Cezij	F	1.000	Svi spojevi
Barij	F	0.100	Svi spojevi
Lantan	F	5.0 E-04	Svi nespecificirani spojevi Oksidi i hidroksidi
	M	5.0 E-04	
Cerij	M	5.0 E-04	Svi nespecificirani spojevi Oksidi, hidroksidi i fluoridi
	S	5.0 E-04	
	S	5.0 E-04	
Prazodij	M	5.0 E-04	Svi nespecificirani spojevi Oksidi, hidroksidi, karbidi i fluoridi
	S	5.0 E-04	
Neodij	M	5.0 E-04	Svi nespecificirani spojevi Oksidi, hidroksidi, karbidi i fluoridi
	S	5.0 E-04	
Promecij	M	5.0 E-04	Svi nespecificirani spojevi Oksidi, hidroksidi, karbidi i fluoridi
	S	5.0 E-04	
Samarij	M	5.0 E-04	Svi spojevi
Europij	M	5.0 E-04	Svi spojevi
Gadolinij	F	5.0 E-04	Svi nespecificirani spojevi Oksidi, hidroksidi i fluoridi
	M	5.0 E-04	
Terbij	M	5.0 E-04	Svi spojevi
Disprozij	M	5.0 E-04	Svi spojevi
Holmij	M	5.0 E-04	Svi nespecificirani spojevi
Erbij	M	5.0 E-04	Svi spojevi
Tulij	M	5.0 E-04	Svi spojevi
Iterbij	M	5.0 E-04	Svi nespecificirani spojevi Oksidi, hidroksidi i fluoridi
	S	5.0 E-04	
Lutecij	M	5.0 E-04	Svi nespecificirani spojevi Oksidi, hidroksidi i fluoridi
	S	5.0 E-04	
Hafnij	F	0.002	Svi nespecificirani spojevi Oksidi, hidroksidi, halidi, karbidi i nitrati
	M	0.002	

Tantal	M	0.001	Svi nespecificirani spojevi Elementalni tantal, oksidi, hidroksidi, halidi, karbidi, nitrati i nitriti
	S	0.001	
Volfram	F	0.300	Svi spojevi
Renij	F	0.800	Svi nespecificirani spojevi Oksidi, hidroksidi, nitrati i halidi
	M	0.800	
Osmij	F	0.010	Svi nespecificirani spojevi Halidi i nitrati Oksidi i hidroksidi
	M	0.010	
	S	0.010	
Iridij	F	0.010	Svi nespecificirani spojevi Metalni iridij, halidi i nitrati Oksidi i hidroksidi
	M	0.010	
	S	0.010	
Platina	F	0.010	Svi spojevi
Zlato	F	0.100	Svi nespecificirani spojevi Halidi i nitrati Oksidi i hidroksidi
	M	0.100	
	S	0.100	
Živa	F	0.020	Svi spojevi
	M	0.020	
Živa	F	0.400	Svi organski spojevi
Talij	F	1.000	Svi spojevi
Olovo	F	0.200	Svi spojevi
Bizmut	F	0.050	Bizmut nitrati Svi nespecificirani spojevi
	M	0.050	
Polonij	F	0.100	Svi nespecificirani spojevi Oksidi, hidroksidi i nitrati
	M	0.100	
Astacij	F	10.00	Određeni kombinacijom kationa Određeni kombinacijom kationa
	M	1.000	
Francij	F	1.000	Svi spojevi
Radij	M	0.200	Svi spojevi
Aktinij	F	5.0 E-04	Svi nespecificirani spojevi Halidi i nitrati Oksidi i hidroksidi
	M	5.0 E-04	
	S	5.0 E-04	
Torij	M	5.0 E-04	Svi nespecificirani spojevi Oksidi i hidroksidi
	S	2.0 E-04	
Protaktinij	M	5.0 E-04	Svi nespecificirani spojevi Oksidi i hidroksidi
	S	5.0 E-04	
Uran	F	0.020	Većina heksavalentnih spojeva, npr. UF_6 , UO_2F_2 i $UO_2(NO_3)_2$ Manje topljivi spojevi, npr. UO_3 , UF_4 , UCl_4 i većina heksavalentnih spojeva Visokotopljivi spojevi, npr. UO_2 i U_3O_8
	M	0.020	
	S	0.002	
Neptunij	M	5.0 E-04	Svi spojevi
Plutonij	M	5.0 E-04	Svi nespecificirani spojevi
	S	1.0 E-05	
Americij	M	5.0 E-04	Svi spojevi
Kirij	M	5.0 E-04	Svi spojevi

Berklij	M	5.0 E-04	Svi spojevi
Kalifornij	M	5.0 E-04	Svi spojevi
Ajnštajnij	M	5.0 E-04	Svi spojevi
Fermij	M	5.0 E-04	Svi spojevi
Mendelevij	M	5.0 E-04	Svi spojevi

Napomena: Tipovi F, M i S označavaju brzo, umjereno ili sporo prenošenje radionuklida u pluća

Tablica 8. AKCIJSKE RAZINE ZA AKUTNO OZRAČENJE ODREĐENIH ORGANA POSLIJE IZVANREDNOG DOGAĐAJA

Organ ili tkivo	Procjenjena apsorbirana doza organa ili tkiva u razdoblju do 2 dana (Gy)
Cijelo tijelo	1
Pluća	6
Koža	3
Štitna žlijezda	3
Očne leće	5
Gonade	2
	3

Tablica 9. AKCIJSKA RAZINA ZA KRONIČNO IZLAGANJE ODREĐENIH ORGANA POSLIJE IZVANREDNOG DOGAĐAJA

Organ ili tkivo	Brzina ekvivalentne doze (Sv/godišnje)
Gonade	0,2
Očna leća	0 , 1
Koštana srž	0,4

Tablica 10. AKCIJSKE RAZINE KONCENTRACIJE AKTIVNOSTI ZA HRANU I VODU ZA PIĆE

Radionuklidi	Hrana i namirnice u općoj uporabi (kBq/kg)	Mlijeko, dječja hrana i voda za piće (kBq/kg)
Cs-134, Cs-137, Ru-103 Ru-106, Sr-89	1	1
J-131		0,1
Sr-90	0,1	
Am-241, Pu-238, Pu-239	0,01	0,001