

18. („ 88/07) 61. (2)
(„ 32/02 102/09),

-

1.
()

2.
()

3.
()

(1)

1 1

(2)

a)

b)

c)

d)

e)

f)

0,4 Bq/cm²
0,04 Bq/cm²

1 1 10 ;
- - -
4.
()

a)

(LSA):

1) LSA-I :

-

- ;

- ;
-

A₂

30
1 2 1

2) LSA-II :

-

0,8 TBq/l;

10⁻⁴ A₂/g

10⁻⁵ A₂/g

3) LSA-III :

(

),

-

(. , . . .);

-

A₂;

0,1

$$2 \times 10^{-3} \text{ A}_2/\text{g}.$$

b) (SCO):

1) SCO-I

300 cm² (300
 cm²) 4 Bq/cm² -
 0,4 Bq/cm² ;
 300 cm² (300 cm²)
 4 x 10⁴ Bq/cm² -
 4 x 10³ Bq/cm² ;
 300 cm² (300 cm²)
 Bq/cm² z 4 x 10⁴
 4 x 10³ Bq/cm² z

2) SCO-II

SCO-I :
 300 cm² (300
 cm²) 400 Bq/cm² -
 40 Bq/cm² -
 ;
 300 cm² (300 cm²)
 8 x 10⁵ Bq/cm² -
 8 x 10⁴ Bq/cm² ;
 300 cm² (300 cm²)
 Bq/cm² 8 x 10⁵
 8 x 10⁴ Bq/cm² z

c)

5 mm.

- d) :
- 10 mSv/h. 3 m
- e) : -233, -235, -239, -241
- f) A_1 : 1 1
- g) A_2 : 1 1
- h) :
- i) :
- j) : 0,4 Bq/cm²
0,04 Bq/cm²
- k) :
- l) :
- m) :
- 3 m³. 1,5 m a
- n) -238, -232 : -230 ; -235
10 ;
- o) :

p) :

q) :

r) :

s) :

t) :

u) :

v) :

w) :

x) :

1 1

y) :

z) (TI): LSA-I SCO-I

aa) :

(5.)

(6.)

(1)

(2) (1)

(3) (1)

(4) (3) :

a)

b) ; 55 ;

c)

(7.)

(8.)

-

I -

(UN 9.)

(1) 3 1 UN

(2) UN (1)

(10.)

A_1 A_2 ,

1 1

(11.)

:

$$X_m = \frac{1}{\sum_i \frac{f(i)}{X(i)}}$$

X(i) f(i) ;
 A₁ A₂ i. X_m j
 A₁ A₂

12.

()

2 1

II –

13.

()

:

- a) material); – LSA (eng. low specific activity
- b) objects); e – SCO (eng. surface contaminated
- c) ;
- d) ;
- e)

14.

()

LSA SCO

15.

()

16.

()

- a) ;
- b) (IP-1, IP-2, IP-3);
- c) A;

- d) B(U);
- e) B(M);
- f) C.

17.

()

(1)

(2)

18.

()

:

a)

b)

4

1

;

c)

d)

4

1

19.

()

(1)

(2) (3)

(2)

a)

b)

- A₂.

- A₁;

(3)

ne se imiјеt

A:

$$\sum_i \frac{B(i)}{A_1(i)} + \sum_j \frac{C(j)}{A_2(j)} \leq 1$$

B(i)

; A₁(i) A₁

(i)

(i); C(j)

(j)
; A₂(j) je A₂

(j).

20.

()

B(U),

B(M)

C

21.
B(U)

(1) B(U)

- a)
- b)
- c)

(2) B(U)

22.
B(M)

(1) B(M)

- a)
- b)
- c)

(2) B(M)

23.
()

B(U)

B(M)

:

a)

b)

c)

24.
C

(1) C

- a)
- b)
- c)

(2) C

-
I -

(25.)

0,04 Bq/cm² 0,4 Bq/cm²

(26.)

(1)

- a) 4 Bq/cm²
- b) 0,4 Bq/cm²

(2)

300 cm²

(27.)

31,

26.

(28.)

(1)

(2)

(1)

(3)

(4)

29.

()

(1)

(2)

(3)

30.

()

(1)

31,

26,

5 $\mu\text{Sv/h}$

(2)

(1)

26

5 $\mu\text{Sv/h}$

31.

()

27 30

11 -

32.

()

(1)

(2)

(33.)

III –
, LSA SCO

(34.)

5 μSv/h.

(LSA SCO 35.)

LSA SCO IP-1, IP-2,
IP-3, 3 m 10 mSv/h.

(36. LSA-I SCO-I)

LSA SCO : LSA-I SCO-I

a)

b)

SCO-I

c) SCO-I,

26,

(37. LSA SCO)

LSA SCO, 5 1 36,

IV –

38.

()

(1)

(TI)

LSA-I SCO-I

a)

(mSv/h)

1 m

LSA-I SCO-I

100

1 m

- 1) 0,4 mSv/h
- 2) 0,3 mSv/h
- 3) 0,02 mSv/h

b)

6

1

a)

LSA-I SCO-I,

c)

0,05

a) b)

(2)

39.

(I)

10

40.

()

(1)

2 mSv/h,

(2)

10 mSv/h.

V –

(41.)

:

- a) I-WHITE;
- b) II-YELLOW;
- c) III-YELLOW.

(42.)

41 7 1

:

a)

b)

I-WHITE

c)

d)

38.
2 mSv/h,

e)

III-YELLOW.

f)

III-YELLOW.

VI –

(43.)

(1)

3 1 UN

(2)

(3)

UN 8 1

(44.)

(1)

"TYPE IP-1", "TYPE IP-2" I "TYPE IP-3"

(2)

"TYPE A".

(3) IP-2, IP-3 TYPE A (VRI
).

(4) C B(U), B(M)

(5) B(U), B(M) C 1 2

45.
()

50 kg

46.
(LSA SCO)

LSA-I SCO-I, "RADIOACTIVE LSA-I"

"RADIOACTIVE SCO-I".

47.
()

(1)

(2)

41.

(3)

2, 3 4 2

(4)

(5)

(4)

48.
()

47

a) 1 "CONTENTS" (): 1
LSA-I

SCO-I SCO-II LSA-I, LSA-I LSA-II, LSA-III,

b) "ACTIVITY" (): SI (Bq),

SI
(g), ()

c) „CONTENTS“ „ACTIVITY“

„.

d) „TRANSPORT INDEX“:
38 (I-WHITE)

49.

()

(1) 5 2 da

(2) (1)

(3) (1) 51,

50.

()

SCO-I,

, LSA-I

UN

UN

3 1
65 mm

6 2

VII –

51.

()

52.

()

a) UN 43

b) „UN“ ; 3 1 ;

- c) UN „7“;
- d) ()
- e) ;
- f) ;
- g) (Bq) SI ;
- h) I-WHITE, II-YELLOW, III-YELLOW;
- i) II-YELLOW III-YELLOW;
- j) () ; a) j)
- k) „EXCLUSIVE USE SHIPMENT“;
- l) Za LSA-II, LSA-III, SCO-I SCO-II, A₂ A₂ ;
- (1) () 53. ;
- (2) : “I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations”.
- (3) (1) (2)
- (4) () 54. ;
- a) ;
- b) ;

c)

VIII –

55.

()

(1)

a)

5 mSv

b)

1 mSv

c)

0,1 mSv

d)

(2)

II-YELLOW

III-YELLOW

56.

()

(1)

(2)

a)

15 W/m²;

b)

c)

(3)

a)

LSA-I

b)

1

2 mSv/h

9

0,1 mSv/h

2 m

64.

(4) TI 10,

57.

()

(1) 2, 3

4 2
2 :

- a)
- b)

(2)

(3)

100 mm. 5 2

(4)

58.

()

(1) LSA-I
SCO-I

mm UN : UN 65

a) 5 2

b) 6 2

(2) b),

59.

()

(1)

a) 10 mSv/h
2 mSv/h :

1)

2)

3)

b) 2 mSv/h

c) 0,1 mSv/h

2 m

2 m

60.

()

(1)

ADR

(2)

II-YELLOW

III-YELLOW.

61.

()

1) B(M)

2) B(M)

3) mSv/h

2

62.

()

(1)

4 1

(2)

4 1

- a)
- b)
- c)
- d)
- e)

: („RADIOACTIVE MATERIAL – QUANTITIES PERMITTED FOR MOVEMENT BY POST“).

63.

()

(1)

(2)

64.

()

65.

()

- a)
- b)
- c)
- d)
- e)
- f)
- g)
- h)

i)

(66.)

(1)

(2)

(3)

-

(67.)

(68.)

"

"

:01-02-919/12

,22.11.2012.

1:

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
(89)				
Ac-225 (a)	8×10^{-1}	6×10^{-3}	1×10^1	1×10^4
Ac-227 (a)	9×10^{-1}	9×10^{-5}	1×10^{-1}	1×10^3
Ac-228	6×10^{-1}	5×10^{-1}	1×10^1	1×10^6
(47)				
Ag-105	2×10^0	2×10^0	1×10^2	1×10^6
Ag-108m (a)	7×10^{-1}	7×10^{-1}	1×10^1 (b)	1×10^6 (b)
Ag-110m (a)	4×10^{-1}	4×10^{-1}	1×10^1	1×10^6
Ag-111	2×10^0	6×10^{-1}	1×10^3	1×10^6
(13)				
Al-26	1×10^{-1}	1×10^{-1}	1×10^1	1×10^5
(95)				
Am-241	1×10^1	1×10^{-3}	1×10^0	1×10^4
Am-242m (a)	1×10^1	1×10^{-3}	1×10^0 (b)	1×10^4 (b)
Am-243 (a)	5×10^0	1×10^{-3}	1×10^0 (b)	1×10^3 (b)
(18)				
Ar-37	4×10^1	4×10^1	1×10^6	1×10^8
Ar-39	4×10^1	2×10^1	1×10^7	1×10^4
Ar-41	3×10^{-1}	3×10^{-1}	1×10^2	1×10^9
(33)				
As-72	3×10^{-1}	3×10^{-1}	1×10^1	1×10^5
As-73	4×10^1	4×10^1	1×10^3	1×10^7
As-74	1×10^0	9×10^{-1}	1×10^1	1×10^6
As-76	3×10^{-1}	3×10^{-1}	1×10^2	1×10^5
As-77	2×10^1	7×10^{-1}	1×10^3	1×10^6
(85)				
At-211 (a)	2×10^1	5×10^{-1}	1×10^3	1×10^7
(79)				
Au-193	7×10^0	2×10^0	1×10^2	1×10^7
Au-194	1×10^0	1×10^0	1×10^1	1×10^6
Au-195	1×10^1	6×10^0	1×10^2	1×10^7
Au-198	1×10^0	6×10^{-1}	1×10^2	1×10^6
Au-199	1×10^1	6×10^{-1}	1×10^2	1×10^6
(56)				
Ba-131 (a)	2×10^0	2×10^0	1×10^2	1×10^6
Ba-133	3×10^0	3×10^0	1×10^2	1×10^6
Ba-133m	2×10^1	6×10^{-1}	1×10^2	1×10^6
Ba-140 (a)	5×10^{-1}	3×10^{-1}	1×10^1 (b)	1×10^5 (b)
(4)				
Be-7	2×10^1	2×10^1	1×10^3	1×10^7
Be-10	4×10^1	6×10^{-1}	1×10^4	1×10^6

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
(83)				
Bi-205	7×10^{-1}	7×10^{-1}	1×10^1	1×10^6
Bi-206	3×10^{-1}	3×10^{-1}	1×10^1	1×10^5
Bi-207	7×10^{-1}	7×10^{-1}	1×10^1	1×10^6
Bi-210	1×10^0	6×10^{-1}	1×10^3	1×10^6
Bi-210m (a)	6×10^{-1}	2×10^{-2}	1×10^1	1×10^5
Bi-212 (a)	7×10^{-1}	6×10^{-1}	1×10^1 (b)	1×10^5 (b)
(97)				
Bk-247	8×10^0	8×10^{-4}	1×10^0	1×10^4
Bk-249 (a)	4×10^1	3×10^{-1}	1×10^3	1×10^6
(35)				
Br-76	4×10^{-1}	4×10^{-1}	1×10^1	1×10^5
Br-77	3×10^0	3×10^0	1×10^2	1×10^6
Br-82	4×10^{-1}	4×10^{-1}	1×10^1	1×10^6
(6)				
C-11	1×10^0	6×10^{-1}	1×10^1	1×10^6
C-14	4×10^1	3×10^0	1×10^4	1×10^7
(20)				
Ca-41			1×10^5	1×10^7
Ca-45	4×10^1	1×10^0	1×10^4	1×10^7
Ca-47 (a)	3×10^0	3×10^{-1}	1×10^1	1×10^6
(48)				
Cd-109	3×10^1	2×10^0	1×10^4	1×10^6
Cd-113m	4×10^1	5×10^{-1}	1×10^3	1×10^6
Cd-115 (a)	3×10^0	4×10^{-1}	1×10^2	1×10^6
Cd-115m	5×10^{-1}	5×10^{-1}	1×10^3	1×10^6
(58)				
Ce-139	7×10^0	2×10^0	1×10^2	1×10^6
Ce-141	2×10^1	6×10^{-1}	1×10^2	1×10^7
Ce-143	9×10^{-1}	6×10^{-1}	1×10^2	1×10^6
Ce-144 (a)	2×10^{-1}	2×10^{-1}	1×10^2 (b)	1×10^5 (b)
(98)				
Cf-248	4×10^1	6×10^{-3}	1×10^1	1×10^4
Cf-249	3×10^0	8×10^{-4}	1×10^0	1×10^3
Cf-250	2×10^1	2×10^{-3}	1×10^1	1×10^4
Cf-251	7×10^0	7×10^{-4}	1×10^0	1×10^3
Cf-252	1×10^{-1}	3×10^{-3}	1×10^1	1×10^4
Cf-253 (a)	4×10^1	4×10^{-2}	1×10^2	1×10^5
Cf-254	1×10^{-3}	1×10^{-3}	1×10^0	1×10^3
(17)				
Cl-36	1×10^1	6×10^{-1}	1×10^4	1×10^6
Cl-38	2×10^{-1}	2×10^{-1}	1×10^1	1×10^5

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
(96)				
Cm-240	4×10^1	2×10^{-2}	1×10^2	1×10^5
Cm-241	2×10^0	1×10^0	1×10^2	1×10^6
Cm-242	4×10^1	1×10^{-2}	1×10^2	1×10^5
Cm-243	9×10^0	1×10^{-3}	1×10^0	1×10^4
Cm-244	2×10^1	2×10^{-3}	1×10^1	1×10^4
Cm-245	9×10^0	9×10^{-4}	1×10^0	1×10^3
Cm-246	9×10^0	9×10^{-4}	1×10^0	1×10^3
Cm-247 (a)	3×10^0	1×10^{-3}	1×10^0	1×10^4
Cm-248	2×10^{-2}	3×10^{-4}	1×10^0	1×10^3
(27)				
Co-55	5×10^{-1}	5×10^{-1}	1×10^1	1×10^6
Co-56	3×10^{-1}	3×10^{-1}	1×10^1	1×10^5
Co-57	1×10^1	1×10^1	1×10^2	1×10^6
Co-58	1×10^0	1×10^0	1×10^1	1×10^6
Co-58m	4×10^1	4×10^1	1×10^4	1×10^7
Co-60	4×10^{-1}	4×10^{-1}	1×10^1	1×10^5
(24)				
Cr-51	3×10^1	3×10^1	1×10^3	1×10^7
(55)				
Cs-129	4×10^0	4×10^0	1×10^2	1×10^5
Cs-131	3×10^1	3×10^1	1×10^3	1×10^6
Cs-132	1×10^0	1×10^0	1×10^1	1×10^5
Cs-134	7×10^{-1}	7×10^{-1}	1×10^1	1×10^4
Cs-134m	4×10^1	6×10^{-1}	1×10^3	1×10^5
Cs-135	4×10^1	1×10^0	1×10^4	1×10^7
Cs-136	5×10^{-1}	5×10^{-1}	1×10^1	1×10^5
Cs-137 (a)	2×10^0	6×10^{-1}	1×10^1 (b)	1×10^4 (b)
(29)				
Cu-64	6×10^0	1×10^0	1×10^2	1×10^6
Cu-67	1×10^1	7×10^{-1}	1×10^2	1×10^6
(66)				
Dy-159	2×10^1	2×10^1	1×10^3	1×10^7
Dy-165	9×10^{-1}	6×10^{-1}	1×10^3	1×10^6
Dy-166 (a)	9×10^{-1}	3×10^{-1}	1×10^3	1×10^6
(68)				
Er-169	4×10^1	1×10^0	1×10^4	1×10^7
Er-171	8×10^{-1}	5×10^{-1}	1×10^2	1×10^6
(63)				
Eu-147	2×10^0	2×10^0	1×10^2	1×10^6
Eu-148	5×10^{-1}	5×10^{-1}	1×10^1	1×10^6
Eu-149	2×10^1	2×10^1	1×10^2	1×10^7

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
Eu-150 ()	2×10^0	7×10^{-1}	1×10^3	1×10^6
Eu-150 ()	7×10^{-1}	7×10^{-1}	1×10^1	1×10^6
Eu-152	1×10^0	1×10^0	1×10^1	1×10^6
Eu-152m	8×10^{-1}	8×10^{-1}	1×10^2	1×10^6
Eu-154	9×10^{-1}	6×10^{-1}	1×10^1	1×10^6
Eu-155	2×10^1	3×10^0	1×10^2	1×10^7
Eu-156	7×10^{-1}	7×10^{-1}	1×10^1	1×10^6
(9)				
F-18	1×10^0	6×10^{-1}	1×10^1	1×10^6
Fe-52 (a)				
Fe-52 (a)	3×10^{-1}	3×10^{-1}	1×10^1	1×10^6
Fe-55	4×10^1	4×10^1	1×10^4	1×10^6
Fe-59	9×10^{-1}	9×10^{-1}	1×10^1	1×10^6
Fe-60 (a)	4×10^1	2×10^{-1}	1×10^2	1×10^5
(31)				
Ga-67	7×10^0	3×10^0	1×10^2	1×10^6
Ga-68	5×10^{-1}	5×10^{-1}	1×10^1	1×10^5
Ga-72	4×10^{-1}	4×10^{-1}	1×10^1	1×10^5
(64)				
Gd-146 (a)	5×10^{-1}	5×10^{-1}	1×10^1	1×10^6
Gd-148	2×10^1	2×10^{-3}	1×10^1	1×10^4
Gd-153	1×10^1	9×10^0	1×10^2	1×10^7
Gd-159	3×10^0	6×10^{-1}	1×10^3	1×10^6
(32)				
Ge-68 (a)	5×10^{-1}	5×10^{-1}	1×10^1	1×10^5
Ge-71	4×10^1	4×10^1	1×10^4	1×10^8
Ge-77	3×10^{-1}	3×10^{-1}	1×10^1	1×10^5
(72)				
Hf-172 (a)	6×10^{-1}	6×10^{-1}	1×10^1	1×10^6
Hf-175	3×10^0	3×10^0	1×10^2	1×10^6
Hf-181	2×10^0	5×10^{-1}	1×10^1	1×10^6
Hf-182			1×10^2	1×10^6
(80)				
Hg-194 (a)	1×10^0	1×10^0	1×10^1	1×10^6
Hg-195m (a)	3×10^0	7×10^{-1}	1×10^2	1×10^6
Hg-197	2×10^1	1×10^1	1×10^2	1×10^7
Hg-197m	1×10^1	4×10^{-1}	1×10^2	1×10^6
Hg-203	5×10^0	1×10^0	1×10^2	1×10^5
(67)				
Ho-166	4×10^{-1}	4×10^{-1}	1×10^3	1×10^5
Ho-166m	6×10^{-1}	5×10^{-1}	1×10^1	1×10^6
(53)				
I123	6×10^0	3×10^0	1×10^2	1×10^7
I-124	1×10^0	1×10^0	1×10^1	1×10^6
I-125	2×10^1	3×10^0	1×10^3	1×10^6

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
I-126	2×10^0	1×10^0	1×10^2	1×10^6
I-129			1×10^2	1×10^5
I-131	3×10^0	7×10^{-1}	1×10^2	1×10^6
I-132	4×10^{-1}	4×10^{-1}	1×10^1	1×10^5
I-133	7×10^{-1}	6×10^{-1}	1×10^1	1×10^6
I-134	3×10^{-1}	3×10^{-1}	1×10^1	1×10^5
I-135 (a)	6×10^{-1}	6×10^{-1}	1×10^1	1×10^6
(49)				
In-111	3×10^0	3×10^0	1×10^2	1×10^6
In-113m	4×10^0	2×10^0	1×10^2	1×10^6
In-114m (a)	1×10^1	5×10^{-1}	1×10^2	1×10^6
In-115m	7×10^0	1×10^0	1×10^2	1×10^6
(77)				
Ir-189 (a)	1×10^1	1×10^1	1×10^2	1×10^7
Ir-190	7×10^{-1}	7×10^{-1}	1×10^1	1×10^6
Ir-192	1×10^0 (c)	6×10^{-1}	1×10^1	1×10^4
Ir-194	3×10^{-1}	3×10^{-1}	1×10^2	1×10^5
(19)				
K-40	9×10^{-1}	9×10^{-1}	1×10^2	1×10^6
K-42	2×10^{-1}	2×10^{-1}	1×10^2	1×10^6
K-43	7×10^{-1}	6×10^{-1}	1×10^1	1×10^6
(36)				
Kr-79	4×10^0	2×10^0	1×10^3	1×10^5
Kr-81	4×10^1	4×10^1	1×10^4	1×10^7
Kr-85	1×10^1	1×10^1	1×10^5	1×10^4
Kr-85m	8×10^0	3×10^0	1×10^3	1×10^{10}
Kr-87	2×10^{-1}	2×10^{-1}	1×10^2	1×10^9
(57)				
La-137	3×10^1	6×10^0	1×10^3	1×10^7
La-140	4×10^{-1}	4×10^{-1}	1×10^1	1×10^5
(71)				
Lu-172	6×10^{-1}	6×10^{-1}	1×10^1	1×10^6
Lu-173	8×10^0	8×10^0	1×10^2	1×10^7
Lu-174	9×10^0	9×10^0	1×10^2	1×10^7
Lu-174m	2×10^1	1×10^1	1×10^2	1×10^7
Lu-177	3×10^1	7×10^{-1}	1×10^3	1×10^7
(12)				
Mg-28 (a)	3×10^{-1}	3×10^{-1}	1×10^1	1×10^5
(25)				
Mn-52	3×10^{-1}	3×10^{-1}	1×10^1	1×10^5
Mn-53			1×10^4	1×10^9
Mn-54	1×10^0	1×10^0	1×10^1	1×10^6
Mn-56	3×10^{-1}	3×10^{-1}	1×10^1	1×10^5

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
(42)				
Mo-93	4×10^1	2×10^1	1×10^3	1×10^8
Mo-99 (a)	1×10^0	6×10^{-1}	1×10^2	1×10^6
(7)				
N-13	9×10^{-1}	6×10^{-1}	1×10^2	1×10^9
(11)				
Na-22	5×10^{-1}	5×10^{-1}	1×10^1	1×10^6
Na-24	2×10^{-1}	2×10^{-1}	1×10^1	1×10^5
(41)				
Nb-93m	4×10^1	3×10^1	1×10^4	1×10^7
Nb-94	7×10^{-1}	7×10^{-1}	1×10^1	1×10^6
Nb-95	1×10^0	1×10^0	1×10^1	1×10^6
Nb-97	9×10^{-1}	6×10^{-1}	1×10^1	1×10^6
(60)				
Nd-147	6×10^0	6×10^{-1}	1×10^2	1×10^6
Nd-149	6×10^{-1}	5×10^{-1}	1×10^2	1×10^6
(28)				
Ni-59			1×10^4	1×10^8
Ni-63	4×10^1	3×10^1	1×10^5	1×10^8
Ni-65	4×10^{-1}	4×10^{-1}	1×10^1	1×10^6
(93)				
Np-235	4×10^1	4×10^1	1×10^3	1×10^7
Np-236 ()	2×10^1	2×10^0	1×10^3	1×10^7
Np-236 ()	9×10^0	2×10^{-2}	1×10^2	1×10^5
Np-237	2×10^1	2×10^{-3}	1×10^0 (b)	1×10^3 (b)
Np-239	7×10^0	4×10^{-1}	1×10^2	1×10^7
(76)				
Os-185	1×10^0	1×10^0	1×10^1	1×10^6
Os-191	1×10^1	2×10^0	1×10^2	1×10^7
Os-191m	4×10^1	3×10^1	1×10^3	1×10^7
Os-193	2×10^0	6×10^{-1}	1×10^2	1×10^6
Os-194 (a)	3×10^{-1}	3×10^{-1}	1×10^2	1×10^5
(15)				
P-32	5×10^{-1}	5×10^{-1}	1×10^3	1×10^5
P-33	4×10^1	1×10^0	1×10^5	1×10^8
(91)				
Pa-230 (a)	2×10^0	7×10^{-2}	1×10^1	1×10^6
Pa-231	4×10^0	4×10^{-4}	1×10^0	1×10^3
Pa-233	5×10^0	7×10^{-1}	1×10^2	1×10^7
(82)				
Pb-201	1×10^0	1×10^0	1×10^1	1×10^6
Pb-202	4×10^1	2×10^1	1×10^3	1×10^6
Pb-203	4×10^0	3×10^0	1×10^2	1×10^6
Pb-205			1×10^4	1×10^7

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
Pb-210 (a)	1 × 10 ⁰	5 × 10 ⁻²	1 × 10 ¹ (b)	1 × 10 ⁴ (b)
Pb-212 (a)	7 × 10 ⁻¹	2 × 10 ⁻¹	1 × 10 ¹ (b)	1 × 10 ⁵ (b)
(46)				
Pd-103 (a)	4 × 10 ¹	4 × 10 ¹	1 × 10 ³	1 × 10 ⁸
Pd-107			1 × 10 ⁵	1 × 10 ⁸
Pd-109	2 × 10 ⁰	5 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶
(61)				
Pm-143	3 × 10 ⁰	3 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Pm-144	7 × 10 ⁻¹	7 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Pm-145	3 × 10 ¹	1 × 10 ¹	1 × 10 ³	1 × 10 ⁷
Pm-147	4 × 10 ¹	2 × 10 ⁰	1 × 10 ⁴	1 × 10 ⁷
Pm-148m (a)	8 × 10 ⁻¹	7 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Pm-149	2 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶
Pm-151	2 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁶
(84)				
Po-210	4 × 10 ¹	2 × 10 ⁻²	1 × 10 ¹	1 × 10 ⁴
(59)				
Pr-142	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁵
Pr-143	3 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ⁴	1 × 10 ⁶
(78)				
Pt-188 (a)	1 × 10 ⁰	8 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Pt-191	4 × 10 ⁰	3 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Pt-193	4 × 10 ¹	4 × 10 ¹	1 × 10 ⁴	1 × 10 ⁷
Pt-193m	4 × 10 ¹	5 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁷
Pt-195m	1 × 10 ¹	5 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁶
Pt-197	2 × 10 ¹	6 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶
Pt-197m	1 × 10 ¹	6 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁶
(94)				
Pu-236	3 × 10 ¹	3 × 10 ⁻³	1 × 10 ¹	1 × 10 ⁴
Pu-237	2 × 10 ¹	2 × 10 ¹	1 × 10 ³	1 × 10 ⁷
Pu-238	1 × 10 ¹	1 × 10 ⁻³	1 × 10 ⁰	1 × 10 ⁴
Pu-239	1 × 10 ¹	1 × 10 ⁻³	1 × 10 ⁰	1 × 10 ⁴
Pu-240	1 × 10 ¹	1 × 10 ⁻³	1 × 10 ⁰	1 × 10 ³
Pu-241 (a)	4 × 10 ¹	6 × 10 ⁻²	1 × 10 ²	1 × 10 ⁵
Pu-242	1 × 10 ¹	1 × 10 ⁻³	1 × 10 ⁰	1 × 10 ⁴
Pu-244 (a)	4 × 10 ⁻¹	1 × 10 ⁻³	1 × 10 ⁰	1 × 10 ⁴
(88)				
Ra-223 (a)	4 × 10 ⁻¹	7 × 10 ⁻³	1 × 10 ² (b)	1 × 10 ⁵ (b)
Ra-224 (a)	4 × 10 ⁻¹	2 × 10 ⁻²	1 × 10 ¹ (b)	1 × 10 ⁵ (b)
Ra-225 (a)	2 × 10 ⁻¹	4 × 10 ⁻³	1 × 10 ²	1 × 10 ⁵
Ra-226 (a)	2 × 10 ⁻¹	3 × 10 ⁻³	1 × 10 ¹ (b)	1 × 10 ⁴ (b)
Ra-228 (a)	6 × 10 ⁻¹	2 × 10 ⁻²	1 × 10 ¹ (b)	1 × 10 ⁵ (b)
(37)				
Rb-81	2 × 10 ⁰	8 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Rb-83 (a)	2 × 10 ⁰	2 × 10 ⁰	1 × 10 ²	1 × 10 ⁶

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
Rb-84	1 × 10 ⁰	1 × 10 ⁰	1 × 10 ¹	1 × 10 ⁶
Rb-86	5 × 10 ⁻¹	5 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁵
Rb-87			1 × 10 ⁴	1 × 10 ⁷
Rb ()			1 × 10 ⁴	1 × 10 ⁷
(75)				
Re-184	1 × 10 ⁰	1 × 10 ⁰	1 × 10 ¹	1 × 10 ⁶
Re-184m	3 × 10 ⁰	1 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Re-186	2 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶
Re-187			1 × 10 ⁶	1 × 10 ⁹
Re-188	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁵
Re-189 (a)	3 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁶
Re ()			1 × 10 ⁶	1 × 10 ⁹
(45)				
Rh-99	2 × 10 ⁰	2 × 10 ⁰	1 × 10 ¹	1 × 10 ⁶
Rh-101	4 × 10 ⁰	3 × 10 ⁰	1 × 10 ²	1 × 10 ⁷
Rh-102	5 × 10 ⁻¹	5 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Rh-102m	2 × 10 ⁰	2 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Rh-103m	4 × 10 ¹	4 × 10 ¹	1 × 10 ⁴	1 × 10 ⁸
Rh-105	1 × 10 ¹	8 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁷
(86)				
Rn-222 (a)	3 × 10 ⁻¹	4 × 10 ⁻³	1 × 10 ¹ (b)	1 × 10 ⁸ (b)
(44)				
Ru-97	5 × 10 ⁰	5 × 10 ⁰	1 × 10 ²	1 × 10 ⁷
Ru-103 (a)	2 × 10 ⁰	2 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Ru-105	1 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Ru-106 (a)	2 × 10 ⁻¹	2 × 10 ⁻¹	1 × 10 ² (b)	1 × 10 ⁵ (b)
(16)				
S-35	4 × 10 ¹	3 × 10 ⁰	1 × 10 ⁵	1 × 10 ⁸
(51)				
Sb-122	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁴
Sb-124	6 × 10 ⁻¹	6 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Sb-125	2 × 10 ⁰	1 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Sb-126	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁵
(21)				
Sc-44	5 × 10 ⁻¹	5 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁵
Sc-46	5 × 10 ⁻¹	5 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Sc-47	1 × 10 ¹	7 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁶
Sc-48	3 × 10 ⁻¹	3 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁵
(34)				
Se-75	3 × 10 ⁰	3 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Se-79	4 × 10 ¹	2 × 10 ⁰	1 × 10 ⁴	1 × 10 ⁷
(14)				
Si-31	6 × 10 ⁻¹	6 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶
Si-32	4 × 10 ¹	5 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
(62)				
Sm-145	1 × 10 ¹	1 × 10 ¹	1 × 10 ²	1 × 10 ⁷
Sm-147			1 × 10 ¹	1 × 10 ⁴
Sm-151	4 × 10 ¹	1 × 10 ¹	1 × 10 ⁴	1 × 10 ⁸
Sm-153	9 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁶
(50)				
Sn-113 (a)	4 × 10 ⁰	2 × 10 ⁰	1 × 10 ³	1 × 10 ⁷
Sn-117m	7 × 10 ⁰	4 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁶
Sn-119m	4 × 10 ¹	3 × 10 ¹	1 × 10 ³	1 × 10 ⁷
Sn-121m (a)	4 × 10 ¹	9 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁷
Sn-123	8 × 10 ⁻¹	6 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶
Sn-125	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁵
Sn-126 (a)	6 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁵
(38)				
Sr-82 (a)	2 × 10 ⁻¹	2 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁵
Sr-85	2 × 10 ⁰	2 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Sr-85m	5 × 10 ⁰	5 × 10 ⁰	1 × 10 ²	1 × 10 ⁷
Sr-87m	3 × 10 ⁰	3 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Sr-89	6 × 10 ⁻¹	6 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶
Sr-90 (a)	3 × 10 ⁻¹	3 × 10 ⁻¹	1 × 10 ² (b)	1 × 10 ⁴ (b)
Sr-91 (a)	3 × 10 ⁻¹	3 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁵
Sr-92 (a)	1 × 10 ⁰	3 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
(1)				
T(H-3)	4 × 10 ¹	4 × 10 ¹	1 × 10 ⁶	1 × 10 ⁹
(73)				
Ta-178 ()	1 × 10 ⁰	8 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Ta-179	3 × 10 ¹	3 × 10 ¹	1 × 10 ³	1 × 10 ⁷
Ta-182	9 × 10 ⁻¹	5 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁴
(65)				
Tb-157	4 × 10 ¹	4 × 10 ¹	1 × 10 ⁴	1 × 10 ⁷
Tb-158	1 × 10 ⁰	1 × 10 ⁰	1 × 10 ¹	1 × 10 ⁶
Tb-160	1 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
(43)				
Tc-95m (a)	2 × 10 ⁰	2 × 10 ⁰	1 × 10 ¹	1 × 10 ⁶
Tc-96	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Tc-96m (a)	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁷
Tc-97			1 × 10 ³	1 × 10 ⁸
Tc-97m	4 × 10 ¹	1 × 10 ⁰	1 × 10 ³	1 × 10 ⁷
Tc-98	8 × 10 ⁻¹	7 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Tc-99	4 × 10 ¹	9 × 10 ⁻¹	1 × 10 ⁴	1 × 10 ⁷
Tc-99m	1 × 10 ¹	4 × 10 ⁰	1 × 10 ²	1 × 10 ⁷
(52)				
Te-121	2 × 10 ⁰	2 × 10 ⁰	1 × 10 ¹	1 × 10 ⁶
Te-121m	5 × 10 ⁰	3 × 10 ⁰	1 × 10 ²	1 × 10 ⁶
Te-123m	8 × 10 ⁰	1 × 10 ⁰	1 × 10 ²	1 × 10 ⁷

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
Te-125m	2×10^1	9×10^{-1}	1×10^3	1×10^7
Te-127	2×10^1	7×10^{-1}	1×10^3	1×10^6
Te-127m (a)	2×10^1	5×10^{-1}	1×10^3	1×10^7
Te-129	7×10^{-1}	6×10^{-1}	1×10^2	1×10^6
Te-129m (a)	8×10^{-1}	4×10^{-1}	1×10^3	1×10^6
Te-131m (a)	7×10^{-1}	5×10^{-1}	1×10^1	1×10^6
Te-132 (a)	5×10^{-1}	4×10^{-1}	1×10^2	1×10^7
(90)				
Th-227	1×10^1	5×10^{-3}	1×10^1	1×10^4
Th-228 (a)	5×10^{-1}	1×10^{-3}	1×10^0 (b)	1×10^4 (b)
Th-229	5×10^0	5×10^{-4}	1×10^0 (b)	1×10^3 (b)
Th-230	1×10^1	1×10^{-3}	1×10^0	1×10^4
Th-231	4×10^1	2×10^{-2}	1×10^3	1×10^7
Th-232			1×10^1	1×10^4
Th-234 (a)	3×10^{-1}	3×10^{-1}	1×10^3 (b)	1×10^5 (b)
Th ()			1×10^0 (b)	1×10^3 (b)
(22)				
Ti-44 (a)	5×10^{-1}	4×10^{-1}	1×10^1	1×10^5
(81)				
Tl-200	9×10^{-1}	9×10^{-1}	1×10^1	1×10^6
Tl-201	1×10^1	4×10^0	1×10^2	1×10^6
Tl-202	2×10^0	2×10^0	1×10^2	1×10^6
Tl-204	1×10^1	7×10^{-1}	1×10^4	1×10^4
(69)				
Tm-167	7×10^0	8×10^{-1}	1×10^2	1×10^6
Tm-170	3×10^0	6×10^{-1}	1×10^3	1×10^6
Tm-171	4×10^1	4×10^1	1×10^4	1×10^8
(92)				
U-230 () (a)(d)	4×10^1	1×10^{-1}	1×10^1 (b)	1×10^5 (b)
U-230 () (e)	4×10^1	4×10^{-3}	1×10^1	1×10^4
U-230 () (a)(f)	3×10^1	3×10^{-3}	1×10^1	1×10^4
U-232 () (d)	4×10^1	1×10^{-2}	1×10^0 (b)	1×10^3 (b)
U-232 () (e)	4×10^1	7×10^{-3}	1×10^1	1×10^4
U-232 () (f)	1×10^1	1×10^{-3}	1×10^1	1×10^4
U-233 () (d)	4×10^1	9×10^{-2}	1×10^1	1×10^4
U-233 () (e)	4×10^1	2×10^{-2}	1×10^2	1×10^5

()	A ₁ (TBq)	A ₂ (TBq)	(Bq/g)	(Bq)
U-233 () (f)	4 × 10 ¹	6 × 10 ⁻³	1 × 10 ¹	1 × 10 ⁵
U-234 () (d)	4 × 10 ¹	9 × 10 ⁻²	1 × 10 ¹	1 × 10 ⁴
U-234 () (e)	4 × 10 ¹	2 × 10 ⁻²	1 × 10 ²	1 × 10 ⁵
U-234 () (f)	4 × 10 ¹	6 × 10 ⁻³	1 × 10 ¹	1 × 10 ⁵
U-235 () (a)(d)(e)(f)			1 × 10 ¹ (b)	1 × 10 ⁴ (b)
U-236 () (d)			1 × 10 ¹	1 × 10 ⁴
U-236 () (e)	4 × 10 ¹	2 × 10 ⁻²	1 × 10 ²	1 × 10 ⁵
U-236 () (f)	4 × 10 ¹	6 × 10 ⁻³	1 × 10 ¹	1 × 10 ⁴
U-238 () (d)(e)(f)			1 × 10 ¹ (b)	1 × 10 ⁴ (b)
U ()			1 × 100 (b)	1 × 10 ³ (b)
U () (g) 20%			1 × 10 ⁰	1 × 10 ³
U ()			1 × 10 ⁰	1 × 10 ³
(23)				
V-48	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁵
V-49	4 × 10 ¹	4 × 10 ¹	1 × 10 ⁴	1 × 10 ⁷
(74)				
W-178 (a)	9 × 10 ⁰	5 × 10 ⁰	1 × 10 ¹	1 × 10 ⁶
W-181	3 × 10 ¹	3 × 10 ¹	1 × 10 ³	1 × 10 ⁷
W-185	4 × 10 ¹	8 × 10 ⁻¹	1 × 10 ⁴	1 × 10 ⁷
W-187	2 × 10 ⁰	6 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁶
W-188 (a)	4 × 10 ⁻¹	3 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁵
(54)				
Xe-122 (a)	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁹
Xe-123	2 × 10 ⁰	7 × 10 ⁻¹	1 × 10 ²	1 × 10 ⁹
Xe-127	4 × 10 ⁰	2 × 10 ⁰	1 × 10 ³	1 × 10 ⁵
Xe-131m	4 × 10 ¹	4 × 10 ¹	1 × 10 ⁴	1 × 10 ⁴
Xe-133	2 × 10 ¹	1 × 10 ¹	1 × 10 ³	1 × 10 ⁴
Xe-135	3 × 10 ⁰	2 × 10 ⁰	1 × 10 ³	1 × 10 ¹⁰
(39)				
Y-87 (a)	1 × 10 ⁰	1 × 10 ⁰	1 × 10 ¹	1 × 10 ⁶
Y-88	4 × 10 ⁻¹	4 × 10 ⁻¹	1 × 10 ¹	1 × 10 ⁶
Y-90	3 × 10 ⁻¹	3 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁵
Y-91	6 × 10 ⁻¹	6 × 10 ⁻¹	1 × 10 ³	1 × 10 ⁶

()	A_1 (TBq)	A_2 (TBq)	(Bq/g)	(Bq)
Y-91m	2×10^0	2×10^0	1×10^2	1×10^6
Y-92	2×10^{-1}	2×10^{-1}	1×10^2	1×10^5
Y-93	3×10^{-1}	3×10^{-1}	1×10^2	1×10^5
(70)				
Yb-169	4×10^0	1×10^0	1×10^2	1×10^7
Yb-175	3×10^1	9×10^{-1}	1×10^3	1×10^7
(30)				
Zn-65	2×10^0	2×10^0	1×10^1	1×10^6
Zn-69	3×10^0	6×10^{-1}	1×10^4	1×10^6
Zn-69m (a)	3×10^0	6×10^{-1}	1×10^2	1×10^6
(40)				
Zr-88	3×10^0	3×10^0	1×10^2	1×10^6
Zr-93			1×10^3 (b)	1×10^7 (b)
Zr-95 (a)	2×10^0	8×10^{-1}	1×10^1	1×10^6
Zr-97 (a)	4×10^{-1}	4×10^{-1}	1×10^1 (b)	1×10^5 (b)

(a) A_1 / A_2

10

Mg-28	Al-28
Ar-42	K-42
Ca-47	Sc-47
Ti-44	Sc-44
Fe-52	Mn-52m
Fe-60	Co-60m
Zn-69m	Zn-69
Ge-68	Ga-68
Rb-83	Kr-83m
Sr-82	Rb-82
Sr-90	Y-90
Sr-91	Y-91m
Sr-92	Y-92
Y-87	Sr-87m
Zr-95	Nb-95m
Zr-97	Nb-97m, Nb-97
Mo-99	Tc-99m
Tc-95m	Tc-95
Tc-96m	Tc-96
Ru-103	Rh-103m
Ru-106	Rh-106
Pd-103	Rh-103m

Ag-108m	Ag-108
Ag-110m	Ag-110
Cd-115	In-115m
In-114m	In-114
Sn-113	In-113m
Sn-121m	Sn-121
Sn-126	Sb-126m
Te-118	Sb-118
Te-127m	Te-127
Te-129m	Te-129
Te-131m	Te-131
Te-132	I-132
I-135	Xe-135m
Xe-122	I-122
Cs-137	Ba-137m
Ba-131	Cs-131
Ba-140	La-140
Ce-144	Pr-144m, Pr-144
Pm-148m	Pm-148
Gd-146	Eu-146
Dy-166	Ho-166
Hf-172	Lu-172
W-178	Ta-178
W-188	Re-188
Re-189	Os-189m
Os-194	Ir-194
Ir-189	Os-189m
Pt-188	Ir-188
Hg-194	Au-194
Hg-195m	Hg-195
Pb-210	Bi-210
Pb-212	Bi-212, Tl-208, Po-212
Bi-210m	Tl-206
Bi-212	Tl-208, Po-212
At-211	Po-211
Rn-222	Po-218, Pb-214, At-218, Bi-214, Po-214
Ra-223	Rn-219, Po-215, Pb-211, Bi-211, Po-211, Tl-207
Ra-224	Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
Ra-225	Ac-225, Fr-221, At-217, Bi-213, Tl-209, Po-213, Pb-209
Ra-226	Rn-222, Po-218, Pb-214, At-218, Bi-214, Po-214
Ra-228	Ac-228
Ac-225	Fr-221, At-217, Bi-213, Tl-209, Po-213, Pb-209
Ac-227	Fr-223
Th-228	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
Th-234	Pa-234m, Pa-234
Pa-230	Ac-226, Th-226, Fr-222, Ra-222, Rn-218, Po-214
U-230	Th-226, Ra-222, Rn-218, Po-214

U-235	Th-231
Pu-241	U-237
Pu-244	U-240, Np-240m
Am-242m	Am-242, Np-238
Am-243	Np-239
Cm-247	Pu-243
Bk-249	Am-245
Cf-253	Cm-249

(b) a o o e e a o j a o e a o j o o a

a o o e	o o a / o o e a o j a o e
Sr-90	Y-90
Zr-93	Nb-93m
Zr-97	Nb-97
Ru-106	Rh-106
Ag-108m	Ag-108
Cs-137	Ba-137m
Ce-144	Pr-144
Ba-140	La-140
Bi-212	Tl-208 (0.36), Po-212 (0.64)
Pb-210	Bi-210, Po-210
Pb-212	Bi-212, Tl-208 (0.36), Po-212 (0.64)
Rn-222	Po-218, Pb-214, Bi-214, Po-214
Ra-223	Rn-219, Po-215, Pb-211, Bi-211, Tl-207
Ra-224	Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)
Ra-226	Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210
Ra-228	Ac-228
Th-228	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)
Th-229	Ra-225, Ac-225, Fr-221, At-217, Bi-213, Po-213, Pb-209
Th-	Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)
Th-234	Pa-234m
U-230	Th-226, Ra-222, Rn-218, Po-214
U-232	Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)
U-235	Th-231
U-238	Th-234, Pa-234m
U-	Th-234, Pa-234m, U-234, Th-230, Ra-226, Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210
Np-237	Pa-233
Am-242m	Am-242
Am-243	Np-239

(c)

(d) UF_6 , UO_2F_2 , $UO_2(NO_3)_2$, a o o a a o a e a o a
a o a.

(e) O e je o e je j a o a oje e a a e j o o
 UO_3 , UF_4 , UCl_4 e a a e oje a, a o o a a o
a e a o a a o a.

(f) O e je o e je j a e oje e a a o o a e e
o (d) (e).

(g) O e je o e je j a o a e o a e a , o j a a e
o $2 \cdot 10^3$ Bq o j a o a U-235, a e o $9 \cdot 10^6$ Bq o
o a a o a U-235 a e o $5 \cdot 10^{-3}$ a a U-236 o a U-235.

Table 2: O o e je o a o a a e o a e a o e
Je e

a o a a a j	A_1 (TBq)	A_2 (TBq)	o e a j a a o a e a e j a (Bq/g)	a a a o a e o (Bq)
o oje a o e a a a-e e	0,1	0,2	1×10^1	1×10^4
o oje a a-e e , a e e e a e o a	0,2	9×10^{-5}	1×10^{-1}	1×10^3
o oje e e e o a e o oje e e a e o a je	0,001	9×10^{-5}	1×10^{-1}	1×10^3

3:

UN

UN	
UN 2908	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE — EMPTY PACKAGING
UN 2909	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE — ARTICLES MANUFACTURED FROM NATURAL URANIUM or DEPLETED URANIUM or NATURAL THORIUM
UN 2910	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE — LIMITED QUANTITY OF MATERIAL
UN 2911	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE — INSTRUMENTS or ARTICLES
LSA	
UN 2912	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I), non-fissile or fissile-excepted
UN 3321	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), non-fissile or fissile-excepted
UN 3322	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-III), non-fissile or fissile-excepted
SCO	
UN 2913	RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), non-fissile or fissile-excepted
A	
UN 2915	RADIOACTIVE MATERIAL, TYPE A PACKAGE, non-special form, non-fissile or fissile-excepted
UN 3332	RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, non-fissile or fissile-excepted
B(U)	
UN 2916	RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, non-fissile or fissile-excepted
B(M)	
UN 2917	RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, non-fissile or fissile-excepted
C	
UN 3323	RADIOACTIVE MATERIAL, TYPE C PACKAGE, non-fissile or fissile-excepted
UN 2919	RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, non-fissile or fissile-excepted

4:

:	$10^{-2}A_1$ $10^{-2}A_2$	A_1 A_2	$10^{-3}A_1$ $10^{-3}A_2$
	$10^{-3}A_2$	$10^{-1}A_2$	$10^{-4}A_2$
:	$2 \times 10^{-2}A_2$ $10^{-3}A_1$ $10^{-3}A_2$	$2 \times 10^{-1}A_2$ $10^{-2}A_1$ $10^{-2}A_2$	$2 \times 10^{-2}A_2$ $10^{-3}A_1$ $10^{-3}A_2$

5: LSA SCO

LSA-I ^a	IP-1 IP-1	IP-1 IP-2
LSA-II	IP-2 IP-2	IP-2 IP-3
LSA-III	IP-2	IP-3
SCO-I ^a	IP-1	IP-1
SCO-II	IP-2	IP-2

^a LSA-I SCO-I

14.

6: LSA-I
SCO-I

	^a	
	1 m^2	1
$1 \text{ m}^2 <$	5 m^2	2
$5 \text{ m}^2 <$	20 m^2	3
$20 \text{ m}^2 <$		10

^a

7:

0 ^a		0,005 mSv/h	I-WHITE
1 ^a	0	0,005 mSv/h 0,5 mSv/h	II-YELLOW
10	1	0,5 mSv/h 2 mSv/h	III-YELLOW
	10	2 mSv/h 10 mSv/h	III-YELLOW ^b

a 0,05,

8: UN

	UN (3)
()	UN „UN“
) (UN „UN“
()	UN UN „UN“
()	UN „UN“ UN „UN“ UN
	62

9:

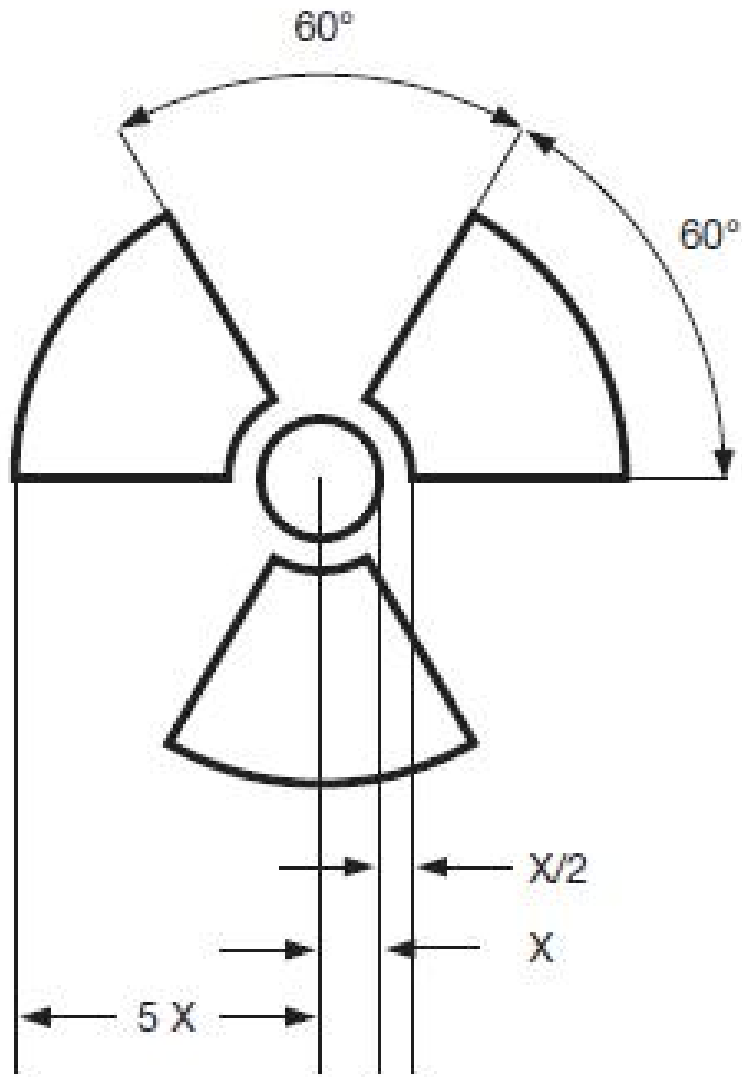
	TI
	50
	50
:	50 200

1.

X.

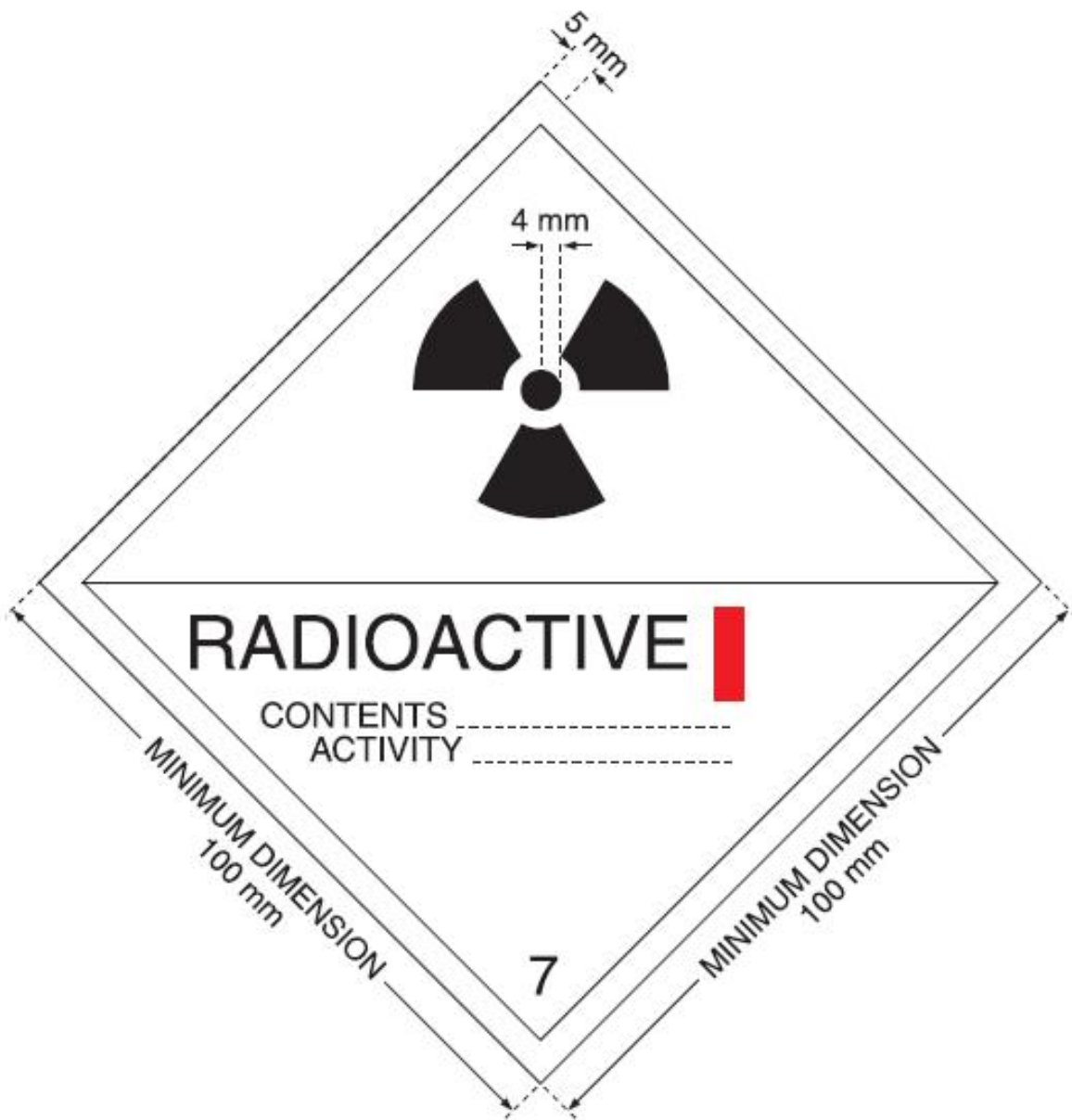
X

4 mm.



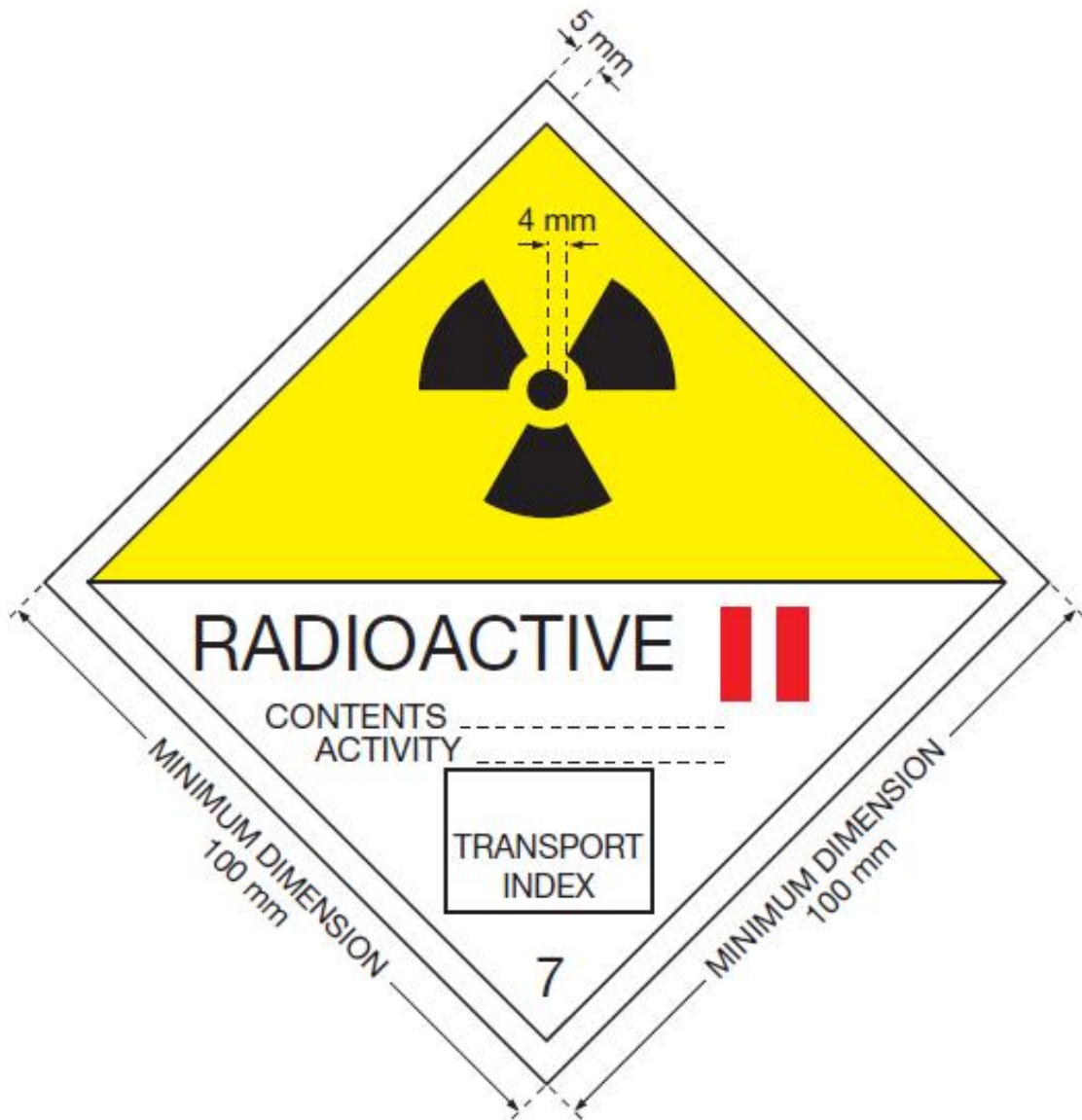
2.

I-WHITE.



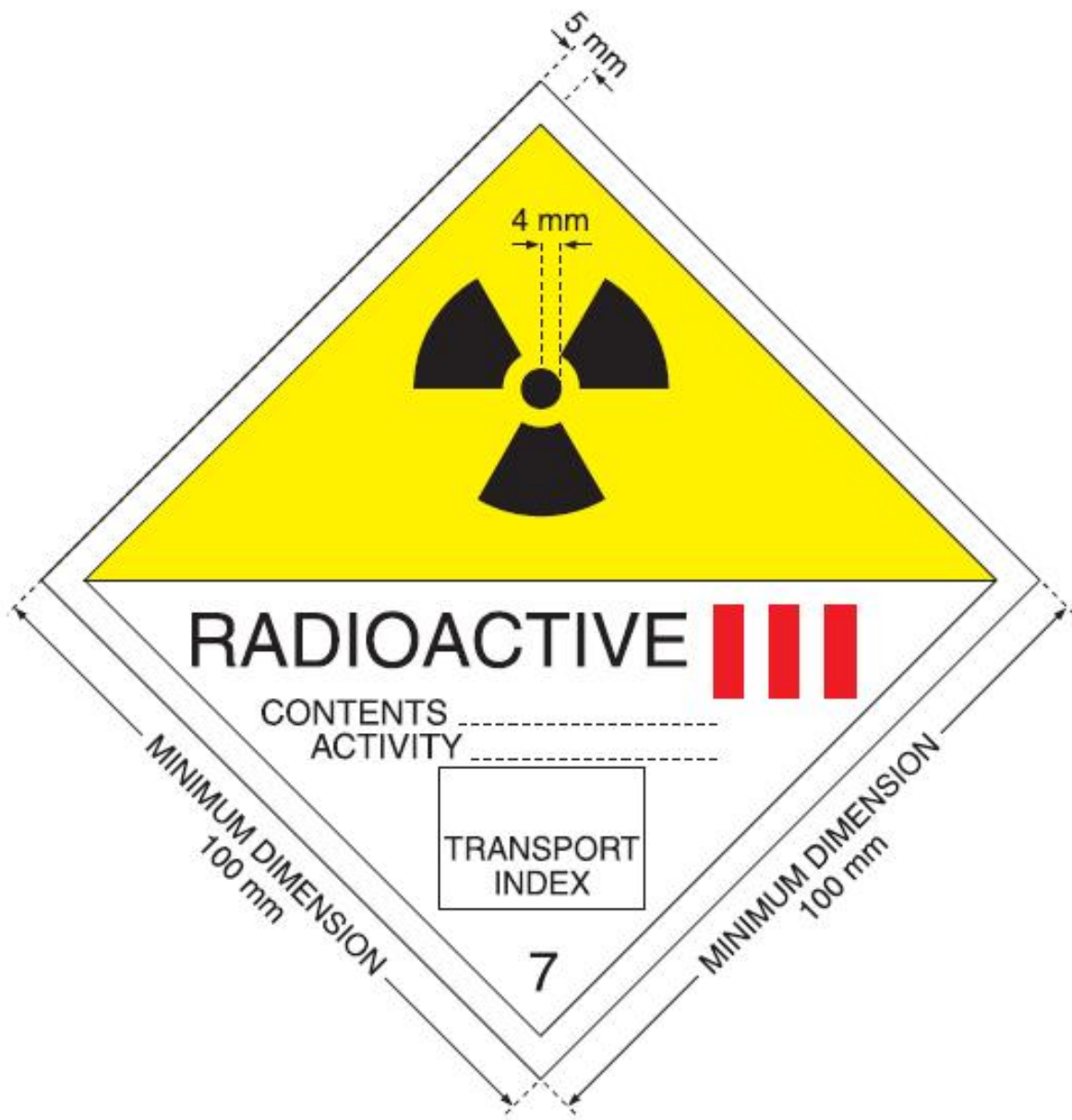
3.

II-YELLOW.



4.

III-YELLOW.



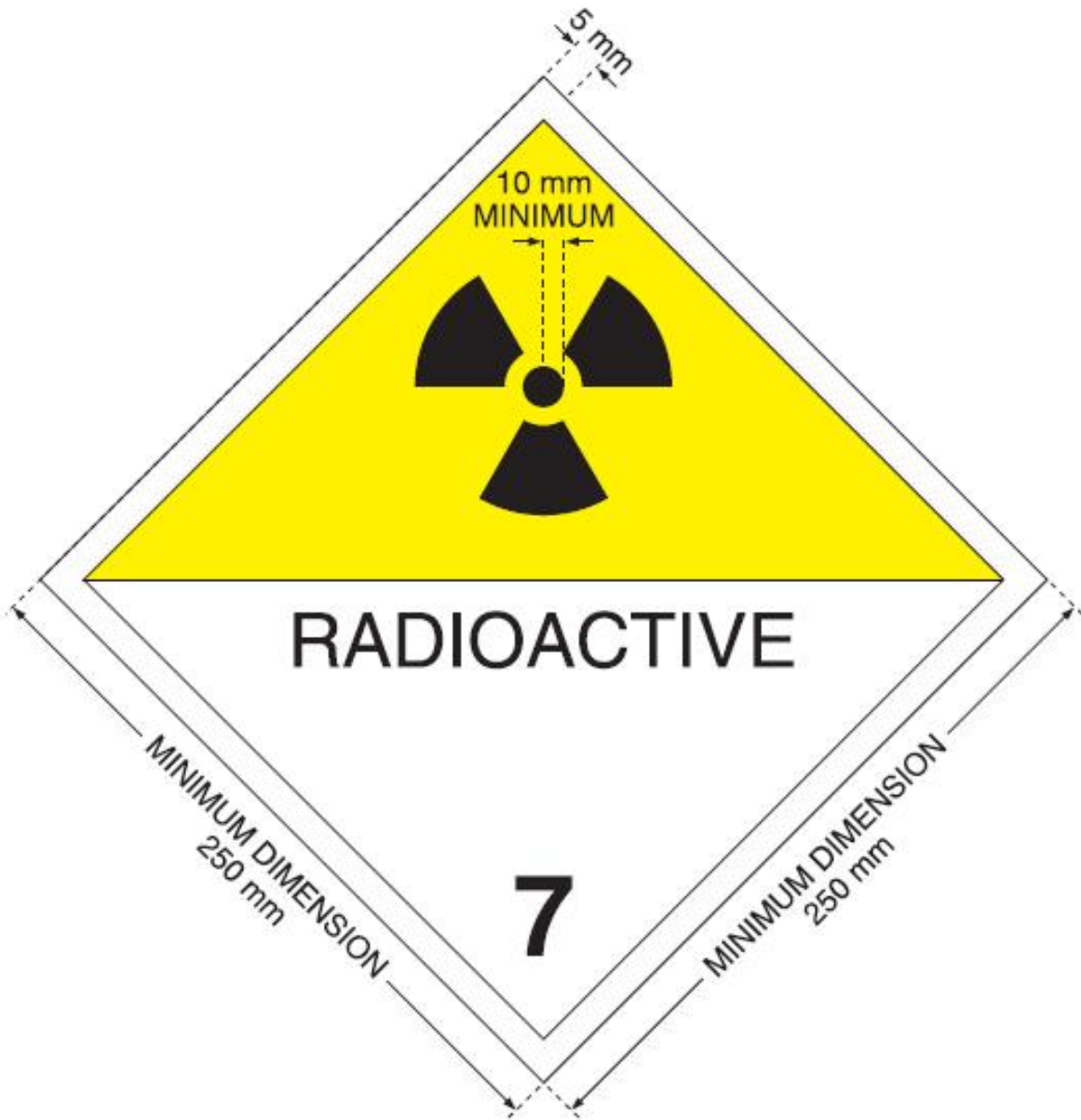
5.
(3)

57

„7“

25 mm.

„RADIOACTIVE“
UN



6.

UN

„****“

UN

