



International Atomic Energy Agency

INDC(CCP)-187/L

INDC

INTERNATIONAL NUCLEAR DATA COMMITTEE

LIBRARY OF NEUTRON GROUP CROSS-SECTIONS FOR RADIATIVE

CAPTURE OF FISSION FRAGMENTS

A.B. Gusev, P.V. Pisarev, V.K. Sergeev and V.V. Rasskazov

Translation from Nuclear Constants 5(44) 29 (1981)

August 1982

IAEA NUCLEAR DATA SECTION, WAGRAMERSTRASSE 5, A-1400 VIENNA

LIBRARY OF NEUTRON GROUP CROSS-SECTIONS FOR RADIATIVE
CAPTURE OF FISSION FRAGMENTS

A.B. Gusev, P.V. Pisarev, V.K. Sergeev and V.V. Rasskazov

Translation from Nuclear Constants 5(44) 29 (1981)

August 1982

LIBRARY OF NEUTRON GROUP CROSS-SECTIONS FOR RADIATIVE
CAPTURE OF FISSION FRAGMENTS

A.B. Gusev, P.V. Pisarev, V.K. Sergeev and V.V. Rasskazov

Multi-group neutron radiative capture cross-sections for fission fragment capture are needed to calculate the neutron physics characteristics of power reactors with existing programs. A 26-group library of these cross-sections with the BNAB group structure [1] was obtained on the basis of the ENDF/B-IV library of evaluated detailed nuclear data [2] provided by the IAEA. Earlier, group cross-sections of the (n,γ) reaction were calculated for fission fragments in the range from 1 keV to 10 MeV [3] from the data of Bruzi and Reffo [4]. Other libraries of detailed nuclear data for fission fragments are also known - Italian (CNEN-2), Japanese (JENDL-1), Dutch (RCN-2) [5] and French (CEA) [6].

ENDF/B-IV was chosen from among the above libraries for compiling our group capture cross-sections for fission fragments because of its completeness: ENDF/B-IV contains files of radioactive decay constants for 824 nuclides and, for 181 of these, total capture, elastic and inelastic scattering cross-sections in the 10^{-5} eV - 20 MeV region. It also contains files of $(n,2n)$, $(n,n'p)$, (n,d) , (n,α) and (n,p) cross-sections for 36 nuclides.

For the resonance region ENDF/B-IV gives resonance parameters and tabulated functions, and the cross-sections are obtained by summation of the resonance and non-resonance parts. For six isotopes (^{93}Nb , ^{103}Rh , ^{149}Sm , ^{152}Eu , ^{153}Eu and ^{154}Eu) the library provides average resonance parameters in the unresolved region.

In determining neutron group cross-sections for the (n,γ) reaction from ENDF/B-IV data, we used programs of the PROPAN complex to calculate the reactor neutron physics characteristics. For this purpose, using a modernized version of the ASPEK-3 program [7], we converted the cross-section library from the ENDF/B-IV format into the SOKRATOR [8] format, which is used for all the other programs. In the slowing down region the group cross-sections were determined by averaging over standard spectra (fission neutron spectrum and Fermi spectrum) with the help of the SPURTC program (from tabulated data, including the non-resonance component in the resonance region) and the SLOGR program (from the resonance parameters of the resolved resonances and the average parameters in the unresolved region for infinite dilution).

In the second case, since ENDF/B-IV gives the resonance parameters for a single-level Breit-Wigner formalism, the following formula was used:

$$\sigma_e(E) = \frac{\pi}{k^2} \sum_e \sum_j g_j \sum_{N_z} \frac{\Gamma_{nz} \Gamma_{fz}}{(E - E'_z)^2 + \frac{1}{4} \Gamma_z^2},$$

where N_z is the number of levels considered and the remaining notation is familiar. In the calculations it was assumed that $N_z = 10$. In the resonance region, the resonance and non-resonance components were summed. The cross-section for the 26th group was determined by interpolation for $E = 0.0253$ eV. We thus obtained the 26-group library of fission fragment capture cross-sections given in Table 1.

In order to verify the accuracy of the multi-group cross-section calculations, we compared the resonance integrals for all fragments with the data given in the commentaries to the ENDF/B-IV library and in Ref. [2]. A comparison was also made of the resonance and non-resonance components in the capture cross-section at the thermal point with the data of the commentaries. Likewise, other verifications were performed. It was shown that for most fission fragments the differences in the resonance integral values do not exceed 1%. For a few isotopes with small resonance integrals, the difference was somewhat larger.

REFERENCES

- [1] ABAGYAN, L.P., BAZAZYANTS, N.O., BONDARENKO, I.I., NIKOLAEV, M.N., Group Constants for Reactor Calculations, Atomizdat, Moscow (1964) [in Russian].
2. Mettes M. Graphs of neutron capture cross-section of fission product isotopes from ENDF-65/ENDF/B-IV. - Phys. Dat., 1973.
- [3] ABAGYAN, L.P., NIKOLAEV, M.N., "Fast neutron group capture cross-sections for fission fragments", in: Nuclear Constants, TsNIIatominform, Moscow (1972) [in Russian].
4. Benai V., Reifo G. Fast neutron radiative capture cross-sections of stable nuclei with $32 \leq Z \leq 66$. - Newsletter Bulletin, C ODF-NW/10, December 1969.
- [5] IIZHIMA, S., "Present status of neutron cross-section data for fission fragments" in: Fission Product Nuclear Data, No. 2, Atomizdat, Moscow (1979) 47-86 [in Russian].

- [6] FORT, E., KREBS, J. et al., "Neutron cross-section for 22 most important fission products", in: Neutron Physics (Proc. Fourth Conf. on Neutron Physics, Kiev, 1977), TsNIIatominform, Moscow (1977).
- [7] KOLESOV, V.E., KRIVTSOV, A.S., SOLOV'EV, N.A., "Software for the computerized neutron nuclear data library of the SOKRATOR system", in: Neutron Physics (Proc. Third All-Union Conf. on Neutron Physics, Kiev, 1975) Part I, TsNIIatominform, Moscow (1976) 145-149 [in Russian].
- [8] KOLESOV, V.E., NIKOLAEV, M.N., "A format for a library of recommended nuclear data for reactor calculations", in: Nuclear Constants, No. 8, Part 4, TsNIIatominform, Moscow (1972) [in Russian].

Table 1: Group (n, Y) cross-sections for fission fragments

Group No.	GE- 72 *	GE- 73 *	GE- 74 *	GE- 76 *	AS- 75 *	SE- 76 *	SE- 77 *
1	1.75-03	3.09-03	1.44-03	1.04-03	2.31-03	2.15-03	2.45-03
2	9.36-03	2.49-02	5.55-03	1.09-03	1.95-02	1.28-02	9.00-03
3	1.79-02	4.20-02	9.27-03	2.34-03	3.49-02	2.21-02	1.88-02
4	2.26-02	4.65-02	9.89-03	2.57-03	3.46-02	3.13-02	2.44-02
5	2.49-02	4.88-02	1.06-02	3.23-03	3.17-02	3.99-02	3.12-02
6	3.64-02	5.84-02	1.48-02	5.10-03	5.05-02	5.06-02	5.09-02
7	3.62-02	7.53-02	2.23-02	8.90-03	1.10-01	6.96-02	1.19-01
8	4.18-02	1.05-01	2.62-02	1.04-02	1.81-01	7.83-02	2.13-01
9	5.19-02	1.66-01	3.35-02	1.36-02	2.55-01	1.01-01	2.94-01
10	7.18-02	2.71-01	4.74-02	1.95-02	3.81-01	1.46-01	4.18-01
11	1.04-01	4.37-01	7.20-02	1.30-02	5.84-01	2.13-01	6.10-01
12	1.50-01	7.33-01	1.02-01	2.81-02	9.60-01	3.46-01	9.59-01
13	3.27-01	1.29+00	2.36-01	6.10-04	1.42+00	6.67-01	1.91+00
14	4.29-03	2.40+00	2.04-03	5.58-04	2.08+00	6.69-01	2.63+00
15	3.19-02	6.13+00	2.50-03	1.57+00	7.90+00	2.29+00	3.25+00
16	3.88-02	1.95+01	3.54-03	2.85-03	1.27+01	5.89+00	5.07+00
17	1.30-02	4.61+01	5.12-03	2.16-03	8.26-02	1.13+00	9.22+00
18	1.90-02	5.72+00	7.46-03	2.90-03	4.70+01	1.65+00	8.43-01
19	2.79-02	6.02-01	1.09-02	4.13-03	4.65+00	2.42+00	1.21+00
20	4.10-02	7.10-01	1.60-02	5.99-03	2.62-01	3.55+00	1.76+00
21	6.01-02	9.69-01	2.35-02	8.74-03	3.03-01	5.21+00	2.58+00
22	8.82-02	1.38+00	3.45-02	1.28-02	4.11-01	7.65+00	3.78+00
23	1.30-01	2.00+00	5.06-02	1.88-02	5.84-01	1.12+01	5.55+00
24	1.90-01	2.92+00	7.43-02	2.75-02	8.44-01	1.65+01	8.14+00
25	2.77-01	3.98+00	9.65-02	3.93-02	9.23-01	2.41+01	1.16+01
26	1.92+00	1.50+01	3.83-01	1.42-01	4.31+00	8.50+01	4.20+01

Group No.	SE- 78	SE- 80	SE- 82	BR- 79	BR- 81	KR- 80	KR- 82
1	1.58-03	1.49-03	1.14-03	2.78-03	2.29-03	1.42-02	5.28-03
2	5.29-03	4.95-03	2.53-03	2.74-02	1.61-02	1.27-02	9.22-03
3	8.82-03	8.13-03	3.51-03	5.58-02	3.23-02	2.77-02	2.20-02
4	1.35-02	1.31-02	4.06-03	6.89-02	4.32-02	3.37-02	3.40-02
5	1.53-02	1.59-02	3.98-03	6.92-02	5.51-02	4.15-02	4.33-02
6	2.10-02	2.35-02	6.32-03	1.00-01	8.15-02	7.04-02	7.03-02
7	2.98-02	2.84-02	9.19-03	2.05-01	1.33-01	8.02-02	6.91-02
8	3.39-02	3.17-02	1.03-02	3.45-01	1.97-01	9.06-02	7.83-02
9	4.38-02	4.12-02	1.30-02	4.83-01	2.94-01	1.18-01	1.03-01
10	6.59-02	6.32-02	1.31-02	7.00-01	4.48-01	1.93-01	1.71-01
11	8.40-02	1.03-01	6.51-03	1.04+00	6.73-01	3.01-01	2.73-01
12	1.22-01	2.55-01	2.83-02	1.63+00	1.05+00	4.44-01	4.10-01
13	3.37-01	7.63-02	2.52-04	2.67+00	1.61+00	6.56-01	6.34-01
14	2.19-01	4.12-01	2.28-04	4.53+00	1.89+00	1.11+00	9.92-01
15	4.48-03	6.31-03	2.98-04	7.68+00	2.24+00	2.56+00	7.64-04
16	4.74+00	6.64-03	4.19-04	2.42+01	2.32+00	1.60-02	5.05-03
17	7.72-03	8.74-03	6.04-04	4.35+00	5.07+01	6.67+01	3.69-02
18	8.74-03	1.23-02	8.79-04	2.23+01	2.47+00	1.27+00	1.02+00
19	1.20-02	1.77-02	1.29-03	1.01+02	1.32-01	3.12-01	2.20+02
20	1.71-02	2.57-02	1.89-03	9.32-01	1.39-01	4.70-01	1.47+00
21	2.48-02	3.76-02	2.76-03	8.62-01	1.81-01	7.65-01	1.77+00
22	3.62-02	5.51-02	4.06-03	1.10+00	2.53-01	1.20+00	2.61+00
23	5.30-02	8.08-02	5.95-03	1.53+00	3.63-01	1.83+00	3.90+00
24	7.77-02	1.18-01	8.73-03	2.20+00	5.27-01	2.74+00	5.79+00
25	1.00-01	7.42-02	1.10-02	2.64+00	5.18-01	3.20+00	2.53+00
26	4.00-01	6.11-01	4.50-02	1.11+01	2.69+00	1.43+01	3.02+01

Group No.	KR- 83	KR- 84	KR- 85	KR- 86	RR- 85	RR- 86	RR- 87
1	6.90-03	9.33-04	1.83-03	7.23-05	3.86-03	1.35-03	1.08-03
2	7.52-03	1.04-03	3.12-03	3.12-04	8.23-03	8.45-04	1.32-03
3	2.79-02	2.42-03	4.04-03	8.47-04	1.35-02	1.69-03	1.23-03
4	7.11-02	4.65-03	4.35-03	9.34-04	1.98-02	3.39-03	1.29-03
5	1.03-01	6.57-03	4.99-03	1.78-03	2.98-02	7.69-03	1.35-03
6	1.19-01	1.03-02	6.69-03	2.45-03	4.42-02	2.15-02	2.52-03
7	1.56-01	9.71-03	9.91-03	2.36-03	6.38-02	3.69-02	5.34-03
8	2.32-01	1.10-02	1.46-02	2.64-03	9.92-02	5.09-02	6.87-03
9	3.63-01	1.43-02	2.35-02	3.51-03	1.63-01	8.22-02	1.00-02
10	6.33-01	2.47-02	4.24-02	6.30-03	2.70-01	1.45-01	1.73-02
11	1.02+00	4.18-02	7.89-02	6.56-03	4.45-01	2.52-01	1.52-02
12	1.69+00	7.81-02	1.41-01	8.10-05	1.18+00	4.06-01	2.98-02
13	2.80+00	1.32-01	2.42-01	1.20-01	4.08-01	6.39-01	2.66-02
14	5.08+00	4.41-01	4.00-01	1.57-03	1.10+00	1.04+00	4.03-04
15	5.48-04	3.81+00	2.68-01	6.82-04	2.96+00	2.91+00	1.88-03
16	6.45+00	6.71-03	1.49-02	7.11-04	6.33-01	1.21+01	2.55+00
17	4.61-02	1.96-03	2.19-02	9.09-04	8.60-02	1.04+01	3.40-03
18	1.34-01	2.04-03	3.22-02	1.26-03	9.85-03	5.34-01	2.99-03
19	1.80+02	2.63-03	4.72-02	1.79-03	1.37-02	1.39-01	3.83-03
20	2.29+00	3.64-03	6.94-02	2.60-03	1.96-02	2.04-01	5.26-03
21	2.62+00	5.20-03	1.02-01	3.79-03	2.84-02	3.00-01	7.48-03
22	6.66+00	7.55-03	1.49-01	5.56-03	4.17-02	4.40-01	1.10-02
23	1.55+01	1.10-02	2.19-01	8.15-03	6.09-02	6.47-01	1.60-02
24	3.02+01	1.61-02	3.22-01	1.19-02	8.90-02	9.49-01	2.32-02
25	4.94+01	1.52-02	4.72-01	1.75-02	9.59-02	1.39+00	1.63-02
26	2.08+02	8.31-02	1.66+00	6.16-02	4.60-01	4.90+00	1.20-01

Group No.	SR- 06 *	SR- 87 *	SR- 88 *	SR- 89 *	SR- 90 *	Y- 09 *	Y- 90 *
1	2.10-03	3.13-03	1.07-03	3.68-03	1.21-03	1.34-03	1.91-03
2	6.76-03	1.28-02	1.04-03	6.34-03	2.27-03	2.16-03	4.83-03
3	1.19-02	1.79-02	1.05-03	8.38-03	3.61-03	4.50-03	6.74-03
4	1.59-02	1.64-02	1.47-03	1.01-02	5.51-03	7.49-03	1.00-02
5	2.41-02	1.81-02	1.41-03	7.02-03	5.83-03	9.70-03	1.75-02
6	2.46-02	2.22-02	1.26-03	6.46-03	9.78-03	1.18-02	2.72-02
7	2.37-02	2.82-02	1.44-03	7.64-03	9.69-03	1.25-02	3.99-02
8	2.60-02	4.00-02	6.85-04	1.02-02	1.01-02	1.42-02	6.66-02
9	3.51-02	6.56-02	3.80-04	1.58-02	1.24-02	1.93-02	1.08-01
10	5.77-02	1.18-01	9.71-04	2.85-02	1.98-02	3.29-02	1.91-01
11	9.46-01	2.11-01	2.49-03	5.43-02	3.55-02	5.70-02	3.27-01
12	1.26-01	3.49-01	1.13-05	9.32-02	3.49-02	5.26-02	4.40-01
13	2.55-01	4.47-01	8.86-05	1.05-01	2.56-03	3.24-01	5.07-01
14	1.58-01	6.41-01	2.42-05	1.02-01	3.76-03	5.52-03	6.82-01
15	4.22+00	2.15+00	3.55-05	2.57-03	5.52-03	7.88-03	8.45-01
16	6.53-02	1.63-01	5.22-05	3.78-03	8.10-03	1.15-02	9.42-01
17	4.66-02	5.11-02	7.67-05	5.55-03	1.19-02	1.69-02	9.04-02
18	5.96-02	7.54-02	1.12-04	8.14-03	1.74-02	2.48-02	6.78-02
19	8.40-02	2.47-01	1.65-04	1.20-02	2.56-02	3.64-02	9.96-02
20	1.21-01	2.26-01	2.42-04	1.76-02	3.76-02	5.35-02	1.46-01
21	1.75-01	1.96+00	3.55-04	2.57-02	5.52-02	7.84-02	2.14-01
22	2.57-01	1.39+02	5.22-04	3.78-02	8.10-02	1.15-01	3.15-01
23	3.76-01	5.54+00	7.67-04	5.55-02	1.19-01	1.69-01	4.63-01
24	5.50-01	4.32+00	1.12-03	8.14-02	1.74-01	2.48-01	6.78-01
25	6.52-01	2.57+00	1.65-03	1.20-01	2.56-01	3.62-01	9.96-01
26	2.84+00	1.60+01	5.80-03	4.20-01	9.00-01	1.28+00	3.50+00

Group No.	Y- 91 *	ZR- 90 *	ZR- 91 *	ZR- 92 *	ZR- 93 *	ZR- 94 *	ZR- 95 *
1	1.46-03	1.74-03	2.49-03	2.49-03	3.34-03	1.42-03	5.30-03
2	1.75-03	4.63-03	9.84-03	3.92-03	8.30-03	2.08-03	1.12-02
3	1.86-03	1.06-02	1.37-02	5.80-03	1.75-02	2.86-03	2.17-02
4	3.33-03	2.02-02	2.01-02	1.07-02	2.53-02	5.51-03	3.97-02
5	7.21-03	1.53-02	1.84-02	1.46-02	2.22-02	7.77-03	5.26-02
6	1.44-02	1.30-02	1.72-02	1.90-02	2.09-02	1.06-02	4.41-02
7	1.65-02	1.27-02	1.95-02	1.74-02	2.48-02	1.01-02	4.46-02
8	1.79-02	1.33-02	2.60-02	1.74-02	2.89-02	9.98-03	5.90-02
9	2.50-02	1.46-02	4.18-02	2.29-02	4.10-02	1.21-02	9.66-02
10	4.33-02	1.55-02	7.65-02	3.66-02	7.14-02	1.89-02	1.74-01
11	7.94-02	2.08-02	1.41-01	2.38-02	1.26-01	4.06-02	3.04-01
12	1.42-01	1.38-01	2.91-01	2.59-01	2.13-01	1.92-01	4.90-01
13	2.31-01	1.49-01	6.11-01	3.14-01	3.21-01	1.24-01	7.41-01
14	3.55-01	5.46-04	4.27-01	2.44-01	4.61-01	4.54-04	1.13+00
15	4.48-01	6.66-04	1.01+00	1.89-03	7.62-01	3.84-04	1.79+00
16	1.26-02	9.33-04	3.56+00	2.51-03	4.22+00	5.29-04	1.74+00
17	1.85-02	1.34-03	8.27-01	3.54-03	2.89+01	7.55-04	8.30-03
18	2.71-02	1.95-03	2.22-02	5.09-03	4.87-02	1.09-03	9.51-03
19	3.98-02	2.86-03	3.06-02	7.47-03	7.15-02	1.60-03	1.40-02
20	5.85-02	4.19-03	4.37-02	1.09-02	1.05-01	2.34-03	2.05-02
21	8.58-02	6.12-03	6.34-02	1.59-02	1.54-01	3.43-03	3.01-02
22	1.26-01	9.02-03	9.31-02	2.35-02	2.26-01	5.05-03	4.41-02
23	1.85-01	1.32-02	1.36-01	3.44-02	3.31-01	7.40-03	6.48-02
24	2.71-01	1.94-02	1.99-01	5.03-02	4.86-01	1.08-02	9.50-02
25	3.98-01	2.42-02	2.54-01	5.65-02	7.13-01	1.40-02	1.40-01
26	1.40+00	1.00-01	1.03+00	2.60-01	2.50+00	5.60-02	4.90-01

Group No.	ZR- 96 *	NB- 93 *	NB- 94 *	NB- 95 *	MO- 94 *	MO- 95 *	MO- 96 *
1	1.88-03	1.68-02	1.79-03	7.02-03	1.93-03	5.24-03	1.87-03
2	5.24-03	5.62-03	2.92-03	1.81-02	5.30-03	1.17-02	5.82-03
3	1.34-02	4.93-03	3.85-03	3.55-02	1.02-02	1.90-02	1.03-02
4	3.36-02	1.07-02	5.42-03	5.22-02	1.90-02	3.02-02	1.92-02
5	3.24-02	3.22-02	7.99-03	7.32-02	2.00-02	5.36-02	1.95-02
6	2.32-02	5.17-02	1.50-02	9.63-02	2.87-02	7.39-02	2.94-02
7	1.96-02	6.66-02	3.16-02	1.09-01	2.57-02	8.90-02	2.56-02
8	1.88-02	9.09-02	7.40-02	1.54-01	2.65-02	1.35-01	2.57-02
9	2.50-02	1.34-01	1.71-01	2.53-01	3.66-02	2.22-01	3.54-02
10	1.33-02	2.12-01	3.18-01	4.30-01	4.50-02	3.82-01	6.15-02
11	7.18-05	3.50-01	5.23-01	6.69-01	4.69-02	6.03-01	1.10-01
12	8.65-02	5.55-01	7.85-01	9.68-01	1.01-01	8.84-01	1.84-01
13	2.01-01	1.17+00	1.15+00	1.37+00	4.15-01	1.23+00	4.20-01
14	3.70-04	2.20+00	1.74+00	1.99+00	3.41-01	2.02+00	4.26-02
15	1.65-03	1.27+00	2.74+00	4.19+00	2.50-04	2.42+00	1.86-02
16	6.50+00	2.00+00	4.52+00	7.81+00	2.06-04	2.65+00	1.94-01
17	4.20-03	3.06+00	7.46+00	9.61+00	7.41-02	1.64+00	2.37+01
18	1.27-03	1.32-01	7.10+00	2.91-02	5.62-04	3.12+00	7.15-02
19	9.37-04	4.00-01	5.19+00	4.27-02	4.89-04	1.25+02	4.21-02
20	9.49-04	4.90-02	1.12+02	6.27-02	6.85-04	8.61-01	4.88-02
21	1.15-03	7.09-02	2.99+00	9.19-02	9.85-04	9.99-01	6.53-02
22	1.56-03	1.04-01	1.60+00	1.35-01	1.46-03	1.37+00	9.34-02
23	2.17-03	1.52-01	1.98+00	1.98-01	2.12-03	1.96+00	1.34-01
24	3.11-03	2.23-01	2.74+00	2.91-01	3.09-03	2.83+00	1.94-01
25	2.64-03	3.10-01	3.08+00	4.27-01	1.95-03	3.25+00	1.69-01
26	1.58-02	1.15+00	1.36+01	1.50+00	1.60-02	1.45+01	1.00+00

Group No.	MO- 97 *	MO- 98 *	MO- 99 *	MO-100 *	RU- 99 *	RU-100 *	RU-101 *
1	3.32-03	2.90-03	2.76-03	1.32-03	3.64-03	2.55-03	3.97-03
2	7.85-03	9.01-03	1.67-02	3.17-03	2.17-02	1.57-02	1.06-02
3	1.32-02	1.69-02	3.42-02	6.66-03	3.25-02	2.82-02	1.85-02
4	2.14-02	2.79-02	4.51-02	9.27-03	3.77-02	4.58-02	2.60-02
5	5.29-02	3.19-02	5.36-02	1.21-02	4.80-02	4.42-02	3.77-02
6	0.04-02	4.52-02	9.59-02	2.79-02	8.46-02	4.62-02	6.24-02
7	9.29-02	3.60-02	1.69-01	3.08-02	1.51-01	5.90-02	2.07-01
8	1.28-01	3.64-02	3.00-01	2.97-02	2.54-01	6.53-02	3.49-01
9	2.10-01	5.26-02	5.11-01	4.14-02	4.36-01	9.75-02	5.58-01
10	3.61-01	9.19-02	7.43-01	7.24-02	6.00-01	1.67-01	8.29-01
11	5.76-01	1.61-01	9.99-01	1.29-01	9.68-01	2.80-01	1.11+00
12	8.43-01	2.76-01	1.26+00	2.19-01	1.27+00	4.20-01	1.39+00
13	9.94-01	4.24-01	1.58+00	4.04-01	1.64+00	5.88-01	1.72+00
14	1.68+00	2.81-01	2.16+00	9.36-01	2.27+00	8.18-01	2.32+00
15	1.52+00	3.57+00	2.95+00	2.22-01	4.24+00	4.60+00	3.29+00
16	6.02+01	1.67+00	3.97+00	2.56+00	1.00+01	2.46+00	3.75+00
17	3.32+00	2.89-03	5.33+00	6.96-03	2.87+01	8.20-02	5.25+00
18	2.54+00	3.32-03	7.17+00	2.21-01	1.19+01	1.13-01	2.37+01
19	2.82+00	6.17-03	7.49+00	6.25-03	3.44+01	1.65-01	1.68+01
20	2.81-02	2.22+00	7.31-02	8.68-03	5.16+01	2.43-01	6.09+01
21	2.77-01	2.76-02	1.04-01	1.24-02	2.85+01	3.56-01	5.23-01
22	2.80-01	1.43-02	1.53-01	1.81-02	8.59-01	5.22-01	4.00-01
23	2.71-01	1.82-02	2.25-01	2.64-02	8.07-01	7.67-01	4.76-01
24	3.97-01	2.54-02	3.29-01	3.87-02	1.08+00	1.12+00	6.41-01
25	5.62-01	1.62-02	4.04-01	3.01-02	1.13+00	1.65+00	6.58-01
26	1.87+00	1.27-01	1.70+00	1.99-01	5.01+00	5.80+00	3.11+00

Group No.	RU-102 *	RU-103 *	RU-104 *	RU-105 *	RU-106 *	RH-105 *	FD 104 *
1	7.39-03	3.43-03	2.93-03	2.12-03	1.50-03	2.87-03	3.16-03
2	3.11-02	9.07-03	1.12-02	5.81-03	3.61-03	2.89-02	2.62-02
3	6.97-02	1.53-02	2.34-02	1.32-02	6.64-03	6.57-02	5.64-02
4	8.22-02	2.17-02	3.19-02	2.34-02	8.41-03	9.71-02	1.02-01
5	6.92-02	3.77-02	3.97-02	3.40-02	1.07-02	1.19-01	1.02-01
6	6.81-02	8.83-02	3.59-02	5.07-02	1.55-02	1.59-01	9.79-02
7	8.17-02	1.39-01	5.56-02	9.61-02	2.37-02	2.36-01	1.14-01
8	9.24-02	2.83-01	6.19-02	2.18-01	3.24-02	3.82-01	1.35-01
9	1.41-01	4.63-01	9.16-02	4.14-01	4.40-02	6.04-01	2.04-01
10	2.38-01	6.91-01	1.57-01	6.39-01	7.55-02	8.62-01	3.33-01
11	3.83-01	9.05-01	2.63-01	8.97-01	1.33-01	1.13+00	5.11-01
12	5.52-01	1.11+00	4.06-01	1.02+00	2.28-01	1.38+00	6.93-01
13	7.38-01	1.33+00	5.57-01	1.02+00	1.18+00	1.66+00	9.02-01
14	1.41+00	1.72+00	1.03+00	1.07+00	8.93-01	2.17+00	1.20+00
15	1.21-01	2.47+00	1.31+00	1.23+00	8.95-04	3.04+00	1.73+00
16	4.08-01	4.09+00	4.27+00	1.54+00	1.31-03	4.48+00	1.19+00
17	1.37-01	1.11+01	1.53-02	1.25+00	1.93-03	6.60+00	1.60+01
18	2.53-02	3.09+01	9.25-03	3.88-03	2.83-03	9.72+00	1.98-02
19	3.71-02	3.24+01	1.28-02	5.69-03	4.16-03	1.43+01	1.61-02
20	5.44-02	3.22-01	1.85-02	8.36-03	6.10-03	2.11+01	1.91-02
21	7.98-02	4.72-01	2.69-02	1.23-02	8.95-03	3.00+01	2.56-02
22	1.17-01	6.93-01	3.94-02	1.80-02	1.31-02	4.15+01	3.61-02
23	1.72-01	1.02+00	5.78-02	2.64-02	1.93-02	1.03+04	5.21-02
24	2.52-01	1.49+00	8.47-02	3.88-02	2.83-02	1.01+04	7.57-02
25	3.67-01	2.19+00	1.11-01	5.69-02	4.16-02	6.71+02	1.11-01
26	1.30+00	7.70+00	4.37-01	2.00-01	1.46-01	1.60+04	3.88-01

Group No.	FD-105 *	FD-106 *	FD-107 *	FD-108 *	FD-110 *	AG-107 *	AG-109 *
1	1.07-02	4.07-03	7.33-03	3.86-03	1.06-03	6.96-03	5.36-03
2	3.58-02	1.58-02	2.74-02	1.49-02	5.44-03	1.88-02	8.23-03
3	6.27-02	3.28-02	4.94-02	2.89-02	1.07-02	6.26-02	3.07-02
4	8.83-02	5.66-02	6.73-02	4.29-02	1.46-02	9.45-02	5.15-02
5	1.21-01	5.71-02	9.00-02	5.55-02	2.33-02	1.03-01	5.63-02
6	1.90-01	6.17-02	1.23-01	5.57-02	2.70-02	1.38-01	7.34-02
7	3.20-01	6.86-02	2.61-01	7.05-02	4.43-02	2.69-01	1.50-01
8	5.12-01	7.33-02	4.04-01	7.40-02	4.38-02	4.14-01	2.36-01
9	7.90-01	1.09-01	6.16-01	1.08-01	5.99-02	6.34-01	3.72-01
10	1.20+00	1.84-01	8.74-01	1.81-01	1.01-01	9.79-01	6.07-01
11	1.75+00	3.04-01	1.12+00	2.97-01	1.74-01	1.40+00	9.29-01
12	2.39+00	4.55-01	1.35+00	4.43-01	2.82-01	1.91+00	1.33+00
13	2.98+00	6.13-01	1.60+00	5.96-01	4.03-01	2.70+00	1.90+00
14	3.65+00	7.58-01	2.06+00	8.01-01	2.40+00	4.18+00	2.94+00
15	4.68+00	7.39-01	2.86+00	1.18+00	2.70+00	4.44+00	6.08+00
16	5.91+00	5.72+00	4.41+00	2.65+00	2.70+00	4.87+00	7.12+00
17	7.25+00	1.30-02	9.98+00	2.28-01	1.10-01	7.03+00	1.80+01
18	2.00+01	7.11-03	1.87+01	4.34+01	4.30-03	3.25+01	3.31+01
19	1.63+01	8.08-03	2.76+01	2.31+02	6.31-03	1.70+01	4.24+01
20	4.44+01	1.08-02	1.44+01	1.17+00	9.26-03	5.63+01	1.83+00
21	1.33+00	1.51-02	6.13-01	9.81-01	1.36-02	2.50+00	1.65+03
22	1.38+00	2.18-02	9.00-01	4.23+00	1.99-02	3.41+00	9.55+01
23	1.92+00	3.17-02	1.32+00	1.75+00	2.92-02	4.92+00	2.35+01
24	2.75+00	4.64-02	1.94+00	2.44+00	4.28-02	7.17+00	2.33+01
25	3.38+00	6.80-02	2.85+00	1.48+00	6.28-02	1.02+01	2.88+01
26	1.40+01	2.38-01	1.00+01	1.22+01	2.20-01	3.69+01	9.20+01

Group No.	AG-111	CD-108	CD-110	CD-111	CD-112	CD-113	CD-114
1	2.08-03	3.88-03	3.69-03	4.10-03	3.31-03	6.83-03	3.09-03
2	8.48-03	4.72-02	4.49-02	1.28-02	3.68-02	1.07-02	3.50-02
3	1.73-02	9.78-02	8.63-02	2.44-02	6.84-02	1.86-02	7.03-02
4	2.53-02	1.11-01	1.38-01	3.47-02	1.02-01	3.49-02	1.02-01
5	3.73-02	9.55-02	1.31-01	4.95-02	1.16-01	6.73-02	1.25-01
6	7.96-02	9.41-02	1.26-01	9.19-02	1.11-01	1.09-01	1.16-01
7	1.71-01	9.76-02	1.19-01	1.70-01	1.12-01	1.30-01	1.21-01
8	2.61-01	1.10-01	1.34-01	2.47-01	1.22-01	1.59-01	1.32-01
9	4.00-01	1.63-01	1.96-01	3.74-01	1.75-01	2.29-01	1.85-01
10	5.92-01	2.68-01	3.16-01	5.66-01	2.81-01	3.92-01	2.94-01
11	8.03-01	4.21-01	4.81-01	7.67-01	4.32-01	7.72-01	4.45-01
12	1.00+00	5.37-01	5.54-01	9.68-01	5.78-01	1.27+00	6.04-01
13	1.42+00	6.02-01	8.20-01	1.05+00	7.89-01	1.70+00	1.27+00
14	6.01+00	7.25-01	1.05+00	2.28+00	1.25+00	2.29+00	2.20+00
15	1.49+01	9.85-01	1.54+00	3.26+00	1.41+00	4.71+00	3.31+00
16	2.29+01	7.51-01	1.69+00	8.12+00	3.15+00	1.02+01	3.60+00
17	3.50+01	1.45-02	2.37-01	9.26+00	3.38-02	1.04+01	1.25+01
18	5.03+01	2.13-02	4.25+01	6.77+00	8.48+00	1.87+01	1.58-01
19	8.54-02	3.13-02	3.54-01	2.52+01	6.91-02	5.49-02	1.37-02
20	1.25-01	4.60-02	4.80-01	1.10+00	9.40-02	2.73+00	1.61-02
21	1.84-01	6.74-02	6.90-01	1.51+00	1.36-01	8.91-01	2.19-02
22	2.70-01	9.90-02	1.01+00	2.20+00	1.99-01	6.36+00	3.11-02
23	3.96-01	1.45-01	1.47+00	3.22+00	2.91-01	5.10+01	4.50-02
24	5.81-01	2.13-01	2.15+00	4.71+00	4.27-01	5.48+02	6.56-02
25	8.54-01	3.13-01	3.15+00	6.85+00	6.10-01	1.11+04	1.13-02
26	3.00+00	1.10+00	1.11+01	2.43+01	2.20+00	1.99+04	3.37-01

Group No.	CD-115N	CD-116	IN-113	IN-115	SN-115	SN-116	SN-117
1	2.25-03	2.35-03	4.21-03	2.72-03	2.15-03	2.47-03	2.89-03
2	5.62-03	1.62-02	6.61-02	1.92-02	2.25-03	1.07-02	9.13-03
3	1.69-02	3.30-02	1.67-01	6.35-02	1.88-03	2.28-02	1.86-02
4	3.57-02	4.63-02	2.66-01	1.29-01	2.93-03	3.76-02	2.98-02
5	5.10-02	5.00-02	3.09-01	1.80-01	6.04-03	3.72-02	5.11-02
6	6.71-02	4.86-02	2.81-01	1.87-01	1.13-02	2.97-02	6.27-02
7	9.76-02	5.70-02	2.97-01	1.95-01	1.81-02	2.58-02	6.92-02
8	1.53-01	5.81-02	3.94-01	2.56-01	1.98-02	2.59-02	1.02-01
9	2.54-01	7.66-02	5.80-01	3.87-01	2.59-02	3.21-02	1.64-01
10	4.08-01	1.23-01	8.16-01	5.06-01	4.28-02	5.12-02	2.66-01
11	5.99-01	2.05-01	1.06+00	8.24-01	7.65-02	8.87-02	4.13-01
12	7.96-01	3.11-01	1.30+00	1.07+00	1.33-01	1.48-01	5.86-01
13	1.26+00	4.18-01	1.57+00	1.37+00	2.20-01	2.35-01	8.12-01
14	7.17+00	9.19-01	2.09+00	1.88+00	3.32-01	3.21-01	1.15+00
15	2.01+01	4.80-01	2.96+00	2.68+00	7.94-01	4.40-01	1.17+00
16	3.12+01	7.95-04	4.38+00	6.77+00	1.54+00	6.15-04	2.30+00
17	4.86+01	1.08-03	6.49+00	6.64+00	6.61-01	1.38+01	4.62+00
18	7.64+01	1.69-03	9.11+00	5.52+00	9.69-01	2.80-02	9.48-02
19	5.30+01	3.62-01	7.28+01	1.61+01	1.42+00	6.70-03	1.08+01
20	1.30+00	3.84-03	8.97+01	2.96+00	2.09+00	6.63-03	1.19-01
21	1.90+00	4.85-03	1.09+01	5.66+01	3.06+00	8.34-03	1.64-01
22	2.79+00	6.99-03	4.61+00	7.88+01	4.50+00	1.15-02	2.39-01
23	4.10+00	1.02-02	8.27+01	3.96+03	6.61+00	1.63-02	6.41-01
24	6.01+00	1.49-02	3.39+00	1.50+02	9.69+00	2.36-02	5.14-01
25	8.82+00	1.90-02	2.99+00	8.99+01	1.42+01	3.24-02	6.90-01
26	3.10+01	7.69-02	1.14+01	2.02+02	5.00+01	1.21-01	2.60+00

Group No.	SN-118	SN-119	SN-120	SN-122	SN-123	SN-124	SN-125
1	2.82-03	2.05-03	1.78-03	1.62-03	3.64-03	1.67-03	2.12-03
2	2.30-02	2.59-03	4.60-03	3.69-03	2.83-02	4.83-03	4.86-03
3	7.15-02	3.34-03	1.05-02	8.29-03	4.83-02	1.27-02	0.45-03
4	9.21-02	5.98-03	2.10-02	1.51-02	4.48-02	2.18-02	1.09-02
5	8.10-02	9.60-03	2.32-02	1.74-02	3.38-02	2.24-02	1.13-02
6	6.05-02	1.19-02	1.69-02	1.42-02	3.09-02	1.77-02	1.13-02
7	4.98-02	1.33-02	1.68-02	1.27-02	3.48-02	1.58-02	1.33-02
8	5.09-02	1.63-02	1.74-02	1.35-02	4.69-02	1.69-02	1.86-02
9	6.63-02	2.50-02	2.11-02	1.64-02	7.24-02	2.09-02	2.92-02
10	1.06-01	5.65-02	3.17-02	2.39-02	1.25-01	3.06-02	5.08-02
11	1.78-01	1.22-01	7.15-02	3.98-02	2.18-01	5.04-02	9.21-02
12	2.74-01	2.01-01	1.13-01	4.06-02	3.55-01	4.29-02	4.52-01
13	3.95-01	3.12-01	1.35-01	3.10-02	5.56-01	3.05-01	3.21+00
14	3.11-01	4.68-01	2.38-01	1.72-01	8.81-01	1.13-03	6.34+00
15	8.84-01	5.57-01	4.17-01	1.25-03	1.06+00	6.24-02	8.80+00
16	3.69+00	9.24-01	4.04-01	1.43-01	2.97-04	1.84-03	4.95-03
17	3.24-03	8.48-01	1.31-02	3.77-01	4.36-04	6.40-03	7.27-03
18	4.40-02	7.57-02	4.49-02	4.36-03	6.40-04	8.66+00	1.07-02
19	1.81+00	6.56-02	4.05-03	5.22-03	9.39-04	2.11-02	1.57-02
20	4.44-03	9.64-02	5.90-03	7.60-03	1.38-03	9.12-03	2.30-02
21	5.53-03	4.00-01	8.65-03	1.11-02	2.02-03	9.75-03	3.37-02
22	7.71-03	2.00-01	1.27-02	1.63-02	2.97-03	1.28-02	4.95-02
23	1.11-02	3.04-01	1.86-02	2.39-02	4.36-03	1.78-02	7.27-02
24	1.61-02	4.46-01	2.73-02	3.51-02	6.40-03	2.56-02	1.07-01
25	7.50-05	6.53-01	3.95-02	4.75-02	9.39-03	3.39-02	1.57-01
26	8.75-02	2.30+00	1.41-01	1.81-01	3.30-02	1.30-01	5.50-01

Group No.	SN-126	SB-121	SR-123	SB-124	SB-125	SB-126	TE-122
1	1.47-03	5.90-03	2.20-03	2.72-03	5.25-03	2.22-03	3.53-03
2	3.01-03	2.45-02	9.39-03	8.89-03	2.27-02	5.11-03	3.65-02
3	5.18-03	6.80-02	2.67-02	1.65-02	5.38-02	1.00-02	8.84-02
4	5.52-03	1.15-01	4.91-02	2.43-02	8.74-02	1.71-02	1.35-01
5	7.04-03	1.56-01	7.81-02	3.67-02	9.03-02	2.87-02	1.49-01
6	6.24-03	1.58-01	7.93-02	7.04-02	8.52-02	5.63-02	1.45-01
7	5.80-03	1.76-01	9.21-02	1.73-01	1.01-01	1.17-01	1.58-01
8	6.48-03	2.42-01	1.30-01	4.03-01	1.30-01	2.05-01	1.73-01
9	8.20-03	4.16-01	2.01-01	7.72-01	1.96-01	3.28-01	2.37-01
10	1.16-02	6.94-01	3.28-01	1.16+00	3.21-01	5.21-01	3.56-01
11	1.33-02	9.67-01	5.15-01	1.56+00	5.02-01	7.99-01	5.12-01
12	5.81-04	1.28+00	7.67-01	2.08+00	7.56-01	1.19+00	6.95-01
13	8.54-04	1.68+00	1.14+00	2.79+00	1.15+00	1.77+00	1.00+00
14	1.25-03	1.80+00	1.45+00	2.98+00	1.83+00	2.79+00	1.36+00
15	1.84-03	3.45+00	2.04+00	3.08+00	3.05+00	4.55+00	3.74+00
16	2.70-03	3.35+00	2.96+00	3.24+00	5.20+00	7.58+00	5.35+00
17	3.96-03	1.17+01	8.80+00	3.41+00	8.82+00	1.26+01	7.02-02
18	5.81-03	9.41+00	5.67+00	3.59+00	1.11+00	2.10+01	8.11+01
19	8.54-03	1.50+01	2.42+01	3.79+00	2.85-02	3.18+00	2.62-01
20	1.25-02	7.26+01	1.16+02	2.33+00	4.18-02	2.42-01	1.81-01
21	1.84-02	1.42+02	4.89-01	3.98-01	6.13-02	3.55-01	2.07-01
22	2.70-02	2.08+00	4.92-01	5.05-01	9.00-02	5.22-01	2.74-01
23	3.96-02	1.25+00	6.32-01	8.59-01	1.32-01	7.67-01	3.85-01
24	5.81-02	1.44+00	8.77-01	1.26+00	1.94-01	1.12+00	5.53-01
25	8.54-02	1.37+00	1.21+00	1.05+00	2.85-01	1.65+00	7.46-01
26	3.00-01	6.27+00	4.33+00	6.50+00	1.00+00	5.80+00	2.01+00

Group No.	TE-123	TE-124	TE-125	TE-126	TE-127H	TE-128	TE-129H
1	3.31-03	3.39-03	2.58-03	2.23-03	2.90-03	2.33-03	1.93-03
2	1.41-02	3.67-02	6.37-03	9.56-03	1.23-02	1.29-02	2.83-03
3	3.57-02	9.06-02	1.42-02	2.29-02	3.45-02	3.46-02	5.31-03
4	5.80-02	1.33-01	2.42-02	4.39-02	5.80-02	5.49-02	9.48-03
5	9.42-02	1.21-01	4.08-02	4.63-02	7.39-02	5.11-02	1.38-02
6	1.44-01	1.18-01	7.43-02	5.24-02	8.92-02	6.02-02	1.92-02
7	1.90-01	1.27-01	1.13-01	5.55-02	1.20-01	5.32-02	2.83-02
8	2.75-01	1.35-01	1.47-01	5.91-02	1.73-01	5.70-02	4.38-02
9	4.12-01	1.80-01	2.49-01	7.45-02	2.69-01	7.11-02	7.43-02
10	5.89-01	2.73-01	4.36-01	1.13-01	4.23-01	1.06-01	1.31-01
11	8.14-01	4.05-01	6.69-01	1.82-01	6.43-01	1.69-01	2.26-01
12	1.11+00	4.94-01	9.47-01	2.82-01	9.62-01	2.57-01	3.64-01
13	1.53+00	6.35-01	1.37+00	2.90-01	1.47+00	2.22-01	5.76-01
14	2.30+00	1.42+00	2.70+00	3.77-01	2.38+00	4.24-01	9.46-01
15	4.94+00	2.28+00	3.14+00	5.36-03	3.97+00	8.70-02	1.66+00
16	1.18+01	9.30-01	1.26+01	2.29-01	6.74+00	1.45+00	3.08+00
17	2.64+01	9.03-02	3.65+00	1.12+01	1.14+01	2.97-03	1.04-01
18	6.33+00	1.32-01	8.50-02	2.66-02	1.94+01	4.22-03	2.13-02
19	1.24+02	1.94-01	3.94+00	3.25-02	2.60+00	6.15-03	3.13-02
20	2.25+00	2.84-01	8.13-02	4.50-02	3.93-01	8.99-03	4.60-02
21	9.73+00	4.17-01	9.88-02	6.44-02	5.76-01	1.32-02	6.74-02
22	6.05+03	6.12-01	1.42-01	9.41-02	8.46-01	1.93-02	9.90-02
23	8.14+02	8.99-01	2.06-01	1.37-01	1.24+00	2.84-02	1.45-01
24	1.59+02	1.32+00	3.01-01	2.01-01	1.82+00	4.16-02	2.13-01
25	1.52+02	1.92+00	3.83-01	2.49-01	2.68+00	5.92-02	3.13-01
26	4.10+02	6.80+00	1.55+00	1.04+00	9.40+00	2.15-01	1.10+00

Group No.	TE-130	TE-132	I-127	I-129	I-130	I-131	I-135
1	1.34-03	1.17-03	2.85-03	2.53-03	2.26-03	1.70-03	9.31-04
2	1.60-03	9.81-04	9.74-03	8.55-03	4.61-03	3.17-03	7.84-04
3	2.43-03	8.56-04	3.18-02	2.57-02	8.88-03	5.71-03	7.36-04
4	3.78-03	3.24-04	5.85-02	4.70-02	1.70-02	8.91-03	4.80-04
5	5.11-03	5.50-04	6.10-02	7.33-02	2.92-02	1.41-02	2.07-04
6	7.43-03	7.49-04	1.19-01	1.05-01	5.02-02	2.05-02	2.17-04
7	6.92-03	7.95-04	1.64-01	1.23-01	8.93-02	2.65-02	2.88-04
8	7.79-03	5.46-04	2.47-01	1.62-01	1.59-01	3.97-02	4.39-04
9	1.02-02	1.23-06	4.29-01	2.56-01	2.82-01	6.30-02	7.79-04
10	1.30-02	1.80-06	6.76-01	4.46-01	4.66-01	1.06-01	1.51-03
11	2.30-02	2.64-06	9.76-01	7.00-01	7.30-01	1.82-01	1.68-03
12	4.74-02	3.88-06	1.40+00	1.06+00	1.13+00	3.87-01	3.88-05
13	6.55-02	5.69-06	2.10+00	1.66+00	1.91+00	9.22-01	5.69-05
14	1.06-01	8.36-06	3.32+00	2.76+00	5.12+00	1.59+00	8.36-05
15	1.79-03	1.23-05	6.00+00	3.90+00	1.14+01	2.74+00	1.23-04
16	2.61-03	1.80-05	9.06+00	5.03+00	2.07+01	3.89+00	1.80-04
17	3.83-03	2.64-05	1.78+01	9.94+00	3.77+01	9.25-03	2.64-04
18	5.62-03	3.88-05	2.10+01	6.76+00	6.53+01	1.36-02	3.88-04
19	8.25-03	5.69-05	1.27+02	7.74-01	8.04+01	1.99-02	5.69-04
20	1.21-02	8.36-05	9.15+00	1.13+00	7.52-01	2.93-02	8.36-04
21	1.78-02	1.23-04	4.81-01	1.66+00	1.10+00	4.29-02	1.23-03
22	2.61-02	1.80-04	6.17-01	2.43+00	1.62+00	6.30-02	1.80-03
23	3.83-02	2.64-04	8.55-01	3.57+00	2.38+00	9.25-02	2.64-03
24	5.62-02	3.88-04	1.22+00	5.23+00	3.49+00	1.36-01	3.88-03
25	8.24-02	5.69-04	1.16+00	7.66+00	5.12+00	1.99-01	5.69-03
26	2.90-01	2.00-03	6.21+00	2.70+01	1.80+01	7.00-01	2.00-02

Group No.	XE-128	XE-129	XE-130	XE-131	XE-132	XE-133	XE-134
1	4.98-04	6.89-04	4.44-04	3.64-04	1.78-04	1.95-03	2.74-04
2	8.22-03	3.76-03	5.19-03	7.81-04	2.12-03	2.44-03	2.28-03
3	3.48-02	2.11-02	2.46-02	3.95-03	1.02-02	3.41-03	6.30-03
4	4.71-02	6.02-02	3.68-02	1.19-02	1.91-02	5.64-03	1.03-02
5	5.18-02	7.94-02	4.52-02	2.40-02	2.64-02	8.73-03	1.57-02
6	6.64-02	9.04-02	6.28-02	4.47-02	4.12-02	1.30-02	2.12-02
7	9.52-02	1.24-01	7.45-02	7.92-02	4.11-02	2.22-02	1.97-02
8	1.05-01	1.66-01	8.37-02	1.17-01	4.83-02	3.41-02	2.47-02
9	1.21-01	2.65-01	9.35-02	1.74-01	5.19-02	4.93-02	2.61-02
10	1.90-01	5.22-01	1.47-01	2.92-01	8.11-02	8.00-02	4.04-02
11	3.01-01	7.86-01	2.37-01	4.78-01	1.36-01	1.36-01	7.01-02
12	4.50-01	1.17+00	3.61-01	7.56-01	2.19-01	2.26-01	1.19-01
13	1.97-01	8.73-01	4.84-01	4.01-01	1.23-01	3.67-01	1.88-01
14	5.26-01	2.66+00	1.83-01	1.08+00	4.65-03	6.12-01	3.86-02
15	1.81+00	4.84+00	8.59-02	1.34+00	9.32-01	1.57+00	5.17-03
16	8.27+00	8.44+00	9.38-02	3.12+00	8.12-03	5.55+00	3.61-03
17	8.04-02	1.90+01	9.75-02	3.74+00	7.42-03	1.96+01	3.90-03
18	7.15-02	2.53+01	1.20-01	6.84+00	8.97-03	6.91+01	4.85-03
19	1.01-01	3.61-01	1.76-01	1.84+01	1.30-02	1.85+02	7.12-03
20	1.47-01	7.11+00	2.59-01	1.05+03	1.89-02	8.30+01	1.05-02
21	2.15-01	2.57+02	3.80-01	1.84+01	2.76-02	2.40+01	1.53-02
22	3.16-01	2.56+00	5.58-01	1.21+01	4.06-02	1.71+01	2.25-02
23	4.63-01	2.77+00	8.19-01	1.40+01	5.95-02	2.51+01	3.31-02
24	6.79-01	3.69+00	1.20+00	1.87+01	8.72-02	3.68+01	4.85-02
25	9.59-01	4.96+00	1.76+00	2.63+01	1.28-01	5.40+01	7.12-02
26	3.50+00	1.78+01	6.20+00	9.01+01	4.50-01	1.90+02	2.50-01

Group No.	XE-135	XE-136	CS-133	CS-134	CS-135	CS-136	CS-137
1	1.64-03	3.23-05	5.27-03	2.17-03	1.50-03	2.61-03	1.30-03
2	1.33-03	1.84-04	4.84-03	3.07-03	1.59-03	7.46-03	1.47-03
3	4.74-04	4.64-04	1.71-02	5.40-03	1.80-03	1.31-02	1.79-03
4	3.96-04	9.37-04	4.98-02	1.12-02	2.91-03	1.92-02	1.40-03
5	5.17-04	1.83-03	8.56-02	2.17-02	4.69-03	2.69-02	1.45-03
6	9.06-04	1.36-03	1.14-01	4.82-02	8.41-03	3.85-02	1.82-03
7	1.39-03	1.21-03	1.49-01	1.16-01	1.65-02	5.94-02	2.13-03
8	1.83-03	1.62-03	2.30-01	2.05-01	2.46-02	9.42-02	2.89-03
9	2.86-03	1.68-03	3.77-01	3.43-01	3.80-02	1.58-01	4.66-03
10	4.83-03	2.71-03	6.11-01	5.69-01	6.32-02	2.67-01	8.09-03
11	8.26-03	4.79-03	9.56-01	9.52-01	1.11-01	4.35-01	1.41-02
12	1.46-02	8.65-03	1.50+00	1.59+00	1.90-01	7.02-01	2.62-02
13	2.76-02	1.62-02	1.63+00	2.62+00	3.14-01	1.16+00	2.83-01
14	5.07-02	2.94-02	2.56+00	4.50+00	5.29-01	2.06+00	2.21-01
15	8.00-02	9.81-04	4.87+00	7.22+00	9.70-01	3.79+00	6.74-04
16	1.18-01	1.44-03	1.10+01	1.09+01	1.89+00	8.63+00	9.90-04
17	1.83-01	2.11-03	1.52+01	1.64+01	3.67+00	1.34+01	1.45-03
18	3.31-01	3.10-03	2.84+01	2.64+01	2.30+01	2.06+01	2.13-03
19	9.19-01	4.55-03	3.34+01	4.53+01	2.30+01	7.73-02	3.13-03
20	4.32+00	6.69-03	1.75+00	7.74+01	2.28+01	6.96-02	4.60-03
21	2.68+01	9.81-03	3.74+02	2.55+01	5.32-01	8.85-02	6.74-03
22	1.85+02	1.44-02	9.26+00	1.26+01	7.82-01	1.23-01	9.90-03
23	1.34+03	2.11-02	5.43+00	1.85+01	1.15+00	1.76-01	1.45-02
24	1.06+04	3.10-02	6.50+00	2.71+01	1.68+00	2.55-01	2.13-02
25	1.02+05	4.55-02	8.42+00	3.98+01	2.47+00	9.18-02	3.13-02
26	2.64+06	1.60-01	2.95+01	1.40+02	8.70+00	1.30+00	1.10-01

Group No.	BA-134	BA-135	BA-136	BA-137	BA-138	BA-140	LA-139
1	2.52-03	2.88-03	1.88-03	2.26-03	1.48-03	1.15-03	1.52-03
2	9.76-03	7.85-03	3.27-03	3.59-03	2.99-03	1.20-03	2.13-03
3	2.63-02	1.70-02	6.75-03	5.38-03	5.79-03	1.93-03	3.21-03
4	4.01-02	2.62-02	1.49-02	7.11-03	1.08-02	1.86-03	4.95-03
5	4.30-02	4.41-02	1.77-02	9.50-03	1.13-02	1.52-03	9.91-03
6	4.69-02	7.70-02	2.30-02	1.36-02	7.88-03	1.38-03	1.02-02
7	5.80-02	1.17-01	2.13-02	1.71-02	6.38-03	1.61-03	1.18-02
8	6.42-02	1.55-01	2.52-02	2.30-02	7.09-03	2.25-03	1.85-02
9	7.90-02	2.18-01	3.25-02	3.37-02	7.22-03	3.48-03	2.88-02
10	1.13-01	3.33-01	4.52-02	5.36-02	5.48-03	5.62-03	4.70-02
11	1.73-01	5.14-01	6.91-02	9.04-02	4.72-04	9.14-03	8.09-02
12	2.59-01	8.12-01	1.09-01	1.53-01	6.84-04	1.49-02	6.69-03
13	3.81-01	1.33+00	7.48-02	2.53-01	1.00-03	2.43-02	7.62-04
14	4.50-01	2.34+00	1.18-01	5.58-01	1.47-03	3.96-02	1.12-03
15	8.24-01	4.57+00	1.71+00	5.79-01	2.16-03	7.73-01	1.64-03
16	1.78-01	9.80+00	8.45-02	1.77+00	3.16-03	1.40+01	2.41-03
17	2.68+01	1.61+01	5.68-03	1.13-01	4.65-03	7.78-01	3.54-03
18	6.36-01	4.88+01	8.07-03	9.94-02	6.81-03	3.05-02	5.19-03
19	7.74-02	4.27+01	1.17-02	1.45-01	1.00-02	4.48-02	7.62-03
20	9.76-02	6.06-01	1.72-02	2.13-01	1.47-02	6.60-02	1.12-02
21	1.37-01	4.19-01	2.52-02	3.13-01	2.15-02	9.69-02	1.64-02
22	1.97-01	5.56-01	3.69-02	4.59-01	3.16-02	1.43-01	2.41-02
23	2.87-01	7.89-01	5.42-02	6.74-01	4.65-02	2.10-01	3.54-02
24	4.20-01	1.14+00	7.95-02	9.88-01	6.81-02	3.08-01	5.19-02
25	6.13-01	1.29+00	1.11-01	1.43+00	9.95-02	4.53-01	7.62-02
26	2.16+00	5.82+00	4.10-01	5.10+00	3.52-01	1.60+00	2.68-01

Group No.	LA-140	CE-140	CE-141	CE-142	CE-143	CE-144	FR-140
1	2.90-03	1.73-03	2.89-03	1.63-03	1.73-03	1.37-03	2.94-03
2	1.57-02	3.66-03	1.37-02	3.67-03	2.28-03	2.68-03	5.37-03
3	2.55-02	9.52-03	3.32-02	1.16-02	4.87-03	7.65-03	1.20-02
4	3.15-02	2.28-02	5.36-02	1.89-02	9.87-03	1.31-02	2.74-02
5	3.44-02	1.90-02	5.23-02	1.57-02	1.40-02	1.29-02	3.70-02
6	3.84-02	1.19-02	4.58-02	1.99-02	1.78-02	1.16-02	2.87-02
7	4.96-02	9.94-03	4.95-02	2.11-02	2.44-02	1.26-02	3.37-02
8	7.22-02	1.16-02	6.53-02	2.49-02	3.70-02	1.61-02	6.01-02
9	1.15-01	1.61-02	9.52-02	3.24-02	6.19-02	2.31-02	9.69-02
10	2.02-01	2.19-02	1.51-01	4.26-02	1.06-01	3.43-02	1.51-01
11	3.42-01	3.21-02	2.45-01	6.24-02	1.79-01	5.22-02	2.55-01
12	5.56-01	5.13-02	4.01-01	9.71-02	4.89-01	8.17-02	4.30-01
13	1.00+00	5.81-02	6.39-01	1.45-01	1.77+00	1.23-01	6.91-01
14	3.01+00	2.38-03	7.57-01	6.13-02	3.49+00	1.14+00	7.83-01
15	7.25+00	3.49-03	1.14+00	5.82-03	6.59+00	6.07-01	2.49+00
16	1.40+01	5.13-03	2.23+00	8.55-03	1.30+01	8.98-03	1.10+01
17	2.72+01	7.53-03	4.37+00	1.26-02	2.50+01	1.32-02	5.16-01
18	2.96+01	1.10-02	5.87+00	1.84-02	1.16-01	1.94-02	2.63+00
19	7.68-02	1.62-02	8.25-01	2.70-02	1.71-01	2.84-02	3.34-01
20	1.13-01	2.38-02	1.21+00	3.97-02	2.51-01	4.17-02	4.85-01
21	1.65-01	3.49-02	1.78+00	5.82-02	3.68-01	6.12-02	7.07-01
22	2.43-01	5.13-02	2.61+00	8.55-02	5.40-01	8.99-02	1.04+00
23	3.57-01	7.53-02	3.83+00	1.26-01	7.93-01	1.32-01	1.52+00
24	5.23-01	1.10-01	5.62+00	1.84-01	1.16+00	1.94-01	2.23+00
25	7.68-01	1.62-01	8.25+00	2.70-01	1.71+00	2.84-01	3.06+00
26	2.70+00	5.70-01	2.90+01	9.50-01	6.00+00	1.00+00	1.15+01

Group No.	PR-142	PR-143	ND-142	ND-143	ND-144	ND-145	ND-146
1	2.08-03	2.11-03	1.96-03	6.10-03	2.41-03	4.60-03	2.89-03
2	3.61-03	7.28-03	4.20-03	1.00-02	1.15-02	1.12-02	1.48-02
3	7.24-03	2.40-02	1.25-02	3.04-02	3.92-02	4.51-02	6.68-02
4	1.49-02	5.09-02	3.74-02	6.95-02	4.87-02	8.27-02	6.70-02
5	2.58-02	7.16-02	3.27-02	7.94-02	4.57-02	8.21-02	5.47-02
6	4.23-02	7.85-02	2.10-02	8.37-02	5.33-02	7.40-02	5.36-02
7	7.53-02	9.74-02	1.83-02	9.75-02	5.07-02	8.15-02	7.81-02
8	1.35-01	1.32-01	2.20-02	1.30-01	5.84-02	1.18-01	9.48-02
9	2.44-01	2.06-01	2.91-02	1.77-01	7.10-02	1.84-01	1.19-01
10	4.26-01	3.30-01	3.93-02	2.70-01	9.33-02	2.98-01	1.54-01
11	7.12-01	5.16-01	5.70-02	4.43-01	1.33-01	4.85-01	2.03-01
12	1.20+00	8.54-01	1.17-01	7.24-01	1.05-01	7.91-01	2.66-01
13	2.06+00	1.48+00	1.85-01	1.19+00	1.24-01	1.29+00	2.62-01
14	3.24+00	2.74+00	1.53-01	1.95+00	6.72-01	2.66+00	5.08-01
15	5.51+00	5.20+00	1.46-01	3.17+00	7.56-01	6.54+00	6.31-01
16	1.02+01	9.99+00	3.51-01	9.54+00	3.00+00	1.06+01	1.04+00
17	1.87+01	1.92+01	2.48-01	3.27+01	9.88-02	1.93+01	1.91-02
18	3.47+01	4.05+01	3.62-01	2.52+01	9.01-02	6.75+00	2.74-02
19	6.47+01	9.25+01	5.32-01	7.40-01	1.14-01	6.42+01	4.01-02
20	3.76+01	3.20+01	7.82-01	1.81+00	1.58-01	1.84+00	5.87-02
21	1.23+00	5.45+00	1.15+00	5.28+00	2.26-01	5.88+00	8.59-02
22	1.80+00	8.01+00	1.68+00	1.36+01	3.28-01	1.66+02	1.26-01
23	2.64+00	1.18+01	2.47+00	2.88+01	4.79-01	6.16+00	1.85-01
24	3.88+00	1.72+01	3.62+00	5.19+01	7.00-01	8.41+00	2.71-01
25	5.69+00	2.53+01	5.32+00	8.41+01	9.48-01	1.11+01	3.62-01
26	2.00+01	8.90+01	1.87+01	3.26+02	3.61+00	4.20+01	1.40+00

Group No.	ND-147	ND-148	ND-150	PM-147	PM-148	PM-148M	PM-149
1	2.26-03	4.30-03	1.79-03	3.76-03	4.57-03	4.57-03	3.57-03
2	5.61-03	2.47-02	8.27-03	1.28-02	6.44-02	6.44-02	5.32-02
3	2.22-02	9.91-02	3.35-02	5.93-02	2.24-01	2.24-01	2.53-01
4	5.20-02	1.71-01	5.69-02	1.34-01	4.95-01	4.95-01	5.67-01
5	7.95-02	1.75-01	7.09-02	2.23-01	7.67-01	7.67-01	7.76-01
6	1.07-01	7.83-02	6.88-02	2.53-01	9.94-01	9.94-01	8.76-01
7	1.56-01	8.68-02	7.44-02	2.86-01	1.23+00	1.23+00	1.05+00
8	2.27-01	1.12-01	1.31-01	3.85-01	1.63+00	1.63+00	1.40+00
9	3.75-01	1.31-01	2.09-01	7.48-01	2.37+00	2.37+00	1.95+00
10	6.28-01	1.70-01	2.76-01	1.28+00	3.72+00	3.72+00	3.00+00
11	9.90-01	2.32-01	3.86-01	2.16+00	6.06+00	6.06+00	4.89+00
12	1.71+00	3.16-01	5.38-01	3.60+00	1.01+01	1.01+01	8.25+00
13	3.10+00	4.20-01	7.51-01	6.03+00	1.68+01	1.68+01	1.40+01
14	5.87+00	4.54-01	1.26+00	1.01+01	2.75+01	2.75+01	2.37+01
15	1.09+01	1.30+00	2.45+00	1.76+01	3.70+01	4.40+01	3.89+01
16	2.02+01	5.62+00	3.23+00	3.02+01	4.21+01	6.96+01	6.27+01
17	3.72+01	1.51+01	2.15-02	5.18+01	4.79+01	1.10+02	1.01+02
18	6.84+01	4.60-01	1.21+01	6.10+01	5.45+01	1.73+02	1.19+02
19	1.26+02	1.03-01	3.91-02	8.52+01	6.20+01	2.70+02	1.04+02
20	2.32+02	1.22-01	5.22-02	4.42+01	7.05+01	4.23+02	9.09+01
21	3.18+02	1.64-01	7.48-02	2.54+03	8.02+01	6.67+02	4.10+01
22	4.55+00	2.33-01	1.09-01	6.92+01	9.12+01	1.06+03	7.46+01
23	6.48+00	3.36-01	1.59-01	2.52+01	2.59+04	1.68+03	1.36+02
24	9.50+00	4.89-01	2.33-01	3.16+01	2.77+04	2.21+02	2.46+02
25	1.39+01	7.87-02	2.94-01	2.07+01	3.22+03	1.87+03	3.98+02
26	4.90+01	2.50+00	1.20+00	1.82+02	2.00+03	1.06+04	1.40+03

Group No.	PM-151	SM-147	SM-148	SM-150	SM-151	SM-152	SM-153
1	1.43-03	6.07-03	3.94-03	3.10-03	4.78-03	2.32-03	1.88-03
2	8.46-04	1.37-02	5.55-02	2.93-02	2.51-02	1.03-02	1.09-03
3	1.33-04	4.69-02	1.88-01	1.16-01	1.15-01	3.91-02	7.42-05
4	6.19-04	1.13-01	2.47-01	1.40-01	2.43-01	7.39-02	7.10-05
5	1.92-03	1.95-01	2.10-01	1.62-01	3.44-01	1.16-01	1.56-04
6	2.58-03	2.26-01	1.87-01	1.86-01	4.19-01	1.31-01	3.58-04
7	3.79-03	2.63-01	2.14-01	2.12-01	5.41-01	1.38-01	1.05-03
8	9.89-03	3.65-01	2.16-01	2.57-01	7.67-01	2.25-01	2.82-03
9	2.24-02	5.00-01	2.38-01	2.74-01	1.14+00	3.36-01	8.02-03
10	3.60-02	7.58-01	2.97-01	3.38-01	1.92+00	4.39-01	1.93-02
11	5.86-02	1.25+00	4.08-01	4.69-01	3.41+00	6.07-01	4.01-02
12	9.74-02	2.06+00	6.40-01	7.54-01	6.46+00	8.39-01	7.76-02
13	1.60-01	3.41+00	1.06+00	1.31+00	1.15+01	1.21+00	1.43-01
14	2.44-01	5.64+00	1.63+00	2.49+00	1.97+01	2.15+00	2.52-01
15	3.65-01	8.47+00	2.87+00	4.98+00	3.26+01	4.90+00	7.17-01
16	5.48-01	2.54+01	5.68+00	1.17+01	5.60+01	1.19+01	2.92+00
17	8.23-01	5.28+01	1.12+01	6.42+00	9.09+01	1.23+01	1.18+01
18	4.42+00	7.19+01	9.53+00	3.29+01	1.45+02	4.03+01	4.78+01
19	5.36+01	1.99+02	7.68-02	6.10+00	2.30+02	1.06+00	1.94+02
20	6.46+02	3.35+02	1.13-01	3.27+02	3.48+02	2.88+01	7.89+02
21	1.15+03	3.09+00	1.65-01	1.57+00	6.10+02	3.68+03	2.56+03
22	4.57+02	2.50+02	2.43-01	3.14+00	3.30+02	5.29+01	2.97+01
23	1.82+02	7.59+00	3.57-01	7.15+00	2.05+03	4.05+01	4.36+01
24	1.36+02	1.01+01	5.23-01	1.42+01	5.53+02	4.73+01	6.40+01
25	1.99+02	9.64+00	7.68-01	2.29+01	5.58+02	6.28+01	9.40+01
26	7.00+02	6.40+01	2.70+00	1.02+02	1.50+04	2.06+02	3.30+02

Group No.	SM-154	EU-154	EU-155	EU-156	EU-157	GD-154	GD-155
1	3.31-03	1.04-02	1.51-02	1.88-03	1.56-03	3.21-03	3.25-03
2	2.85-02	4.74-03	8.98-02	1.19-03	1.77-03	2.58-02	1.24-02
3	4.87-02	2.04-02	3.72-01	1.76-04	2.63-03	1.71-01	5.38-02
4	5.80-02	5.82-02	9.70-01	2.63-04	3.11-03	3.62-01	1.22-01
5	7.07-02	1.38-01	1.37+00	6.68-04	4.11-03	3.99-01	2.01-01
6	6.93-02	3.80-01	6.77-01	2.30-03	5.57-03	3.90-01	3.29-01
7	7.29-02	9.39-01	5.29-01	6.76-03	8.28-03	3.85-01	5.03-01
8	9.42-02	1.37+00	7.86-01	1.20-02	1.28-02	4.54-01	7.79-01
9	1.55-01	1.94+00	1.23+00	2.59-02	2.25-02	5.70-01	1.32+00
10	2.20-01	2.89+00	2.11+00	6.57-02	4.09-02	7.58-01	2.29+00
11	2.93-01	4.63+00	3.77+00	1.21-01	7.10-02	1.17+00	3.95+00
12	4.60-01	7.55+00	6.73+00	1.84-01	1.15-01	2.08+00	7.00+00
13	7.72-01	1.27+01	1.20+01	3.13-01	1.84-01	3.91+00	1.18+01
14	1.50+00	2.07+01	2.15+01	5.30-01	2.95-01	7.51+00	1.36+01
15	2.24+00	3.32+01	3.84+01	8.97-01	4.70-01	1.42+01	1.84+01
16	5.77+00	5.24+01	6.52+01	1.52+00	7.52-01	2.21+01	3.10+01
17	1.72-01	8.13+01	7.66+01	2.58+00	1.20+00	6.71+01	5.22+01
18	2.95+01	5.22+01	8.72+01	4.37+00	1.92+00	3.62+01	9.87+01
19	1.77-01	2.06+02	1.03+02	7.41+00	3.06+00	1.06+02	1.35+02
20	2.39-01	2.50+02	1.59+02	4.36+02	3.93+02	1.89+01	2.08+02
21	3.42-01	2.96+02	2.47+02	4.80+02	4.33+02	7.22+00	2.36+02
22	4.99-01	1.00+02	3.63+02	4.80+02	4.33+02	7.72+00	8.55+02
23	7.29-01	1.83+03	5.34+02	4.48+02	3.98+02	1.13+01	2.51+02
24	1.07+00	3.21+02	7.83+02	9.38+01	3.66+01	1.65+01	1.43+02
25	1.52+00	1.03+02	1.15+03	1.38+02	5.38+01	2.35+01	7.21+02
26	5.50+00	3.01+03	4.04+03	4.82+02	1.90+02	8.50+01	6.10+05

Group No.	GD-156	GD-157	GD-158	TC-99	RH-103	SM-149	EU-152
1	2.84-03	3.01-03	2.47-03	1.77-03	2.28-03	1.04-02	8.24-03
2	1.54-02	1.15-02	5.45-03	5.31-03	7.75-03	1.04-02	9.90-03
3	6.23-02	4.79-02	2.02-02	1.69-02	1.94-02	1.96-02	5.01-02
4	1.25-01	1.11-01	4.78-02	3.66-02	4.29-02	4.55-02	1.45-01
5	1.72-01	1.63-01	7.18-02	5.74-02	7.71-02	1.03-01	3.26-01
6	1.62-01	1.96-01	8.45-02	8.12-02	1.33-01	2.22-01	7.61-01
7	1.69-01	2.52-01	1.01-01	1.21-01	2.95-01	4.53-01	1.63+00
8	2.06-01	3.59-01	1.32-01	2.10-01	4.61-01	7.47-01	2.50+00
9	2.89-01	6.22-01	2.04-01	3.81-01	6.52-01	1.02+00	3.44+00
10	3.96-01	1.09+00	2.87-01	6.44-01	9.17-01	1.57+00	5.13+00
11	5.67-01	1.84+00	3.95-01	9.50-01	1.31+00	2.47+00	7.91+00
12	9.63-01	3.40+00	8.41-01	1.31+00	1.79+00	2.92+00	1.20+01
13	1.77+00	7.77+00	1.53+00	1.90+00	2.61+00	5.54+00	1.99+01
14	2.91+00	5.38+01	2.36+00	2.94+00	3.58+00	1.03+01	3.22+01
15	6.84+00	1.74+02	4.33+00	4.68+00	4.85+00	1.86+01	5.10+01
16	4.71+00	1.54+02	9.64+00	2.14+00	1.06+01	3.31+01	7.98+01
17	2.62+01	6.74+01	5.58-01	1.39+01	1.07+01	2.00+00	1.23+02
18	9.95-02	6.82+01	4.40-02	3.80+00	2.37+00	1.78+02	7.60+01
19	1.22+02	3.16+01	5.81+01	3.26+00	2.74-01	1.62+02	2.84+02
20	2.19-01	2.13+02	1.48+00	4.67+01	8.22-02	1.24+02	2.57+02
21	1.42-01	2.22+00	2.24-01	3.56+02	5.80-01	5.78+02	4.64+02
22	1.61-01	1.48+02	2.60-01	1.14+01	8.53+00	1.86+01	6.16+02
23	2.12-01	5.99+01	3.50-01	4.37+00	1.16+03	1.59+02	1.72+03
24	2.98-01	3.92+02	4.96-01	4.60+00	1.69+02	2.86+03	9.68+02
25	2.72-01	5.85+03	4.87-01	5.26+00	7.33+01	2.19+03	1.71+02
26	1.48+00	2.55+05	2.50+00	1.90+01	1.48+02	8.29+04	4.63+03

Group No.	EU-153
1	3.54-03
2	1.58-02
3	8.60-02
4	2.41-01
5	4.01-01
6	4.36-01
7	5.33-01
8	9.47-01
9	1.65+00
10	2.37+00
11	3.87+00
12	4.86-07
13	2.26-07
14	1.05-07
15	4.86-08
16	2.26-08
17	1.05-08
18	1.23+02
19	9.82+01
20	2.30+02
21	1.81+02
22	1.04+03
23	1.06+02
24	8.08+01
25	1.48+02
26	9.17+02