**Nuclear Data Section**

**International Atomic Energy Agency**

**P.O.Box 100, A-1400 Vienna, Austria**

**Memo CP-D/999**

**Date:** 11 September 2020

**To:** Distribution

**From:** N. Otsuka

**Subject: Activation cross sections coded with REACTION SF3=\*N+\*P or D**

REACTION SF3=N+P or D was often coded instead of SF3=X for activation cross sections related with np+pn+d emission, and this problem is routinely reminded by users. SF3=D is legal when the incident energy of the data set is always lower than the np+pn emission threshold, but this rarely happens due to the small n-p binding energy.

The inconsistency of REACTION spelling also disturbs users of data in the computational format (C4), where the SF3=N+P, D and X data sets are undesirably differentiated by MT=28, 104 and 9000, respectively (N.B. “MT” is a reaction channel identifier originally defined for the ENDF format.)

A few data sets are coded with the tautology formalism, for example

(28-NI-58(N,X)27-CO-57,,SIG)=((28-NI-58(N,N+P)27-CO-57,,SIG)+(28-NI-58(N,D)27-CO-57,,SIG))

but the REACTION sum is not used for certain frequently occurring sum in general. (c.f. Second example of the Formats Manual 6.8. See also Appendix of Memo CP-D/954.), and we should not add the REACTION sum by this formalism.

Appended is a list of EXFOR data sets coded with

* Web quantity = CS
* SF3=D or \*N+\*P (=N+P, 2N+P, N+2P, 3N+P etc.)
* METHOD = ACTIV

extracted from the EXFOR Master File (Ver. 2020-09-01). In these EXFOR data sets, REACTION SF3 must be X and the tautology formalism should not be used (except for four data sets).

**1. REACTION SF3=D used with METHOD=ACTIV**(Eth,np: np+pn reaction threshold. The incident energy is lower than np+pn reaction threshold in four data sets.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EXFOR #** | **Emin** | **Emax** | **REACTION** | **Remark** |
| 10214.007 | 1.4+07 |  | ((44-RU-104(N,2N)44-RU-103,,SIG)+(44-RU-104(N,D)43-TC-103,,SIG)) | Eth,np=10.9 MeV, 103Ru cumulative cross section |
| 10214.009 | 1.4+07 |  | ((46-PD-110(N,2N)46-PD-109,,SIG)+(46-PD-110(N,D)45-RH-109,,SIG)) | Eth,np=10.7 MeV, 109Pd cumulative cross section |
| 10214.023 | 1.4+07 |  | ((50-SN-116(N,P)49-IN-116-M1,,SIG)+(50-SN-117(N,D)49-IN-116-M1,,SIG)) | Eth,np=9.5 MeV. Strange sum. Elemental cross section? |
| 11058.003 | 1.4+07 |  | (3-LI-7(N,D)2-HE-6,,SIG) | Eth,np=11.4 MeV |
| 11554.003 | 1.5+07 |  | (18-AR-40(N,D)17-CL-39,,SIG) | Eth,np=12.8 MeV |
| 13693.003 | 1.4+07 |  | (8-O-17(N,D)7-N-16,,SIG) | Eth,np=14.6 MeV. (N,D) ok. |
| 20833.003 | 1.6+07 | 1.9+07 | (4-BE-9(N,D)3-LI-8,,SIG) | Eth,np=18.8 MeV. (N,D) ok. |
| 20922.003 | 1.3+07 | 2.1+07 | ((12-MG-0(N,X)11-NA-24,,SIG)=((12-MG-24(N,P)11-NA-24,,SIG,,A)+(12-MG-25(N,D)11-NA-24,,SIG,,A)+(12-MG-26(N,T)11-NA-24,,SIG,,A))) | Eth,np=12.6 MeV |
| 21977.002 | 6.4+06 | 9.5+06 | (28-NI-58(N,D)27-CO-57,,SIG) | Eth,np=8.3 MeV |
| 22335.004 | 1.8+07 | 3.8+07 | (12-MG-25(N,D)11-NA-24-G,,SIG) | Eth,np=12.6 MeV |
| 22515.002 | 1.5+07 |  | (3-LI-7(N,D)2-HE-6,,SIG) | Eth,np=11.4 MeV |
| 30011.012 | 1.4+07 |  | (20-CA-44(N,D)19-K-43,,SIG) | Eth,np=12.5 MeV |
| 30011.013 | 1.4+07 |  | (20-CA-43(N,D)19-K-42,,SIG) | Eth,np=10.9 MeV |
| 30181.003 | 1.5+06 |  | (8-O-18(N,D)7-N-17,,SIG,,FIS) | Eth,np=16.8 MeV. (N,D) ok. |
| 30282.005 | 1.5+07 |  | (78-PT-198(N,D)77-IR-197,,SIG) | Eth,np=9.0 MeV |
| 30531.002 | 1.5+07 |  | ((3-LI-0(N,X)2-HE-6,,SIG)=((3-LI-6(N,P)2-HE-6,,SIG,,A)+(3-LI-7(N,D)2-HE-6,,SIG,,A))) | Eth,np=11.4 MeV |
| 31439.005 | 1.5+07 |  | (62-SM-154(N,D)61-PM-153,,SIG) | Eth,np=9.2 MeV |
| 32693.006.2 | 1.4+07 | 1.5+07 | (68-ER-170(N,D)67-HO-169,,SIG) | Eth,np=8.7 MeV |
| 40227.005 | 1.5+07 |  | (34-SE-77(N,D)33-AS-76,,SIG) | Eth,np=9.7 MeV |
| A0118.009.0 | 2.8+07 | 3.0+07 | (83-BI-209(3-LI-6,D)85-AT-213,,SIG) | Eth,np=13.3 MeV |
| A0118.009.1 | 2.8+07 | 3.0+07 | (83-BI-209(3-LI-6,N+D)85-AT-212,,SIG) | Eth,nnp=19.5 MeV |
| A0165.002 | 1.8+06 | 6.9+06 | (3-LI-6(HE3,D)4-BE-7,,SIG) | Eth,np=3.2 MeV |
| A0273.002 | 6.3+06 | 1.0+07 | (3-LI-7(T,D)3-LI-8,,SIG) | Eth,np=9.2 MeV |
| A0273.003 | 6.2+06 | 1.0+07 | (3-LI-7(T,D)3-LI-8,,SIG) | Eth,np=9.2 MeV |
| F0011.002 | 1.7+06 | 5.9+06 | (3-LI-6(HE3,D)4-BE-7,,SIG) | Eth,np=3.2 MeV |
| F0011.003 | 1.7+06 | 5.9+06 | (3-LI-6(HE3,D)4-BE-7,,SIG,,,CALC) | Eth,np=3.2 MeV |
| F0026.002 | 4.1+05 | 2.4+06 | (3-LI-6(HE3,D)4-BE-7,,SIG) | Eth,np=3.2 MeV. (HE3,D) ok. |
| F0205.003.2 | 1.8+06 | 9.5+06 | (6-C-12(HE3,D)7-N-13,,SIG) | Eth,np=7.2 MeV |
| F0407.004 | 3.9+06 | 8.0+06 | (5-B-10(HE3,D)6-C-11,,SIG,,,EXP) | Eth,np=0 MeV |
| O1375.002 | 3.9+06 | 7.1+06 | (79-AU-197(T,D)79-AU-198,,SIG) | Eth,np=2.0 MeV |
| O2004.005 | 7.9+06 | 1.1+07 | (60-ND-142(P,D)60-ND-141,,SIG) | Eth,np=9.9 MeV |
| O2422.003 | 1.2+07 | 1.8+07 | (20-CA-48(P,D)20-CA-47,,SIG) | Eth,np=10.2 MeV |
| R0044.004 | 1.2+06 | 4.6+06 | (5-B-10(HE3,D)6-C-11,,SIG,,,DERIV) | Eth,np=0 MeV |

**2. REACTION SF3=\*N+\*P (N+P, 2N+P, N+2P, 3N+P etc.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EXFOR #** | **Emin** | **Emax** | **REACTION** | **Remark** |
| 10022.012 | 1.5+07 |  | ((28-NI-58(N,N+P)27-CO-57,,SIG)+(28-NI-58(N,D)27-CO-57,,SIG)) |  |
| 10145.022 | 1.4+07 |  | ((44-RU-96(N,N+P)43-TC-95-M,,SIG)+(44-RU-96(N,D)43-TC-95-M,,SIG)) |  |
| 10145.023 | 1.4+07 |  | ((44-RU-96(N,N+P)43-TC-95-G,,SIG)+(44-RU-96(N,D)43-TC-95-G,,SIG)) |  |
| 10214.026 | 1.4+07 |  | ((44-RU-102(N,D)43-TC-101,,SIG)+(44-RU-102(N,N+P)43-TC-101,,SIG)+(44-RU-101(N,P)43-TC-101,,SIG)+(44-RU-104(N,A)42-MO-101,,SIG)) | Strange sum. Elemental cross section? |
| 10214.028 | 1.4+07 |  | ((46-PD-106(N,D)45-RH-105,,SIG)+(46-PD-106(N,N+P)45-RH-105,,SIG)+(46-PD-105(N,P)45-RH-105,,SIG)+(46-PD-108(N,A)44-RU-105,,SIG)) | Strange sum. Elemental cross section? |
| 10214.030 | 1.4+07 |  | ((50-SN-118(N,D)49-IN-117-M,,SIG)+(50-SN-118(N,N+P)49-IN-117-M,,SIG)+(50-SN-117(N,P)49-IN-117-M,,SIG)) | Strange sum. Elemental cross section? |
| 10244.026 | 1.4+07 |  | ((80-HG-199(N,N+P)79-AU-198-G,(M),SIG)+(80-HG-199(N,D)79-AU-198-G,(M),SIG)) |  |
| 10484.009 | 1.4+07 |  | ((28-NI-58(N,X)27-CO-57,,SIG)=((28-NI-58(N,N+P)27-CO-57,,SIG)+(28-NI-58(N,D)27-CO-57,,SIG))) |  |
| 10484.010 | 1.4+07 |  | ((50-SN-112(N,X)49-IN-111,,SIG)=((50-SN-112(N,N+P)49-IN-111,,SIG)+(50-SN-112(N,D)49-IN-111,,SIG))) |  |
| 10497.021 | 1.4+07 |  | ((50-SN-112(N,2N)50-SN-111,,SIG)+(50-SN-112(N,N+P)49-IN-111,,SIG)) | 111In production cumulative cross section. |
| 10497.036 | 1.4+07 |  | ((56-BA-130(N,2N)56-BA-129,,SIG)+(56-BA-130(N,N+P)55-CS-129,,SIG)) | 129Cs production cumulative cross section. |
| 11548.003 | 1.5+07 |  | (18-AR-40(N,N+P)17-CL-39,,SIG) |  |
| 11585.006 | 1.4+07 |  | ((18-AR-40(N,N+P)17-CL-39,,SIG)+(18-AR-40(N,D)17-CL-39,,SIG)) |  |
| 11590.059 | 1.5+07 |  | ((42-MO-92(N,N+P)41-NB-91-M,,SIG)+(42-MO-92(N,D)41-NB-91-M,,SIG)) |  |
| 11630.005 | 1.4+07 | 2.0+07 | ((22-TI-47(N,N+P)21-SC-46,,SIG)+(22-TI-47(N,D)21-SC-46,,SIG)) |  |
| 11630.007 | 1.4+07 | 2.0+07 | ((22-TI-48(N,N+P)21-SC-47,,SIG)+(22-TI-48(N,D)21-SC-47,,SIG)) |  |
| 11630.009 | 1.4+07 | 2.0+07 | ((22-TI-49(N,N+P)21-SC-48,,SIG)+(22-TI-49(N,D)21-SC-48,,SIG)) |  |
| 11631.004 | 1.4+07 |  | (22-TI-47(N,N+P)21-SC-46,,SIG) |  |
| 11631.007 | 1.4+07 |  | (22-TI-48(N,N+P)21-SC-47,,SIG) |  |
| 11631.009 | 1.4+07 |  | (22-TI-49(N,N+P)21-SC-48,,SIG) |  |
| 11651.002 | 1.5+07 |  | (24-CR-53(N,N+P)23-V-52,,SIG) |  |
| 11651.004 | 1.5+07 |  | (32-GE-74(N,N+P)31-GA-73,,SIG) |  |
| 11657.004 | 1.5+07 |  | (24-CR-53(N,N+P)23-V-52,,SIG) |  |
| 11696.019 | 1.4+07 |  | (28-NI-62(N,N+P)27-CO-61,,SIG) |  |
| 11740.011 | 1.5+07 |  | (28-NI-61(N,N+P)27-CO-60-M,,SIG) |  |
| 11740.013 | 1.5+07 |  | (28-NI-62(N,N+P)27-CO-61,,SIG) |  |
| 11740.016 | 1.5+07 |  | (28-NI-64(N,N+P)27-CO-63,,SIG) |  |
| 11761.004 | 1.4+07 | 1.5+07 | ((28-NI-58(N,N+P)27-CO-57,,SIG)+(28-NI-58(N,D)27-CO-57,,SIG)) |  |
| 11896.015 | 1.4+07 |  | ((40-ZR-94(N,D)39-Y-93,,SIG)+(40-ZR-94(N,N+P)39-Y-93,,SIG)) |  |
| 11956.003 | 1.4+07 |  | ((48-CD-106(N,N+P)47-AG-105,,SIG)+(48-CD-106(N,D)47-AG-105,,SIG)) |  |
| 12181.005 | 1.5+07 |  | ((74-W-186(N,N+P)73-TA-185,,SIG)+(74-W-186(N,D)73-TA-185,,SIG)) |  |
| 12219.012 | 1.4+07 |  | ((80-HG-200(N,N+P)79-AU-199,,SIG)+(80-HG-200(N,D)79-AU-199,,SIG)) |  |
| 12219.014 | 1.4+07 |  | ((80-HG-201(N,N+P)79-AU-200,,SIG)+(80-HG-201(N,D)79-AU-200,,SIG)) |  |
| 12763.003.1 | 1.5+07 |  | (40-ZR-88(N,N+P)39-Y-87-M/T,,SIG/RAT) |  |
| 12763.003.2 | 1.5+07 |  | (40-ZR-88(N,N+P)39-Y-87,,SIG) |  |
| 12976.004 | 1.5+07 | 1.5+07 | ((42-MO-95(N,N+P)41-NB-94,,SIG)+(42-MO-95(N,D)41-NB-94,,SIG)) |  |
| 13133.004 | 1.4+07 | 1.8+07 | ((22-TI-48(N,N+P)21-SC-47,,SIG)+(22-TI-48(N,D)21-SC-47,,SIG)) |  |
| 20033.014 | 1.4+07 |  | ((44-RU-96(N,N+P)43-TC-95,,SIG)+(44-RU-96(N,D)43-TC-95,,SIG)) |  |
| 20513.002 | 1.5+07 |  | ((28-NI-58(N,D)27-CO-57,,SIG)+(28-NI-58(N,N+P)27-CO-57,,SIG)) |  |
| 20513.007 | 1.5+07 |  | ((38-SR-84(N,D)37-RB-83,,SIG)+(38-SR-84(N,N+P)37-RB-83,,SIG)) |  |
| 20513.014 | 1.5+07 |  | ((40-ZR-91(N,D)39-Y-90,,SIG)+(40-ZR-91(N,N+P)39-Y-90,,SIG)) |  |
| 20513.015 | 1.5+07 |  | ((40-ZR-91(N,D)39-Y-90-M,,SIG)+(40-ZR-91(N,N+P)39-Y-90-M,,SIG)) |  |
| 20513.019 | 1.5+07 |  | ((40-ZR-94(N,D)39-Y-93,,SIG)+(40-ZR-94(N,N+P)39-Y-93,,SIG)) |  |
| 20513.022 | 1.5+07 |  | ((42-MO-92(N,D)41-NB-91-M,,SIG)+(42-MO-92(N,N+P)41-NB-91-M,,SIG)) |  |
| 20513.036 | 1.5+07 |  | ((58-CE-142(N,D)57-LA-141,,SIG)+(58-CE-142(N,N+P)57-LA-141,,SIG)) |  |
| 20527.004 | 1.5+07 |  | ((28-NI-58(N,N+P)27-CO-57,,SIG)+(28-NI-58(N,D)27-CO-57,,SIG)) |  |
| 20668.010 | 1.5+07 |  | (((74-W-183(N,N+P)73-TA-182-G,,SIG)+(74-W-183(N,D)73-TA-182-G,,SIG))=(74-W-183(N,X)73-TA-182-G,,SIG)) |  |
| 20668.013 | 1.5+07 |  | (((74-W-184(N,N+P)73-TA-183,,SIG)+(74-W-184(N,D)73-TA-183,,SIG))=(74-W-184(N,X)73-TA-183,,SIG)) |  |
| 20668.018 | 1.5+07 |  | (((74-W-186(N,N+P)73-TA-185,,SIG)+(74-W-186(N,D)73-TA-185,,SIG))=(74-W-186(N,X)73-TA-185,,SIG)) |  |
| 20841.013 | 1.5+07 |  | (28-NI-58(N,N+P)27-CO-57,,SIG) |  |
| 20860.012 | 1.5+07 |  | ((68-ER-170(N,N+P)67-HO-169,,SIG)+(68-ER-170(N,D)67-HO-169,,SIG)) |  |
| 21052.002 | 1.5+06 |  | ((28-NI-58(N,N+P)27-CO-57,,SIG,,FIS)+(28-NI-58(N,D)27-CO-57,,SIG,,FIS)) |  |
| 21441.002 |  |  | (46-PD-108(N,N+P)45-RH-107,,SIG) |  |
| 21441.003 |  |  | (52-TE-128(N,N+P)51-SB-127,,SIG) |  |
| 21441.004 |  |  | (52-TE-130(N,N+P)51-SB-129,,SIG) |  |
| 21441.005 |  |  | (58-CE-142(N,N+P)57-LA-141,,SIG) |  |
| 21441.006 |  |  | (74-W-186(N,N+P)73-TA-185,,SIG) |  |
| 21441.007 |  |  | (74-W-186(N,N+P)73-TA-185,,SIG) |  |
| 21612.012 | 1.5+07 |  | (57-LA-139(N,N+P)56-BA-138-L,,SIG) |  |
| 21936.029 | 1.5+07 |  | (28-NI-58(N,N+P)27-CO-57,,SIG) |  |
| 21936.033 | 1.5+07 |  | (28-NI-64(N,N+P)27-CO-63,,SIG) |  |
| 21941.004 | 1.4+07 |  | (22-TI-48(N,N+P)21-SC-47,,SIG) |  |
| 22089.006 | 1.3+07 | 1.5+07 | (12-MG-25(N,N+P)11-NA-24,,SIG) |  |
| 22089.010 | 1.4+07 | 1.5+07 | (14-SI-29(N,N+P)13-AL-28,,SIG) |  |
| 22089.019 | 1.3+07 | 1.5+07 | (20-CA-44(N,N+P)19-K-43,,SIG) |  |
| 22089.028 | 1.3+07 | 1.5+07 | (22-TI-47(N,N+P)21-SC-46,,SIG) |  |
| 22089.030 | 1.3+07 | 1.5+07 | (22-TI-48(N,N+P)21-SC-47,,SIG) |  |
| 22089.031 | 1.3+07 | 1.5+07 | (22-TI-49(N,N+P)21-SC-48,,SIG) |  |
| 22089.043 | 1.3+07 | 1.5+07 | (26-FE-57(N,N+P)25-MN-56,,SIG) |  |
| 22089.049 | 1.4+07 | 1.5+07 | (28-NI-58(N,N+P)27-CO-57,,SIG) |  |
| 22089.057 | 1.3+07 | 1.5+07 | (40-ZR-91(N,N+P)39-Y-90-M,,SIG) |  |
| 22089.059 | 1.3+07 | 1.5+07 | (40-ZR-92(N,N+P)39-Y-91-M,,SIG) |  |
| 22089.062 | 1.4+07 | 1.5+07 | (40-ZR-94(N,N+P)39-Y-93,,SIG) |  |
| 22089.076 | 1.3+07 | 1.5+07 | (42-MO-96(N,N+P)41-NB-95-M,,SIG) |  |
| 22089.077 | 1.3+07 | 1.5+07 | (42-MO-96(N,N+P)41-NB-95,,SIG) |  |
| 22089.080 | 1.3+07 | 1.5+07 | (42-MO-97(N,N+P)41-NB-96,,SIG) |  |
| 22089.082 | 1.4+07 | 1.5+07 | (42-MO-98(N,N+P)41-NB-97-M,,SIG) |  |
| 22089.083 | 1.4+07 | 1.5+07 | (42-MO-98(N,N+P)41-NB-97,,SIG) |  |
| 22089.093 | 1.3+07 | 1.5+07 | (50-SN-117(N,N+P)49-IN-116-M1,,SIG) |  |
| 22089.102 | 1.3+07 | 1.5+07 | (56-BA-137(N,N+P)55-CS-136,,SIG) |  |
| 22125.004 | 1.3+07 | 2.0+07 | (42-MO-92(N,N+P)41-NB-91-M,,SIG) |  |
| 22637.004 | 1.4+07 | 1.5+07 | ((28-NI-62(N,N+P)27-CO-61,,SIG)+(28-NI-62(N,D)27-CO-61,,SIG)) |  |
| 22637.010 | 1.3+07 | 1.5+07 | ((30-ZN-68(N,N+P)29-CU-67,,SIG)+(30-ZN-68(N,D)29-CU-67,,SIG)) |  |
| 22637.014 | 1.4+07 | 1.5+07 | ((32-GE-73(N,N+P)31-GA-72,,SIG)+(32-GE-73(N,D)31-GA-72,,SIG)) |  |
| 22637.017 | 1.4+07 | 1.5+07 | ((32-GE-74(N,N+P)31-GA-73,,SIG)+(32-GE-74(N,D)31-GA-73,,SIG)) |  |
| 22637.030 | 1.3+07 | 1.5+07 | ((38-SR-84(N,N+P)37-RB-83,,SIG)+(38-SR-84(N,D)37-RB-83,,SIG)) |  |
| 22637.035 | 1.4+07 | 1.5+07 | ((42-MO-92(N,N+P)41-NB-91-M,,SIG)+(42-MO-92(N,D)41-NB-91-M,,SIG)) |  |
| 22637.038 | 1.3+07 | 1.5+07 | ((44-RU-96(N,N+P)43-TC-95-M,,SIG)+(44-RU-96(N,D)43-TC-95-M,,SIG)) |  |
| 22637.039 | 1.3+07 | 1.5+07 | ((44-RU-96(N,N+P)43-TC-95-G,,SIG)+(44-RU-96(N,D)43-TC-95-G,,SIG)) |  |
| 22637.042 | 1.3+07 | 1.5+07 | ((46-PD-102(N,N+P)45-RH-101-M,,SIG)+(46-PD-102(N,D)45-RH-101-M,,SIG)) |  |
| 22637.049 | 1.4+07 | 1.5+07 | ((48-CD-106(N,N+P)47-AG-105,,SIG)+(48-CD-106(N,D)47-AG-105,,SIG)) |  |
| 22752.004 | 1.3+07 | 1.9+07 | (28-NI-58(N,N+P)27-CO-57,,SIG) |  |
| 30105.009 | 1.5+07 |  | (50-SN-118(N,N+P)49-IN-117-G,,SIG) |  |
| 30105.010 | 1.5+07 |  | (50-SN-118(N,N+P)49-IN-117-M,,SIG) |  |
| 30105.011 | 1.5+07 |  | (50-SN-118(N,N+P)49-IN-117,,SIG) |  |
| 30155.008 | 1.3+07 | 1.8+07 | (34-SE-80(N,N+P)33-AS-79,,SIG) |  |
| 30438.004 | 1.5+07 |  | ((24-CR-52(N,P)23-V-52,,SIG,,A)+(24-CR-53(N,N+P)23-V-52,,SIG,,A)) | Elemental cross section |
| 30438.005 | 1.5+07 |  | ((24-CR-53(N,P)23-V-53,,SIG,,A)+(24-CR-54(N,N+P)23-V-53,,SIG,,A)) | Elemental cross section |
| 30438.009 | 1.5+07 |  | ((40-ZR-90(N,P)39-Y-90-M,,SIG,,A)+(40-ZR-91(N,N+P)39-Y-90-M,,SIG,,A)) | Elemental cross section |
| 30438.010 | 1.5+07 |  | ((40-ZR-91(N,P)39-Y-91-M,,SIG,,A)+(40-ZR-92(N,N+P)39-Y-91-M,,SIG,,A)) | Elemental cross section |
| 30441.003 |  |  | ((24-CR-0(N,X)23-V-52,,SIG)=(24-CR-52(N,P)23-V-52,,SIG,,A)+(24-CR-53(N,N+P)23-V-52,,SIG,,A)) |  |
| 30441.005 |  |  | ((24-CR-0(N,X)23-V-53,,SIG)=(24-CR-53(N,P)23-V-53,,SIG,,A)+(24-CR-54(N,N+P)23-V-53,,SIG,,A)) |  |
| 30441.009 |  |  | ((40-ZR-0(N,X)39-Y-90-M,,SIG)=(40-ZR-90(N,P)39-Y-90-M,,SIG,,A)+(40-ZR-91(N,N+P)39-Y-90-M,,SIG,,A)) |  |
| 30441.011 |  |  | ((40-ZR-0(N,X)39-Y-91-M,,SIG)=(40-ZR-91(N,P)39-Y-91-M,,SIG,,A)+(40-ZR-92(N,N+P)39-Y-91-M,,SIG,,A)) |  |
| 30443.002 | 1.3+07 | 1.8+07 | ((46-PD-0(N,X)45-RH-105,,SIG)=((46-PD-105(N,P)45-RH-105,,SIG,,A)+(46-PD-106(N,N+P)45-RH-105,,SIG,,A)+(46-PD-106(N,D)45-RH-105,,SIG,,A))) |  |
| 30552.002 | 1.3+07 | 1.8+07 | ((14-SI-28(N,P)13-AL-28,,SIG)+(14-SI-29(N,N+P)13-AL-28,,SIG,,RAB)) |  |
| 30552.003 | 1.3+07 | 1.8+07 | ((14-SI-29(N,P)13-AL-29,,SIG)+(14-SI-30(N,N+P)13-AL-29,,SIG,,RAB)) |  |
| 30604.005 | 1.4+07 | 1.5+07 | ((28-NI-58(N,D)27-CO-57,,SIG)+(28-NI-58(N,N+P)27-CO-57,,SIG)) |  |
| 30627.002 |  |  | ((22-TI-46(N,P)21-SC-46,,SIG)+(22-TI-47(N,N+P)21-SC-46,,SIG)) | Strange sum. Elemental cross section? |
| 30627.004 |  |  | ((22-TI-48(N,P)21-SC-48,,SIG)+(22-TI-49(N,N+P)21-SC-48,,SIG)) | Strange sum. Elemental cross section? |
| 30660.003.M | 1.5+07 |  | (22-TI-47(N,N+P)21-SC-46-M,,SIG) |  |
| 30660.003.G | 1.5+07 |  | (22-TI-47(N,N+P)21-SC-46-G,,SIG) |  |
| 30660.003.S | 1.5+07 |  | (22-TI-47(N,N+P)21-SC-46,,SIG) |  |
| 30660.005 | 1.5+07 |  | (22-TI-48(N,N+P)21-SC-47,,SIG) |  |
| 30660.007 | 1.5+07 |  | (22-TI-49(N,N+P)21-SC-48,,SIG) |  |
| 30812.005 | 1.5+07 |  | (24-CR-53(N,N+P)23-V-52,,SIG) |  |
| 30812.007 | 1.5+07 |  | (24-CR-54(N,N+P)23-V-53,,SIG) |  |
| 30825.005 | 1.5+07 |  | ((22-TI-47(N,N+P)21-SC-46,,SIG)+(22-TI-47(N,D)21-SC-46,,SIG)) |  |
| 30825.007 | 1.5+07 |  | ((22-TI-48(N,N+P)21-SC-47,,SIG)+(22-TI-48(N,D)21-SC-47,,SIG)) |  |
| 30825.010 | 1.5+07 |  | ((28-NI-58(N,N+P)27-CO-57,,SIG)+(28-NI-58(N,D)27-CO-57,,SIG)) |  |
| 31329.002 | 1.5+07 |  | ((40-ZR-96(N,N+P)39-Y-95,,SIG)+(40-ZR-96(N,D)39-Y-95,,SIG)) |  |
| 31329.003 | 1.5+07 |  | ((46-PD-108(N,N+P)45-RH-107,,SIG)+(46-PD-108(N,D)45-RH-107,,SIG)) |  |
| 31329.004 | 1.5+07 |  | ((46-PD-110(N,N+P)45-RH-109,,SIG)+(46-PD-110(N,D)45-RH-109,,SIG)) |  |
| 31329.005 | 1.5+07 |  | ((74-W-184(N,N+P)73-TA-183,,SIG)+(74-W-184(N,D)73-TA-183,,SIG)) |  |
| 31329.006 | 1.5+07 |  | ((74-W-186(N,N+P)73-TA-185,,SIG)+(74-W-186(N,D)73-TA-185,,SIG)) |  |
| 31436.004 | 1.4+07 |  | (44-RU-96(N,N+P)43-TC-95-M,,SIG) |  |
| 31438.003 | 1.5+06 |  | ((28-NI-58(N,N+P)27-CO-57,,SIG,,FIS)+(28-NI-58(N,D)27-CO-57,,SIG,,FIS)) |  |
| 31444.002 | 1.4+07 | 1.5+07 | ((28-NI-58(N,N+P)27-CO-57,,SIG)+(28-NI-58(N,D)27-CO-57,,SIG)) |  |
| 31459.010 | 1.5+07 |  | (((22-TI-49(N,N+P)21-SC-48,,SIG,,A)+(22-TI-48(N,P)21-SC-48,,SIG,,A))=(22-TI-0(N,X)21-SC-48,,SIG)) |  |
| 31459.011 | 1.5+07 |  | (((26-FE-57(N,N+P)25-MN-56,,SIG,,A)+(26-FE-56(N,P)25-MN-56,,SIG,,A))=(26-FE-0(N,X)25-MN-56,,SIG)) |  |
| 31464.018 | 1.5+07 |  | (28-NI-58(N,N+P)27-CO-57,,SIG) |  |
| 31509.002.1 | 1.3+07 | 1.8+07 | (((12-MG-25(N,N+P)11-NA-24,,SIG)+(12-MG-25(N,D)11-NA-24,,SIG))/(13-AL-27(N,A)11-NA-24,,SIG)) |  |
| 31509.002.2 | 1.3+07 | 1.8+07 | (((12-MG-25(N,N+P)11-NA-24,,SIG)+(12-MG-25(N,D)11-NA-24,,SIG))=(12-MG-25(N,X)11-NA-24,,SIG)) |  |
| 31509.003 | 1.5+07 | 1.8+07 | (((12-MG-26(N,T)11-NA-24,,SIG)+(12-MG-26(N,N+D)11-NA-24,,SIG)+(12-MG-26(N,2N+P)11-NA-24,,SIG))=(12-MG-26(N,X)11-NA-24,,SIG)) |  |
| 31516.005 | 1.5+06 |  | (((28-NI-58(N,N+P)27-CO-57,,SIG,,FIS)+(28-NI-58(N,D)27-CO-57,,SIG,,FIS))=(28-NI-58(N,X)27-CO-57,IND,SIG,,FIS)) | Delete IND. |
| 31543.005 | 1.4+07 |  | (24-CR-53(N,N+P)23-V-52,,SIG) |  |
| 31543.006 | 1.4+07 |  | (24-CR-54(N,N+P)23-V-53,,SIG) |  |
| 31545.003 | 1.5+07 |  | (20-CA-44(N,N+P)19-K-43,,SIG) |  |
| 31551.009 | 1.4+07 |  | (50-SN-117(N,N+P)49-IN-116-M1,,SIG) |  |
| 33004.007 | 1.0+05 | 1.0+08 | (79-AU-197(N,6N+P)78-PT-191,,SIG,,SPA) |  |
| 33004.018 | 1.0+05 | 1.0+08 | (73-TA-181(N,N+P)72-HF-180-M,,SIG,,SPA) |  |
| 40175.003 |  |  | ((34-SE-77(N,D)33-AS-76,,SIG)+(34-SE-77(N,N+P)33-AS-76,,SIG)) |  |
| 41679.004 | 1.4+07 |  | ((12-MG-24(N,A)10-NE-21,,SIG,,,DERIV)+(12-MG-24(N,N+P)11-NA-23,,SIG,,,DERIV)) |  |
| A0146.023 | 3.6+07 | 4.5+07 | ((27-CO-59(P,X)25-MN-56,CUM,SIG)=((27-CO-59(P,N+3P)25-MN-56,,SIG)+(27-CO-59(P,4P)24-CR-56,,SIG))) |  |
| A0153.002 | 3.2+07 | 1.7+08 | (13-AL-27(A,3N+4P)11-NA-24-G,,SIG) |  |
| A0153.003 | 3.9+07 | 1.7+08 | (13-AL-27(A,5N+4P)11-NA-22,,SIG) |  |
| A0154.003.7 | 1.4+07 | 3.5+07 | (34-SE-76(HE3,N+P)35-BR-77,,SIG) |  |
| A0154.003.6 | 1.4+07 | 3.5+07 | (34-SE-76(HE3,2N+P)35-BR-76,,SIG) |  |
| A0154.003.5 | 1.4+07 | 3.5+07 | (34-SE-76(HE3,3N+P)35-BR-75,,SIG) |  |
| A0154.005.8 | 1.0+07 | 3.5+07 | (34-SE-77(HE3,N+P)35-BR-78,,SIG) |  |
| A0154.005.7 | 1.0+07 | 3.5+07 | (34-SE-77(HE3,2N+P)35-BR-77,,SIG) |  |
| A0154.005.6 | 1.0+07 | 3.5+07 | (34-SE-77(HE3,3N+P)35-BR-76,,SIG) |  |
| A0169.014 | 4.0+07 | 8.8+07 | (13-AL-27(D,2N+3P)11-NA-24,,SIG) |  |
| A0204.005 | 1.3+07 | 3.8+07 | (24-CR-50(A,N+P)25-MN-52-G,M+/(DEF),SIG,,,EXP) |  |
| A0204.008 | 1.7+07 | 2.3+07 | (24-CR-52(A,N+P)25-MN-54,,SIG,,,EXP) |  |
| A0204.011 | 2.0+07 | 3.6+07 | (40-ZR-94(A,N+P)41-NB-96,,SIG,,,EXP) |  |
| A0204.016 | 2.0+07 | 2.8+07 | (40-ZR-90(A,N+P)41-NB-92-M,,SIG,,,EXP) |  |
| A0227.002 | 2.6+07 | 3.6+07 | (52-TE-130(A,N+P)53-I-132-M/G,,SIG/RAT,,,EXP) |  |
| A0283.008 | 4.2+07 | 8.0+07 | (73-TA-181(D,4N+P)73-TA-178-G,,SIG) |  |
| A0291.003 | 2.1+07 | 2.5+07 | (50-SN-118(A,N+P)51-SB-120-M/G,,SIG/RAT) |  |
| A0366.002.6 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,N+P)67-HO-154,,SIG,,,EXP) |  |
| A0366.002.7 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,2N+P)67-HO-153,,SIG,,,EXP) |  |
| A0366.002.8 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,3N+P)67-HO-152,,SIG,,,EXP) |  |
| A0366.003.1 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,4N+P)67-HO-151,,SIG,,,EXP) |  |
| A0366.003.2 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,5N+P)67-HO-150,,SIG,,,EXP) |  |
| A0366.003.3 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,2P)66-DY-154,,SIG,,,EXP) |  |
| A0366.003.4 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,N+2P)66-DY-153,,SIG,,,EXP) |  |
| A0366.003.5 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,2N+2P)66-DY-152,,SIG,,,EXP) |  |
| A0366.003.6 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,3N+2P)66-DY-151,,SIG,,,EXP) |  |
| A0366.003.7 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,4N+2P)66-DY-150,,SIG,,,EXP) |  |
| A0366.004.1 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,5N+2P)66-DY-149,,SIG,,,EXP) |  |
| A0366.004.2 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,6N+2P)66-DY-148,,SIG,,,EXP) |  |
| A0366.004.3 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,7N+2P)66-DY-147,,SIG,,,EXP) |  |
| A0366.004.4 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,3N+3P)65-TB-150,,SIG,,,EXP) |  |
| A0366.004.5 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,4N+3P)65-TB-149,,SIG,,,EXP) |  |
| A0366.004.6 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,5N+3P)65-TB-148,,SIG,,,EXP) |  |
| A0366.004.7 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,6N+3P)65-TB-147,,SIG,,,EXP) |  |
| A0366.005.1 | 1.0+08 |  | (62-SM-144(6-C-12,7N+3P)65-TB-146,,SIG,,,EXP) |  |
| A0366.005.2 | 1.0+08 |  | (62-SM-144(6-C-12,3N+4P)64-GD-149,,SIG,,,EXP) |  |
| A0366.006.1 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,2N+4P)64-GD-150,,SIG,,,EXP) |  |
| A0366.006.2 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,3N+4P)64-GD-149,,SIG,,,EXP) |  |
| A0366.006.3 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,4N+4P)64-GD-148,,SIG,,,EXP) |  |
| A0366.006.4 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,5N+4P)64-GD-147,,SIG,,,EXP) |  |
| A0366.006.5 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,6N+4P)64-GD-146,,SIG,,,EXP) |  |
| A0366.006.6 | 7.4+07 | 1.0+08 | (62-SM-144(6-C-12,7N+4P)64-GD-145,,SIG,,,EXP) |  |
| A0366.007.4 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,N+P)67-HO-157,,SIG,,,EXP) |  |
| A0366.007.5 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,3N+P)67-HO-155,,SIG,,,EXP) |  |
| A0366.007.6 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,6N+P)67-HO-152,,SIG,,,EXP) |  |
| A0366.007.7 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,7N+P)67-HO-151,,SIG,,,EXP) |  |
| A0366.007.8 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,2N+2P)66-DY-155,,SIG,,,EXP) |  |
| A0366.008.6 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,2N+P)67-HO-156,,SIG,,,EXP) |  |
| A0366.008.7 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,3N+P)67-HO-155,,SIG,,,EXP) |  |
| A0366.008.8 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,4N+P)67-HO-154,,SIG,,,EXP) |  |
| A0366.009.1 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,5N+P)67-HO-153,,SIG,,,EXP) |  |
| A0366.009.2 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,6N+P)67-HO-152,,SIG,,,EXP) |  |
| A0366.009.3 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,3N+2P)66-DY-154,,SIG,,,EXP) |  |
| A0366.009.4 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,4N+2P)66-DY-153,,SIG,,,EXP) |  |
| A0366.009.5 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,5N+2P)66-DY-152,,SIG,,,EXP) |  |
| A0366.009.6 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,6N+2P)66-DY-151,,SIG,,,EXP) |  |
| A0366.009.7 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,7N+2P)66-DY-150,,SIG,,,EXP) |  |
| A0366.009.8 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,8N+2P)66-DY-149,,SIG,,,EXP) |  |
| A0366.010.1 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,3N+2P)66-DY-154,,SIG,,,EXP) |  |
| A0366.010.2 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,4N+2P)66-DY-153,,SIG,,,EXP) |  |
| A0366.010.3 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,7N+2P)66-DY-150,,SIG,,,EXP) |  |
| A0366.010.4 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,8N+2P)66-DY-149,,SIG,,,EXP) |  |
| A0366.010.5 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,5N+3P)65-TB-151,,SIG,,,EXP) |  |
| A0366.010.6 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,6N+3P)65-TB-150,,SIG,,,EXP) |  |
| A0366.010.7 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,7N+3P)65-TB-149,,SIG,,,EXP) |  |
| A0366.010.8 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,8N+3P)65-TB-148,,SIG,,,EXP) |  |
| A0366.010.A | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,4N+4P)64-GD-151,,SIG,,,EXP) |  |
| A0366.010.B | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,6N+4P)64-GD-149,,SIG,,,EXP) |  |
| A0366.010.C | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,8N+4P)64-GD-147,,SIG,,,EXP) |  |
| A0366.011.1 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,4N+3P)65-TB-152,,SIG,,,EXP) |  |
| A0366.011.2 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,5N+3P)65-TB-151,,SIG,,,EXP) |  |
| A0366.011.3 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,6N+3P)65-TB-150,,SIG,,,EXP) |  |
| A0366.011.4 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,7N+3P)65-TB-149,,SIG,,,EXP) |  |
| A0366.011.5 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,5N+4P)64-GD-150,,SIG,,,EXP) |  |
| A0366.011.6 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,6N+4P)64-GD-149,,SIG,,,EXP) |  |
| A0366.011.7 | 8.5+07 | 1.1+08 | (62-SM-147(6-C-12,7N+4P)64-GD-148,,SIG,,,EXP) |  |
| A0366.012.3 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,2N+P)67-HO-159,,SIG,,,EXP) |  |
| A0366.012.4 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,6N+P)67-HO-155,,SIG,,,EXP) |  |
| A0366.012.5 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,3N+2P)66-DY-157,,SIG,,,EXP) |  |
| A0366.012.6 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,4N+2P)66-DY-156,,SIG,,,EXP) |  |
| A0366.012.7 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,8N+2P)66-DY-152,,SIG,,,EXP) |  |
| A0366.012.8 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,9N+2P)66-DY-151,,SIG,,,EXP) |  |
| A0366.012.A | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,6N+3P)65-TB-153,,SIG,,,EXP) |  |
| A0366.012.B | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,4N+4P)64-GD-154,,SIG,,,EXP) |  |
| A0366.012.C | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,5N+4P)64-GD-153,,SIG,,,EXP) |  |
| A0366.012.D | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,8N+4P)64-GD-150,,SIG,,,EXP) |  |
| A0366.012.E | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,9N+4P)64-GD-149,,SIG,,,EXP) |  |
| A0366.013.7 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,3N+P)67-HO-158,,SIG,,,EXP) |  |
| A0366.013.8 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,4N+P)67-HO-157,,SIG,,,EXP) |  |
| A0366.014.1 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,5N+P)67-HO-156,,SIG,,,EXP) |  |
| A0366.014.2 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,6N+P)67-HO-155,,SIG,,,EXP) |  |
| A0366.014.3 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,7N+P)67-HO-154,,SIG,,,EXP) |  |
| A0366.014.4 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,4N+2P)66-DY-156,,SIG,,,EXP) |  |
| A0366.014.5 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,5N+2P)66-DY-155,,SIG,,,EXP) |  |
| A0366.014.6 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,6N+2P)66-DY-154,,SIG,,,EXP) |  |
| A0366.014.7 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,7N+2P)66-DY-153,,SIG,,,EXP) |  |
| A0366.014.8 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,8N+2P)66-DY-152,,SIG,,,EXP) |  |
| A0366.015.1 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,4N+3P)65-TB-155,,SIG,,,EXP) |  |
| A0366.015.2 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,6N+3P)65-TB-153,,SIG,,,EXP) |  |
| A0366.015.3 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,7N+3P)65-TB-152,,SIG,,,EXP) |  |
| A0366.015.4 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,6N+4P)64-GD-152,,SIG,,,EXP) |  |
| A0366.015.5 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,7N+4P)64-GD-151,,SIG,,,EXP) |  |
| A0366.015.6 | 8.5+07 | 1.1+08 | (62-SM-150(6-C-12,8N+4P)64-GD-150,,SIG,,,EXP) |  |
| A0366.016.4 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,2N+P)67-HO-163,,SIG,,,EXP) |  |
| A0366.016.5 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,4N+2P)66-DY-160,,SIG,,,EXP) |  |
| A0366.016.6 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,7N+2P)66-DY-157,,SIG,,,EXP) |  |
| A0366.016.7 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,8N+2P)66-DY-156,,SIG,,,EXP) |  |
| A0366.016.8 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,10N+2P)66-DY-154,,SIG,,,EXP) |  |
| A0366.016.A | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,7N+4P)64-GD-155,,SIG,,,EXP) |  |
| A0366.016.B | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,9N+4P)64-GD-153,,SIG,,,EXP) |  |
| A0366.017.5 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,3N+P)67-HO-162,,SIG,,,EXP) |  |
| A0366.017.6 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,4N+P)67-HO-161,,SIG,,,EXP) |  |
| A0366.017.7 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,5N+P)67-HO-160,,SIG,,,EXP) |  |
| A0366.017.8 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,5N+2P)66-DY-159,,SIG,,,EXP) |  |
| A0366.018.1 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,6N+2P)66-DY-158,,SIG,,,EXP) |  |
| A0366.018.2 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,7N+2P)66-DY-157,,SIG,,,EXP) |  |
| A0366.018.3 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,8N+2P)66-DY-156,,SIG,,,EXP) |  |
| A0366.018.4 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,9N+2P)66-DY-155,,SIG,,,EXP) |  |
| A0366.018.5 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,5N+3P)65-TB-158,,SIG,,,EXP) |  |
| A0366.018.6 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,7N+3P)65-TB-156,,SIG,,,EXP) |  |
| A0366.018.7 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,6N+4P)64-GD-156,,SIG,,,EXP) |  |
| A0366.018.8 | 8.8+07 | 1.1+08 | (62-SM-154(6-C-12,8N+4P)64-GD-154,,SIG,,,EXP) |  |
| A0366.019.6 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,3N+P)67-HO-160,,SIG,,,EXP) |  |
| A0366.019.7 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,4N+P)67-HO-159,,SIG,,,EXP) |  |
| A0366.019.8 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,7N+P)67-HO-156,,SIG,,,EXP) |  |
| A0366.019.A | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,8N+P)67-HO-155,,SIG,,,EXP) |  |
| A0366.020.7 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,4N+P)67-HO-159,,SIG,,,EXP) |  |
| A0366.020.8 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,8N+P)67-HO-155,,SIG,,,EXP) |  |
| A0366.021.1 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,5N+P)67-HO-158,,SIG,,,EXP) |  |
| A0366.021.2 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,6N+P)67-HO-157,,SIG,,,EXP) |  |
| A0366.021.3 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,6N+3P)65-TB-155,,SIG,,,EXP) |  |
| A0366.021.4 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,4N+2P)66-DY-158,,SIG,,,EXP) |  |
| A0366.021.5 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,5N+2P)66-DY-157,,SIG,,,EXP) |  |
| A0366.021.6 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,6N+2P)66-DY-156,,SIG,,,EXP) |  |
| A0366.021.7 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,7N+2P)66-DY-155,,SIG,,,EXP) |  |
| A0366.021.8 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,8N+2P)66-DY-154,,SIG,,,EXP) |  |
| A0366.022.1 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,3N+2P)66-DY-159,,SIG,,,EXP) |  |
| A0366.022.2 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,5N+2P)66-DY-157,,SIG,,,EXP) |  |
| A0366.022.3 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,6N+2P)66-DY-156,,SIG,,,EXP) |  |
| A0366.022.4 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,9N+2P)66-DY-153,,SIG,,,EXP) |  |
| A0366.022.5 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,4N+3P)65-TB-157,,SIG,,,EXP) |  |
| A0366.022.6 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,5N+3P)65-TB-156,,SIG,,,EXP) |  |
| A0366.022.7 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,6N+3P)65-TB-155,,SIG,,,EXP) |  |
| A0366.022.8 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,7N+3P)65-TB-154,,SIG,,,EXP) |  |
| A0366.022.A | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,8N+3P)65-TB-153,,SIG,,,EXP) |  |
| A0366.022.B | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,9N+3P)65-TB-152,,SIG,,,EXP) |  |
| A0366.022.C | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,4N+4P)64-GD-156,,SIG,,,EXP) |  |
| A0366.022.D | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,6N+4P)64-GD-154,,SIG,,,EXP) |  |
| A0366.022.E | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,7N+4P)64-GD-153,,SIG,,,EXP) |  |
| A0366.022.G | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,8N+4P)64-GD-152,,SIG,,,EXP) |  |
| A0366.023.1 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,6N+4P)64-GD-154,,SIG,,,EXP) |  |
| A0366.023.2 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,7N+4P)64-GD-153,,SIG,,,EXP) |  |
| A0366.023.3 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,8N+4P)64-GD-152,,SIG,,,EXP) |  |
| A0366.023.4 | 6.6+07 | 1.1+08 | (62-SM-152(6-C-12,9N+4P)64-GD-151,,SIG,,,EXP) |  |
| A0366.025.1 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,2N+P)64-GD-150,,SIG,,,EXP) |  |
| A0366.025.2 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,3N+P)64-GD-149,,SIG,,,EXP) |  |
| A0366.025.3 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,4N+P)64-GD-148,,SIG,,,EXP) |  |
| A0366.025.4 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,5N+P)64-GD-147,,SIG,,,EXP) |  |
| A0366.025.5 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,6N+P)64-GD-146,,SIG,,,EXP) |  |
| A0366.026.1 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,7N+P)64-GD-145,,SIG,,,EXP) |  |
| A0366.026.2 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,3N+2P)63-EU-148,,SIG,,,EXP) |  |
| A0366.026.3 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,4N+2P)63-EU-147,,SIG,,,EXP) |  |
| A0366.026.4 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,5N+2P)63-EU-146,,SIG,,,EXP) |  |
| A0366.026.5 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,6N+2P)63-EU-145,,SIG,,,EXP) |  |
| A0366.027.1 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,7N+2P)63-EU-144,,SIG,,,EXP) |  |
| A0366.027.2 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,8N+2P)63-EU-143,,SIG,,,EXP) |  |
| A0366.027.3 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,4N+3P)62-SM-146,,SIG,,,EXP) |  |
| A0366.027.4 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,5N+3P)62-SM-145,,SIG,,,EXP) |  |
| A0366.027.5 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,6N+3P)62-SM-144,,SIG,,,EXP) |  |
| A0366.028.1 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,8N+3P)62-SM-142,,SIG,,,EXP) |  |
| A0366.028.2 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,5N+4P)61-PM-144,,SIG,,,EXP) |  |
| A0366.028.3 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,6N+4P)61-PM-143,,SIG,,,EXP) |  |
| A0366.028.4 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,7N+4P)61-PM-142,,SIG,,,EXP) |  |
| A0366.028.5 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,6N+5P)60-ND-142,,SIG,,,EXP) |  |
| A0366.028.6 | 7.7+07 | 1.1+08 | (59-PR-141(6-C-12,7N+5P)60-ND-141,,SIG,,,EXP) |  |
| A0366.030.2 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,2N+P)68-ER-158,,SIG,,,EXP) |  |
| A0366.030.3 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,3N+P)68-ER-157,,SIG,,,EXP) |  |
| A0366.030.4 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,4N+P)68-ER-156,,SIG,,,EXP) |  |
| A0366.030.5 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,5N+P)68-ER-155,,SIG,,,EXP) |  |
| A0366.031.1 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,6N+P)68-ER-154,,SIG,,,EXP) |  |
| A0366.031.2 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,7N+P)68-ER-153,,SIG,,,EXP) |  |
| A0366.031.3 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,2N+2P)67-HO-157,,SIG,,,EXP) |  |
| A0366.031.4 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,4N+2P)67-HO-155,,SIG,,,EXP) |  |
| A0366.031.5 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,5N+2P)67-HO-154,,SIG,,,EXP) |  |
| A0366.032.1 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,6N+2P)67-HO-153,,SIG,,,EXP) |  |
| A0366.032.2 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,7N+2P)67-HO-152,,SIG,,,EXP) |  |
| A0366.032.3 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,8N+2P)67-HO-151,,SIG,,,EXP) |  |
| A0366.032.4 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,3N+3P)66-DY-155,,SIG,,,EXP) |  |
| A0366.032.5 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,4N+3P)66-DY-154,,SIG,,,EXP) |  |
| A0366.033.1 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,5N+3P)66-DY-153,,SIG,,,EXP) |  |
| A0366.033.2 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,6N+3P)66-DY-152,,SIG,,,EXP) |  |
| A0366.033.3 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,7N+3P)66-DY-151,,SIG,,,EXP) |  |
| A0366.033.4 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,5N+4P)65-TB-152,,SIG,,,EXP) |  |
| A0366.033.5 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,6N+4P)65-TB-151,,SIG,,,EXP) |  |
| A0366.034.1 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,7N+4P)65-TB-150,,SIG,,,EXP) |  |
| A0366.034.2 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,8N+4P)65-TB-149,,SIG,,,EXP) |  |
| A0366.034.3 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,6N+5P)64-GD-150,,SIG,,,EXP) |  |
| A0366.034.4 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,7N+5P)64-GD-149,,SIG,,,EXP) |  |
| A0366.034.5 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,8N+5P)64-GD-148,,SIG,,,EXP) |  |
| A0366.035.1 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,9N+5P)64-GD-147,,SIG,,,EXP) |  |
| A0366.035.2 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,6N+6P)63-EU-149,,SIG,,,EXP) |  |
| A0366.035.3 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,7N+6P)63-EU-148,,SIG,,,EXP) |  |
| A0366.035.4 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,8N+6P)63-EU-147,,SIG,,,EXP) |  |
| A0366.035.5 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,9N+6P)63-EU-146,,SIG,,,EXP) |  |
| A0366.036.1 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,10N+6P)63-EU-145,,SIG,,,EXP) |  |
| A0366.036.2 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,8N+7P)62-SM-146,,SIG,,,EXP) |  |
| A0366.036.3 | 7.3+07 | 1.1+08 | (62-SM-147(7-N-14,9N+7P)62-SM-145,,SIG,,,EXP) |  |
| A0366.038.3 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,3N+P)68-ER-160,,SIG,,,EXP) |  |
| A0366.038.4 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,4N+P)68-ER-159,,SIG,,,EXP) |  |
| A0366.038.5 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,5N+P)68-ER-158,,SIG,,,EXP) |  |
| A0366.039.1 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,6N+P)68-ER-157,,SIG,,,EXP) |  |
| A0366.039.2 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,7N+P)68-ER-156,,SIG,,,EXP) |  |
| A0366.039.3 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,8N+P)68-ER-155,,SIG,,,EXP) |  |
| A0366.039.4 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,4N+2P)67-HO-158,,SIG,,,EXP) |  |
| A0366.039.5 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,5N+2P)67-HO-157,,SIG,,,EXP) |  |
| A0366.040.1 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,6N+2P)67-HO-156,,SIG,,,EXP) |  |
| A0366.040.2 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,7N+2P)67-HO-155,,SIG,,,EXP) |  |
| A0366.040.3 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,8N+2P)67-HO-154,,SIG,,,EXP) |  |
| A0366.040.4 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,9N+2P)67-HO-153,,SIG,,,EXP) |  |
| A0366.040.5 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,5N+3P)66-DY-156,,SIG,,,EXP) |  |
| A0366.041.1 | 1.0+08 | 1.1+08 | (62-SM-150(7-N-14,6N+3P)66-DY-155,,SIG,,,EXP) |  |
| A0366.041.2 | 1.0+08 | 1.1+08 | (62-SM-150(7-N-14,7N+3P)66-DY-154,,SIG,,,EXP) |  |
| A0366.041.3 | 1.0+08 | 1.1+08 | (62-SM-150(7-N-14,8N+3P)66-DY-153,,SIG,,,EXP) |  |
| A0366.041.4 | 1.0+08 | 1.1+08 | (62-SM-150(7-N-14,8N+4P)65-TB-152,,SIG,,,EXP) |  |
| A0366.041.5 | 1.0+08 | 1.1+08 | (62-SM-150(7-N-14,9N+4P)65-TB-151,,SIG,,,EXP) |  |
| A0366.042.1 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,5N+5P)64-GD-154,,SIG,,,EXP) |  |
| A0366.042.2 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,6N+5P)64-GD-153,,SIG,,,EXP) |  |
| A0366.042.3 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,7N+5P)64-GD-152,,SIG,,,EXP) |  |
| A0366.042.4 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,8N+5P)64-GD-151,,SIG,,,EXP) |  |
| A0366.042.5 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,6N+6P)63-EU-152,,SIG,,,EXP) |  |
| A0366.043.1 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,7N+6P)63-EU-151,,SIG,,,EXP) |  |
| A0366.043.2 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,8N+6P)63-EU-150,,SIG,,,EXP) |  |
| A0366.043.3 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,9N+6P)63-EU-149,,SIG,,,EXP) |  |
| A0366.043.4 | 7.2+07 | 1.1+08 | (62-SM-150(7-N-14,8N+7P)62-SM-149,,SIG,,,EXP) |  |
| A0366.045.3 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,3N+P)68-ER-162,,SIG,,,EXP) |  |
| A0366.045.4 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,4N+P)68-ER-161,,SIG,,,EXP) |  |
| A0366.045.5 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,5N+P)68-ER-160,,SIG,,,EXP) |  |
| A0366.046.1 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,7N+P)68-ER-158,,SIG,,,EXP) |  |
| A0366.046.2 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,8N+P)68-ER-157,,SIG,,,EXP) |  |
| A0366.046.3 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,5N+2P)67-HO-159,,SIG,,,EXP) |  |
| A0366.046.4 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,6N+2P)67-HO-158,,SIG,,,EXP) |  |
| A0366.046.5 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,7N+2P)67-HO-157,,SIG,,,EXP) |  |
| A0366.047.1 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,8N+2P)67-HO-156,,SIG,,,EXP) |  |
| A0366.047.2 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,9N+2P)67-HO-155,,SIG,,,EXP) |  |
| A0366.047.3 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,10N+2P)67-HO-154,,SIG,,,EXP) |  |
| A0366.047.4 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,5N+5P)64-GD-156,,SIG,,,EXP) |  |
| A0366.047.5 | 8.7+07 | 1.1+08 | (62-SM-152(7-N-14,7N+5P)64-GD-154,,SIG,,,EXP) |  |
| A0366.048.1 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,8N+5P)64-GD-153,,SIG,,,EXP) |  |
| A0366.048.2 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,9N+5P)64-GD-152,,SIG,,,EXP) |  |
| A0366.048.3 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,6N+6P)63-EU-154,,SIG,,,EXP) |  |
| A0366.048.4 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,7N+6P)63-EU-153,,SIG,,,EXP) |  |
| A0366.048.5 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,8N+6P)63-EU-152,,SIG,,,EXP) |  |
| A0366.048.6 | 7.1+07 | 1.1+08 | (62-SM-152(7-N-14,9N+6P)63-EU-151,,SIG,,,EXP) |  |
| A0366.050.3 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,N+P)65-TB-153,,SIG,,,EXP) |  |
| A0366.050.4 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,2N+P)65-TB-152,,SIG,,,EXP) |  |
| A0366.050.5 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,3N+P)65-TB-151,,SIG,,,EXP) |  |
| A0366.051.1 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,4N+P)65-TB-150,,SIG,,,EXP) |  |
| A0366.051.2 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,5N+P)65-TB-149,,SIG,,,EXP) |  |
| A0366.051.3 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,6N+P)65-TB-148,,SIG,,,EXP) |  |
| A0366.051.4 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,7N+P)65-TB-147,,SIG,,,EXP) |  |
| A0366.051.5 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,4N+2P)64-GD-149,,SIG,,,EXP) |  |
| A0366.052.1 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,4N+2P)64-GD-149,,SIG,,,EXP) |  |
| A0366.052.2 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,5N+2P)64-GD-148,,SIG,,,EXP) |  |
| A0366.052.3 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,6N+2P)64-GD-147,,SIG,,,EXP) |  |
| A0366.052.4 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,7N+2P)64-GD-146,,SIG,,,EXP) |  |
| A0366.052.5 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,8N+2P)64-GD-145,,SIG,,,EXP) |  |
| A0366.053.1 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,9N+2P)64-GD-144,,SIG,,,EXP) |  |
| A0366.053.2 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,4N+3P)63-EU-148,,SIG,,,EXP) |  |
| A0366.053.3 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,5N+3P)63-EU-147,,SIG,,,EXP) |  |
| A0366.053.4 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,6N+3P)63-EU-146,,SIG,,,EXP) |  |
| A0366.053.5 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,7N+3P)63-EU-145,,SIG,,,EXP) |  |
| A0366.054.1 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,8N+3P)63-EU-144,,SIG,,,EXP) |  |
| A0366.054.2 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,5N+4P)62-SM-146,,SIG,,,EXP) |  |
| A0366.054.3 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,6N+4P)62-SM-145,,SIG,,,EXP) |  |
| A0366.054.4 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,7N+4P)62-SM-144,,SIG,,,EXP) |  |
| A0366.054.5 | 6.0+07 | 1.1+08 | (59-PR-141(7-N-14,8N+4P)62-SM-143,,SIG,,,EXP) |  |
| A0366.055.1 | 8.8+07 | 1.1+08 | (59-PR-141(7-N-14,9N+4P)62-SM-142,,SIG,,,EXP) |  |
| A0366.055.2 | 8.8+07 | 1.1+08 | (59-PR-141(7-N-14,6N+5P)61-PM-144,,SIG,,,EXP) |  |
| A0366.055.3 | 8.8+07 | 1.1+08 | (59-PR-141(7-N-14,7N+5P)61-PM-143,,SIG,,,EXP) |  |
| A0366.055.4 | 8.8+07 | 1.1+08 | (59-PR-141(7-N-14,8N+5P)61-PM-142,,SIG,,,EXP) |  |
| A0366.055.5 | 8.8+07 | 1.1+08 | (59-PR-141(7-N-14,9N+5P)61-PM-141,,SIG,,,EXP) |  |
| A0366.056.1 | 1.1+08 |  | (59-PR-141(7-N-14,10N+5P)61-PM-140,,SIG,,,EXP) |  |
| A0366.056.2 | 1.1+08 |  | (59-PR-141(7-N-14,6N+6P)60-ND-143,,SIG,,,EXP) |  |
| A0366.056.3 | 1.1+08 |  | (59-PR-141(7-N-14,7N+6P)60-ND-142,,SIG,,,EXP) |  |
| A0366.056.4 | 1.1+08 |  | (59-PR-141(7-N-14,8N+6P)60-ND-141,,SIG,,,EXP) |  |
| A0366.056.5 | 1.1+08 |  | (59-PR-141(7-N-14,9N+6P)60-ND-140,,SIG,,,EXP) |  |
| A0366.056.6 | 1.1+08 |  | (59-PR-141(7-N-14,10N+6P)60-ND-139,,SIG,,,EXP) |  |
| A0366.058.1 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,N+P)68-ER-156,,SIG,,,EXP) |  |
| A0366.058.2 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,2N+P)68-ER-155,,SIG,,,EXP) |  |
| A0366.058.3 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,3N+P)68-ER-154,,SIG,,,EXP) |  |
| A0366.058.4 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,4N+P)68-ER-153,,SIG,,,EXP) |  |
| A0366.058.5 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,5N+P)68-ER-152,,SIG,,,EXP) |  |
| A0366.059.1 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,6N+P)68-ER-151,,SIG,,,EXP) |  |
| A0366.059.2 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,2N+2P)67-HO-154,,SIG,,,EXP) |  |
| A0366.059.3 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,3N+2P)67-HO-153,,SIG,,,EXP) |  |
| A0366.059.4 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,4N+2P)67-HO-152,,SIG,,,EXP) |  |
| A0366.059.5 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,5N+2P)67-HO-151,,SIG,,,EXP) |  |
| A0366.060.1 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,6N+2P)67-HO-150,,SIG,,,EXP) |  |
| A0366.060.2 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,7N+2P)67-HO-149,,SIG,,,EXP) |  |
| A0366.060.3 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,2N+3P)66-DY-153,,SIG,,,EXP) |  |
| A0366.060.4 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,3N+3P)66-DY-152,,SIG,,,EXP) |  |
| A0366.060.5 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,4N+3P)66-DY-151,,SIG,,,EXP) |  |
| A0366.061.1 | 8.3+07 | 9.6+07 | (62-SM-144(7-N-14,5N+3P)66-DY-150,,SIG,,,EXP) |  |
| A0366.061.2 | 8.3+07 | 9.6+07 | (62-SM-144(7-N-14,6N+3P)66-DY-149,,SIG,,,EXP) |  |
| A0366.061.3 | 8.3+07 | 9.6+07 | (62-SM-144(7-N-14,7N+3P)66-DY-148,,SIG,,,EXP) |  |
| A0366.061.4 | 8.3+07 | 9.6+07 | (62-SM-144(7-N-14,4N+4P)65-TB-150,,SIG,,,EXP) |  |
| A0366.061.5 | 8.3+07 | 9.6+07 | (62-SM-144(7-N-14,5N+4P)65-TB-149,,SIG,,,EXP) |  |
| A0366.062.1 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,6N+4P)65-TB-148,,SIG,,,EXP) |  |
| A0366.062.2 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,7N+4P)65-TB-147,,SIG,,,EXP) |  |
| A0366.062.3 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,5N+5P)64-GD-148,,SIG,,,EXP) |  |
| A0366.062.4 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,6N+5P)64-GD-147,,SIG,,,EXP) |  |
| A0366.062.5 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,7N+5P)64-GD-146,,SIG,,,EXP) |  |
| A0366.063.1 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,8N+5P)64-GD-145,,SIG,,,EXP) |  |
| A0366.063.2 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,6N+6P)63-EU-146,,SIG,,,EXP) |  |
| A0366.063.3 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,7N+6P)63-EU-145,,SIG,,,EXP) |  |
| A0366.063.4 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,8N+6P)63-EU-144,,SIG,,,EXP) |  |
| A0366.063.5 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,9N+6P)63-EU-143,,SIG,,,EXP) |  |
| A0366.063.6 | 6.6+07 | 9.6+07 | (62-SM-144(7-N-14,8N+7P)62-SM-143,,SIG,,,EXP) |  |
| A0403.004 | 1.2+07 | 4.0+07 | (39-Y-89(P,N+P)39-Y-88,,SIG) |  |
| A0421.002.4 | 1.5+07 | 2.4+07 | (30-ZN-64(A,N+P)31-GA-66,,SIG,,,EXP) |  |
| A0421.002.5 | 1.5+07 | 2.4+07 | (30-ZN-64(A,N+A)30-ZN-63,,SIG,,,EXP) |  |
| A0421.003.2 | 1.5+07 | 2.4+07 | (30-ZN-66(A,N+P)31-GA-68,,SIG,,,EXP) |  |
| A0421.005.1 | 1.5+07 | 2.4+07 | (30-ZN-70(A,N+P)31-GA-72,,SIG,,,EXP) |  |
| A0425.002 | 5.6+07 | 9.0+07 | (20-CA-44(A,3N+P)21-SC-44-M/G,,SIG/RAT,,,EXP) |  |
| A0526.003 | 1.7+07 | 3.6+07 | (54-XE-126(P,N+P)54-XE-125-G,,SIG,,,EXP) |  |
| A0564.002 | 3.6+07 | 4.3+07 | ((83-BI-209(4-BE-9,2N)87-FR-216,,SIG)+(83-BI-209(4-BE-9,3N+P)86-RN-214,,SIG)) |  |
| C0092.003 | 3.1+07 | 4.6+07 | (51-SB-123(P,N+P)51-SB-122,,SIG) |  |
| C0199.002 | 4.0+07 | 1.6+08 | (13-AL-27(P,N+3P)11-NA-24,,SIG) |  |
| C0202.004 | 1.3+07 | 3.0+07 | (7-N-14(P,N+P)7-N-13,,SIG) |  |
| C0206.002 | 2.9+08 | 3.8+08 | (6-C-12(P,N+P)6-C-11,,SIG) |  |
| C0207.002 | 2.0+08 | 3.4+08 | ((6-C-12(P,N+P)6-C-11,,SIG)/(13-AL-27(P,N+3P)11-NA-24,,SIG)) |  |
| C0207.003 | 2.0+08 | 3.5+08 | ((6-C-12(P,N+P)6-C-11,,SIG)/(6-C-12(P,X)4-BE-7,,SIG)) |  |
| C0207.005 | 1.0+08 | 1.0+09 | (13-AL-27(P,N+3P)11-NA-24,,SIG) |  |
| C0214.002 | 4.2+08 | 3.0+09 | ((6-C-12(P,N+P)6-C-11,,SIG)/(13-AL-27(P,N+3P)11-NA-24,,SIG)) |  |
| C0216.002 | 2.0+09 | 3.0+09 | (6-C-12(P,N+P)6-C-11,,SIG) |  |
| C0216.003 | 2.0+09 | 3.0+09 | (13-AL-27(P,N+3P)11-NA-24,,SIG) |  |
| C0224.002 | 4.2+08 | 1.7+10 | ((13-AL-27(P,N+3P)11-NA-24,,SIG)/(6-C-12(P,N+P)6-C-11,,SIG)) |  |
| C0224.003 | 4.2+08 | 1.7+10 | ((13-AL-27(P,X)9-F-18,,SIG)/(13-AL-27(P,N+3P)11-NA-24,,SIG)) |  |
| C0224.004 | 4.2+08 | 1.7+10 | ((13-AL-27(P,X)6-C-11,,SIG)/(13-AL-27(P,N+3P)11-NA-24,,SIG)) |  |
| C0224.005 | 4.2+08 | 1.7+10 | ((13-AL-27(P,X)7-N-13,,SIG)/(13-AL-27(P,N+3P)11-NA-24,,SIG)) |  |
| C0224.006 | 2.0+09 | 2.9+09 | ((13-AL-27(P,X)11-NA-22,,SIG)/(13-AL-27(P,N+3P)11-NA-24,,SIG)) |  |
| C0224.007 | 2.9+09 |  | ((13-AL-27(P,X)4-BE-7,,SIG)/(13-AL-27(P,N+3P)11-NA-24,,SIG)) |  |
| C0224.008 | 6.2+08 | 2.9+09 | ((6-C-12(P,X)4-BE-7,,SIG)/(13-AL-27(P,N+3P)11-NA-24,,SIG)) |  |
| C0231.002 | 2.8+10 |  | (6-C-12(P,N+P)6-C-11,,SIG) |  |
| C0245.002 | 1.5+07 | 1.5+08 | (8-O-16(P,N+P)8-O-15,,SIG) |  |
| C0245.003 | 1.4+07 | 1.5+08 | (8-O-16(P,2N+2P)7-N-13,,SIG) |  |
| C0245.004 | 3.0+07 | 1.5+08 | (8-O-16(P,3N+3P)6-C-11,,SIG) |  |
| C0245.005 | 4.4+07 | 1.5+08 | (8-O-16(P,5N+5P)4-BE-7,,SIG) |  |
| C0249.002 | 1.2+08 | 6.6+08 | (20-CA-48(P,N+P)20-CA-47,,SIG) |  |
| C0250.004 | 4.2+08 |  | (9-F-19(P,N+P)9-F-18,,SIG) |  |
| C0256.002.1 | 1.2+08 | 6.7+08 | (21-SC-45(P,N+P)21-SC-44,,SIG) |  |
| C0256.002.2 | 1.2+08 | 6.7+08 | (21-SC-45(P,N+P)21-SC-44-G/M,,SIG/RAT) |  |
| C0257.002.1 | 5.0+07 | 3.5+08 | (13-AL-27(P,N+3P)11-NA-24,,SIG) |  |
| C0257.002.2 | 5.0+07 | 3.5+08 | ((13-AL-27(P,N+3P)11-NA-24,,SIG)/(6-C-12(P,N+P)6-C-11,,SIG)) |  |
| C0266.002 | 4.0+06 | 9.6+07 | (12-MG-25(P,2N+2P)11-NA-22,,SIG) |  |
| C0266.003 | 3.0+06 | 9.3+07 | (12-MG-26(P,3N+2P)11-NA-22,,SIG) |  |
| C0266.004 | 3.1+07 | 9.5+07 | (12-MG-24(P,N+2P)11-NA-22,,SIG) |  |
| C0269.002 | 3.7+08 |  | (21-SC-45(P,N+P)21-SC-44,,SIG) |  |
| C0269.003 | 3.7+08 |  | (24-CR-50(P,N+P)24-CR-49,,SIG) |  |
| C0269.004 | 3.7+08 |  | (24-CR-52(P,N+P)24-CR-51,,SIG) |  |
| C0269.005 | 3.7+08 |  | (25-MN-55(P,N+P)25-MN-54,,SIG) |  |
| C0269.006 | 3.7+08 |  | (26-FE-56(P,N+P)26-FE-55,,SIG) |  |
| C0269.007 | 3.7+08 |  | (28-NI-58(P,N+P)28-NI-57,,SIG) |  |
| C0269.008 | 3.7+08 |  | (27-CO-59(P,N+P)27-CO-58,,SIG) |  |
| C0269.009 | 3.7+08 |  | (29-CU-65(P,N+P)29-CU-64,,SIG) |  |
| C0269.010 | 3.7+08 |  | (31-GA-69(P,N+P)31-GA-68,,SIG) |  |
| C0269.011 | 3.7+08 |  | (31-GA-71(P,N+P)31-GA-70,,SIG) |  |
| C0269.014 | 3.7+08 |  | (24-CR-52(P,3N+P)24-CR-49,,SIG) |  |
| C0269.018 | 3.7+08 |  | (27-CO-59(P,2N+P)27-CO-57,,SIG) |  |
| C0269.019 | 3.7+08 |  | (27-CO-59(P,3N+P)27-CO-56,,SIG) |  |
| C0269.020 | 3.7+08 |  | (31-GA-69(P,3N+P)31-GA-66,,SIG) |  |
| C0269.021 | 3.7+08 |  | (31-GA-69(P,4N+P)31-GA-65,,SIG) |  |
| C0269.022 | 3.7+08 |  | (31-GA-71(P,3N+P)31-GA-68,,SIG) |  |
| C0269.023 | 3.7+08 |  | (31-GA-71(P,5N+P)31-GA-66,,SIG) |  |
| C0282.002 | 2.9+09 |  | (29-CU-65(P,N+P)29-CU-64,,SIG) |  |
| C0282.003 | 2.9+09 |  | (30-ZN-66(P,N+P)30-ZN-65,,SIG) |  |
| C0282.004 | 2.9+09 |  | (32-GE-70(P,N+P)32-GE-69,,SIG) |  |
| C0282.005 | 2.9+09 |  | (32-GE-72(P,N+P)32-GE-71,,SIG) |  |
| C0282.006 | 2.9+09 |  | (34-SE-76(P,N+P)34-SE-75,,SIG) |  |
| C0282.007 | 2.9+09 |  | (35-BR-79(P,N+P)35-BR-78,,SIG) |  |
| C0282.008 | 2.9+09 |  | (35-BR-81(P,N+P)35-BR-80-G,,SIG) |  |
| C0282.009 | 2.9+09 |  | (35-BR-81(P,N+P)35-BR-80-M,,SIG) |  |
| C0299.002 | 2.5+08 | 4.4+08 | (33-AS-75(P,N+P)33-AS-74,,SIG) |  |
| C0299.003 | 2.5+08 | 4.4+08 | (35-BR-81(P,N+P)35-BR-80,,SIG) |  |
| C0299.004.1 | 2.5+08 | 4.4+08 | (35-BR-81(P,N+P)35-BR-80-M,,SIG) |  |
| C0299.004.2 | 2.5+08 | 4.4+08 | (35-BR-81(P,N+P)35-BR-80-M/G,,SIG/RAT) |  |
| C0299.005 | 2.5+08 | 4.4+08 | (35-BR-81(P,N+P)35-BR-80-G,,SIG) |  |
| C0299.006 | 2.5+08 | 4.4+08 | (40-ZR-96(P,N+P)40-ZR-95,,SIG) |  |
| C0299.007 | 2.5+08 | 4.4+08 | (53-I-127(P,N+P)53-I-126,,SIG) |  |
| C0299.008 | 2.5+08 | 4.4+08 | (58-CE-142(P,N+P)58-CE-141,,SIG) |  |
| C0299.009 | 2.5+08 | 4.4+08 | (74-W-186(P,N+P)74-W-185,,SIG) |  |
| C0299.010 | 2.5+08 | 4.4+08 | (75-RE-187(P,N+P)75-RE-186-G,,SIG) |  |
| C0299.011.2 | 2.5+08 | 4.4+08 | ((40-ZR-96(P,N+P)40-ZR-95,,SIG)/(40-ZR-96(P,2P)39-Y-95,,SIG)) |  |
| C0299.013.2 | 2.5+08 | 4.4+08 | ((58-CE-142(P,N+P)58-CE-141,,SIG)/(58-CE-142(P,2P)57-LA-141,,SIG)) |  |
| C0299.014.2 | 2.5+08 | 4.4+08 | ((74-W-186(P,N+P)74-W-185,,SIG)/(74-W-186(P,2P)73-TA-185,,SIG)) |  |
| C0329.002.3 | 3.7+08 |  | (26-FE-56(P,N+P)26-FE-55,,SIG) |  |
| C0329.003.4 | 3.7+08 |  | (26-FE-57(P,2N+P)26-FE-55,,SIG) |  |
| C0333.002.1 | 6.0+07 | 2.4+08 | (40-ZR-90(P,6N+2P)39-Y-83,,SIG) |  |
| C0333.002.2 | 6.0+07 | 2.4+08 | (40-ZR-90(P,5N+3P)38-SR-83,,SIG) |  |
| C0346.007 | 3.0+08 |  | (52-TE-126(P,N+P)52-TE-125-M,,SIG) |  |
| C0346.008.1 | 3.0+08 |  | (52-TE-128(P,N+P)52-TE-127-M,,SIG) |  |
| C0346.008.2 | 3.0+08 |  | (52-TE-128(P,N+P)52-TE-127-G,,SIG) |  |
| C0346.008.3 | 3.0+08 |  | (52-TE-128(P,N+P)52-TE-127-M/G,,SIG/RAT) |  |
| C0346.010.1 | 3.0+08 |  | (52-TE-130(P,N+P)52-TE-129-M,,SIG) |  |
| C0346.010.2 | 3.0+08 |  | (52-TE-130(P,N+P)52-TE-129-G,,SIG) |  |
| C0346.010.3 | 3.0+08 |  | (52-TE-130(P,N+P)52-TE-129-M/G,,SIG/RAT) |  |
| C0346.011 | 3.0+08 |  | (52-TE-122(P,N+P)52-TE-121-G,(M),SIG) |  |
| C0346.012 | 3.0+08 |  | (52-TE-124(P,N+P)52-TE-123-M,,SIG) |  |
| C0392.002 | 4.0+08 |  | (48-CD-106(P,N+P)48-CD-105,,SIG) |  |
| C0392.009 | 4.0+08 |  | (48-CD-108(P,N+P)48-CD-107,,SIG) |  |
| C0392.010 | 4.0+08 |  | (48-CD-110(P,N+P)48-CD-109,,SIG) |  |
| C0394.008 | 4.0+07 | 1.5+08 | (6-C-12(P,N+P)6-C-11,,SIG) |  |
| C0438.004 | 1.6+07 | 2.2+07 | (21-SC-45(P,N+P)21-SC-44-M,,SIG) |  |
| C0438.005 | 2.5+07 | 5.5+07 | (21-SC-45(P,N+P)21-SC-44-M,,SIG) |  |
| C0438.006 | 1.6+07 | 2.2+07 | (21-SC-45(P,N+P)21-SC-44-G,,SIG) |  |
| C0438.008 | 4.0+07 | 5.5+07 | (21-SC-45(P,N+3P)19-K-42,,SIG) |  |
| C0537.020 | 2.6+07 | 4.5+08 | (29-CU-65(P,N+P)29-CU-64,,SIG) |  |
| C0537.022 | 2.6+07 | 4.5+08 | (29-CU-63(P,2N+P)29-CU-61,,SIG) |  |
| C0699.002 | 7.3+07 | 4.0+08 | (29-CU-65(P,N+P)29-CU-64,,SIG) |  |
| C1400.002 | 3.0+07 | 3.2+07 | (28-NI-60(A,N+P)29-CU-62,,SIG) |  |
| C1400.003 | 1.3+07 | 5.0+07 | (28-NI-62(A,N+P)29-CU-64,,SIG) |  |
| C1649.003 | 1.0+07 | 1.9+07 | (41-NB-93(P,N+P)41-NB-92-M,,SIG) |  |
| D0052.002 | 1.4+07 | 3.0+07 | (28-NI-58(P,N+P)28-NI-57,,SIG) |  |
| D0067.003 | 3.4+07 | 4.7+07 | ((39-Y-89(A,4N)41-NB-89,,SIG)+(39-Y-89(A,3N+P)40-ZR-89,,SIG)) | 89Zr production cumulative cross section |
| D0137.006 | 4.0+07 | 4.7+07 | (41-NB-93(A,3N+P)42-MO-93-M,,SIG) |  |
| D0162.002 | 5.1+07 |  | (28-NI-58(P,N+P)28-NI-57,,SIG) |  |
| D0162.007 | 5.1+07 |  | (29-CU-65(P,N+P)29-CU-64,,SIG) |  |
| D0162.010 | 7.0+07 |  | (29-CU-63(HE3,3N+P)30-ZN-62,,SIG) |  |
| D0162.011 | 1.2+07 | 5.1+07 | (28-NI-58(P,N+P)28-NI-57,,SIG) |  |
| D0162.013 | 1.3+07 | 5.6+07 | (29-CU-65(P,N+P)29-CU-64,,SIG) |  |
| D4016.004 | 1.8+07 | 2.7+07 | (42-MO-92(A,N+P)43-TC-94-M,,SIG) |  |
| D4016.005 | 1.8+07 | 2.7+07 | (42-MO-92(A,N+P)43-TC-94-G,,SIG) |  |
| D4022.002 | 1.4+07 | 2.0+07 | (36-KR-78(P,N+P)36-KR-77,,SIG) |  |
| D4029.003 | 1.6+07 | 4.4+07 | (54-XE-124(P,N+P)54-XE-123,,SIG) |  |
| D4059.015 | 2.0+07 |  | (58-CE-142(D,N+2P)57-LA-141,,SIG) |  |
| D4060.003.2 | 2.0+07 | 8.5+07 | (22-TI-48(P,N+2P)21-SC-46,,SIG,,A) |  |
| D4060.004.1 | 2.0+07 | 8.5+07 | (22-TI-48(P,3N+2P)21-SC-44-G,(M),SIG,,A) |  |
| D4060.004.2 | 2.0+07 | 8.5+07 | (22-TI-48(P,4N+2P)21-SC-43,,SIG,,A) |  |
| D4060.008.1 | 1.5+07 | 8.5+07 | (22-TI-50(P,N+2P)21-SC-48,,SIG) |  |
| D4061.002.1 | 4.1+06 | 4.0+07 | (28-NI-58(D,2N+P)28-NI-57,,SIG) |  |
| D4061.002.2 | 4.1+06 | 4.0+07 | (28-NI-58(D,3N+P)28-NI-56,,SIG) |  |
| D4061.003.2 | 4.1+06 | 4.0+07 | (28-NI-58(D,N+2P)27-CO-57,,SIG) |  |
| D4061.006.1 | 1.5+07 | 6.0+07 | (26-FE-54(3-LI-6,2N+P)28-NI-57,,SIG) |  |
| D4061.006.3 | 1.5+07 | 6.0+07 | (26-FE-54(3-LI-6,N+2P)27-CO-57,,SIG) |  |
| D4094.002 | 1.4+07 | 1.8+07 | (79-AU-197(P,N+P)79-AU-196,,SIG) |  |
| D4105.003.1 | 1.5+07 | 4.0+07 | (21-SC-45(A,N+2P)21-SC-46,,SIG) |  |
| D4105.006.1 | 6.9+06 | 2.0+07 | ((22-TI-49(D,A)21-SC-47,,SIG,,FCT)+(22-TI-48(D,N+2P)21-SC-47,,SIG,,FCT)) |  |
| D4105.006.2 | 6.9+06 | 2.0+07 | ((22-TI-49(D,N+A)21-SC-46,,SIG,,FCT)+(22-TI-48(D,A)21-SC-46,,SIG,,FCT)) |  |
| D4105.007 | 9.4+06 | 1.7+07 | ((22-TI-50(D,N+A)21-SC-47,,SIG,,FCT)+(22-TI-48(D,N+2P)21-SC-47,,SIG,,FCT)+(22-TI-49(D,A)21-SC-47,,SIG,,FCT)) |  |
| D4145.002 | 1.9+07 | 2.6+07 | ((7-N-14(P,N+P)7-N-13,,SIG)+(7-N-14(P,D)7-N-13,,SIG)) |  |
| D4204.003 | 3.3+07 | 3.8+07 | (48-CD-114(A,3N+P)49-IN-114-M,,SIG) |  |
| D4204.004 | 2.4+07 | 3.8+07 | (48-CD-114(A,2N+P)49-IN-115-M,,SIG) |  |
| D4204.005 | 2.4+07 | 3.8+07 | (48-CD-114(A,N+P)49-IN-116-M,,SIG) |  |
| D4204.009 | 2.4+07 | 3.8+07 | (48-CD-116(A,3N+P)49-IN-116-M,,SIG) |  |
| D4204.010 | 2.8+07 | 3.8+07 | (48-CD-116(A,2N+P)49-IN-117-M,,SIG) |  |
| D4204.011 | 8.0+06 | 3.8+07 | (48-CD-116(A,2N+P)49-IN-117,,SIG) |  |
| D4204.012 | 2.8+07 | 3.8+07 | (48-CD-116(A,3N+2P)48-CD-115,,SIG) |  |
| D4212.006 | 3.7+07 | 6.7+07 | (41-NB-93(P,N+P)41-NB-92-M,,SIG) |  |
| D4227.004 | 2.5+06 | 4.0+07 | (73-TA-181(D,2N+P)73-TA-180-G,,SIG) |  |
| D4227.005 | 2.8+07 | 4.0+07 | (73-TA-181(D,4N+P)73-TA-178-G,,SIG) |  |
| D4227.006 | 2.0+07 | 4.0+07 | (73-TA-181(D,N+2P)72-HF-180-M,,SIG) |  |
| D4228.006 | 1.3+07 | 3.7+07 | (41-NB-93(P,N+P)41-NB-92-M,,SIG) |  |
| D4238.004 | 1.6+07 | 3.7+07 | (54-XE-124(P,N+P)54-XE-123,,SIG) |  |
| F1352.004 |  |  | ((23-V-51(7-N-14,4N)30-ZN-61,,SIG)+(23-V-51(7-N-14,3N+P)29-CU-61,,SIG)) | 61Cu production cumulative cross section |
| G4035.002 | UP TO | 8.4+07 | (40-ZR-90(G,2N+P)39-Y-87-M/G,,SIG/RAT,,BRA) |  |
| G4035.003 | UP TO | 8.4+07 | (40-ZR-91(G,3N+P)39-Y-87-M/G,,SIG/RAT,,BRA) |  |
| G4035.004 | UP TO | 8.4+07 | (40-ZR-90(G,3N+P)39-Y-86-M/G,,SIG/RAT,,BRA) |  |
| G4035.005 | UP TO | 8.4+07 | (40-ZR-91(G,4N+P)39-Y-86-M/G,,SIG/RAT,,BRA) |  |
| L0150.003 | 1.7+07 | 6.5+07 | ((14-SI-28(G,N)14-SI-27,,SIG,,BRS)+(14-SI-28(G,2N)14-SI-26,,SIG,,BRS/FCT)+(14-SI-28(G,N+P)13-AL-26-M,,SIG,,BRS)) |  |
| M0652.003 | 2.0+07 | 6.0+07 | (30-ZN-64(E,N+P)29-CU-62,,SIG) |  |
| M0652.005 | 2.0+07 | 6.0+07 | (30-ZN-64(G,N+P)29-CU-62,,SIG) |  |
| M0806.005 | UP TO | 6.5+07 | (38-SR-86(G,N+P)37-RB-84-M/G,,SIG/RAT,,BRA) |  |
| O0297.004 | 2.6+07 | 4.0+07 | (82-PB-204(P,2N+P)82-PB-202-M,IND,SIG) | Delete IND. |
| O0415.002 | 7.6+09 |  | (6-C-12(P,N+P)6-C-11,IND,SIG) | Delete IND. |
| O1238.006 | 4.0+07 | 4.9+07 | (27-CO-59(A,N+2P)27-CO-60,M+,SIG) |  |
| O1400.009 | 3.7+07 | 6.0+07 | (41-NB-93(6-C-12,4N+P)46-PD-100,,SIG) |  |
| O1400.010 | 5.6+07 | 6.1+07 | (41-NB-93(6-C-12,5N+P)46-PD-99,,SIG) |  |
| O1400.011 | 4.2+07 | 6.7+07 | (39-Y-89(8-O-16,3N+P)46-PD-101,,SIG) |  |
| O1400.012 | 4.9+07 | 6.7+07 | (39-Y-89(8-O-16,4N+P)46-PD-100,,SIG) |  |
| O1400.013 | 5.8+07 | 6.7+07 | (39-Y-89(8-O-16,5N+P)46-PD-99,,SIG) |  |
| O1407.010 | 5.0+07 | 1.1+08 | (41-NB-93(6-C-12,3N+P)46-PD-101,,SIG) |  |
| O1407.012 | 9.0+07 | 1.1+08 | (41-NB-93(6-C-12,5N+P)46-PD-99,,SIG) |  |
| O1407.013 | 8.7+07 | 1.1+08 | (41-NB-93(6-C-12,6N+P)46-PD-98,,SIG) |  |
| O1921.002 | 2.0+08 | 9.8+08 | ((6-C-12(P,N+P)6-C-11,,SIG)/(13-AL-27(P,X)11-NA-24,,SIG)) |  |
| P0019.005 | 1.3+07 | 1.5+07 | (48-CD-110(P,N+P)48-CD-109,,SIG) |  |
| P0030.002 | 2.5+07 | 6.5+07 | (26-FE-54(P,N+P)26-FE-53-M,,SIG) |  |
| P0030.005 | 4.5+07 | 8.0+07 | (26-FE-56(P,3N+P)26-FE-53-G,,SIG) |  |
| P0030.006 | 5.0+07 | 8.0+07 | (26-FE-56(P,3N+P)26-FE-53-M,,SIG) |  |
| P0030.011 | 2.0+07 | 2.8+07 | (26-FE-54(P,N+P)26-FE-53-G,,SIG) |  |
| P0032.002 | 2.2+07 | 1.5+08 | (25-MN-55(P,N+P)25-MN-54,,SIG) |  |
| P0032.003 | 2.0+07 | 1.5+08 | ((9-F-19(P,2N)10-NE-18,,SIG)+(9-F-19(P,N+P)9-F-18,,SIG)) | 18F production cumulative cross section |
| P0032.004 | 2.7+07 | 1.5+08 | (55-CS-133(P,N+P)55-CS-132,,SIG) |  |
| P0032.005 | 4.0+07 | 1.6+08 | (79-AU-197(P,N+P)79-AU-196,,SIG) |  |
| P0032.006 | 1.6+07 | 1.5+08 | ((11-NA-23(P,2N)12-MG-22,,SIG)+(11-NA-23(P,N+P)11-NA-22,,SIG)) | 22Na production cumulative cross section |
| P0056.004 | 3.1+07 | 3.8+07 | (25-MN-55(A,N+2P)25-MN-56,,SIG) |  |
| P0125.002 | 1.9+07 | 3.7+07 | (18-AR-40(A,N+P)19-K-42,,SIG) |  |
| P0139.002 | 2.2+07 | 4.2+07 | (15-P-31(7-N-14,N+P)21-SC-43,,SIG) |  |
| P0139.005 | 2.2+07 | 4.2+07 | (16-S-32(7-N-14,N+2P)21-SC-43,,SIG) |  |
| R0041.014 | 2.1+07 | 4.3+07 | (30-ZN-66(HE3,N+P)31-GA-67,,SIG) |  |
| R0046.002.6 | 1.0+07 | 5.1+07 | (33-AS-75(D,2N+P)33-AS-74,,SIG) |  |
| R0046.002.7 | 1.0+07 | 5.1+07 | (33-AS-75(D,3N+P)33-AS-73,,SIG) |  |
| R0052.010 | 2.5+07 | 3.9+07 | (68-ER-166(A,N+P)69-TM-168,,SIG) |  |
| R0052.013 | 3.3+07 | 3.9+07 | (68-ER-167(A,2N+P)69-TM-168,,SIG) |  |
| S0018.005 | 9.7+06 | 1.3+07 | (79-AU-197(D,2N+P)79-AU-196-G,,SIG) |  |
| S0040.004 | 1.4+07 | 2.2+07 | (39-Y-89(P,N+P)39-Y-88,,SIG) |  |

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