

Attachment (From R.A. Forrest, "FENDL/D-2.0 and testing of FENDL/A-2.0", presented at the IAEA Advisory Group Meeting on "Extension and Improvement of the FENDL Library for Fusion Applications", Vienna, March 1997.)

Comparison of FENDL/D-1.0 and FENDL/D-2.0

The listing shows all the radionuclides present in FENDL/D-2.0. The identification number is shown in column 1, column 2 gives the nuclide name, column 3 the half-life (seconds) given in FENDL/D-2.0, column 4 the ratio of half-lives in FENDL/D-1.0 to FENDL/D-2.0, and columns 5 - 7 the ratio of mean alpha, beta and gamma energies in FENDL/D-1.0 to FENDL/D-2.0. No entry in columns 5 - 7 signifies that a value of zero is present in FENDL/D-2.0. Half-life ratios greater than 1.5 or less than 0.6667 are flagged by the symbol '<<<<' in column 8.

ID	Nuclide	FENDL/D-2.0	FENDL/D-1.0	to FENFL/D-2.0 ratios		
		Half-life(s)	Half-life	alpha	beta	gamma
3	H - 3	3.8910E+08	1.0000		0.9971	
6	HE- 6	8.0810E-01	0.9983		1.0056	0.0000
7	LI- 5	3.0000E-22	1.0000	1.0000		
10	LI- 8	8.4200E-01	0.9952		1.0015	
11	LI- 9	1.7830E-01	0.9927		0.0000	0.0000
12	BE- 6	5.0000E-21	1.0000			
13	BE- 7	4.6051E+06	0.9989		0.0000	0.0000
14	BE- 8	7.0000E-17	1.0000	0.0000		
16	BE- 10	5.0492E+13	1.0000		0.5029	
17	BE- 11	1.3810E+01	1.0000	0.1519	1.0006	1.0150
18	B - 8	7.7000E-01	1.0000		1.0000	1.0000
19	B - 9	8.0000E-19	1.0000	1.0000		
22	B - 12	2.0200E-02	1.0000	1.1443	1.0064	0.6289
23	B - 13	1.7400E-02	0.9977		1.0064	0.9834
24	C - 9	1.2650E-01	1.0040		0.0000	0.0000
25	C - 10	1.9260E+01	1.0000		0.0000	1.0000
26	C - 11	1.2231E+03	1.0000		1.0000	1.0000
29	C - 14	1.8082E+11	1.0000		0.9999	
30	C - 15	2.4490E+00	1.0000		1.0049	1.2784
31	N - 12	1.1000E-02	1.0000	0.9998	1.0005	1.0000
32	N - 13	5.9790E+02	1.0000		0.9995	0.9975
35	N - 16	7.1200E+00	1.0014		1.0374	0.9725
36	N - 17	4.1690E+00	1.0000		1.0000	1.0000
37	N - 18	6.3000E-01	1.0000	1.0000	1.0000	1.0000

38	O - 14	7.0599E+01	1.0000		1.0000	1.0000
39	O - 15	1.2224E+02	1.0000		1.0000	1.0000
43	O - 19	2.6910E+01	1.0000		1.0184	0.9357
44	O - 20	1.3570E+01	1.0000		1.0000	1.0000
45	F - 17	6.4490E+01	1.0002		0.0000	0.0000
46	F - 18	6.5820E+03	1.0006		0.9685	0.9687
48	F - 20	1.1030E+01	0.9973		1.0056	0.9935
49	F - 21	4.3200E+00	1.0000		1.0082	3.9143
50	F - 22	4.2400E+00	1.0000	1.0064	1.0042	1.1774
51	F - 23	2.2300E+00	1.0000	16.1290	16.2500	1.4811
52	NE- 18	1.6720E+00	1.0000		1.0000	1.0000
53	NE- 19	1.7220E+01	1.0000		1.0000	1.0000
57	NE- 23	3.7200E+01	1.0011		1.0063	0.9549
58	NE- 24	2.0280E+02	1.0000		1.0000	1.0000
59	NE- 25	6.0200E-01	1.0000	1.0000	1.0000	1.0000
60	NA- 20	4.4600E-01	1.0000	1.0000	1.0000	1.0000
61	NA- 21	2.2490E+01	1.0000		1.0000	1.0000
62	NA- 22	8.2144E+07	0.9996		0.9918	0.9971
64	NA- 24	5.3928E+04	0.9786		1.0023	0.9997
65	NA- 24M	2.0200E-02	0.9990		0.0654	1.0046
66	NA- 25	5.9600E+01	1.0000		1.0090	0.9979
67	NA- 26	1.0800E+00	0.9926		1.0692	0.9902
68	NA- 27	3.0400E-01	1.0000	1.0000	1.0000	1.0000
69	NA- 28	3.0500E-02	1.0000	1.0182	1.0328	0.7193
70	MG- 22	3.8570E+00	1.0000		1.0007	1.0006
71	MG- 23	1.1317E+01	1.0000		1.0000	1.0000
75	MG- 27	5.6770E+02	1.0000		1.0003	1.0000
76	MG- 28	7.5276E+04	1.0000		1.0388	1.0004
77	MG- 29	1.3000E+00	1.0615		0.8846	1.2903
78	AL- 24	2.0660E+00	1.0019	0.0000	0.0000	0.0000
79	AL- 24M	1.3000E-01	1.0000		1.5614	1.7770
80	AL- 25	7.1830E+00	1.0000		1.0429	1.0694
81	AL- 26	2.2721E+13	1.0000		0.8982	1.0000
82	AL- 26M	6.3450E+00	1.0000		1.0049	3.0109
84	AL- 28	1.3446E+02	0.9998		1.0032	0.9977
85	AL- 29	3.9400E+02	1.0000		1.0113	1.3159
86	AL- 30	3.6000E+00	1.0000		0.9957	1.9199
87	AL- 31	6.4000E-01	1.0000		0.0000	0.0000

88	AL- 32	3.3000E-02	1.0000	0.0000	0.0000	0.0000
89	SI- 26	2.2100E+00	1.0000		1.0000	1.0000
90	SI- 27	4.1700E+00	1.0000		1.0000	1.0000
94	SI- 31	9.4380E+03	1.0001		1.0002	0.9848
95	SI- 32	5.4279E+09	1.9160		0.9404	<<<
96	SI- 33	6.1800E+00	0.9871		0.0000	0.0000
97	SI- 34	2.7700E+00	1.0108		0.0000	0.0000
98	P - 28	2.7030E-01	1.0000	1.0000	1.0000	1.0000
99	P - 29	4.1400E+00	1.0005		1.0029	0.4329
100	P - 30	1.4988E+02	1.0000		1.0001	0.9997
102	P - 32	1.2320E+06	1.0001		1.0000	
103	P - 33	2.1946E+06	0.9975		0.9978	
104	P - 34	1.2400E+01	1.0024		1.0099	0.9498
105	P - 35	4.7300E+01	1.0000		0.9340	0.9958
106	P - 36	5.6000E+00	1.0536		0.0000	0.7322
107	S - 30	1.1780E+00	1.0526		0.9933	1.0124
108	S - 31	2.5720E+00	1.0047		0.9995	0.9999
112	S - 35	7.5600E+06	1.0001		0.9959	
114	S - 37	2.9940E+02	1.0120		1.0098	0.9977
115	S - 38	1.0220E+04	1.0000		0.9796	1.0118
116	S - 39	1.1500E+01	1.0000		1.0000	1.0000
117	S - 40	9.0000E+00	1.0000		0.0000	0.0000
118	CL- 32	2.9800E-01	1.0000	1.0000	1.0000	1.0000
119	CL- 33	2.5110E+00	1.0000		1.0183	1.9876
120	CL- 34	1.5260E+00	1.0001		1.0033	0.9922
121	CL- 34M	1.9260E+03	1.0040		1.0431	1.0694
123	CL- 36	9.5304E+12	0.9967		0.9013	0.8601
125	CL- 38	2.2320E+03	1.0009		1.0177	0.9506
126	CL- 38M	7.7000E-01	0.9286			0.9995
127	CL- 39	3.3360E+03	1.0000		1.0097	3.5103
128	CL- 40	8.1000E+01	1.0000		1.0000	1.8985
129	CL- 41	3.4000E+01	1.0000		1.0000	1.9222
130	CL- 42	6.8000E+00	1.0000		0.0000	0.0000
131	AR- 34	8.4500E-01	0.9988		1.0000	1.0000
132	AR- 35	1.7750E+00	1.0000		1.0015	0.9990
134	AR- 37	3.0275E+06	1.0000		0.8461	1.1127
136	AR- 39	8.4890E+09	1.0000		1.0007	
138	AR- 41	6.5772E+03	1.0000		1.0490	1.0000

139	AR- 42	1.0414E+09	0.9969		1.0000	
140	AR- 43	3.2200E+02	1.0000		1.0000	1.0000
141	AR- 44	7.1200E+02	1.0000		1.0000	1.0000
142	AR- 45	2.1480E+01	1.0000		1.0000	1.0000
143	AR- 46	8.4000E+00	1.0000		1.0000	1.0000
144	K - 36	3.4200E-01	1.0000	1.0000	0.9943	1.0000
145	K - 37	1.2260E+00	1.0000		1.0026	0.9897
146	K - 38	4.5660E+02	1.0034		0.9972	0.9972
147	K - 38M	9.2400E-01	1.0006		1.0036	0.9909
149	K - 40	4.0394E+16	0.9976		0.9156	0.9917
151	K - 42	4.4532E+04	0.9992		1.0056	0.9785
152	K - 43	7.9920E+04	1.0048		1.0144	0.9885
153	K - 44	1.3278E+03	1.0002		1.0166	0.9953
154	K - 45	1.0400E+03	1.0000		1.0000	1.0000
155	K - 46	9.5000E+01	1.0000		1.0000	1.0000
156	K - 47	1.7500E+01	1.0000		1.0000	1.0000
157	K - 48	6.8000E+00	1.0000	1.0000	1.0000	1.0000
158	CA- 38	4.4000E-01	0.9886		1.0123	1.7518
159	CA- 39	8.5960E-01	1.0000		1.0048	3.0051
161	CA- 41	3.2504E+12	1.0000		0.9022	0.9785
165	CA- 45	1.4057E+07	1.0068		0.9985	0.0368
167	CA- 47	3.9208E+05	0.9996		1.0185	0.9902
169	CA- 49	5.2320E+02	0.9994		1.0029	1.9702
170	SC- 40	1.8230E-01	1.0000	1.0000	1.0000	1.0000
171	SC- 41	5.9630E-01	1.0000		1.0000	1.0000
172	SC- 42	6.8130E-01	1.0000		1.0000	1.0000
173	SC- 42M	6.1600E+01	1.0000		1.0000	1.0000
174	SC- 43	1.4010E+04	1.0000		1.0000	1.0000
175	SC- 44	1.4137E+04	1.0000		1.0026	0.9829
176	SC- 44M	2.1096E+05	1.0001		1.0207	1.0164
178	SC- 45M	3.1600E-01	1.0000		1.0000	1.0000
179	SC- 46	7.2420E+06	0.9999		0.9975	1.0000
180	SC- 46M	1.8700E+01	1.0027		0.9992	1.0042
181	SC- 47	2.8909E+05	0.9997		1.0017	0.9951
182	SC- 48	1.5721E+05	1.0007		1.0338	0.9998
183	SC- 49	3.4320E+03	1.0000		1.0005	1.0400
184	SC- 50	1.0250E+02	1.0010		1.0159	0.9984
185	SC- 50M	3.5000E-01	1.0000		0.2138	0.9266

186	TI- 42	1.9900E-01	1.0000	1.0000	1.0000
187	TI- 43	4.9000E-01	1.0000	1.0000	1.0000
188	TI- 44	1.4900E+09	1.0018	1.0208	1.0000
189	TI- 45	1.1088E+04	1.0002	0.9999	0.9997
195	TI- 51	3.4800E+02	0.9931	1.0002	1.0122
196	TI- 52	1.0200E+02	1.0000	1.0053	1.0000
197	TI- 53	3.2700E+01	1.0000	1.0000	1.0000
198	V - 44	9.0000E-02	1.0000	0.0000	0.0000
199	V - 45	5.3900E-01	1.0000	1.0000	1.0000
200	V - 46	4.2240E-01	1.0000	1.0000	1.0000
201	V - 47	1.9560E+03	1.0000	1.0000	1.0000
202	V - 48	1.3802E+06	1.0000	1.2504	0.9995
203	V - 49	2.8512E+07	1.0242	0.9717	0.9969
204	V - 50	4.7000E+24	1.0000	1.0000	1.0000
206	V - 52	2.2470E+02	1.0013	1.0042	0.9977
207	V - 53	9.7200E+01	0.9938	1.0039	1.0012
208	V - 54	4.9800E+01	1.0000	1.1344	1.1812
209	CR- 46	2.6000E-01	1.0000	1.0000	1.0000
210	CR- 47	5.0800E-01	1.0000	1.0100	1.9971
211	CR- 48	7.7620E+04	1.0000	2.8537	5.7315
212	CR- 49	2.5140E+03	1.0095	1.0092	1.0055
214	CR- 51	2.3938E+06	0.9999	0.9753	1.0197
218	CR- 55	2.1240E+02	0.9879	1.0041	708.4894
219	CR- 56	3.5600E+02	1.0000	1.0181	33.3836
220	CR- 57	2.1100E+01	1.0000	1.0000	7.6889
221	CR- 58	7.0000E+00	1.0000	0.0000	0.0000
222	MN- 48	1.5000E-01	1.0000	0.0000	0.0000
223	MN- 49	3.8400E-01	1.0000	1.0000	1.0000
224	MN- 50	2.8300E-01	1.0000	1.0000	1.0000
225	MN- 50M	1.0500E+02	1.0000	1.0000	1.0000
226	MN- 51	2.7720E+03	1.0000	1.0000	1.0000
227	MN- 52	4.8310E+05	1.0000	1.0000	1.0000
228	MN- 52M	1.2660E+03	1.0000	1.0657	0.9828
229	MN- 53	1.1668E+14	1.0115	1.0196	1.0366
230	MN- 54	2.6983E+07	0.9994	0.9750	1.0000
232	MN- 56	9.2844E+03	0.9998	1.0087	0.9949
233	MN- 57	9.6600E+01	0.9027	1.0026	1.3697
234	MN- 58	6.5300E+01	0.0459	1.8229	0.0000<<<

235	MN- 58M	3.0000E+00	21.7667	0.6165	1.1656<<<
236	MN- 59	4.6000E+00	1.0000	1.0000	1.0000
237	MN- 60	1.7900E+00	1.0000	1.0000	1.0000
240	FE- 51	3.1000E-01	1.0000	1.0091	1.2959
241	FE- 52	2.9790E+04	1.0000	1.1347	2.7778
242	FE- 52M	4.6000E+01	0.9978	0.9900	1.8705
243	FE- 53	5.1060E+02	1.0000	1.0208	3.4621
244	FE- 53M	1.5480E+02	1.0013		2.2836
246	FE- 55	8.6314E+07	0.9981	0.9636	0.9983
250	FE- 59	3.8450E+06	0.9999	0.9966	0.9990
251	FE- 60	2.3700E+14	0.1997	0.4793	0.0000<<<
252	FE- 61	3.5880E+02	1.0006	1.0997	3.8246
253	FE- 62	6.8000E+01	1.0000	1.0047	8.7572
254	FE- 63	6.1000E+00	0.9836	0.0000	0.0000
255	FE- 64	2.0000E+00	1.0000	0.0000	0.0000
257	CO- 54	1.9320E-01	1.0000	1.0051	3.0002
258	CO- 54M	8.8800E+01	1.0000	1.0056	1.7786
259	CO- 55	6.3108E+04	1.0000	1.0010	3.0294
260	CO- 56	6.6787E+06	0.9976	0.9999	2.3678
261	CO- 57	2.3483E+07	1.0000	0.4434	0.9977
262	CO- 58	6.1223E+06	1.0008	0.9938	0.9998
263	CO- 58M	3.2184E+04	1.0222	0.9073	2856.3120
265	CO- 60	1.6636E+08	0.9999	0.9968	1.0002
266	CO- 60M	6.2820E+02	1.0000	1.0212	0.9526
267	CO- 61	5.9400E+03	1.0000	1.0083	58.4300
268	CO- 62	9.0000E+01	1.0000	0.0000	0.0000
269	CO- 62M	8.3460E+02	1.0005	2.6014	3.5209
270	CO- 63	2.7400E+01	1.0000	0.9726	44.6131
271	CO- 64	3.0000E-01	1.0000	0.9925	27.9979
272	CO- 65	1.2500E+00	1.0000	0.0000	0.0000
273	CO- 66	2.3000E-01	1.0000	0.0000	0.0000
274	NI- 55	1.8900E-01	1.0000	1.0000	1.0000
275	NI- 56	5.2704E+05	0.9999	1.0175	1.0002
276	NI- 57	1.2852E+05	0.9986	0.9561	0.9908
278	NI- 59	2.3984E+12	0.9868	0.9540	1.1596
282	NI- 63	3.1242E+09	1.0111	1.0001	
284	NI- 65	9.0720E+03	1.0000	1.0084	0.9983
285	NI- 66	1.9656E+05	1.0002	1.0462	

286	NI- 67	1.8000E+01	1.1667	0.0000	0.0000
287	NI- 68	7.6000E+00	2.5000	0.0000	0.0000<<<
288	NI- 69	1.1400E+01	0.8772	0.0000	0.0000
292	CU- 57	2.3300E-01	1.0000	1.0000	1.0000
293	CU- 58	3.2040E+00	1.0000	1.0091	1.6623
294	CU- 59	8.1500E+01	1.0000	1.0114	2.4151
295	CU- 60	1.4630E+03	1.0000	1.0111	1.7801
296	CU- 61	1.2270E+04	1.0000	1.0000	5.8072
297	CU- 62	5.8500E+02	0.9990	0.9981	0.9913
299	CU- 64	4.5727E+04	0.9999	0.9734	1.0007
301	CU- 66	3.0600E+02	1.0000	1.0050	0.9528
302	CU- 67	2.2270E+05	1.0009	1.0409	51.2392
303	CU- 68	3.1100E+01	1.0000	1.0000	6.6765
304	CU- 68M	2.2500E+02	1.0000	1.0196	6.2727
305	CU- 69	1.8000E+02	0.9500	0.8624	28.5135
306	CU- 70	4.5000E+00	1.0000	1.0000	12.1538
307	CU- 70M	4.7000E+01	1.0000	1.0000	3.0495
308	CU- 71	1.9500E+01	1.0256	0.0000	0.0000
309	CU- 72	6.6000E+00	1.0000	1.0000	3.9331
311	ZN- 59	1.8370E-01	1.0000	1.0000	1.0000
312	ZN- 60	1.4300E+02	1.0000	1.0000	1.0000
313	ZN- 61	8.9100E+01	1.0000	1.0000	1.0000
314	ZN- 62	3.3340E+04	1.0000	1.0000	1.0000
315	ZN- 63	2.3040E+03	0.9922	1.0033	0.9971
317	ZN- 65	2.1104E+07	0.9985	0.9622	1.0012
321	ZN- 69	3.4200E+03	0.9883	1.0012	0.9836
322	ZN- 69M	4.9536E+04	1.0001	0.9944	0.9988
324	ZN- 71	1.4700E+02	1.0000	1.0021	0.9999
325	ZN- 71M	1.4184E+04	1.0054	0.9989	0.9910
326	ZN- 72	1.6740E+05	1.0000	1.0010	1.0000
327	ZN- 73	2.3500E+01	1.0000	1.0000	1.0000
328	ZN- 73M	5.8000E+00	1.0000	0.0000	0.0000
329	ZN- 74	9.5600E+01	1.0042	1.0025	0.9067
330	ZN- 75	1.0200E+01	1.0000	0.9381	1.0440
331	ZN- 76	5.7000E+00	0.9825	1.1932	0.4116
332	GA- 64	1.5780E+02	1.0000	1.0056	1.5953
333	GA- 65	9.1200E+02	1.0000	1.0125	3.6754
334	GA- 66	3.4200E+04	1.0000	1.0000	2.6057

335	GA- 67	2.8175E+05	1.0000	1.0667	30.2774
336	GA- 68	4.0577E+03	1.0000	1.0000	5.7869
338	GA- 70	1.2684E+03	1.0000	1.0022	747.3973
340	GA- 72	5.0760E+04	1.0000	0.9940	0.9996
341	GA- 73	1.7532E+04	0.9979	0.9184	1.6916
342	GA- 74	4.8700E+02	1.0004	0.9830	0.9990
343	GA- 74M	9.5000E+00	1.0000	0.9664	1.0062
344	GA- 75	1.3020E+02	0.9677	0.9392	5.2914
345	GA- 76	2.7100E+01	1.2030	0.9180	1.0017
346	GA- 77	1.3200E+01	1.0000	0.0000	0.0000
347	GE- 66	8.1400E+03	1.0000	1.0000	1.0000
348	GE- 67	1.1200E+03	1.0000	1.0000	1.0000
349	GE- 68	2.3399E+07	1.0000	1.0000	1.0000
350	GE- 69	1.4060E+05	1.0000	1.0000	1.0000
352	GE- 71	9.8800E+05	1.0000	1.0000	1.0000
355	GE- 73M	5.0000E-01	0.9980	0.9755	1.0089
357	GE- 75	4.9668E+03	1.0000	0.9998	1.0019
358	GE- 75M	4.7700E+01	1.0000	0.9572	0.9999
360	GE- 77	4.0680E+04	1.0000	1.0295	0.9481
361	GE- 77M	5.2900E+01	1.0000	0.9296	0.9848
362	GE- 78	5.2200E+03	1.0115	0.9588	0.9998
363	GE- 79	1.9100E+01	1.0000	1.0399	1.0032
364	GE- 79M	3.9000E+01	1.0000	0.9120	0.9882
365	GE- 80	2.9500E+01	1.0000	1.0500	1.3953
366	GE- 81	7.6000E+00	1.0000	0.0000	0.0000
367	GE- 81M	7.5000E+00	1.0133	0.0000	0.0000
368	AS- 68	1.5160E+02	0.2770	0.0000	0.0000<<<
369	AS- 69	9.1400E+02	1.0000	1.0376	1.8940
370	AS- 70	3.1560E+03	1.0000	1.0119	1.4726
371	AS- 71	2.3500E+05	1.0000	1.0259	5.9792
372	AS- 72	9.3600E+04	1.0000	1.0000	2.7809
373	AS- 73	6.9380E+06	1.0000	1.0451	256.8998
374	AS- 74	1.5362E+06	0.9994	0.9951	6.3450
376	AS- 76	9.4752E+04	1.0000	1.0053	0.9624
377	AS- 77	1.3979E+05	1.0000	1.0004	0.9434
378	AS- 78	5.4420E+03	1.0000	0.9680	1.0000
379	AS- 79	5.4060E+02	1.0000	1.0630	0.8773
380	AS- 80	1.6500E+01	0.9212	1.0406	0.7864

381	AS- 81	3.3000E+01	1.0091	1.0128	1.5753
382	AS- 82	1.9100E+01	1.0000	2.2731	0.0782
383	AS- 82M	1.3600E+01	1.0000	0.9513	0.8333
384	SE- 70	2.4660E+03	1.0000	1.0000	1.0577
385	SE- 71	2.8400E+02	1.0000	1.0000	1.0000
386	SE- 72	7.2600E+05	1.0000	1.0000	1.0000
387	SE- 73	2.5700E+04	1.0000	1.0000	1.0000
388	SE- 73M	2.3900E+03	1.0000	1.0000	1.0000
390	SE- 75	1.0337E+07	1.0011	0.9898	1.0046
393	SE- 77M	1.7360E+01	1.0052	1.0141	0.9966
395	SE- 79	2.0512E+12	0.5077	1.0200	0.0000<<<
396	SE- 79M	2.34608+02	1.0000	1.0047	0.8630
398	SE- 81	1.1100E+03	0.9973	1.0066	0.5598
399	SE- 81M	3.4350E+03	1.0000	0.9943	0.8373
400	SE- 82	4.4000E+27	0.0000	0.0000	0.0000<<<
401	SE- 83	1.3400E+03	0.9985	0.7600	1.0763
402	SE- 83M	7.0100E+01	1.0000	0.9500	1.0000
403	SE- 84	1.8600E+02	1.0323	1.0075	1.0000
404	SE- 85	3.1700E+01	1.0000	1.0932	0.9307
405	BR- 72	7.8600E+01	1.0000	1.0108	1.2211
407	BR- 73	2.0400E+02	1.0000	1.0148	2.0861
408	BR- 74	1.52408+03	1.0000	1.0000	1.5724
409	BR- 74M	2.7600E+03	1.0000	1.0075	1.8995
410	BR- 75	5.8200E+03	1.0000	1.0000	4.7583
411	BR- 76	5.8300E+04	1.0000	1.0000	2.8813
412	BR- 76M	1.3100E+00	1.0000		171.2353
413	BR- 77	2.0533E+05	1.0000	1.0000	19.0405
414	BR- 77M	2.5700E+02	1.0000		403.6805
415	BR- 78	3.8760E+02	1.0000	1.0000	1.0000
417	BR- 79M	4.8800E+00	0.9959	0.9461	1.0085
418	BR- 80	1.0560E+03	1.0045	1.0013	0.9870
419	BR- 80M	1.5876E+04	1.0023	0.9812	0.9934
421	BR- 82	1.2715E+05	0.9994	1.0092	1.0004
422	BR- 82M	3.6540E+02	1.0066	0.9987	0.9901
423	BR- 83	8.6040E+03	1.0042	1.0175	0.9330
424	BR- 84	1.9080E+03	1.0000	1.1345	0.9875
425	BR- 84M	3.6000E+02	1.0000	0.9879	1.0000
426	BR- 85	1.7200E+02	1.0012	0.9914	1.0000

427	BR- 86	5.5000E+01	1.0018	1.0234	0.9357
428	KR- 74	6.9000E+02	1.0000	1.0000	1.0000
429	KR- 75	2.5800E+02	1.0000	1.0000	0.8978
430	KR- 76	5.3300E+04	1.0000	1.0537	1.0000
431	KR- 77	4.4600E+03	1.0000	1.0000	1.0000
433	KR- 79	1.2614E+05	1.0000	0.9781	0.9970
434	KR- 79M	5.0000E+01	1.0000	0.9549	1.0025
436	KR- 81	6.6226E+12	1.0150	1.0365	1.4418
437	KR- 81M	1.3000E+01	1.0000	0.8848	1.0302
440	KR- 83M	6.5880E+03	1.0000	0.9161	0.9284
442	KR- 85	3.3830E+08	1.0000	1.0012	1.0090
443	KR- 85M	1.6128E+04	1.0000	1.0003	0.9936
445	KR- 87	4.5780E+03	1.0001	0.9859	1.0000
446	KR- 88	1.0224E+04	1.0000	1.0211	1.0015
447	KR- 89	1.9020E+02	1.0000	1.7740	0.5815
448	RB- 78	1.0600E+03	1.0000	1.0000	1.0000
449	RB- 78M	3.4400E+02	1.0000	1.0000	1.0000
450	RB- 79	1.3700E+03	1.0029	0.8750	0.0000
451	RB- 80	3.4000E+01	1.0000	1.0000	1.0000
452	RB- 81	1.6474E+04	1.0000	1.0000	1.0000
453	RB- 81M	1.8290E+03	1.0000	1.0000	1.0000
454	RB- 82	7.6380E+01	1.0000	1.0000	1.0000
455	RB- 82M	2.3299E+04	1.0000	1.0000	1.0000
456	R8- 83	7.4480E+06	1.0000	1.0280	1.0000
457	RB- 84	2.8310E+06	1.0032	0.9937	0.9933
458	RB- 84M	1.2156E+03	1.0114	0.8987	0.9896
460	RB- 86	1.6122E+06	0.9985	1.0010	0.9849
461	RB- 86M	6.1020E+01	1.0000	1.0281	1.0027
462	RB- 87	1.5137E+18	1.0007	1.0368	
463	RB- 88	1.0680E+03	0.9989	1.0054	0.9995
464	RB- 89	9.0900E+02	1.0033	0.9150	1.1897
465	RB- 90	1.5300E+02	1.0000	1.2483	0.6506
466	RB- 90M	2.5800E+02	1.0000	1.1151	0.9016
467	SR- 80	6.3800E+03	1.0000	1.0000	1.0000
468	SR- 81	1.3380E+03	1.0000	1.0000	1.0000
469	SR- 82	2.2080E+06	1.0000	1.0000	1.0000
470	SR- 83	1.1668E+05	1.0000	1.0000	1.0000
471	SR- 83M	4.9500E+00	1.0000	1.0000	1.0000

473	SR- 85	5.6030E+06	0.9999	0.9451	0.9998
474	SR- 85M	4.0566E+03	1.0007	0.9587	0.9999
477	SR- 87M	1.0116E+04	1.0000	0.9528	6.2933
479	SR- 89	4.3649E+06	1.0006	1.0017	0.0000
480	SR- 90	9.0374E+08	0.9829	1.0013	
481	SR- 91	3.4272E+04	1.0000	0.9996	0.9999
482	SR- 92	9.7560E+03	1.0000	0.9215	1.1858
483	SR- 93	4.3920E+02	1.0141	0.8589	1.2920
485	SR- 95	2.5100E+01	1.0000	1.1032	0.7626
486	SR- 96	1.0600E+00	1.0000	0.8749	1.0393
487	Y - 82	9.5000E+00	1.0000	1.0000	1.0000
488	Y - 83	4.2500E+02	1.0000	1.0000	1.0000
489	Y - 83M	1.7100E+02	1.0000	1.0000	1.0000
490	Y - 84	4.6000E+00	1.0000	1.0000	1.0000
491	Y - 84M	2.4000E+03	1.0000	1.0000	1.0000
492	Y - 85	9.6500E+03	1.0000	1.0000	1.0000
493	Y - 85M	1.7500E+04	1.0000	1.0000	1.0000
494	Y - 86	5.3060E+04	1.0000	1.0000	1.0000
495	Y - 86M	2.8800E+03	1.0000	1.0000	1.0000
496	Y - 87	2.8910E+05	1.0000	1.0000	1.0000
497	Y - 87M	4.6400E+04	1.0000	1.0000	1.0000
498	Y - 88	9.2128E+06	1.0002	0.9351	0.9994
500	Y - 89M	1.6050E+01	1.0006	0.9697	1.0001
501	Y - 90	2.3080E+05	0.9998	1.0039	0.0006
502	Y - 90M	1.1484E+04	1.0000	0.9466	1.0009
503	Y - 91	5.0553E+06	1.0000	1.0018	0.9959
504	Y - 91M	2.9826E+03	1.0000	0.9707	1.0007
505	Y - 92	1.2744E+04	1.0000	0.9931	1.0019
506	Y - 93	3.6360E+04	1.0000	1.0014	0.9466
507	Y - 93M	8.2000E-01	1.0000	0.9738	1.0029
508	Y - 94	1.1460E+03	0.9791	1.0123	0.8578
509	Y - 95	6.1800E+02	1.0194	1.0052	1.2170
510	Y - 96	6.2000E+00	0.9516	0.9988	4.4000
511	Y - 96M	1.0000E+01	0.9600	0.8110	1.1099
513	Y - 97	3.7000E+00	0.9459	0.9872	1.0909
514	Y - 97M	1.2100E+00	1.0165	1.0052	1.8977
515	ZR- 84	1.5500E+03	1.0000	0.0000	1.0000
516	ZR- 85	4.7160E+02	1.0000	1.0000	1.0000

517	ZR- 85M	1.0900E+01	1.0000		0.0000
518	ZR- 86	5.9400E+04	1.0000	1.0066	1.0014
519	ZR- 87	6.2400E+03	1.0000	1.0000	1.0000
520	ZR- 87M	1.4000E+01	1.0000	1.0000	1.0000
521	ZR- 88	7.2058E+06	1.0006	0.9562	0.9730
522	ZR- 89	2.8224E+05	1.0004	1.0077	1.0123
523	ZR- 89M	2.5080E+02	1.0000	0.9530	0.9937
525	ZR- 90M	8.3000E-01	0.9747		0.2941
528	ZR- 93	4.8283E+13	1.0000	0.9970	
530	ZR- 95	5.5322E+06	0.9998	1.0032	1.0020
532	ZR- 97	6.0840E+04	1.0000	0.9753	0.9938
533	ZR- 98	3.0700E+01	1.0000	0.9924	
534	ZR- 99	2.1000E+00	1.0000	1.0269	0.9075
535	NB- 86	8.8000E+01	1.0000	1.0000	1.0000
536	NB- 87	1.5600E+02	1.0000	1.0000	1.0000
537	NB- 87M	2.2900E+02	1.0000	1.0000	1.0000
538	NB- 88	8.7000E+02	1.0000	1.0000	1.0000
539	NB- 88M	4.6800E+02	1.0000	1.0000	1.0074
540	NB- 89	7.3200E+03	0.5806	0.7258	1.3721<<<
541	NB- 89M	3.9600E+03	1.7172	1.3457	0.7461<<<
542	NB- 90	5.2560E+04	1.0000	1.0000	1.0000
543	NB- 90M	1.8820E+01	0.9989	0.0000	1.5121
544	NB- 91	2.1459E+10	1.0000	0.9737	1.0041
545	NB- 91M	5.3568E+06	1.0000	0.9606	0.5530
546	NB- 92	1.1038E+15	1.0006	1.4374	0.9999
547	NB- 92M	8.7696E+05	1.0000	1.1149	1.0000
549	NB- 93M	5.0890E+08	1.0002	0.9352	0.9618
550	NB- 94	6.3072E+11	1.0157	0.8617	1.0003
551	NB- 94M	3.7560E+02	1.0000	0.9975	0.9535
552	NB- 95	3.0218E+06	0.9999	0.9990	1.0000
553	NB- 95M	3.1176E+05	1.0005	0.9790	0.9570
554	NB- 96	8.4060E+04	1.0000	1.0121	1.0155
555	NB- 97	4.3260E+03	1.0000	1.0042	0.9975
556	NB- 97M	6.0000E+01	1.0000	0.9927	0.9994
557	NB- 98	2.8000E+00	1.0214	0.7363	6.1310
558	NB- 98M	3.0780E+03	1.0000	0.9101	1.0000
559	NB- 99	1.4300E+01	1.0490	0.9433	0.9960
560	NB- 99M	1.5600E+02	1.0000	1.0014	1.0000

561	NB-100	1.5000E+00	1.0000	1.7652	0.2407
562	NB-100M	2.9900E+00	0.9967	1.0005	1.0010
563	MO- 88	4.8000E+02	1.0000	0.0000	1.0000
564	MO- 89	1.2200E+02	1.0000	1.0000	1.0000
565	MO- 90	2.0410E+04	1.0000	1.0000	1.0000
566	MO- 91	9.2940E+02	1.0000	1.0001	0.9999
567	MO- 91M	6.5200E+01	1.0000	0.9947	0.9994
569	MO- 93	9.5040E+10	1.1621	0.8853	1.0054
570	MO- 93M	2.4660E+04	1.0016	0.9327	1.0002
576	MO- 99	2.3742E+05	0.9998	1.0039	1.0153
578	MO-101	8.7600E+02	1.0000	0.9854	1.0277
579	MO-102	6.7200E+02	1.0089	0.9734	0.9965
580	MO-103	6.7500E+01	1.0000	0.0000	0.0000
581	MO-104	6.0000E+01	1.0000	0.9614	0.9943
582	MO-105	3.6700E+01	0.9700	0.0000	0.0000
583	TC- 92	2.6400E+02	1.0000	1.0000	1.0000
584	TC- 93	9.9000E+03	1.0000	1.0000	1.0000
585	TC- 93M	2.6100E+03	1.0000	1.0000	1.0000
586	TC- 94	1.7580E+04	1.0000	1.0000	1.0000
587	TC- 94M	3.1200E+03	1.0000	1.0000	1.0000
588	TC- 95	7.2000E+04	1.0000	1.0000	1.0000
589	TC- 95M	5.2700E+06	1.0000	1.0000	1.0000
590	TC- 96	3.6979E+05	1.0006	0.9953	0.9987
591	TC- 96M	3.0900E+03	1.0000	266.1469	1.0640
592	TC- 97	8.1994E+13	1.0007	0.0468	0.1105
593	TC- 97M	7.6896E+06	1.0169	1.0383	0.5578
594	TC- 98	1.3245E+14	1.0007	1.0294	0.9870
596	TC- 99M	2.1636E+04	1.0000	1.9339	1.0009
597	TC-100	1.5800E+01	1.0000	1.0000	1.0000
598	TC-101	8.5200E+02	1.0000	1.0001	0.9991
599	TC-102	5.2800E+00	1.0000	0.7301	14.7755
600	TC-102M	2.6100E+02	1.0000	1.0157	1.0001
601	TC-103	5.0000E+01	1.0840	0.8306	2.0972
602	TC-104	1.1040E+03	0.9946	0.8011	1.0022
603	TC-105	4.5600E+02	1.0000	0.9737	1.5911
604	TC-106	3.6000E+01	1.0000	0.8128	1.3936
605	RU- 94	3.1100E+03	1.0000	1.0000	1.0000
606	RU- 95	5.9000E+03	1.0000	1.0000	1.0000

608	RU- 97	2.5056E+05	1.0000	1.0255	0.9863
614	RU-103	3.3921E+06	1.0000	1.0023	0.9946
616	RU-105	1.5980E+04	1.0003	0.9364	1.0370
617	RU-106	3.1812E+07	1.0092	0.9994	
618	RU-107	2.2500E+02	1.0000	1.1389	0.5971
619	RU-108	2.7000E+02	1.0111	1.0709	1.3207
620	RU-109	3.4500E+01	1.0000	0.0000	0.0000
621	RU-109M	1.2900E+01	1.0078	0.9702	0.8917
622	RU-110	1.2600E+01	1.1905	0.0000	0.0000
623	RU-111	2.2000E+00	0.6818	0.0000	0.0000
624	RH- 96	5.9400E+02	1.0000	1.0000	1.0000
625	RH- 96M	9.0600E+01	1.0000	1.0000	1.0000
626	RH- 97	1.8700E+03	1.0000	1.0000	1.0000
627	RH- 97M	2.6600E+03	1.0000	1.0000	1.0000
628	RH- 98	5.2200E+02	1.0000	1.0000	1.0000
629	RH- 98M	2.1000E+02	1.0000	1.0000	1.0000
630	RH- 99	1.3910E+06	1.0000	1.0000	1.0000
631	RH- 99M	1.6900E+04	1.0000	1.0000	1.0078
632	RH-100	7.4900E+04	1.0000	1.0851	0.9964
633	RH-100M	2.7600E+02	1.0217	0.0000	7.3326
634	RH-101	1.0400E+08	1.0000	1.0000	1.0000
635	RH-101M	3.7500E+05	1.0000	1.0000	1.0000
636	RH-102	9.1584E+07	0.9993	0.4401	1.0179
637	RH-102M	1.7971E+07	0.9960	0.9505	1.0098
639	RH-103M	3.3666E+03	1.0002	0.9499	0.9877
640	RH-104	4.2300E+01	1.0000	1.0066	0.7988
641	RH-104M	2.6040E+02	1.0000	0.9431	0.9995
642	RH-105	1.2730E+05	1.0000	0.9969	0.9913
643	RH-105M	4.5000E+01	1.0000	1.0263	0.8385
644	RH-106	2.9800E+01	1.0000	0.9989	0.9873
645	RH-106M	7.8000E+03	1.0000	1.0254	0.9836
646	RH-107	1.3020E+03	1.0000	1.0114	1.0000
647	RH-108	3.5400E+02	0.0475	1.9376	0.1408<<<
648	RH-108M	1.6800E+01	21.4286	0.1109	4.2771<<<
649	RH-109	8.0000E+01	1.0000	1.1347	0.9552
650	RH-110	3.0000E+00	1.0533	0.9779	3.3307
651	RH-110M	2.8500E+01	1.0000	0.8782	1.1795
652	RH-111	1.1000E+01	1.0000	0.0000	0.0000

653	RH-112	3.8000E+00	1.0000	1.5026	0.0709
654	PD- 98	1.0620E+03	1.0000	1.0000	1.0000
655	PD- 99	1.2840E+03	1.0000	1.0000	1.0079
656	PD-100	3.1400E+05	1.0191	0.0000	0.0000
657	PD-101	3.0490E+04	1.0000	1.0000	1.0000
659	PD-103	1.4653E+06	1.0018	0.8508	0.9899
663	PD-107	2.0498E+14	1.0007	1.0000	
664	PD-107M	2.1300E+01	1.0000	0.9983	0.9836
666	PD-109	4.8348E+04	1.0201	1.0025	0.5924
667	PD-109M	2.8140E+02	1.0000	0.8353	1.0941
669	PD-111	1.4040E+03	1.0000	1.0003	1.0008
670	PD-111M	1.9800E+04	1.0000	1.0733	0.9375
671	PD-112	7.5762E+04	1.0000	1.0052	0.9478
672	PD-113	9.3000E+01	1.0000	0.0000	0.0000
674	PD-114	1.4700E+02	1.0000	0.9993	0.9879
675	PD-115	4.1000E+01	1.1463	0.0000	0.6750
676	AG-100	1.2100E+02	1.0413	0.0000	0.0000
677	AG-100	1.3400E+02	1.0299	0.0000	0.0000
678	AG-101	6.6600E+02	1.0000	1.0000	2.2143
679	AG-101	3.1000E+00	1.0000	1.1091	18.2976
680	AG-102	7.7400E+02	1.0000	1.0000	1.7566
681	AG-102M	4.6000E+02	1.0000	1.0000	2.6985
682	AG-103	3.9400E+03	1.0000	1.0056	5.4881
683	AG-103M	5.7000E+00	1.0000	1.0105	108.4881
684	AG-104	4.1500E+03	1.0000	1.0000	2.4945
685	AG-104M	2.0100E+03	1.0000	1.0000	4.3952
686	AG-105	3.5670E+06	1.0000	1.0674	10.0859
687	AG-105M	4.3400E+02	1.0000	1.0000	3941.5254
688	AG-106	1.4376E+03	1.0000	0.9960	7.5779
689	AG-106M	7.3100E+05	1.0000	1.0990	2.8683
691	AG-107M	4.4000E+01	1.0068	0.9545	0.9993
692	AG-108	1.4400E+02	0.9875	1.0074	0.8061
693	AG-108M	1.3191E+10	0.3038	0.9538	0.9957<<<
695	AG-109M	3.9800E+01	0.9950	0.9585	0.9640
696	AG-110	2.4700E+01	0.9960	1.0057	0.8829
697	AG-110M	2.1582E+07	0.9999	1.0707	0.9922
698	AG-111	6.4368E+05	1.0000	1.0105	0.9984
699	AG-111M	6.4800E+01	1.0000	0.9756	1.0080

700	AG-112	1.1304E+04	1.0000	1.1616	1.0007
701	AG-113	1.9332E+04	1.0000	1.0008	0.9994
702	AG-113M	6.8700E+01	1.0000	0.9843	0.9496
703	AG-114	4.6000E+00	1.0000	1.0116	0.3822
705	AG-115	1.2000E+03	1.0000	1.0141	0.9997
706	AG-115M	1.8000E+01	1.0167	0.0016	5.0526
707	AG-116	1.5840E+02	1.0152	1.0555	1.0013
708	AG-116M	1.0500E+01	0.9905	0.9742	1.3758
709	CD-102	3.3000E+02	1.0000	1.0747	2.2039
710	CD-103	4.3800E+02	1.0000	1.0000	1.5000
711	CD-104	3.4600E+03	1.0000	1.1034	8.8528
712	CD-105	3.3300E+03	1.0000	0.9767	2.1349
714	CD-107	2.3400E+04	1.0000	0.0725	0.4163
716	CD-109	3.9969E+07	1.0000	13.7245	1.7100
719	CD-111M	2.9124E+03	1.0012	0.9820	0.9737
721	CD-113	2.9349E+23	1.0000	0.6705	
722	CD-113M	4.3234E+08	1.0292	1.0011	0.9901
724	CD-115	1.9246E+05	1.0000	0.9939	1.0004
725	CD-115M	3.8534E+06	1.0000	0.9987	1.4045
727	CD-117	8.9640E+03	1.0000	0.9981	0.9924
728	CD-117M	1.2096E+04	1.0000	0.9772	0.9978
729	CD-118	3.0180E+03	1.0000	0.9894	
730	CD-119	1.6140E+02	1.0000	1.1602	1.0087
731	CD-119M	1.3200E+02	1.0000	1.1456	1.0167
732	CD-120	5.0800E+01	1.0000	1.0791	0.0000
733	CD-121	1.2500E+01	1.0800	0.0000	0.0000
734	CD-121M	4.8000E+00	1.0000	0.0000	0.0000
735	CD-122	5.7800E+00	0.9066	0.0000	0.0000
736	CD-123	2.2000E+00	0.9500	0.0000	0.0000
737	CD-124	1.0000E+00	0.9000	0.7131	15.1532
738	CD-125	7.0000E-01	0.9714	0.0000	0.0000
739	IN-106	3.7200E+02	1.0000	1.0000	1.0000
740	IN-106M	3.1200E+02	1.0000	1.0000	1.0000
741	IN-107	1.9440E+03	1.0000	1.0000	1.0000
742	IN-107M	5.0400E+01	1.0000	1.0000	1.0000
743	IN-108	3.4800E+03	0.6839	4.2455	0.8545
744	IN-108M	2.3800E+03	1.4622	0.2355	1.1703
745	IN-109	1.5100E+04	1.0000	1.0000	1.0000

746	IN-109M	8.0000E+01	1.0000	1.0000	1.0000
747	IN-109N	2.1000E-01	1.0000		1.0190
748	IN-110	1.7600E+04	0.2358	64.2857	0.5032<<<
749	IN-110M	4.1500E+03	4.2410	0.0156	1.9872<<<
750	IN-111	2.4233E+05	1.0090	1.0002	0.9964
751	IN-111M	4.7400E+02	0.9747	0.9434	1.0008
752	IN-112	8.6400E+02	1.0394	0.9878	8.5761
753	IN-112M	1.2340E+03	1.0000	1.0000	1.0000
755	IN-113M	5.9688E+03	1.0000	0.9899	0.9871
756	IN-114	7.1900E+01	1.0000	1.0049	0.5264
757	IN-114M	4.3200E+06	0.9902	1.0078	1.0563
758	IN-115	1.3917E+22	1.0000	0.7360	
759	IN-115M	1.6150E+04	1.0000	0.9882	0.9994
760	IN-116	1.4200E+01	0.9930	1.0061	3.7227
761	IN-116M	3.2760E+03	0.9918	0.9949	0.9929
762	IN-116N	2.1700E+00	1.0046	0.9648	0.9946
763	IN-117	2.6280E+03	1.0000	1.0083	0.9942
764	IN-117M	6.9900E+03	1.0000	0.9941	1.0010
765	IN-118	5.0000E+00	1.0000	1.0368	0.2247
766	IN-118M	2.6700E+02	1.0000	0.9885	0.9994
767	IN-118N	8.5000E+00	1.0000	0.9404	0.9982
768	IN-119	1.4400E+02	1.0000	0.9830	1.0033
769	IN-119M	1.0800E+03	1.0000	1.0128	1.0221
770	IN-120	3.0800E+00	1.0000	0.9323	0.9987
771	IN-120M	4.4400E+01	1.0405	1.1187	0.9542
772	IN-120N	4.6200E+01	1.0238	0.5915	1.1662
773	IN-121	2.3100E+01	1.0000	1.0065	0.9968
774	IN-121M	2.3280E+02	1.0000	1.0111	0.9254
775	IN-122	1.5000E+00	1.0000	1.0020	1.0000
776	IN-122M	1.0000E+01	1.0300	0.8638	0.8310
777	IN-122N	1.0800E+01	1.0000	0.9823	1.0012
778	IN-123	5.9700E+00	1.0017	1.0082	0.9961
779	IN-123M	4.7800E+01	1.0000	0.9968	1.0077
780	IN-124	3.2000E+00	0.9906	0.9267	0.9989
781	IN-124M	2.4000E+00	1.0000	1.0914	0.9981
782	IN-125	2.3300E+00	1.0000	1.0257	0.9943
783	IN-125M	1.2200E+01	1.0000	0.9928	0.9935
784	IN-126	1.5000E+00	0.9667	0.9326	1.5328

785	IN-126M	1.4500E+00	1.0345	1.2937	0.6518
786	SN-108	6.1800E+02	1.0000	1.0000	1.0000
787	SN-109	1.0800E+03	1.0000	1.0000	1.0000
788	SN-110	1.4800E+04	1.0000	1.0000	0.8906
789	SN-111	2.1180E+03	1.0009	1.0012	0.9974
791	SN-113	9.9438E+06	1.0000	0.8322	0.9805
792	SN-113M	1.2540E+03	1.0239	0.8792	0.9459
797	SN-117M	1.1750E+06	1.0000	0.9859	1.0074
800	SN-119M	2.5315E+07	1.0000	0.9698	1.0061
802	SN-121	9.6840E+04	1.0059	1.0001	
803	SN-121M	1.7357E+09	1.0000	0.9625	0.9812
805	SN-123	1.1163E+07	1.0000	1.0008	0.8630
806	SN-123M	2.4060E+03	0.9995	1.0064	0.9986
808	SN-125	8.3290E+05	1.0000	1.0074	0.9870
809	SN-125M	5.7120E+02	1.0000	1.0123	1.0230
810	SN-126	3.1558E+12	1.0000	0.8881	0.9722
811	SN-127	7.5600E+03	1.0000	1.0795	1.0230
812	SN-127M	2.4780E+02	1.0000	1.1091	0.9993
813	SN-128	3.5460E+03	1.0000	0.9940	1.0059
814	SN-128M	6.5000E+00	1.0000	1.0090	0.9999
815	SN-129	1.4400E+02	0.9000	2.1030	0.2603
816	SN-129M	4.1400E+02	0.9710	1.5856	0.6643
817	SN-130	2.2320E+02	1.0000	0.5720	5.9688
818	SN-130M	1.0200E+02	1.0000	3.6022	0.2997
819	SN-131	3.9000E+01	1.0000	0.0000	0.0000
820	SN-131M	6.1200E+01	1.0000	0.0000	0.0000
821	SB-112	5.1400E+01	1.0000	1.0000	1.0035
822	SB-113	4.0000E+02	1.0000	1.0000	1.0000
823	SB-114	2.0940E+02	1.0000	1.0000	1.0000
824	SB-115	1.9260E+03	1.0000	1.0000	1.0000
825	SB-116	9.5000E+02	1.0000	1.0000	1.0000
826	SB-116M	3.6200E+03	1.0000	1.0000	1.0000
827	SB-117	1.0080E+04	1.0000	1.0000	1.0000
828	SB-118	2.1600E+02	1.0000	1.0000	1.0000
829	SB-118M	1.8000E+04	1.0000	1.0000	1.0000
830	SB-119	1.3720E+05	1.0000	1.0000	1.0000
831	SB-120	9.5340E+02	1.0000	1.0000	1.0000
832	SB-120M	4.9770E+05	1.0000	1.0000	1.0000

834	SB-122	2.3292E+05	1.0015	1.0001	0.9980
835	S8-122M	2.5140E+02	1.0048	0.9672	0.9926
837	SB-124	5.2047E+06	0.9993	1.0216	0.9907
838	SB-124M	9.3000E+01	1.0000	1.0519	1.0125
839	SB-124N	1.2120E+03	1.0000	0.9313	0.7219
840	SB-125	8.7065E+07	0.9895	0.9823	1.0087
841	SB-126	1.0714E+06	1.0000	1.0099	0.9999
842	SB-126M	1.1400E+03	1.0000	1.0049	1.0021
843	SB-126N	1.1000E+01	1.0000	0.9427	0.6847
844	SB-127	3.3264E+05	1.0000	1.0020	1.0002
845	SB-128	3.2436E+04	1.0000	1.1597	0.9993
846	SB-128M	6.2400E+02	1.0000	1.0389	0.9487
847	SB-129	1.5696E+04	1.0092	1.1188	0.9825
849	SB-130	2.4000E+03	0.9875	1.0052	1.0025
850	SB-130M	3.7800E+02	1.0000	0.9826	1.0873
851	SB-131	1.3800E+03	1.0000	0.7012	1.0324
853	SB-132	2.5200E+02	1.0000	0.9643	1.0914
854	SB-132M	1.6800E+02	1.0000	0.9976	1.0292
855	TE-114	9.1000E+02	0.0989	0.0000	0.0000<<<
856	TE-115	3.4800E+02	1.0000	1.0000	1.0000
857	TE-115M	4.0200E+02	1.0000	1.0000	1.0000
858	TE-116	8.9600E+03	1.0000	1.0000	1.0000
859	TE-117	3.7200E+03	1.0000	1.0000	1.0000
860	TE-117M	1.0300E-01	1.0000	1.0000	1.0000
861	TE-118	5.1840E+05	1.0000	1.0000	1.0000
862	TE-119	5.7780E+04	1.0000	1.0000	1.0000
863	TE-119M	4.0500E+05	1.0000	1.0000	1.0000
865	TE-121	1.4500E+06	0.9999	1.0129	1.0000
866	TE-121M	1.3300E+07	1.0004	0.9789	1.0000
868	TE-123	3.1536E+20	1.2408	1.9789	49.3431
869	TE-123M	1.0342E+07	1.0000	0.9737	0.9982
872	TE-125M	5.0112E+06	1.0000	0.9781	0.9889
874	TE-127	3.3660E+04	1.0000	1.0053	1.0042
875	TE-127M	9.4176E+06	1.0000	0.9798	0.9791
877	TE-129	4.1760E+03	1.0000	0.9907	1.0256
878	TE-129M	2.9203E+06	0.9941	1.1242	0.9502
880	TE-131	1.5000E+03	1.0000	1.0062	0.9976
881	TE-131M	1.0800E+05	1.0000	0.9832	0.9950

882	TE-132	2.8152E+05	1.0000	0.9918	1.0021
883	TE-133	7.5000E+02	1.0000	0.9472	1.0000
884	TE-133M	3.3240E+03	1.0000	0.6925	0.8766
885	TE-134	2.5100E+03	0.9992	1.0304	1.0000
886	TE-135	1.9000E+01	1.0000	1.0201	1.0625
887	I -118	8.2000E+02	1.0000	1.0000	1.0000
888	I -118M	5.1000E+02	1.0000	1.0000	1.0000
889	I -119	1.1460E+03	1.0000	1.0000	1.0000
890	I -120	4.8600E+03	1.0000	1.0000	1.0000
891	I -120M	3.1800E+03	1.0000	1.0000	1.0000
892	I -121	7.6300E+03	1.0000	1.0000	1.0000
893	I -122	2.1800E+02	1.0000	1.0000	1.0000
894	I -123	4.7500E+04	1.0000	1.0000	1.0000
895	I -124	3.6120E+05	1.0000	1.0000	1.0000
896	I -125	5.1348E+06	1.0119	0.8689	0.9920
897	I -126	1.1215E+06	1.0031	1.0082	0.9940
899	I -128	1.4994E+03	1.0000	0.9942	1.0291
900	I -129	4.9511E+14	1.0007	0.9853	1.0673
901	I -130	4.4496E+04	1.0000	1.0059	0.9999
902	I -130M	5.4000E+02	1.0000	0.9357	0.9241
903	I -131	6.9466E+05	1.0000	1.0005	1.0012
904	I -132	8.2800E+03	0.9930	0.9894	0.9989
905	I -132M	5.0160E+03	1.0000	0.9404	0.9988
906	I -133	7.4880E+04	1.0000	13942.0547	1.0069
907	I -133M	9.0000E+00	1.0000	1.1063	0.9975
908	I -134	3.1560E+03	1.0000	0.9952	1.0000
909	I -134M	2.2200E+02	0.9973	0.9628	0.9951
910	I -135	2.3796E+04	0.9939	0.9836	0.9994
911	I -136	8.4000E+01	0.9929	1.0128	0.9854
912	I -136M	4.5000E+01	1.0422	1.2136	0.8367
913	XE-120	2.4000E+03	1.0000	1.0000	1.0000
914	XE-121	2.4060E+03	1.0000	1.0000	1.1008
915	XE-122	7.2400E+04	1.0000	1.0000	0.4630
916	XE-123	7.4900E+03	1.0000	1.0000	1.0000
918	XE-125	6.0840E+04	1.0000	0.9388	0.9907
919	XE-125M	5.6000E+01	1.0179	0.9605	0.9986
921	XE-127	3.1484E+06	0.9989	0.9416	0.9976
922	XE-127M	6.9600E+01	0.9943	0.9710	0.9972

925	XE-129M	7.6810E+05	1.0000	0.9659	0.9418
928	XE-131M	1.0282E+06	1.0000	0.9961	1.0172
930	XE-133	4.5317E+05	0.9996	0.9653	1.1833
931	XE-133M	1.8904E+05	1.0009	0.9775	0.9183
933	XE-134M	2.9000E-01	1.0000	0.9820	1.0005
934	XE-135	3.2724E+04	1.0055	1.0046	1.0008
935	XE-135M	9.3900E+02	0.9770	0.9985	0.9913
937	XE-137	2.2910E+02	0.9999	1.1238	0.8128
938	XE-138	8.5020E+02	0.9936	0.9641	1.0003
939	XE-139	3.9680E+01	1.0000	0.9561	0.9674
940	CS-122	2.1000E+01	1.0000	1.0000	1.0771
941	CS-122M	2.7000E+02	1.0000	1.0000	1.0770
943	CS-123	3.5200E+02	1.0000	1.0000	1.0000
944	CS-123M	1.6000E+00	1.0000		0.0000
945	CS-124	3.0800E+01	1.0000	1.0000	1.0000
946	CS-124M	6.3000E+00	1.0000	1.0000	1.0000
947	CS-125	2.7000E+03	1.0000	1.0000	1.0000
948	CS-126	9.8400E+01	1.0000	1.0000	1.0000
949	CS-127	2.2500E+04	1.0000	1.0000	1.0000
950	CS-128	2.1720E+02	1.0000	1.0000	1.0000
951	CS-129	1.1542E+05	1.0000	1.0000	1.0000
952	CS-130	1.7940E+03	0.9769	1.0406	1.0176
953	CS-131	8.3722E+05	1.0000	0.9989	0.9999
954	CS-132	5.5944E+05	0.9999	0.7138	1.0157
956	CS-134	6.5170E+07	0.9985	1.0098	1.0006
957	CS-134M	1.0469E+04	1.0007	0.9366	0.9861
958	CS-135	7.5738E+13	0.9583	0.8420	
959	CS-135M	3.1800E+03	1.0000	0.9481	0.9992
960	CS-136	1.1258E+06	1.0100	0.9423	0.8935
961	CS-136M	1.9000E+01	1.0000	0.1287	0.0089
962	CS-137	9.5213E+08	0.9943	1.0054	0.0000
963	CS-138	1.9320E+03	1.0000	0.9797	1.0000
964	CS-138M	1.7400E+02	0.1092	0.0000	0.1902<<<
965	CS-139	5.5600E+02	1.0004	1.0061	1.1037
966	CS-140	6.3700E+01	1.0000	1.0957	0.9855
967	BA-124	7.1000E+02	1.0000	0.0000	1.0692
968	BA-125	2.1000E+02	1.0000	0.0000	0.0000
969	BA-126	6.0000E+03	1.0000	1.0000	1.1238

970	BA-127	7.6200E+02	1.0000	1.0000	1.0139
971	BA-128	2.1000E+05	1.0000	2.4893	9.4848
972	BA-129	8.0000E+03	0.9765	0.0000	0.0000
975	BA-131	1.0195E+06	1.0005	0.9532	2.1644
976	BA-131M	8.7600E+02	1.0000	1.0000	8.2857
978	BA-133	3.3368E+08	0.9949	0.9787	1.0004
979	BA-133M	1.3752E+05	1.0180	0.9837	9.3709
982	BA-135M	1.0332E+05	1.0000	0.9596	1.0237
984	BA-136M	3.0840E-01	1.0000	0.9615	1.0018
986	BA-137M	1.5318E+02	0.9996	1.0138	1.0006
988	BA-139	4.9840E+03	1.0188	1.0011	0.9457
989	BA-140	1.1007E+06	1.0009	0.9912	0.9956
990	BA-141	1.0962E+03	1.0000	1.1382	0.8450
991	BA-142	6.3600E+02	1.0000	0.7936	1.4158
992	BA-143	1.4500E+01	1.0000	1.1633	1.1264
993	LA-128	3.0000E+02	1.0000	1.0000	1.0000
994	LA-129	6.9600E+02	1.0000	1.0000	1.0000
995	LA-129M	5.6000E-01	1.0000	1.0000	1.0000
996	LA-130	5.2200E+02	1.0000	0.4259	0.6429
997	LA-131	3.5400E+03	1.0000	1.0000	1.0000
998	LA-132	1.7300E+04	1.0000	1.0000	1.0000
999	LA-132M	1.4580E+03	0.9877		0.3839
1000	LA-133	1.4080E+04	1.0000	1.0000	1.0000
1001	LA-134	3.8700E+02	1.0000	1.0000	1.0000
1002	LA-135	7.0200E+04	1.0000	1.0000	1.0000
1003	LA-136	5.9220E+02	1.0000	1.0000	1.0000
1004	LA-136M	1.1400E-01	1.0000	1.0000	1.0000
1005	LA-137	1.8922E+12	1.0006	1.0048	0.8382
1006	LA-138	3.3136E+18	1.0000	0.8226	0.9959
1008	LA-140	1.4497E+05	1.0001	0.9802	0.9926
1009	LA-141	1.4148E+04	0.9975	1.0208	0.5819
1010	LA-142	5.4700E+03	0.9993	1.0023	0.9983
1011	LA-143	8.4800E+02	1.0005	0.9896	2.0462
1012	LA-144	4.0800E+01	1.0025	1.1841	0.9821
1013	CE-130	1.5000E+03	1.0000	1.0000	1.0000
1014	CE-131	6.0000E+02	1.0000	1.4948	1.1238
1015	CE-131M	3.0000E+02	1.0000	0.0000	0.0000
1016	CE-132	1.2636E+04	0.9972	0.0000	0.0000

1017	CE-133	1.7600E+04	1.0000		1.0328	1.0237
1018	CE-133M	5.8200E+03	1.0000		1.0000	1.1538
1019	CE-134	2.7300E+05	1.0000		2.3269	16.1512
1020	CE-135	6.3700E+04	1.0000		1.0057	1.5311
1021	CE-135M	2.0000E+01	1.0000		1.0000	2.7054
1023	CE-137	3.2400E+04	1.0000		1.0000	11.8519
1024	CE-137M	1.2380E+05	1.0000		1.0000	8.9350
1026	CE-139	1.1893E+07	0.9999		2.1662	3.7982
1027	CE-139M	5.6100E+01	0.9768		0.9456	1.6292
1029	CE-141	2.8080E+06	1.0000		0.9968	1.0004
1030	CE-142	1.5768E+24	0.0000	0.0000		<<<
1031	CE-143	1.1880E+05	1.0000		0.9833	1.0234
1032	CE-144	2.4615E+07	1.0000		0.9978	0.9794
1033	CE-145	1.8100E+02	0.9978		0.9971	1.1169
1034	CE-146	8.5200E+02	0.9521		0.9769	1.7722
1035	CE-147	5.5000E+01	1.0255		0.0000	0.1581
1036	CE-148	5.6000E+01	1.0000		1.0667	1.0429
1037	CE-149	5.2000E+00	1.0000		0.0000	0.0000
1038	PR-134	1.0200E+03	1.0000		0.0000	0.0000
1039	PR-134M	6.6000E+02	1.0000		0.0000	0.0000
1040	PR-135	1.4400E+03	1.0000		1.0000	1.0112
1041	PR-136	7.8600E+02	1.0000		1.0000	1.0000
1042	PR-137	4.6100E+03	1.0000		1.0000	1.0000
1043	PR-138	8.7000E+01	1.0000		1.0000	1.0000
1044	PR-138M	7.6000E+03	1.0000		1.0000	1.0000
1045	PR-139	1.5880E+04	1.0000		1.0000	1.0000
1046	PR-140	2.0340E+02	1.0000		1.0000	1.0000
1048	PR-142	6.8868E+04	0.9995		1.0011	0.9926
1049	PR-142M	8.7600E+02	1.0000			0.0000
1050	PR-143	1.1733E+06	0.9993		1.0010	0.0000
1051	PR-144	1.0370E+03	0.9998		1.0007	1.0000
1052	PR-144M	4.3200E+02	1.0000		1.0089	0.9843
1053	PR-145	2.1528E+04	1.0007		0.9959	0.6712
1054	PR-146	1.4490E+03	1.0000		0.9917	1.0089
1055	PR-147	8.1600E+02	1.0000		1.3105	0.4869
1056	PR-148	1.3620E+02	1.0000		1.0082	1.2182
1057	PR-148M	1.2000E+02	1.0000		1.0100	0.9924
1058	PR-149	1.3600E+02	0.9971		0.9991	0.8831

1059	PR-150	6.1000E+00	1.0148		0.0000	0.0000
1060	ND-136	3.0390E+03	1.0000		1.0000	1.0034
1061	ND-137	2.3100E+03	1.0000		1.0000	0.9431
1062	ND-137M	1.6000E+00	1.0000		1.0000	1.0000
1063	ND-138	1.8100E+04	1.0000		1.0000	0.9116
1064	ND-139	1.7800E+03	1.0000		1.0000	1.0000
1065	ND-139M	1.9800E+04	1.0000		1.0000	1.0000
1066	ND-140	2.9120E+05	1.0000		1.0000	1.0000
1067	ND-141	8.9600E+03	1.0000		1.0000	1.0000
1068	ND-141M	6.2400E+01	1.0000		1.0000	1.0000
1071	ND-144	6.6226E+22	0.9966	1.0094		
1074	ND-147	9.4867E+05	1.0000		0.9911	1.0031
1076	ND-149	6.2100E+03	1.0000		1.0137	1.0000
1078	ND-151	7.4600E+02	1.0005		0.9814	1.0011
1079	ND-152	6.8400E+02	1.0000		1.0262	0.9895
1080	ND-153	3.2000E+01	0.9031		0.0000	0.0000
1081	PM-140	9.2000E+00	1.0000		1.0000	1.0000
1082	PM-140M	3.5700E+02	1.0000		1.0000	1.0000
1083	PM-141	1.2540E+03	1.0000		1.0000	1.0000
1084	PM-142	4.0500E+01	1.0000		1.0000	1.0000
1085	PM-143	2.2900E+07	1.0000		1.0000	1.0000
1086	PM-144	3.1400E+07	1.0000		0.9986	1.0000
1087	PM-145	5.5857E+08	1.0000	1.0000	0.9590	1.0245
1088	PM-146	1.7453E+08	0.9999		0.9917	0.9906
1089	PM-147	8.2776E+07	1.0001		0.9989	0.9977
1090	PM-148	4.6400E+05	0.9999		1.0041	1.0000
1091	PM-148M	3.5670E+06	1.0001		1.0867	1.0005
1092	PM-149	1.9109E+05	1.0000		0.9953	29.1452
1093	PM-150	9.6480E+03	1.0000		1.0436	0.9853
1094	PM-151	1.0224E+05	1.0000		0.8633	1.0000
1095	PM-152	2.4600E+02	1.0000		0.9972	0.9991
1096	PM-152M	4.5000E+02	1.0027		0.9997	0.9989
1097	PM-152N	9.0000E+02	1.2000		0.5664	1.4856
1098	PM-153	3.2400E+02	1.0000		0.0000	0.0000
1099	PM-154	1.0200E+02	1.0118		0.9893	1.0600
1100	PM-154M	1.6200E+02	0.9926		1.2344	0.7016
1101	PM-155	4.8000E+01	1.0000		0.0000	0.0000
1102	PM-156	2.6700E+01	1.0000		0.0000	0.0000

1103	SM-142	4.3490E+03	1.0000		1.0000	1.0000
1104	SM-143	5.2980E+02	1.0000		1.0000	1.0000
1105	SM-143M	6.6000E+01	1.0000		1.0000	1.0000
1107	SM-145	2.9376E+07	1.0000		0.9357	1.0320
1108	SM-146	3.1558E+15	1.0300	0.9893		
1109	SM-147	3.3428E+18	1.0007	1.0067		
1110	SM-148	2.2000E+23	1.0000	1.0069		
1111	SM-149	6.3116E+22	0.0000	0.0000		<<<
1113	SM-151	2.8402E+09	1.0000		0.9980	0.9744
1115	SM-153	1.6812E+05	0.9908		1.0043	1.0507
1117	SM-155	1.3260E+03	1.0090		0.9460	0.9858
1118	SM-156	3.3840E+04	1.0000		1.0490	0.9060
1119	SM-157	4.8400E+02	1.0004		0.0000	0.0000
1120	SM-158	3.3100E+02	0.9988		0.0000	1.0273
1121	SM-159	1.1200E+01	1.0089		0.0000	0.0000
1122	EU-143	1.5800E+02	1.0000		1.0000	1.0000
1123	EU-144	1.0200E+01	1.0000		1.0000	1.0000
1124	EU-145	5.1200E+05	1.0000		1.0000	1.0000
1125	EU-146	3.9700E+05	1.0000		1.0000	1.0000
1126	EU-147	2.0700E+06	1.0000	1.0000	1.0000	1.0000
1127	EU-148	4.7100E+06	1.0000	1.0000	0.9788	0.9596
1128	EU-149	8.0400E+06	1.0000		1.0000	1.0000
1129	EU-150	1.0785E+09	1.0475		1.6351	0.9640
1130	EU-150M	4.5432E+04	24872.3359		0.0528	17.3529<<<
1132	EU-152	4.2673E+08	0.9858		0.9768	0.9980
1133	EU-152M	3.3390E+04	1.0049		1.0007	0.9740
1134	EU-152N	5.7600E+03	1.0000		0.8469	0.9946
1136	EU-154	2.7117E+08	0.9999		1.0129	1.0070
1137	EU-154M	2.7840E+03	0.9914		0.9940	0.9817
1138	EU-155	1.5293E+08	0.9657		0.9975	1.0085
1139	EU-156	1.3124E+06	1.0000		1.0709	0.9167
1140	EU-157	5.4650E+04	1.0000		22.1348	0.9110
1141	EU-158	2.7540E+03	1.0000		1.0063	0.9963
1142	EU-159	1.1220E+03	0.9679		0.0226	0.6548
1143	EU-160	5.2800E+01	0.8333		1.0627	0.8815
1144	GD-145	1.3800E+03	1.0000		1.0000	1.0000
1145	GD-145M	8.5000E+01	1.0000		1.0000	1.0000
1146	GD-146	4.1710E+06	1.0000		1.0000	1.0000

1147	GD-147	1.3720E+05	1.0000		1.0000	1.0640
1148	GD-148	2.3500E+09	1.0018	1.0007		
1149	GD-149	8.1000E+05	1.0000		1.0000	1.0000
1150	GD-150	5.6489E+13	1.0000	1.0042		
1151	GD-151	1.0710E+07	1.0000	1.0000	1.0000	1.0000
1152	GD-152	3.4059E+21	0.0000	0.0000		<<<
1153	GD-153	2.0909E+07	0.9983		1.0224	1.0186
1159	GD-159	6.6816E+04	1.0000		0.9946	1.0010
1161	GD-161	2.2000E+02	0.9982		0.9966	0.9873
1162	GD-162	5.4000E+02	0.9333		0.9530	0.9952
1163	GD-163	6.8000E+01	1.0000		0.0000	0.2918
1164	GD-164	3.1800E+01	1.4151		0.0000	0.0000
1165	GD-165	4.2295E+01	1.0000		1.0000	1.0000
1166	TB-146	8.0000E+00	1.0000		1.0000	1.0342
1167	TB-146M	2.3000E+01	1.0000		0.0000	0.0000
1168	TB-147	5.9000E+03	1.0000		1.0000	1.0000
1169	TB-147M	1.1000E+02	1.0000		1.0000	1.0000
1170	TB-148	3.6000E+03	1.0000		1.0000	1.0000
1171	TB-148M	1.3200E+02	1.0000		1.0000	1.0000
1172	TB-149	1.4870E+04	1.0000	1.0000	1.0000	1.0000
1173	TB-149M	2.4960E+02	1.0000	0.0000	0.0000	0.0000
1174	TB-150	1.2500E+04	1.0000	1.0000	1.0000	1.0000
1175	TB-150M	3.4800E+02	1.0000		1.0000	1.0000
1176	TB-151	6.3390E+04	1.0000	1.0000	1.0000	1.0000
1177	TB-151M	2.5000E+01	1.0000		1.0000	1.0000
1178	TB-152	6.3000E+04	1.0000		0.9545	1.0652
1179	TB-152M	2.5800E+02	0.9767		1.0769	1.0253
1180	TB-153	2.0220E+05	1.0000		1.0000	1.0000
1181	TB-154	7.7400E+04	1.0000		1.0000	1.0136
1182	TB-154M	3.2400E+04	2.5216		2.0435	1.5969<<<
1183	TB-154N	8.1700E+04	0.3966		0.4894	0.6359<<<
1184	TB-155	4.6000E+05	1.0000		1.0000	1.0057
1185	TB-156	4.6200E+05	1.0000		1.0000	1.0000
1186	TB-156M	1.9100E+04	1.0000		0.0000	0.0000
1187	TB-156N	8.8000E+04	1.0000		1.0000	1.0000
1188	TB-157	3.1242E+09	1.5151		0.6079	0.9322<<<
1189	TB-158	5.7000E+09	0.8304		1.0990	0.9838
1190	TB-158M	1.0500E+01	1.0000		0.9951	0.9959

1192	TB-160	6.2467E+06	1.0000		1.0109	1.0876
1193	TB-161	5.9702E+05	0.9986		1.0097	1.0950
1194	TB-162	4.5600E+02	1.0211		0.9981	1.0009
1195	TB-163	1.1700E+03	1.0000		0.9851	1.0013
1196	TB-164	1.8000E+02	1.0000		9.8143	0.9970
1197	TB-165	1.2660E+02	1.0000		0.9305	1.6821
1199	DY-148	1.8600E+02	1.0000		1.0000	1.0000
1200	DY-149	2.5400E+02	1.0000		0.0000	1.0000
1201	DY-150	4.3020E+02	1.0000	1.0266	1.0000	1.0000
1202	DY-151	1.0740E+03	1.0000	1.0000	1.0000	1.0156
1203	DY-152	8.5300E+03	1.0047	1.0000	1.0098	1.1481
1204	DY-153	2.3000E+04	1.0000	1.0000	1.0000	1.0000
1205	DY-154	9.0000E+13	1.0519	1.0007		
1206	DY-155	3.6000E+04	1.0000		1.0000	1.0593
1208	DY-157	2.9304E+04	0.9999		0.4290	0.8877
1210	DY-159	1.2476E+07	1.0000		0.7721	0.9954
1216	DY-165	8.4024E+03	1.0000		1.0043	0.9788
1217	DY-165M	7.5480E+01	1.0000		0.9304	1.0279
1218	DY-166	2.9376E+05	1.0000		1.0430	1.0836
1219	DY-167	3.7200E+02	1.0000		1.0000	1.0000
1220	DY-168	5.1000E+02	1.0000		0.0000	0.5881
1224	HO-153	1.2000E+02	1.0000	0.6667	0.0000	0.8911
1225	HO-153M	5.6000E+02	1.0000	0.6665	0.0000	0.8581
1226	HO-154	7.1000E+02	1.0000	1.0000	1.0063	1.0557
1227	HO-154M	1.9500E+02	1.0000	1.0000	0.9875	1.0000
1228	HO-155	2.8800E+03	1.0000		1.0000	1.0175
1229	HO-156	3.3600E+03	1.0000		1.0000	1.0000
1230	HO-157	7.5600E+02	1.0000		1.0000	1.0065
1231	HO-158	6.6000E+02	1.0273		0.0000	0.0000
1232	HO-158M	1.6200E+03	1.0000			1.0000
1233	HO-158N	1.2800E+03	1.2656		0.0000	0.0000
1234	HO-159	1.9830E+03	1.0000		1.0000	1.0000
1235	HO-159M	8.3000E+00	1.0000		1.0000	1.0000
1236	HO-160	1.5360E+03	1.0000			0.0000
1237	HO-160M	1.8070E+04	1.0000			0.0000
1239	HO-161	8.9300E+03	1.0000		0.0960	3.7419
1240	HO-161M	6.7300E+00	1.0045			1.0000
1241	HO-162	9.0000E+02	1.0000		1.0000	1.0000

1242	HO-162M	4.0200E+03	1.0000	1.0000	1.0000
1243	HO-163	1.4420E+11	1.0000	0.0000	0.0000
1244	HO-163M	1.0900E+00	1.0000	1.0000	1.0000
1245	HO-164	1.7400E+03	1.0000	1.0000	1.1093
1246	HO-164M	2.2500E+03	1.0000	1.0000	1.0000
1248	HO-166	9.6480E+04	1.0000	1.0028	1.0134
1249	HO-166M	3.7869E+10	1.0000	1.4234	0.9421
1250	HO-167	1.1160E+04	1.0036	0.9065	1.0020
1251	HO-168	1.8000E+02	0.9944	1.0057	1.0394
1252	HO-169	2.6400E+02	1.0682	0.5522	1.3867
1253	HO-170	1.6800E+02	1.0000	1.9246	0.6058
1254	HO-170M	4.3000E+01	1.0000	0.0000	0.0000
1257	ER-156	1.1700E+03	1.0000	1.0000	0.9162
1258	ER-157	1.1190E+03	1.0000	1.0000	1.0064
1259	ER-158	8.1000E+03	1.0000	1.0000	1.1111
1260	ER-159	2.1600E+03	1.0000	1.0000	1.0000
1261	ER-160	1.0290E+05	1.0000	0.0000	1.0000
1262	ER-161	1.1560E+04	1.0000	0.0691	1.1250
1264	ER-163	4.5000E+03	1.0000	1.0000	1.0000
1266	ER-165	3.7300E+04	1.0000	1.0000	1.0000
1269	ER-167M	2.2800E+00	1.0000	1.1839	0.8201
1271	ER-169	8.0352E+05	1.0108	0.9917	0.7866
1273	ER-171	2.7070E+04	1.0000	1.0000	1.0000
1274	ER-172	1.7750E+05	1.0000	1.0000	1.0000
1275	ER-173	8.4000E+01	1.0000	1.0000	1.0000
1278	TM-160	5.6400E+02	1.0000	0.0000	0.0000
1279	TM-160M	7.4500E+01	1.0000	1.0000	1.0000
1280	TM-161	2.2800E+03	0.8684	0.0802	1.2122
1281	TM-162	1.3020E+03	1.0000	1.0000	1.0000
1282	TM-162M	2.4300E+01	1.0000	1.0000	1.0000
1283	TM-163	6.5160E+03	1.0000	1.0016	1.0008
1284	TM-164	1.2000E+02	1.0000	1.0000	1.0000
1285	TM-164M	3.0600E+02	1.0000	1.0000	1.0000
1286	TM-165	1.0822E+05	1.0000	1.0111	1.0128
1287	TM-166	2.7720E+04	1.0000	1.0000	1.0103
1288	TM-167	7.9830E+05	1.0011	1.0163	1.0068
1289	TM-168	8.0440E+06	1.0000	1.0000	1.0000
1291	TM-170	1.1111E+07	0.9999	1.0004	0.9961

1292	TM-171	6.0600E+07	1.0000	1.0000	1.0000
1293	TM-172	2.2900E+05	1.0000	1.0000	1.0000
1294	TM-173	2.9700E+04	1.0000	1.0000	1.0000
1295	TM-174	3.2400E+02	1.0000	1.0000	1.0000
1296	TM-175	9.1000E+02	1.0000	1.0000	1.0000
1297	TM-176	1.1400E+02	1.0000	1.0000	1.1313
1298	YB-162	1.1320E+03	1.0000	0.9955	1.0585
1299	YB-163	6.6300E+02	1.0000	1.0000	1.0000
1300	YB-164	4.5500E+03	1.0000	1.0417	1.1457
1301	YB-165	5.9400E+02	1.0000	1.0000	1.0536
1302	YB-166	2.0410E+05	1.0000	1.0000	1.0000
1303	YB-167	1.0500E+03	1.0000	1.7116	0.9745
1305	YB-169	2.7657E+06	1.0004	1.0446	0.9543
1306	YB-169M	4.6000E+01	1.0000	0.7273	14399.2441
1312	YB-175	3.6200E+05	1.0000	1.0000	1.0000
1314	YB-176M	1.1400E+01	1.0000	1.0000	1.0000
1315	YB-177	6.8000E+03	1.0000	1.0000	1.0000
1316	YB-177M	6.4100E+00	1.0000	1.0000	1.0000
1317	YB-178	4.4400E+03	1.0000	0.0000	1.0000
1318	YB-179	4.9000E+02	1.0000	0.0000	1.0000
1319	YB-180	1.4400E+02	0.8333	0.0000	0.0000
1320	LU-166	1.5900E+02	1.0000	1.0030	1.0037
1321	LU-166M	8.5000E+01	1.0000	1.0000	1.0000
1322	LU-166N	1.2700E+02	1.0000	1.0000	1.0000
1323	LU-167	3.0900E+03	1.0000	0.1182	1.5909
1324	LU-168	3.3000E+02	1.0000	1.0000	1.0977
1325	LU-168M	4.0200E+02	1.0000	1.0000	1.0176
1326	LU-169	1.2262E+05	1.0000	1.0000	1.0815
1327	LU-169M	1.6000E+02	1.0000	1.0000	1.0000
1328	LU-170	1.7300E+05	1.0000	1.0000	1.0000
1329	LU-170M	6.7000E-01	1.0000	1.0000	1.0000
1330	LU-171	7.1200E+05	1.0000	1.0000	1.0000
1331	LU-171M	7.9000E+01	1.0000	1.0000	1.0000
1332	LU-172	5.7900E+05	1.0000	1.0000	1.0000
1333	LU-172M	2.2000E+02	1.0000	1.0000	1.0000
1334	LU-173	4.3200E+07	1.0000	1.0000	1.0000
1335	LU-174	1.0450E+08	1.0000	1.0000	1.0000
1336	LU-174M	1.2270E+07	1.0000	1.0000	1.0000

1338	LU-176	1.1400E+18	0.9965		1.0034	1.0020
1339	LU-176M	1.3250E+04	1.0000		1.0000	1.0000
1340	LU-177	5.7970E+05	1.0000		1.0000	1.0000
1341	LU-177M	1.3900E+07	1.0000		1.0000	1.0000
1342	LU-178	1.7040E+03	1.0000		1.0000	1.0000
1343	LU-178M	1.3860E+03	1.0000		1.0000	1.0000
1344	LU-179	1.6520E+04	1.0000		1.0000	1.0000
1345	LU-180	3.4200E+02	1.0000		1.0000	1.0000
1346	LU-181	2.1000E+02	1.0000		1.0000	1.0000
1347	LU-182	1.2000E+02	1.0000		0.9937	1.0000
1348	HF-168	1.5570E+03	1.0000			1.0000
1349	HF-169	1.9440E+02	1.0000		1.0000	1.0000
1350	HF-170	5.7600E+04	1.0000		1.0015	1.1424
1351	HF-171	4.3600E+04	1.0073		0.0000	0.0000
1352	HF-172	5.9000E+07	1.0000		1.0000	1.0000
1353	HF-173	8.6400E+04	0.9838		0.2110	1.1447
1354	HF-174	6.3115E+22	0.9982	0.0000		
1355	HF-175	6.0480E+06	1.0003		0.9097	1.0190
1358	HF-177M	1.0800E+00	1.0000		1.0000	1.0000
1359	HF-177N	3.0800E+03	1.0000		1.0000	1.0000
1361	HF-178M	4.0000E+00	1.0000			0.8715
1362	HF-178N	9.7762E+08	1.0007		0.5890	1.3964
1364	HF-179M	1.8670E+01	1.0000		1.0000	1.0000
1365	HF-179N	2.1700E+06	1.0000		1.0000	1.0000
1367	HF-180M	1.9800E+04	1.0000		0.1165	10.6930
1368	HF-181	3.6616E+06	1.0001		0.9590	0.9783
1369	HF-182	2.8382E+14	1.0007		0.8777	1.1309
1370	HF-182M	3.6900E+03	1.0000		1.1223	0.9281
1371	HF-183	3.8400E+03	1.0000		1.0000	1.0000
1372	HF-184	1.4830E+04	1.0000		1.0222	0.9480
1376	TA-170	4.0600E+02	1.0000		1.0000	1.0000
1377	TA-171	1.3980E+03	1.0014		0.0000	0.0000
1378	TA-172	2.2080E+03	1.0000		1.0000	1.0000
1379	TA-173	1.1300E+04	1.0000		0.9600	0.9888
1380	TA-174	4.2500E+03	1.0000		1.0000	1.0000
1381	TA-175	3.7800E+04	1.0000		0.9895	1.1011
1382	TA-176	2.9100E+04	1.0000		1.0000	1.0000
1383	TA-177	2.0380E+05	1.0000		1.0000	1.0000

1384	TA-178	5.5860E+02	1.0000	1.0000	1.0000
1385	TA-178M	8.5000E+03	1.0000	1.0026	1.0000
1386	TA-179	5.0803E+07	1.1308	0.6112	0.9745
1387	TA-180	2.9088E+04	0.0000	0.0000	0.0000
1388	TA-180M	5.6804E+22	5.16639E-19	0.4132	0.0848<<<
1390	TA-182	9.9101E+06	1.0026	0.9536	1.0146<<<
1391	TA-182M	2.8300E-01	1.0000	0.6565	0.8814
1392	TA-182N	9.5040E+02	0.9996	1.0189	1.0525
1393	TA-183	4.4064E+05	1.0008	1.0776	0.8980
1394	TA-184	3.1320E+04	0.9994	1.0916	0.9557
1395	TA-185	2.9400E+03	1.0000	0.9665	0.8871
1396	TA-186	6.3000E+02	1.0000	1.0000	1.0000
1399	W -172	4.0000E+02	1.2000	0.0000	0.0000
1400	W -173	4.7800E+02	1.0000		1.0000
1401	W -174	1.7600E+03	1.0000	0.0000	4.5883
1402	W -175	2.0400E+03	1.0294	0.0000	0.0000
1403	W -176	8.3000E+03	1.0000	1.0000	1.1392
1404	W -177	8.1000E+03	1.0000	1.0000	1.0000
1405	W -178	1.8700E+06	1.0000	1.0000	0.8900
1406	W -179	2.2500E+03	1.0000	1.0000	0.9944
1407	W -179M	3.8400E+02	1.0000	1.0000	1.0048
1409	W -181	1.0453E+07	1.0018	0.5283	0.9950
1412	W -183M	5.2000E+00	1.0000	0.9940	1.0000
1414	W -185	6.4886E+06	1.0000	1.0008	0.9968
1415	W -185M	1.0000E+02	1.0020	0.9303	0.8742
1417	W -187	8.5860E+04	1.0021	0.9825	0.9636
1418	W -188	6.0000E+06	1.0000	1.0000	1.0000
1419	W -189	6.9000E+02	0.0000	0.0000	0.0000<<<
1420	W -190	1.8000E+03	1.0000	1.0000	1.0000
1424	RE-178	7.9200E+02	1.0000	1.0000	1.0060
1425	RE-179	1.1700E+03	1.0000	0.9964	1.0000
1426	RE-180	1.4600E+02	1.0000	1.0075	1.0000
1427	RE-181	7.2000E+04	1.0000	1.0078	1.0123
1428	RE-182	2.3040E+05	0.1984	0.4316	0.6722<<<
1429	RE-182M	4.5700E+04	5.0416	2.3049	1.4793<<<
1430	RE-183	6.0500E+06	1.0000	0.9979	0.9930
1431	RE-184	3.2800E+06	1.0000	1.0204	0.9989
1432	RE-184M	1.4300E+07	1.0210	0.7609	0.9023

1434	RE-186	3.2630E+05	1.0000		1.0112	1.0743
1435	RE-186M	6.3000E+12	1.0018		1.7713	0.3602
1436	RE-187	1.5768E+18	1.0007		0.9848	
1437	RE-188	6.1130E+04	1.0000		0.9987	0.9861
1438	RE-188M	1.1160E+03	1.0000		1.0488	1.0135
1439	RE-189	8.7480E+04	1.0000		1.0000	1.0000
1440	RE-190	1.8600E+02	1.0000		1.0000	1.0000
1441	RE-190M	1.1500E+04	1.0000		1.0000	1.0000
1442	RE-191	5.8800E+02	0.9898		0.0000	0.0000
1443	RE-192	1.6000E+01	1.0000		0.0000	0.0000
1447	OS-180	1.2900E+03	1.0000		1.0000	1.0000
1448	OS-181	1.6200E+02	38.8889		1.1806	3.6898<<<
1449	OS-181M	6.3000E+03	0.0257		0.8571	0.2710<<<
1450	OS-182	7.9600E+04	1.0000		0.9979	0.9361
1451	OS-183	4.6800E+04	1.0000		0.9986	0.9984
1452	OS-183M	3.5600E+04	1.0000		0.4111	1.0030
1454	OS-185	8.0900E+06	1.0000		1.0000	1.0000
1455	OS-186	6.0000E+22	1.0000	1.0000		
1459	OS-189M	1.7300E+04	1.2069		0.0771	13.6318
1461	OS-190M	5.9400E+02	1.0000		14.8411	0.0716
1463	OS-191M	4.7160E+04	1.0000		1.0000	1.0000
1465	OS-192M	5.9000E+00	1.0000		11.7391	0.0899
1466	OS-193	1.0980E+05	1.0000		1.0000	1.0000
1467	OS-194	1.8900E+08	1.0018		0.9990	0.8261
1468	OS-195	3.9000E+02	1.0000		0.0000	0.0000
1469	OS-196	2.0940E+03	1.0000		0.0000	0.0000
1473	IR-182	9.0000E+02	1.0000		1.0000	1.0000
1474	IR-183	3.3000E+03	1.0000		1.0000	0.9382
1475	IR-184	1.0870E+04	1.0230		0.4229	1.0102
1476	IR-185	5.0000E+04	1.0000		0.1092	0.9360
1477	IR-186	5.9900E+04	1.0000		0.9922	1.0123
1478	IR-186M	7.2000E+03	1.0000		1.0000	1.0000
1479	IR-187	3.7800E+04	1.0000		14.5001	111.6011
1480	IR-188	1.4940E+05	1.0000		1.0024	1.0000
1481	IR-189	1.1400E+06	1.0000		0.7973	0.3030
1482	IR-190	1.0180E+06	1.0000		1.0000	1.0000
1483	IR-190M	4.3200E+03	1.0000		1.0057	1.0047
1484	IR-190N	1.1500E+04	1.0000		1.0000	1.0000

1486	IR-191M	4.9400E+00	1.0000		1.0000	1.0000
1488	IR-192	6.3790E+06	1.0000		1.0000	1.0000
1489	IR-192M	8.6400E+01	8.79630E+07		2.5481	17.9827<<<
1490	IR-192N	7.6002E+09	1.14471E-08			0.0140<<<
1492	IR-193M	9.1600E+05	1.0000		1.0000	1.0000
1493	IR-194	6.8940E+04	1.0000		1.0012	0.9890
1494	IR-194M	1.4800E+07	1.0000		1.0000	1.0000
1495	IR-195	9.0000E+03	1.0000		1.0000	1.0000
1496	IR-195M	1.3700E+04	1.0000		1.0029	1.0024
1497	IR-196	5.2000E+01	1.0000		1.0000	1.0000
1498	IR-196M	5.0400E+03	1.0000		0.0000	0.0000
1499	IR-197	3.4800E+02	1.0000		0.0000	0.0000
1500	IR-197M	5.3400E+02	1.0000		0.0000	0.0000
1501	IR-198	8.0000E+00	1.0000		0.0000	0.0000
1504	PT-184	1.0380E+03	1.0000	1.0000		0.3966
1505	PT-185	4.2600E+03	0.9977		0.0000	0.0000
1506	PT-185M	1.9800E+03	1.0000		1.0000	1.0000
1507	PT-186	7.2000E+03	1.0000	1.0000	0.9892	0.9985
1508	PT-187	8.4600E+03	1.0000		0.0000	5.2966
1509	PT-188	8.8000E+05	1.0000	0.0000	1.0000	1.0573
1510	PT-189	3.9200E+04	1.0000		1.0000	1.0000
1511	PT-190	2.0800E+19	0.9103	1.0134		
1512	PT-191	2.5100E+05	1.0000		0.9953	0.9890
1514	PT-193	1.6000E+09	0.9862		0.1633	0.1248
1515	PT-193M	3.7400E+05	1.0000		1.0000	1.0000
1518	PT-195M	3.4730E+05	1.0000		1.0000	1.0000
1520	PT-197	6.5900E+04	1.0000		1.0000	1.0000
1521	PT-197M	5.6600E+03	1.0000		1.0000	1.0000
1523	PT-199	1.8480E+03	1.0000		1.0000	1.0000
1524	PT-199M	1.3600E+01	1.0000		1.0000	1.0000
1525	PT-200	4.5000E+04	1.0000		1.0000	1.0550
1526	PT-201	1.5000E+02	1.0000		0.0000	0.0000
1528	AU-187	5.0400E+02	0.9524	0.0000	0.0068	14.3459
1530	AU-188	5.3000E+02	1.0000		0.0000	0.0000
1531	AU-189	1.7220E+03	1.0000		1.0125	1.6548
1532	AU-189M	2.7540E+02	0.9985		0.0000	0.0000
1533	AU-190	2.5700E+03	1.0000		1.0000	1.2965
1534	AU-191	1.1400E+04	1.0000		1.0000	2.0085

1535	AU-191M	9.2000E-01	1.0000	1.0000	4.0895
1536	AU-192	1.7800E+04	1.0000	1.0000	1.3053
1538	AU-193	6.3500E+04	1.0000	1.0185	5.9353
1539	AU-193M	3.9000E+00	1.0000	0.0002	3.9149
1540	AU-194	1.3690E+05	1.0387	1.0282	1.0493
1541	AU-194M	6.0000E-01	1.0000		206.5625
1542	AU-194N	4.2000E-01	1.0000		6.4380
1543	AU-195	1.6078E+07	1.0000	1.0048	1.0150
1544	AU-195M	3.0500E+01	1.0000	1.0000	4.2694
1545	AU-196	5.3420E+05	1.0000	1.0092	1.0000
1546	AU-196M	8.1000E+00	1.0000	1.0091	227.9310
1547	AU-196N	3.4900E+04	1.0000	1.0000	3.7375
1549	AU-197M	7.8000E+00	1.0000	1.0000	3.9192
1550	AU-198	2.3279E+05	1.0006	0.9990	0.9993
1551	AU-198M	1.9872E+05	1.0014	1.0417	2.2489
1552	AU-199	2.7121E+05	1.0000	1.1617	6.8931
1553	AU-200	2.9040E+03	1.0000	1.0000	1.0000
1554	AU-200M	6.7300E+04	1.0000	1.0000	1.0000
1555	AU-201	1.5600E+03	1.0000	1.0000	20.3529
1556	AU-202	2.8800E+01	1.0000	1.0000	5.4503
1557	AU-203	5.3000E+01	1.0000	0.0030	10.5362
1558	AU-204	3.9800E+01	1.0000	1.0000	1.3982
1559	HG-190	1.2000E+03	1.0000	1.0288	1.3586
1560	HG-191	2.9000E+03	1.0345	0.0000	0.0000
1561	HG-191M	3.0500E+03	1.0000	1.0099	1.0069
1562	HG-192	1.7500E+04	1.0000	1.0000	1.1034
1563	HG-193	1.3700E+04	0.9985	0.0000	0.0000
1564	HG-193M	4.2500E+04	1.0000	1.0000	1.0826
1565	HG-194	1.6400E+10	1.0006	0.9502	1.1227
1566	HG-195	3.5600E+04	1.0000	1.0000	1.0000
1567	HG-195M	1.5000E+05	1.0000	1.0000	1.0000
1569	HG-197	2.3040E+05	1.0017	0.8846	0.9607
1570	HG-197M	8.6040E+04	0.9960	0.9671	1.0028
1573	HG-199M	2.5560E+03	1.0000	1.1895	0.7651
1577	HG-203	4.0258E+06	1.0004	0.9928	1.0003
1579	HG-205	3.1200E+02	1.0000	1.0097	0.9468
1580	HG-206	4.8900E+02	1.0000	1.0065	0.9943
1581	HG-207	1.7400E+02	1.0000	0.0000	1.0000

1584	TL-193	1.3000E+03	1.0154	0.0000	0.0000
1585	TL-193M	1.2700E+02	0.9969		0.0000
1586	TL-194	1.9800E+03	1.0354	0.0000	0.0000
1587	TL-194M	1.9680E+03	1.0000	1.0000	1.0000
1588	TL-195	4.1800E+03	1.0000	1.0000	1.0210
1589	TL-195M	3.6000E+00	1.0000	1.0000	1.0000
1590	TL-196	6.6200E+03	1.0000	1.0000	1.0000
1591	TL-196M	5.0800E+03	1.0000	1.0144	1.0000
1592	TL-197	1.0220E+04	1.0000	1.0000	1.1085
1593	TL-197M	5.4000E-01	1.0000	1.0000	1.0000
1594	TL-198	1.9100E+04	1.0000	1.0000	1.0000
1595	TL-198M	6.7300E+03	1.0000	1.0000	1.0000
1596	TL-199	2.6700E+04	1.0000	1.0000	1.0000
1597	TL-200	9.4000E+04	1.0000	1.0028	1.0008
1598	TL-201	2.6248E+05	1.0000	1.0000	1.0000
1599	TL-202	1.0567E+06	1.0000	1.2116	0.9496
1601	TL-204	1.1960E+08	0.9973	1.0072	1.3324
1603	TL-206	2.5200E+02	1.0000	0.9978	0.0312
1604	TL-206M	2.2560E+02	0.9973	0.0000	1.0617
1605	TL-207	2.8620E+02	1.0000	1.0074	0.6584
1606	TL-207M	1.3300E+00	0.9774	0.0000	1.1578
1607	TL-208	1.8330E+02	0.9993	0.9864	0.9926
1608	TL-209	1.3200E+02	1.0000	1.0074	0.9994
1609	TL-210	7.8000E+01	1.0000	1.7271	0.9817
1610	PB-195	9.0000E+02	1.0000	1.0000	1.0000
1612	PB-196	2.2200E+03	1.0000	0.0000	0.0000
1613	PB-197	6.0000E+02	1.0000	1.0000	1.0000
1614	PB-197M	2.6800E+03	1.0000	1.0000	1.0000
1615	PB-198	8.6000E+03	1.0000	1.0000	1.0000
1616	PB-199	5.4000E+03	1.0000	1.0000	0.9233
1617	PB-199M	7.3200E+02	1.0000	1.0000	0.9306
1618	PB-200	7.7400E+04	1.0000	1.0000	1.0000
1619	PB-201	3.3590E+04	1.0000	1.0000	1.0000
1620	PB-201M	6.1200E+01	1.0000	1.3916	0.7186
1621	PB-202	1.6600E+12	0.9980	0.9768	1.0960
1622	PB-202M	1.2710E+04	1.0000	1.0000	1.0000
1623	PB-203	1.8738E+05	0.9966	1.1714	0.9229
1624	PB-203M	6.3000E+00	1.0000	0.9480	0.9909

1625	PB-203N	4.8000E-01	1.0000		1.4947	0.9601
1627	PB-204M	4.0500E+03	0.9956		0.9296	1.0141
1628	PB-205	4.7968E+14	1.0000		0.3279	0.0542
1631	PB-207M	8.0500E-01	1.0000			1.0006
1633	PB-209	1.1711E+04	1.0000		1.0008	
1634	PB-210	7.0373E+08	1.0000	0.9993	0.8660	0.9994
1635	PB-211	2.1660E+03	1.0000		1.0094	0.9875
1636	PB-212	3.8304E+04	1.0000		0.9966	1.0030
1637	PB-213	6.1200E+02	0.9967		0.0000	0.0000
1638	PB-214	1.6080E+03	1.0000		0.9919	1.0145
1639	BI-200	2.1800E+03	1.0000		1.0000	1.0042
1640	BI-200M	1.8600E+03	1.0000		0.9994	1.0000
1641	BI-201	6.4800E+03	1.0000		1.0000	1.0054
1642	BI-201M	3.5500E+03	1.0000	1.0000		
1643	BI-202	6.0100E+03	1.0000		1.0000	1.0000
1644	BI-203	4.2340E+04	1.0000	0.0000	1.0000	1.0000
1645	BI-203M	3.0300E-01	1.0000			1.0000
1646	BI-204	4.0400E+04	1.0000		1.0000	1.0000
1647	BI-205	1.3230E+06	1.0000		1.0000	1.0000
1648	BI-206	5.3940E+05	1.0000		1.0000	1.0000
1649	BI-207	1.0022E+09	1.0139		0.9590	0.9964
1650	BI-207M	1.8200E-04	1.0000		1.0000	1.0000
1651	BI-208	1.1605E+13	1.0007		0.0052	2.7568
1652	BI-208M	2.5800E-03	1.0000		1.0000	1.0000
1654	BI-210	4.3312E+05	1.0000	1.0196	1.0032	0.0005
1655	BI-210M	9.4673E+13	1.0000	0.9982	1.0012	1.0034
1656	BI-211	1.3020E+02	0.9862	1.0002	0.9641	0.9836
1657	BI-212	3.6330E+03	1.0000	0.9994	1.0062	0.9699
1658	BI-212M	1.5000E+03	0.3600	0.0000	0.0000	0.0000<<<
1659	BI-212N	5.4000E+02	2.7778		0.0000	0.0000<<<
1660	BI-213	2.7354E+03	1.0000	0.9759	1.0397	0.9776
1661	BI-214	1.1940E+03	1.0000	1.2501	1.0405	0.9792
1662	BI-215	4.4400E+02	1.0000		1.1097	0.0000
1663	P0-202	2.6800E+03	1.0000	1.0000	1.0000	1.0000
1664	P0-203	2.2000E+03	1.0000	0.9998	1.0000	1.0000
1665	P0-203M	7.2000E+01	1.0000		1.0000	0.2181
1666	P0-204	1.2710E+04	1.0000	1.0000	1.0000	1.0000
1667	P0-205	5.9800E+03	1.0000	1.0000	1.0000	1.0000

1668	PO-206	7.6000E+05	1.0000	1.0000	1.0000	1.0000
1669	PO-207	2.0880E+04	1.0000	1.0000	1.0024	1.0000
1670	PO-207M	2.7900E+00	1.0000		1.0000	1.0000
1671	PO-208	9.1450E+07	1.0000	1.0000	1.0000	1.0000
1672	PO-209	3.2189E+09	1.0000	0.9994	0.7833	0.6214
1673	PO-210	1.1958E+07	0.9998	1.0000	0.9694	0.9614
1674	PO-211	5.1600E-01	1.0000	1.0001	1.0616	0.9939
1675	PO-211M	2.5500E+01	0.9882	0.9934	0.0000	0.8850
1676	PO-212	3.0000E-07	0.9933	1.0000		
1677	PO-212M	1.4200E-08	3.17606E+09	8.9419	0.0000	0.0705<<<
1679	PO-213	4.2000E-06	1.0000	1.0000	0.0000	0.0000
1680	PO-214	1.6500E-04	0.9958	1.0000	1.0141	0.9954
1681	PO-215	1.7800E-03	1.0000	1.0000	0.0165	0.8138
1682	PO-216	1.4500E-01	1.0000	1.0000		1.0353
1683	PO-217	1.0000E+01	1.0000	1.0002		
1684	PO-218	1.8300E+02	1.0164	1.0000	1.1294	0.0000
1686	AT-205	1.5700E+03	1.0000	1.0000	1.0000	1.7130
1687	AT-206	1.7600E+03	1.0000	1.0000	1.0047	1.3482
1688	AT-207	6.4800E+03	1.0000	1.0000	1.0180	1.5176
1689	AT-208	5.8700E+03	1.0000	1.0000	1.0049	1.3432
1690	AT-209	1.9480E+04	1.0000	1.0000	1.0000	1.4711
1691	AT-210	2.9200E+04	1.0000	0.0100	0.9957	1.3603
1692	AT-211	2.5970E+04	1.0000	1.0000	1.0000	28.4655
1693	AT-212	3.1500E-01	0.9968	0.9998		
1694	AT-212M	1.1900E-01	1.0000	0.9991	0.9571	122.3349
1695	AT-213	1.1000E-07	1.0000	1.0050		
1696	AT-214	5.5800E-07	1.0000	1.0000		
1697	AT-215	1.0000E-04	1.0000	1.0000	0.9689	1.0253
1698	AT-216	3.0000E-04	1.0000	1.0015		
1699	AT-217	3.2300E-02	1.0000	1.0000	0.3378	0.0000
1700	AT-218	1.6000E+00	1.0000	1.0000	0.0000	0.0000
1701	AT-219	5.4000E+01	1.0000	1.0008	1.0078	0.0000
1705	RN-208	1.4610E+03	1.0000	1.0000	1.0000	1.0000
1706	RN-209	1.7100E+03	1.0000	1.0000	1.0000	1.0000
1707	RN-210	8.6000E+03	1.0000	1.0000	0.9756	0.9672
1708	RN-211	5.2600E+04	1.0000	1.0000	1.0000	1.0000
1709	RN-212	1.4400E+03	1.0000	1.0000		
1710	RN-213	2.5000E-02	1.0000	0.9991		

1711	RN-214	2.7000E-07	1.0000	1.0001		
1712	RN-215	2.3000E-06	1.0000	1.0002		
1713	RN-216	4.5000E-05	1.0000	0.9999		
1714	RN-217	5.4000E-04	1.0000	1.0004	0.0000	0.0000
1715	RN-218	3.5000E-02	1.0000	1.0000	1.0047	0.9879
1716	RN-219	3.9600E+00	1.0000	1.0077	0.9291	1.0129
1717	RN-220	5.5600E+01	1.0000	1.0000		0.8806
1718	RN-221	1.5000E+03	1.0000	0.0000	2.0841	0.9178
1719	RN-222	3.3048E+05	0.9996	0.9999	1.1096	1.0859
1720	RN-223	2.5800E+03	0.5349		0.0000	0.0000<<<
1721	RN-224	6.4200E+03	1.0000		0.0000	0.6242
1722	RN-225	2.7000E+02	1.0000		0.0000	0.0000
1723	FR-218	1.0000E-03	1.0000	1.0000		
1724	FR-219	2.1000E-02	1.0000	0.9997		
1725	FR-220	2.7400E+01	1.0000	0.9769		98.9077
1726	FR-221	2.9400E+02	1.0000	1.0024	0.9771	0.9926
1727	FR-222	8.6400E+02	0.9861		1.0299	0.3272
1728	FR-223	1.3080E+03	1.0000	1.0115	0.9364	0.9731
1729	FR-224	1.9800E+02	1.0000		1.0000	1.1363
1730	FR-225	2.3400E+02	1.0000		0.0000	0.0000
1731	FR-226	4.8000E+01	1.0000		1.0085	1.1626
1732	FR-227	1.4400E+02	1.0347		0.0000	0.0000
1733	FR-228	3.9000E+01	1.0000		1.0000	1.0840
1734	RA-220	2.3000E-02	1.0870	1.0002		0.9892
1735	RA-221	2.8000E+01	1.0000	0.9997		1.0018
1736	RA-222	3.8000E+01	1.0000	0.9994	1.1860	0.9853
1737	RA-223	9.8755E+05	1.0003	1.0027	0.9045	1.0008
1738	RA-224	3.1277E+05	1.0110	1.0002	0.9862	1.0012
1739	RA-225	1.2787E+06	1.0000		1.0018	1.0414
1740	RA-226	5.0492E+10	1.0000	1.0000	1.0346	1.0677
1741	RA-227	2.5320E+03	0.9992		0.9750	0.9468
1742	RA-228	1.8146E+08	1.0000		0.4160	0.2185
1743	RA-229	2.4000E+02	1.0000		1.0449	0.0000
1744	RA-230	5.5800E+03	0.9677		0.0000	0.0000
1745	RA-231	1.0300E+02	0.9903		0.0000	0.0000
1746	AC-222	4.2000E+00	1.1905	0.9797		
1747	AC-222M	6.6000E+01	0.9545	0.9997		
1748	AC-223	1.3200E+02	1.0000	0.9897		0.9880

1749	AC-224	1.0440E-04	0.9962	0.9048	0.0000	0.5696
1750	AC-225	8.6400E+05	1.0000	0.9975	0.7315	0.9796
1751	AC-226	1.0440E+05	1.0000	0.0000	0.8829	0.6203
1752	AC-227	6.8710E+08	0.9998	0.9894	0.8642	0.3432
1753	AC-228	2.2140E+04	1.0000		0.9905	0.9136
1754	AC-229	3.7620E+03	0.9995		0.9467	4.4807
1755	AC-230	1.2200E+02	1.0000		1.0000	1.0037
1756	AC-231	4.5000E+02	1.0000		1.0328	0.4055
1757	AC-232	3.5000E+01	1.0000		0.0009	0.0015
1758	AC-233	1.4500E+02	1.0000		1.0000	1.0000
1759	AC-234	4.4000E+01	0.9091		0.0000	0.0000
1760	TH-224	1.0400E+00	1.0096	0.9944	0.0000	0.6246
1761	TH-225	4.8000E+02	1.0000	0.9998		0.9973
1762	TH-226	1.8540E+03	1.0000	0.9998	8.9745	0.3096
1763	TH-227	1.6172E+06	1.0000	0.9985	0.9147	1.0084
1764	TH-228	6.0370E+07	1.0000	1.0013	0.9128	1.0904
1765	TH-229	2.3163E+11	1.0000	1.0086	0.8801	1.0475
1766	TH-230	2.3794E+12	0.9997	1.0000	1.0888	1.3161
1767	TH-231	9.1872E+04	1.0000		0.9276	1.2008
1768	TH-232	4.4338E+17	1.0000	0.9989	0.9053	1.1585
1769	TH-233	1.3380E+03	1.0000		1.0173	0.9713
1770	TH-234	2.0822E+06	1.0000		0.9599	1.0336
1771	TH-235	4.1400E+02	1.0000		0.0000	0.0109
1772	PA-226	1.0800E+02	1.0000	0.7395		
1773	PA-227	2.2980E+03	1.0000	0.9977	0.0000	0.4563
1774	PA-228	7.9200E+04	0.9975	0.9087	1.2545	0.9437
1775	PA-229	1.2096E+05	1.0747	1.8858		0.0707
1776	PA-230	1.5034E+06	0.9977	1.0478	0.6809	0.9589
1777	PA-231	1.0338E+12	1.0000	0.9990	0.6960	1.0329
1778	PA-232	1.1318E+05	1.0000		0.9872	1.0028
1779	PA-233	2.3328E+06	1.0000		1.0442	1.0357
1780	PA-234	2.4120E+04	1.0000		1.2684	1.4170
1781	PA-234M	7.0200E+01	1.0000		0.9954	0.7691
1782	PA-235	1.4520E+03	0.9959		1.0126	0.0000
1783	PA-236	5.4600E+02	1.0000		0.9250	1.0561
1784	PA-237	5.2200E+02	1.0000		1.0000	1.0000
1785	PA-238	1.3800E+02	1.0000		0.0000	4.9763
1786	U -228	5.4600E+02	1.0000	1.0251	0.0000	0.5114

1787	U -229	3.4800E+03	1.0000	0.9825		
1788	U -230	1.7971E+06	0.9999	0.9997	0.9747	0.5638
1789	U -231	3.6288E+05	1.0003	0.8647	0.2024	0.8119
1790	U -232	2.2027E+09	1.0000	0.9996	0.8846	1.2876
1791	U -233	5.0256E+12	0.9997	1.0009	0.6582	1.0119
1792	U -234	7.7537E+12	1.0000	1.0000	0.8696	1.2964
1793	U -235	2.2210E+16	0.9998	1.0018	0.7826	0.9904
1794	U -235M	1.5600E+03	1.0000		0.0000	0.0000
1795	U -236	7.3895E+14	1.0001	0.9984	0.9899	1.4312
1796	U -237	5.8320E+05	1.0000		0.9215	1.0155
1797	U -238	1.4100E+17	1.0000	1.0002	0.7681	1.0686
1798	U -239	1.4082E+03	1.0000		0.9919	0.9928
1799	U -240	5.0760E+04	1.0000		0.9695	1.0585
1801	U -242	1.0100E+03	1.0000		1.0000	1.0000
1805	NP-230	2.7600E+02	1.0000	0.0000		
1806	NP-231	2.9280E+03	1.0000	0.9824	0.0000	0.0874
1807	NP-232	8.8200E+02	1.0000		0.4002	0.9821
1808	NP-233	2.1720E+03	1.0000	0.0000	0.1840	0.7198
1809	NP-234	3.8000E+05	1.0004		83.6364	0.0011
1810	NP-235	3.4223E+07	1.0002	0.9672	0.9899	0.9971
1811	NP-236	4.7968E+12	0.7566	0.0000	0.8264	0.9615
1812	NP-236M	8.1000E+04	1.0000		0.9113	1.2083
1813	NP-237	6.7533E+13	1.0000	0.9705	0.8331	1.0412
1814	NP-238	1.8291E+05	1.0000		0.8346	1.0042
1815	NP-239	2.0347E+05	1.0000		0.9245	1.0077
1816	NP-240	3.9000E+03	0.9523		0.9789	0.9336
1817	NP-240M	4.4400E+02	0.9757		0.9122	0.9560
1818	NP-241	8.3400E+02	1.0012		0.0000	0.0000
1819	NP-242	3.3000E+02	1.0000		0.0000	0.0000
1820	NP-242M	1.3200E+02	0.9848		0.0000	0.0000
1825	PU-232	2.0460E+03	1.0020	0.9827	0.0010	0.7058
1826	PU-233	1.2540E+03	1.0000	0.0000		0.9974
1827	PU-234	3.1680E+04	1.0006	0.9829		
1828	PU-235	1.5180E+03	1.0013	0.9654	0.1168	0.9438
1829	PU-236	9.1517E+07	1.0000	0.9999	0.8629	1.4564
1830	PU-237	3.9139E+06	0.9971	0.9825	0.4915	1.0008
1832	PU-238	2.7676E-09	1.0000	1.0000	0.8088	1.3240
1833	PU-239	7.6095E+11	0.9999	1.0001	0.5917	1.2861

1834	PU-240	2.0711E+11	1.0000	1.0000	0.8015	1.4088
1835	PU-241	4.5443E+08	0.9965	0.9908	1.0004	1.0589
1836	PU-242	1.1787E+13	1.0000	0.9998	0.8091	1.2780
1837	PU-243	1.7842E+04	1.0000		0.9744	0.9967
1838	PU-244	2.5246E+15	1.0000	0.9512	0.0000	0.0000
1839	PU-245	3.7800E+04	1.0000		1.0168	0.9960
1840	PU-246	9.3744E+05	0.9991		0.9836	1.1552
1842	AM-237	4.3800E+03	1.0000	0.9831	0.6848	1.0168
1843	AM-238	5.8800E+03	1.0000	49.1434	0.2639	1.0057
1844	AM-239	4.2840E+04	0.9991	0.9833	1.1537	0.8809
1845	AM-240	1.8288E+05	1.0020	0.9988	0.7474	1.0046
1846	AM-241	1.3655E+10	1.0000	0.9997	0.7715	1.0531
1847	AM-242	5.7672E+04	1.0000		0.9686	1.1212
1848	AM-242M	4.4496E+09	1.0000	0.9427	0.9094	1.2252
1849	AM-243	2.3242E+11	1.0007	0.9988	0.8273	1.0305
1850	AM-244	3.6360E+04	1.0000		1.0321	0.9604
1851	AM-244M	1.5600E+03	1.0000		0.9978	1.3666
1852	AM-245	7.3800E+03	1.0000		1.0080	1.1750
1853	AM-246	2.3400E+03	1.0000		0.0000	0.9030
1854	AM-246M	1.5000E+03	1.0000		0.0000	0.9595
1855	AM-247	1.3200E+03	1.0000		0.0000	0.7581
1857	CM-238	8.6400E+03	1.0000	0.0000		
1858	CM-239	1.0800E+04	1.0000		0.0000	0.1485
1859	CM-240	2.3328E+06	1.0001	1.0008		
1860	CM-241	2.8339E+06	1.0000	0.9951	0.8450	1.0146
1861	CM-242	1.4078E+07	1.0000	0.9910	0.7914	1.5374
1862	CM-243	9.4673E+08	0.9500	0.9986	0.7901	0.9980
1863	CM-244	5.7119E+08	1.0000	0.9999	0.7859	1.4154
1864	CM-245	2.6824E+11	1.0000	1.0007	0.8611	0.9915
1865	CM-246	1.4927E+11	1.0000	0.9891	0.8000	0.5629
1866	CM-247	5.0492E+14	1.0000	1.0002	0.4869	1.0370
1867	CM-248	1.0730E+13	1.0000	0.2318	0.8695	0.0023