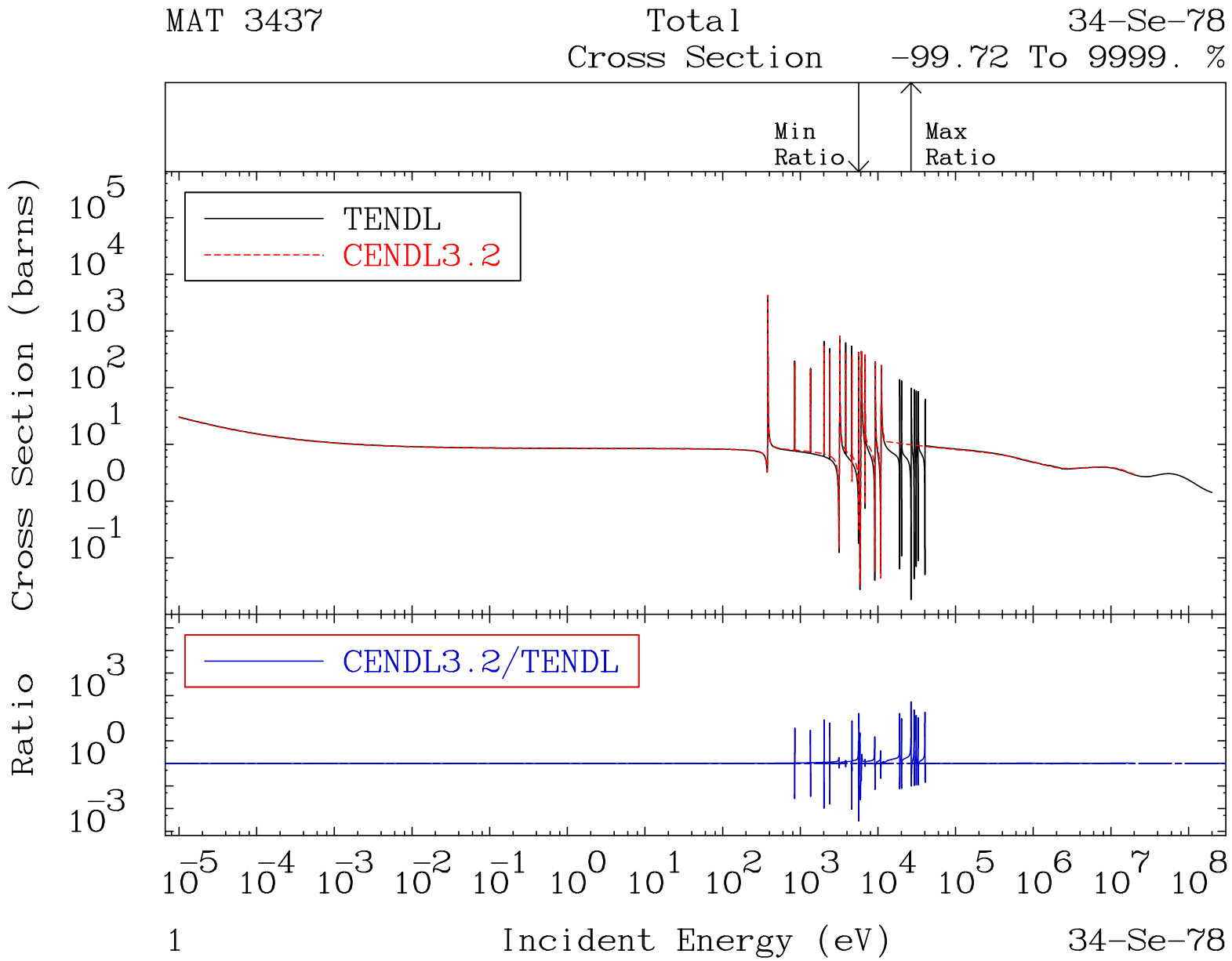
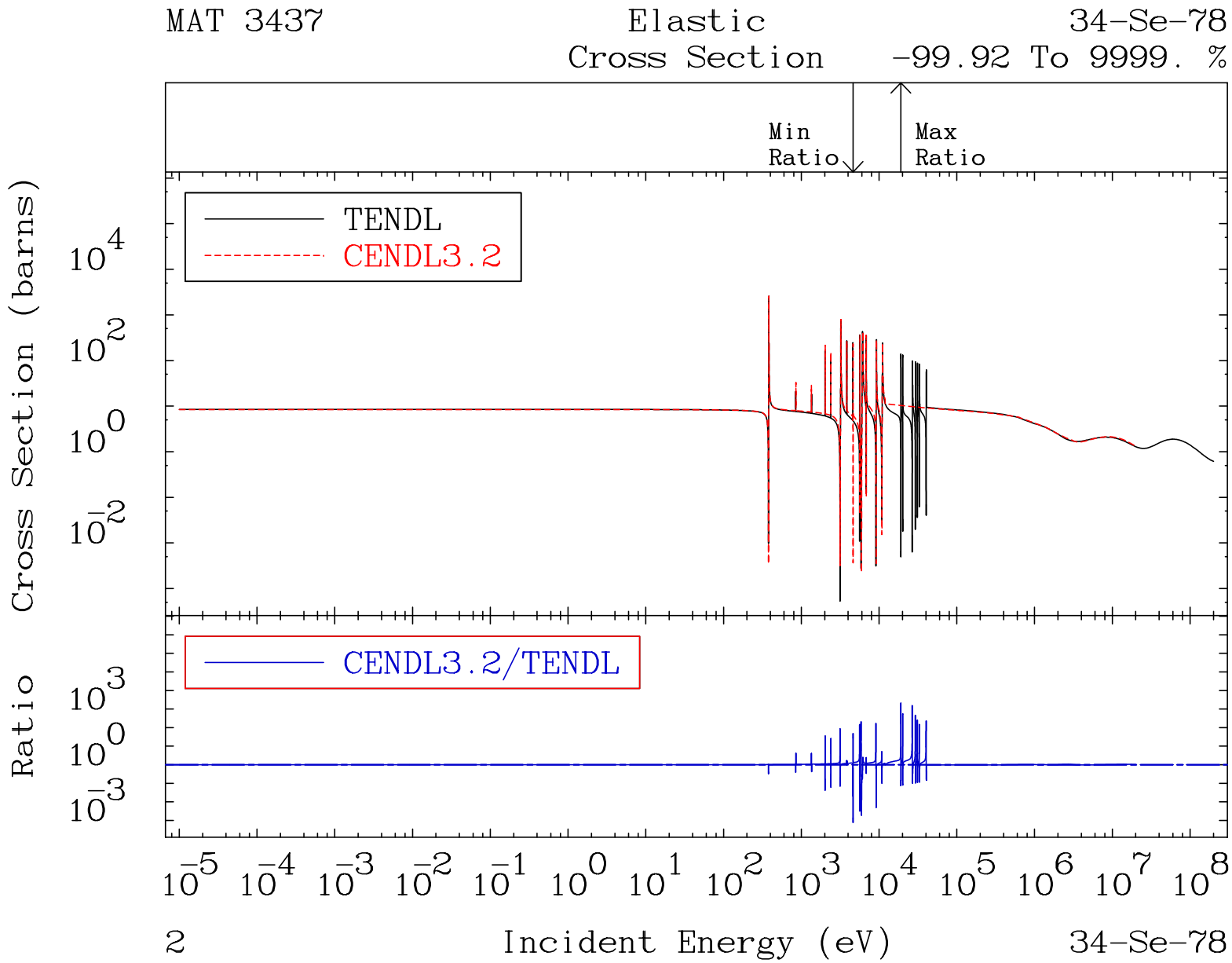
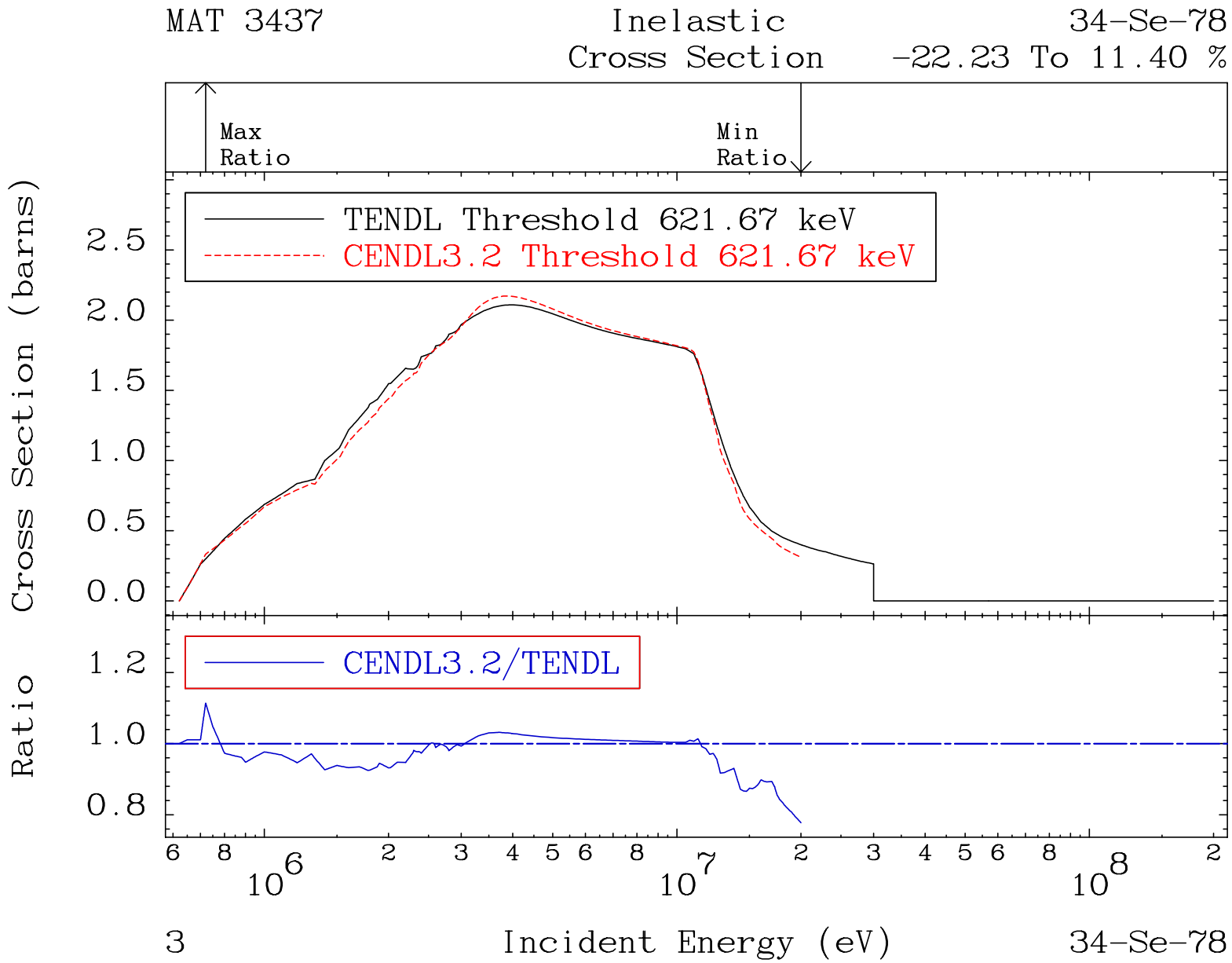
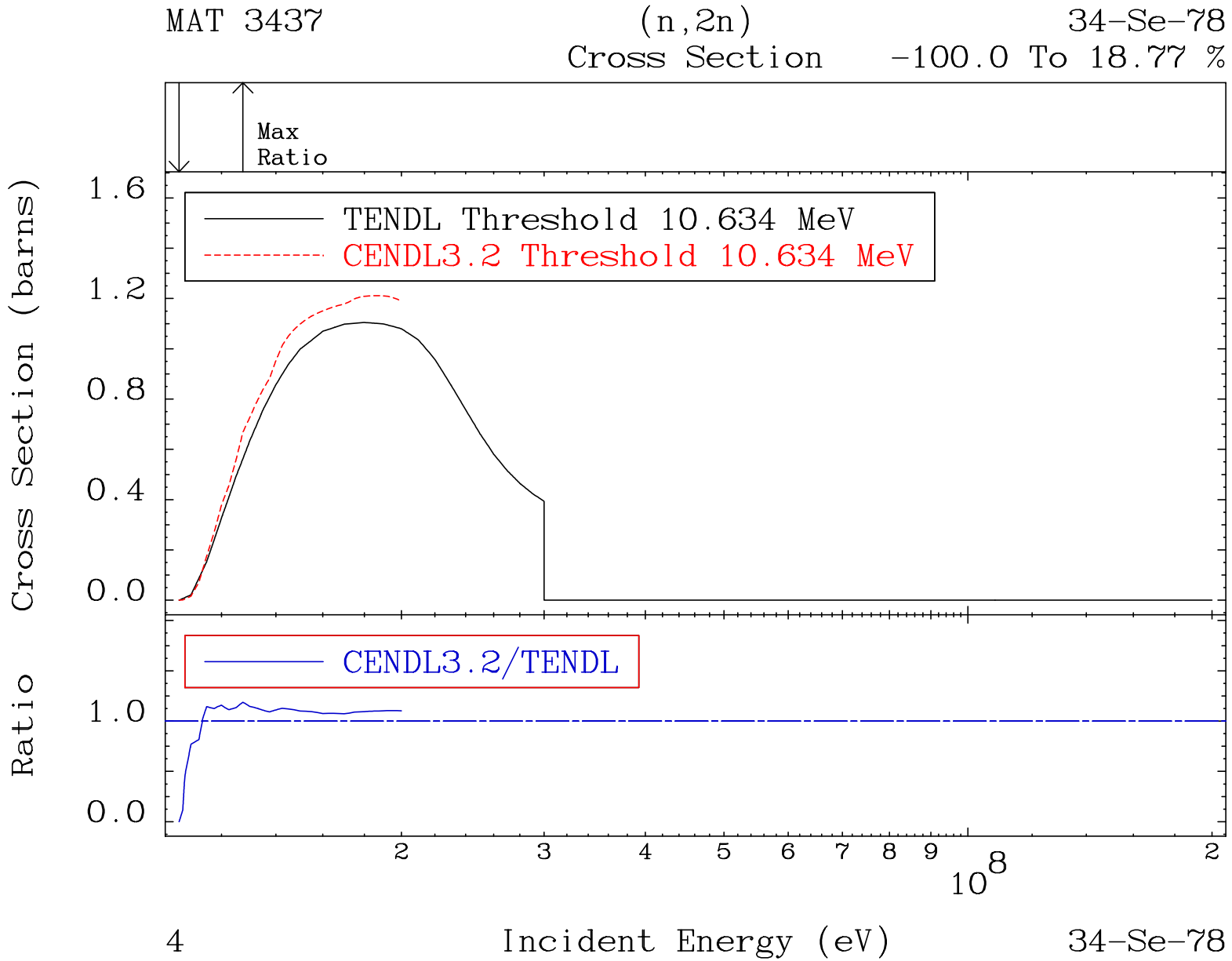
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

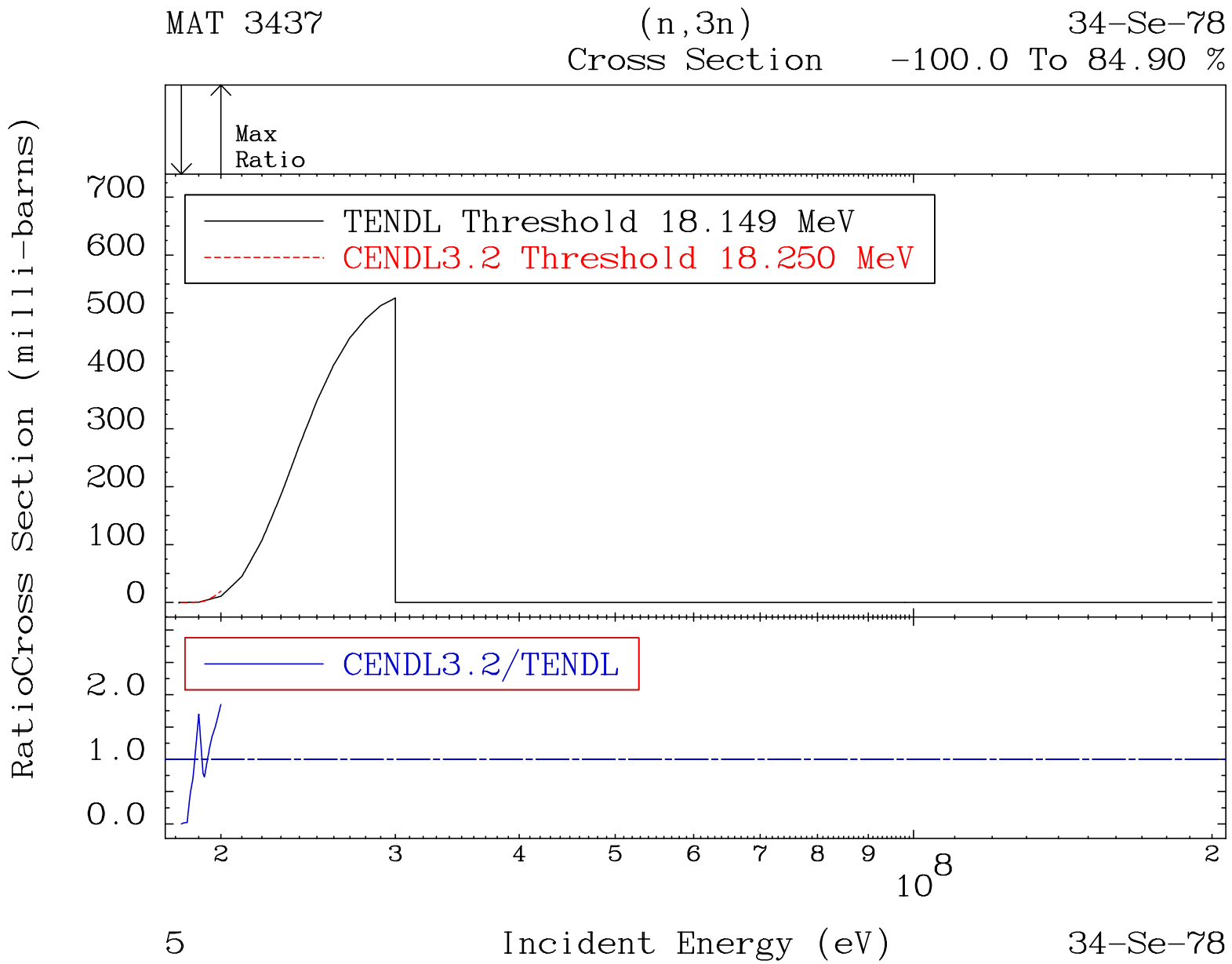
Press Mouse Button to Start

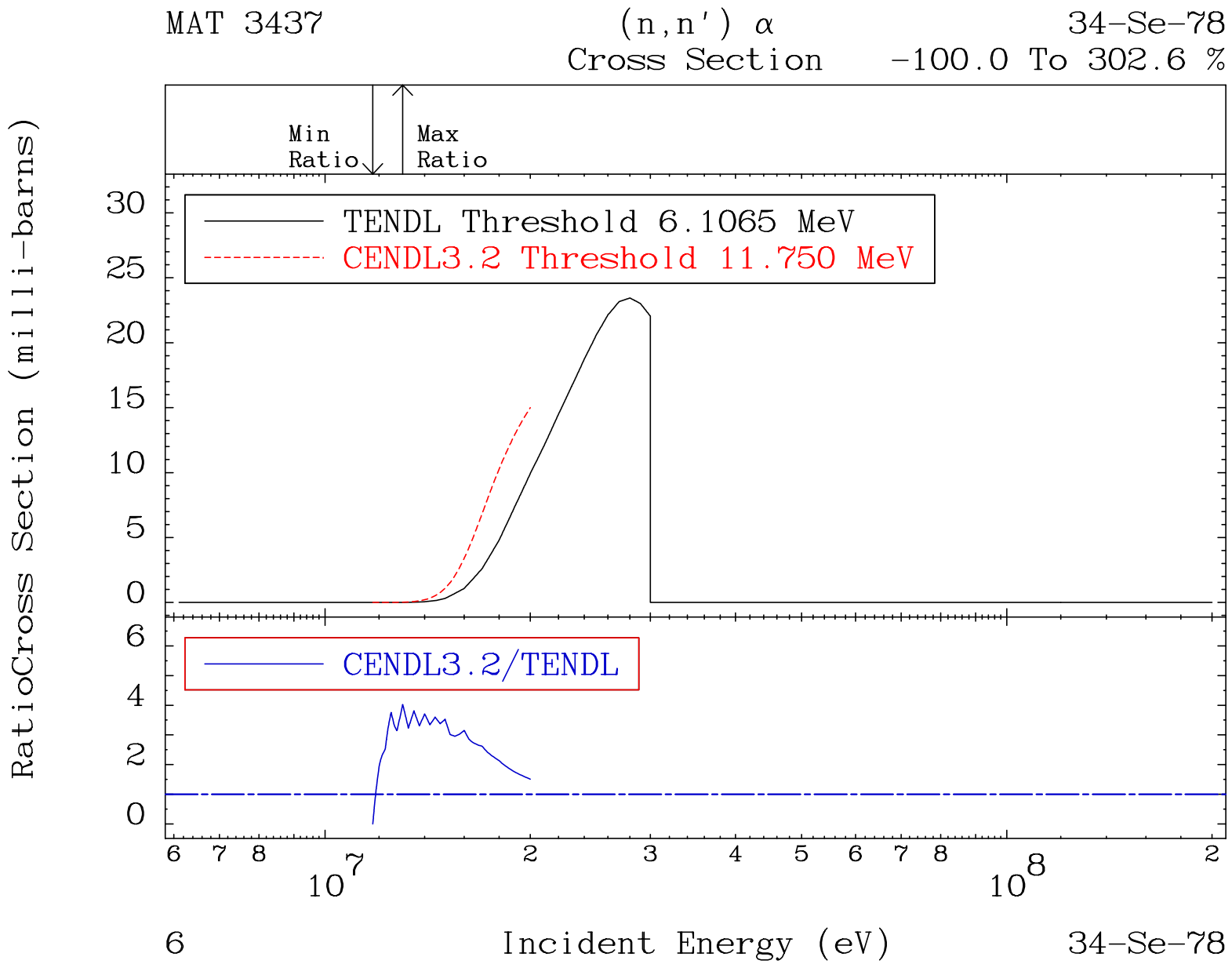

MAT 3437
Total
Cross Section
34-Se-78
-99.72 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
34-Se-78

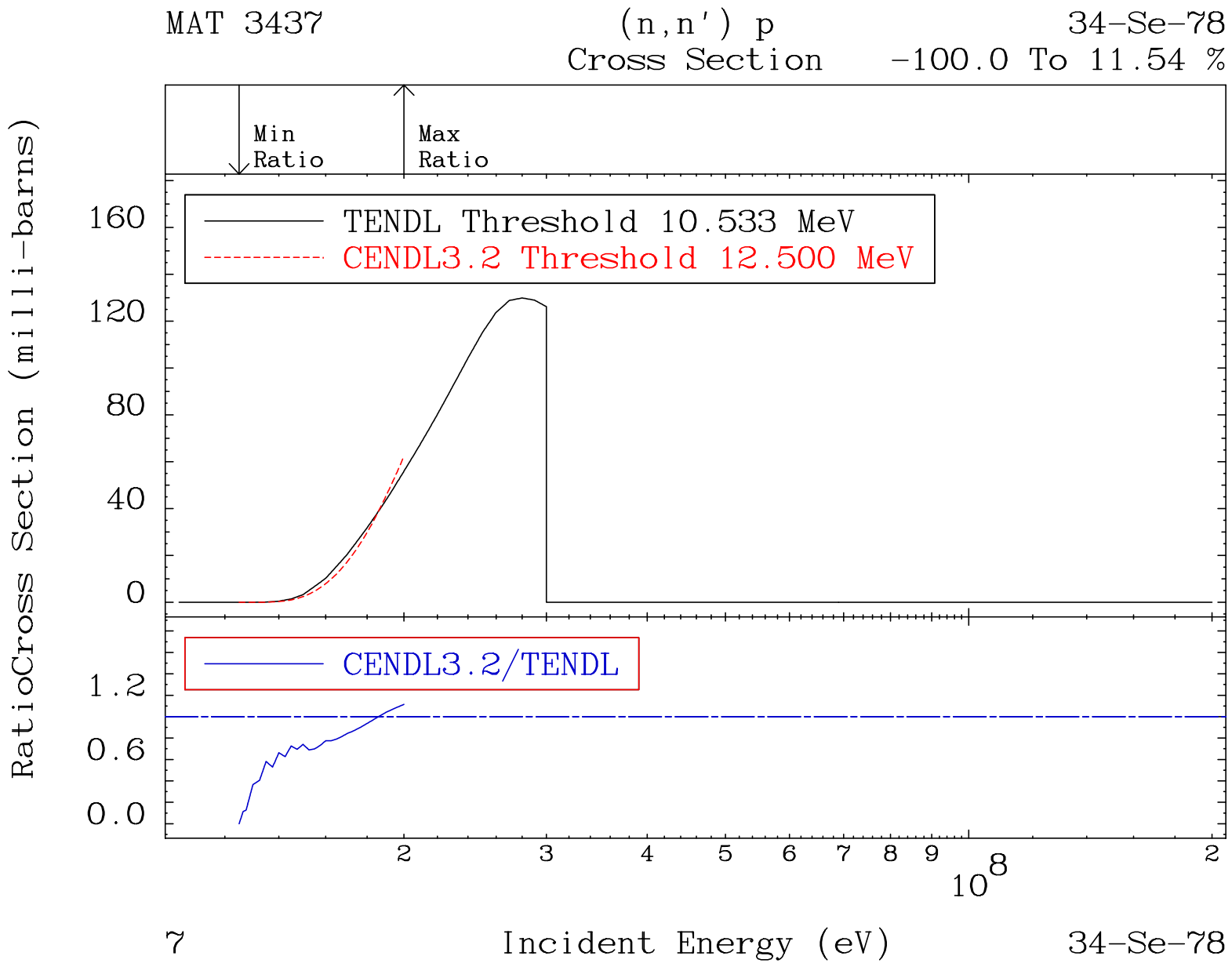

MAT 3437
Elastic
Cross Section
34-Se-78
-99.92 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
34-Se-78

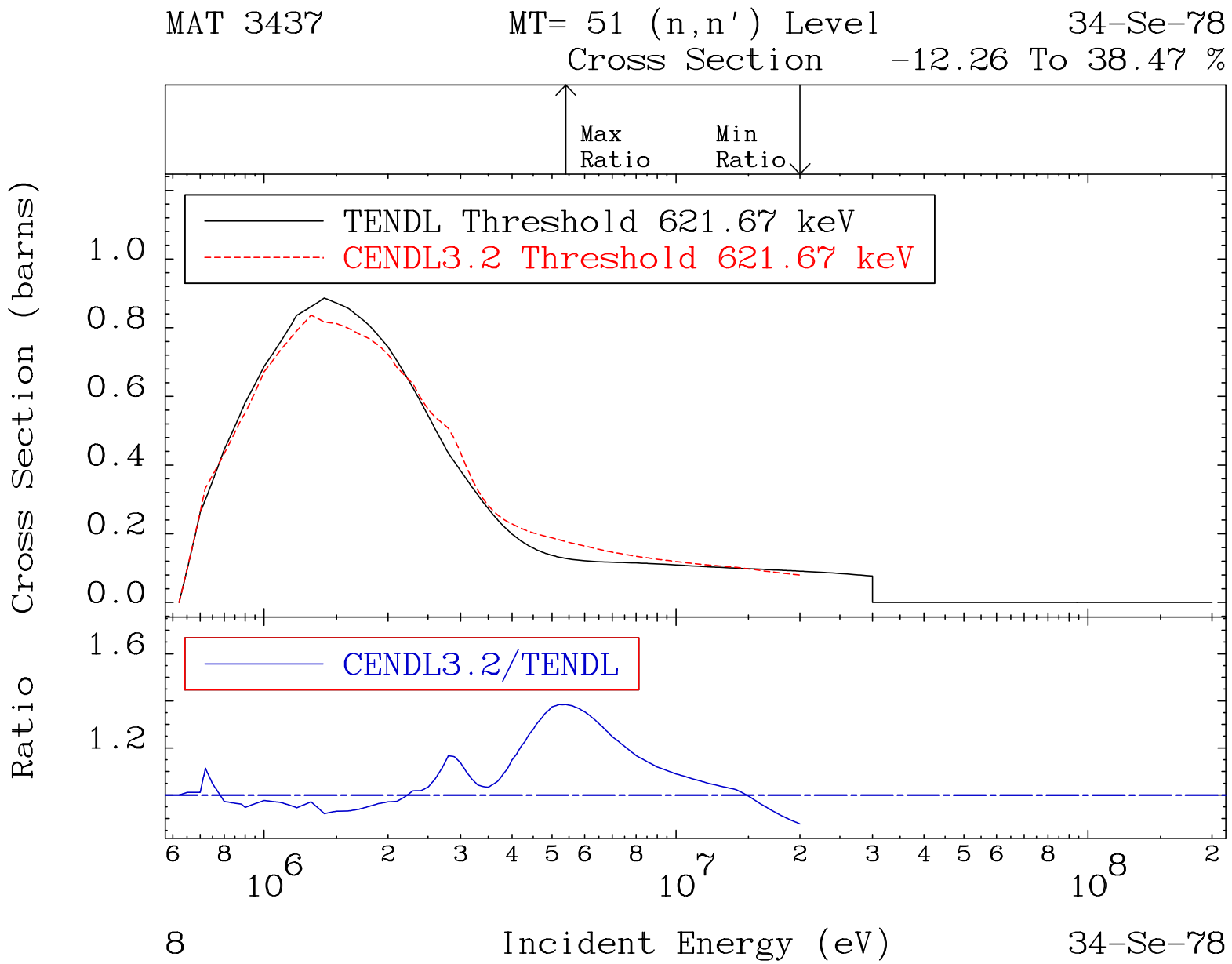

MAT 3437
Inelastic
Cross Section
34-Se-78
-22.23 To 11.40 %
Max
Ratio
Min
Ratio
TENDL Threshold 621.67 keV
CENDL3.2 Threshold 621.67 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
1.2
1.0
0.8
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
34-Se-78

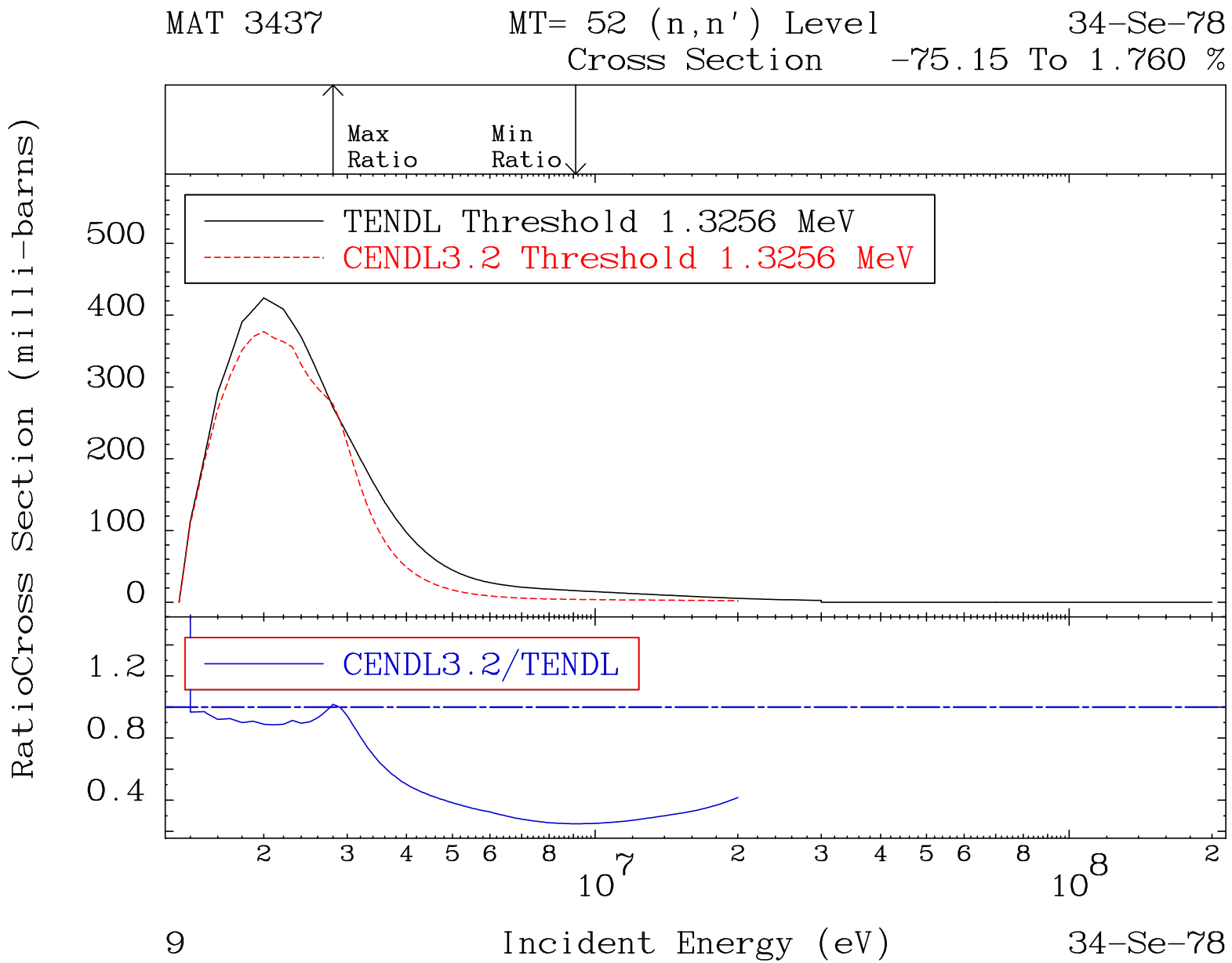

MAT 3437
(n,2n)
34-Se-78
Cross Section
-100.0 To 18.77 %
Max
Ratio
1.6
1.2
0.8
0.4
0.0
TENDL Threshold 10.634 MeV
CENDL3.2 Threshold 10.634 MeV
Cross Section (barns)
CENDL3.2/TENDL
1.0
0.0
Ratio
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
34-Se-78

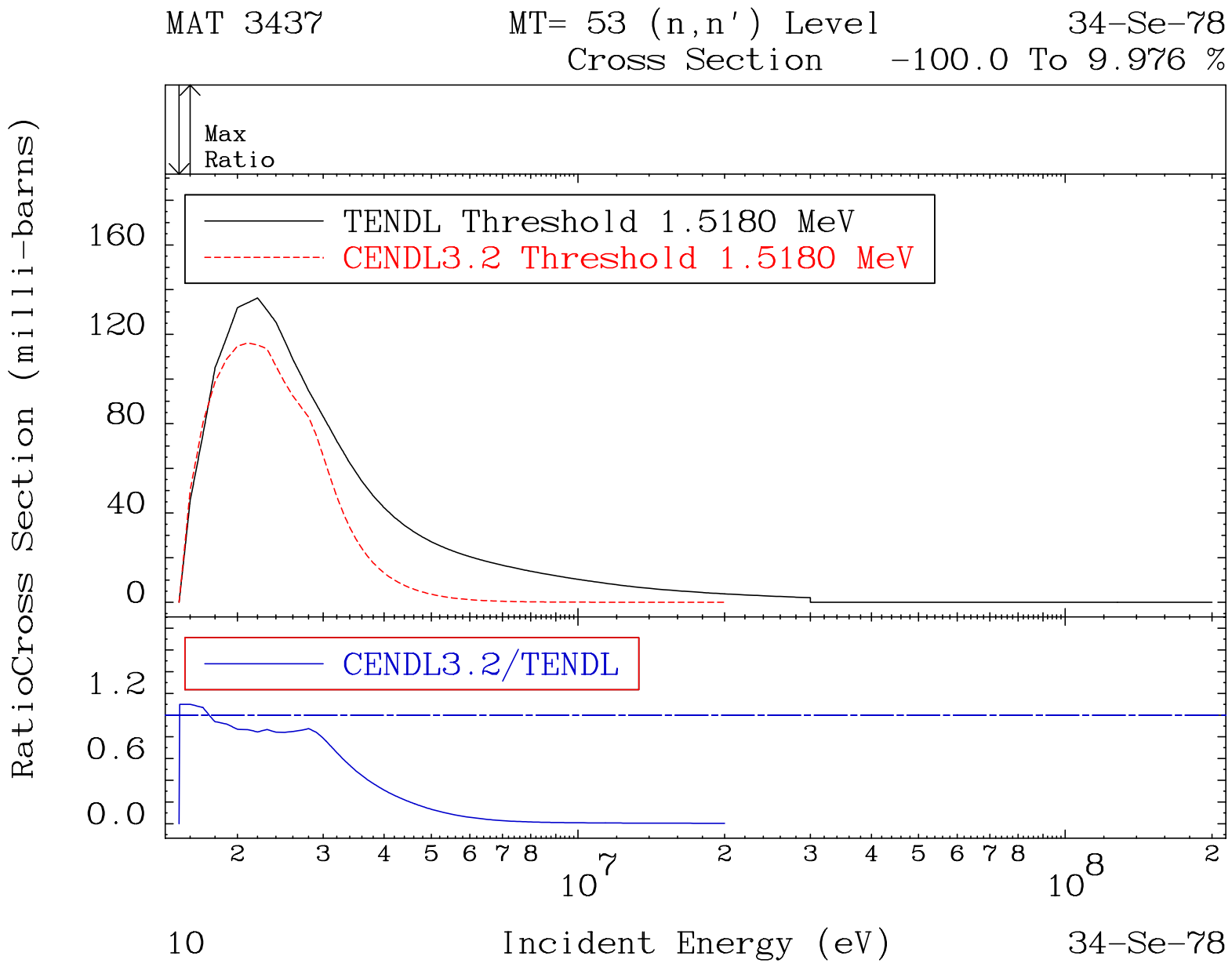

MAT 3437
(n,3n)
Cross Section
34-Se-78
-100.0 To 84.90 %
Max
Ratio
700
600
500
400
300
200
100
0
TENDL Threshold 18.149 MeV
CENDL3.2 Threshold 18.250 MeV
2.0
1.0
0.0
CENDL3.2/TENDL
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
5
Incident Energy (eV)
34-Se-78

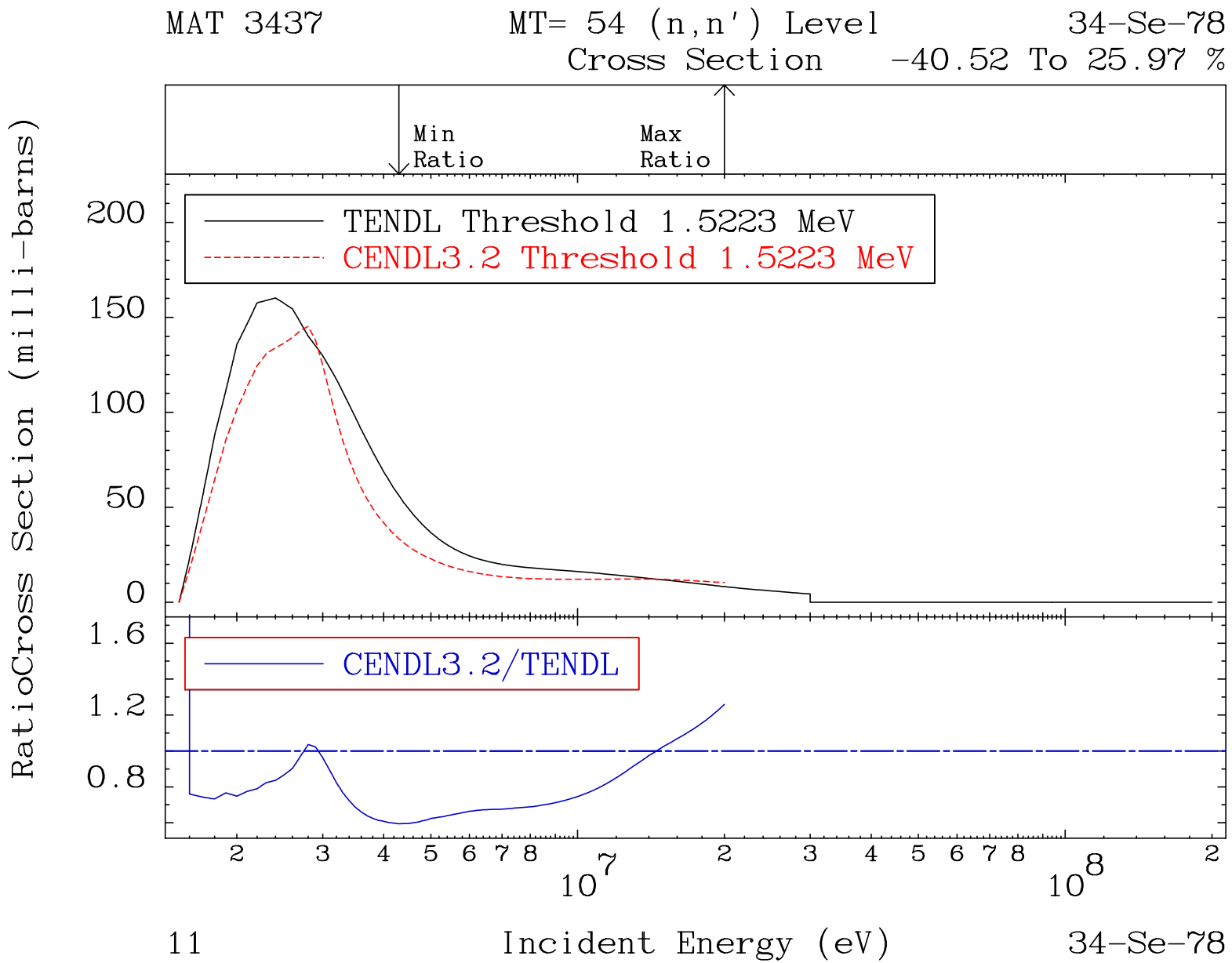

MAT 3437
(n,n') α
Cross Section
34-Se-78
-100.0 To 302.6 %
Min Ratio
Max Ratio
TENDL Threshold 6.1065 MeV
CENDL3.2 Threshold 11.750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
34-Se-78

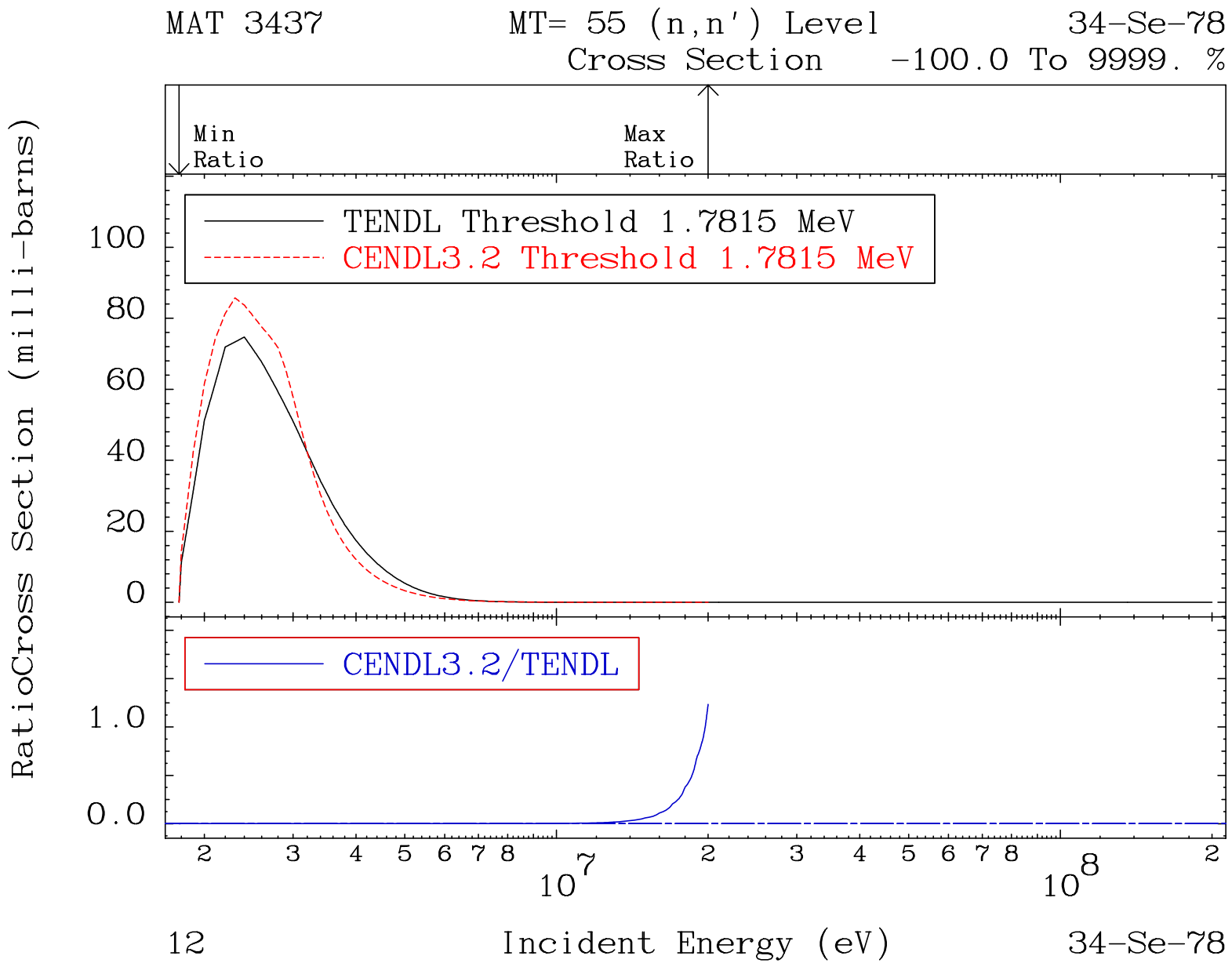

MAT 3437
(n,n') p
Cross Section
34-Se-78
-100.0 To 11.54 %
Min Ratio
Max Ratio
TENDL Threshold 10.533 MeV
CENDL3.2 Threshold 12.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
7
Incident Energy (eV)
34-Se-78

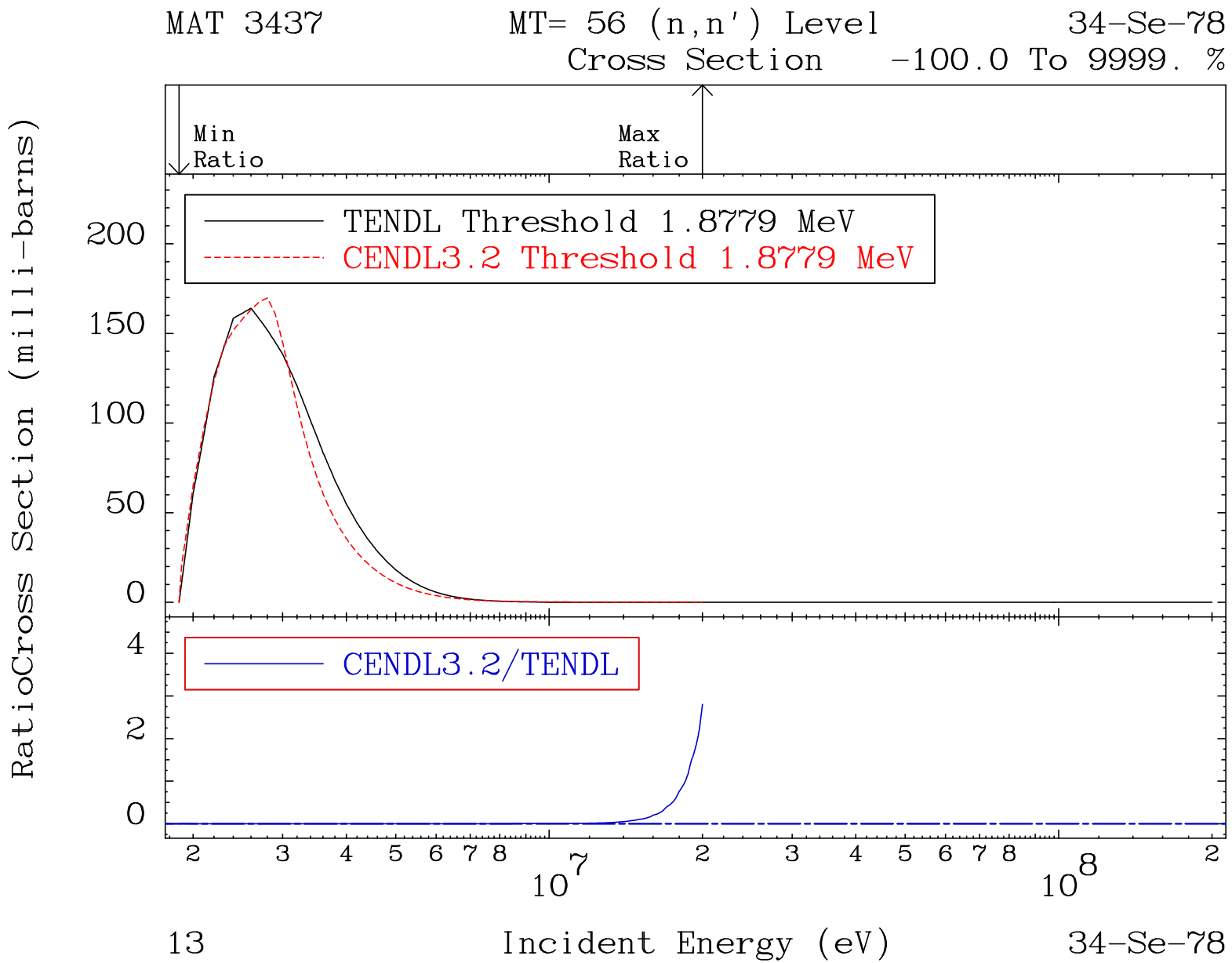

MAT 3437
MT= 51 (n,n') Level
34-Se-78
Cross Section -12.26 To 38.47 %
Max Ratio
Min Ratio
TENDL Threshold 621.67 keV
CENDL3.2 Threshold 621.67 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.6
1.2
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
8
34-Se-78

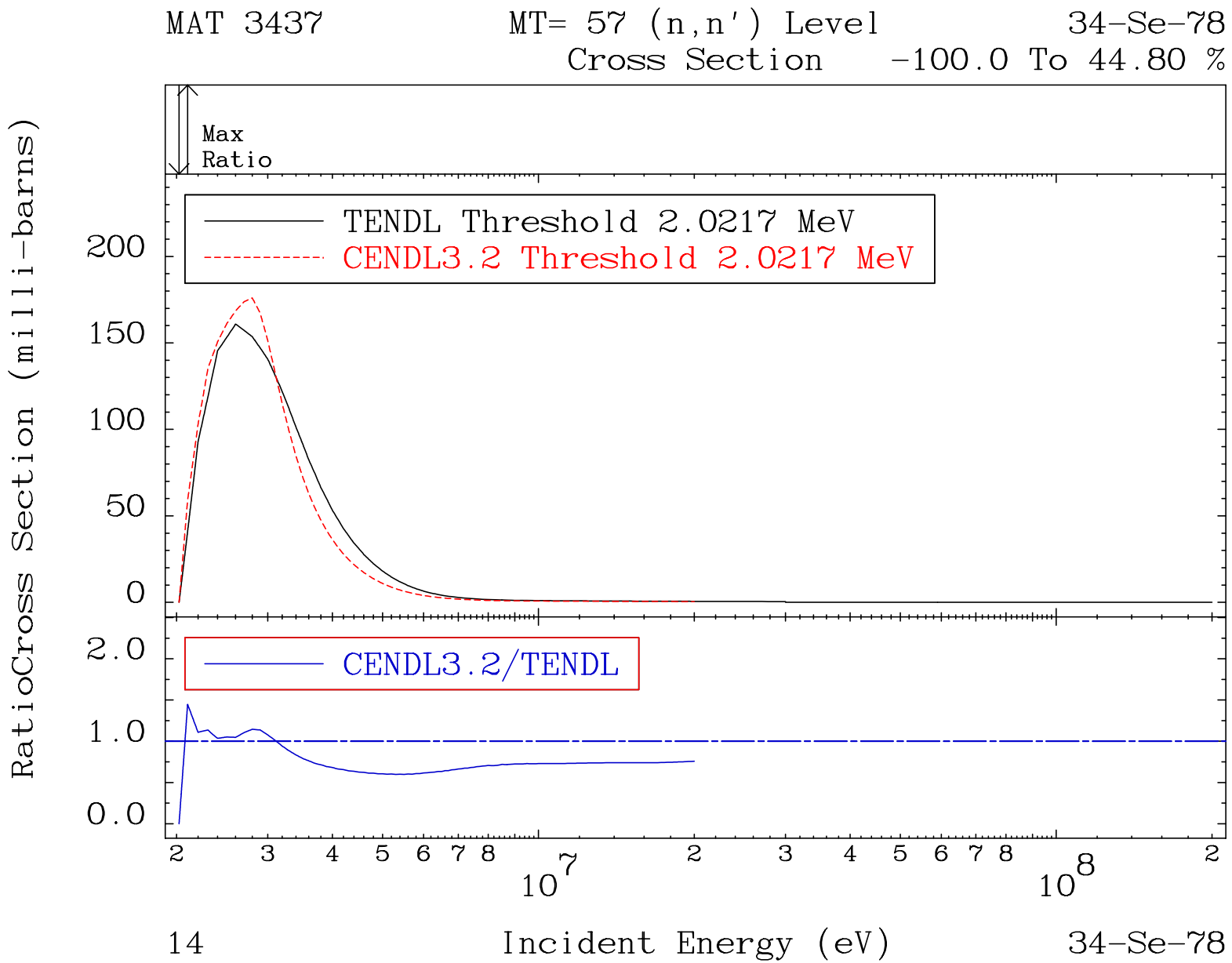

MAT 3437
MT= 52 (n,n') Level
34-Se-78
Cross Section -75.15 To 1.760 %
Max Ratio
Min Ratio
TENDL Threshold 1.3256 MeV
CENDL3.2 Threshold 1.3256 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.2
0.8
0.4
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
9
Incident Energy (eV)
34-Se-78

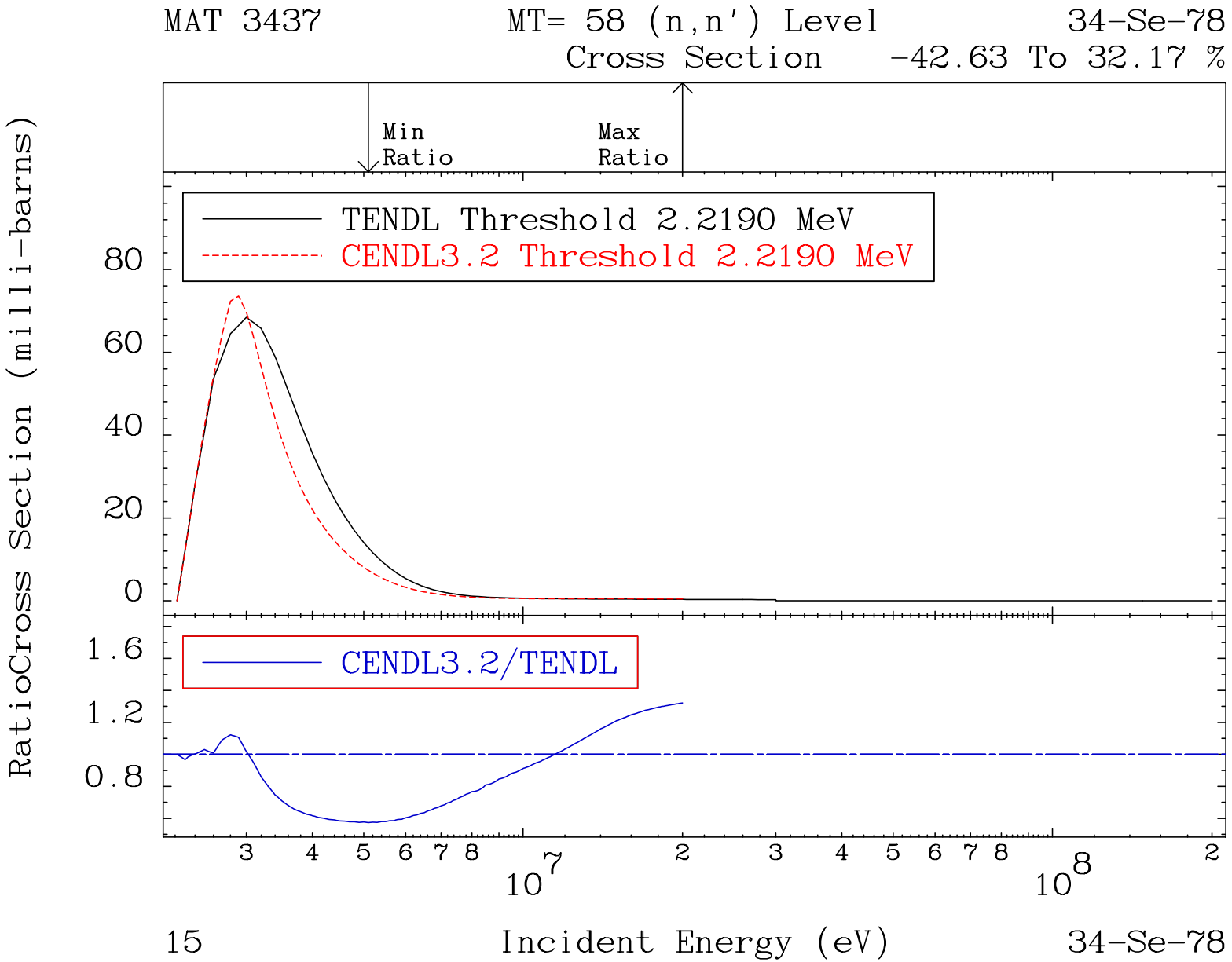

MAT 3437
MT= 53 (n,n') Level
34-Se-78
Cross Section
-100.0 To 9.976 %
Max
Ratio
TENDL Threshold 1.5180 MeV
CENDL3.2 Threshold 1.5180 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
34-Se-78

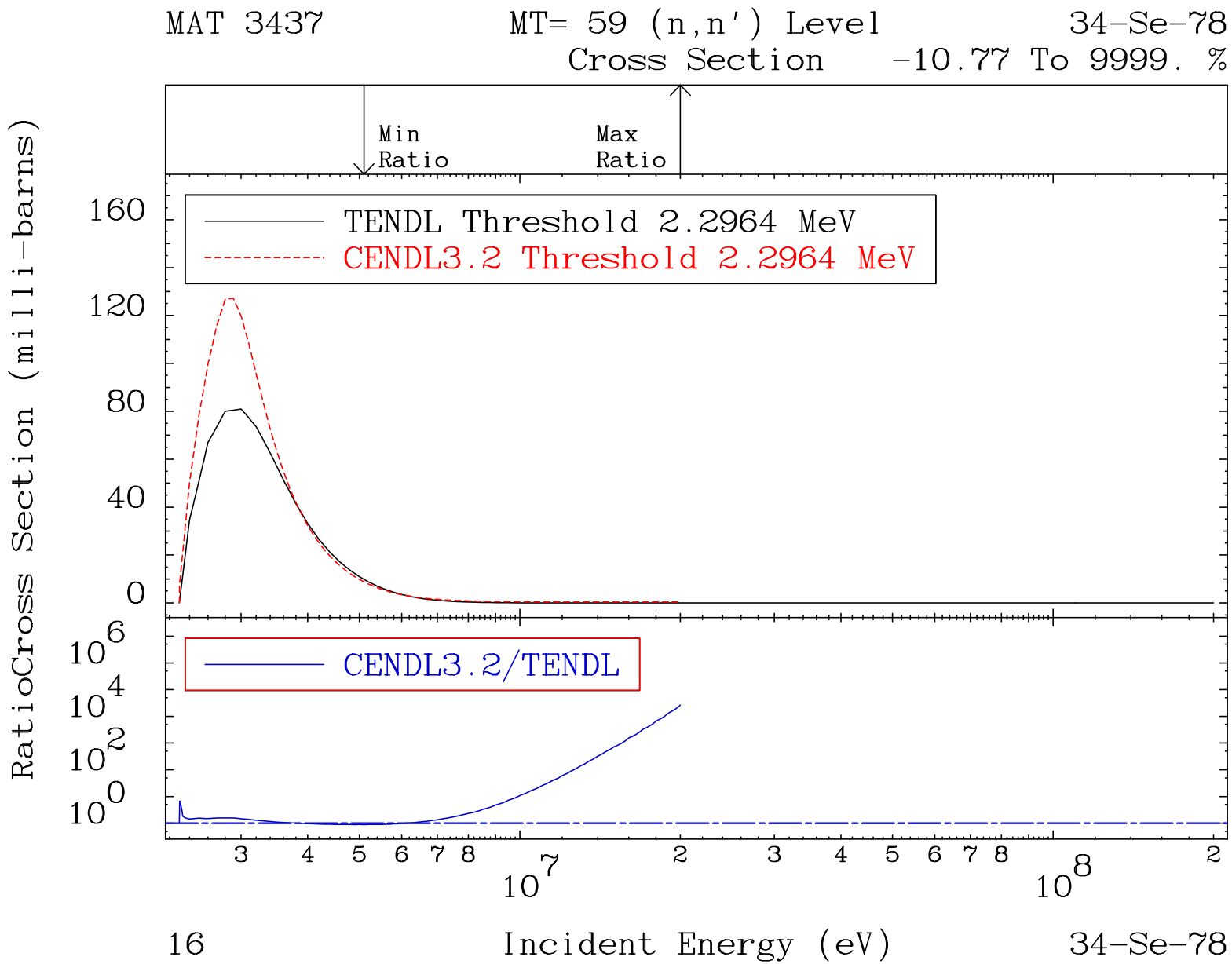

MAT 3437
MT= 54 (n,n') Level
34-Se-78
Cross Section
-40.52 To 25.97 %
Min Ratio
Max Ratio
TENDL Threshold 1.5223 MeV
CENDL3.2 Threshold 1.5223 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.6
1.2
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
34-Se-78

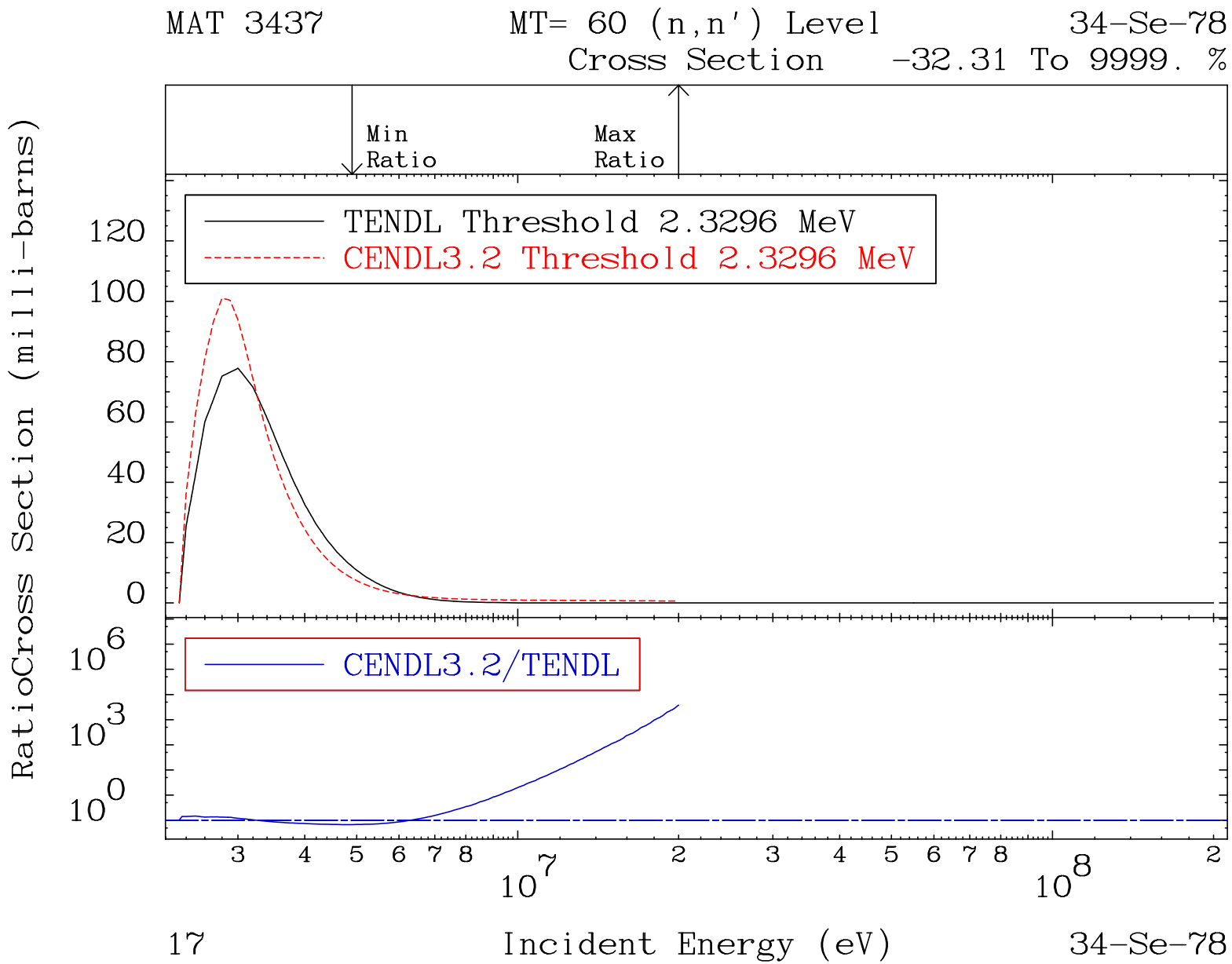

MAT 3437
MT= 55 (n,n') Level
34-Se-78
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7815 MeV
CENDL3.2 Threshold 1.7815 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
34-Se-78

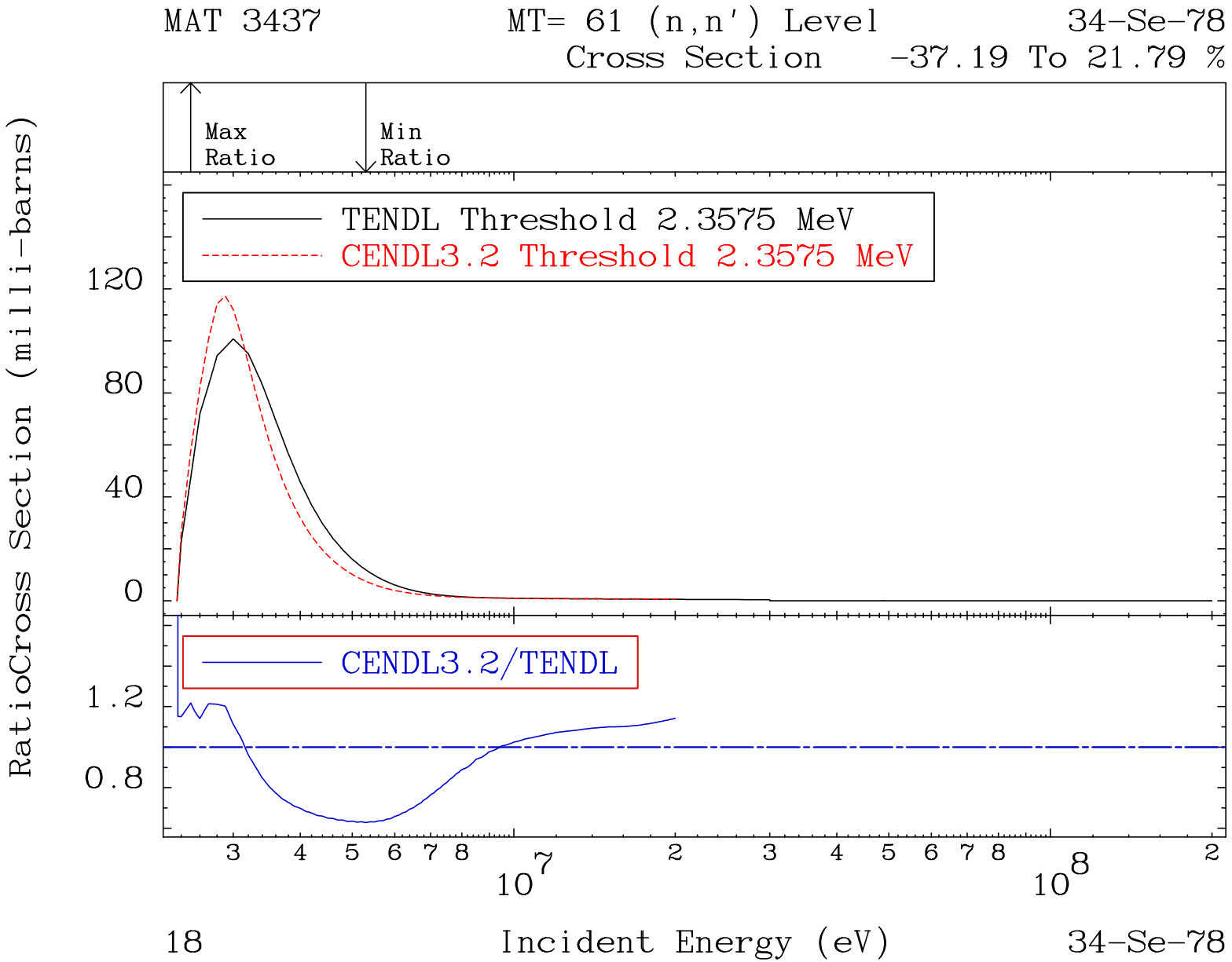

MAT 3437
MT= 56 (n,n') Level
34-Se-78
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8779 MeV
CENDL3.2 Threshold 1.8779 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
34-Se-78

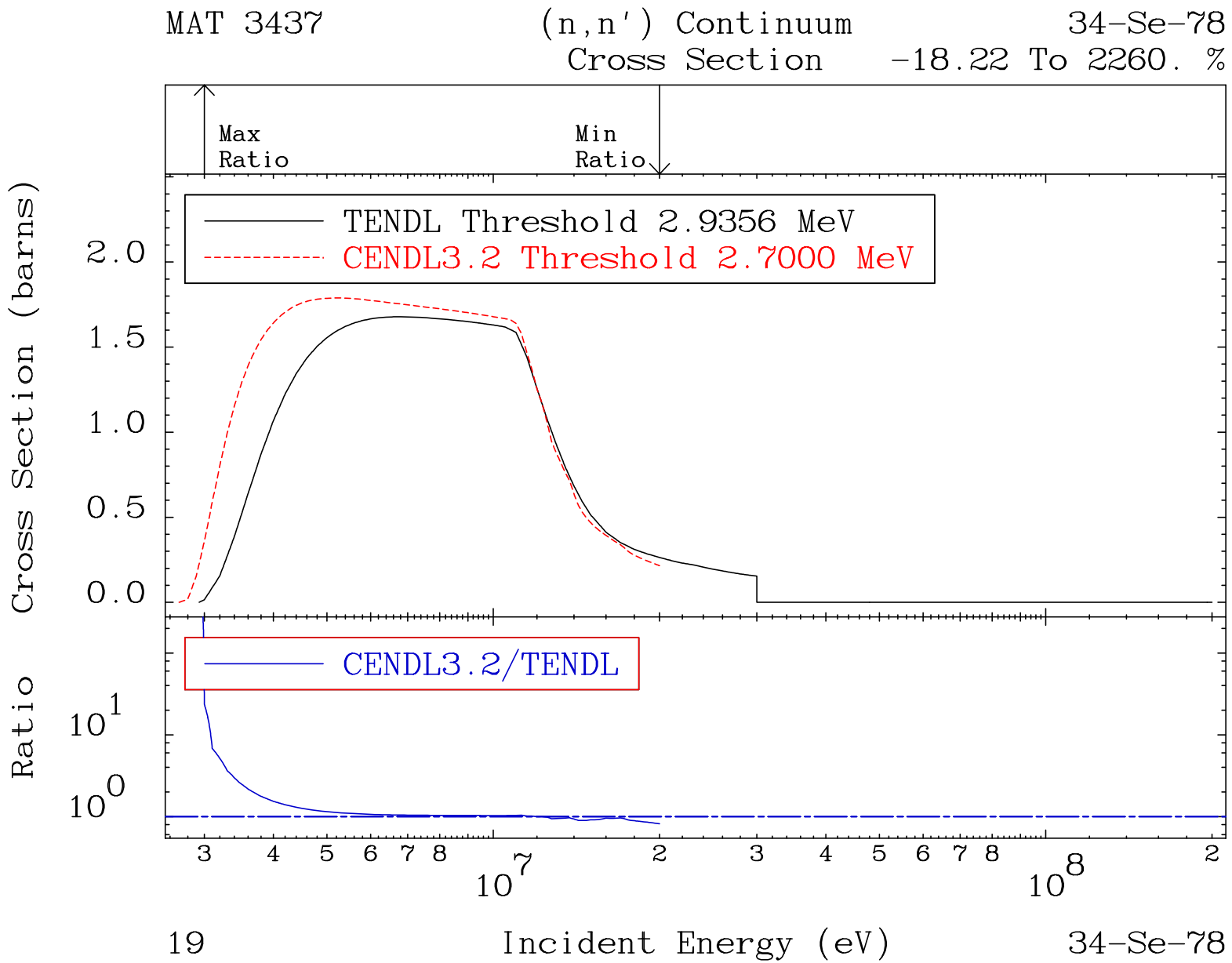

MAT 3437
MT= 57 (n,n') Level
34-Se-78
Cross Section
-100.0 To 44.80 %
Max
Ratio
TENDL Threshold 2.0217 MeV
CENDL3.2 Threshold 2.0217 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
34-Se-78

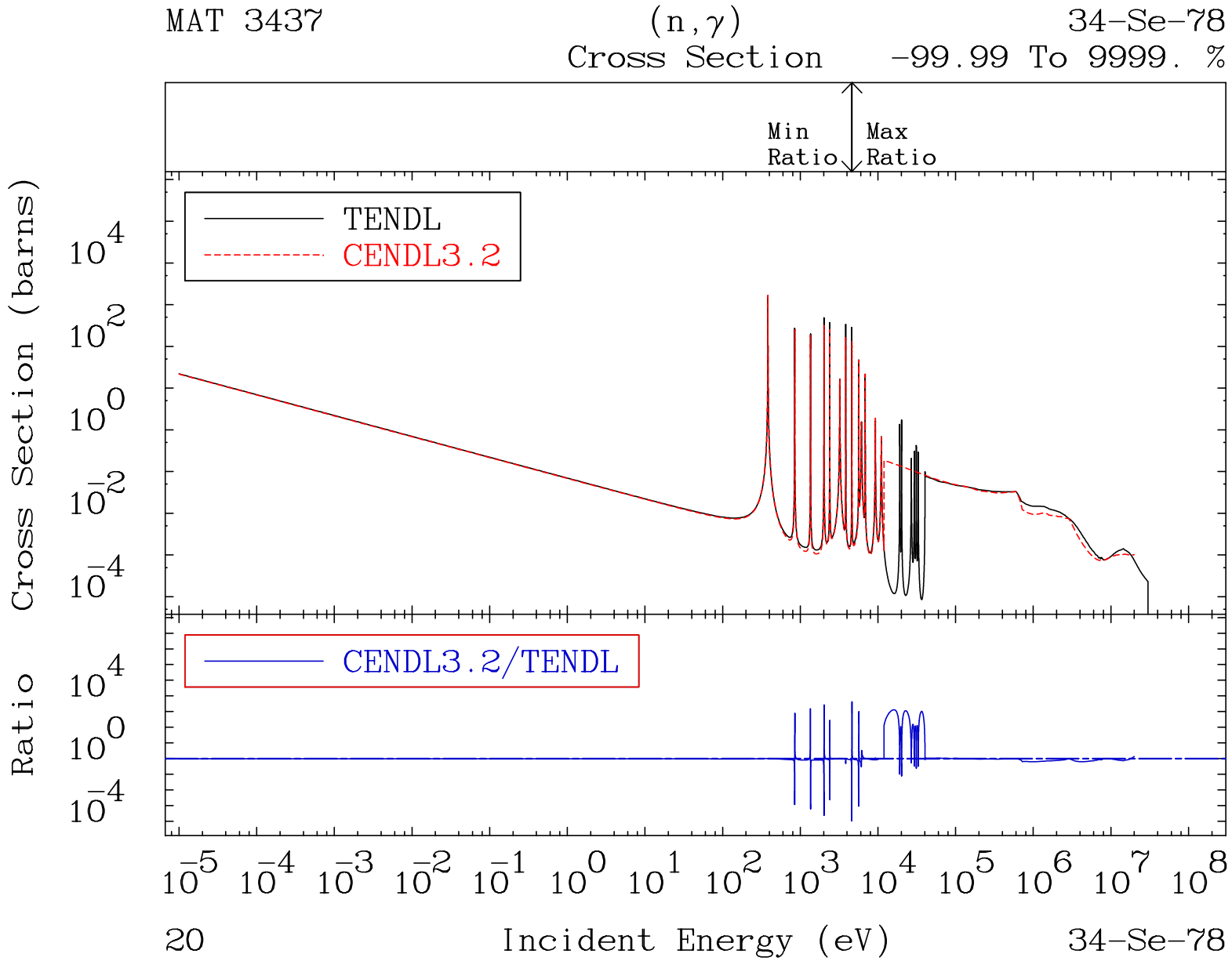

MAT 3437
MT= 58 (n,n') Level
34-Se-78
Cross Section -42.63 To 32.17 %
Min Ratio
Max Ratio
TENDL Threshold 2.2190 MeV
CENDL3.2 Threshold 2.2190 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.6
1.2
0.8
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
34-Se-78

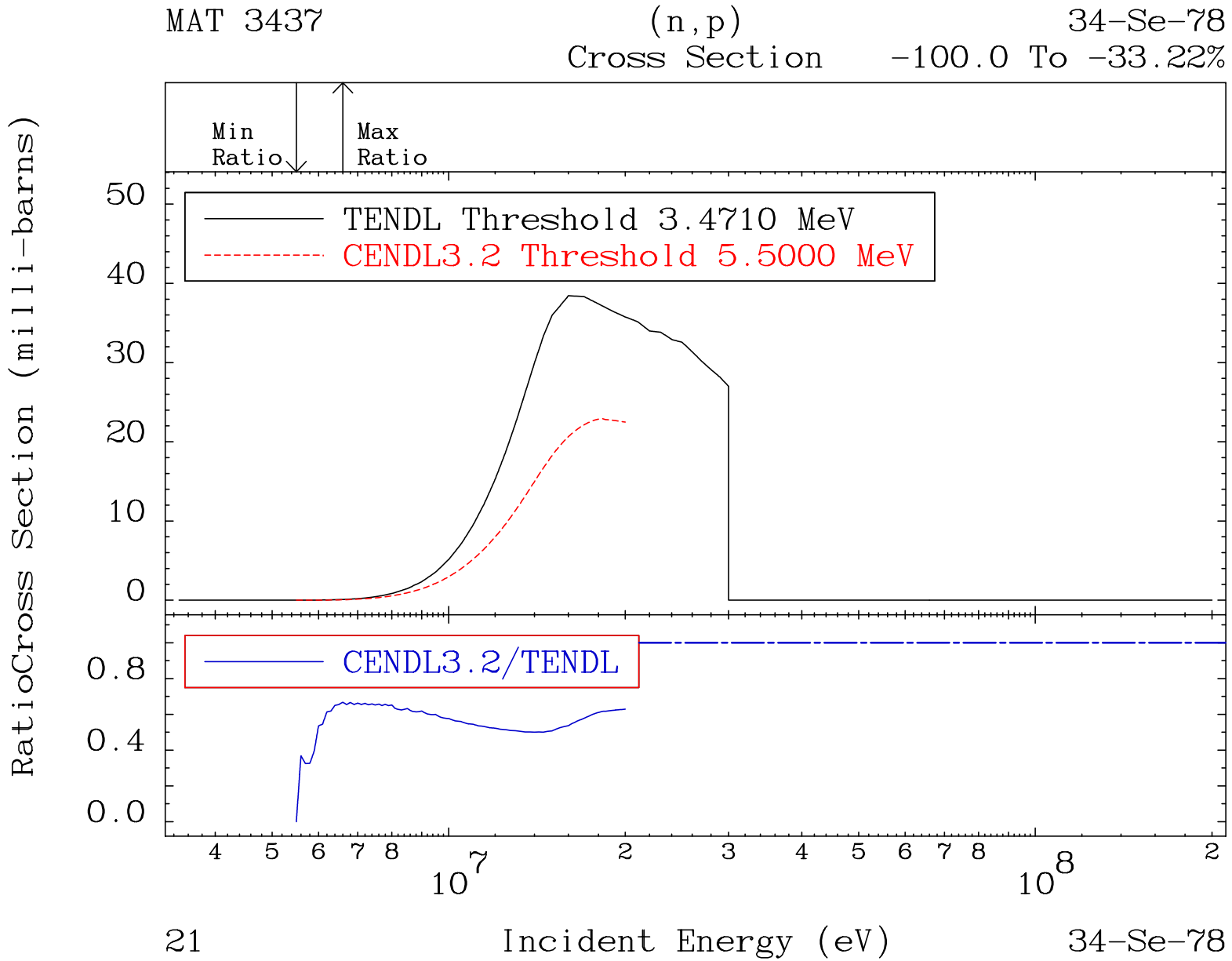

MAT 3437
MT= 59 (n,n') Level
34-Se-78
Cross Section -10.77 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.2964 MeV
CENDL3.2 Threshold 2.2964 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^6
10^4
10^2
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
34-Se-78

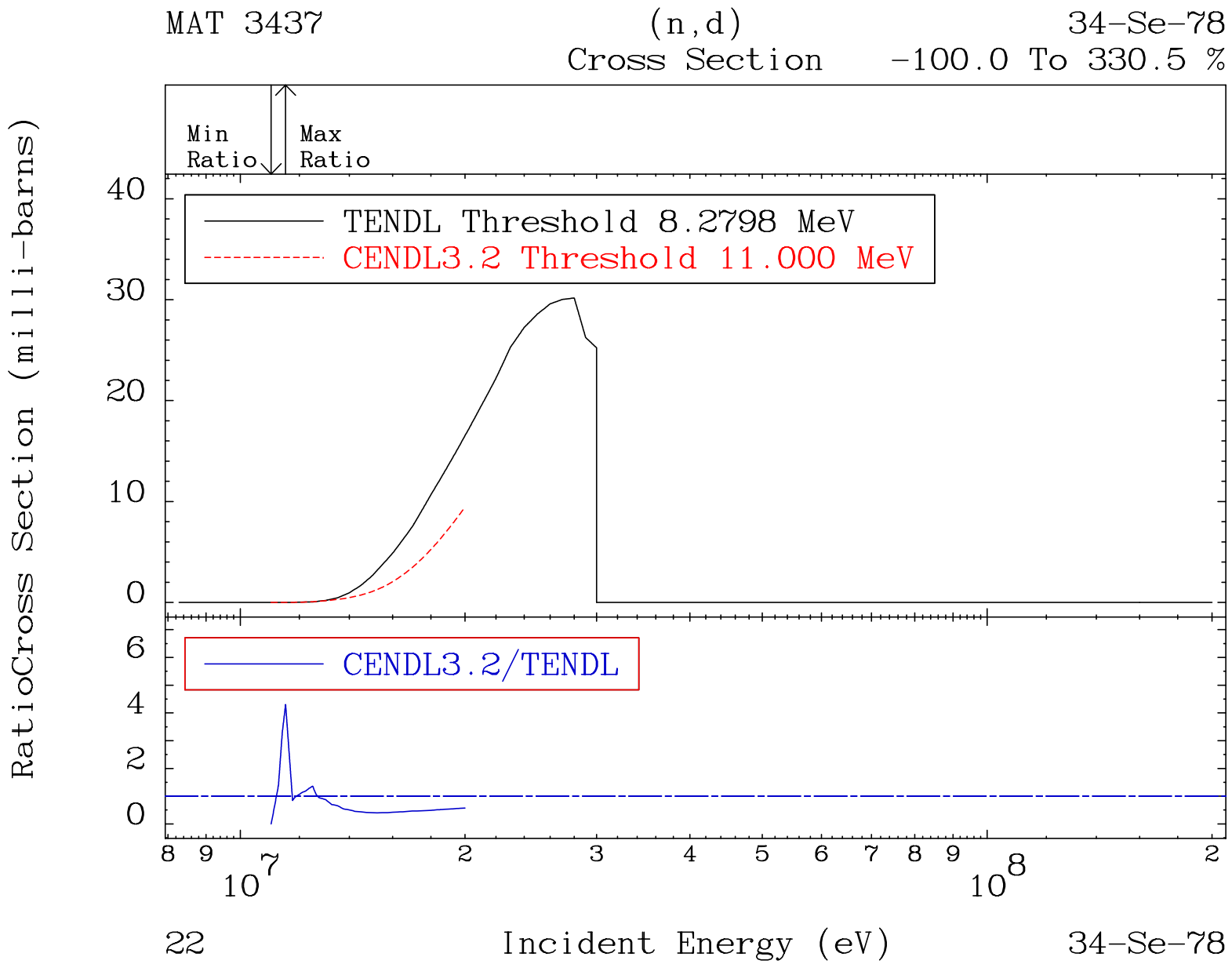

MAT 3437
MT= 60 (n,n') Level
34-Se-78
Cross Section -32.31 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.3296 MeV
CENDL3.2 Threshold 2.3296 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^6
10^3
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
34-Se-78

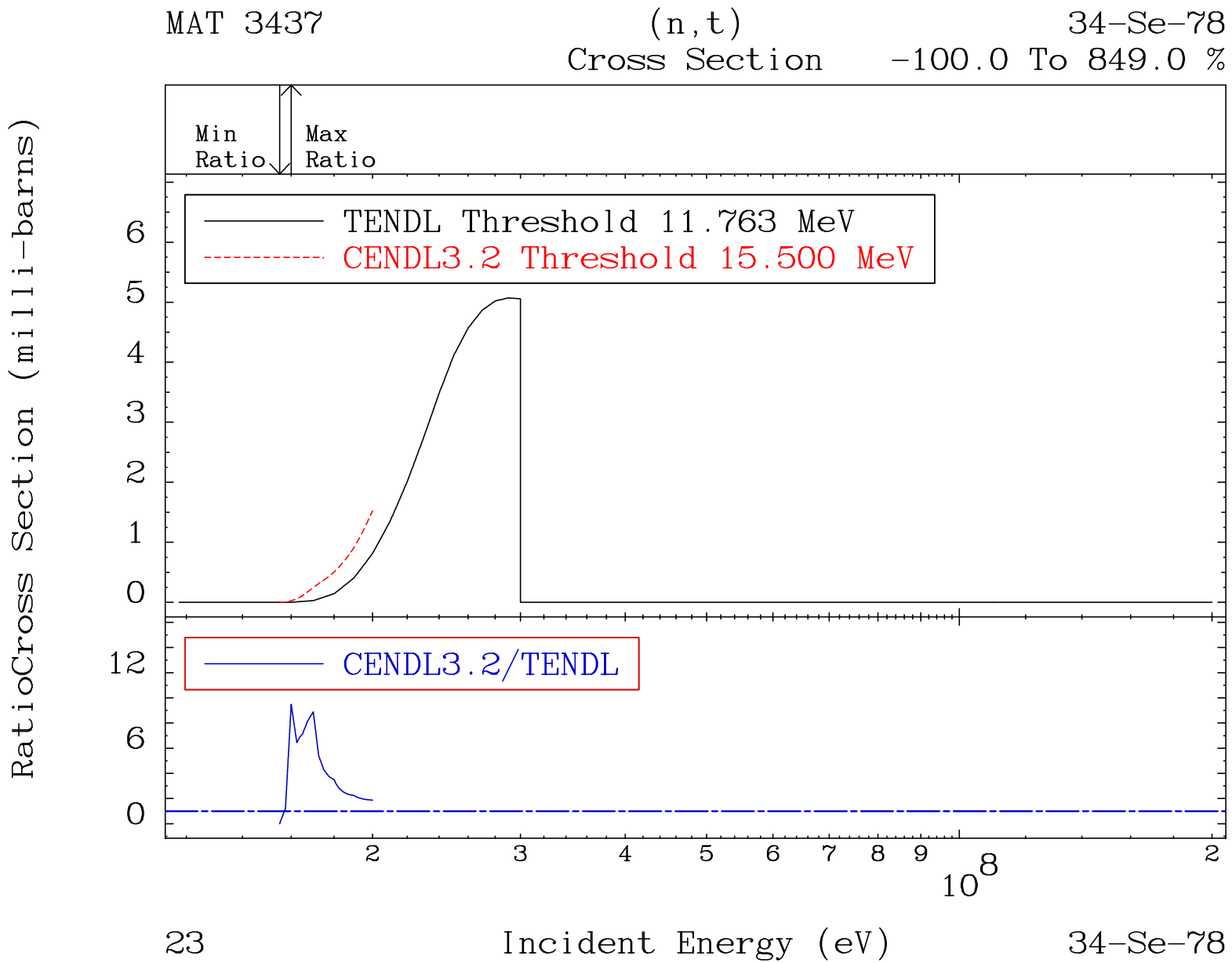

MAT 3437
MT= 61 (n,n') Level
34-Se-78
Cross Section
-37.19 To 21.79 %
Max Ratio
Min Ratio
TENDL Threshold 2.3575 MeV
CENDL3.2 Threshold 2.3575 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
80
40
0
1.2
0.8
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
34-Se-78

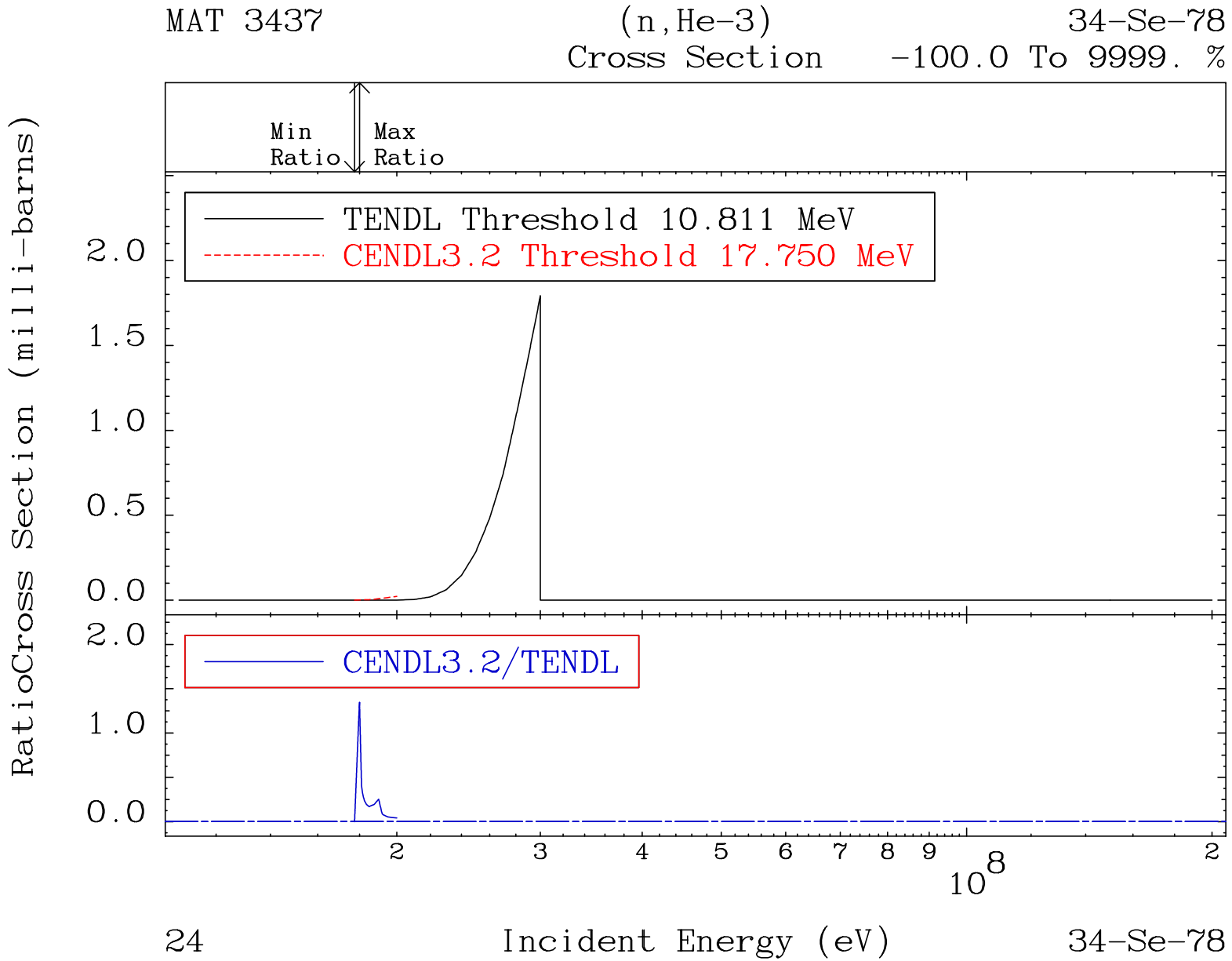

MAT 3437
(n,n') Continuum
Cross Section
34-Se-78
-18.22 To 2260. %
Max Ratio
Min Ratio
TENDL Threshold 2.9356 MeV
CENDL3.2 Threshold 2.7000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
10^1
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
34-Se-78

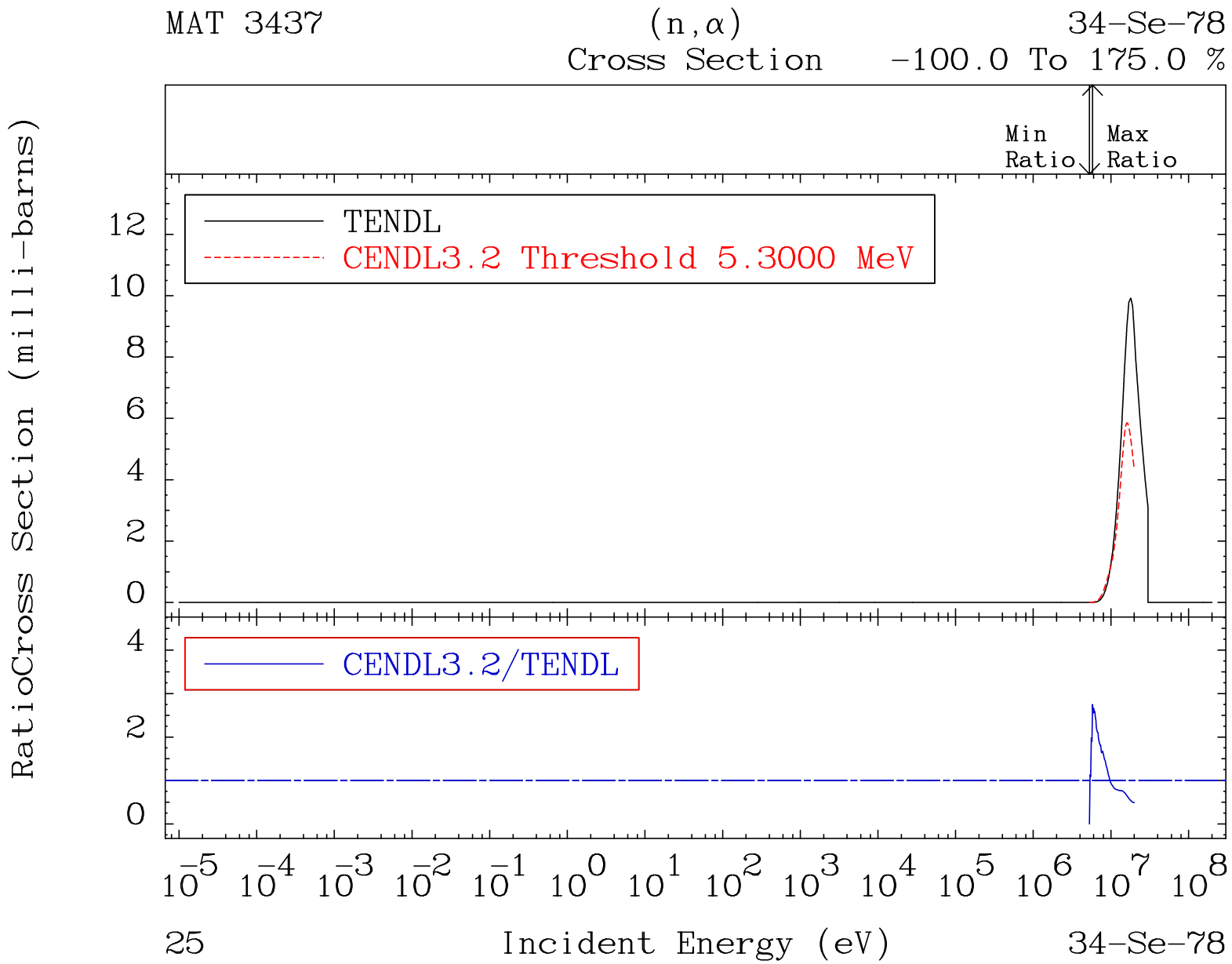

MAT 3437
(n,γ)
34-Se-78
Cross Section
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
20
34-Se-78

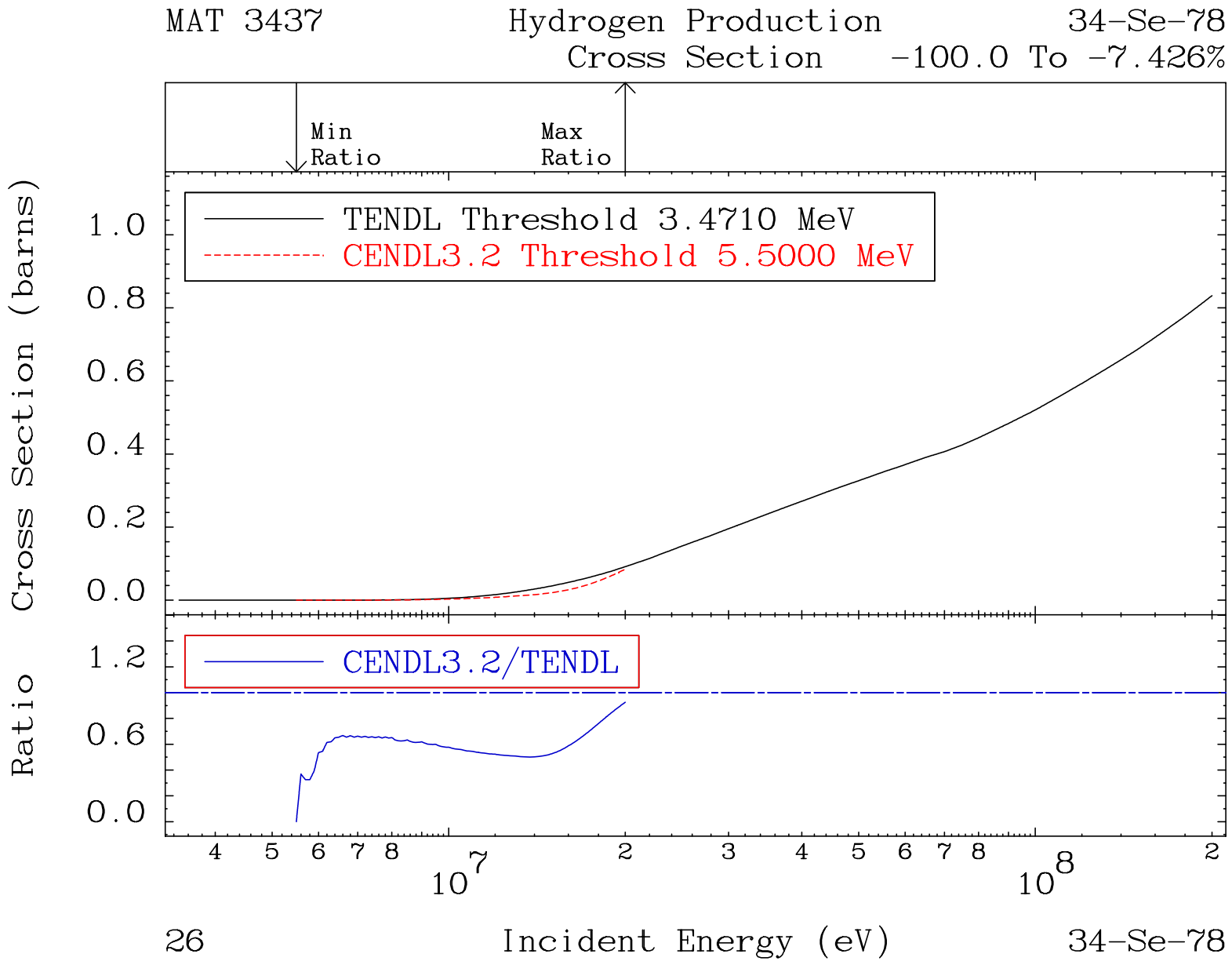

MAT 3437
(n,p)
34-Se-78
Cross Section
-100.0 To -33.22%
Min Ratio
Max Ratio
TENDL Threshold 3.4710 MeV
CENDL3.2 Threshold 5.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.8
0.4
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
34-Se-78

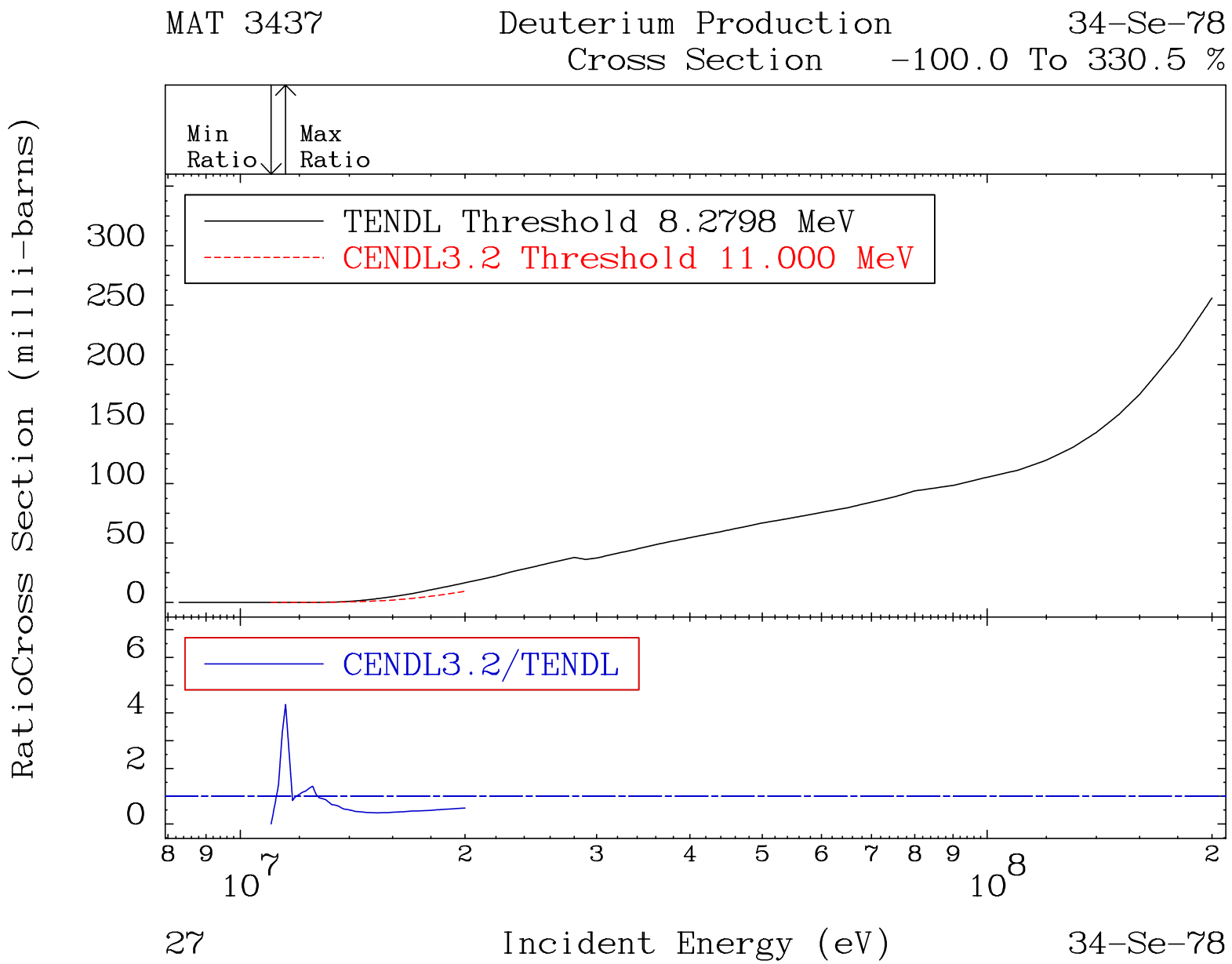

MAT 3437
(n,d)
34-Se-78
Cross Section
-100.0 To 330.5 %
Min Ratio
Max Ratio
TENDL Threshold 8.2798 MeV
CENDL3.2 Threshold 11.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
6
4
2
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
34-Se-78

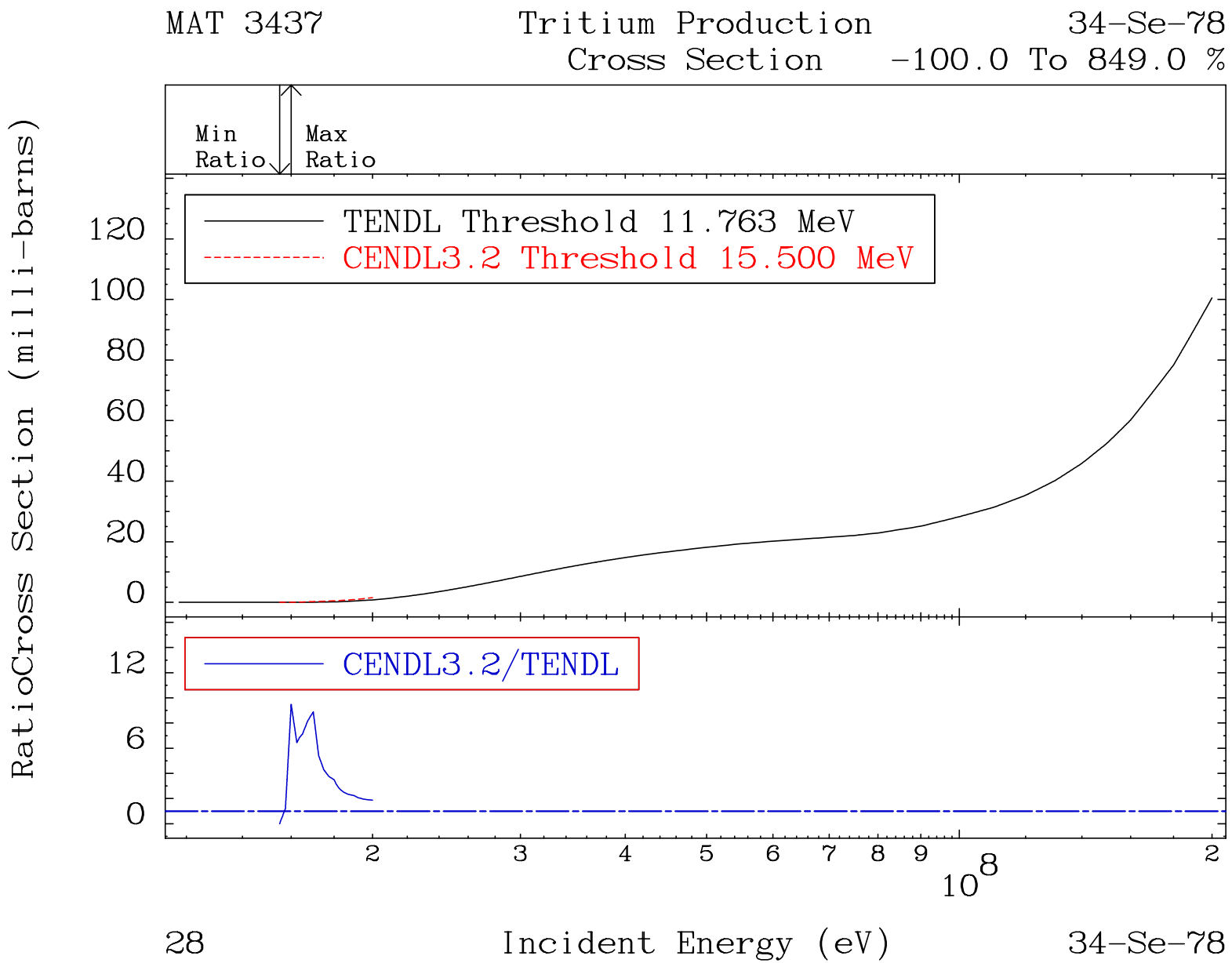

MAT 3437
(n,t)
34-Se-78
Cross Section
-100.0 To 849.0 %
Min Ratio
Max Ratio
TENDL Threshold 11.763 MeV
CENDL3.2 Threshold 15.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
6
12
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
34-Se-78

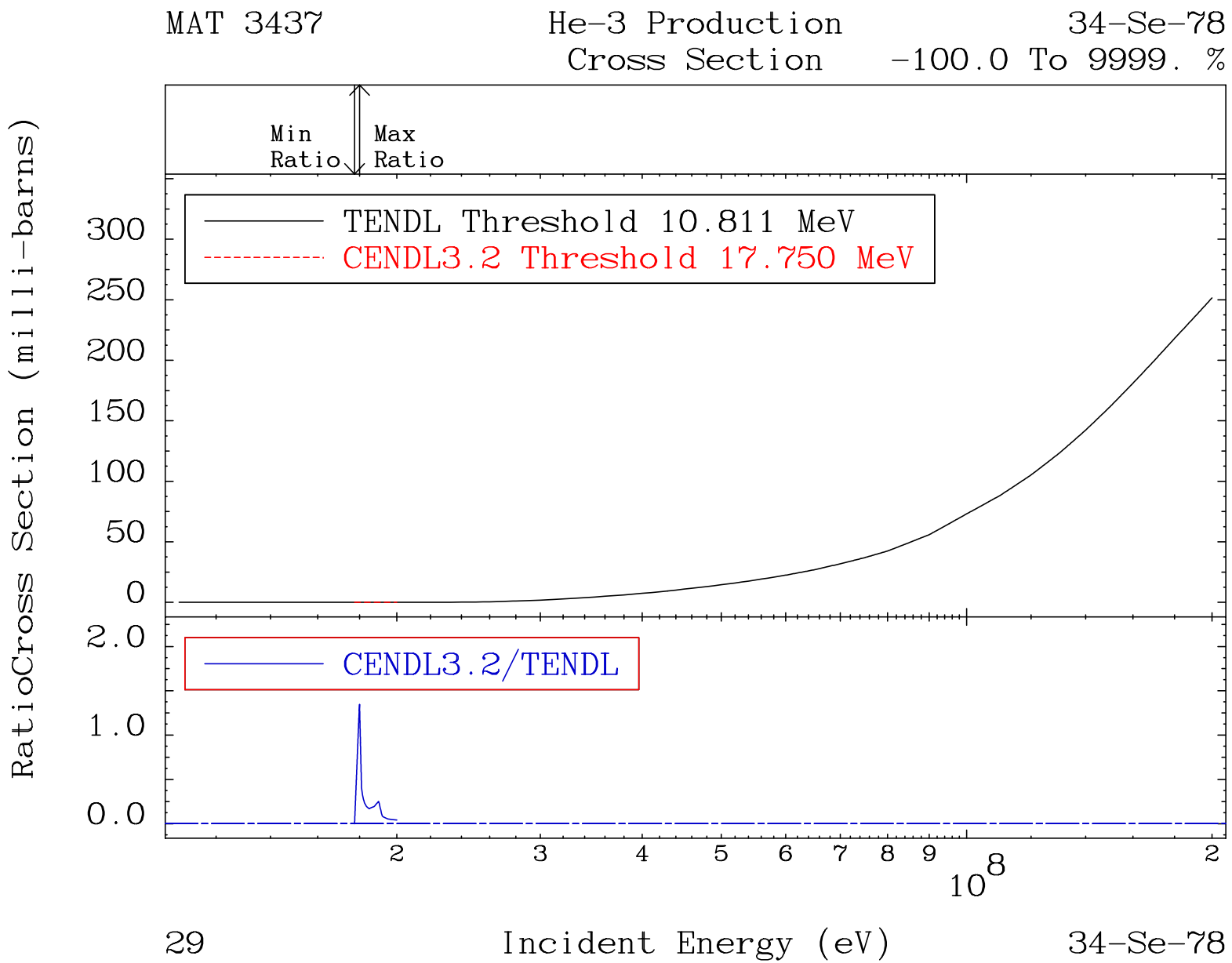

MAT 3437
(n,He-3)
34-Se-78
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.811 MeV
CENDL3.2 Threshold 17.750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
24
Incident Energy (eV)
34-Se-78

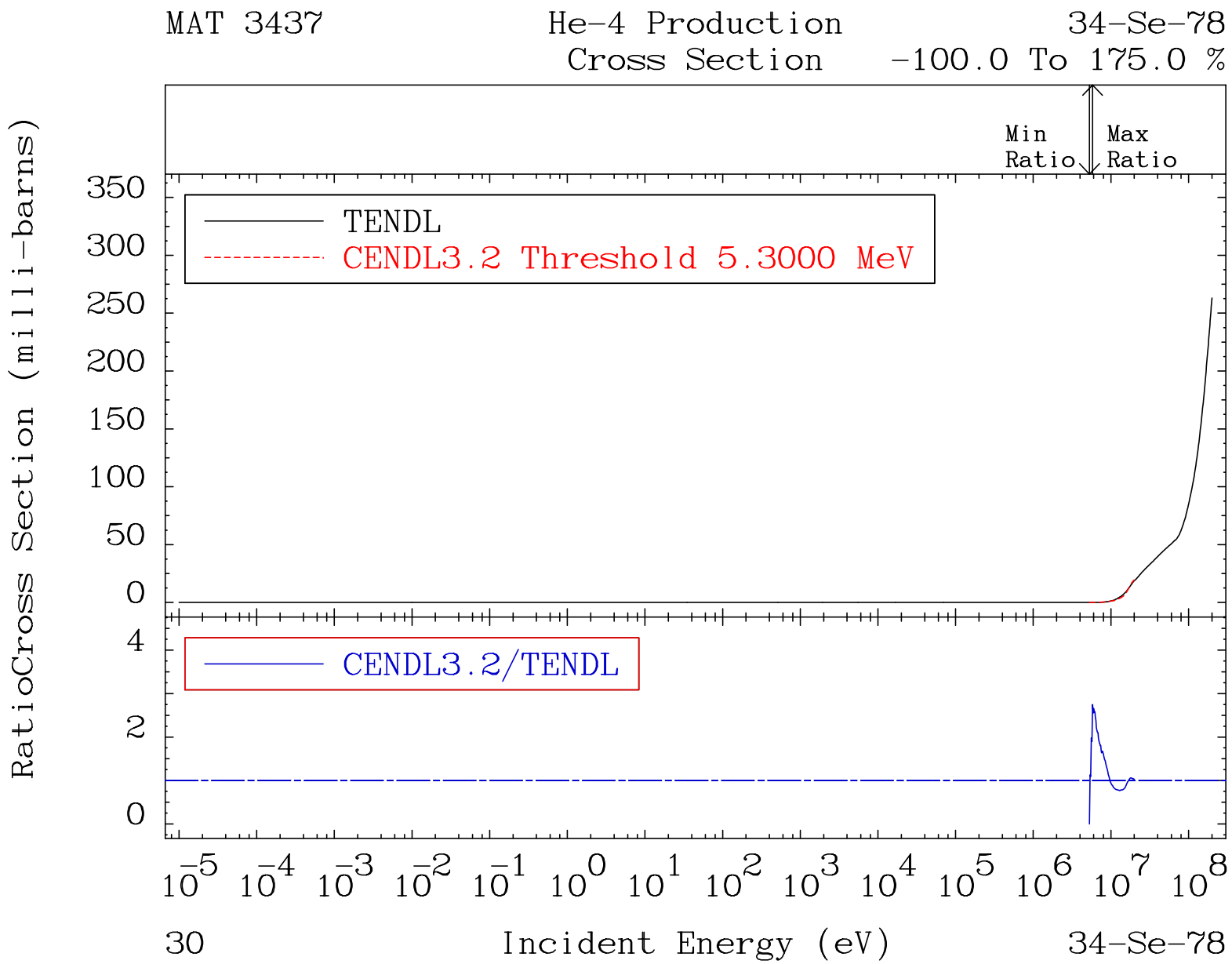

MAT 3437
(n,α)
Cross Section
34-Se-78
-100.0 To 175.0 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 5.3000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
34-Se-78

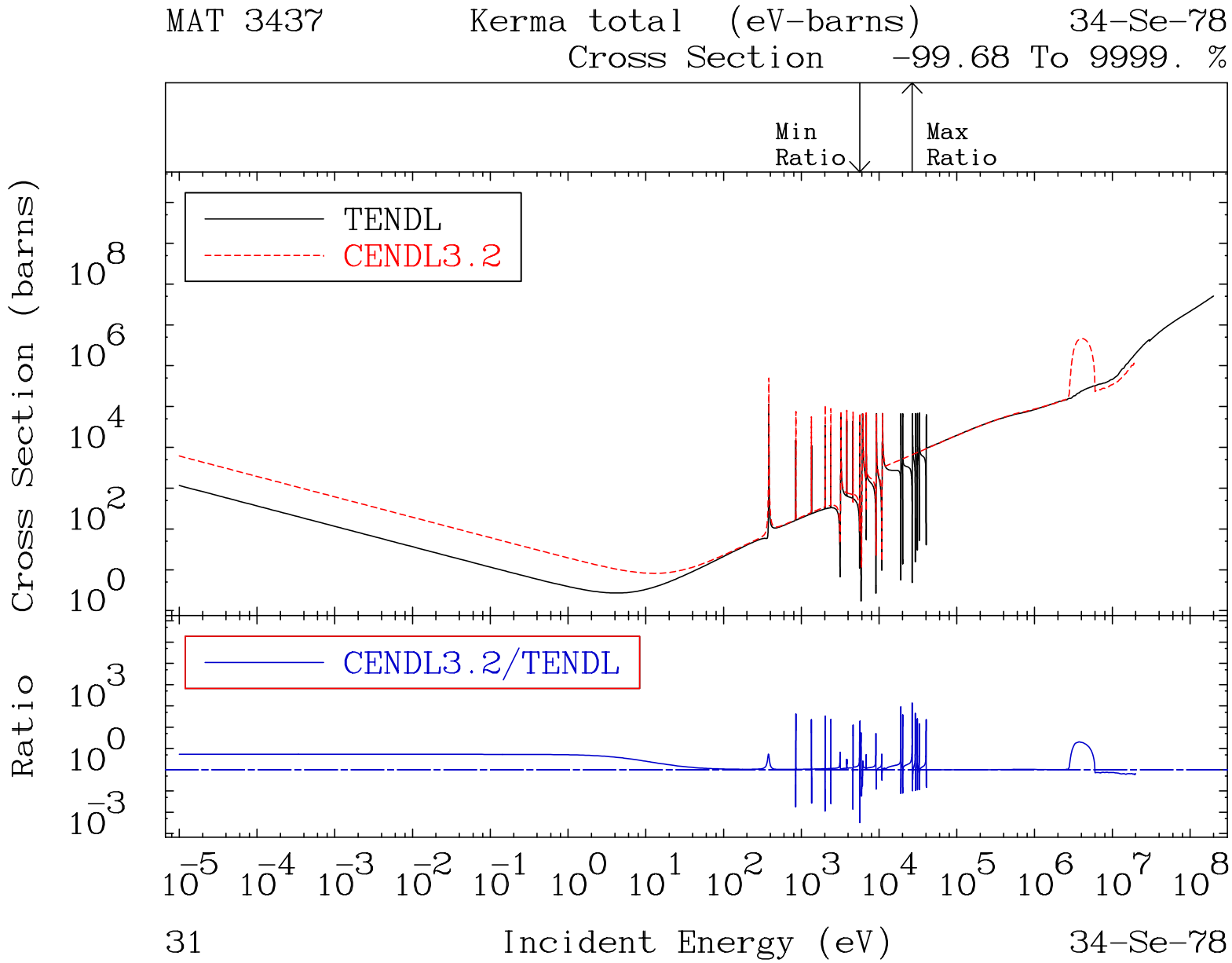

MAT 3437
Hydrogen Production
34-Se-78
Cross Section
-100.0 To -7.426%
Min Ratio
Max Ratio
TENDL Threshold 3.4710 MeV
CENDL3.2 Threshold 5.5000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
26
34-Se-78

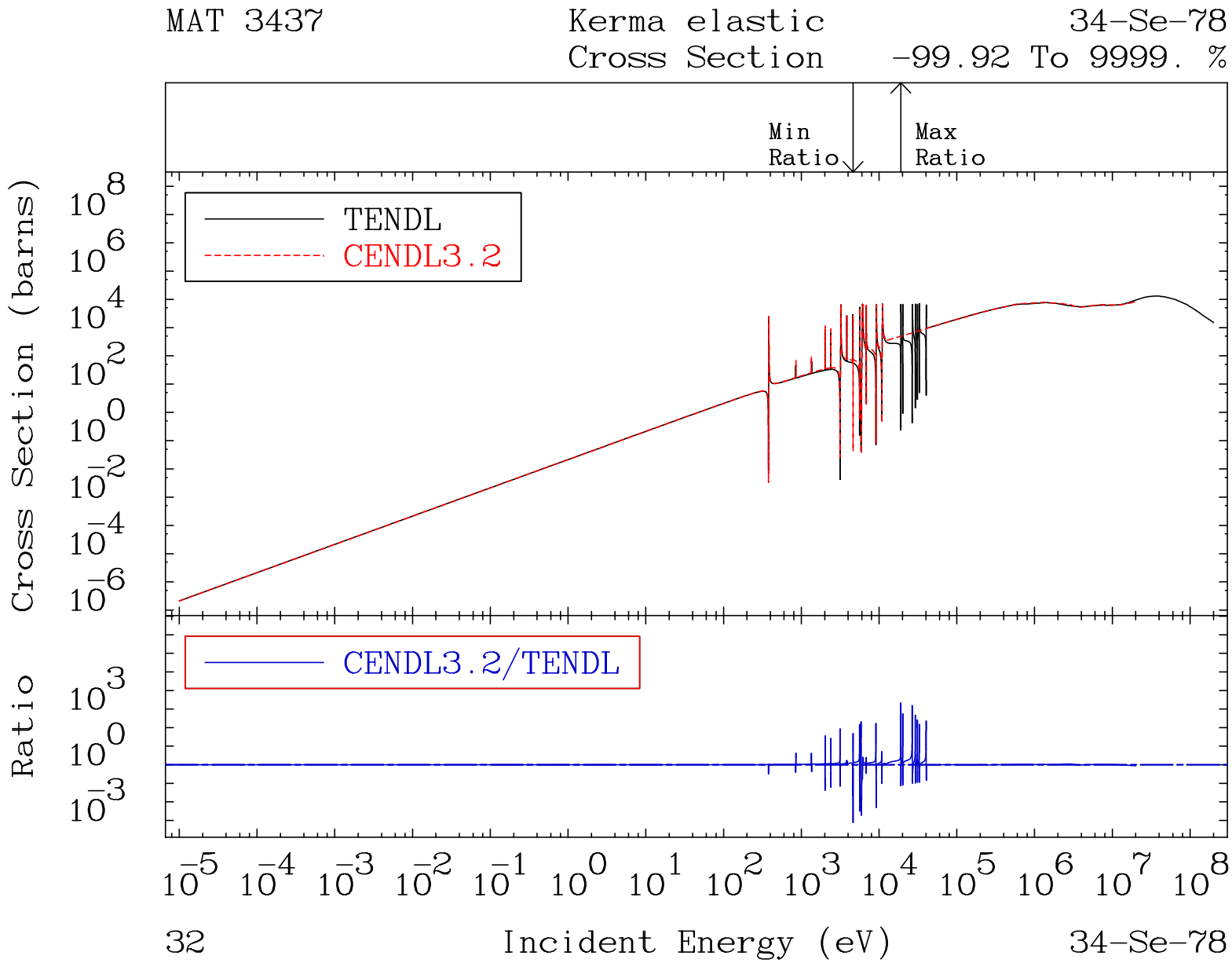

MAT 3437
Deuterium Production
34-Se-78
Cross Section
-100.0 To 330.5 %
Min Ratio
Max Ratio
TENDL Threshold 8.2798 MeV
CENDL3.2 Threshold 11.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
6
4
2
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
34-Se-78

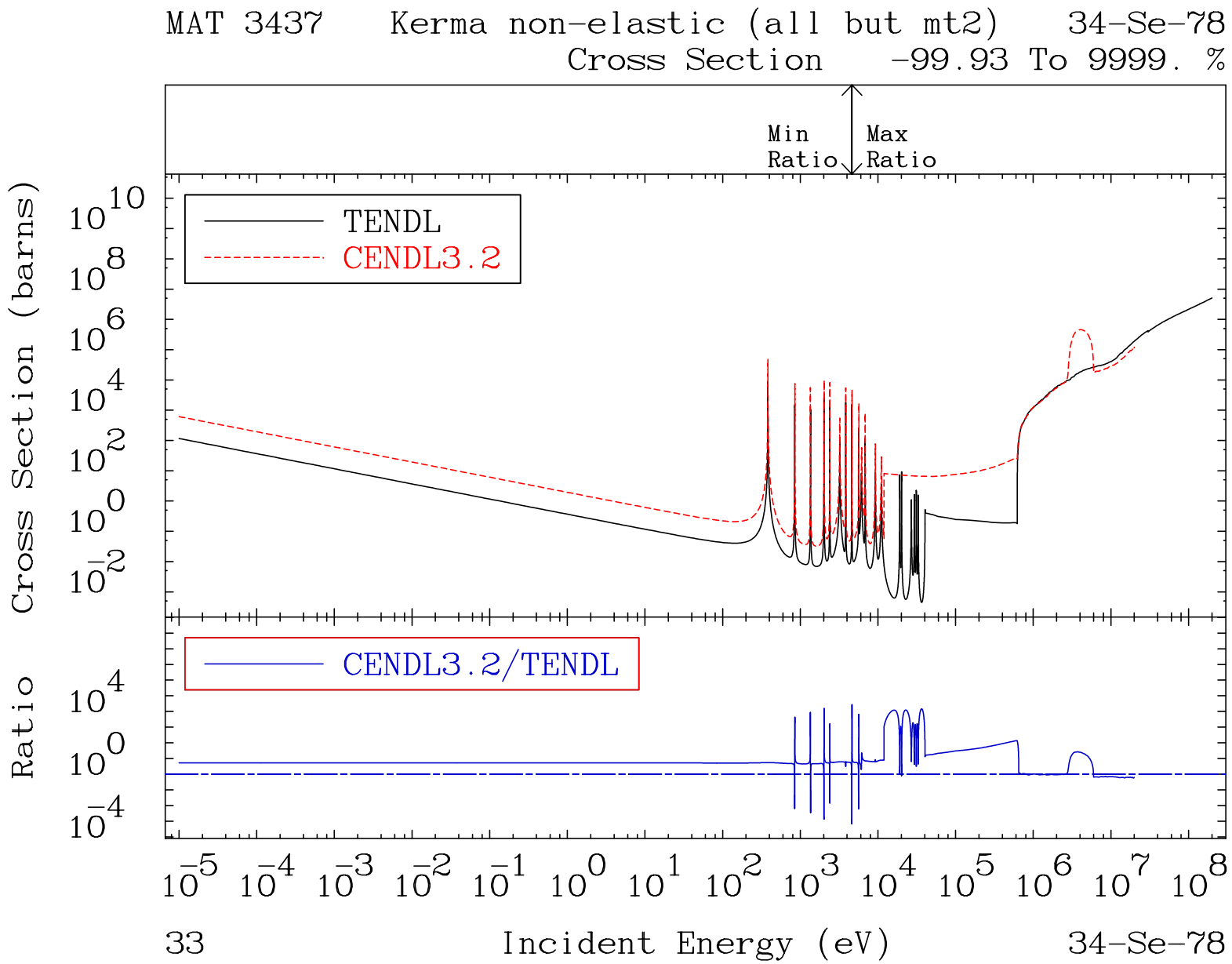

MAT 3437
Tritium Production
34-Se-78
Cross Section
-100.0 To 849.0 %
Min Ratio
Max Ratio
TENDL Threshold 11.763 MeV
CENDL3.2 Threshold 15.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
12
6
0
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
34-Se-78

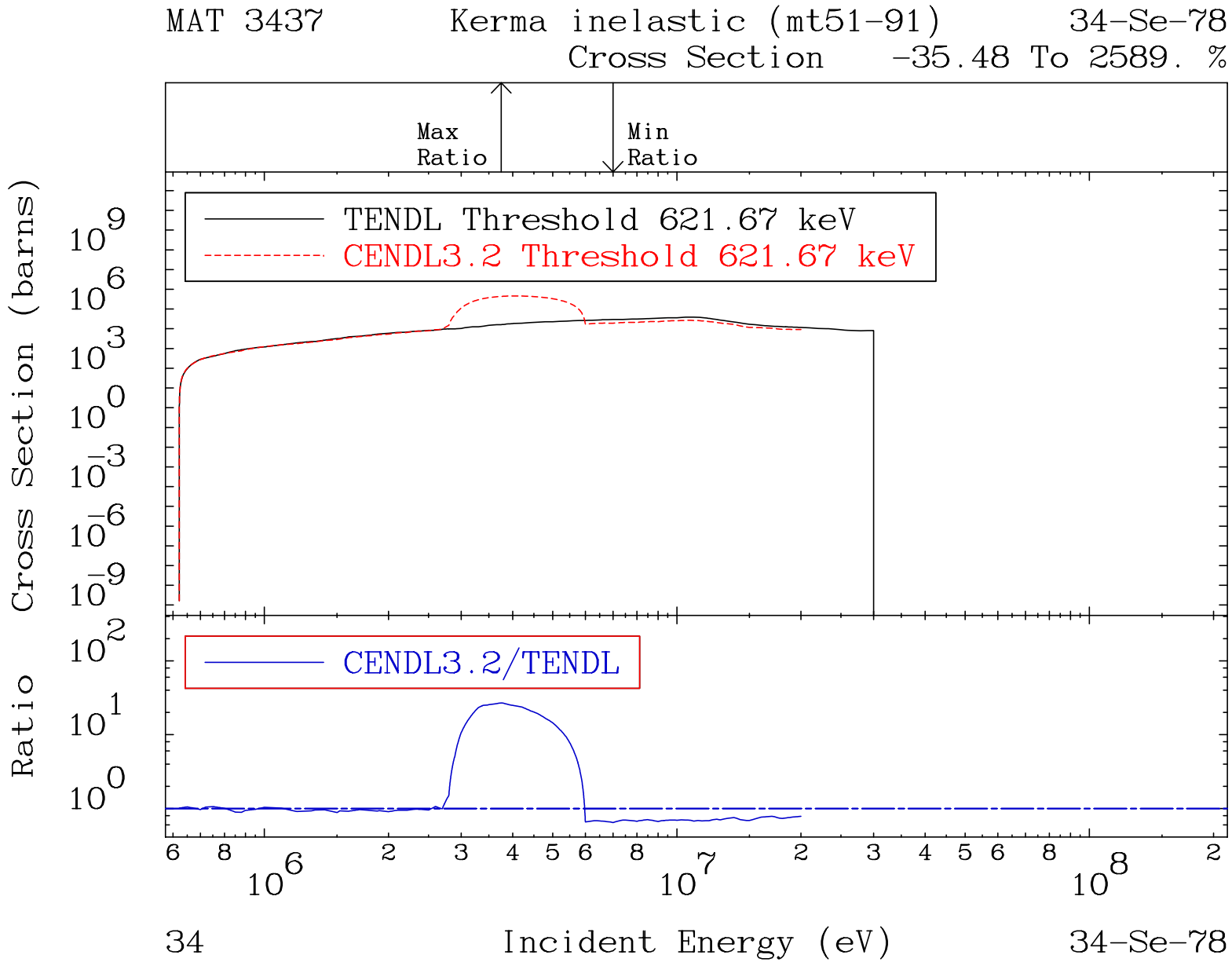

MAT 3437
He-3 Production
34-Se-78
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.811 MeV
CENDL3.2 Threshold 17.750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
29
Incident Energy (eV)
34-Se-78

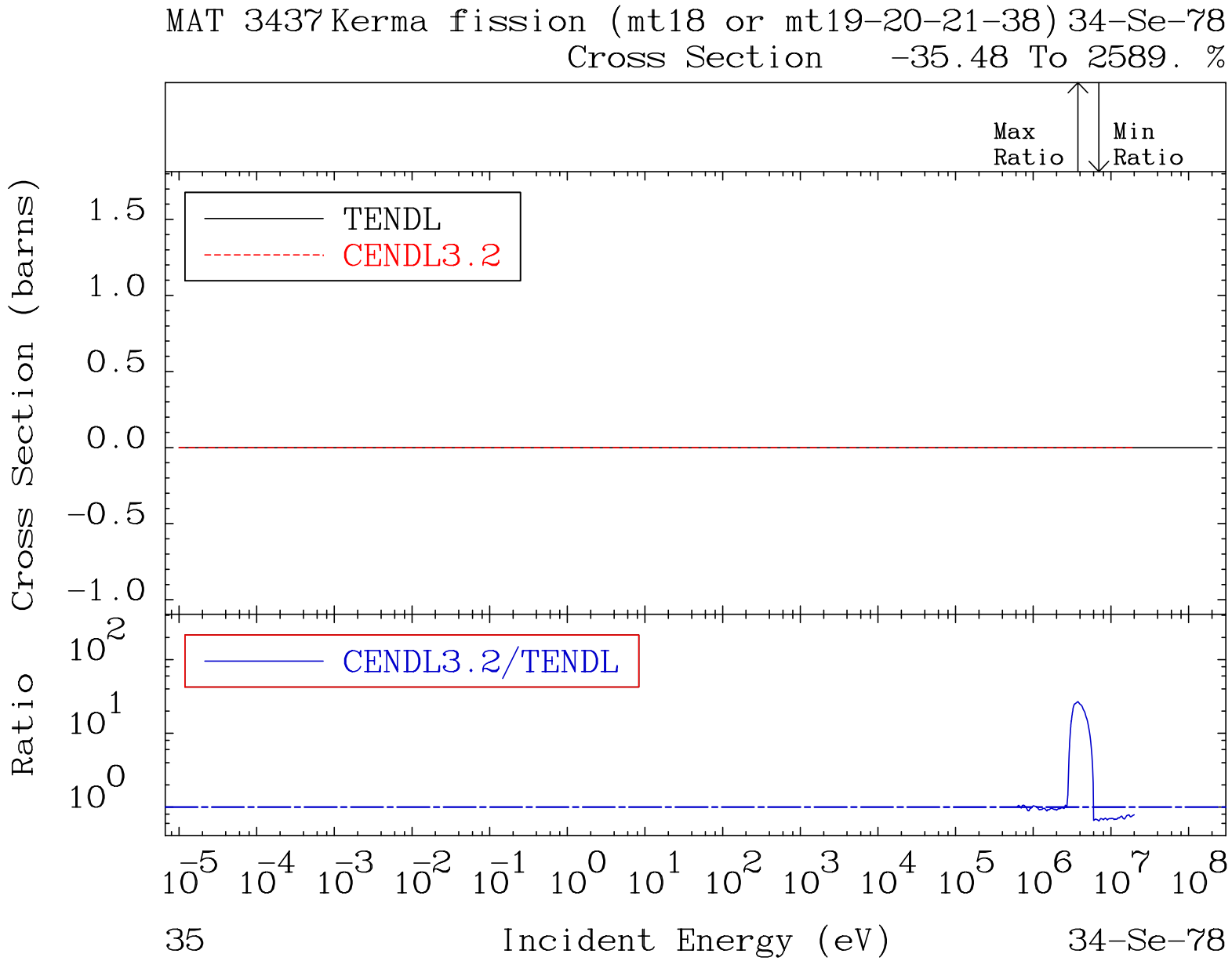

MAT 3437
He-4 Production
Cross Section
34-Se-78
-100.0 To 175.0 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 5.3000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
30
Incident Energy (eV)
34-Se-78

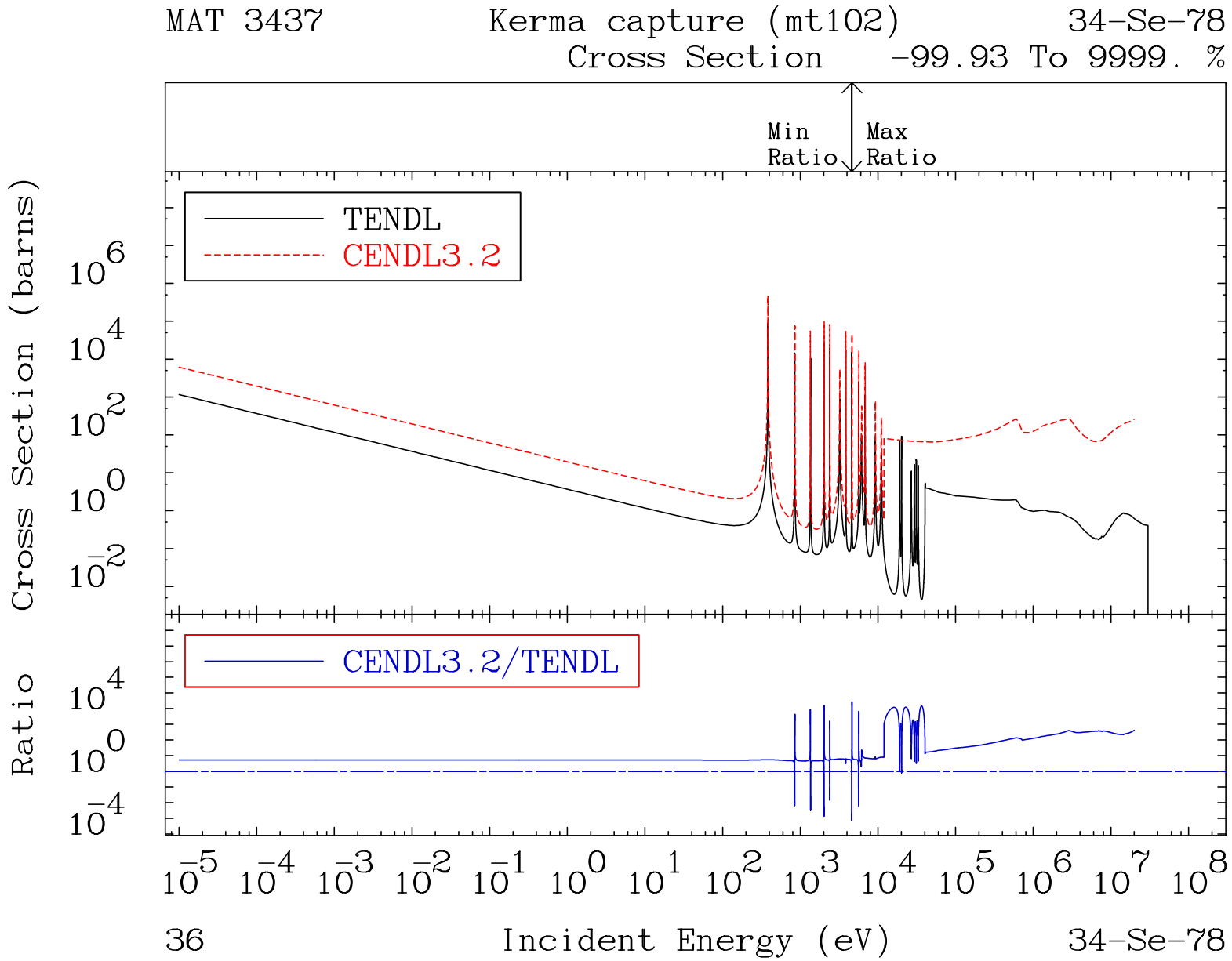

MAT 3437
Kerma total (eV-barns)
34-Se-78
Cross Section -99.68 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
34-Se-78

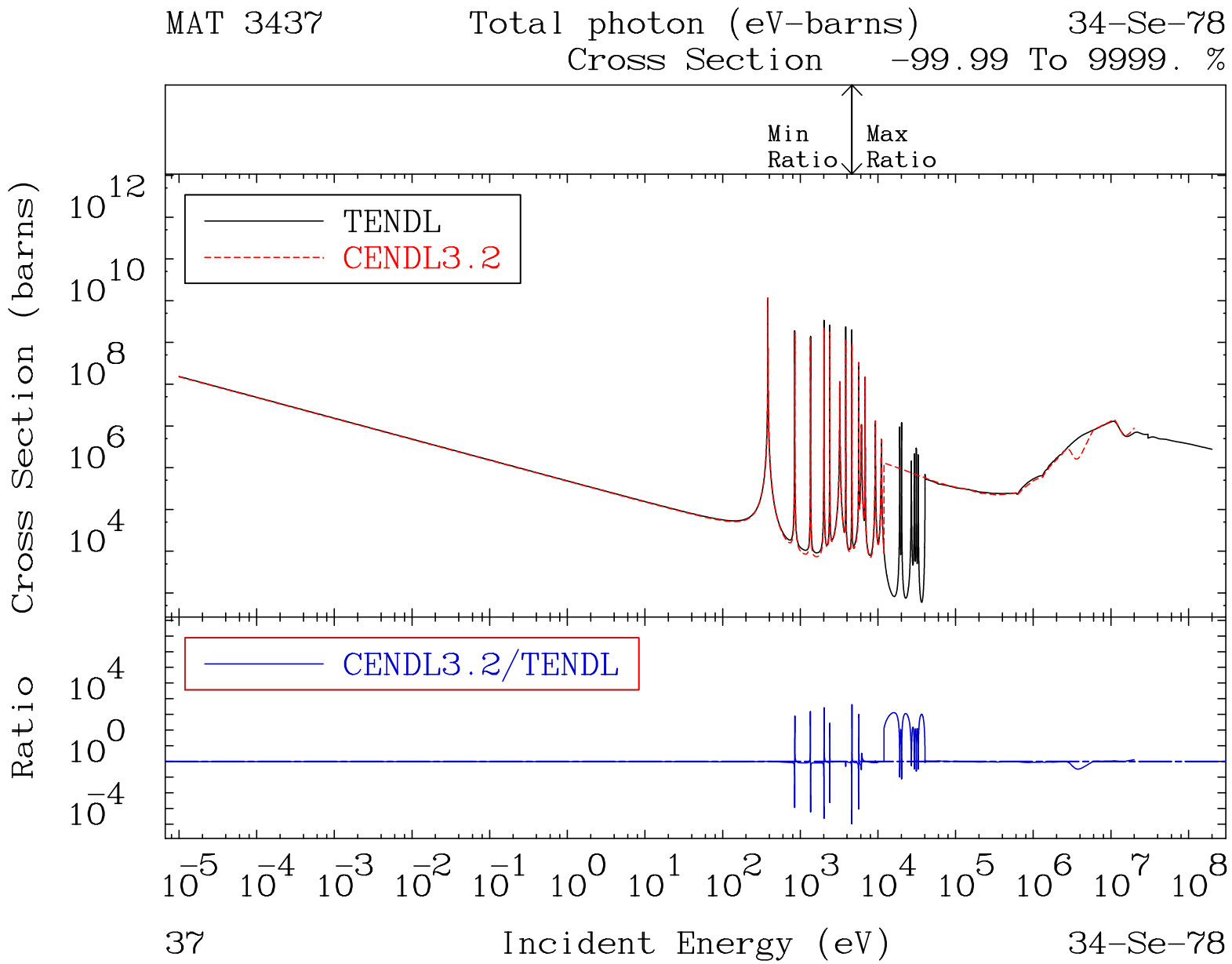

MAT 3437
Kerma elastic
Cross Section
34-Se-78
-99.92 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
34-Se-78

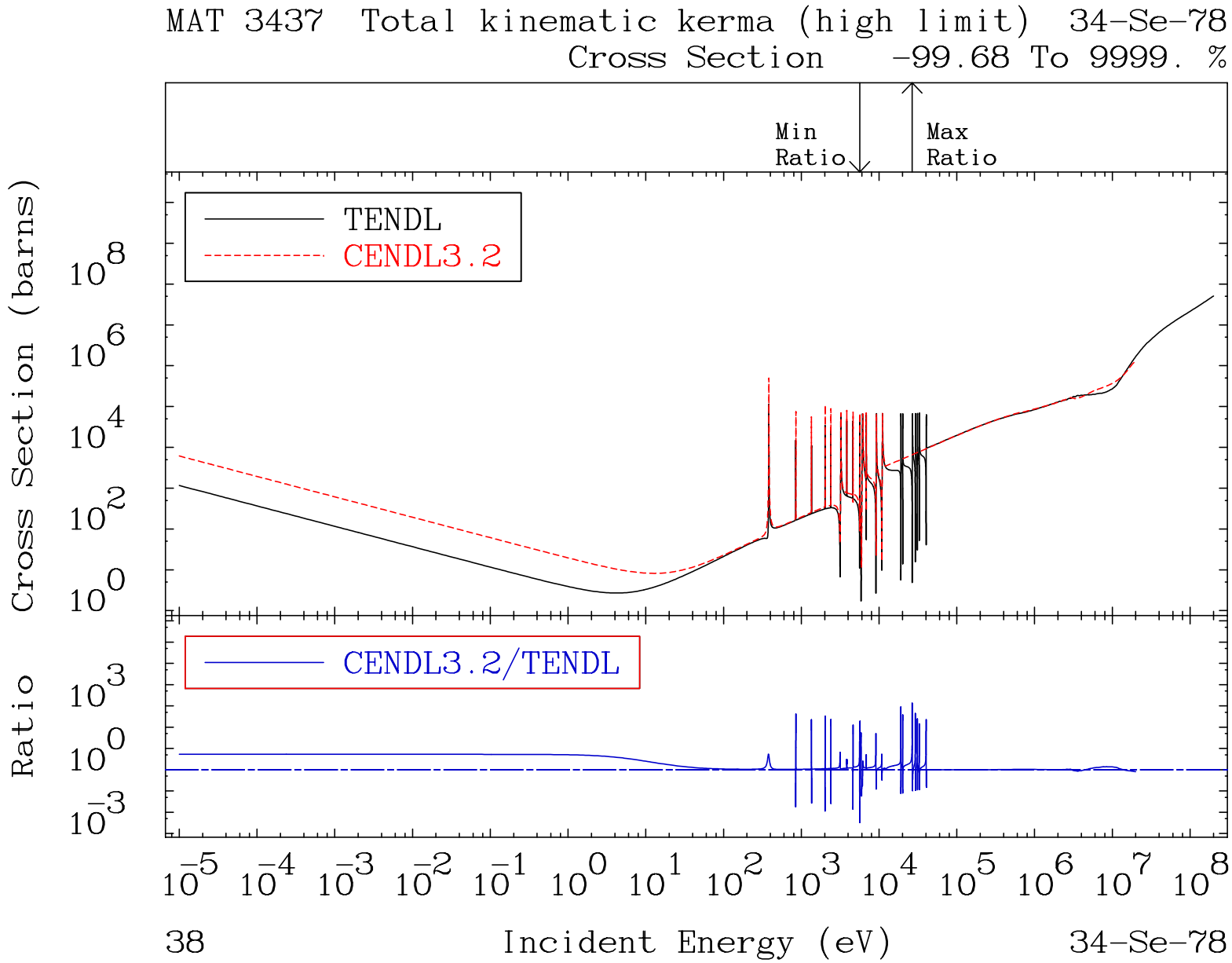

MAT 3437 Kerma non-elastic (all but mt2) 34-Se-78
Cross Section -99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
34-Se-78

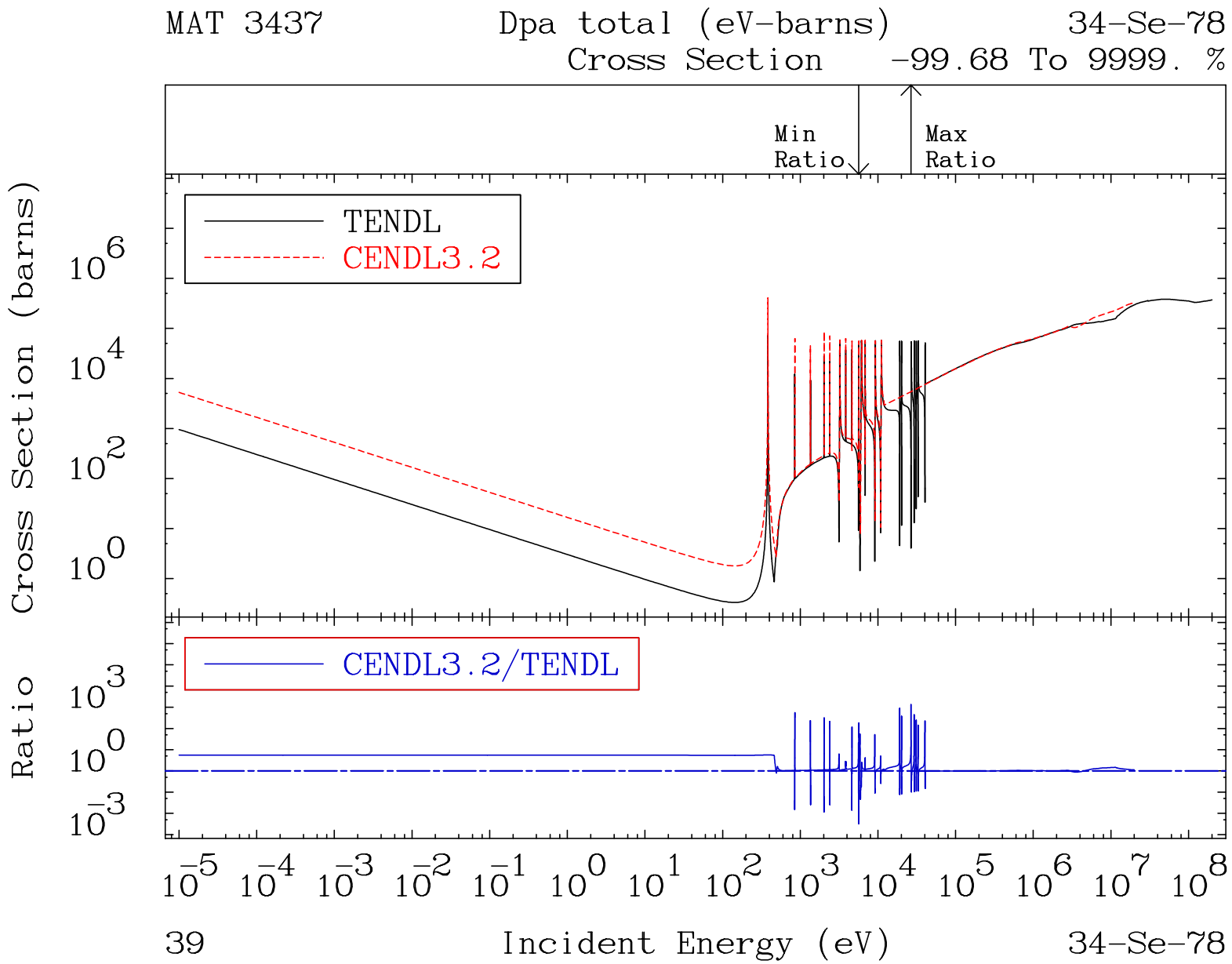

MAT 3437
Kerma inelastic (mt51-91)
34-Se-78
Cross Section -35.48 To 2589. %
Max Ratio
Min Ratio
TENDL Threshold 621.67 keV
CENDL3.2 Threshold 621.67 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
34-Se-78

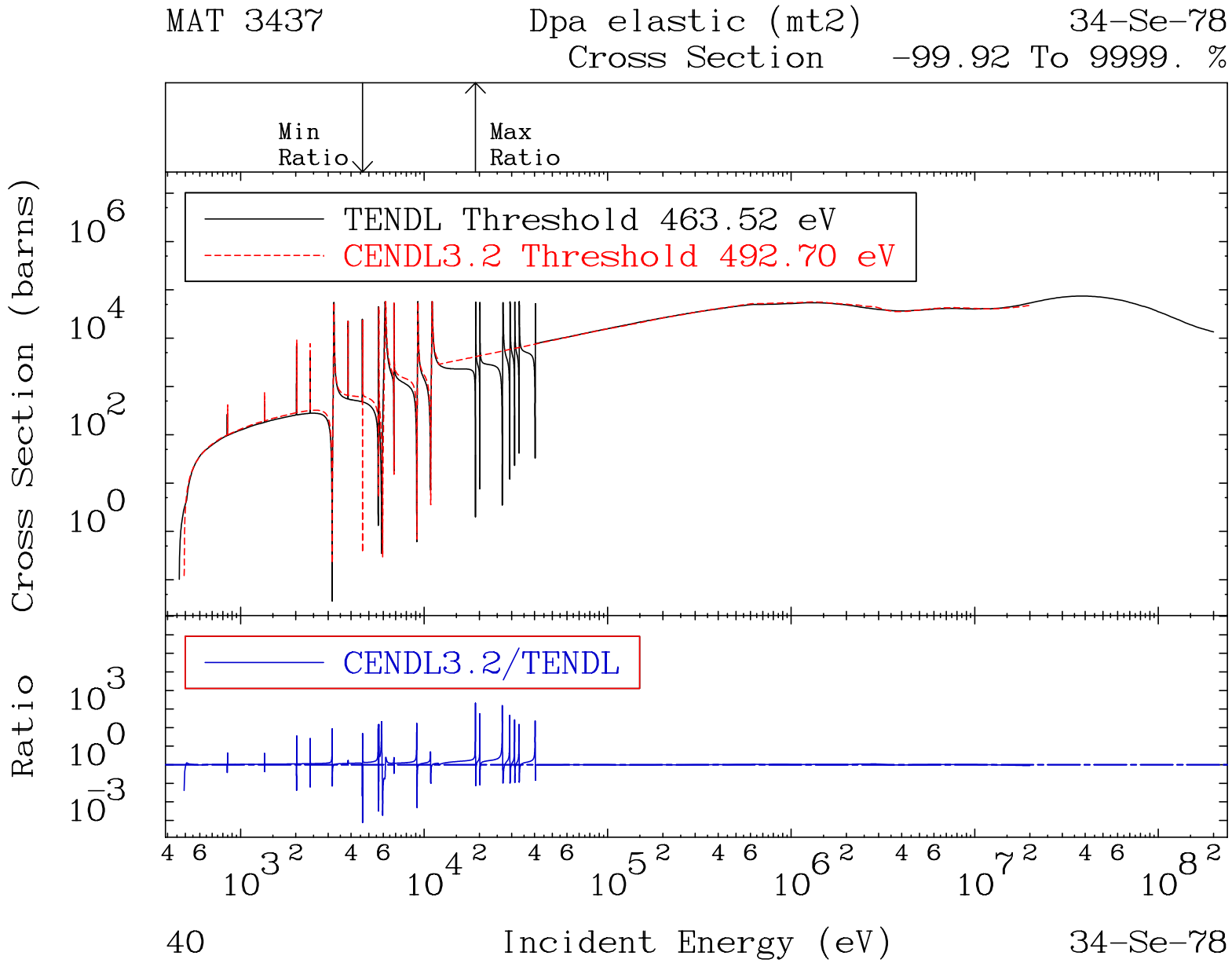

MAT 3437 Kerma fission (mt18 or mt19-20-21-38) 34-Se-78
Cross Section -35.48 To 2589. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^2
10^1
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
34-Se-78

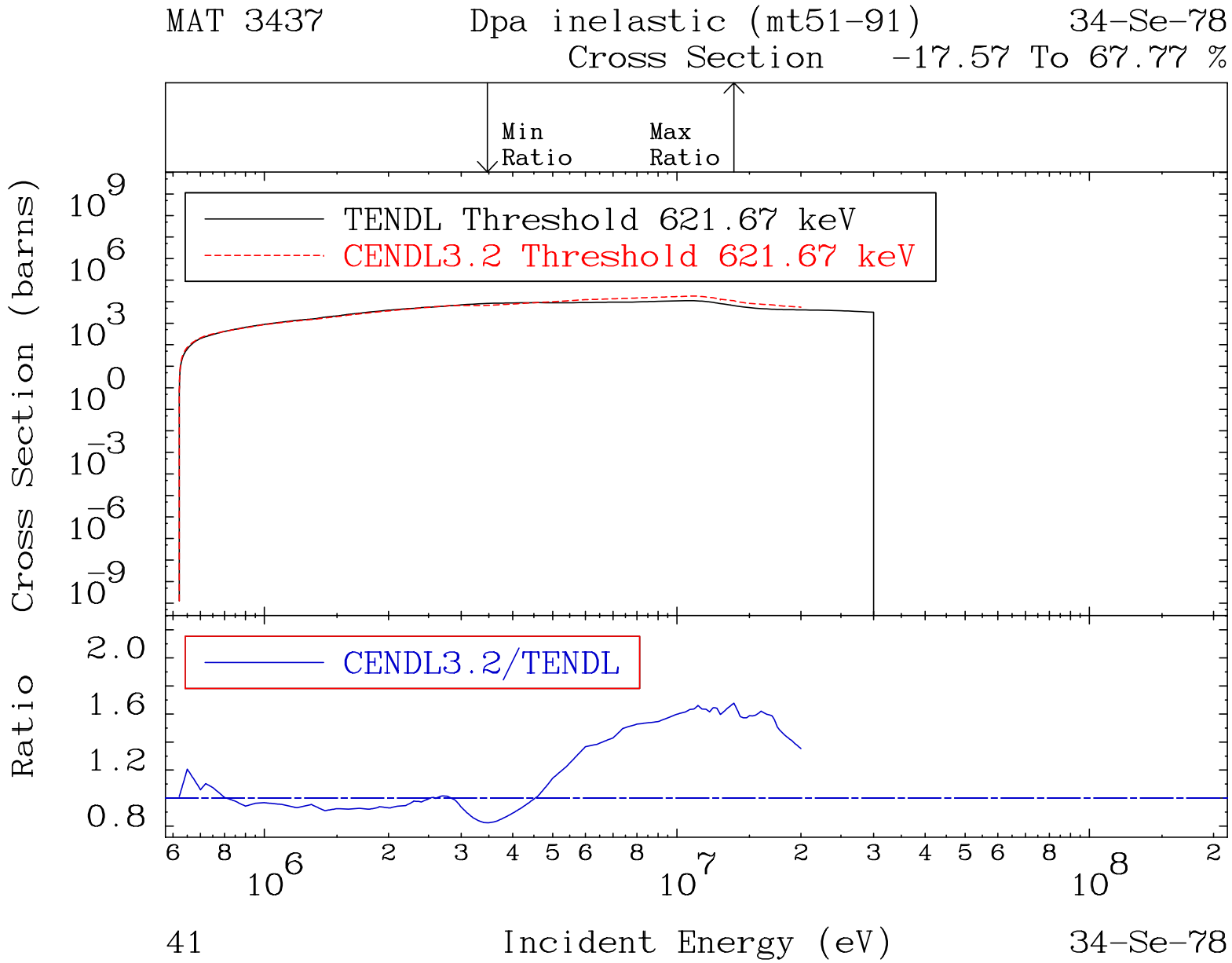

MAT 3437
Kerma capture (mt102)
34-Se-78
Cross Section -99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
36
34-Se-78

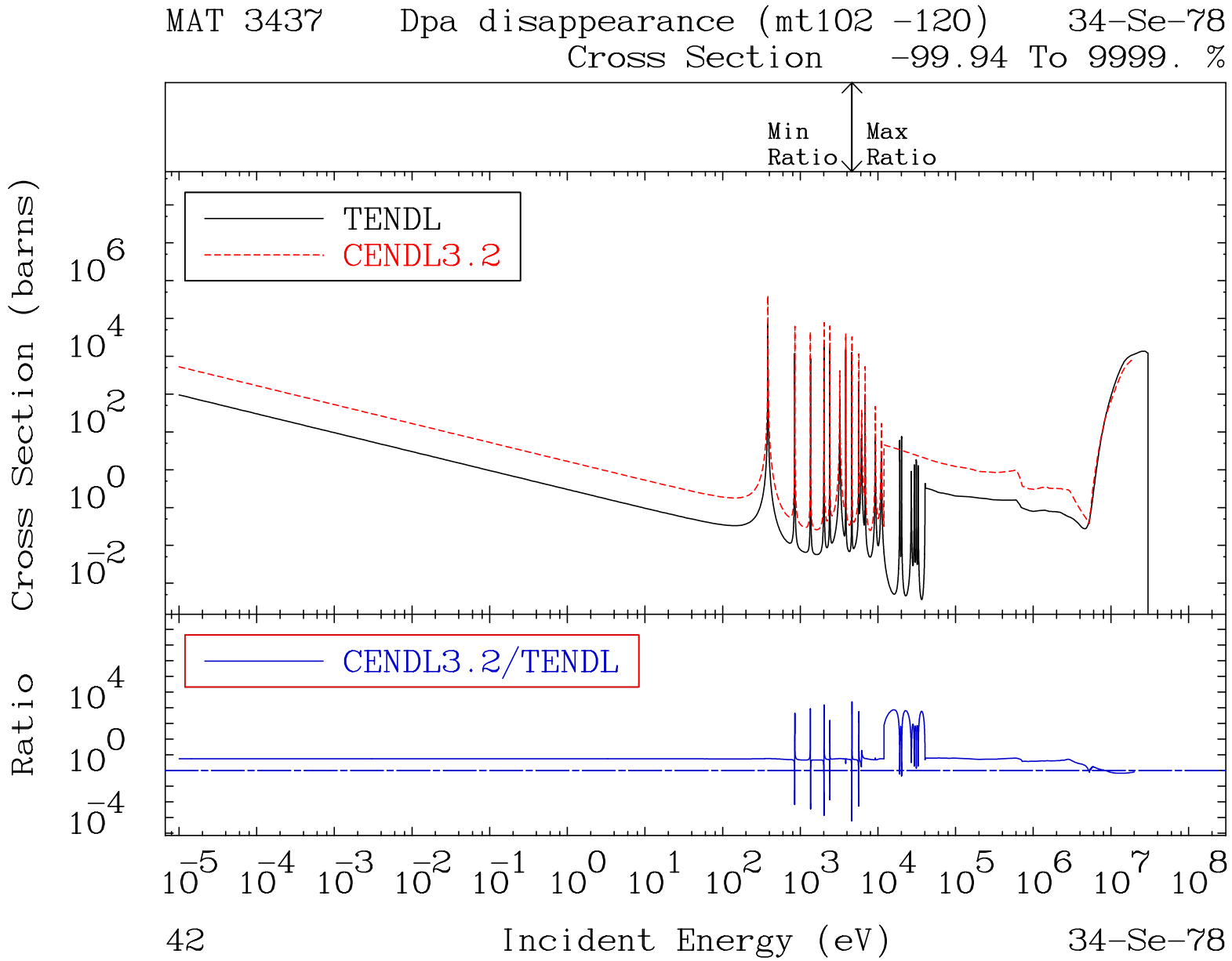

MAT 3437
Total photon (eV-barns)
34-Se-78
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
34-Se-78

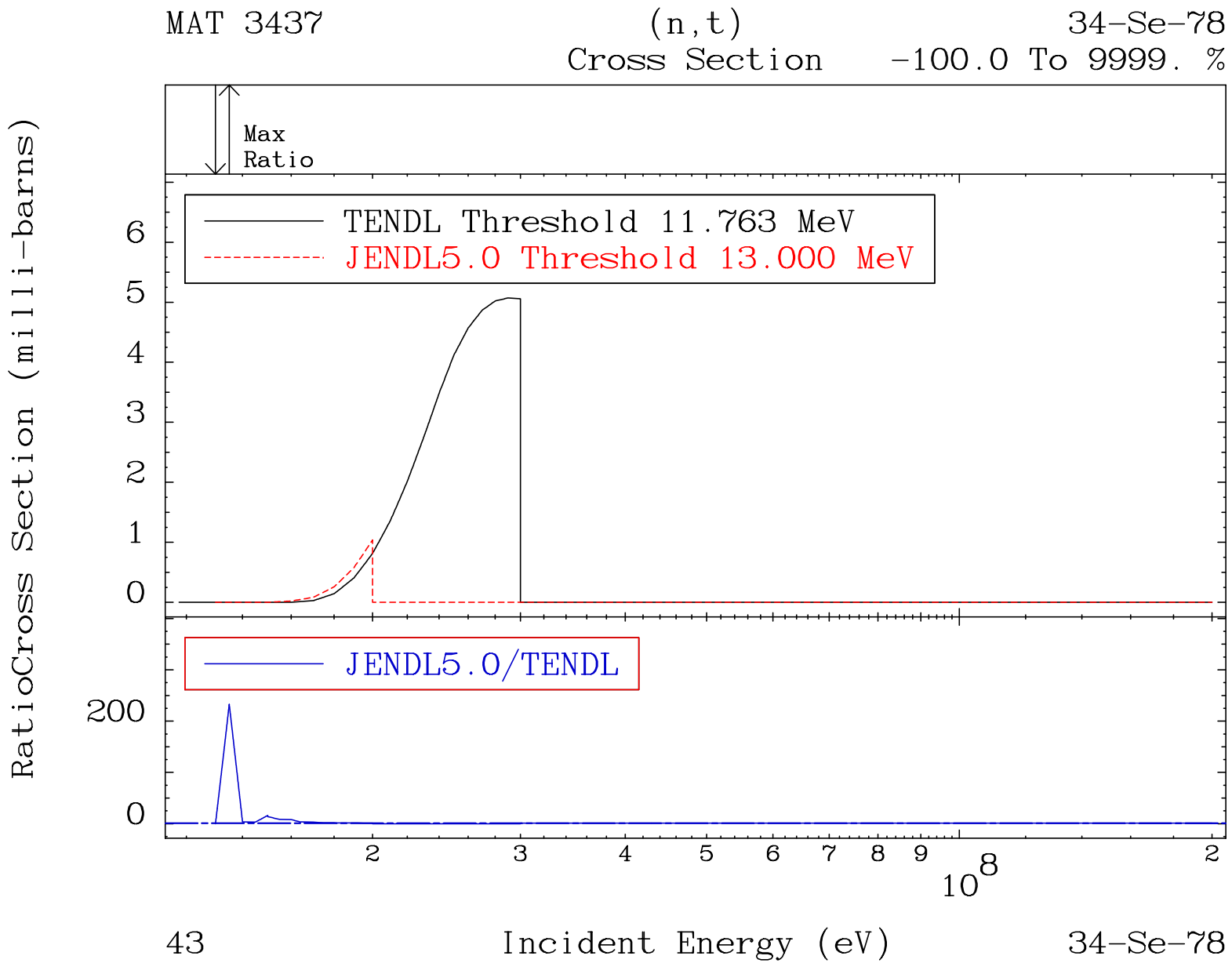

MAT 3437 Total kinematic kerma (high limit) 34-Se-78
Cross Section -99.68 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
38
34-Se-78

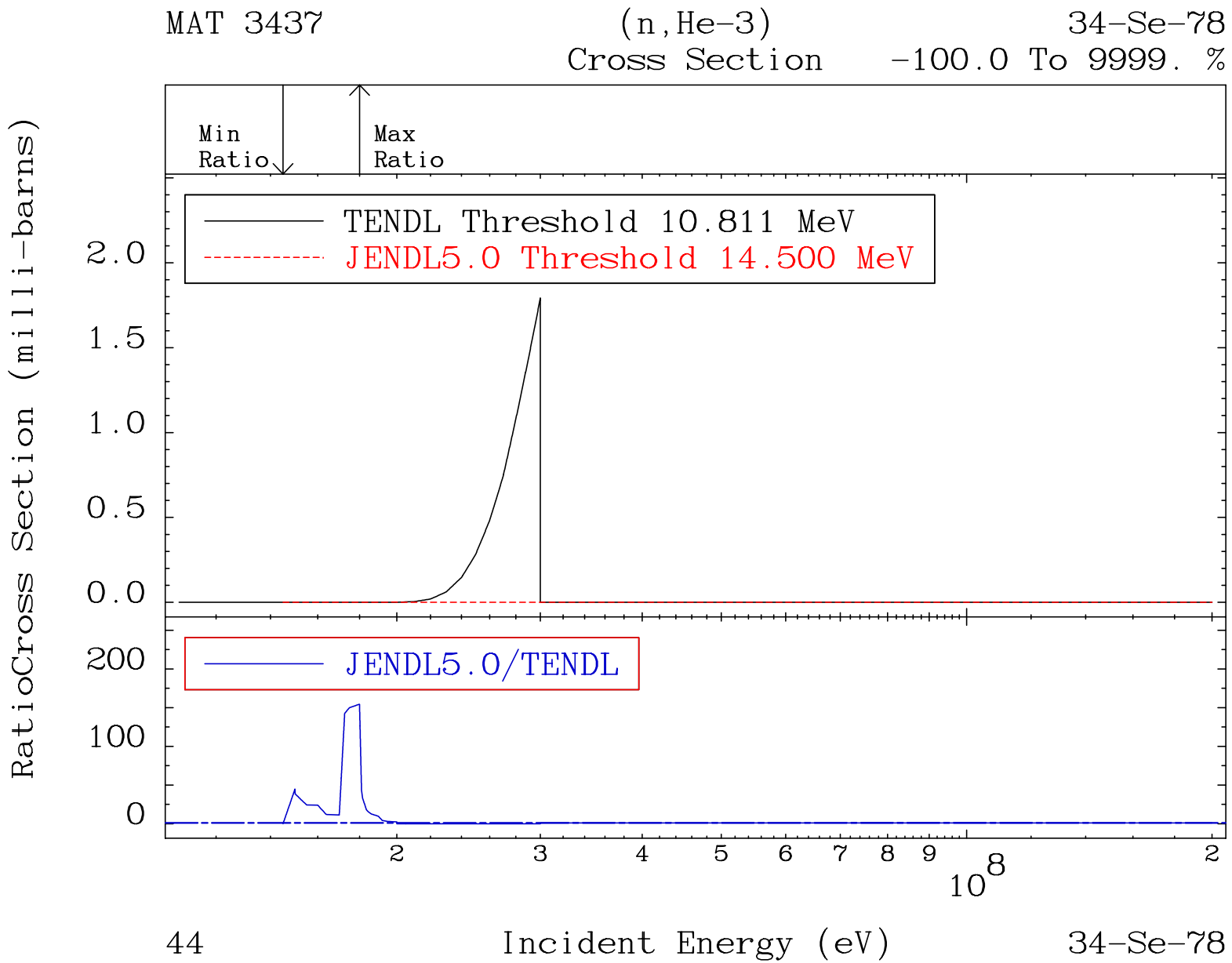

MAT 3437
Dpa total (eV-barns)
34-Se-78
Cross Section
-99.68 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
34-Se-78

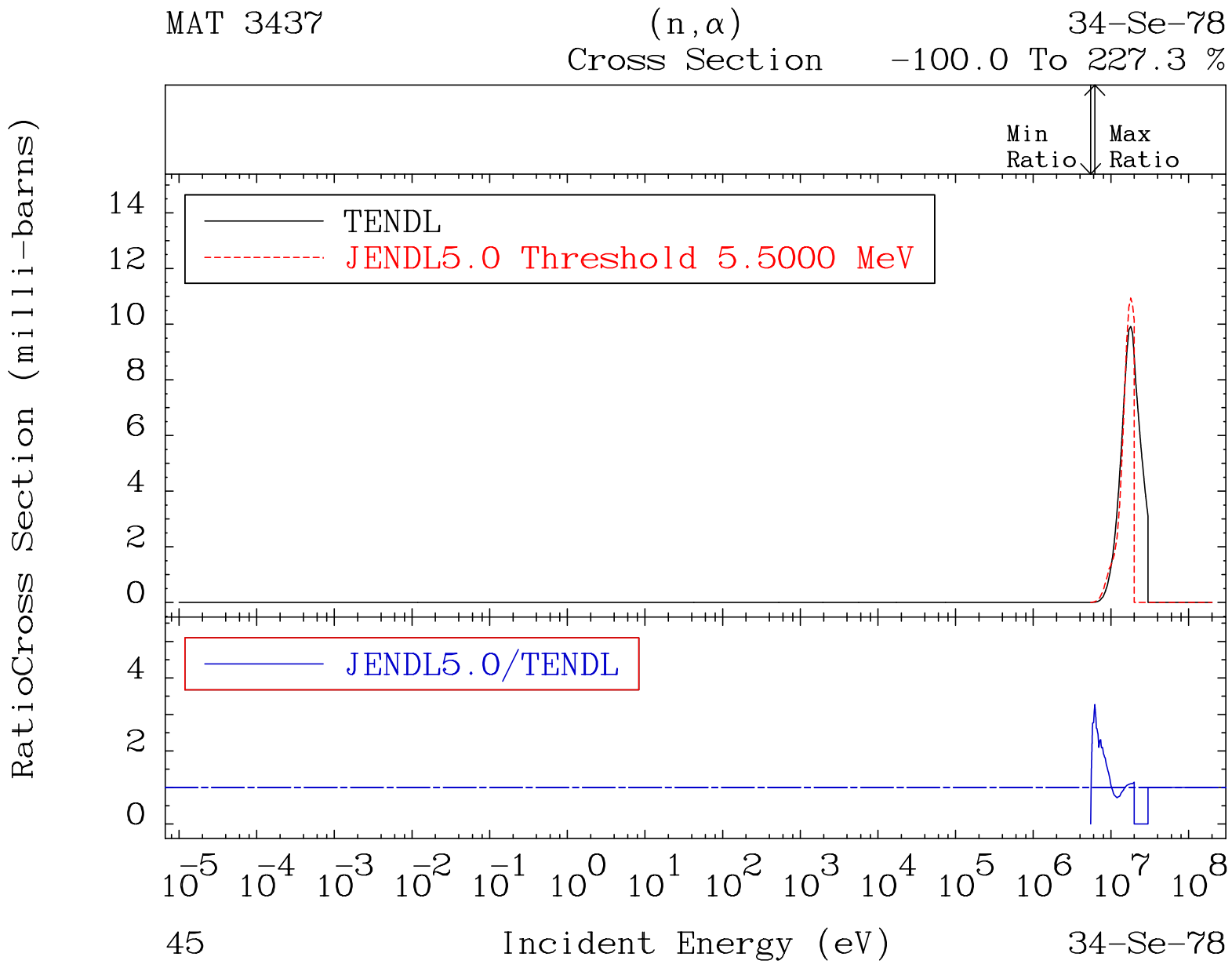

MAT 3437
Dpa elastic (mt2)
Cross Section
34-Se-78
-99.92 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 463.52 eV
CENDL3.2 Threshold 492.70 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
34-Se-78

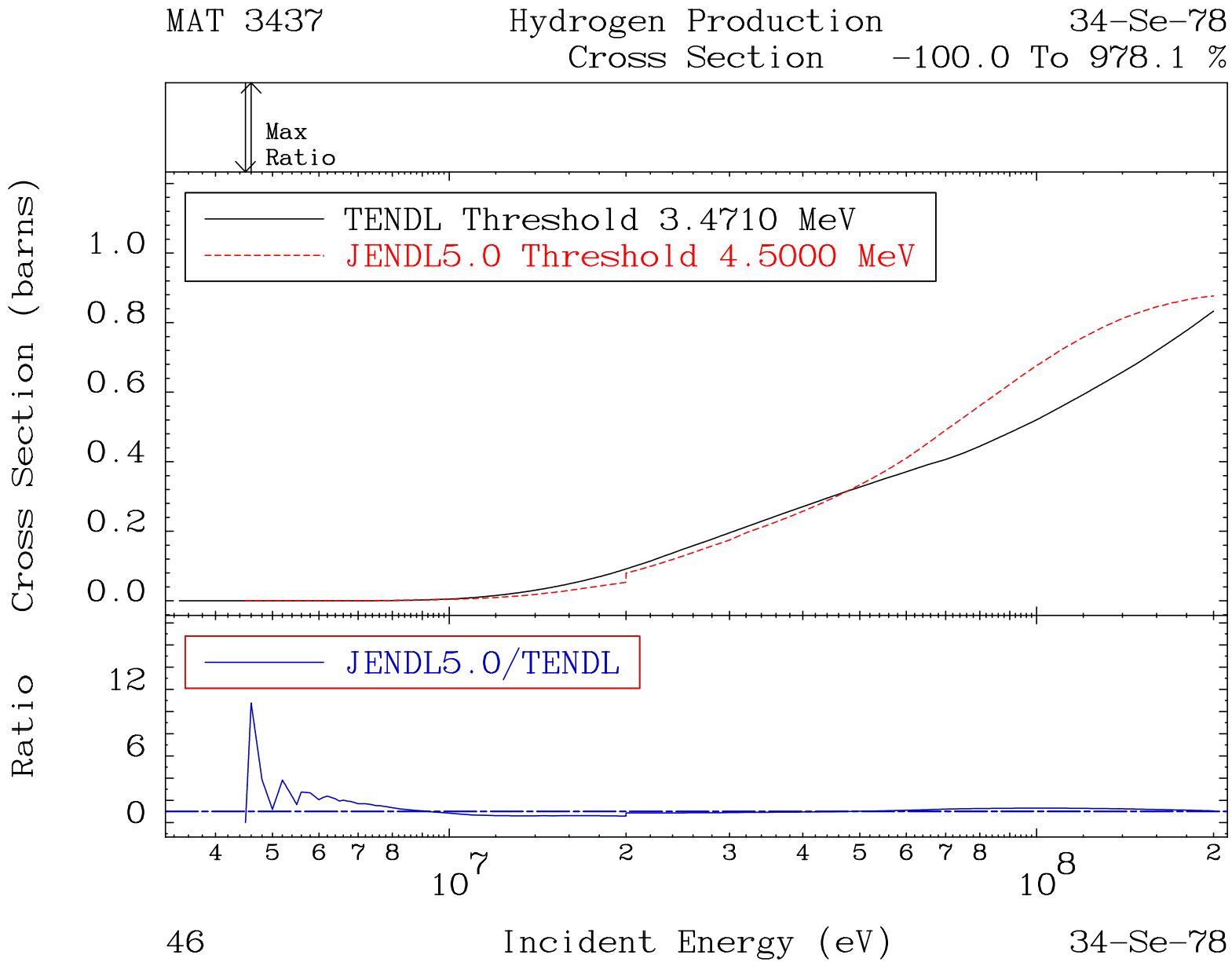

MAT 3437
Dpa inelastic (mt51-91)
34-Se-78
Cross Section -17.57 To 67.77 %
Min Ratio
Max Ratio
TENDL Threshold 621.67 keV
CENDL3.2 Threshold 621.67 keV
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
41
34-Se-78

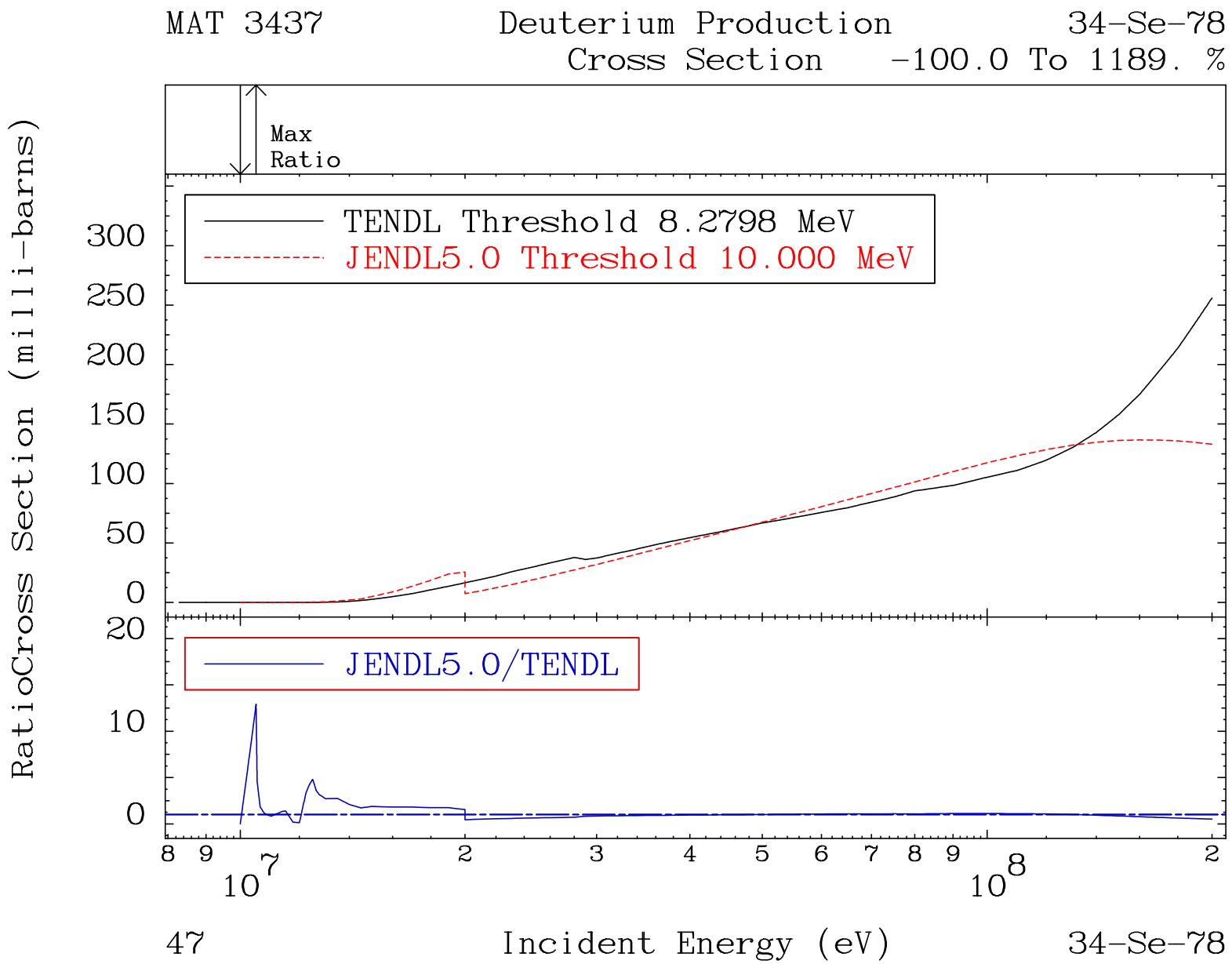

MAT 3437 Dpa disappearance (mt102 -120) 34-Se-78
Cross Section -99.94 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
34-Se-78

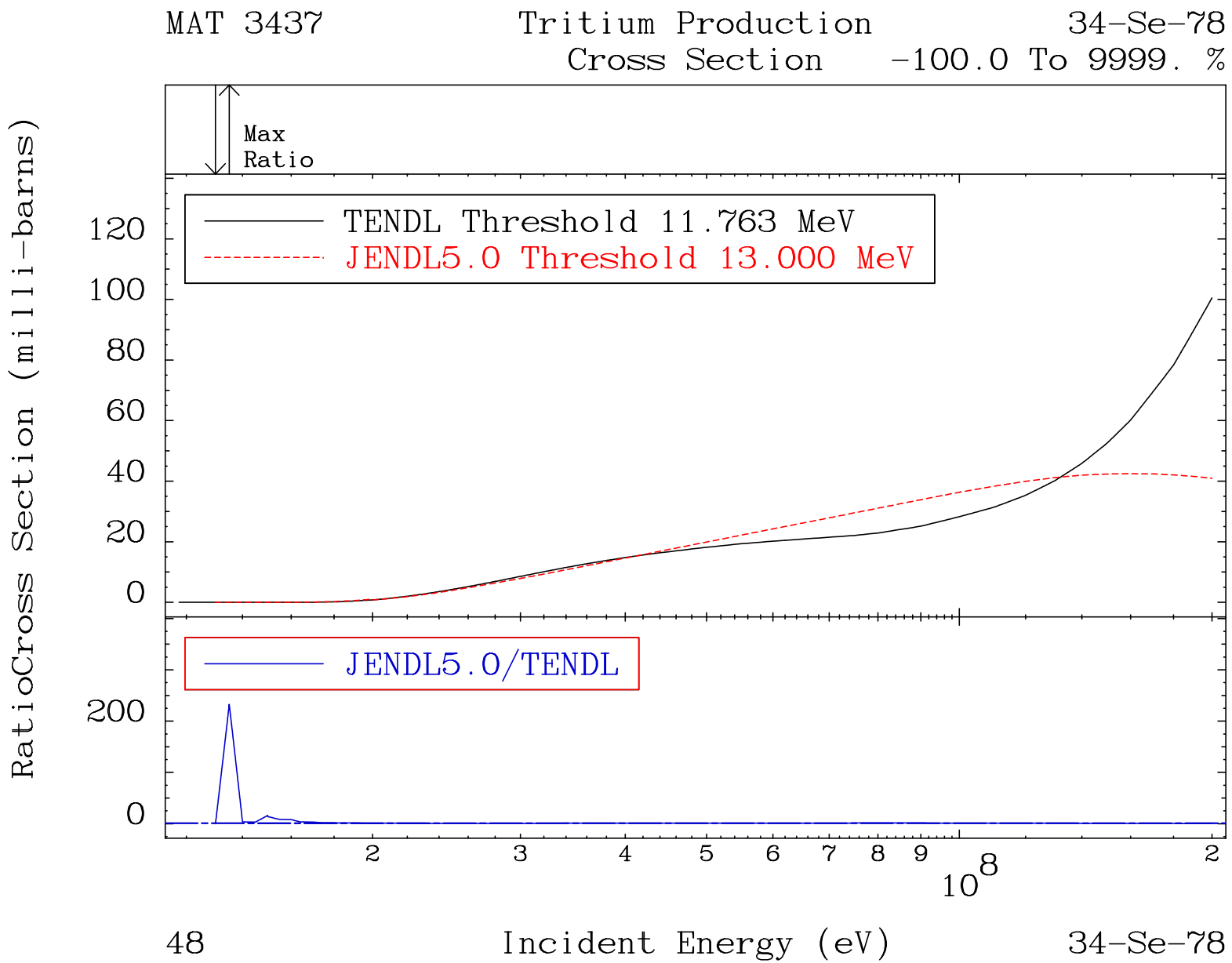

MAT 3437
(n,t)
34-Se-78
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 11.763 MeV
JENDL5.0 Threshold 13.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
6
5
4
3
2
1
0
200
0
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
34-Se-78

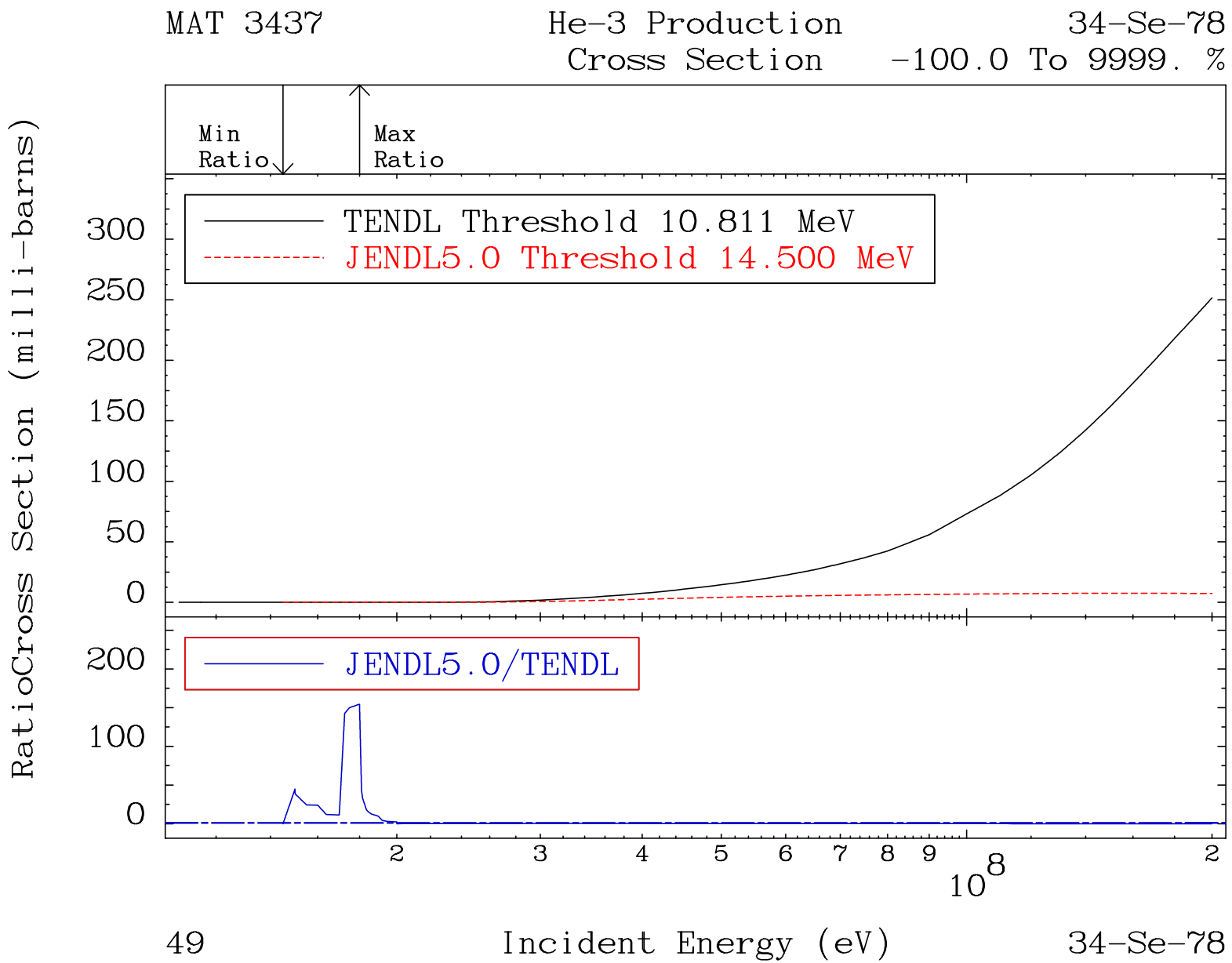

MAT 3437
(n,He-3)
34-Se-78
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.811 MeV
JENDL5.0 Threshold 14.500 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
200
100
0
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
34-Se-78

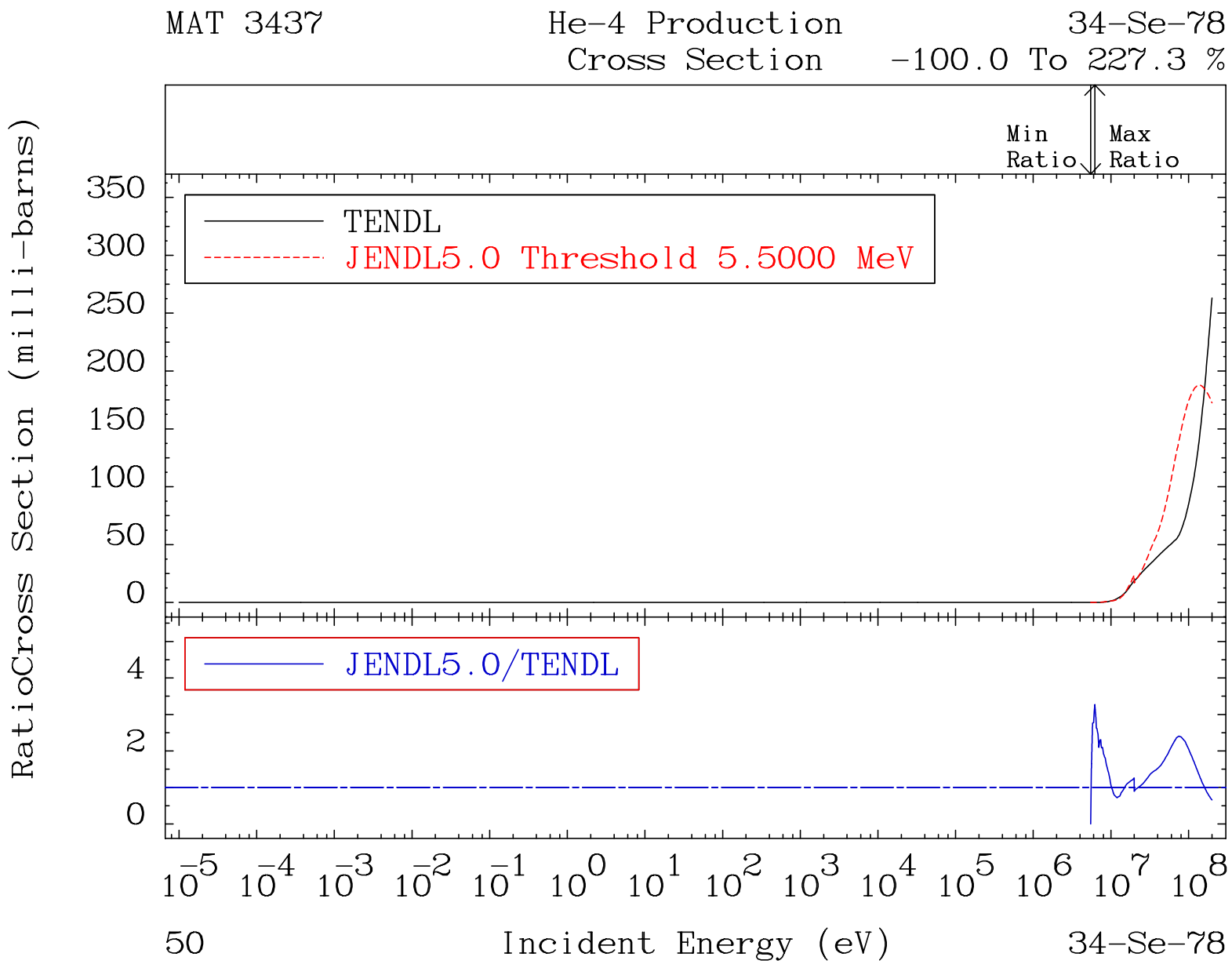

MAT 3437
(n,α)
Cross Section
34-Se-78
-100.0 To 227.3 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
45
34-Se-78

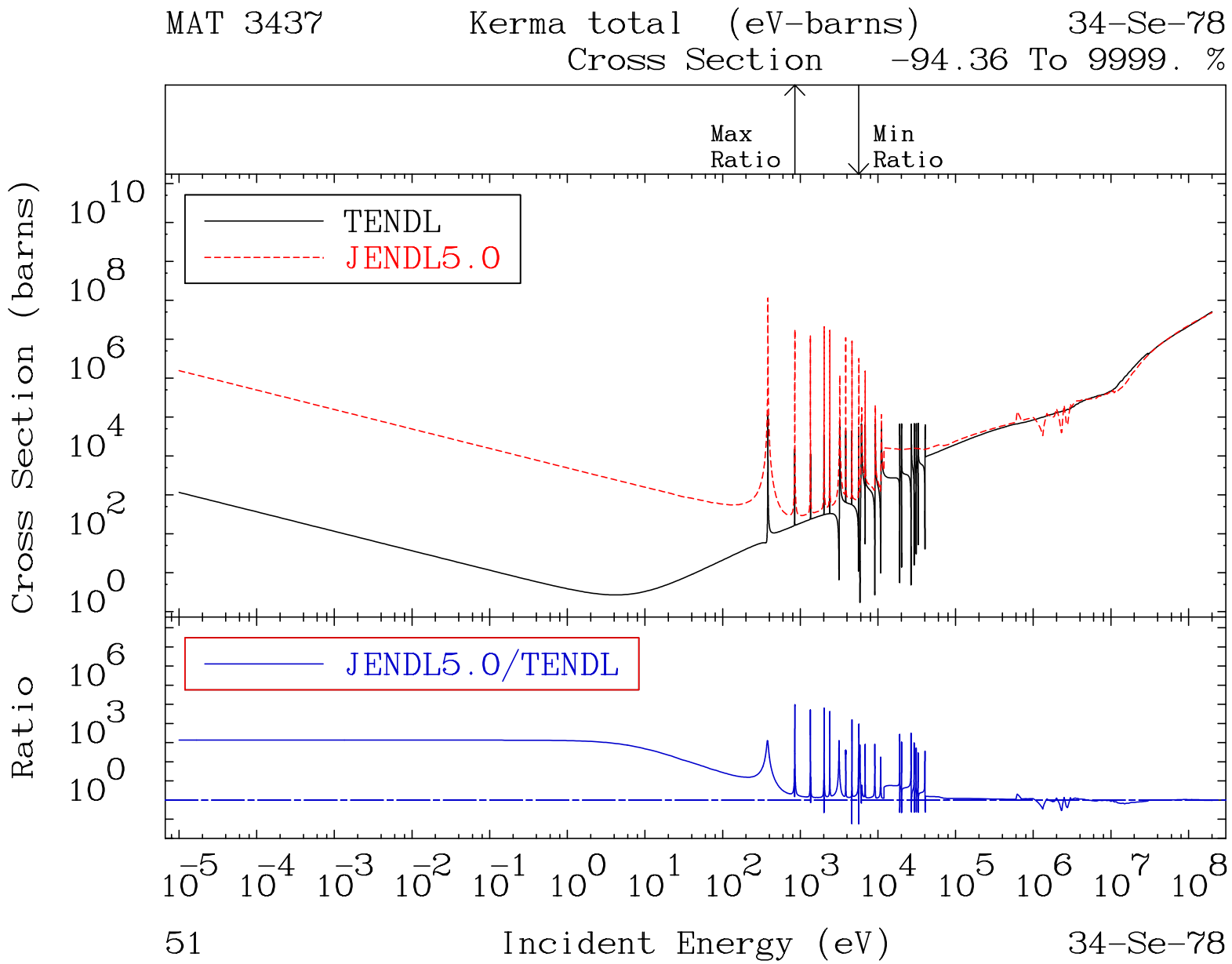

MAT 3437
Hydrogen Production
34-Se-78
Cross Section
-100.0 To 978.1 %
Max
Ratio
TENDL Threshold 3.4710 MeV
JENDL5.0 Threshold 4.5000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
12
6
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
46
Incident Energy (eV)
34-Se-78

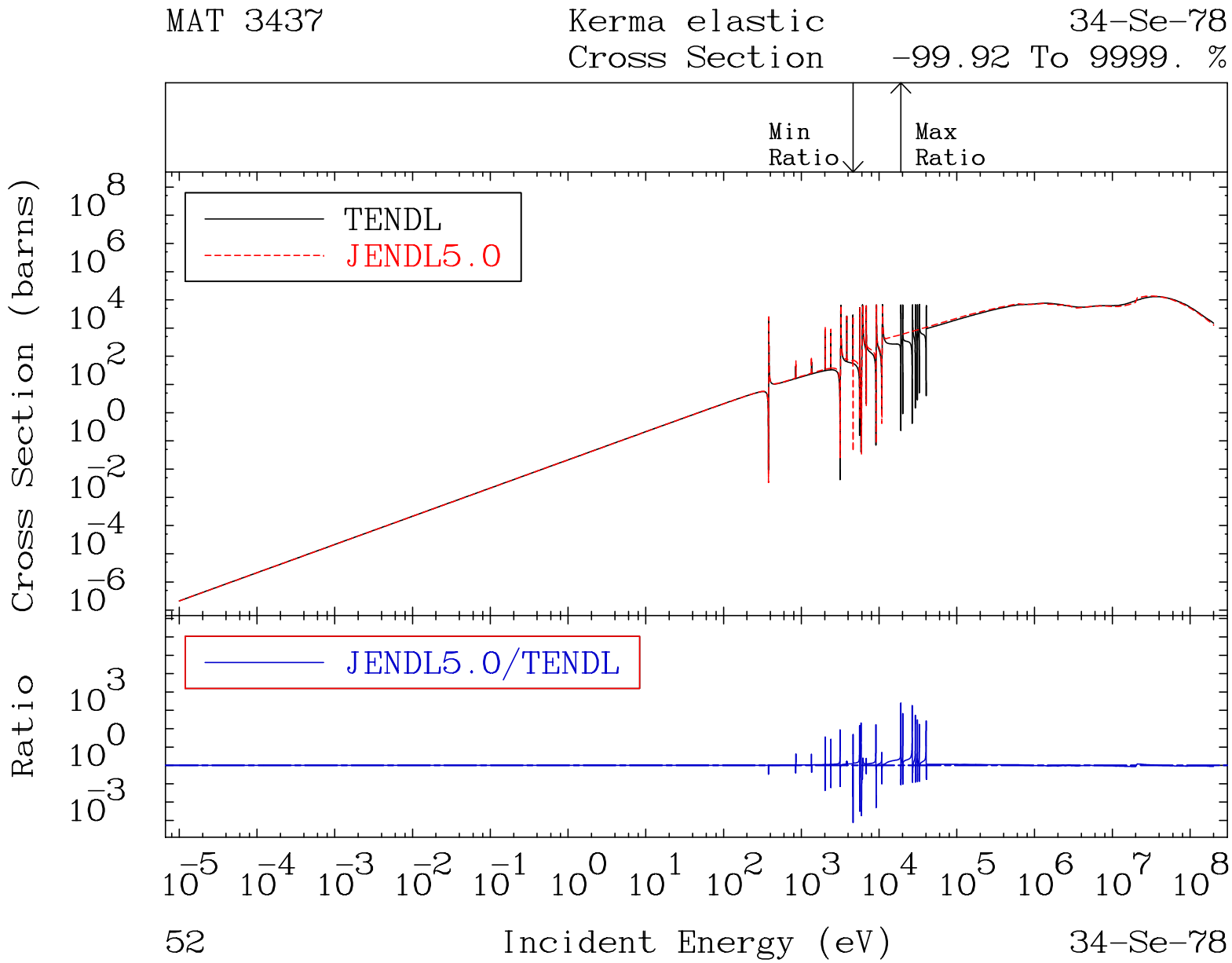

MAT 3437
Deuterium Production
34-Se-78
Cross Section -100.0 To 1189. %
Max
Ratio
TENDL Threshold 8.2798 MeV
JENDL5.0 Threshold 10.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
20
10
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
34-Se-78

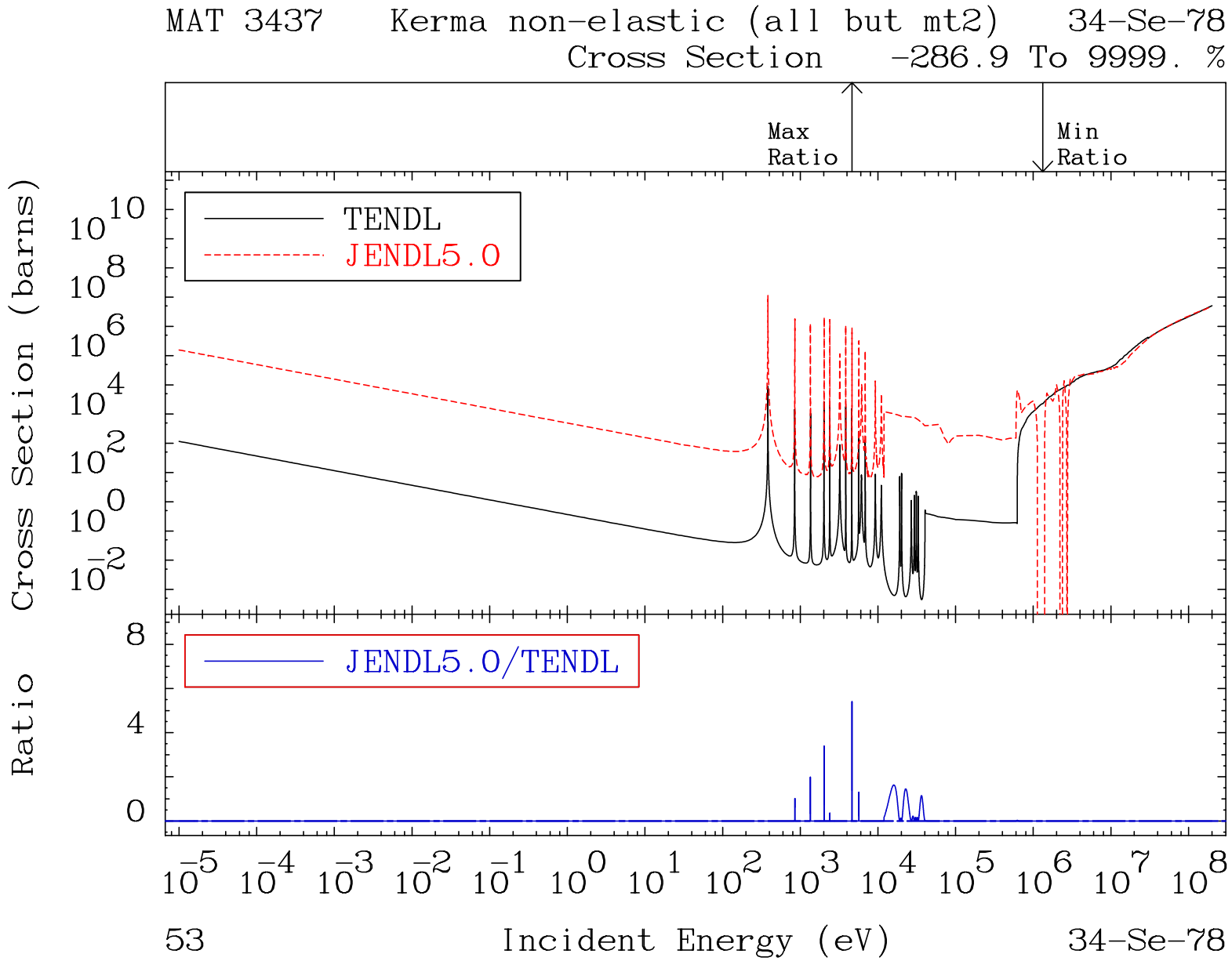

MAT 3437
Tritium Production
34-Se-78
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 11.763 MeV
JENDL5.0 Threshold 13.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
200
0
2
3
4
5
6
7
8
9
2
10^8
48
Incident Energy (eV)
34-Se-78

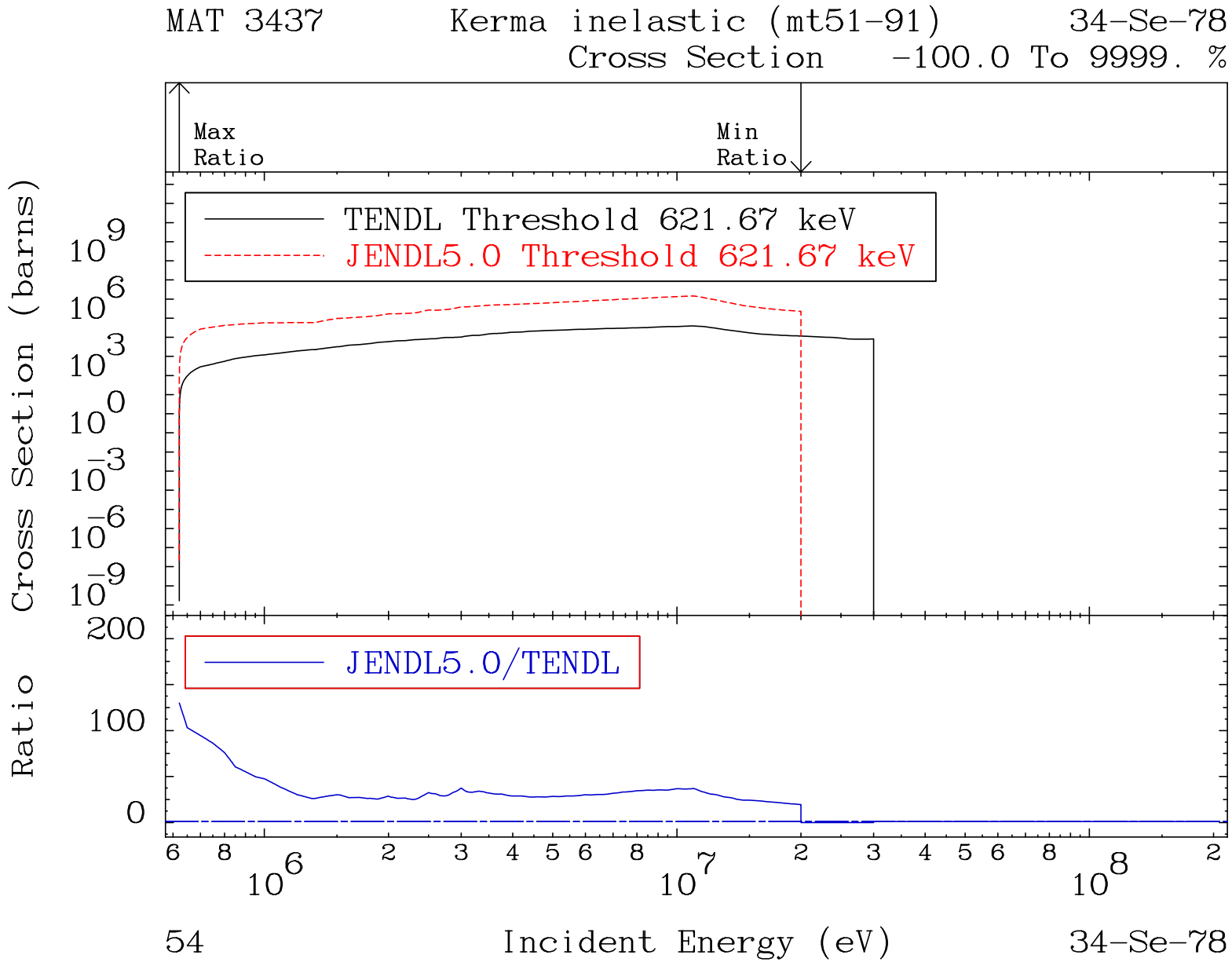

MAT 3437
He-3 Production
34-Se-78
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.811 MeV
JENDL5.0 Threshold 14.500 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
200
100
0
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
34-Se-78

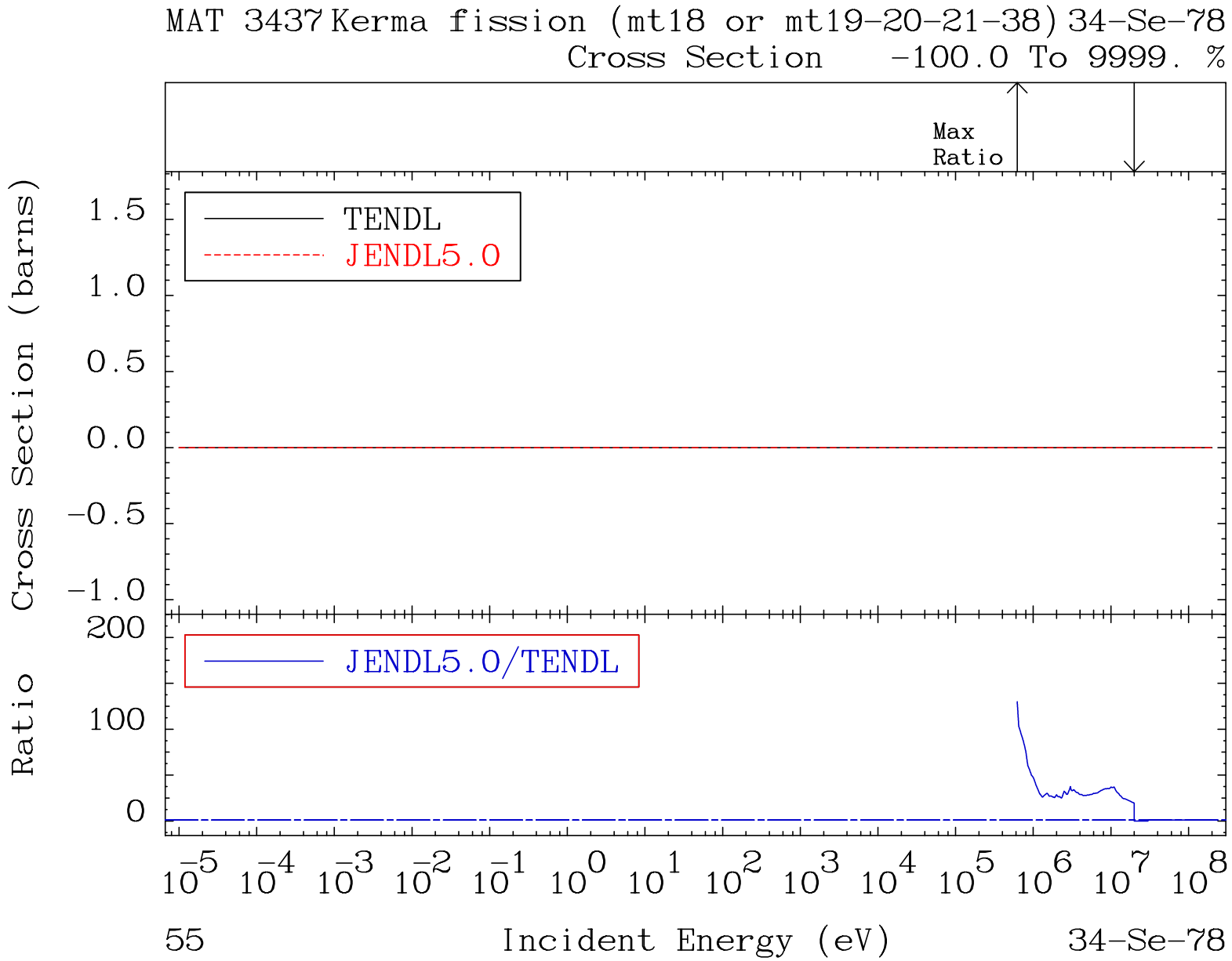

MAT 3437
He-4 Production
Cross Section
34-Se-78
-100.0 To 227.3 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
34-Se-78

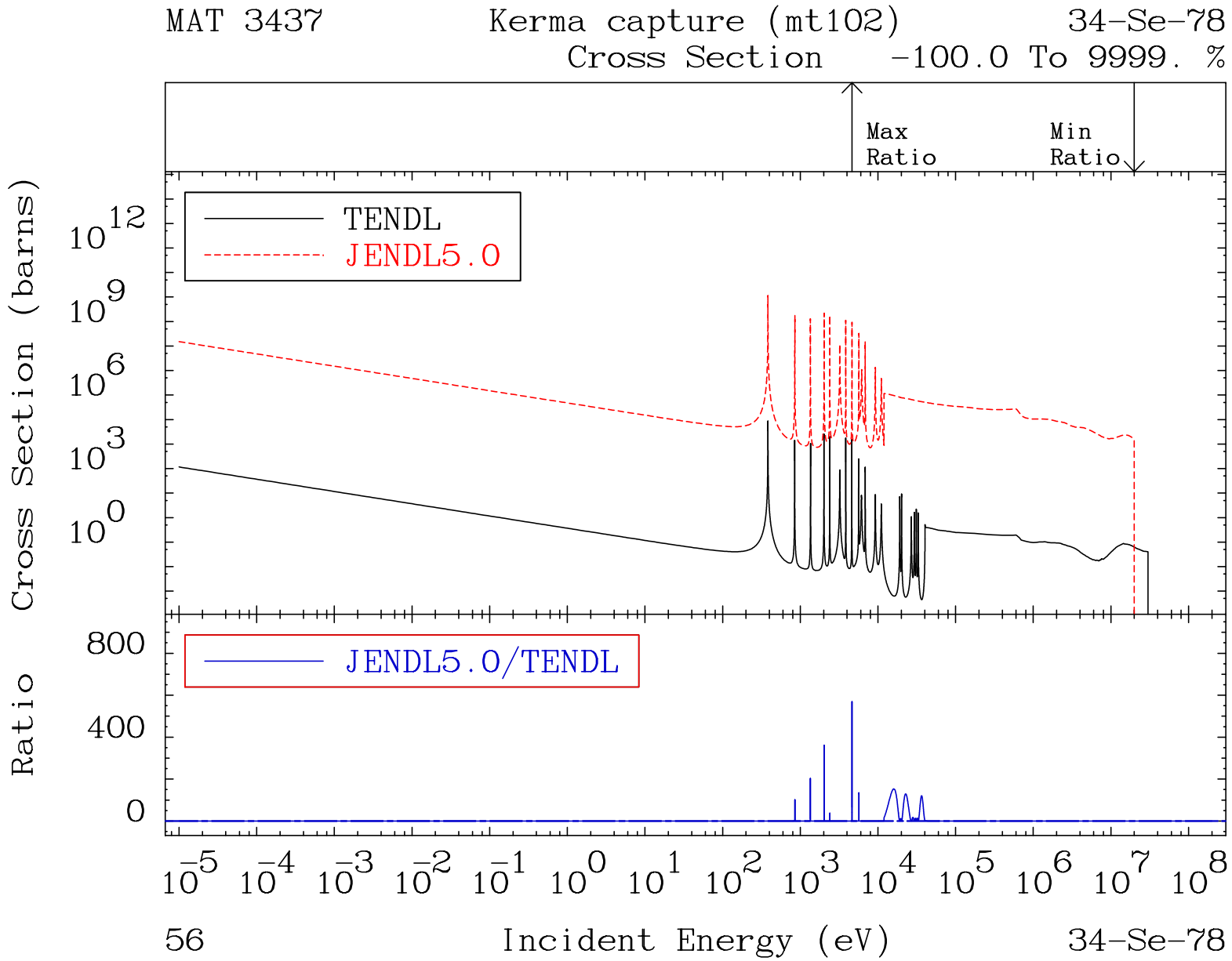

MAT 3437
Kerma total (eV-barns)
34-Se-78
Cross Section -94.36 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
34-Se-78

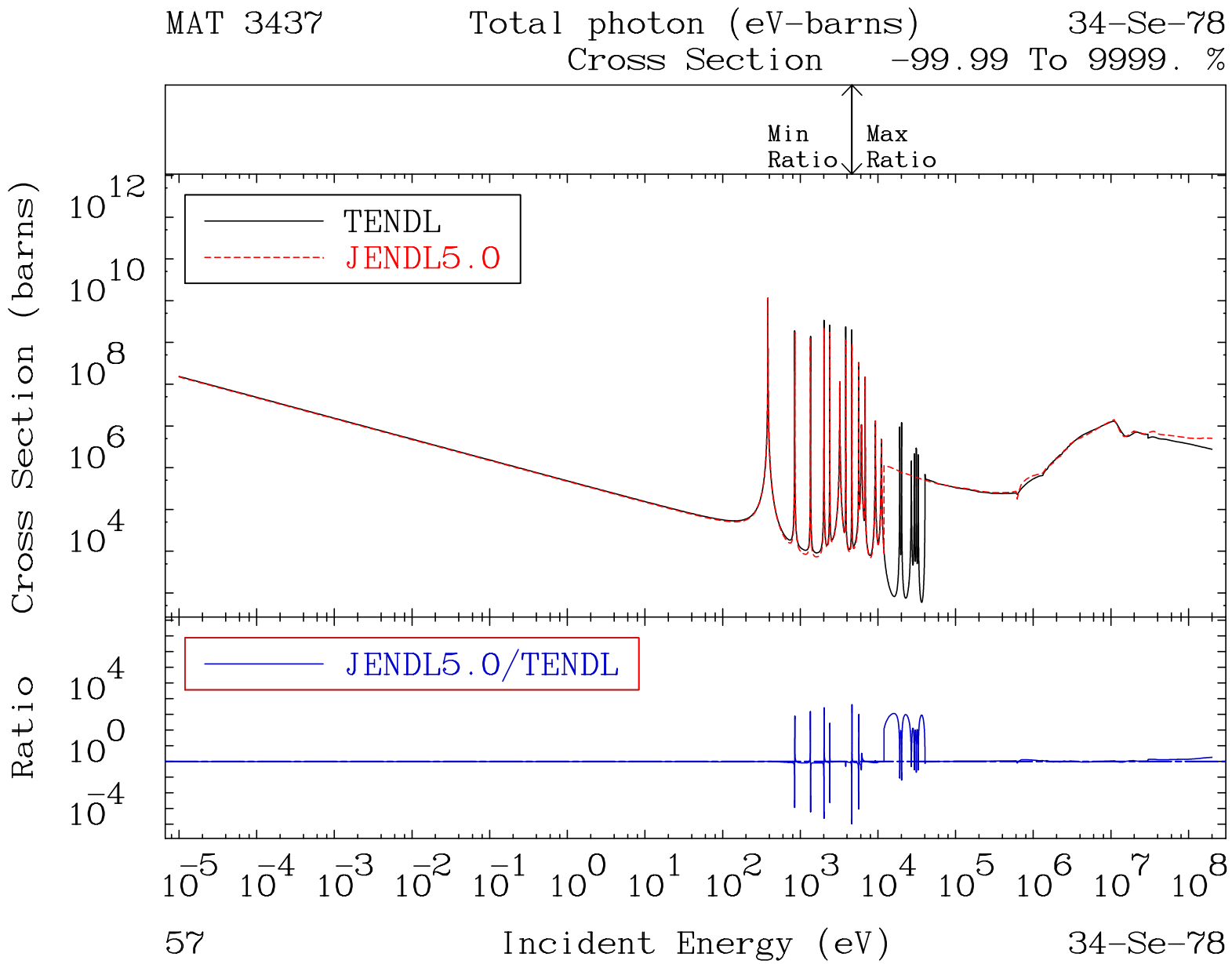

MAT 3437
Kerma elastic
Cross Section
34-Se-78
-99.92 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
34-Se-78

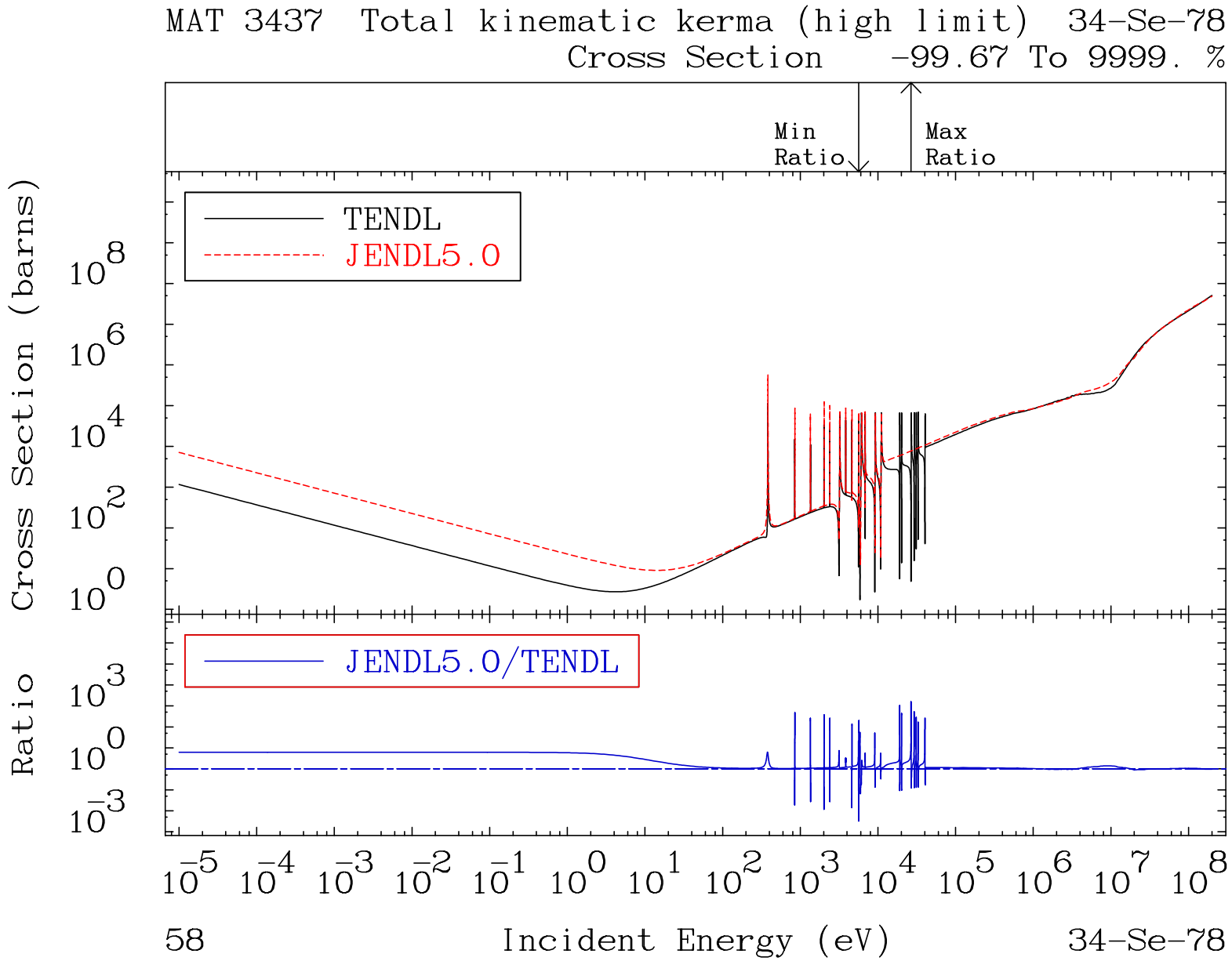

MAT 3437 Kerma non-elastic (all but mt2) 34-Se-78
Cross Section -286.9 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
34-Se-78

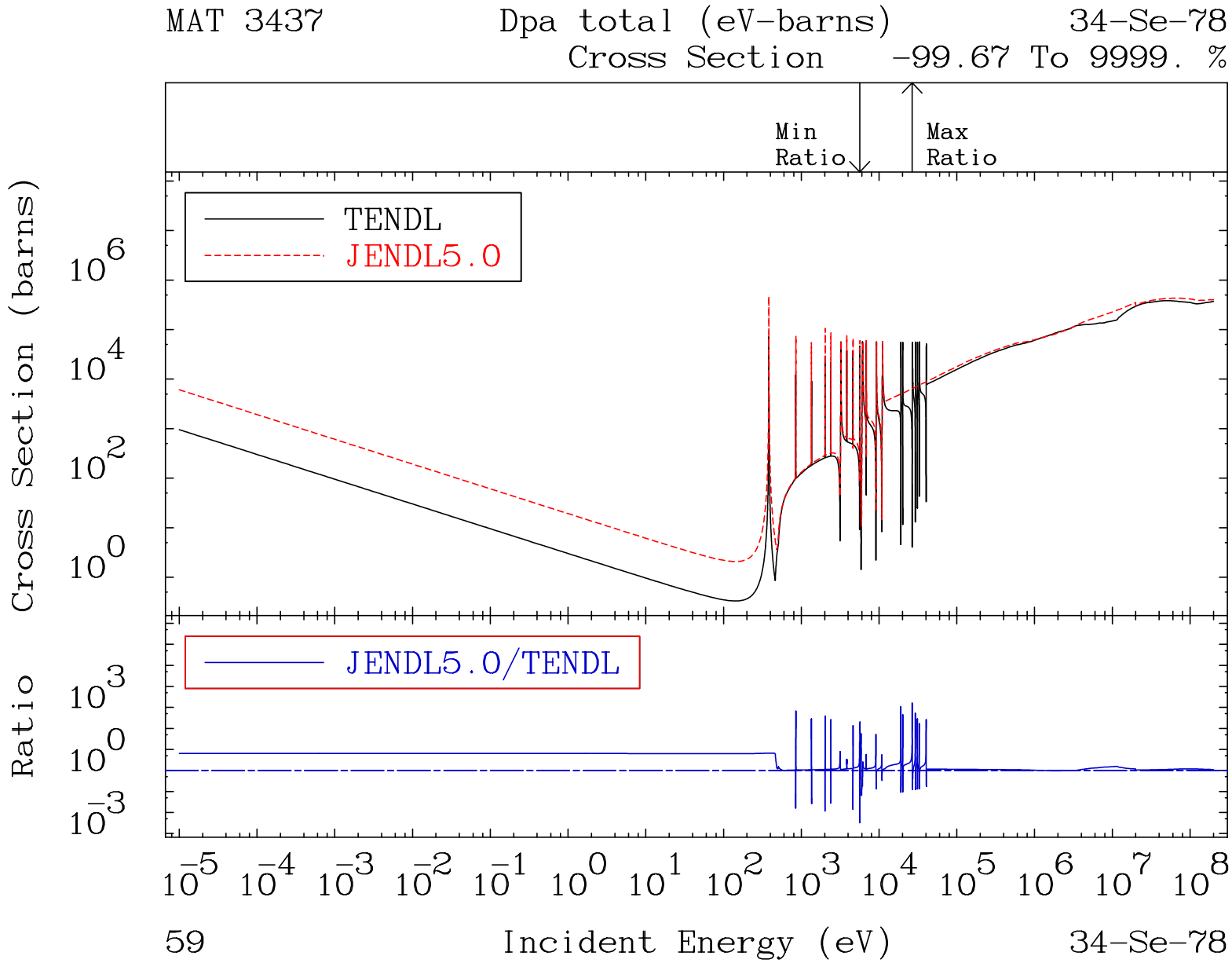

MAT 3437
Kerma inelastic (mt51-91)
34-Se-78
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 621.67 keV
JENDL5.0 Threshold 621.67 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
34-Se-78

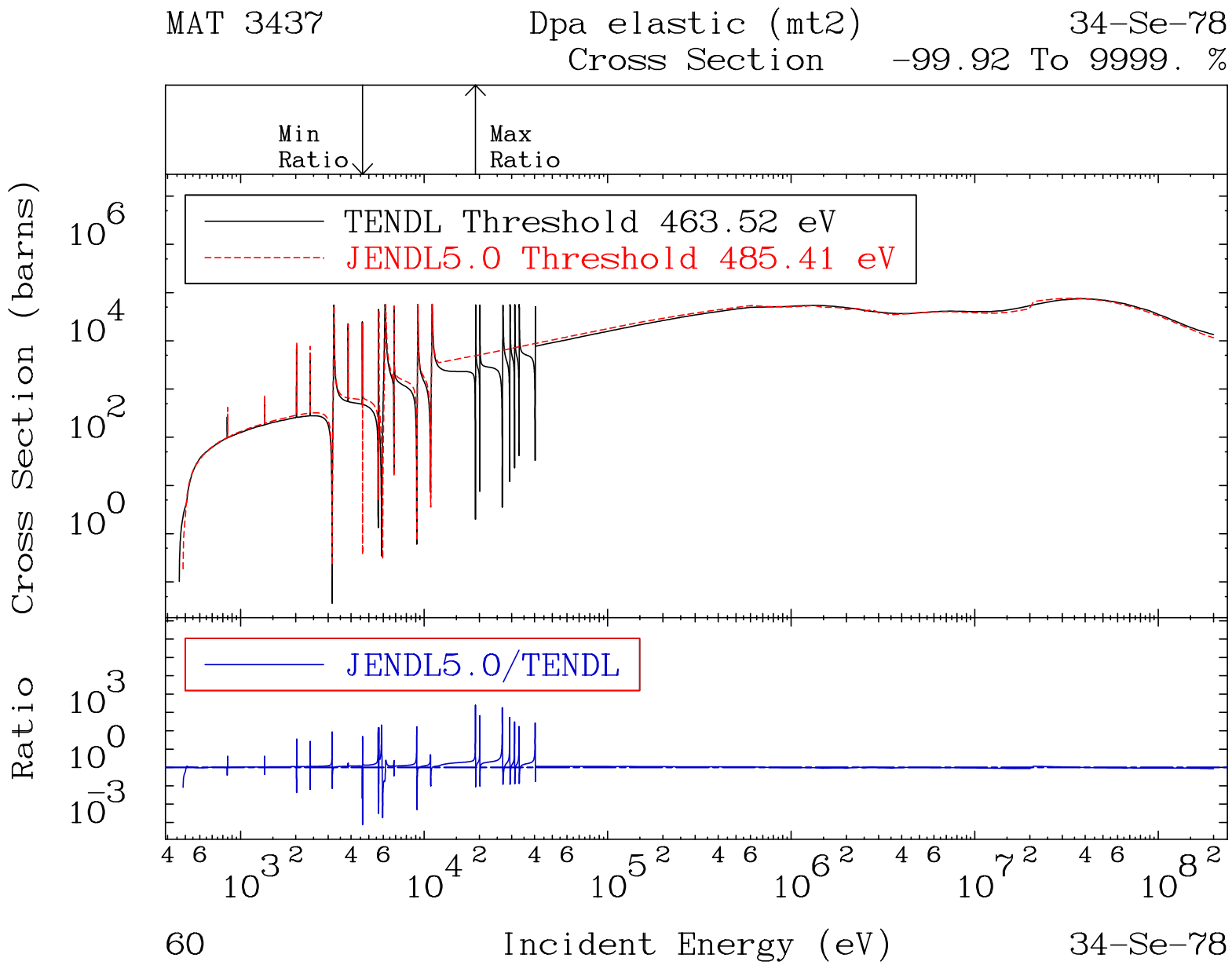

MAT 3437 Kerma fission (mt18 or mt19-20-21-38) 34-Se-78
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
200
100
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
55
Incident Energy (eV)
34-Se-78

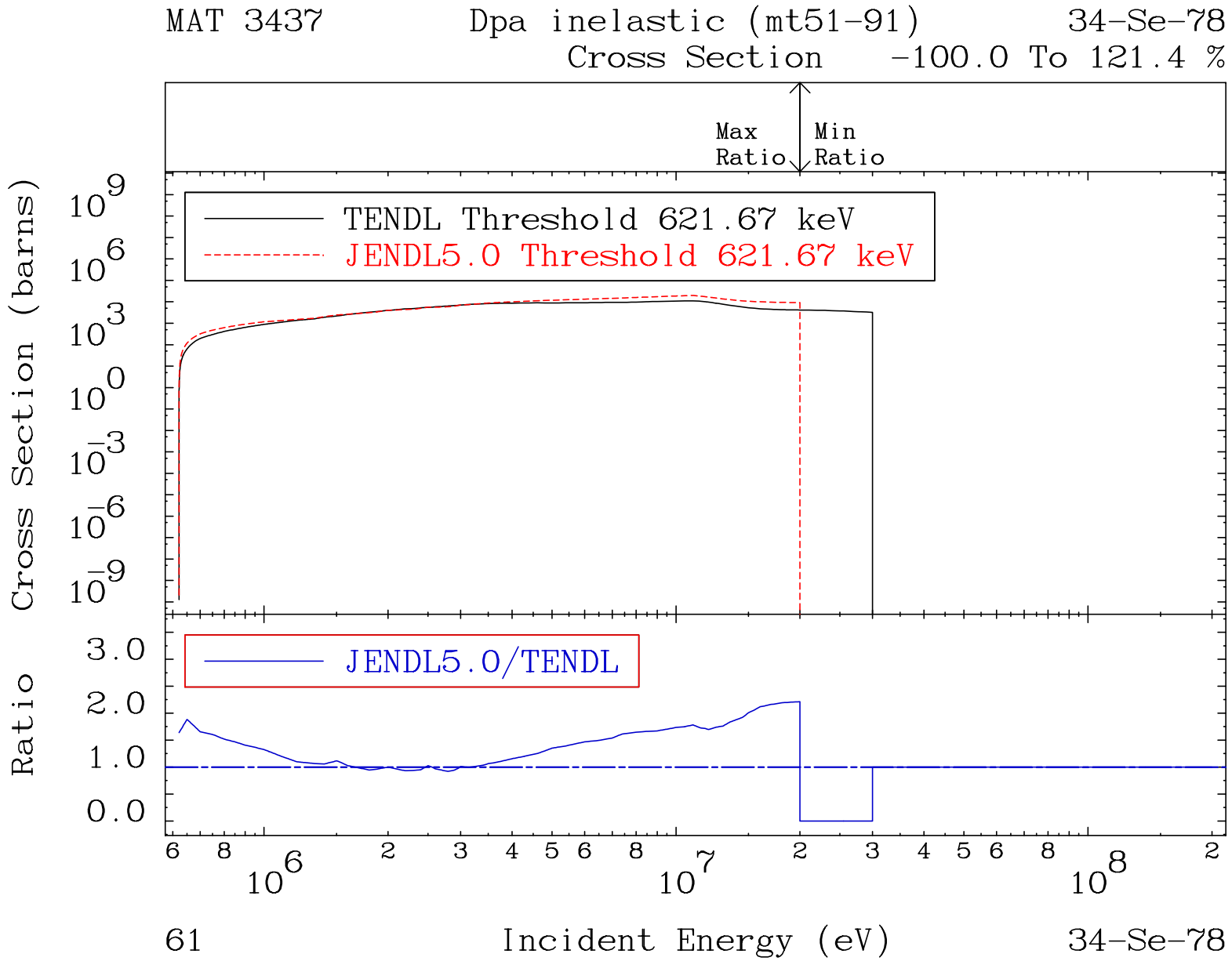

MAT 3437
Kerma capture (mt102)
34-Se-78
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^12
10^9
10^6
10^3
10^0
JENDL5.0/TENDL
Ratio
800
400
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
56
Incident Energy (eV)
34-Se-78

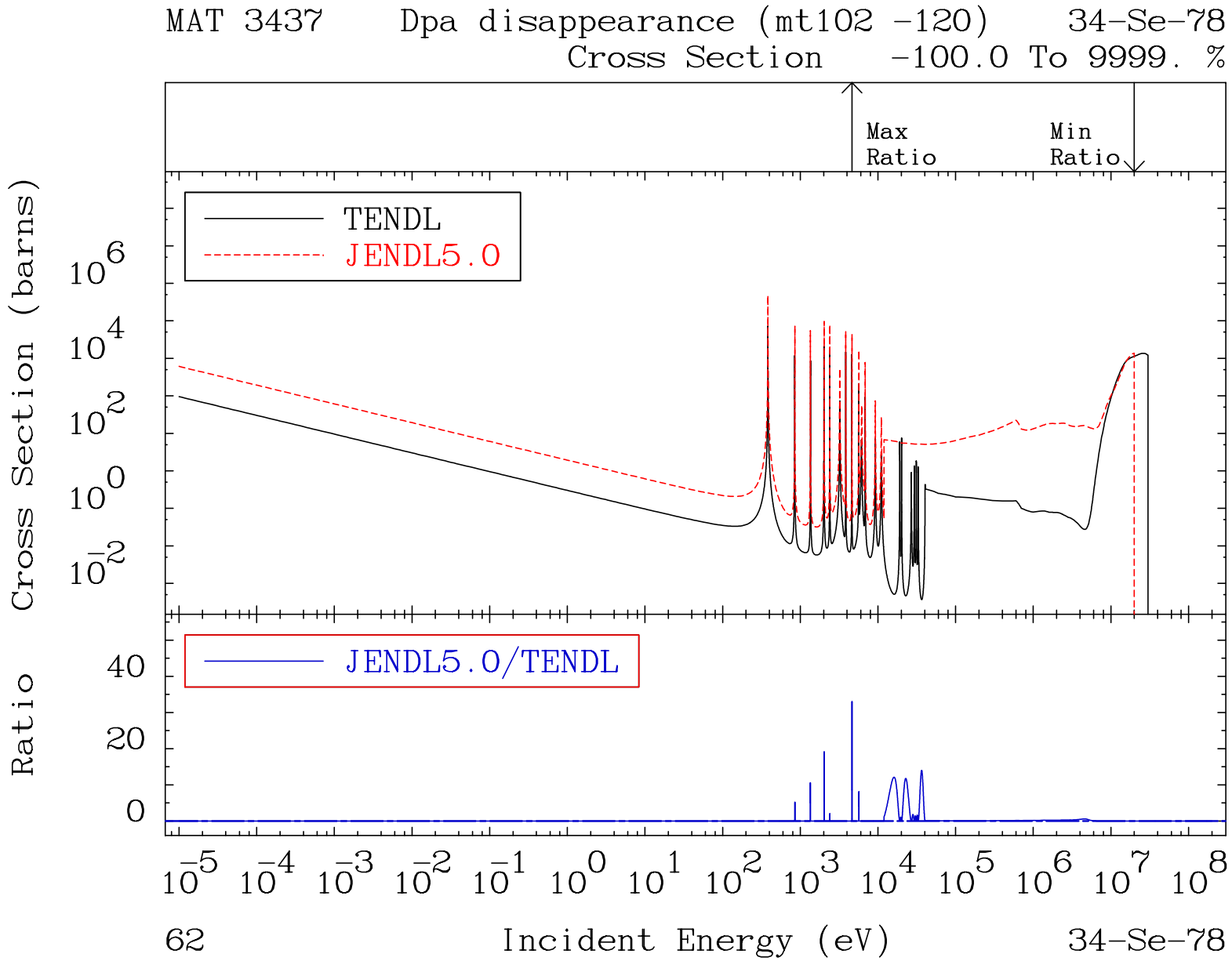

MAT 3437
Total photon (eV-barns)
34-Se-78
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
34-Se-78

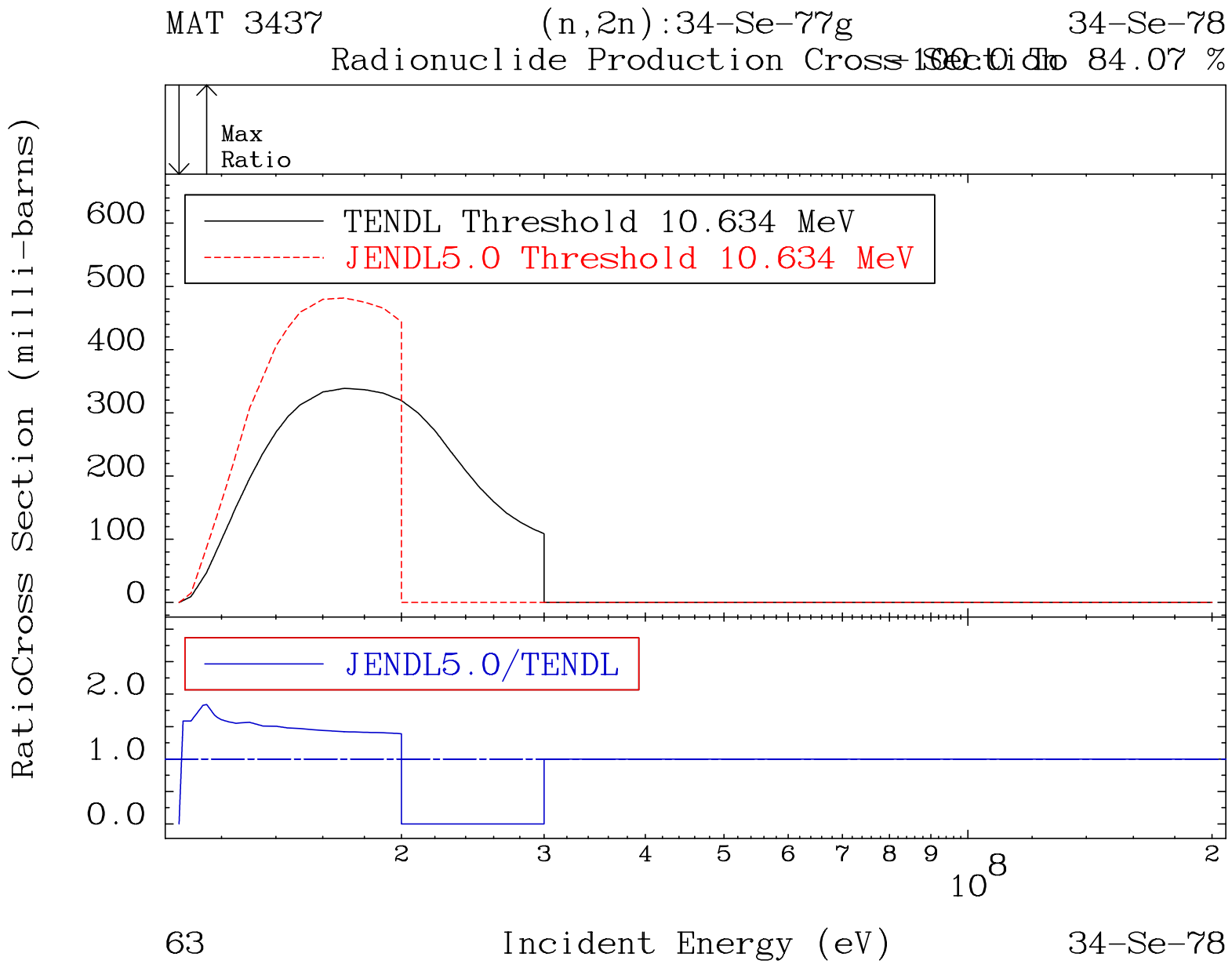

MAT 3437 Total kinematic kerma (high limit) 34-Se-78
Cross Section -99.67 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
34-Se-78

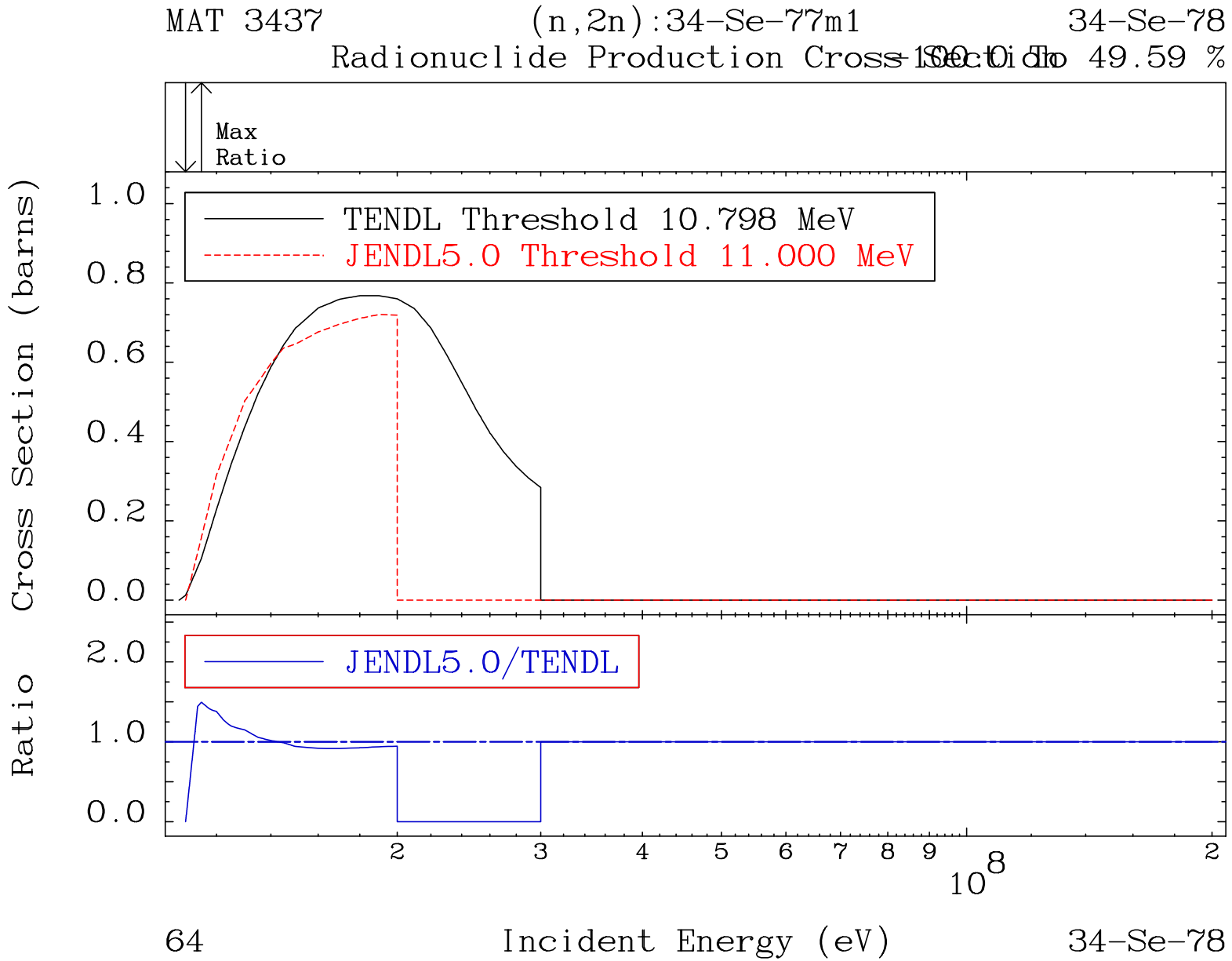

MAT 3437
Dpa total (eV-barns)
34-Se-78
Cross Section
-99.67 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
34-Se-78

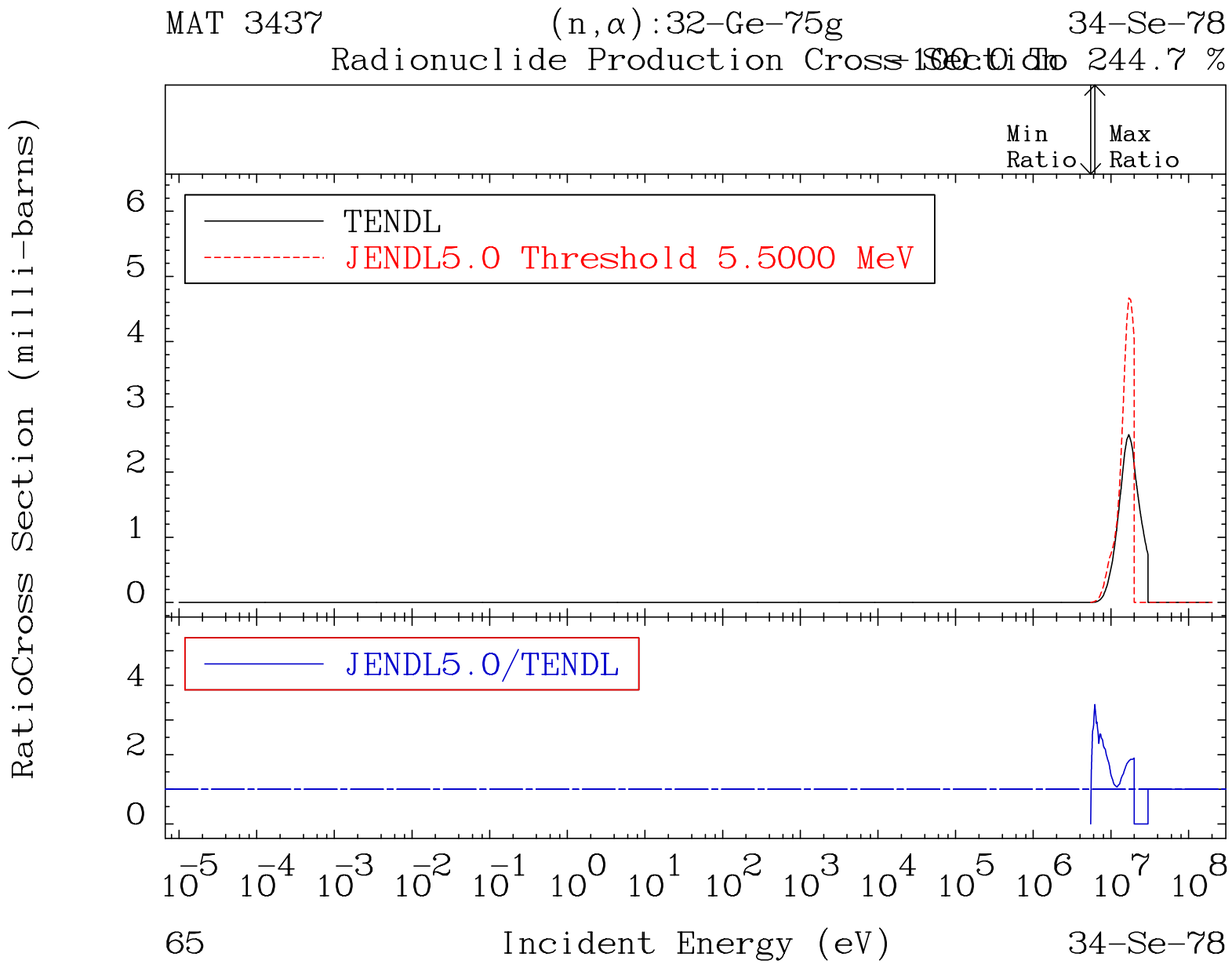

MAT 3437
Dpa elastic (mt2)
Cross Section
34-Se-78
-99.92 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 463.52 eV
JENDL5.0 Threshold 485.41 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
34-Se-78

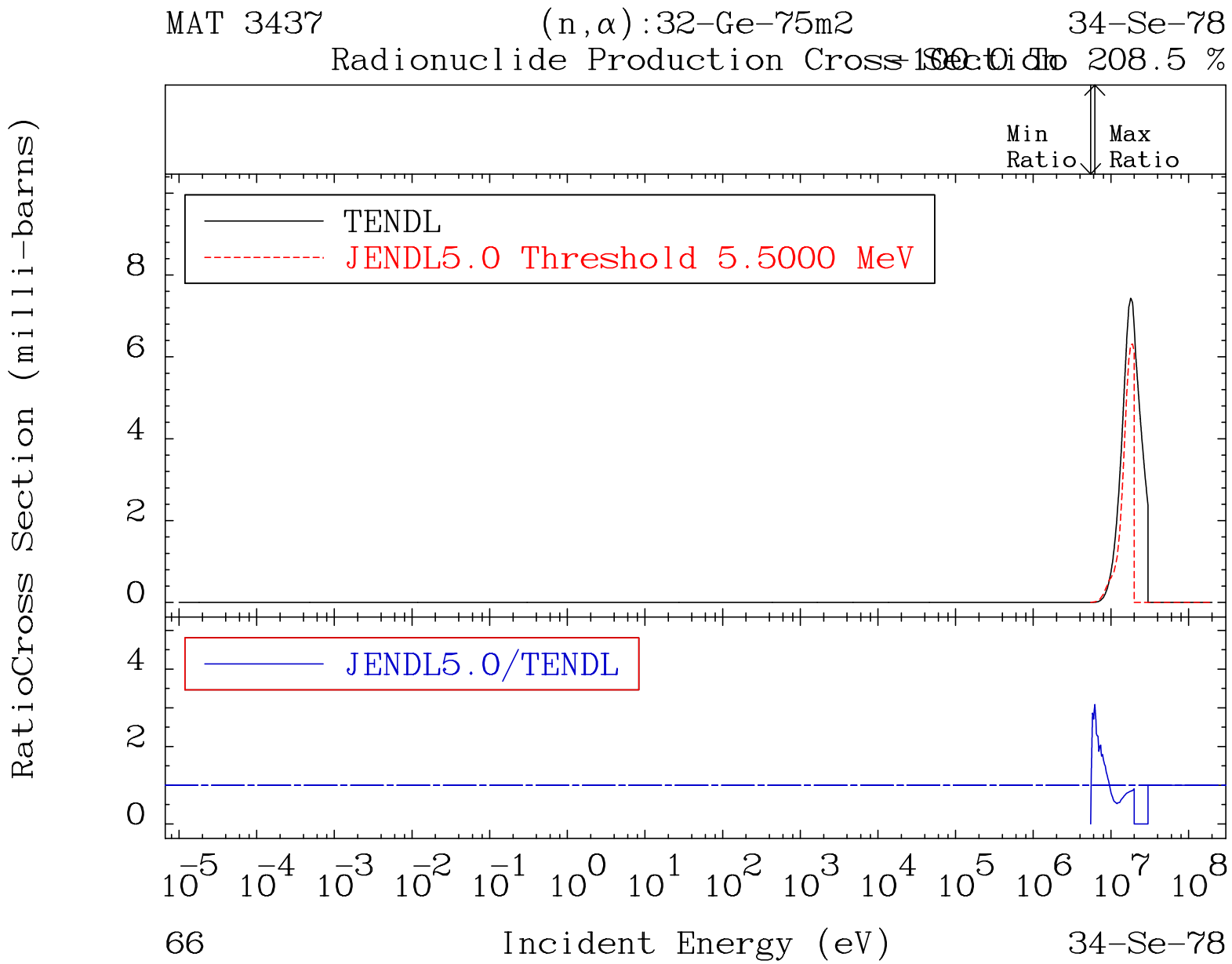

MAT 3437
Dpa inelastic (mt51-91)
34-Se-78
Cross Section -100.0 To 121.4 %
Max Ratio
Min Ratio
TENDL Threshold 621.67 keV
JENDL5.0 Threshold 621.67 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
34-Se-78

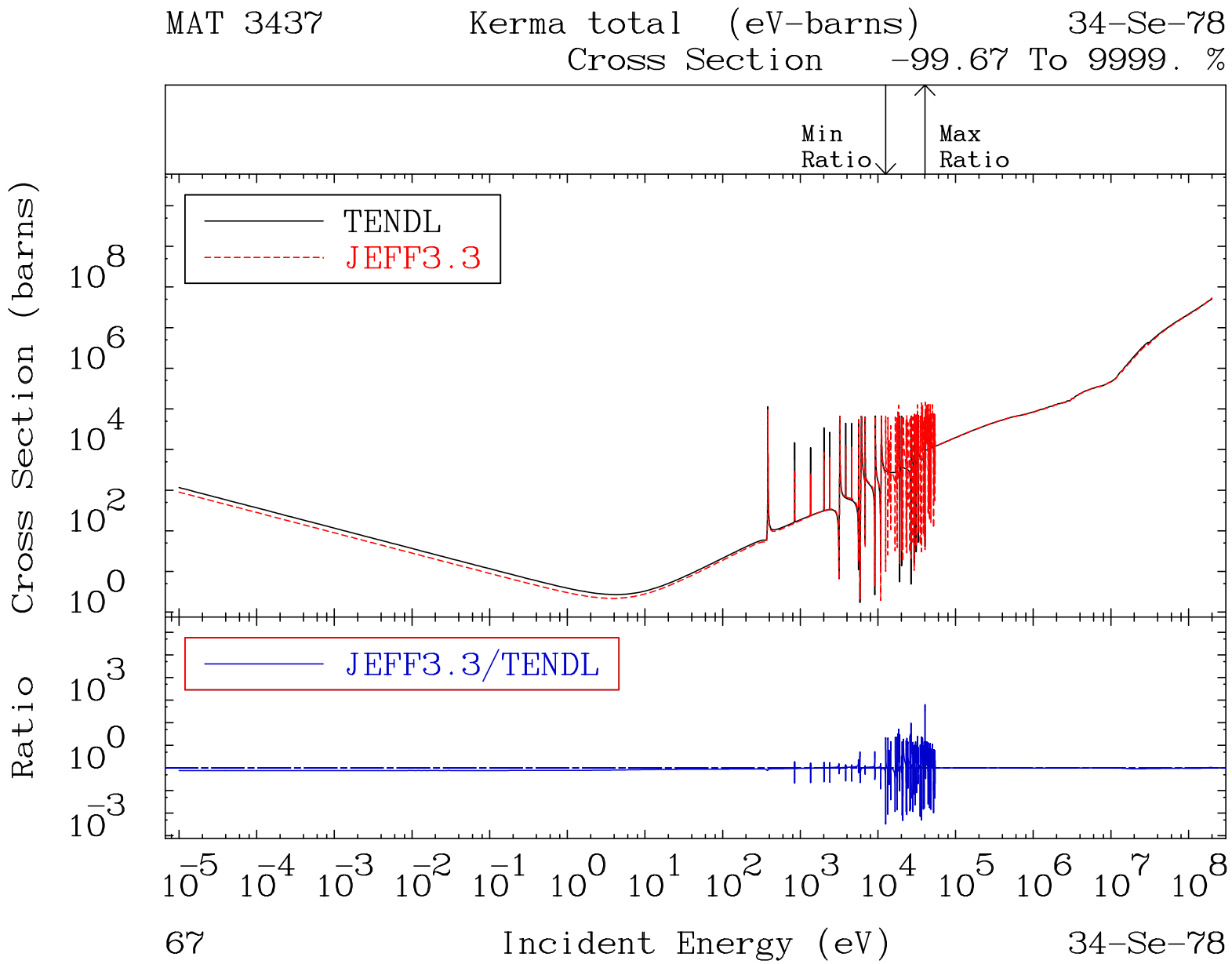

MAT 3437 Dpa disappearance (mt102 -120) 34-Se-78
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
62
34-Se-78

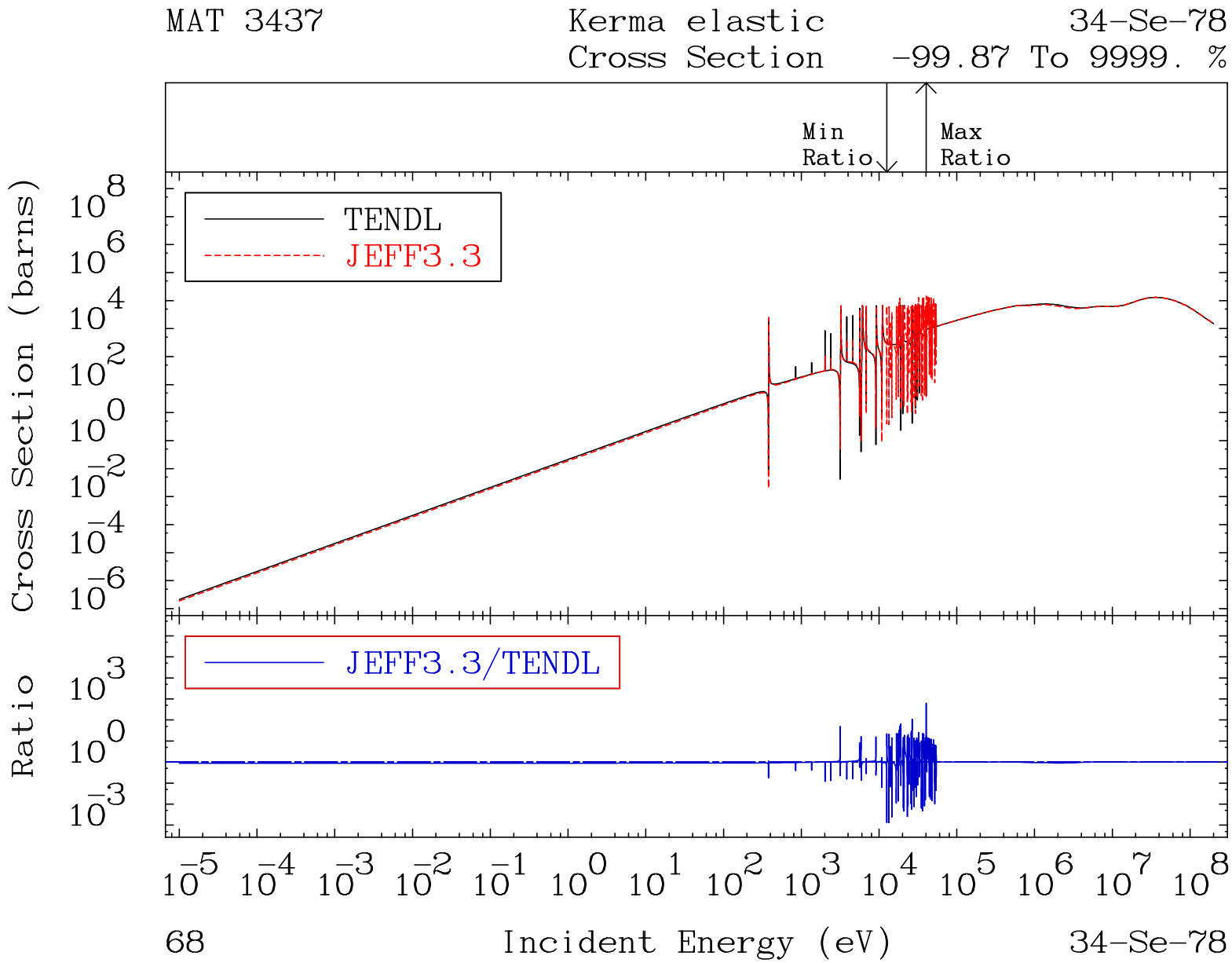

MAT 3437
(n,2n):34-Se-77g
34-Se-78
Radionuclide Production Cross Section To 84.07 %
Max
Ratio
TENDL Threshold 10.634 MeV
JENDL5.0 Threshold 10.634 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
63
Incident Energy (eV)
34-Se-78

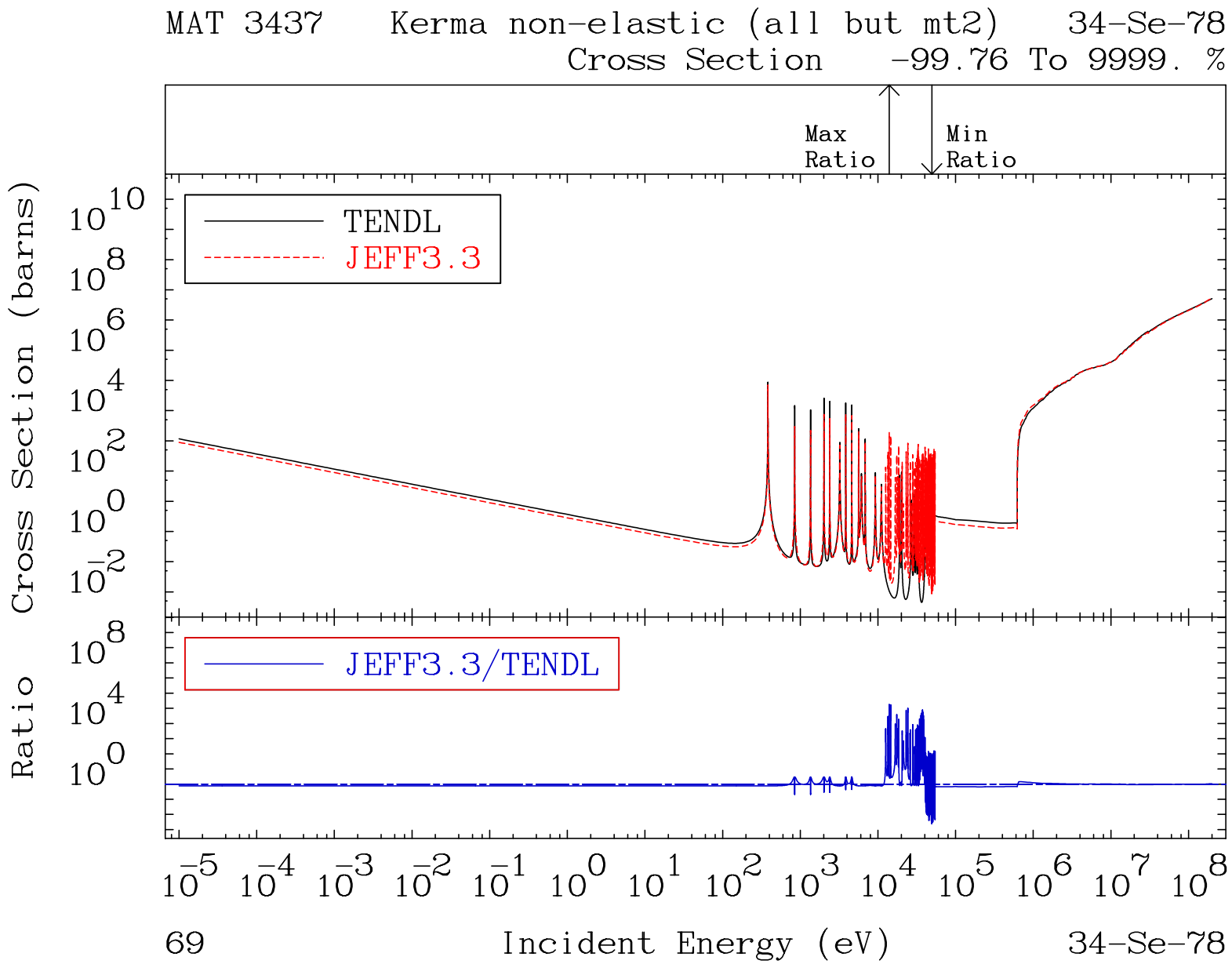

MAT 3437
(n,2n):34-Se-77m1
34-Se-78
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 10.798 MeV
JENDL5.0 Threshold 11.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
64
Incident Energy (eV)
34-Se-78

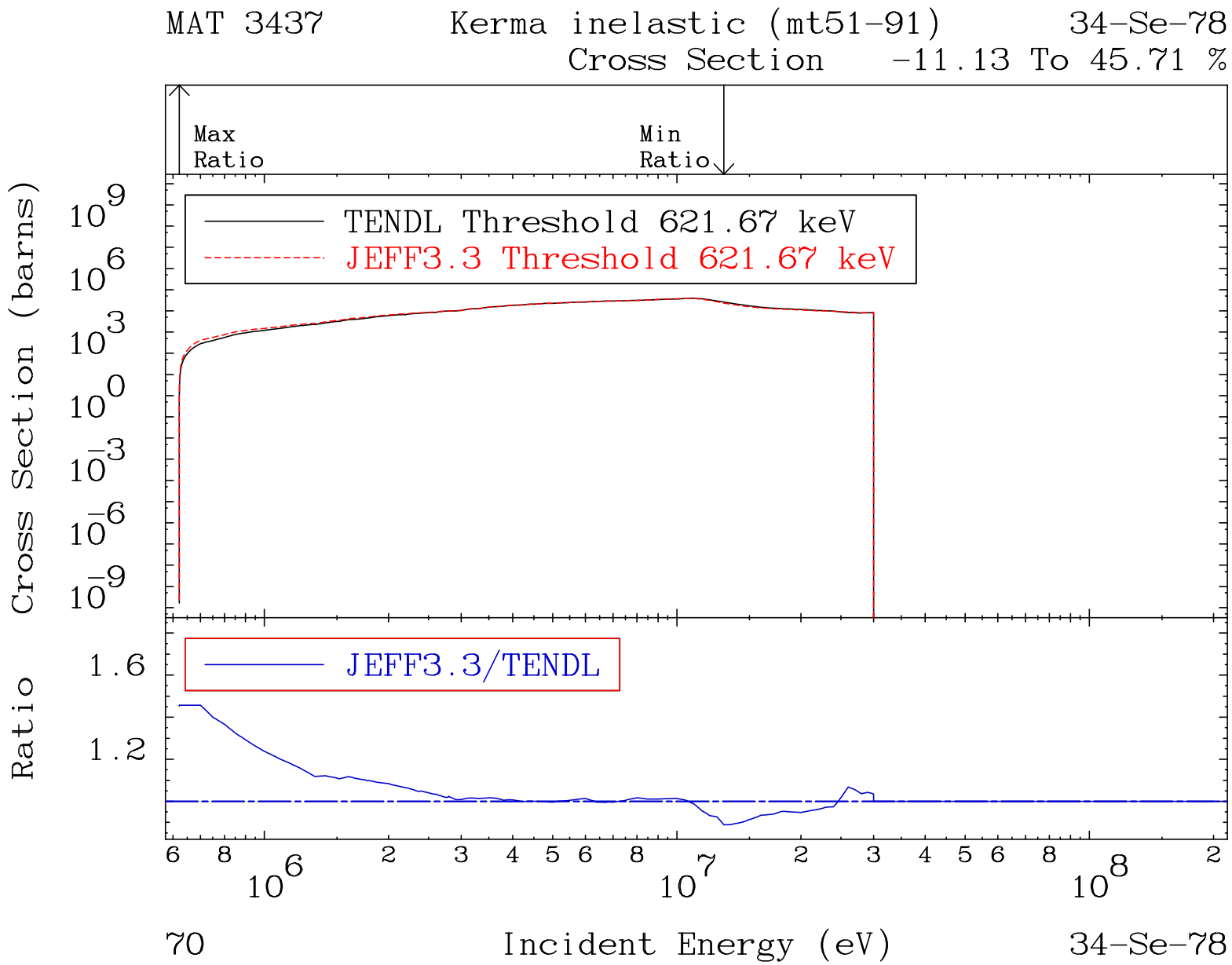

MAT 3437
(n,α):32-Ge-75g
34-Se-78
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
34-Se-78

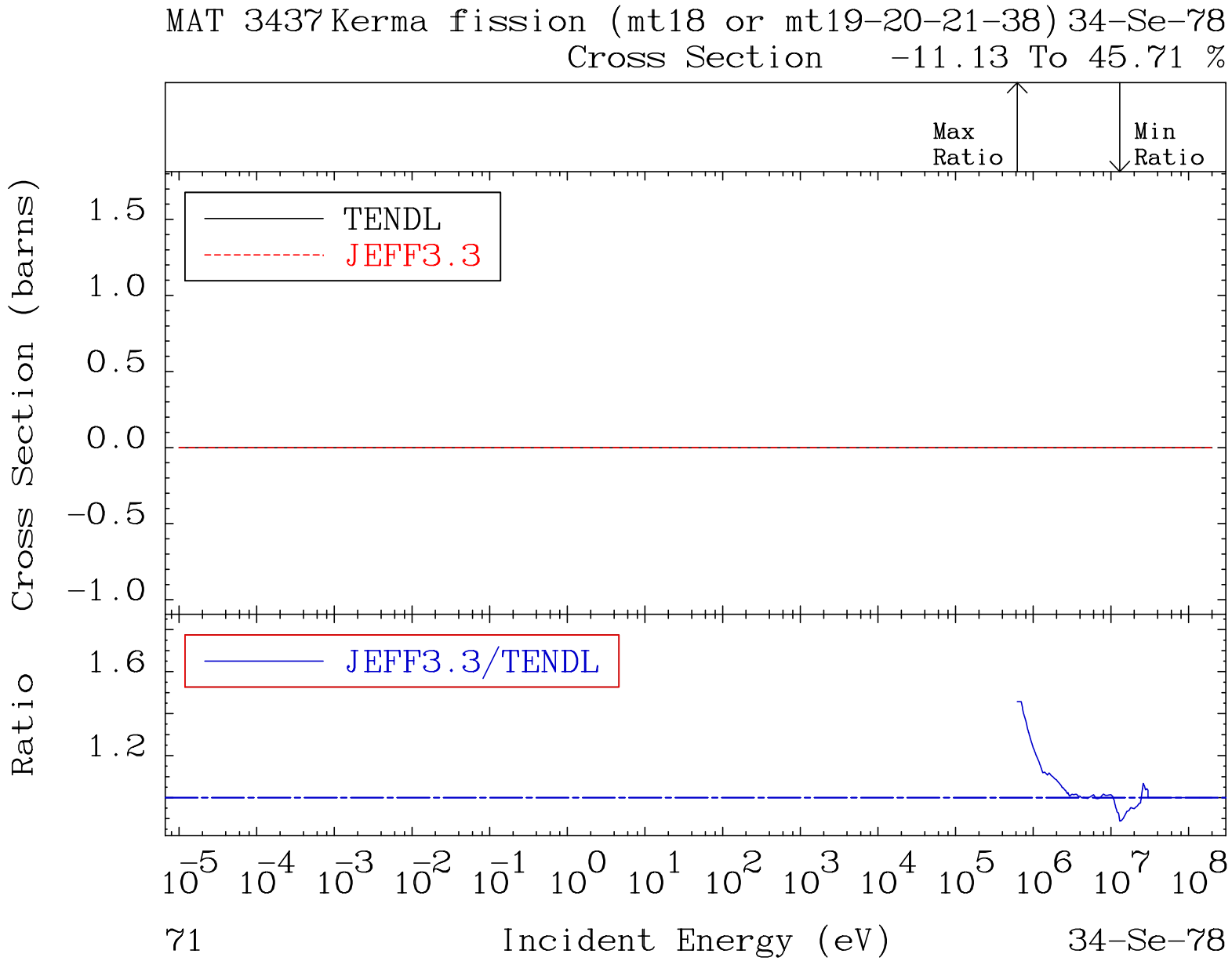

MAT 3437
(n,α):32-Ge-75m2
34-Se-78
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
34-Se-78

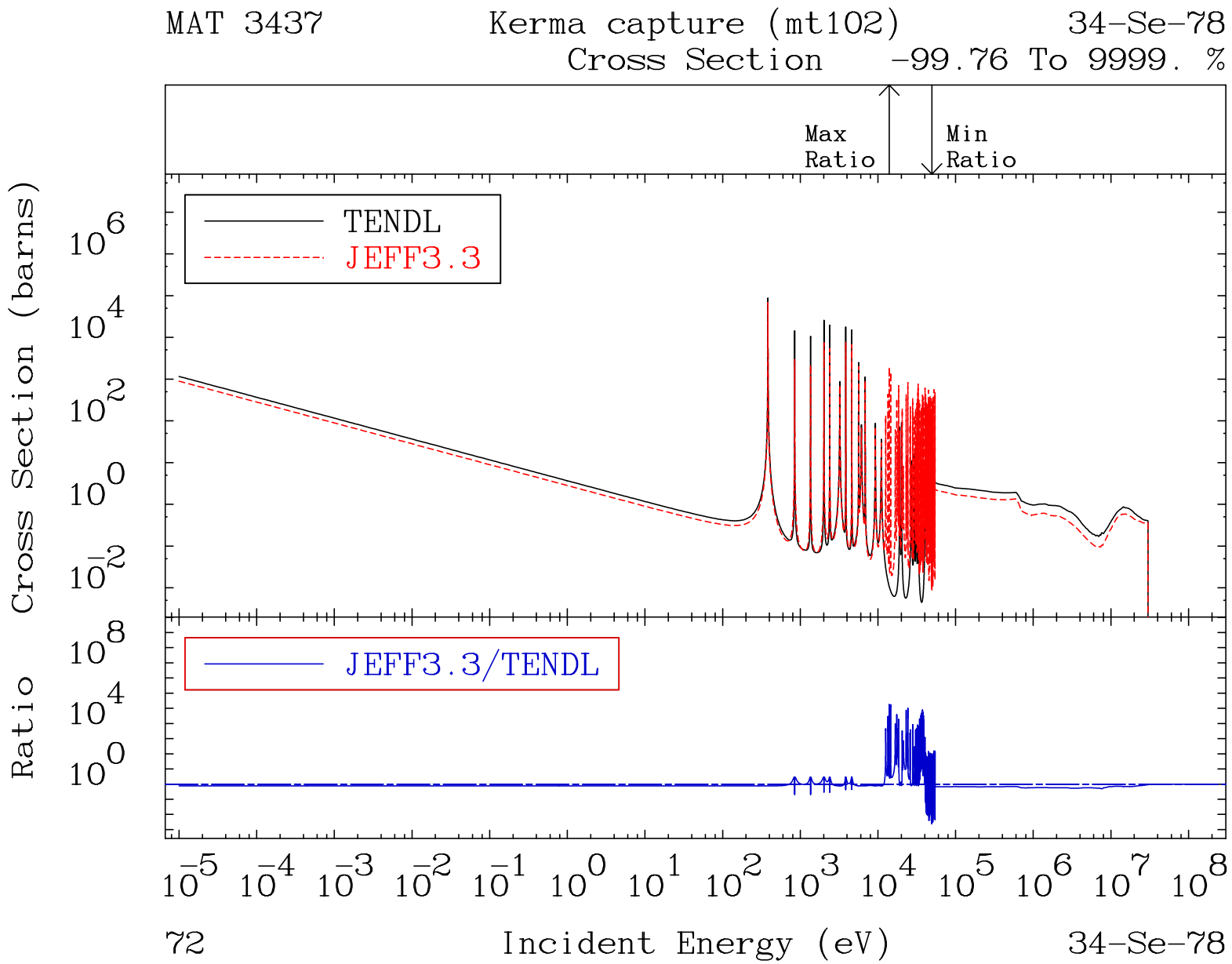

MAT 3437
Kerma total (eV-barns)
34-Se-78
Cross Section -99.67 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
34-Se-78

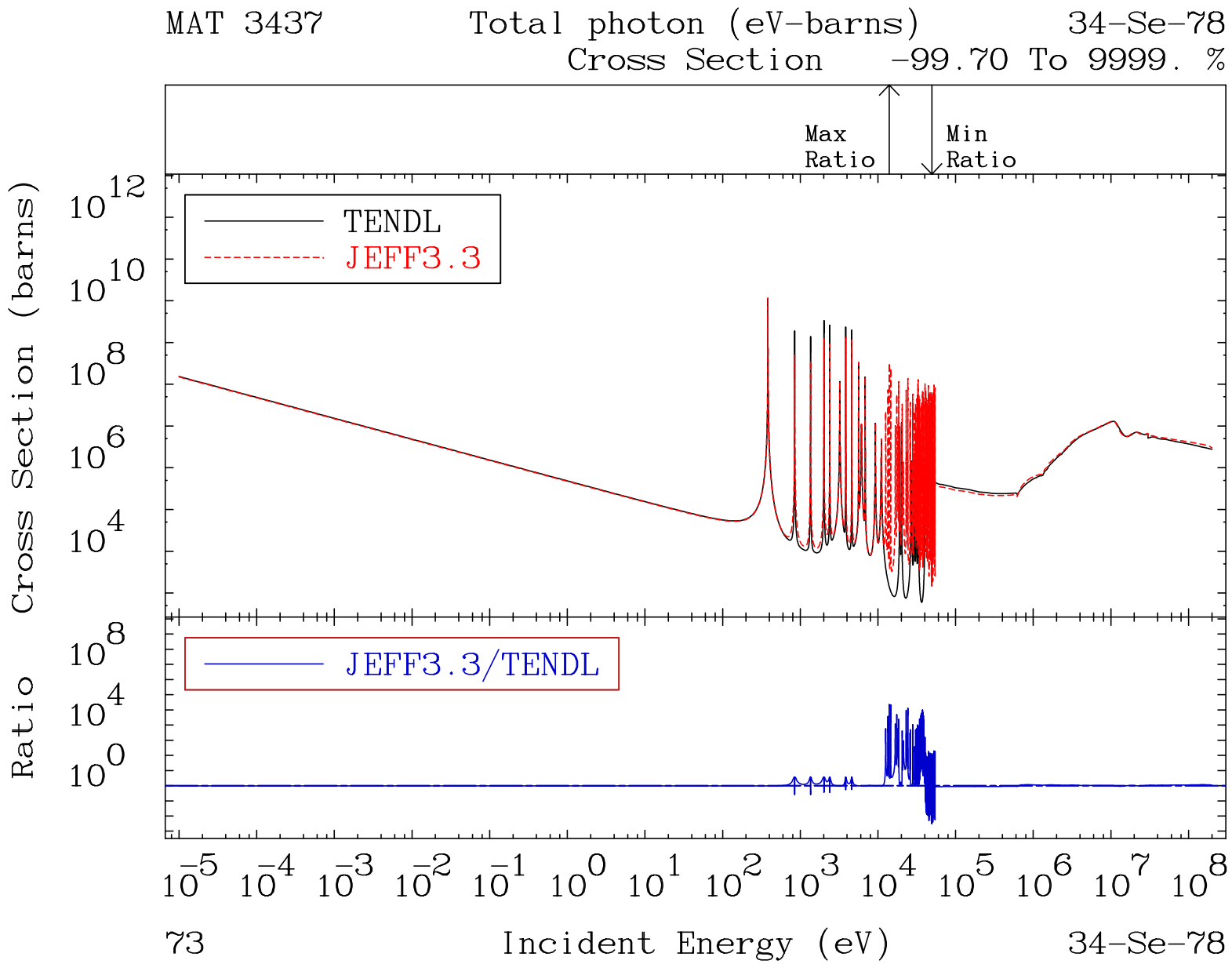

MAT 3437
Kerma elastic
Cross Section
34-Se-78
-99.87 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
34-Se-78

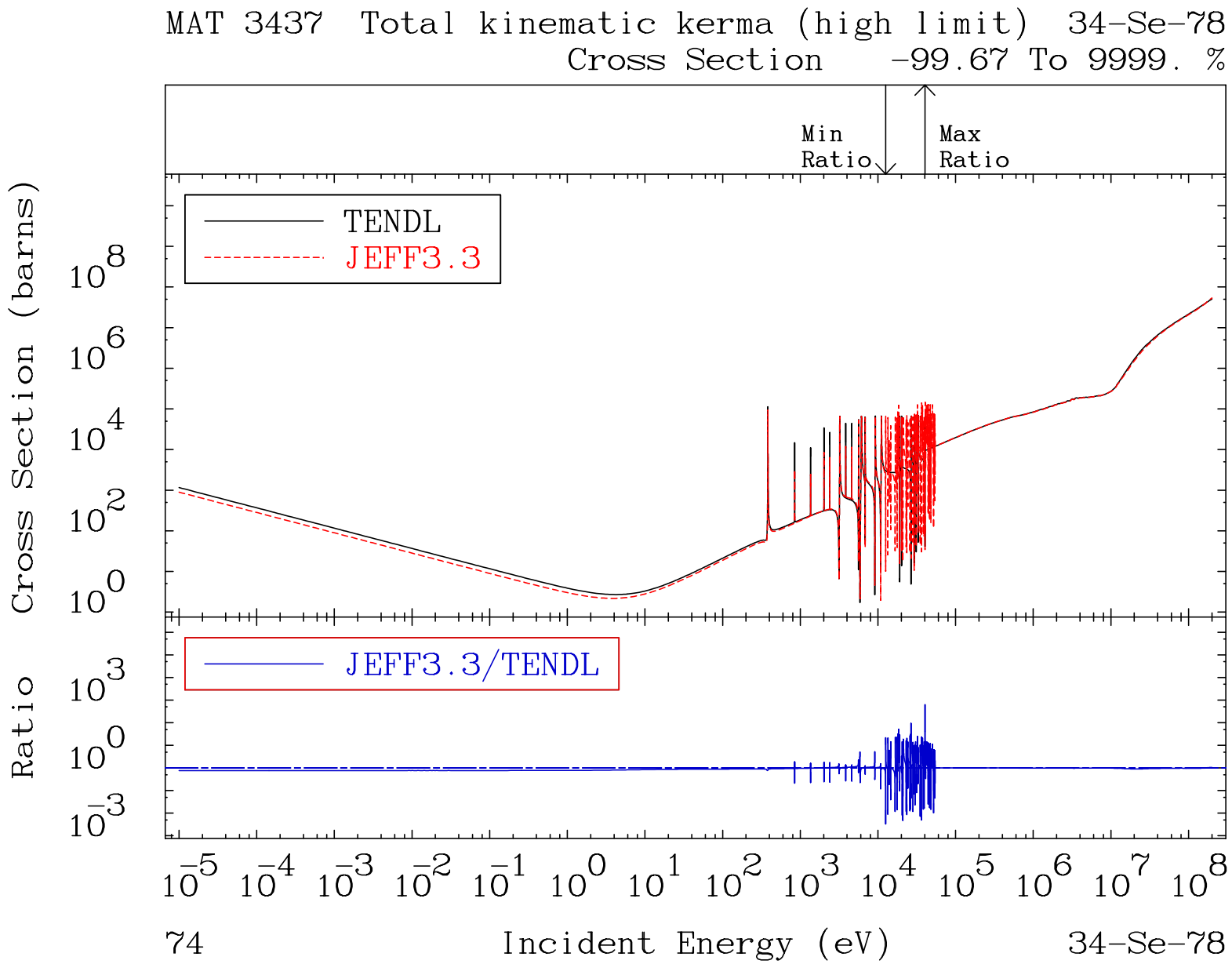

MAT 3437 Kerma non-elastic (all but mt2) 34-Se-78
Cross Section -99.76 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
34-Se-78

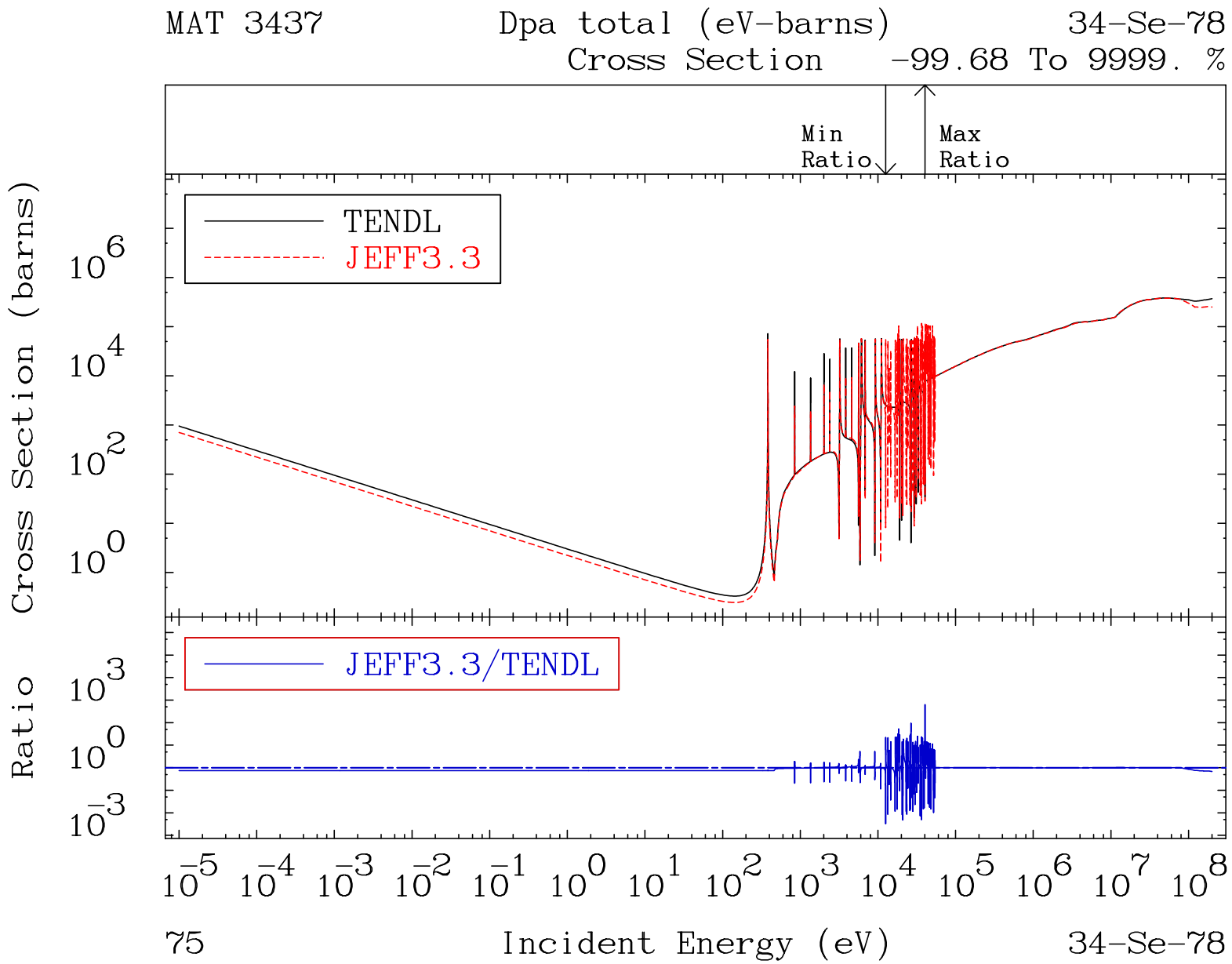

MAT 3437
Kerma inelastic (mt51-91)
34-Se-78
Cross Section -11.13 To 45.71 %
Max Ratio
Min Ratio
TENDL Threshold 621.67 keV
JEFF3.3 Threshold 621.67 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
34-Se-78

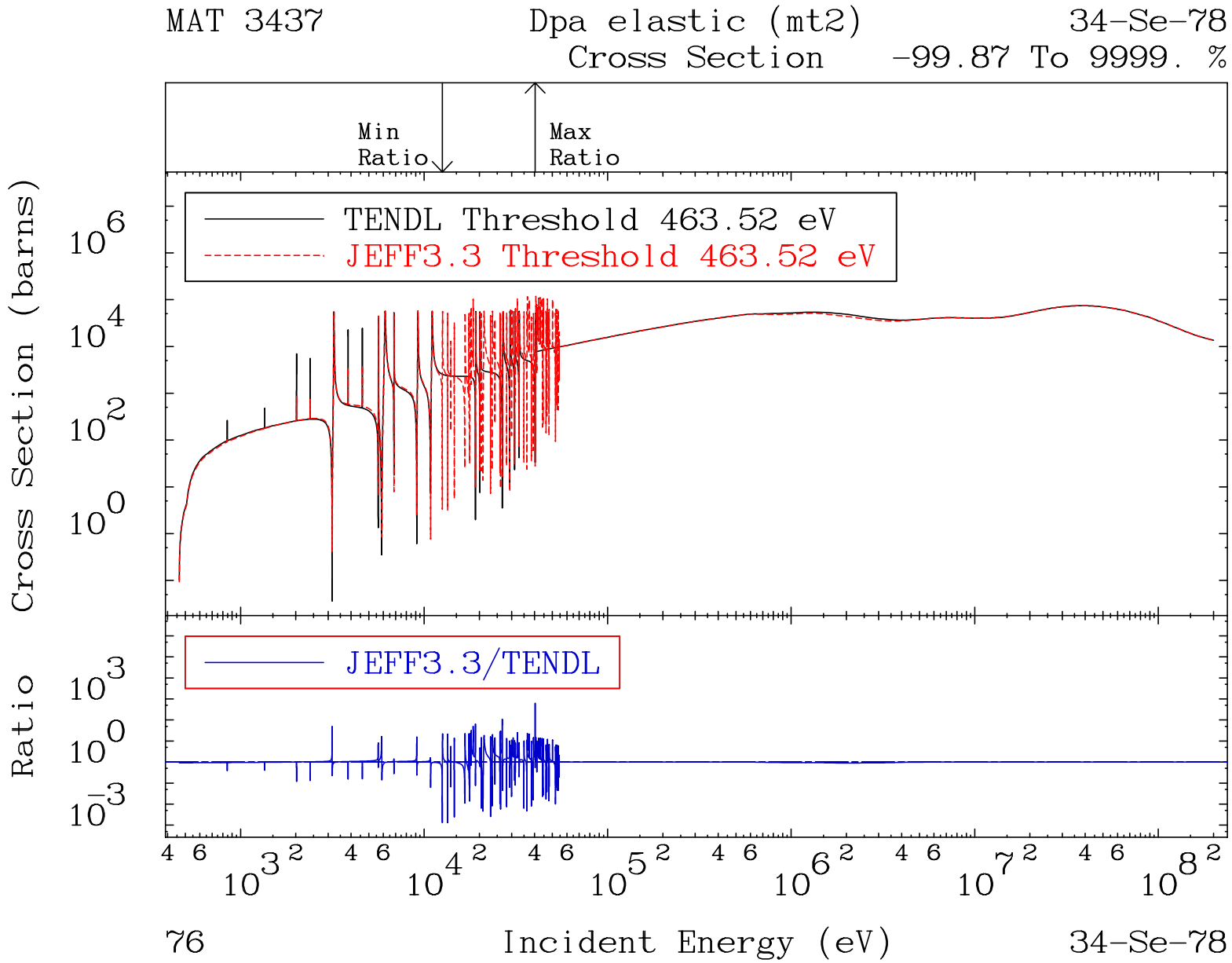

MAT 3437 Kerma fission (mt18 or mt19-20-21-38) 34-Se-78
Cross Section -11.13 To 45.71 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.6
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
71
Incident Energy (eV)
34-Se-78

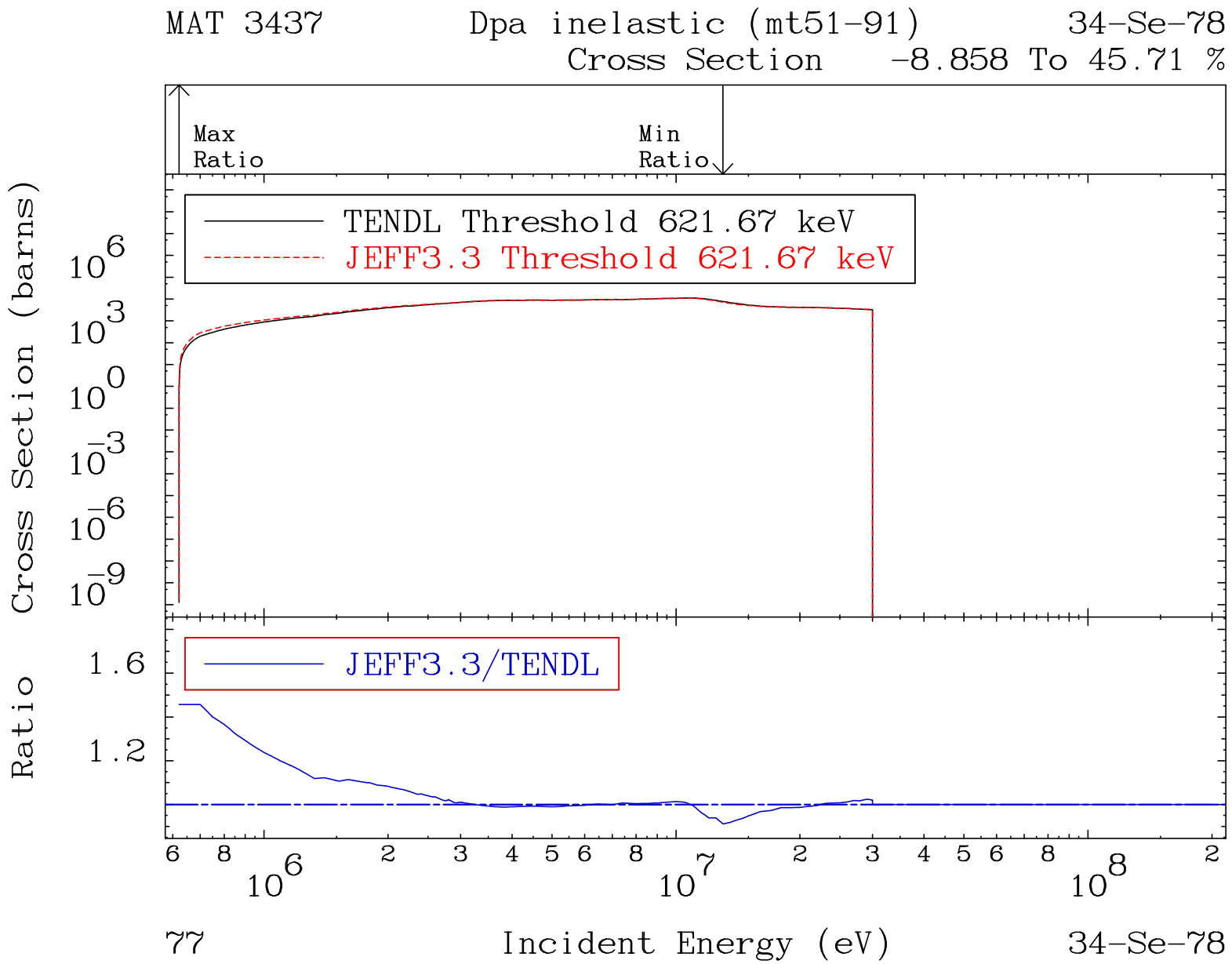

MAT 3437
Kerma capture (mt102)
34-Se-78
Cross Section -99.76 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
34-Se-78

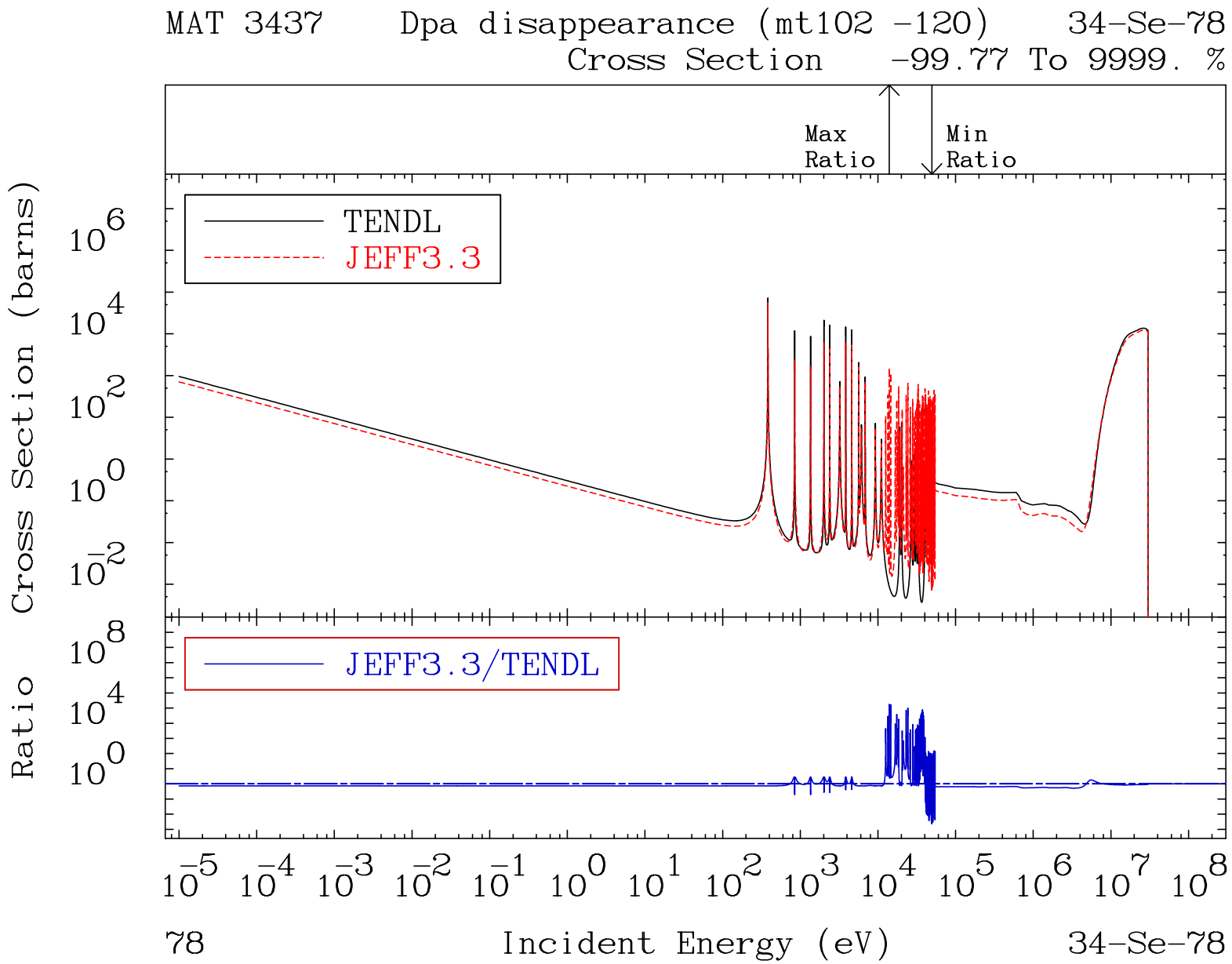

MAT 3437
Total photon (eV-barns)
34-Se-78
Cross Section -99.70 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73
34-Se-78

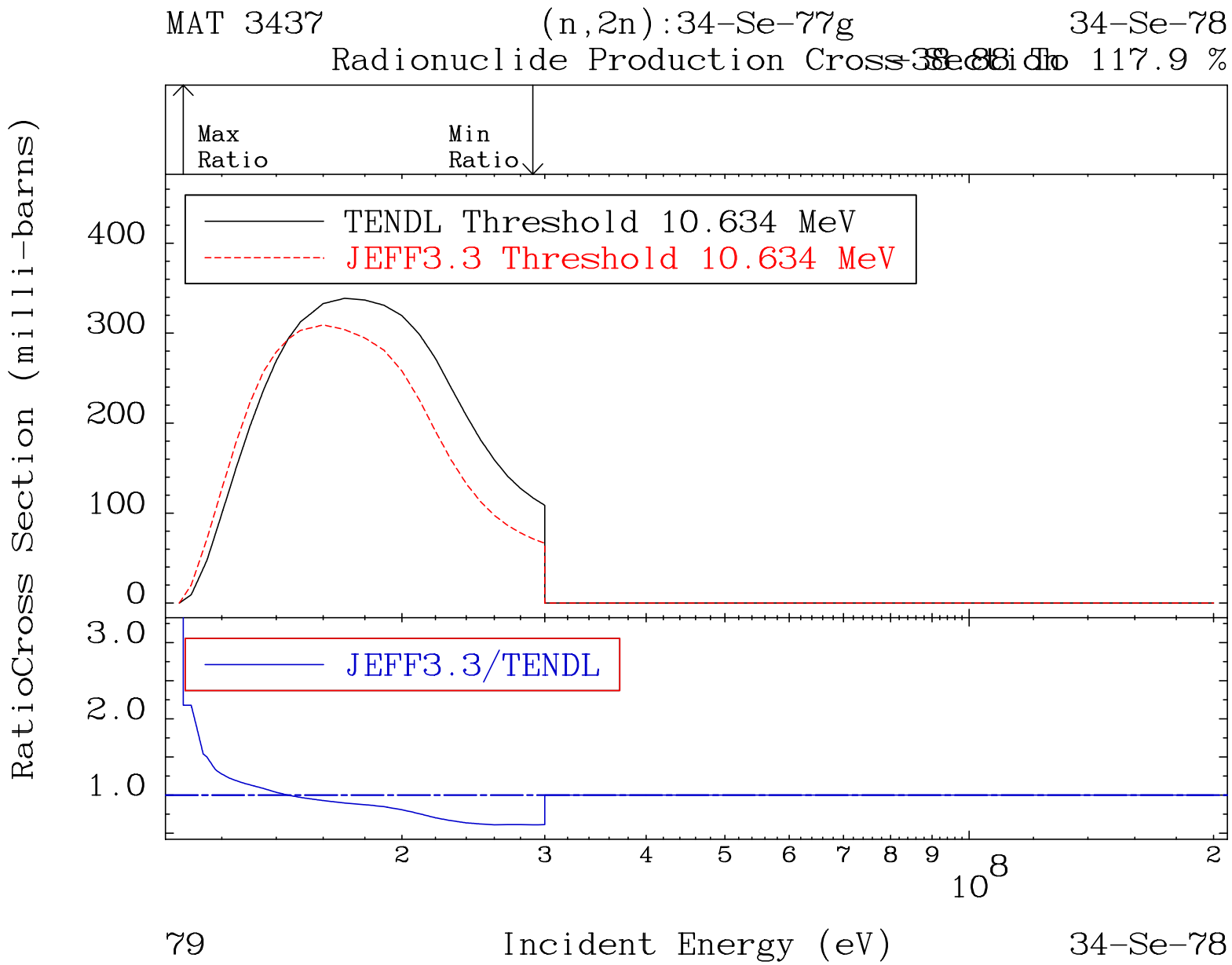

MAT 3437 Total kinematic kerma (high limit) 34-Se-78
Cross Section -99.67 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
34-Se-78

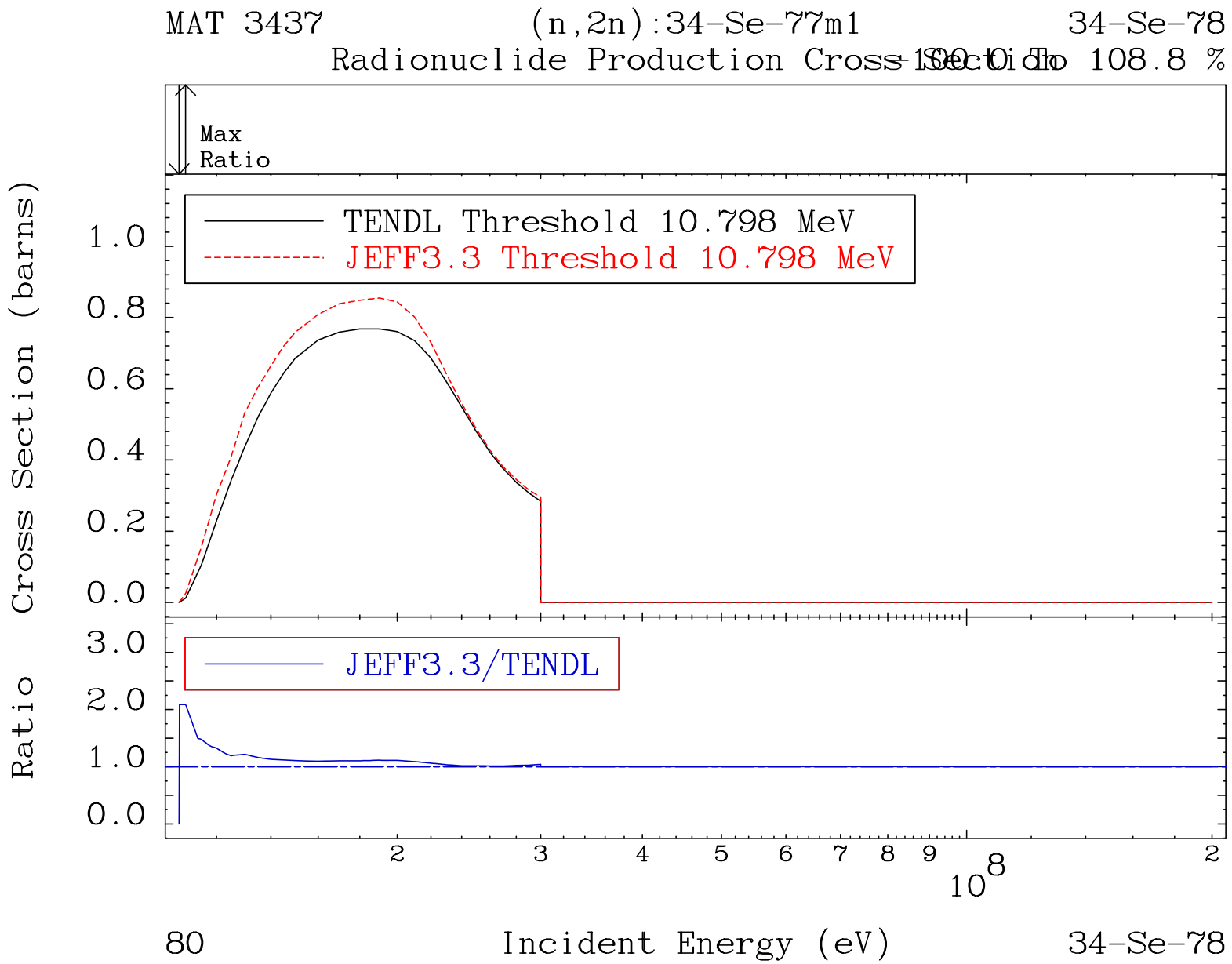

MAT 3437
Dpa total (eV-barns)
34-Se-78
Cross Section -99.68 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
34-Se-78

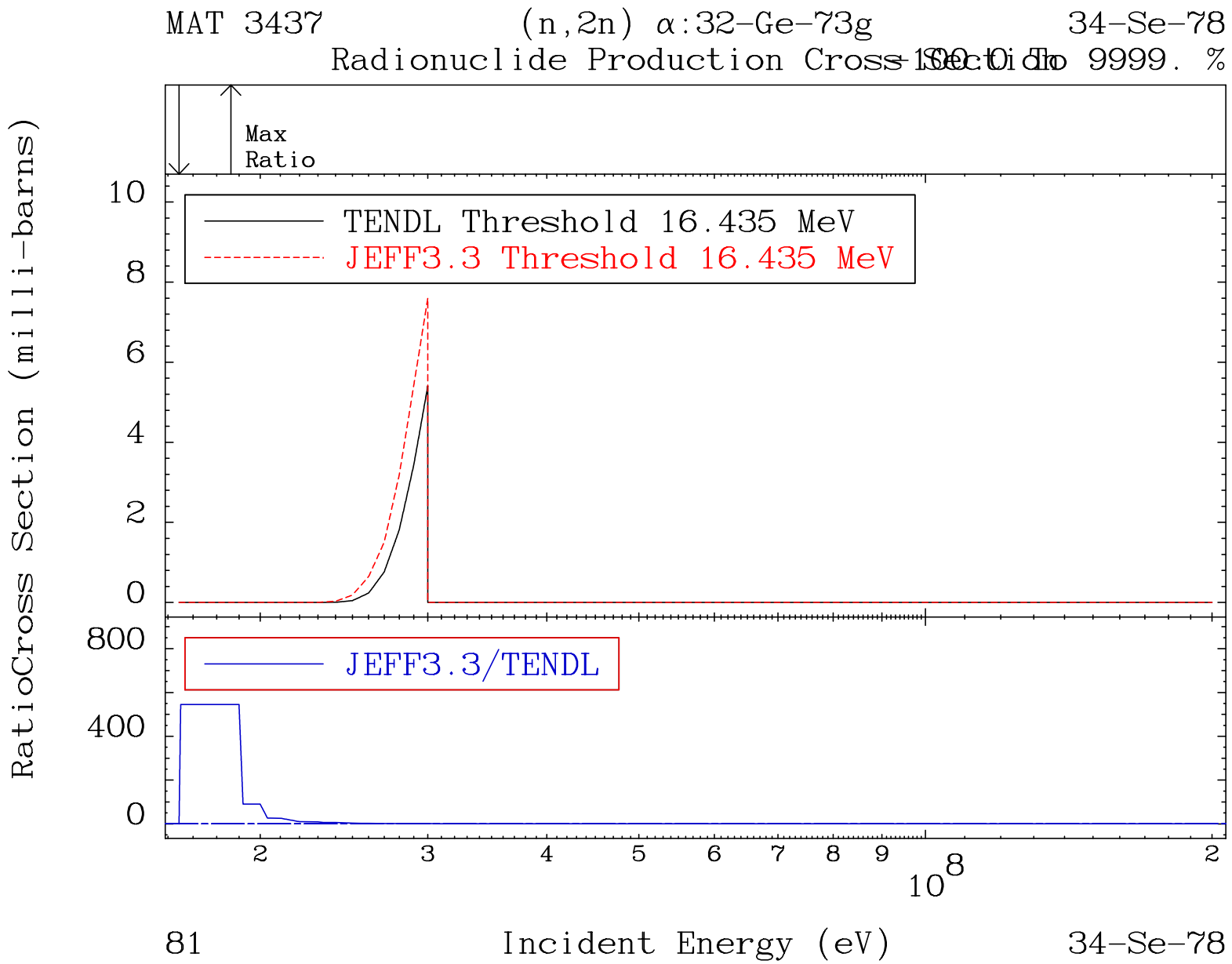

MAT 3437
Dpa elastic (mt2)
Cross Section
34-Se-78
-99.87 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 463.52 eV
JEFF3.3 Threshold 463.52 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
34-Se-78

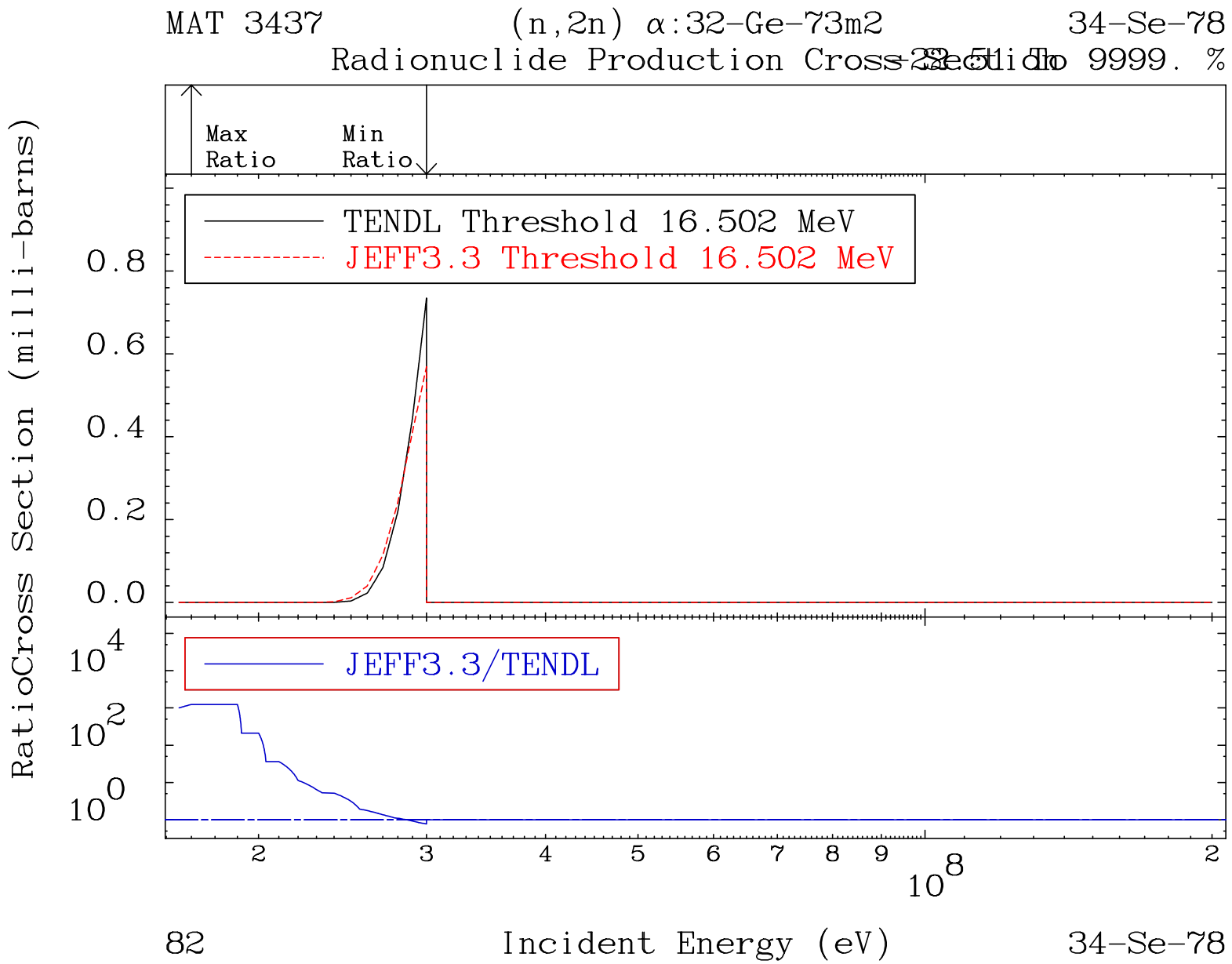

MAT 3437
Dpa inelastic (mt51-91)
34-Se-78
Cross Section
-8.858 To 45.71 %
Max Ratio
Min Ratio
TENDL Threshold 621.67 keV
JEFF3.3 Threshold 621.67 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
77
34-Se-78

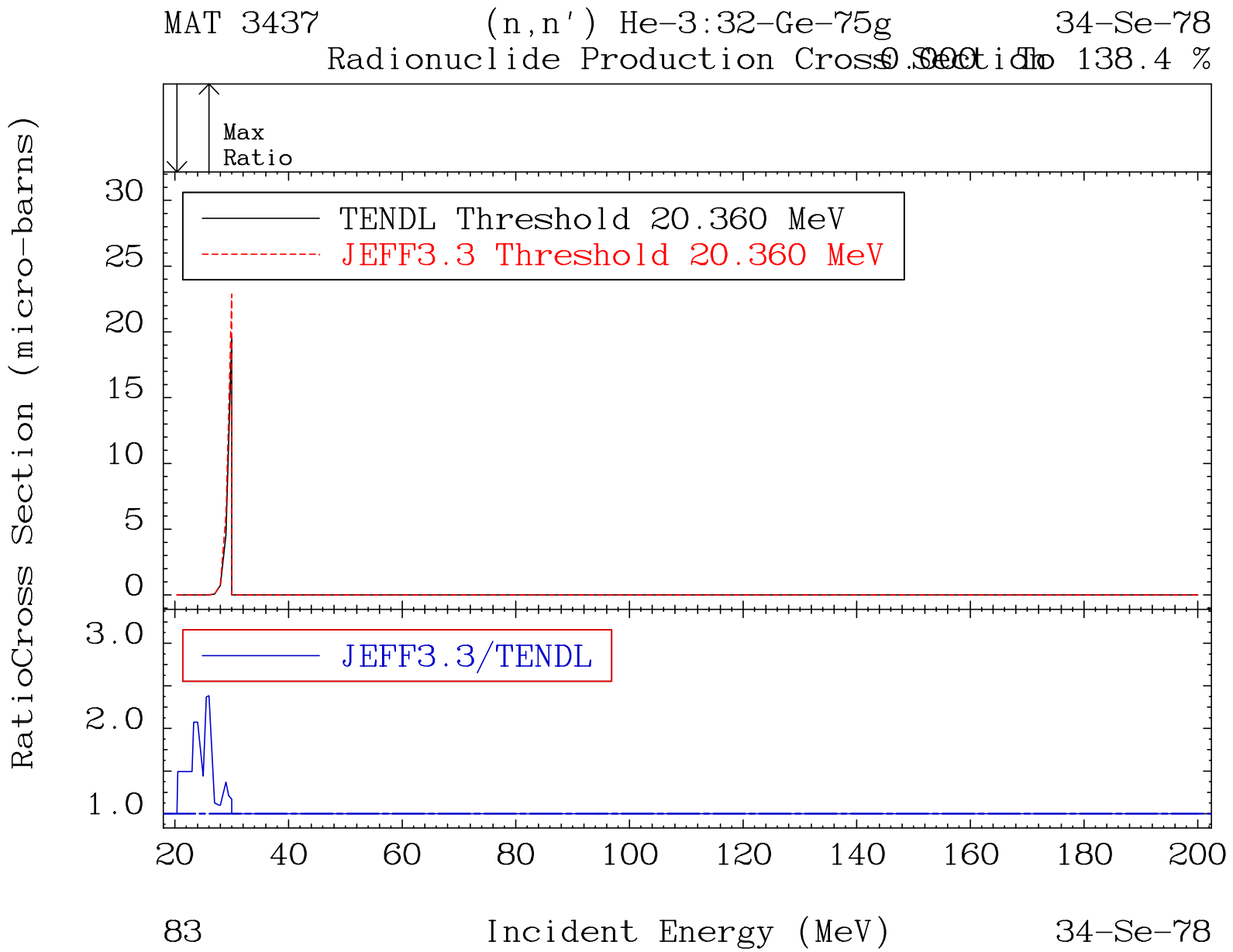

MAT 3437 Dpa disappearance (mt102 -120) 34-Se-78
Cross Section -99.77 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
78
34-Se-78

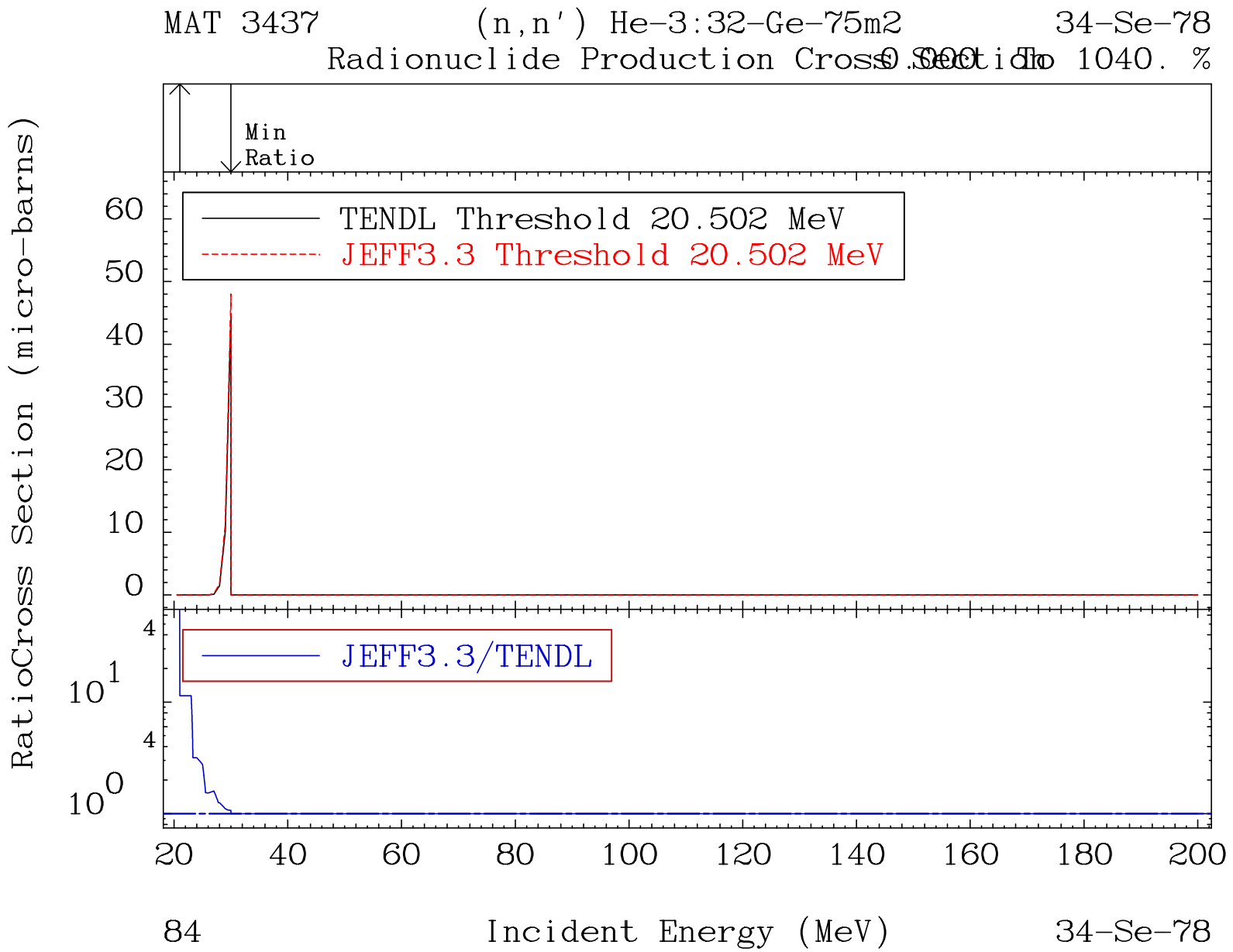

MAT 3437
(n,2n):34-Se-77g
34-Se-78
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 10.634 MeV
JEFF3.3 Threshold 10.634 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
79
34-Se-78

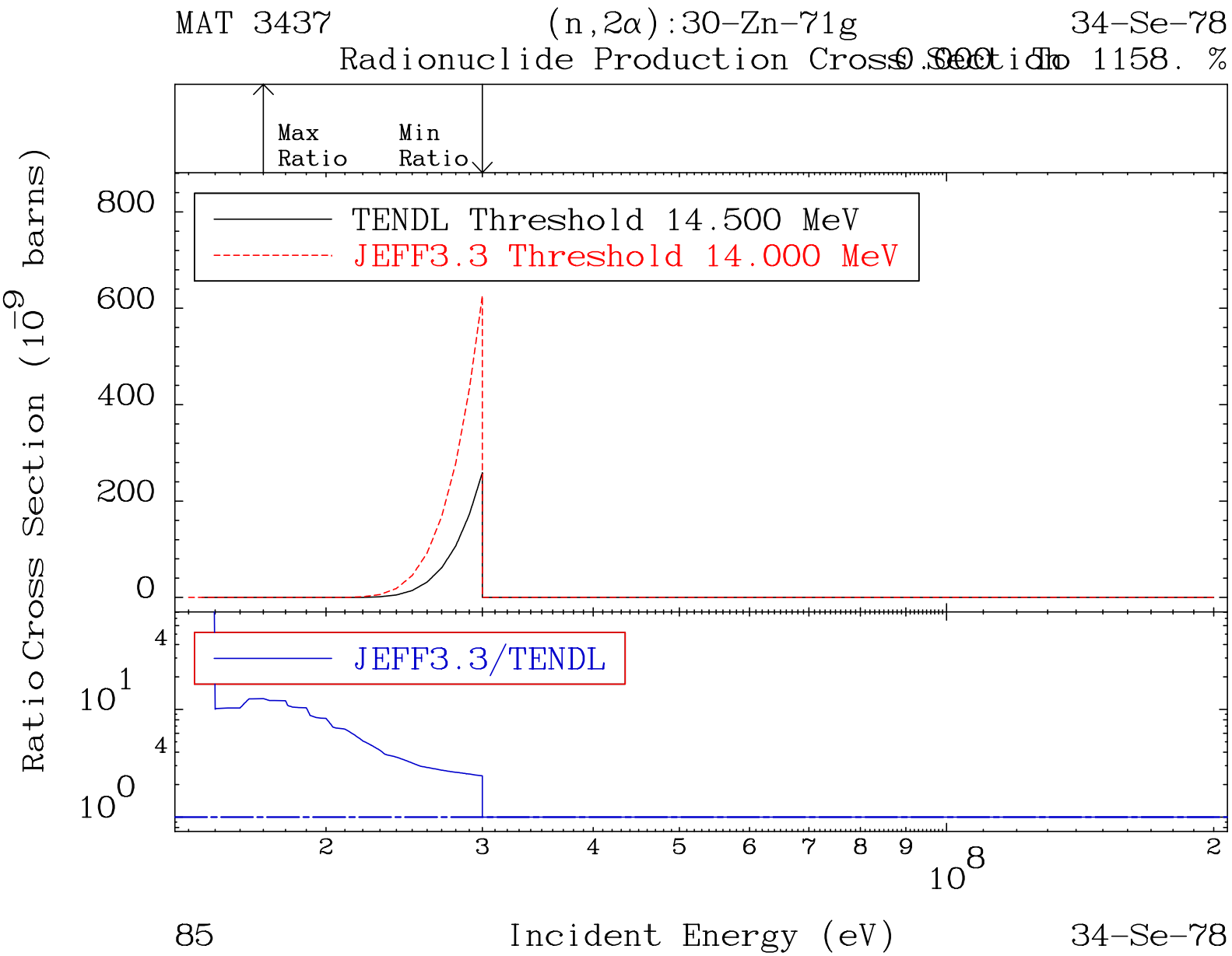

MAT 3437
(n,2n):34-Se-77m1
34-Se-78
Radionuclide Production Cross Section
Max Ratio
TENDL Threshold 10.798 MeV
JEFF3.3 Threshold 10.798 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
80
Incident Energy (eV)
34-Se-78

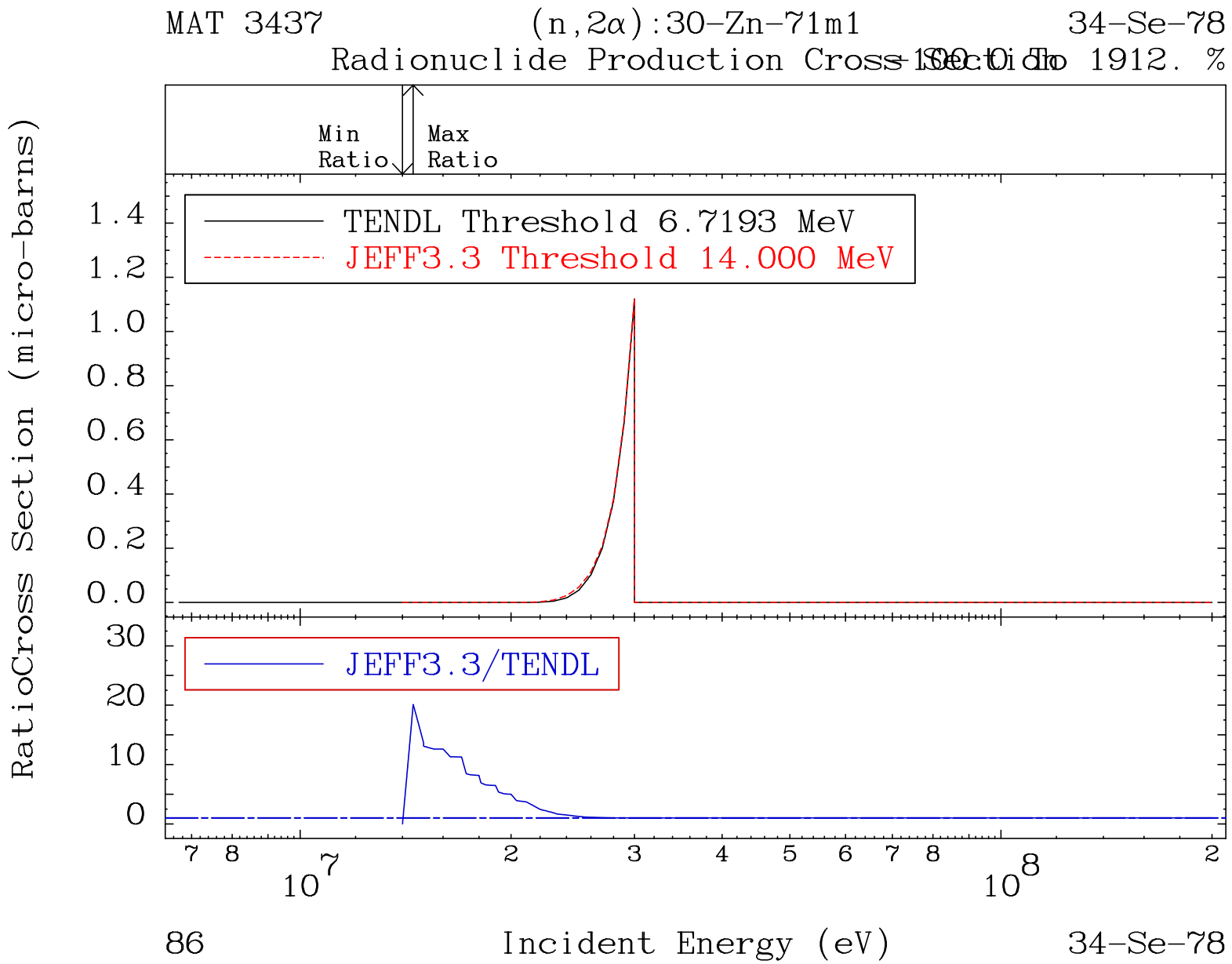

MAT 3437
(n,2n) α:32-Ge-73g
34-Se-78
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 16.435 MeV
JEFF3.3 Threshold 16.435 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
34-Se-78

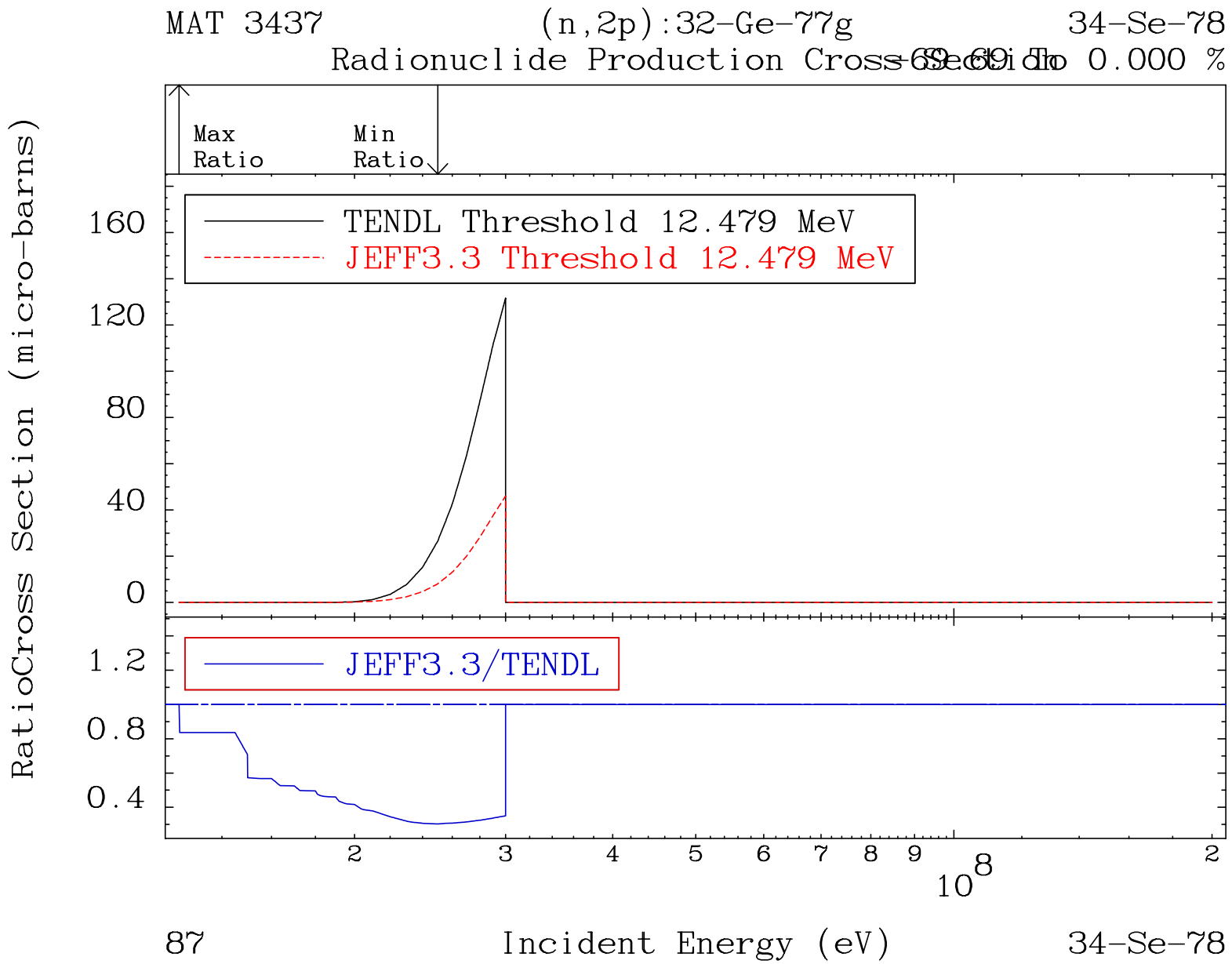

MAT 3437
(n,2n) α:32-Ge-73m2
34-Se-78
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 16.502 MeV
JEFF3.3 Threshold 16.502 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0.8
0.6
0.4
0.2
0.0
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
34-Se-78

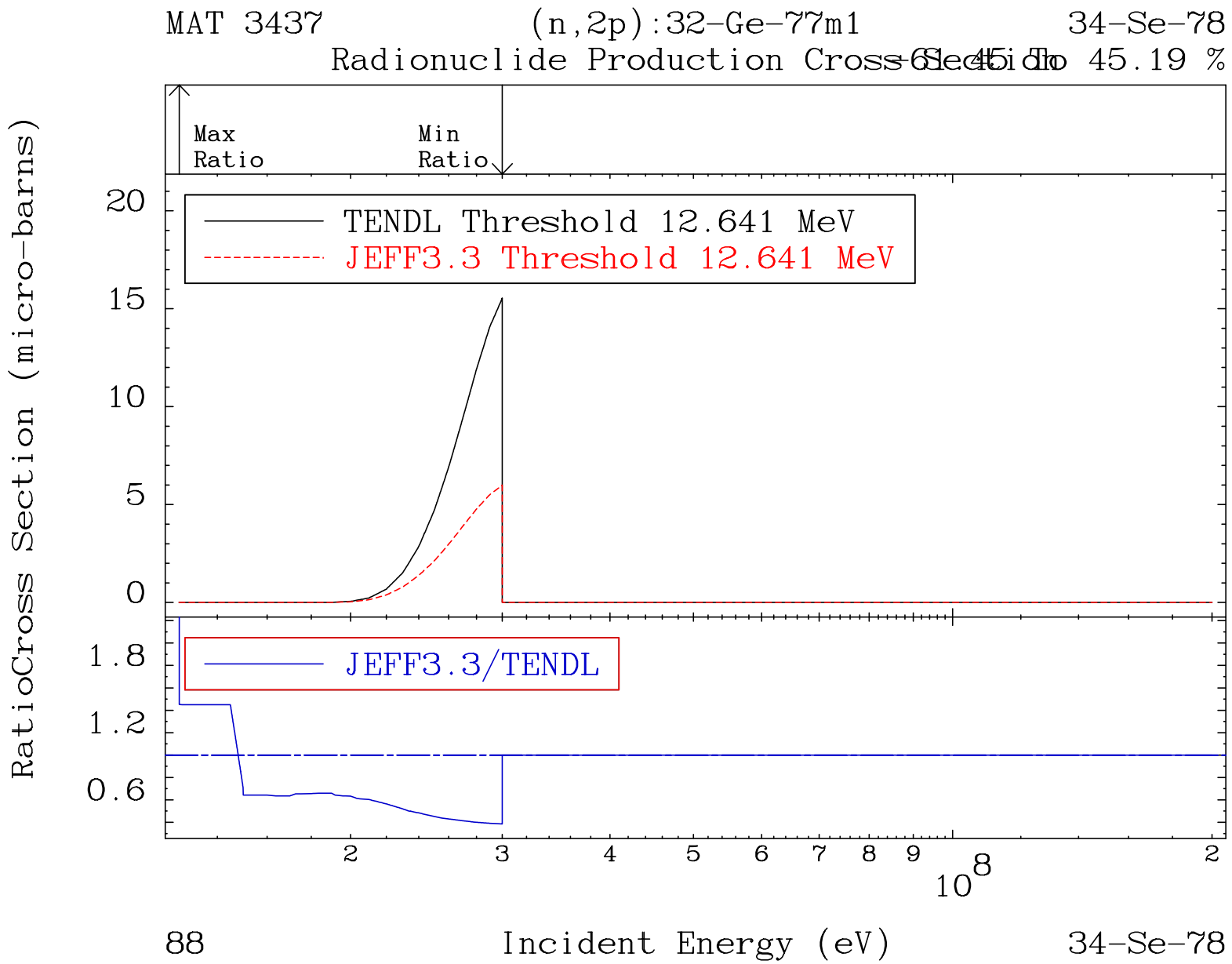

MAT 3437 (n,n') He-3:32-Ge-75g 34-Se-78
Radionuclide Production Cross Section To 138.4 %
Max
Ratio
TENDL Threshold 20.360 MeV
JEFF3.3 Threshold 20.360 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (MeV)
83
34-Se-78

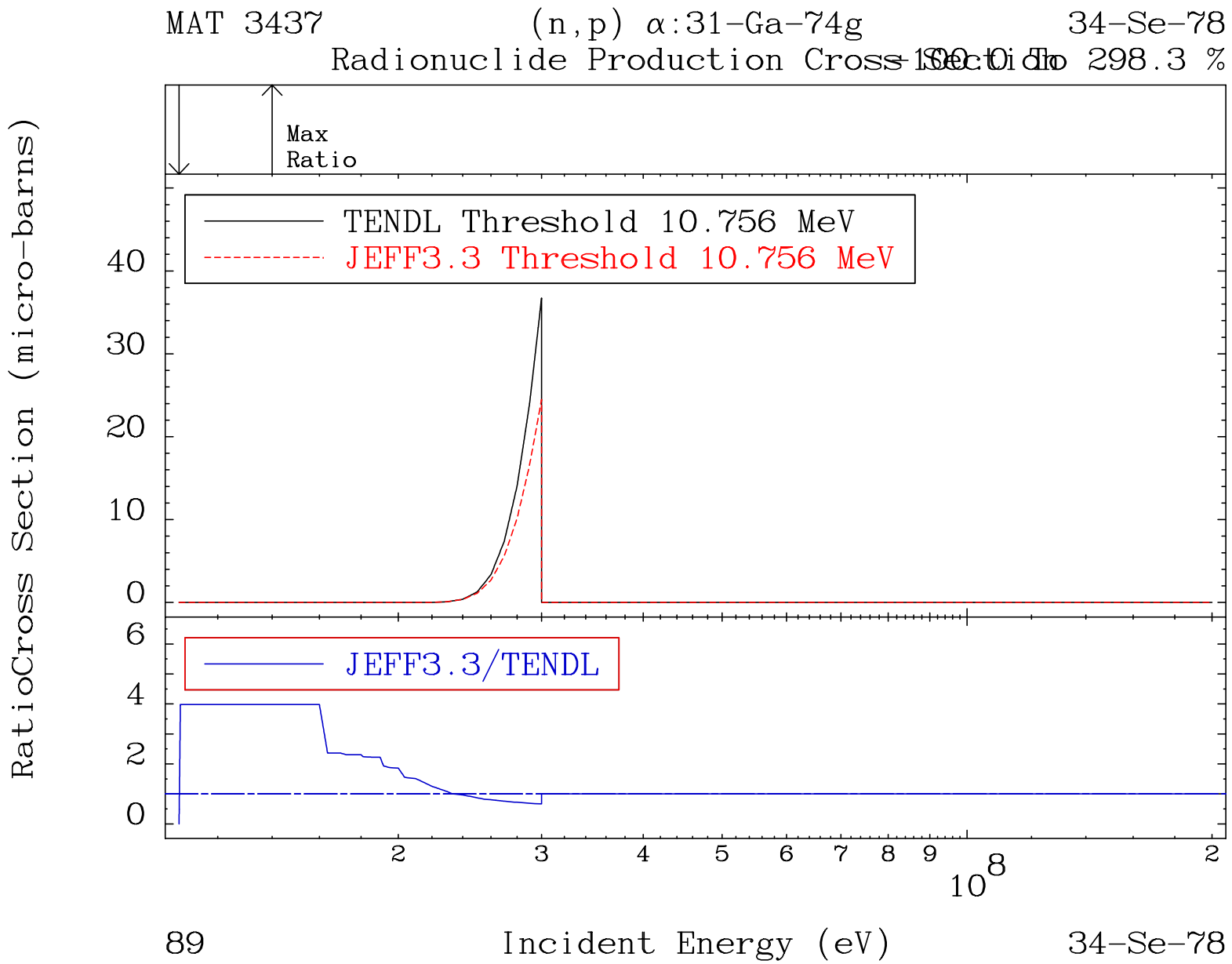

MAT 3437 (n,n') He-3:32-Ge-75m2 34-Se-78
Radionuclide Production Cross Section To 1040. %
Min
Ratio
TENDL Threshold 20.502 MeV
JEFF3.3 Threshold 20.502 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (MeV)
84
34-Se-78

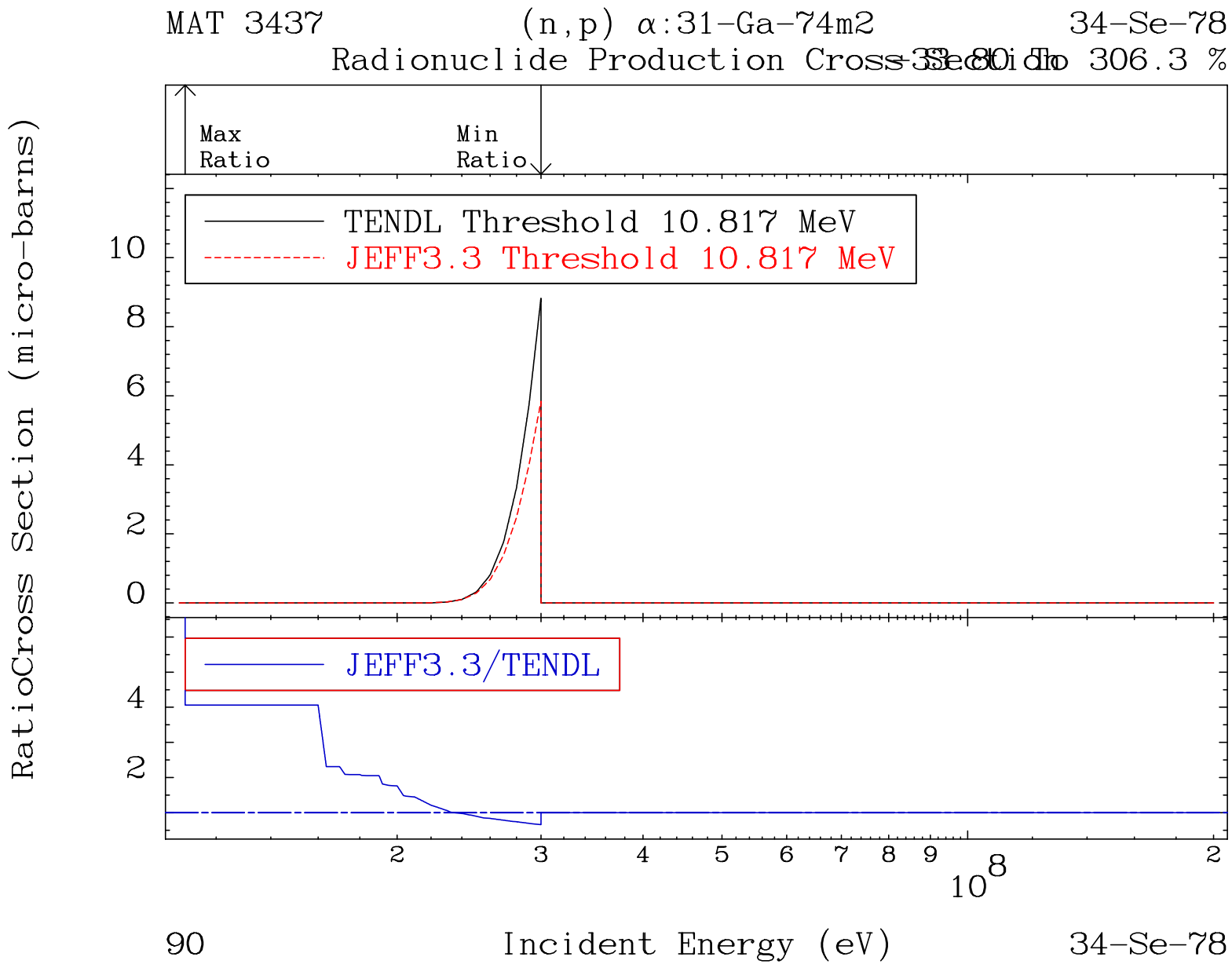

MAT 3437
(n,2α):30-Zn-71g
34-Se-78
Radionuclide Production Cross Section
0.000 To 1158. %
Max Ratio
Min Ratio
TENDL Threshold 14.500 MeV
JEFF3.3 Threshold 14.000 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
800
600
400
200
0
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
34-Se-78

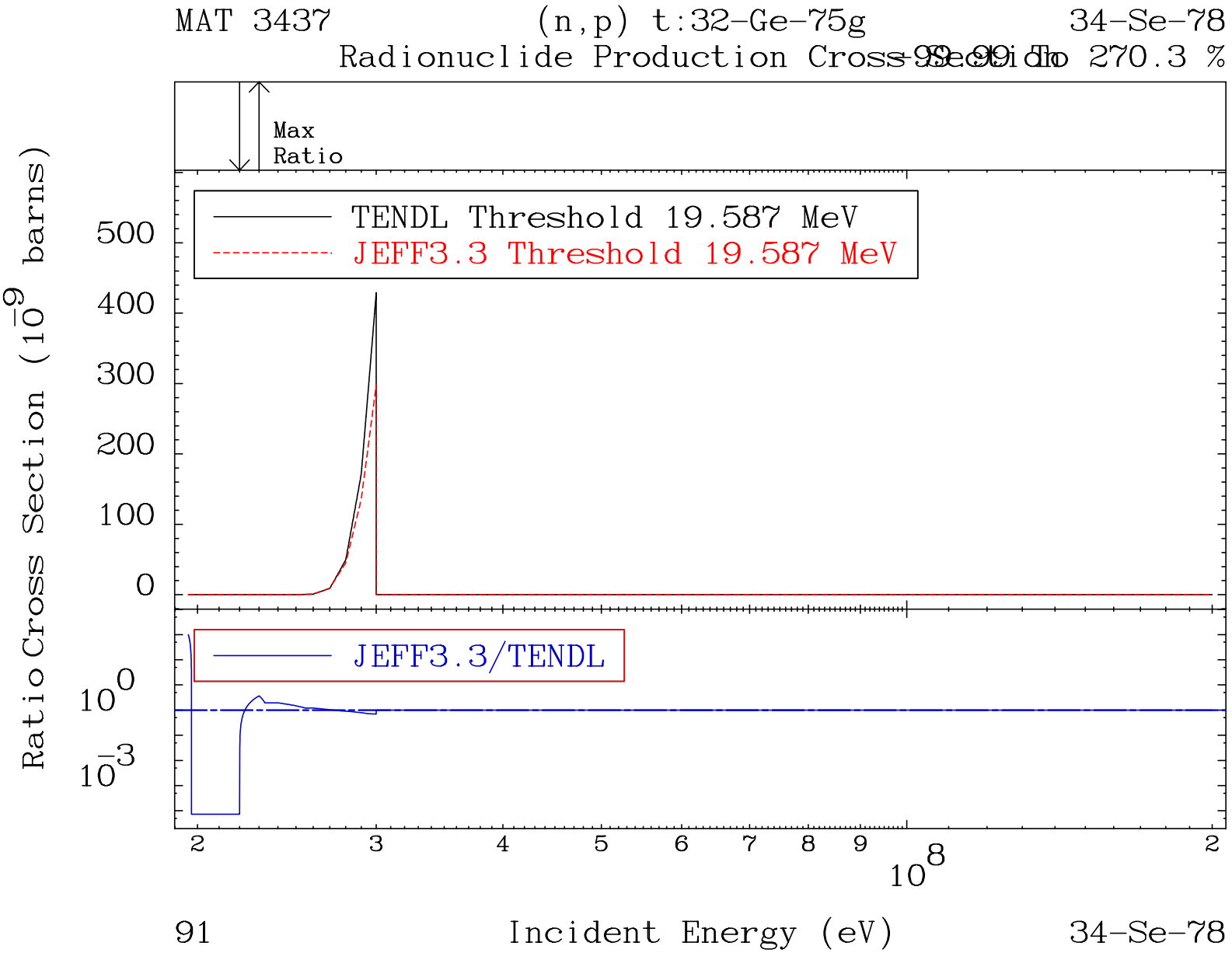

MAT 3437
(n,2α):30-Zn-71m1
34-Se-78
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 6.7193 MeV
JEFF3.3 Threshold 14.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
86
34-Se-78

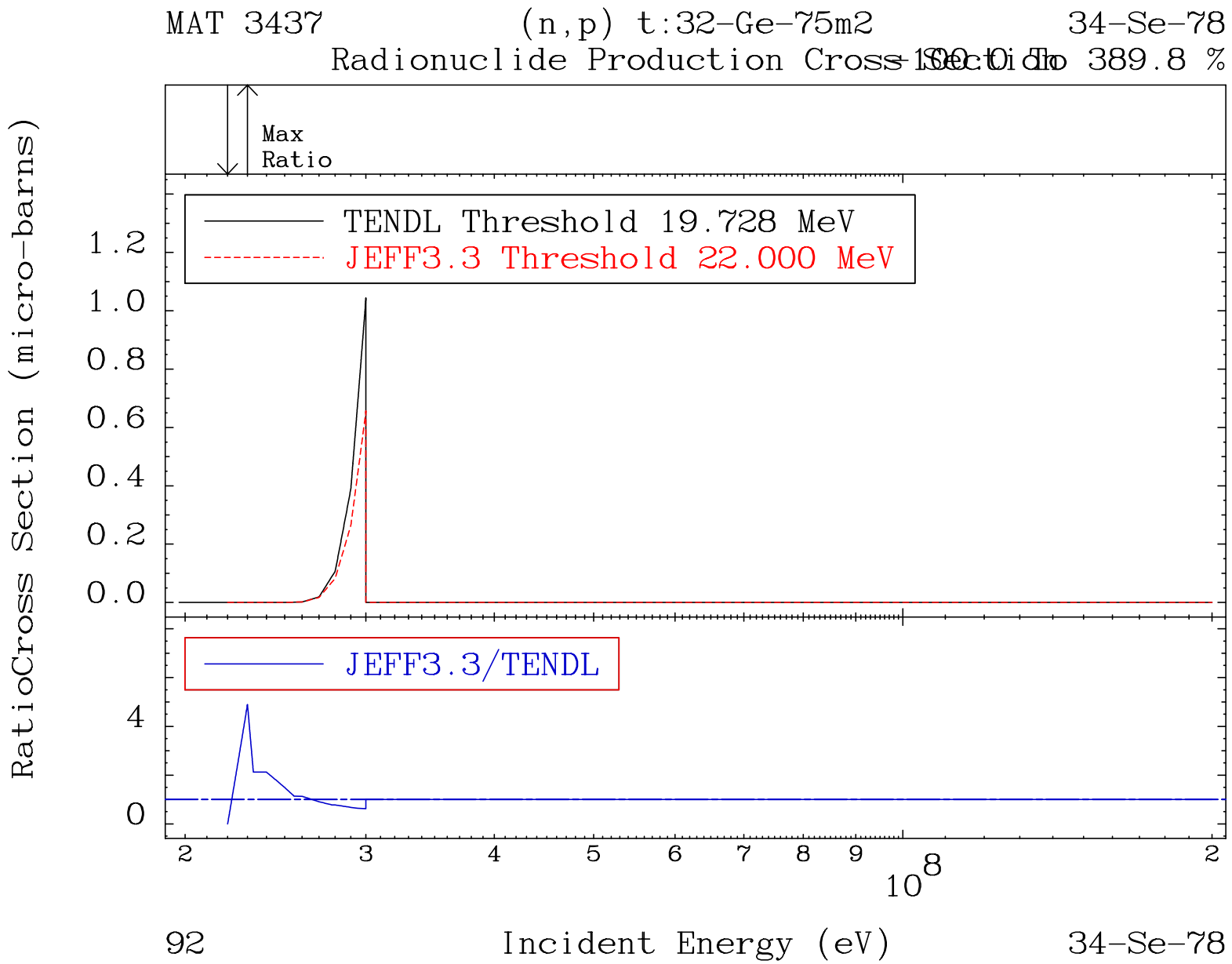

MAT 3437
(n,2p):32-Ge-77g
34-Se-78
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 12.479 MeV
JEFF3.3 Threshold 12.479 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
160
120
80
40
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
34-Se-78


MAT 3437
(n,2p):32-Ge-77m1
34-Se-78
Radionuclide Production Cross Section To 45.19 %
Max Ratio
Min Ratio
TENDL Threshold 12.641 MeV
JEFF3.3 Threshold 12.641 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
20
15
10
5
0
1.8
1.2
0.6
2
3
4
5
6
7
8
9
2
10^8
88
Incident Energy (eV)
34-Se-78


MAT 3437
(n,p) α:31-Ga-74g
34-Se-78
Radionuclide Production Cross Section To 298.3 %
Max
Ratio
TENDL Threshold 10.756 MeV
JEFF3.3 Threshold 10.756 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
40
30
20
10
0
6
4
2
0
2
3
4
5
6
7
8
9
2
10^8
89
Incident Energy (eV)
34-Se-78


MAT 3437
(n,p) α:31-Ga-74m2
34-Se-78
Radionuclide Production Cross Section To 306.3 %
Max Ratio
Min Ratio
TENDL Threshold 10.817 MeV
JEFF3.3 Threshold 10.817 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
90
34-Se-78


MAT 3437
(n,p) t:32-Ge-75g
34-Se-78
Radionuclide Production Cross Section To 270.3 %
Max
Ratio
TENDL Threshold 19.587 MeV
JEFF3.3 Threshold 19.587 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
500
400
300
200
100
0
10^{0}
10^{-3}
2
3
4
5
6
7
8
9
10^{8}
2
91
Incident Energy (eV)
34-Se-78


MAT 3437 (n,p) t:32-Ge-75m2 34-Se-78
Radionuclide Production Cross Section To 389.8 %
Max
Ratio
TENDL Threshold 19.728 MeV
JEFF3.3 Threshold 22.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
0
2
3
4
5
6
7
8
9
10^8
2
92
Incident Energy (eV)
34-Se-78