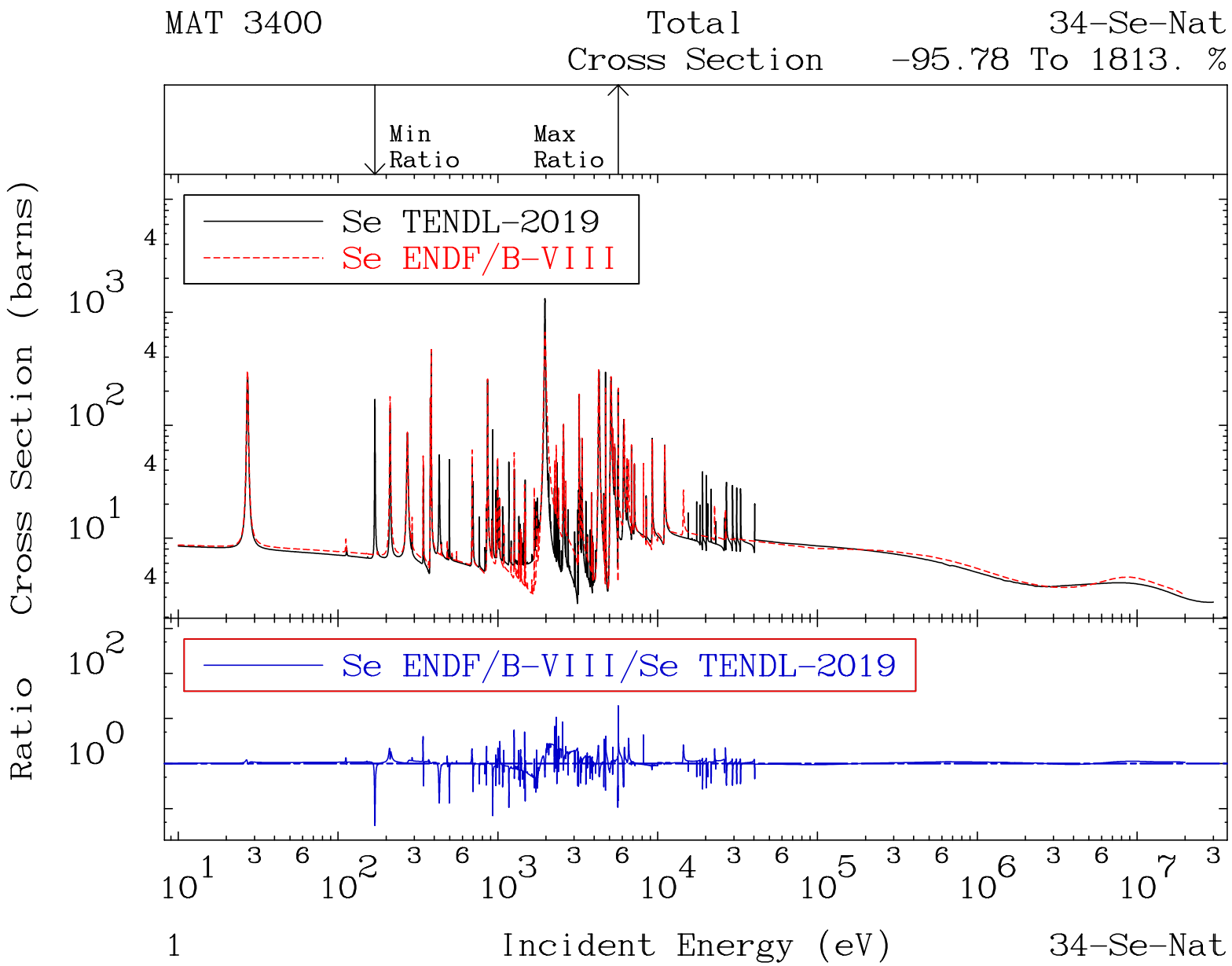
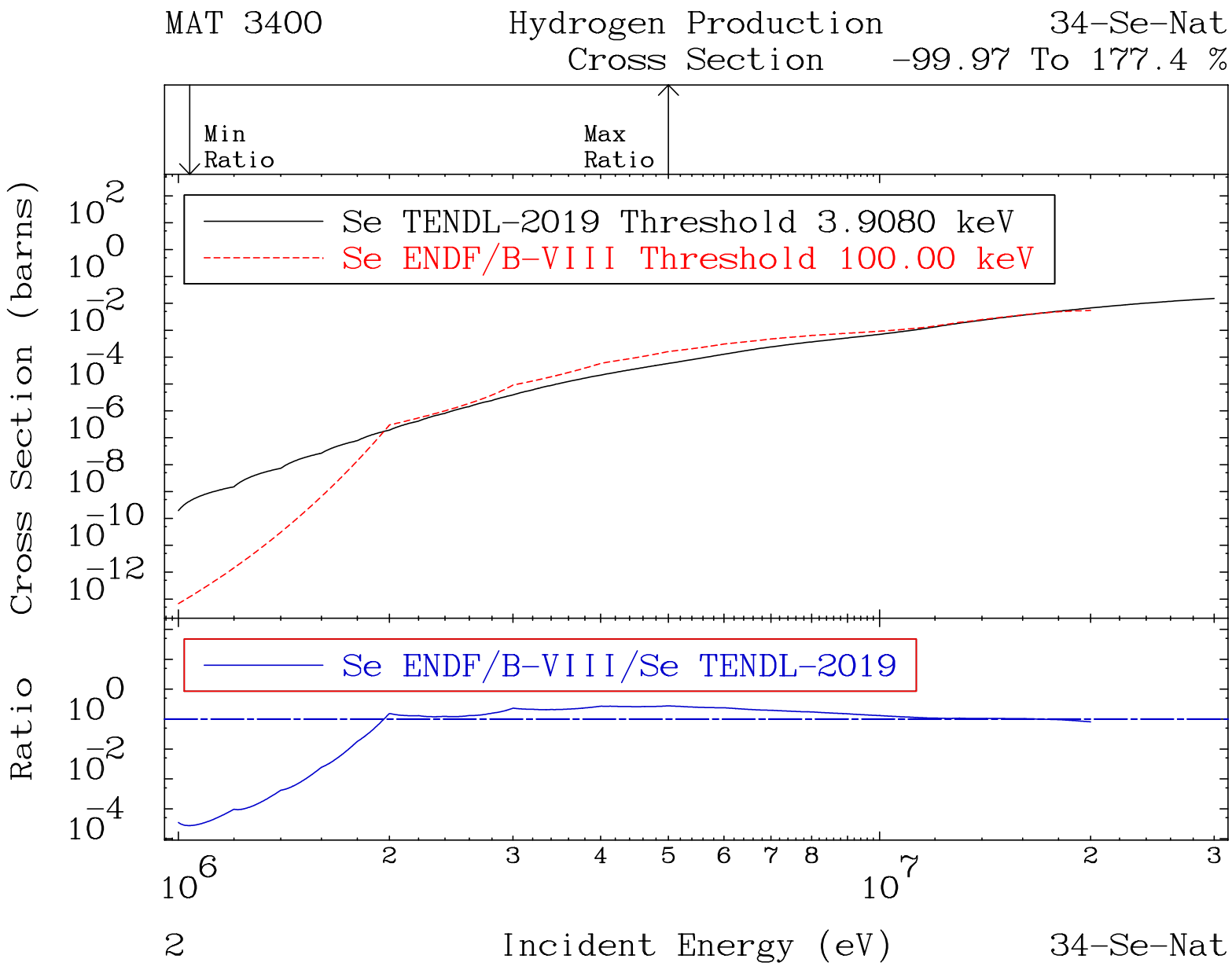
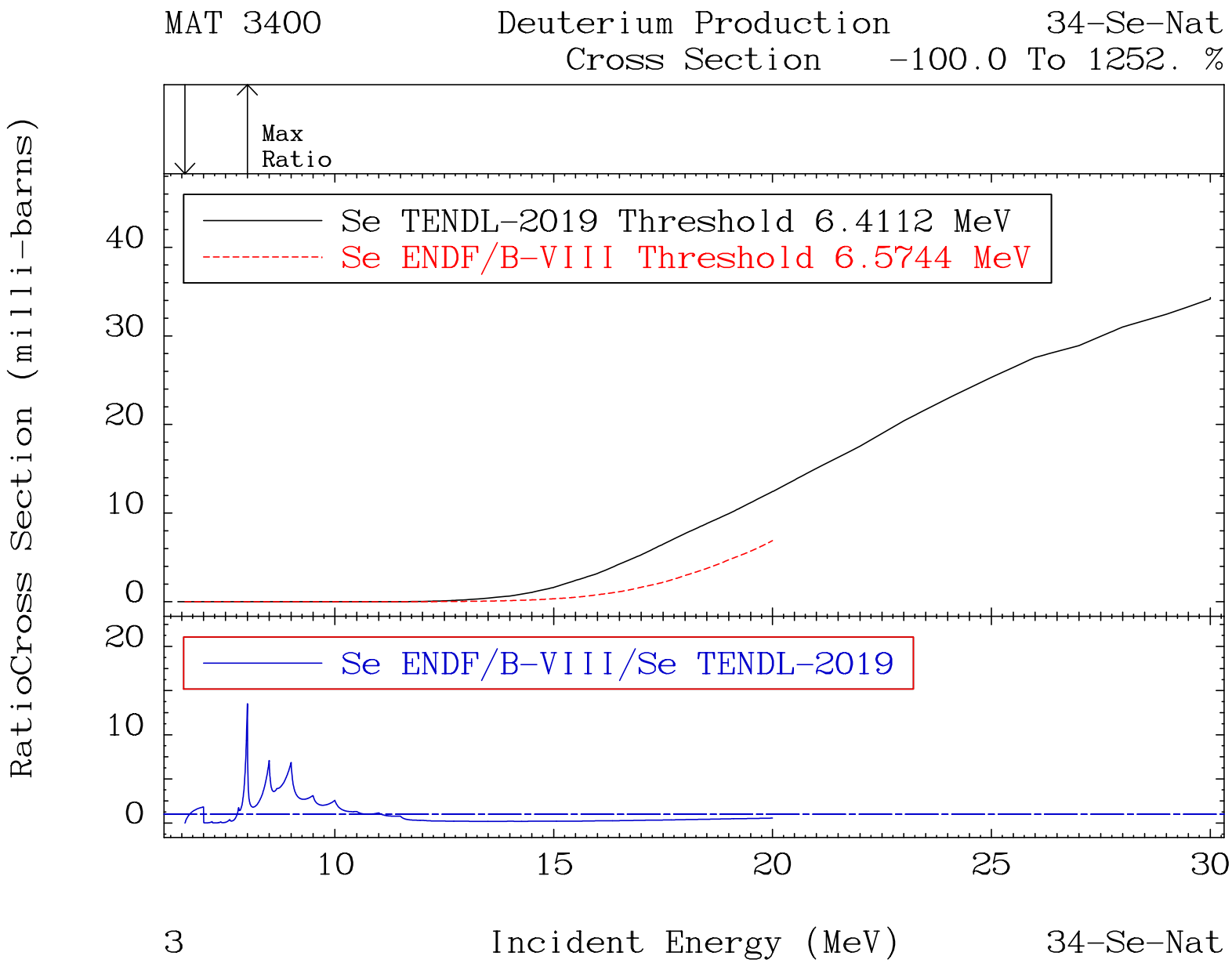
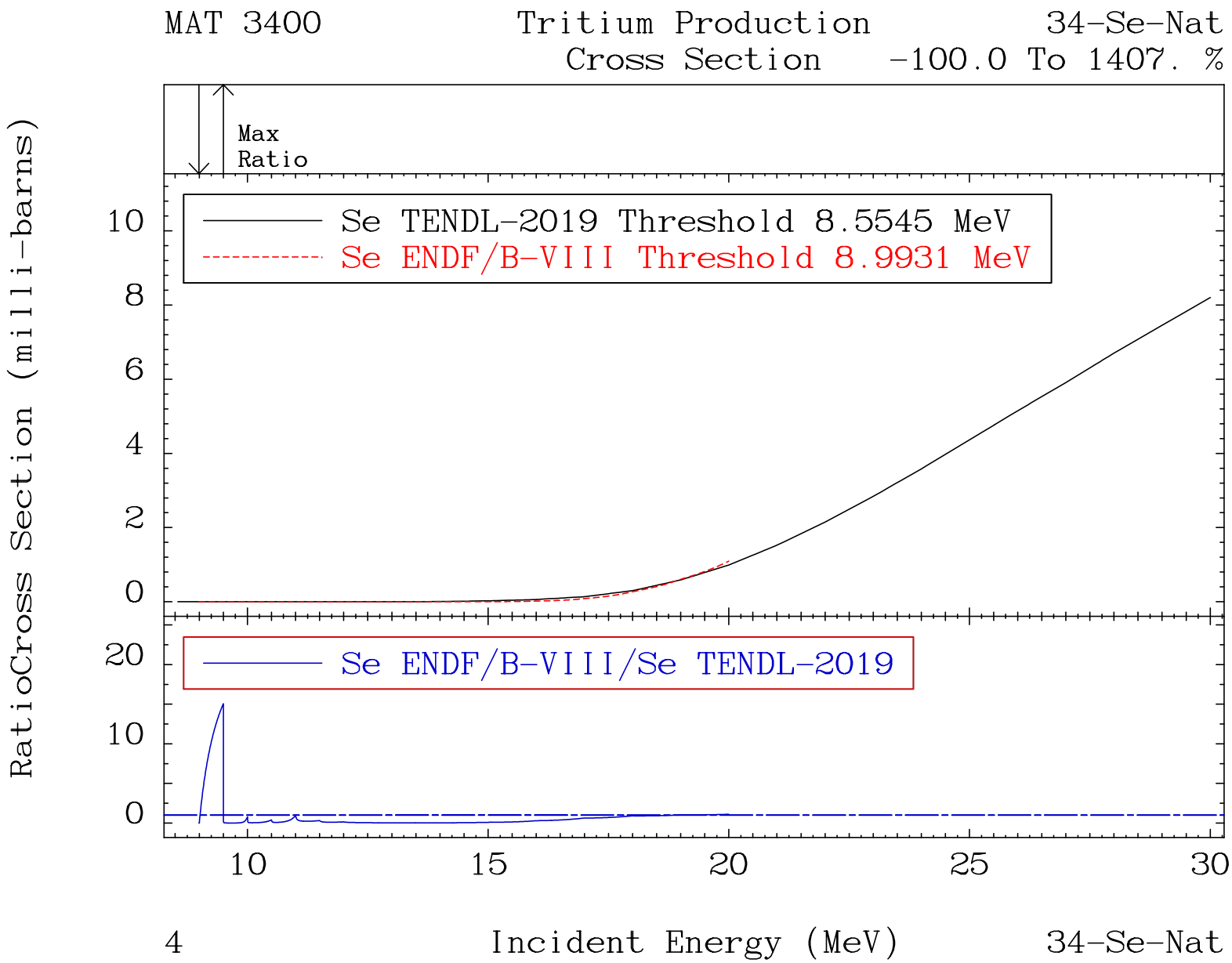
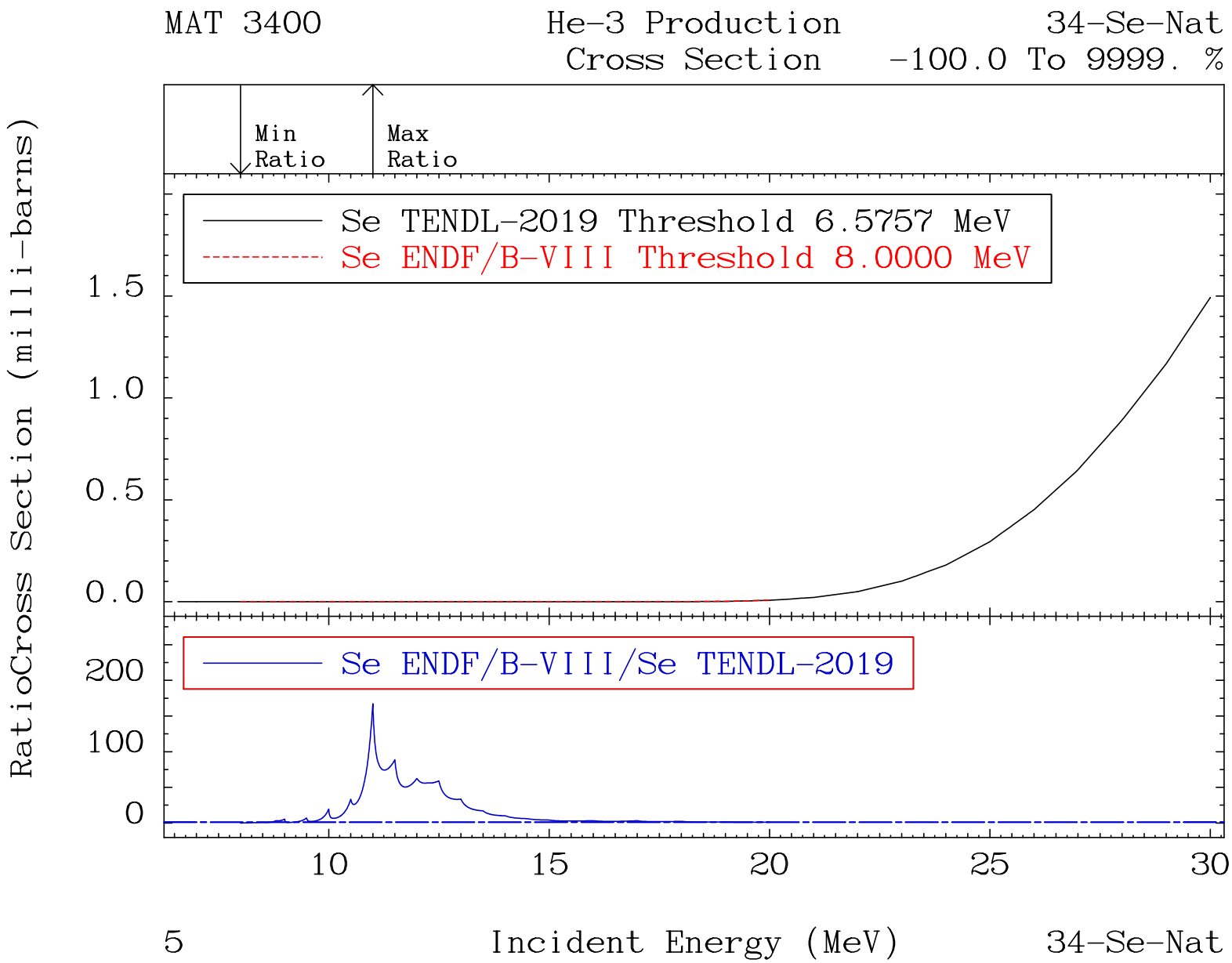
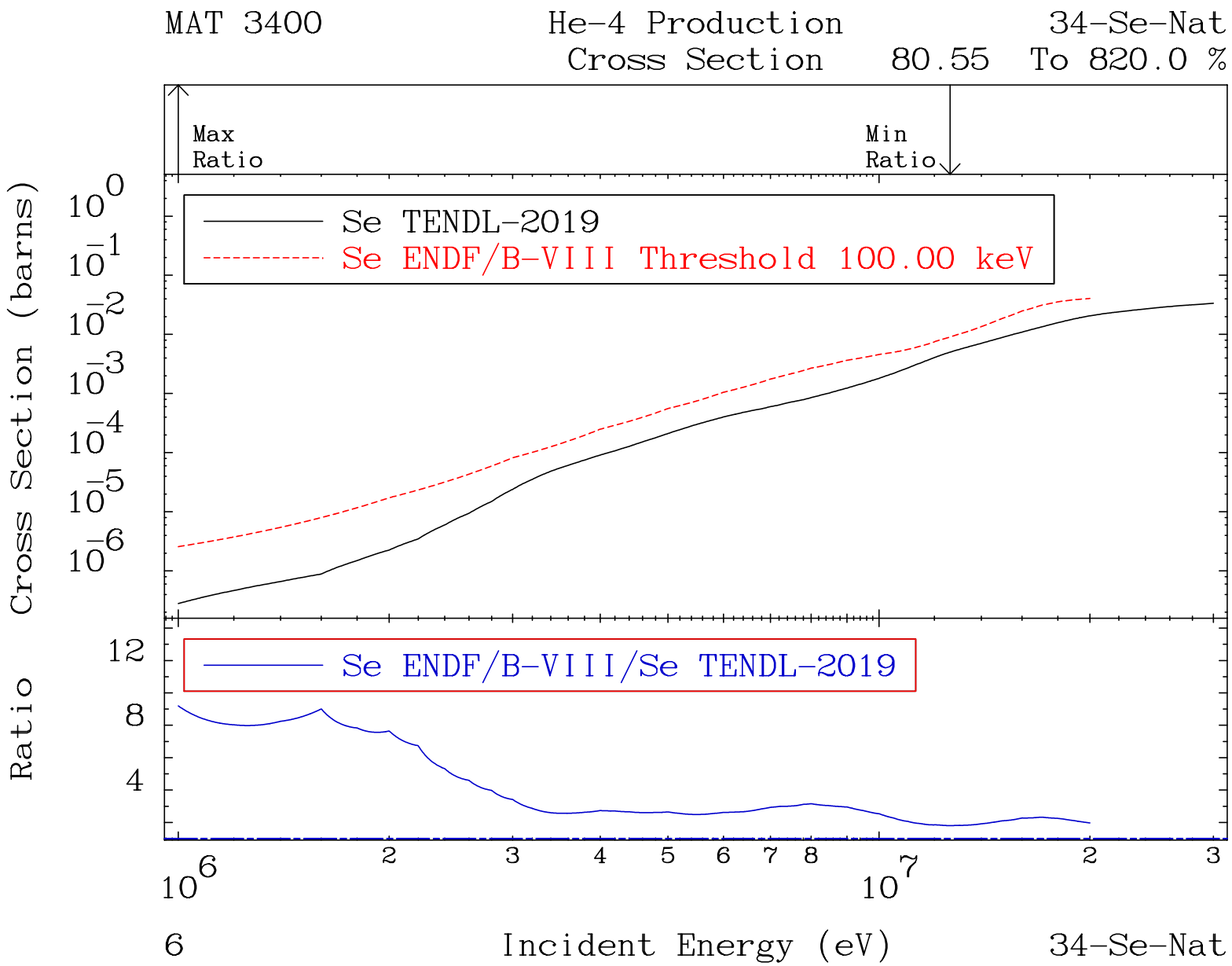

MAT 3400
Total
Cross Section
34-Se-Nat
-95.78 To 1813. %
Min
Ratio
Max
Ratio
Se TENDL-2019
Se ENDF/B-VIII
Cross Section (barns)
Ratio
Se ENDF/B-VIII/Se TENDL-2019
Incident Energy (eV)
1
34-Se-Nat

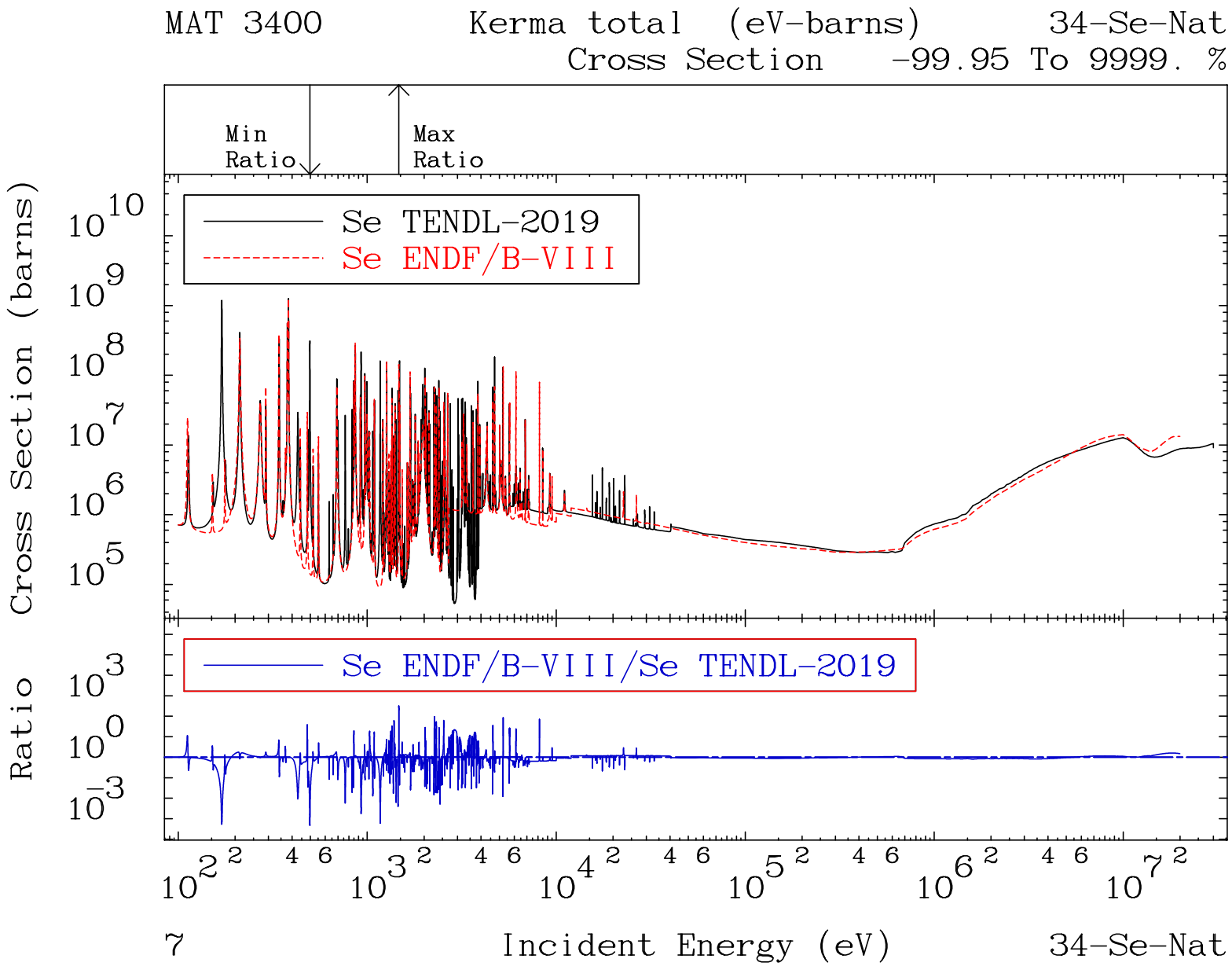

MAT 3400
Hydrogen Production
Cross Section
34-Se-Nat
-99.97 To 177.4 %
Min Ratio
Max Ratio
Se TENDL-2019 Threshold 3.9080 keV
Se ENDF/B-VIII Threshold 100.00 keV
Cross Section (barns)
Se ENDF/B-VIII/Se TENDL-2019
Ratio
Incident Energy (eV)
34-Se-Nat

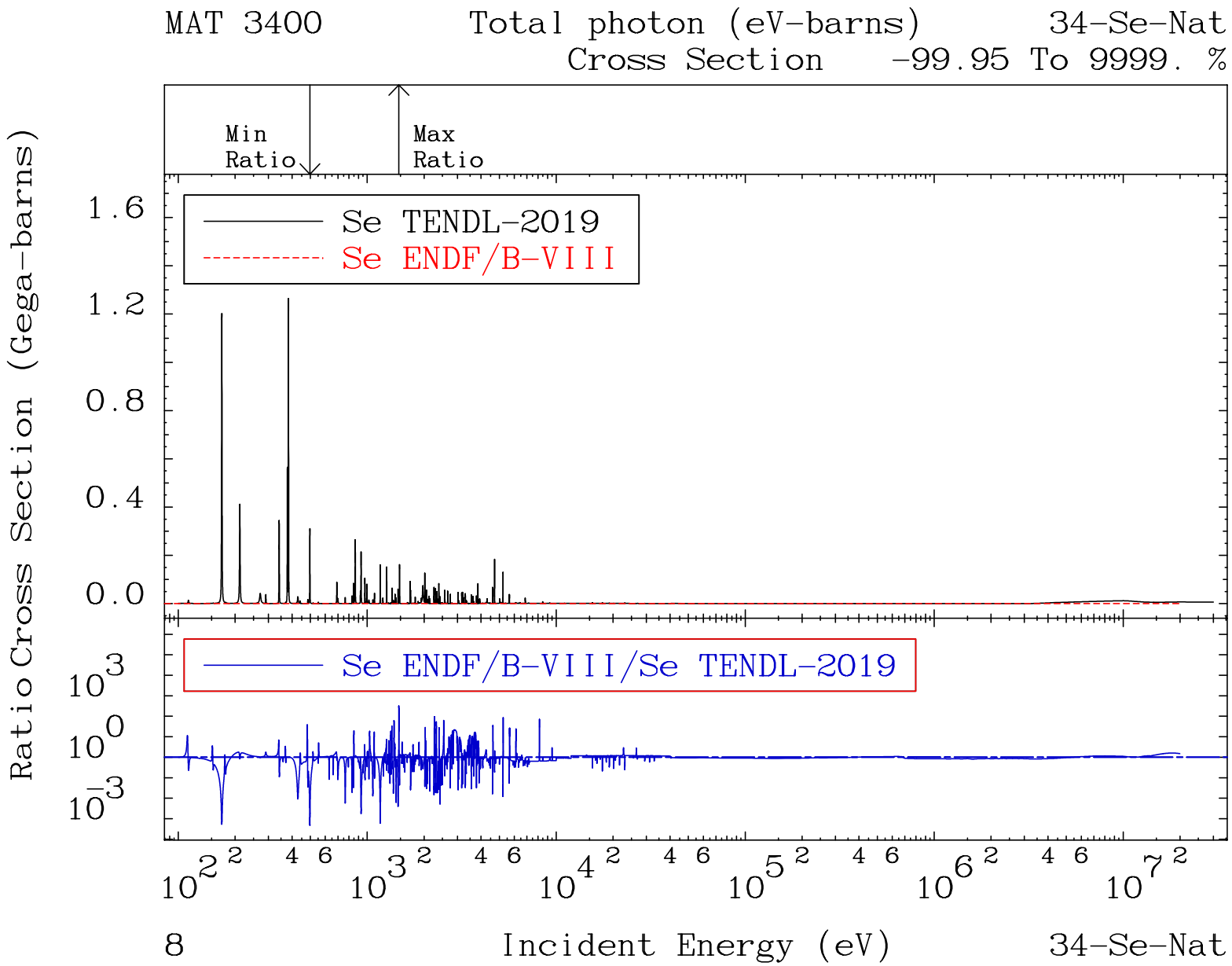

MAT 3400
Deuterium Production
Cross Section
34-Se-Nat
-100.0 To 1252. %
Max
Ratio
Se TENDL-2019 Threshold 6.4112 MeV
Se ENDF/B-VIII Threshold 6.5744 MeV
Se ENDF/B-VIII/Se TENDL-2019
RatioCross Section (milli-barns)
0
10
20
30
40
0
10
20
10
15
20
25
30
3
Incident Energy (MeV)
34-Se-Nat

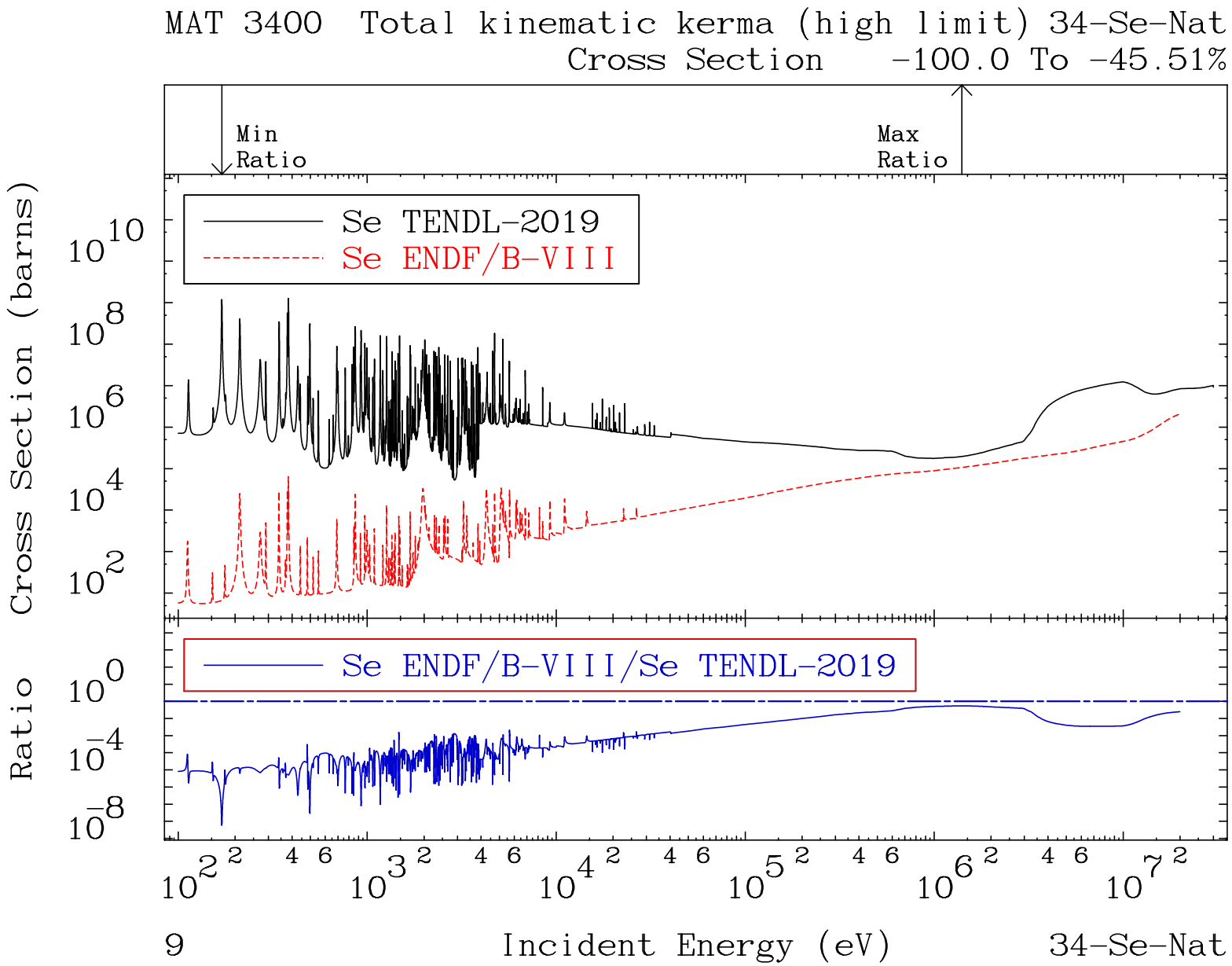

MAT 3400
Tritium Production
Cross Section
34-Se-Nat
-100.0 To 1407. %
Max
Ratio
Se TENDL-2019 Threshold 8.5545 MeV
Se ENDF/B-VIII Threshold 8.9931 MeV
Se ENDF/B-VIII/Se TENDL-2019
RatioCross Section (milli-barns)
Incident Energy (MeV)
34-Se-Nat
4

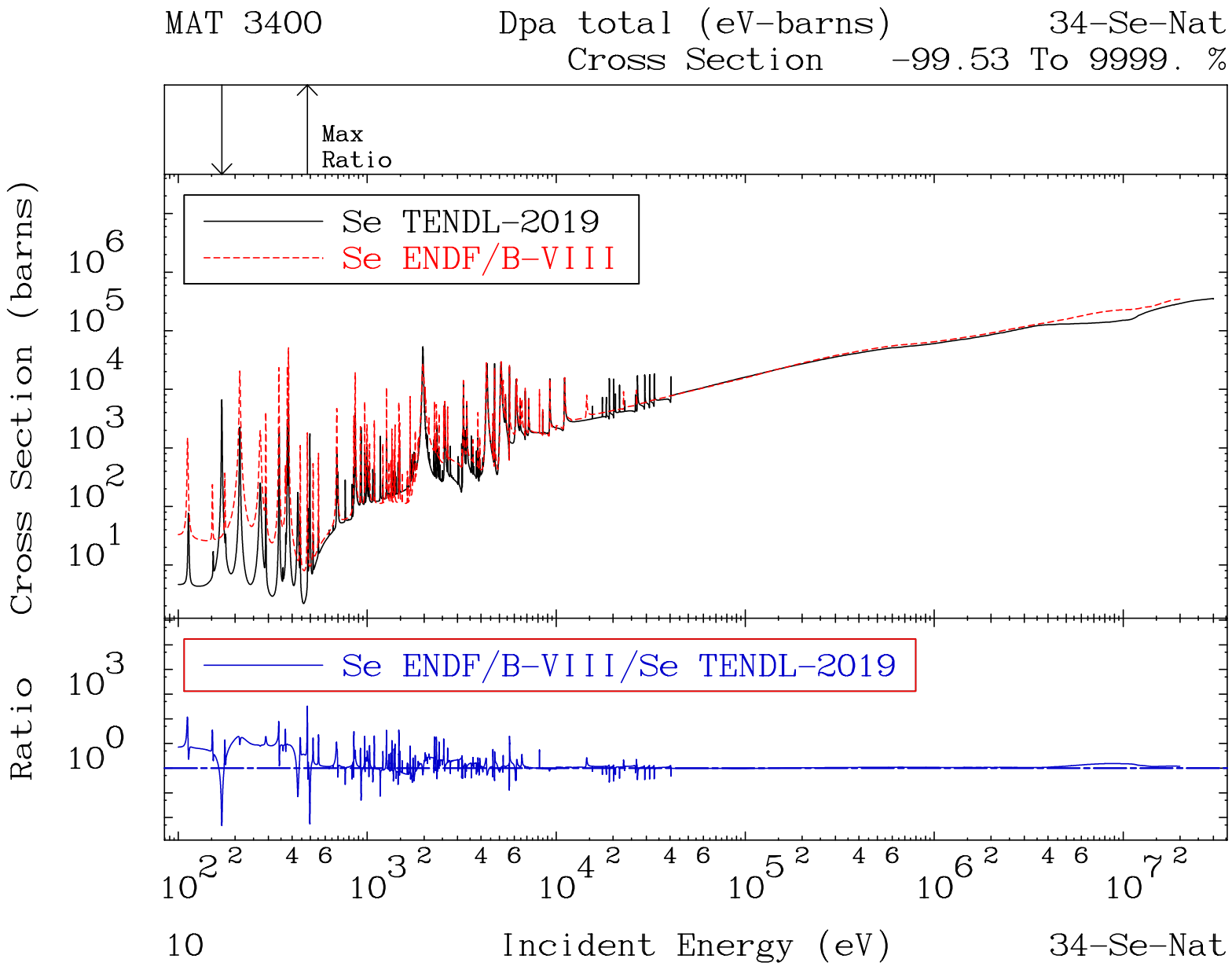

MAT 3400
He-3 Production
Cross Section
34-Se-Nat
-100.0 To 9999. %
Min
Ratio
Max
Ratio
Se TENDL-2019 Threshold 6.5757 MeV
Se ENDF/B-VIII Threshold 8.0000 MeV
Se ENDF/B-VIII/Se TENDL-2019
RatioCross Section (milli-barns)
1.5
1.0
0.5
0.0
200
100
0
10
15
20
25
30
5
Incident Energy (MeV)
34-Se-Nat

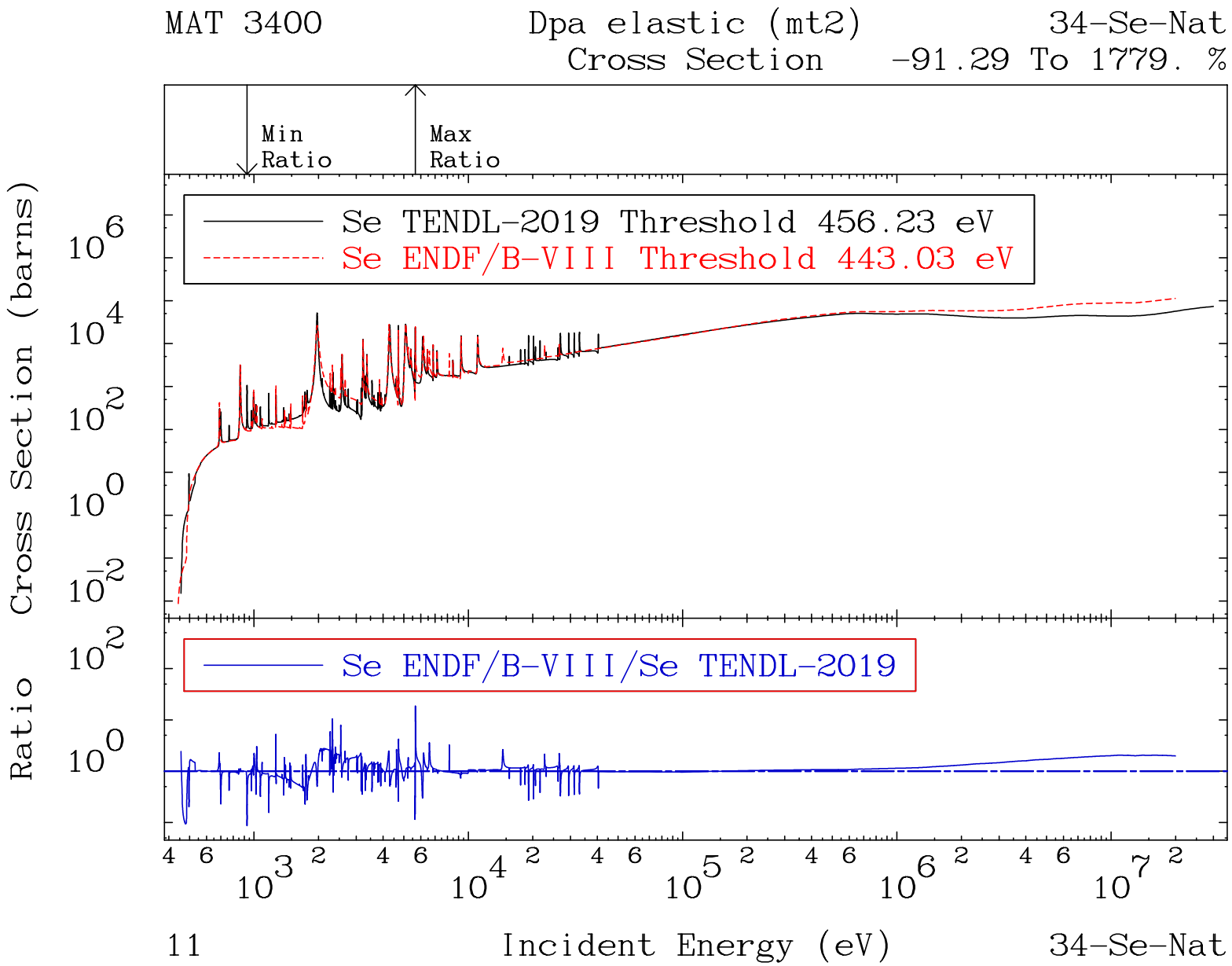

MAT 3400
He-4 Production
Cross Section
34-Se-Nat
80.55 To 820.0 %
Max
Ratio
Min
Ratio
Se TENDL-2019
Se ENDF/B-VIII Threshold 100.00 keV
Cross Section (barns)
Se ENDF/B-VIII/Se TENDL-2019
Ratio
Incident Energy (eV)
6
34-Se-Nat

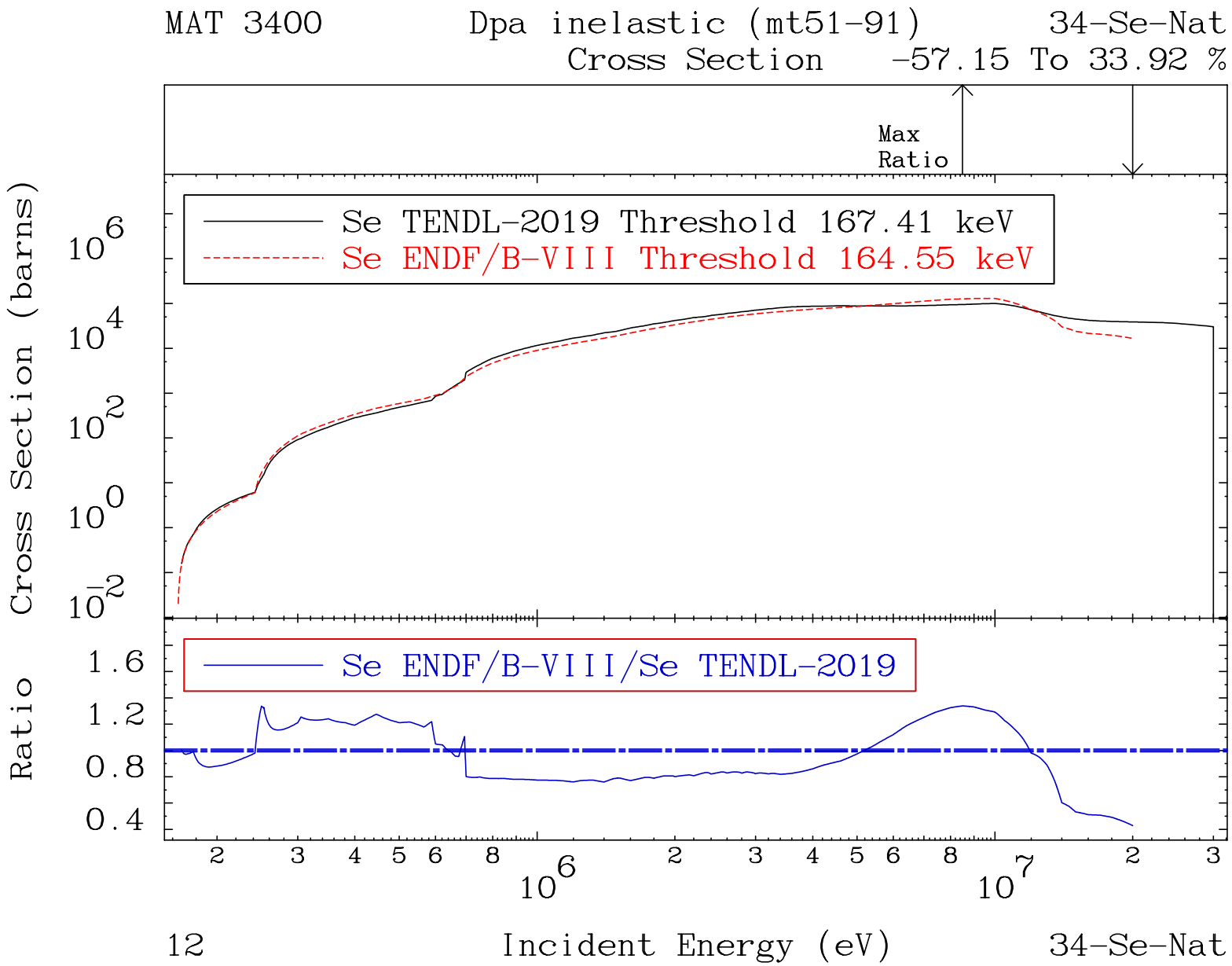

MAT 3400
Kerma total (eV-barns)
34-Se-Nat
Cross Section -99.95 To 9999. %
Min Ratio
Max Ratio
Se TENDL-2019
Se ENDF/B-VIII
Se ENDF/B-VIII/Se TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
7
34-Se-Nat

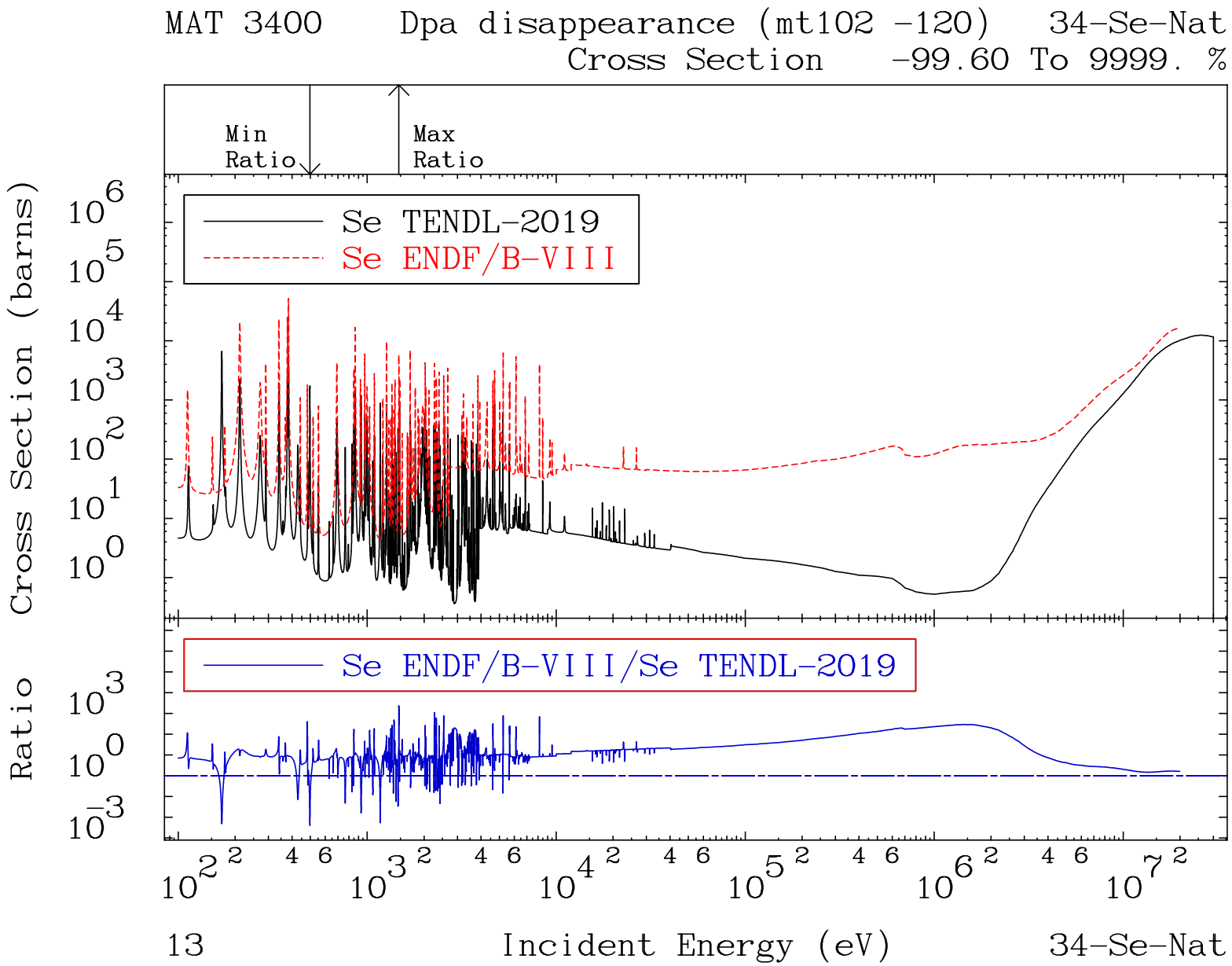

MAT 3400
Total photon (eV-barns)
Cross Section
34-Se-Nat
-99.95 To 9999. %
Min Ratio
Max Ratio
Se TENDL-2019
Se ENDF/B-VIII
Se ENDF/B-VIII/Se TENDL-2019
Ratio Cross Section (Gega-barns)
1.6
1.2
0.8
0.4
0.0
10^3
10^0
10^{-3}
10^2 2 4 6 10^3 2 4 6 10^4 2 4 6 10^5 2 4 6 10^6 2 4 6 10^7 2
Incident Energy (eV)


MAT 3400 Total kinematic kerma (high limit) 34-Se-Nat
Cross Section -100.0 To -45.51%
Min Ratio
Max Ratio
Se TENDL-2019
Se ENDF/B-VIII
Cross Section (barns)
Se ENDF/B-VIII/Se TENDL-2019
Ratio
Incident Energy (eV)
9
34-Se-Nat


MAT 3400
Dpa total (eV-barns)
34-Se-Nat
Cross Section
-99.53 To 9999. %
Max
Ratio
Se TENDL-2019
Se ENDF/B-VIII
Cross Section (barns)
Se ENDF/B-VIII/Se TENDL-2019
Ratio
Incident Energy (eV)
34-Se-Nat
10


MAT 3400
Dpa elastic (mt2)
Cross Section
34-Se-Nat
-91.29 To 1779. %
Min Ratio
Max Ratio
Se TENDL-2019 Threshold 456.23 eV
Se ENDF/B-VIII Threshold 443.03 eV
Cross Section (barns)
Se ENDF/B-VIII/Se TENDL-2019
Ratio
Incident Energy (eV)
11
34-Se-Nat


MAT 3400
Dpa inelastic (mt51-91)
Cross Section
34-Se-Nat
-57.15 To 33.92 %
Max
Ratio
Se TENDL-2019 Threshold 167.41 keV
Se ENDF/B-VIII Threshold 164.55 keV
Cross Section (barns)
Se ENDF/B-VIII/Se TENDL-2019
Ratio
Incident Energy (eV)
12
34-Se-Nat


MAT 3400 Dpa disappearance (mt102 -120) 34-Se-Nat
Cross Section -99.60 To 9999. %
Min Ratio
Max Ratio
Se TENDL-2019
Se ENDF/B-VIII
Cross Section (barns)
Se ENDF/B-VIII/Se TENDL-2019
Ratio
Incident Energy (eV)
13
34-Se-Nat