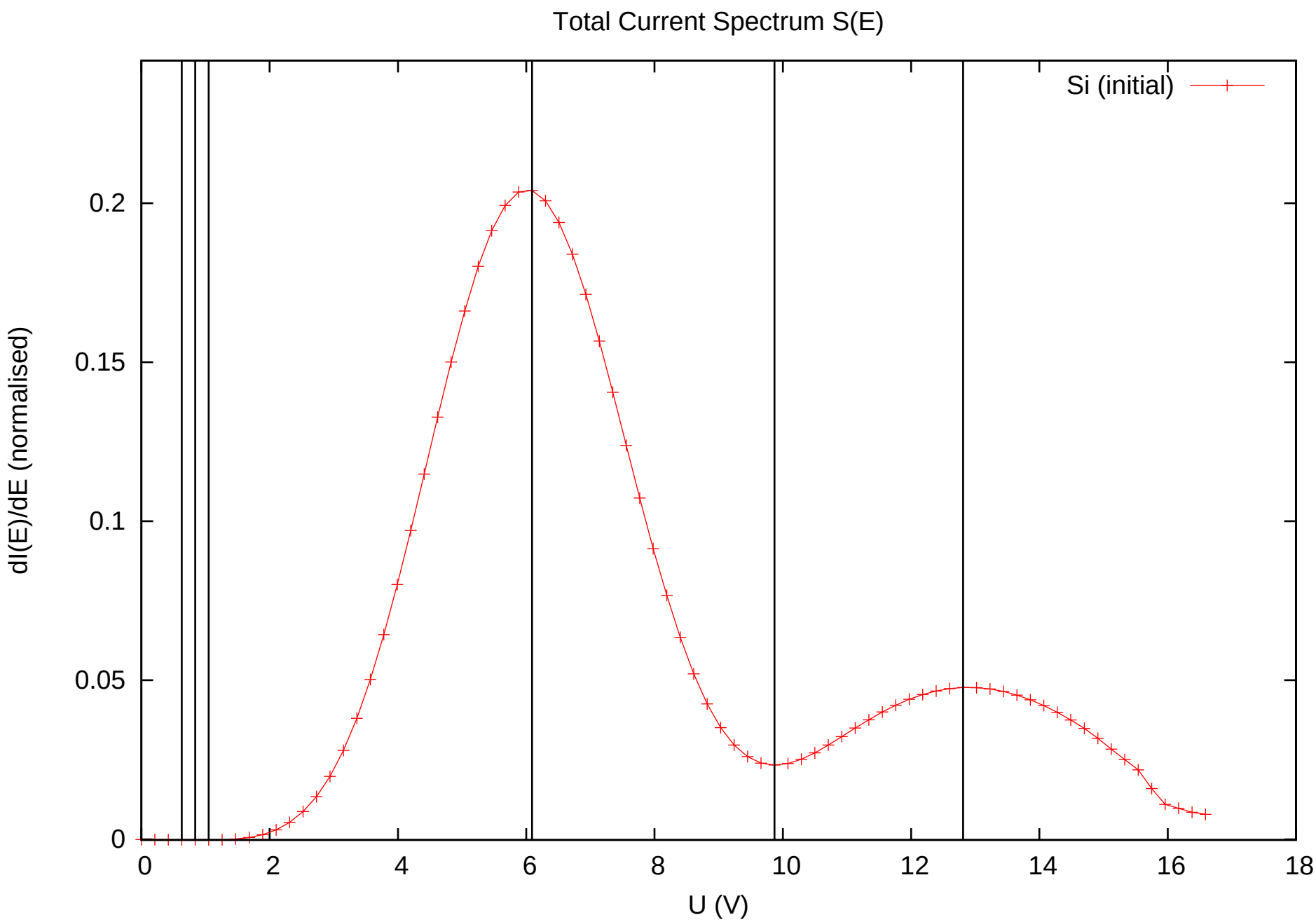
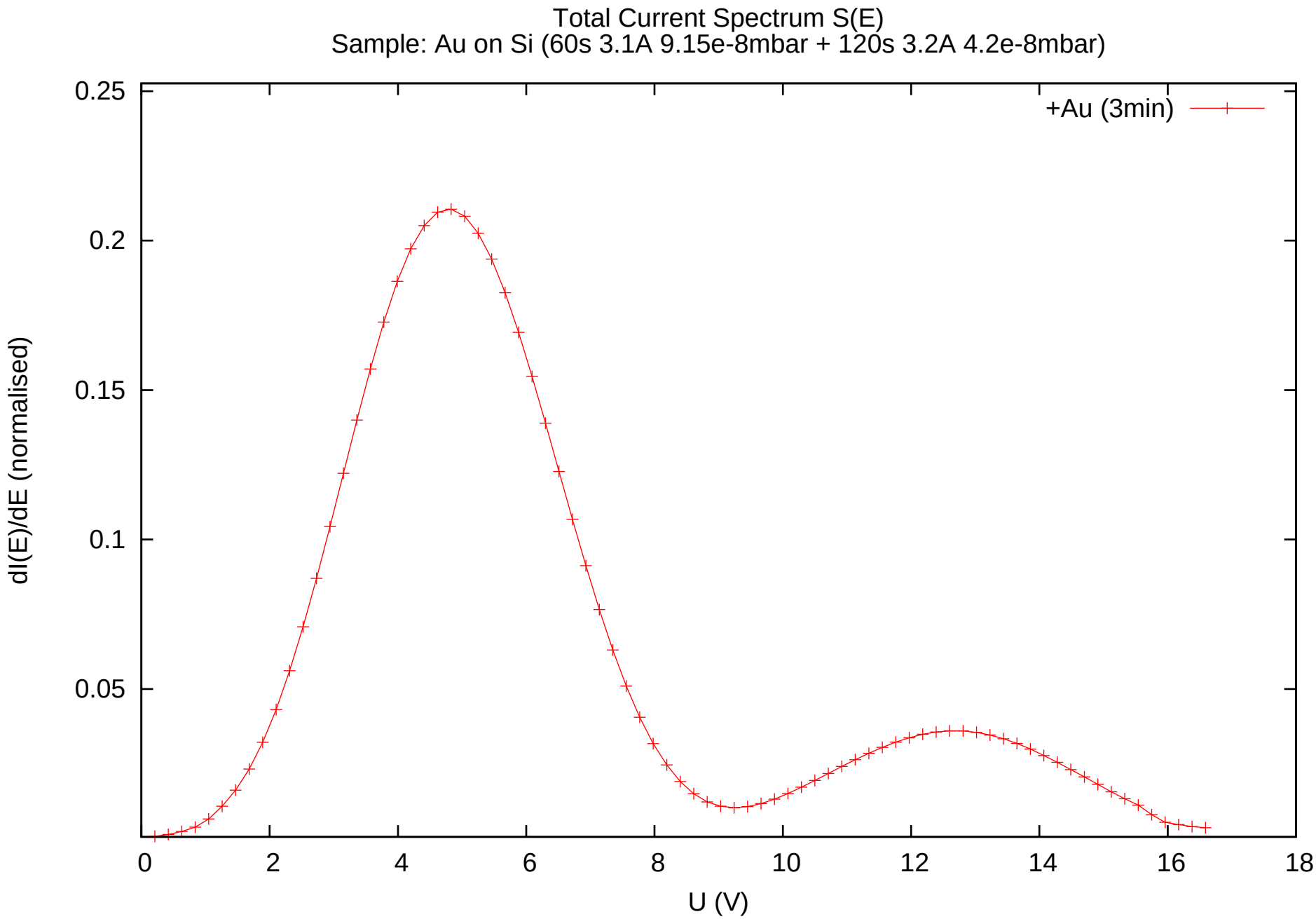
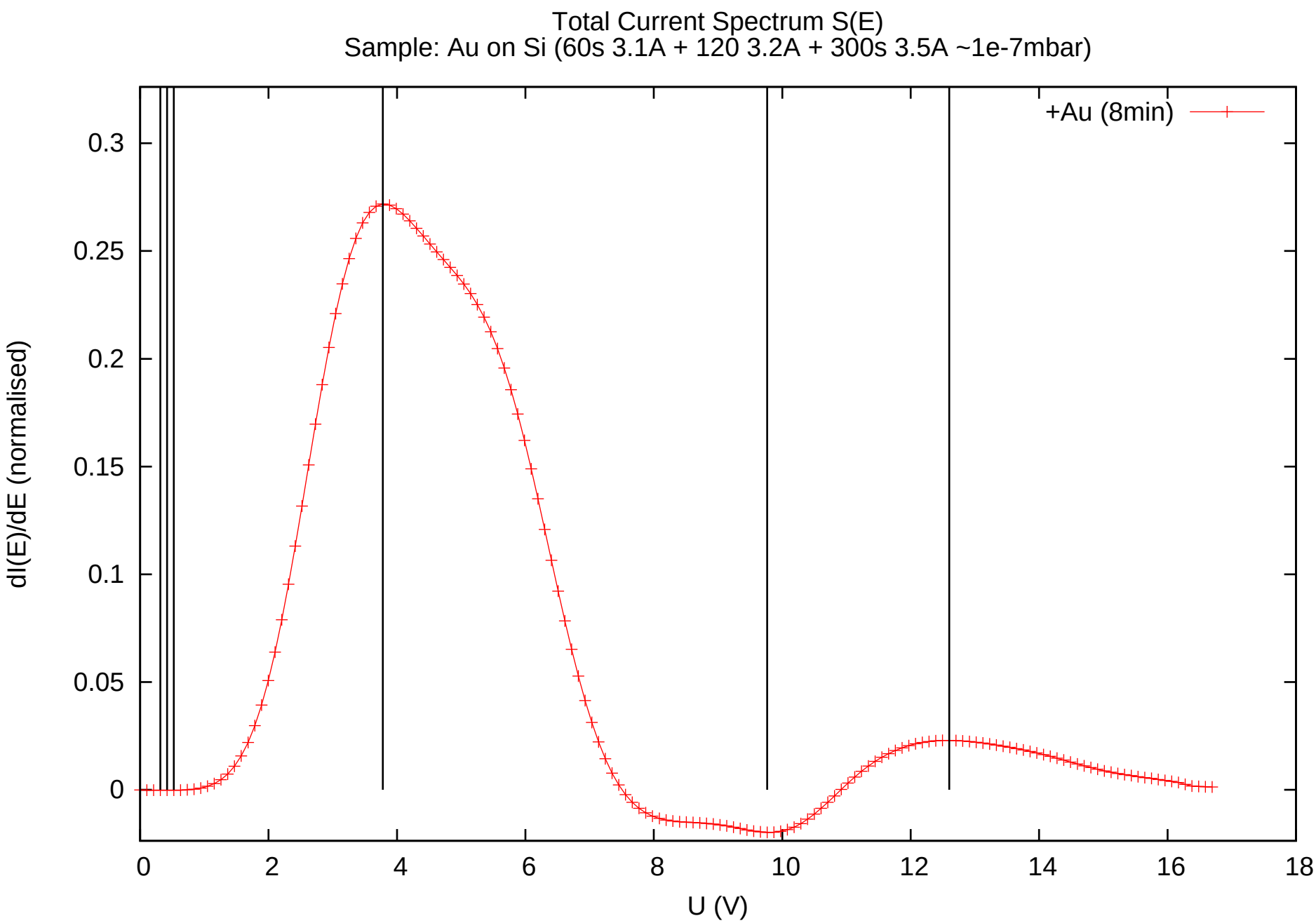
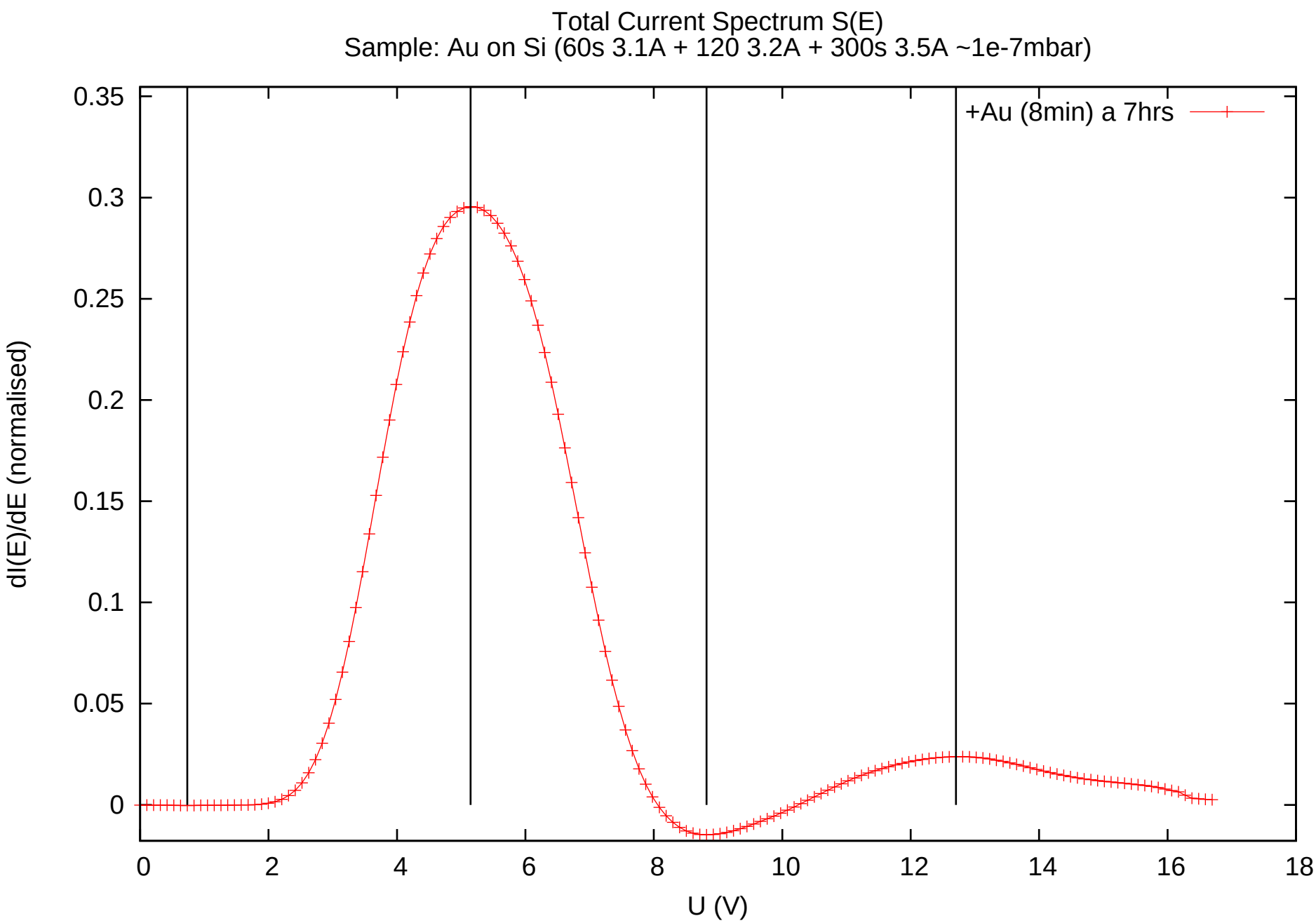
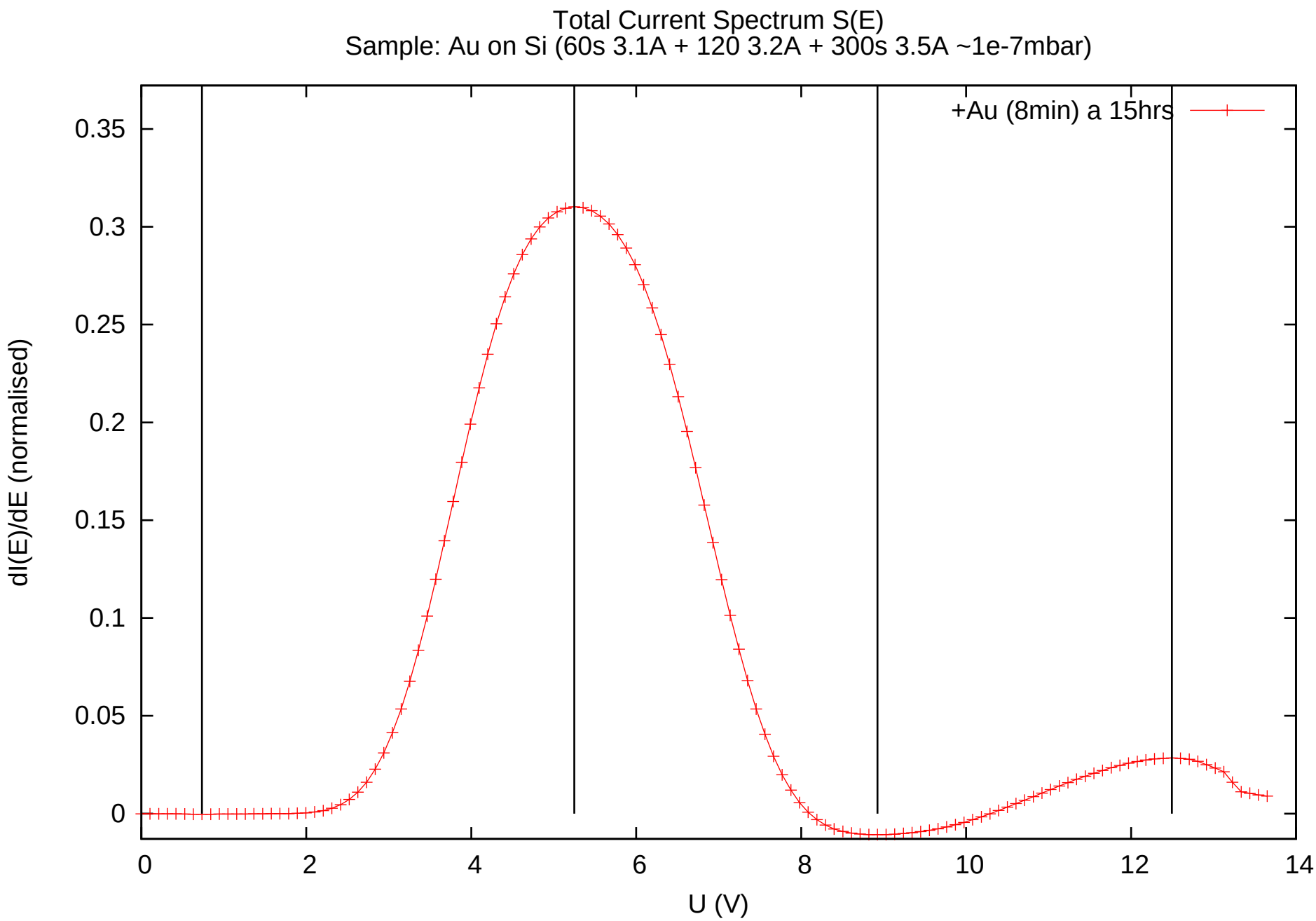
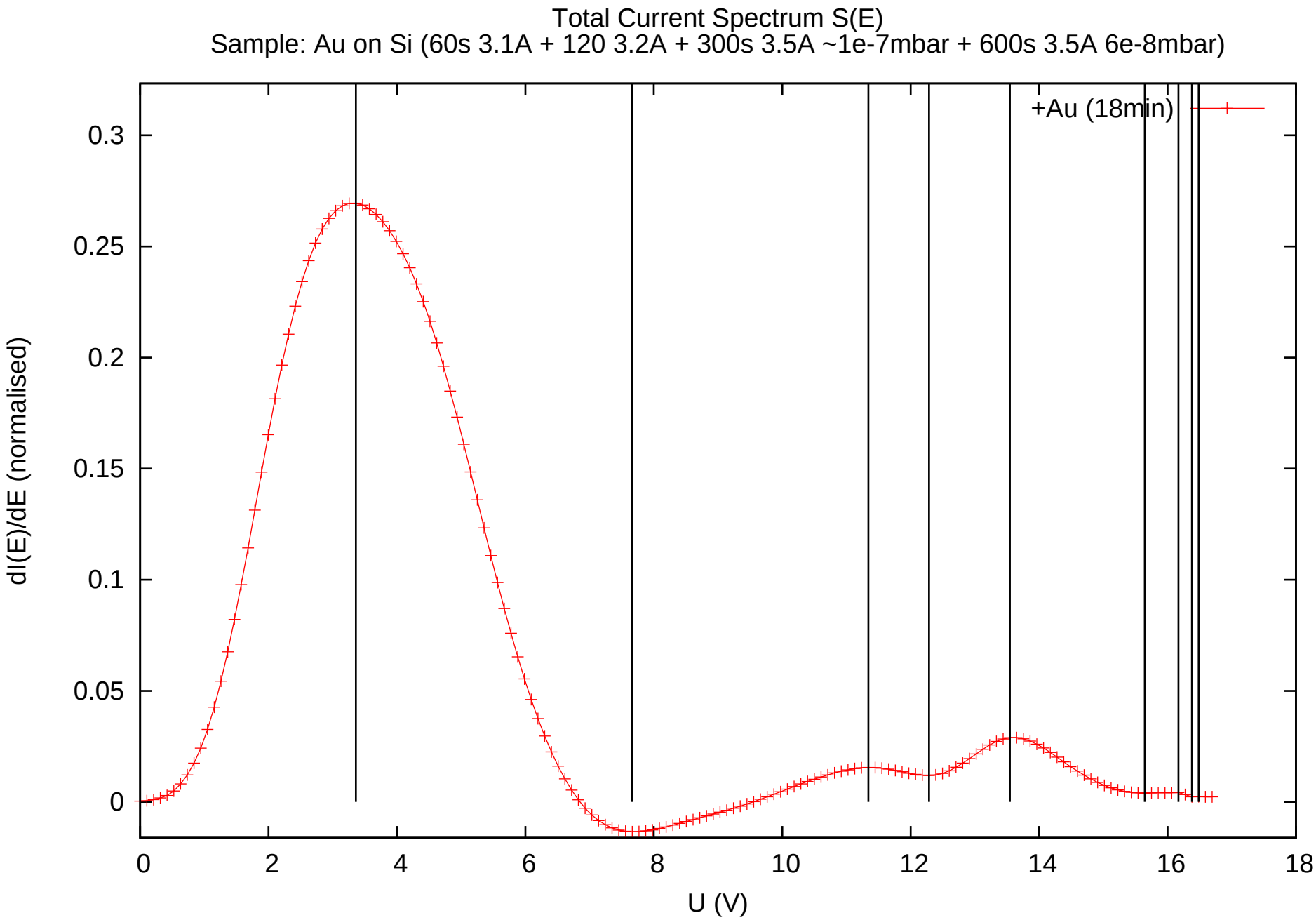

Total Current Spectrum S(E)
Si (initial)
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0
2
4
6
8
10
12
14
16
18

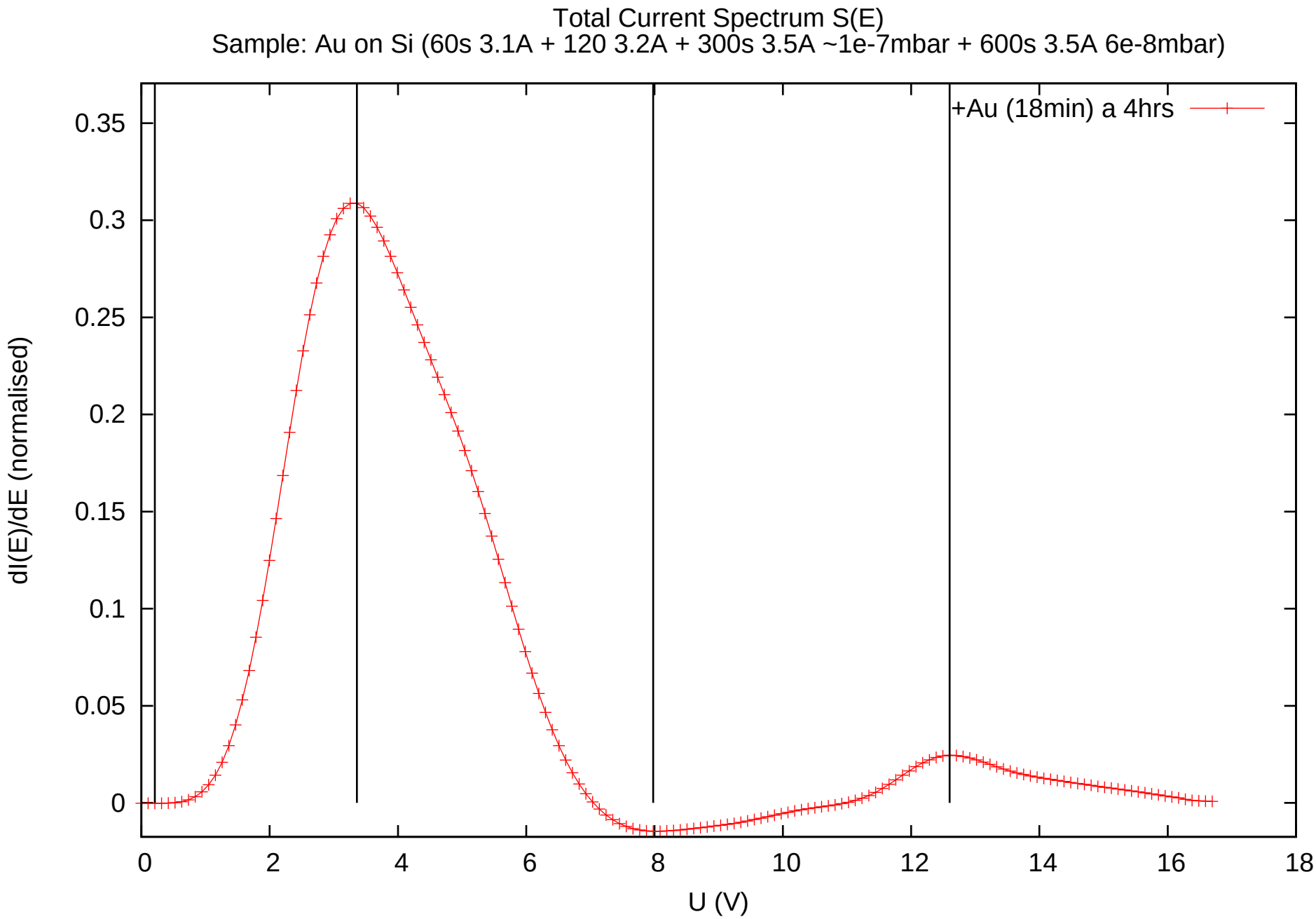

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A 9.15e-8mbar + 120s 3.2A 4.2e-8mbar)
+Au (3min)
dI(E)/dE (normalised)
U (V)
0.25
0.2
0.15
0.1
0.05
0
2
4
6
8
10
12
14
16
18

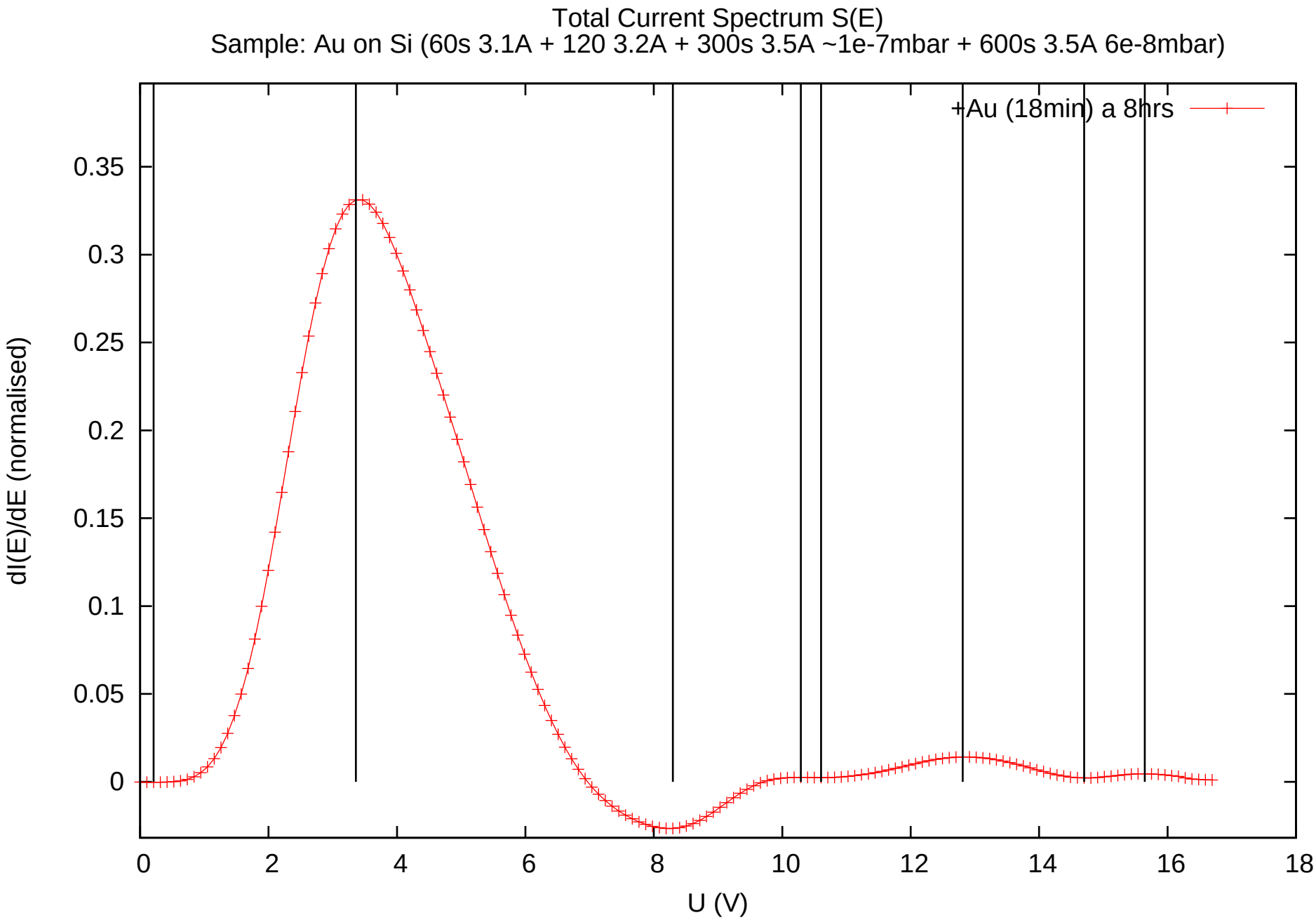

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar)
+Au (8min)
dI(E)/dE (normalised)
U (V)
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

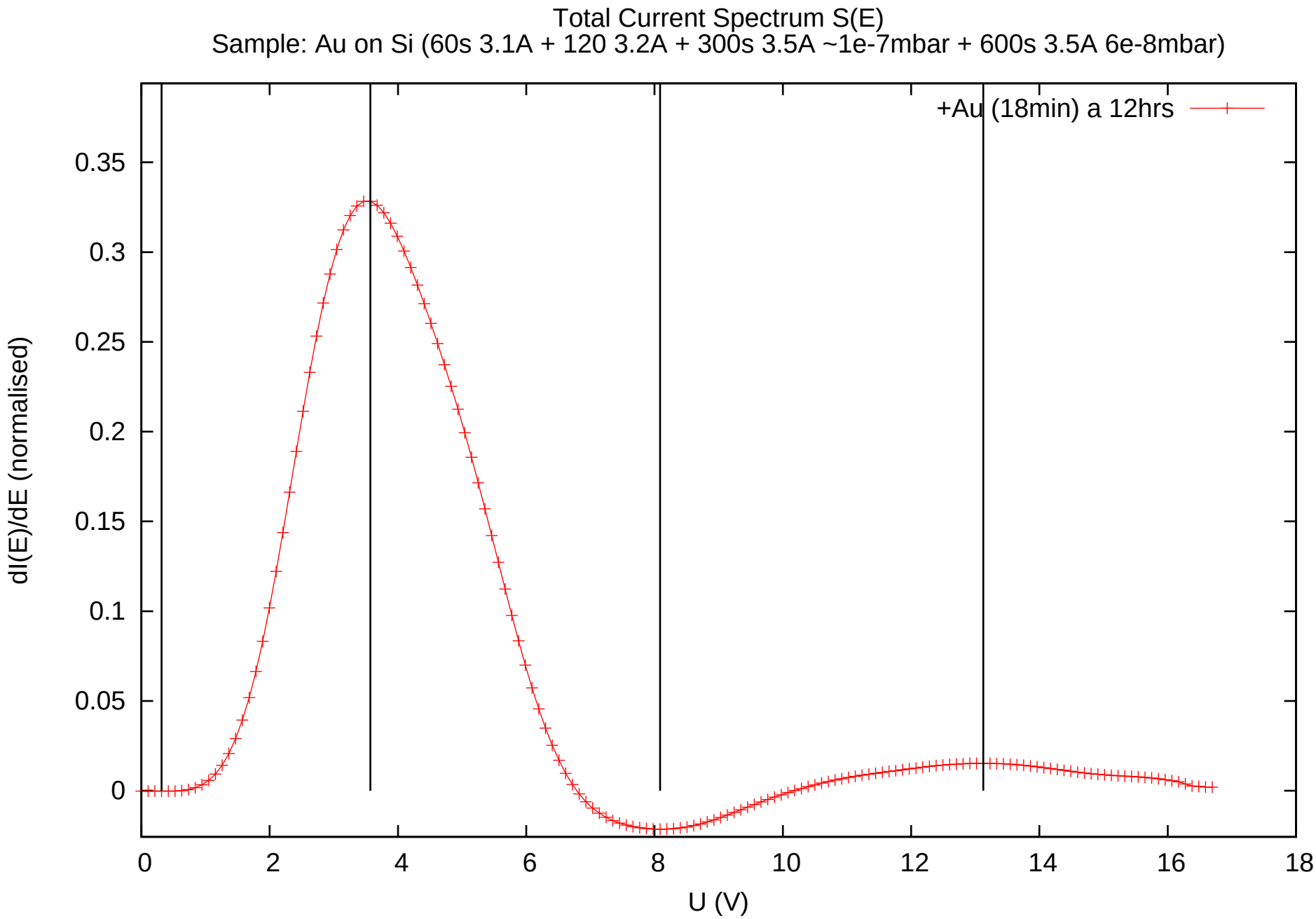

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar)
+Au (8min) a 7hrs
dI(E)/dE (normalised)
U (V)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

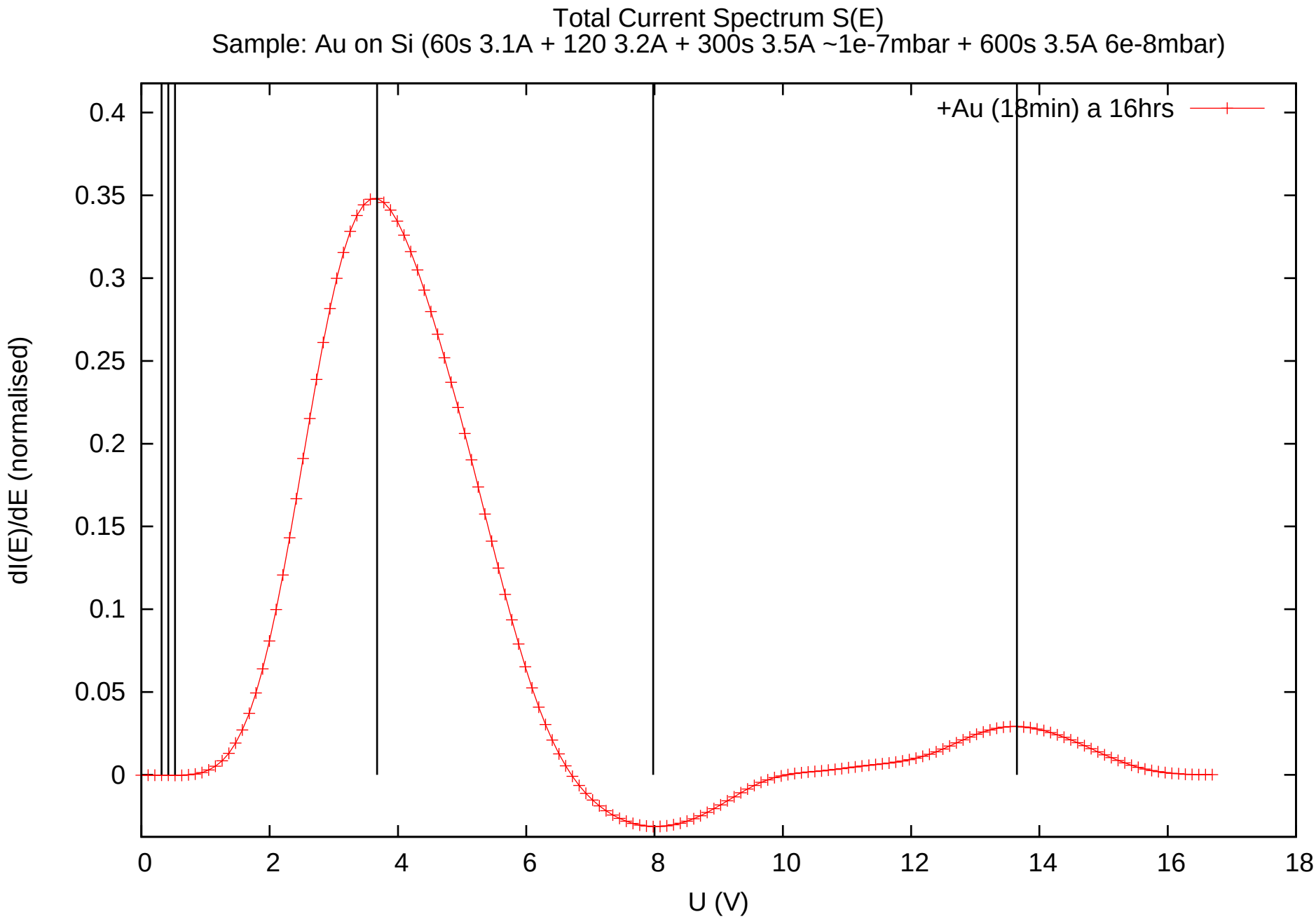

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar)
+Au (8min) a 15hrs
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0
2
4
6
8
10
12
14

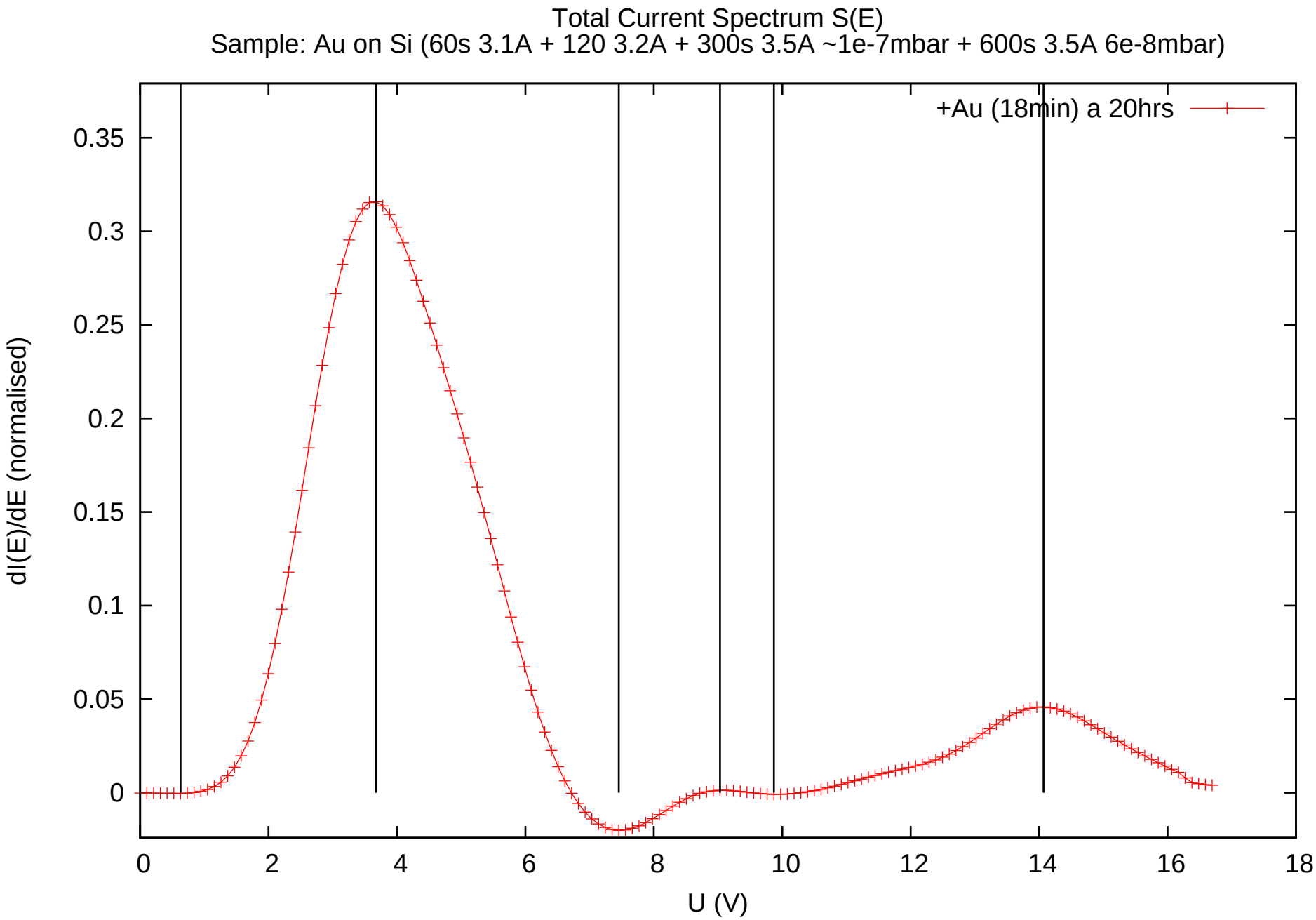

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min)
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0
2
4
6
8
10
12
14
16
18

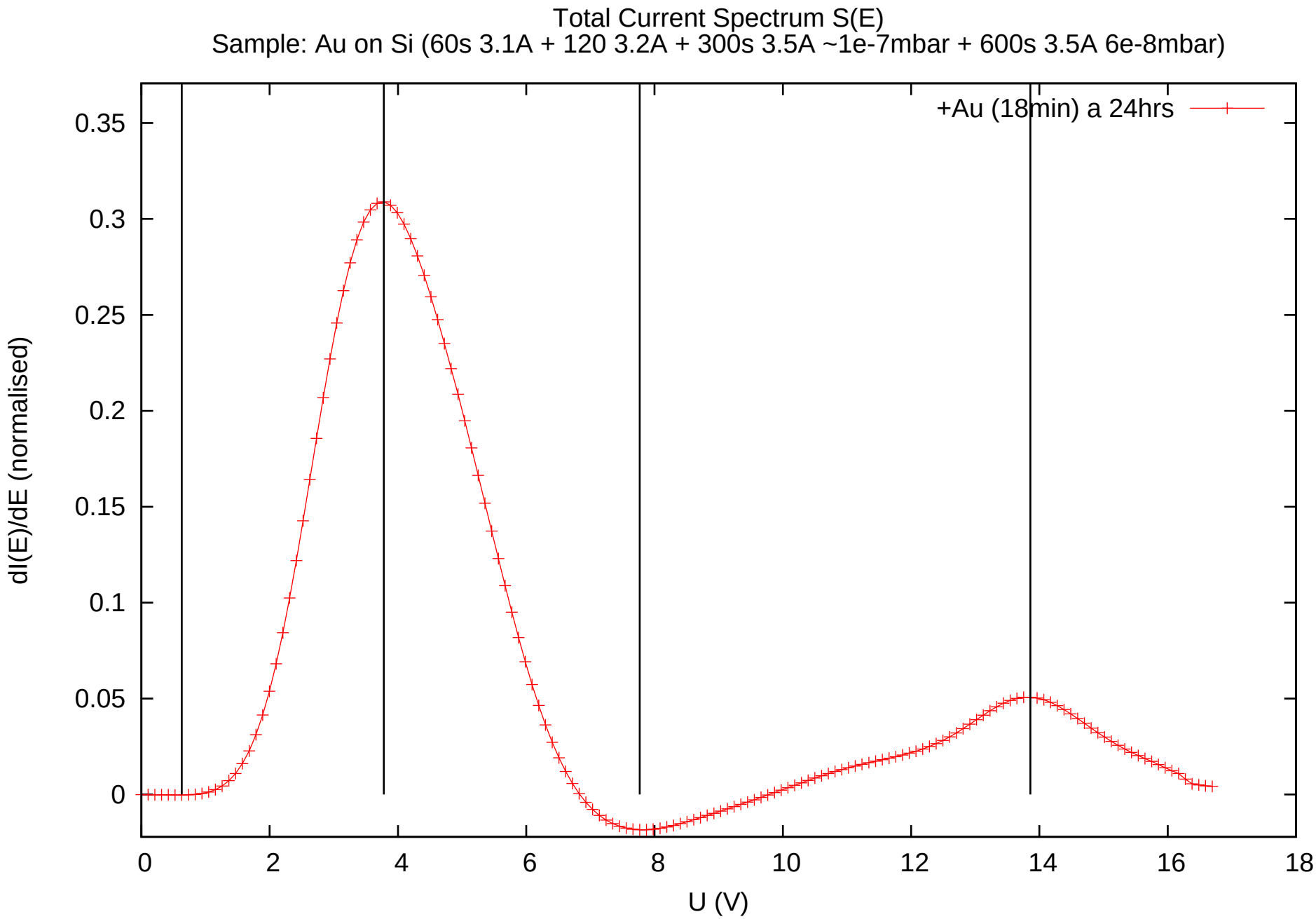

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 4hrs
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0
2
4
6
8
10
12
14
16
18

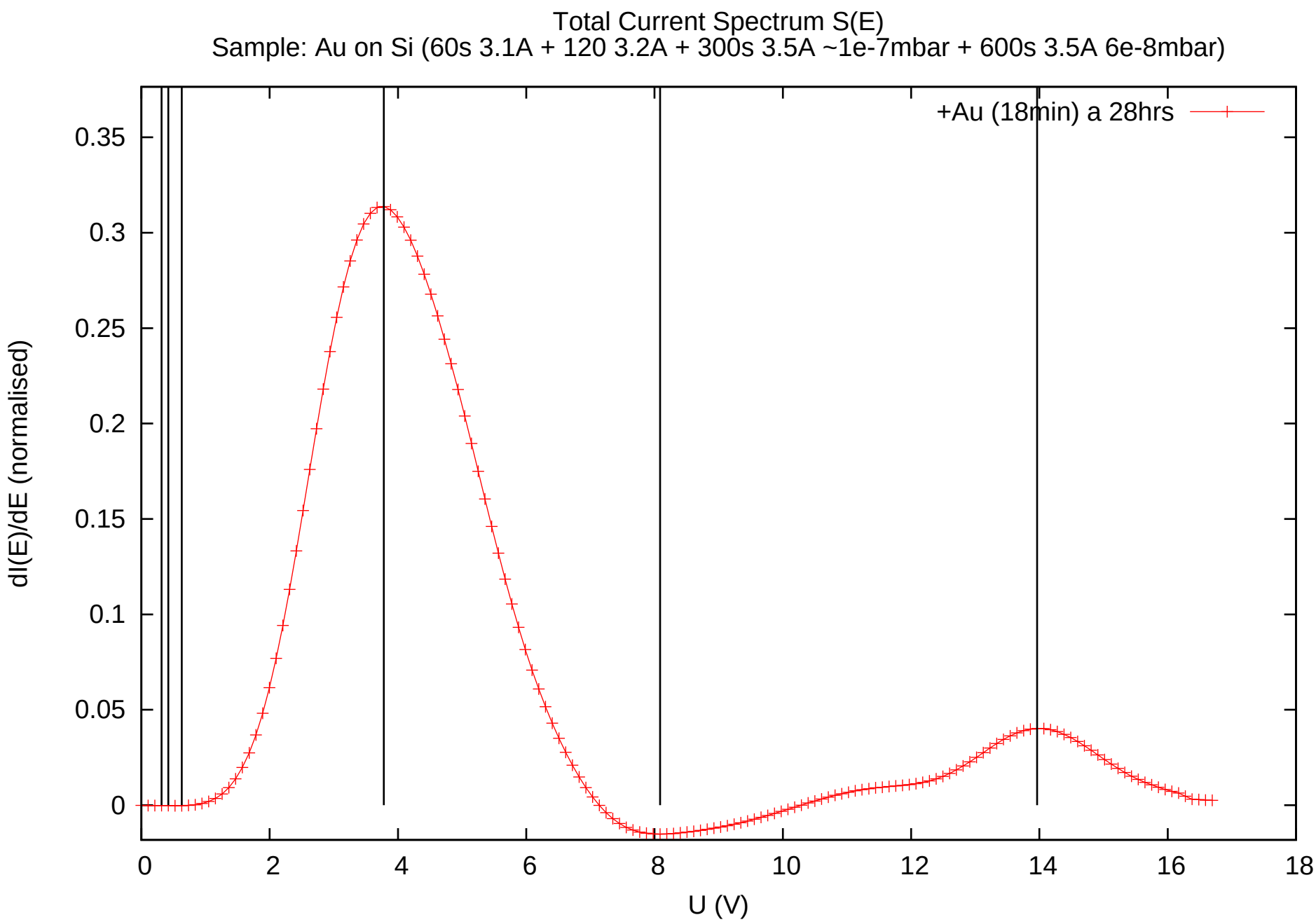

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 8hrs
dI(E)/dE (normalised)
U (V)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

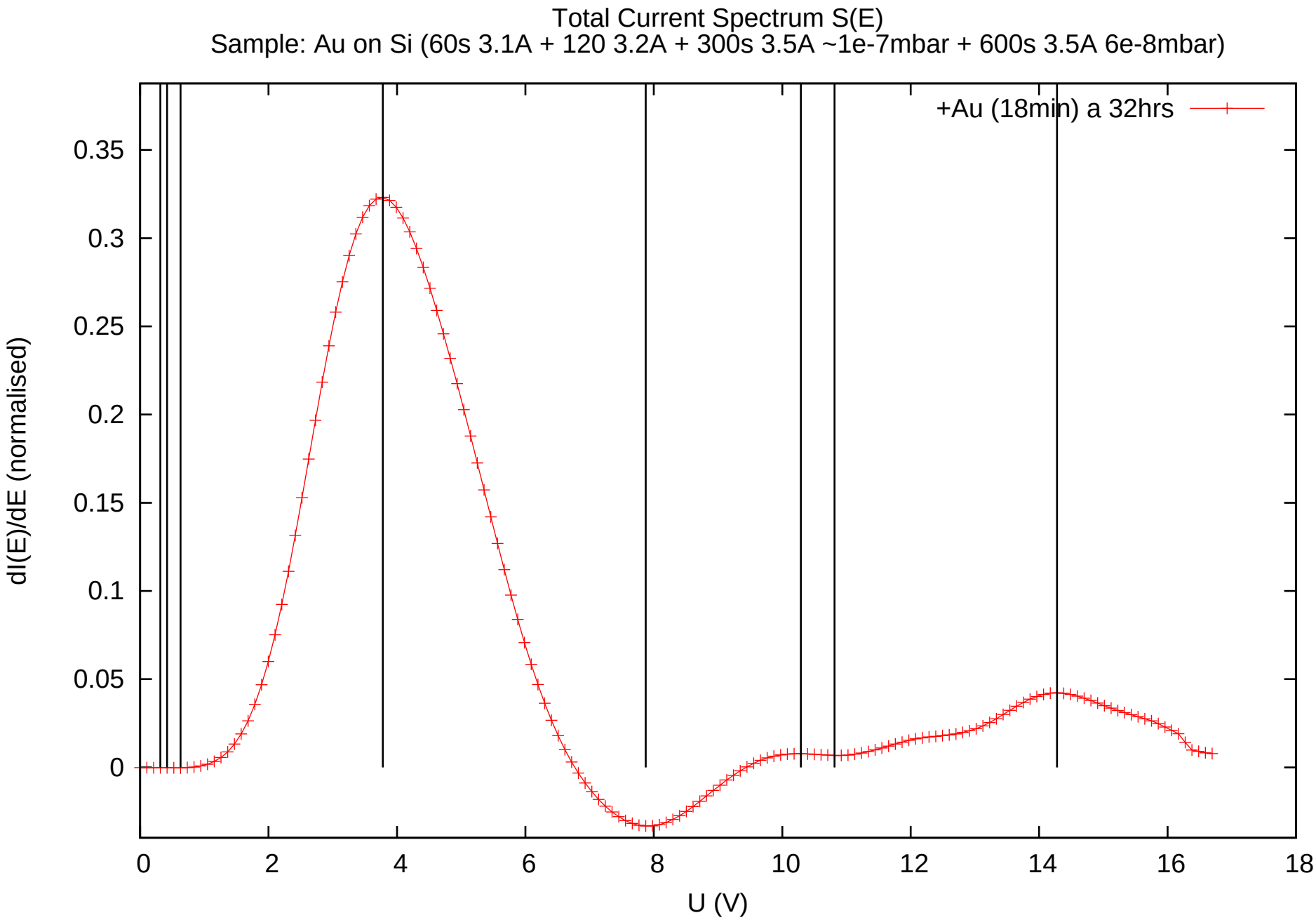

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 12hrs
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0
2
4
6
8
10
12
14
16
18

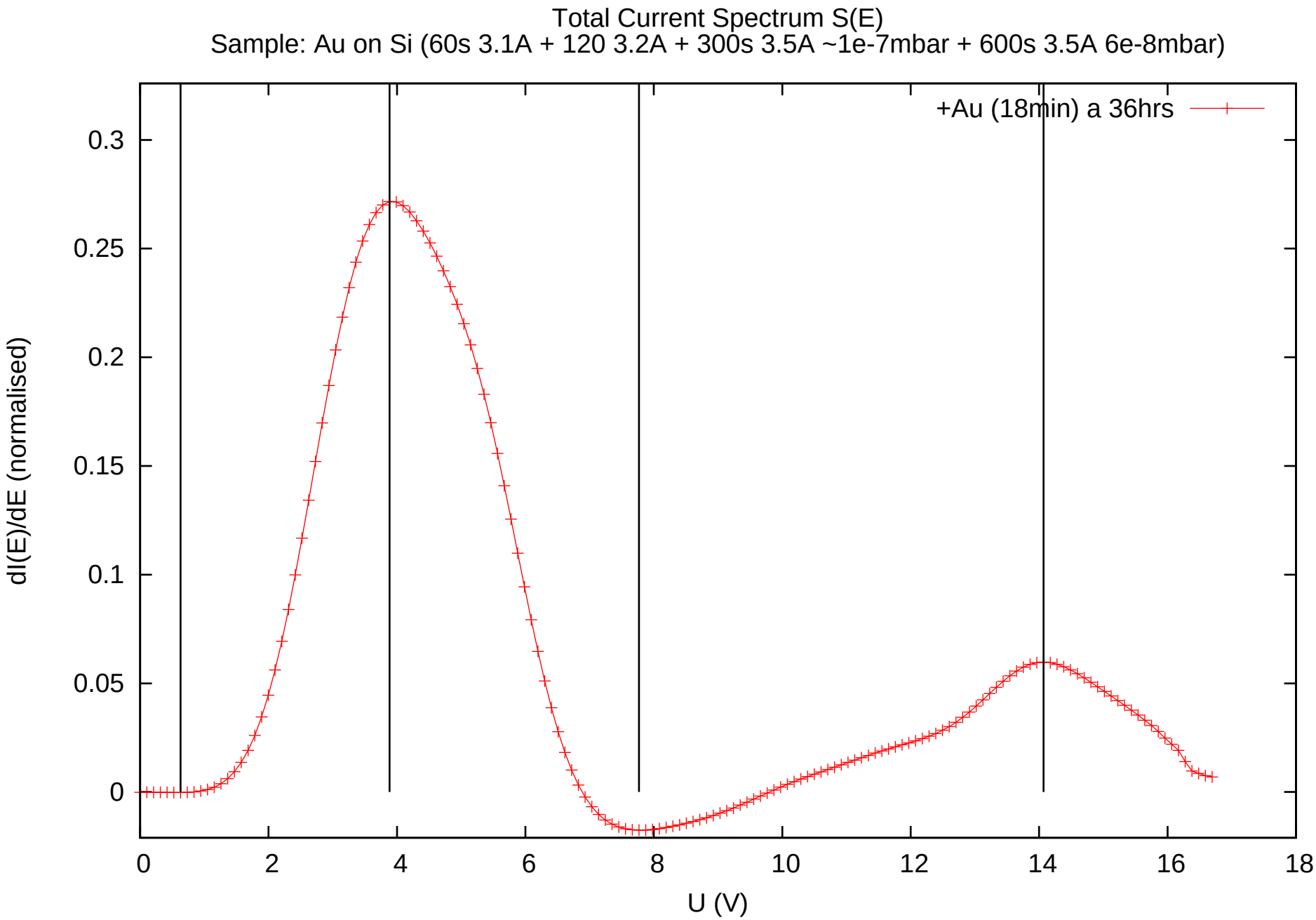

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 16hrs
dI(E)/dE (normalised)
U (V)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

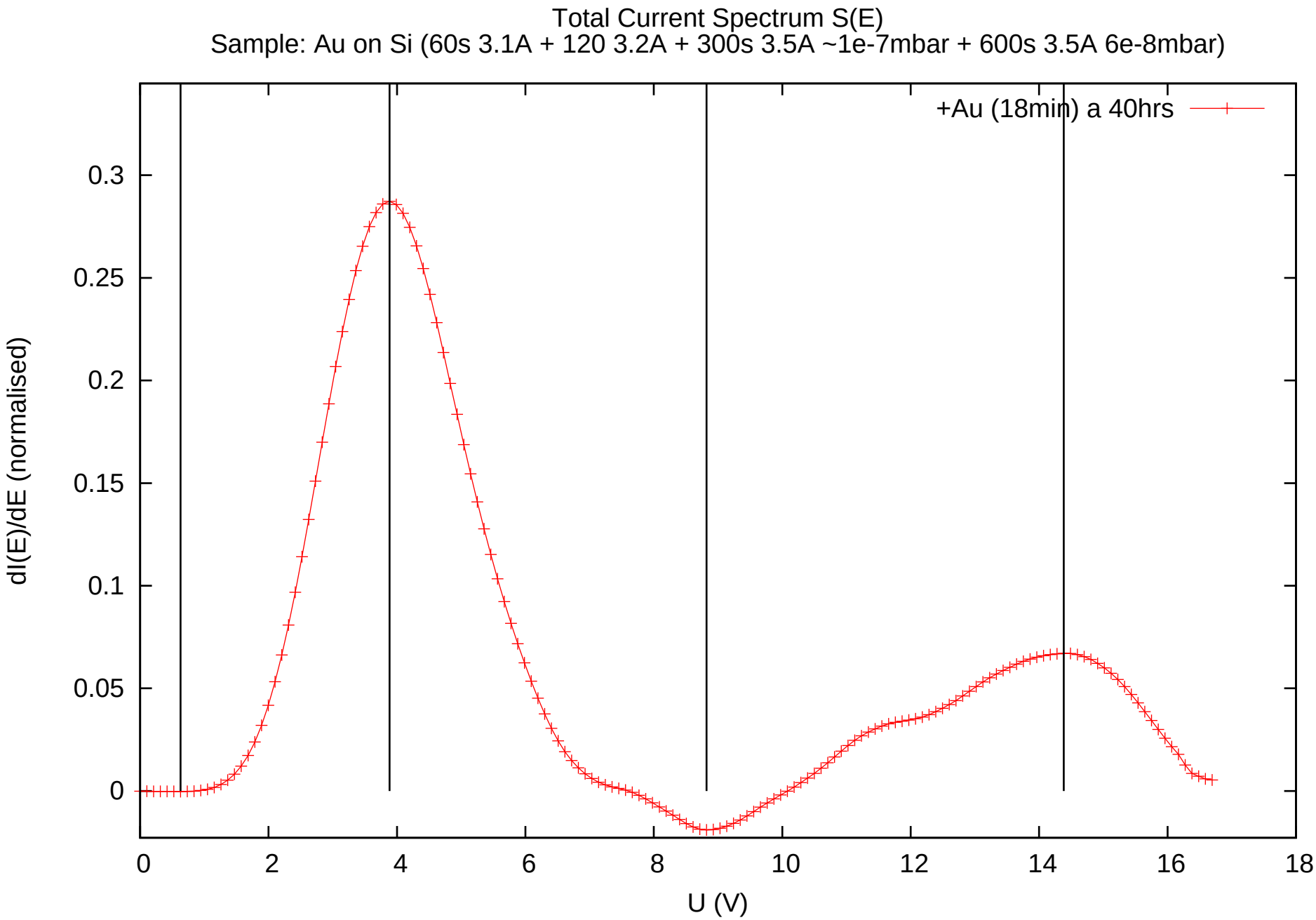

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 20hrs
dI(E)/dE (normalised)
U (V)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

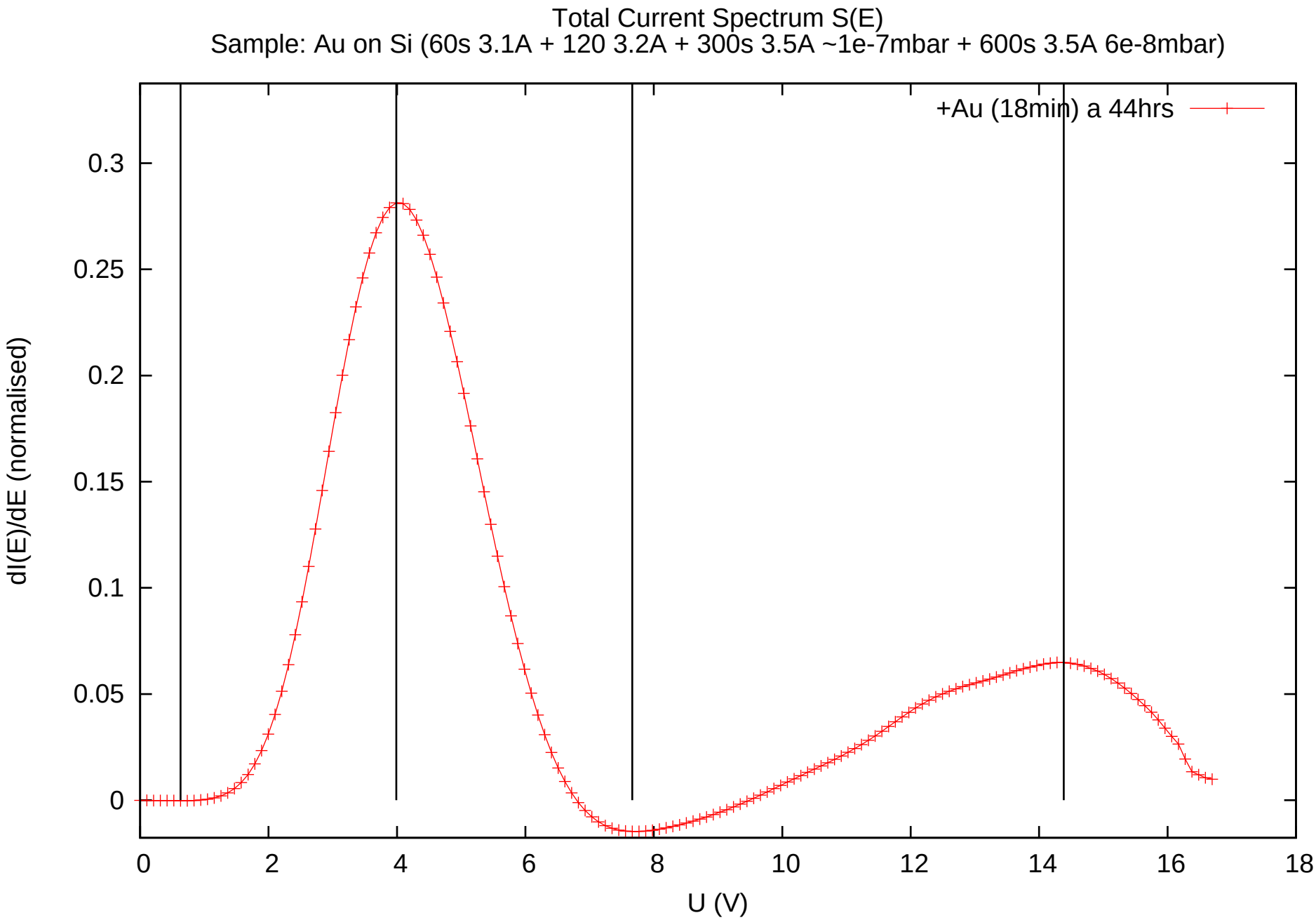

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 24hrs
dI(E)/dE (normalised)
U (V)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

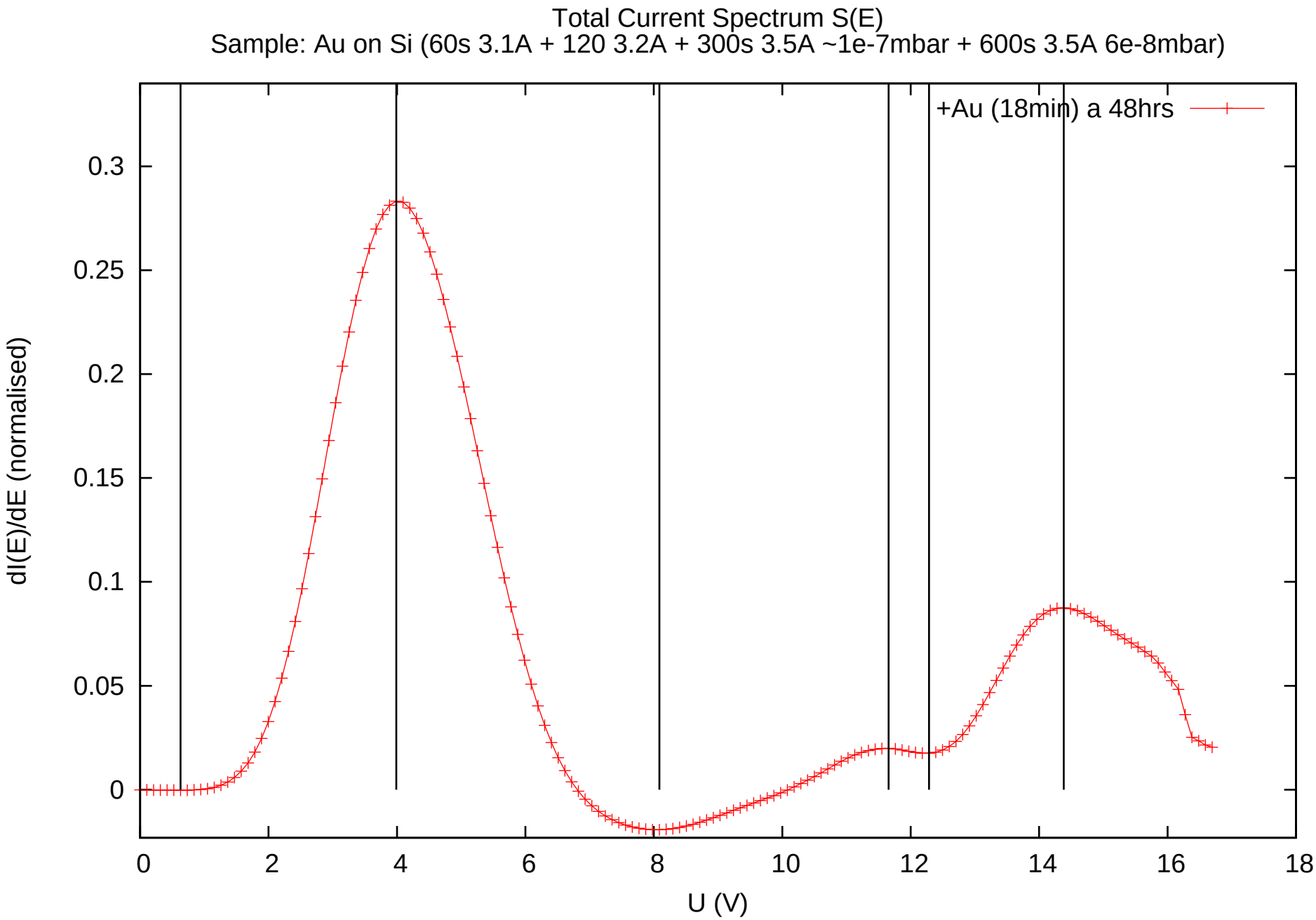

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 28hrs
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0
2
4
6
8
10
12
14
16
18

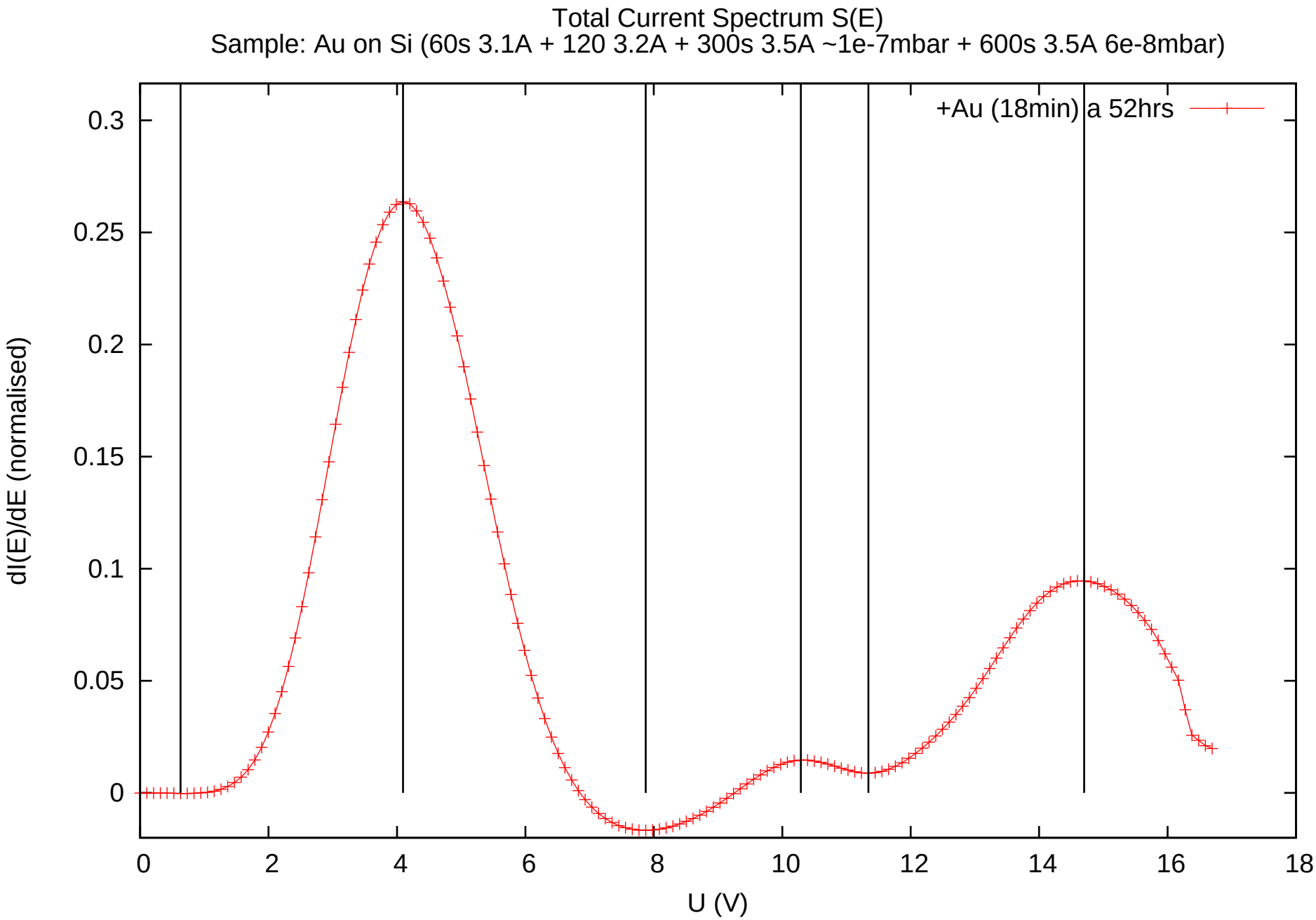

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 32hrs
dI(E)/dE (normalised)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18
U (V)

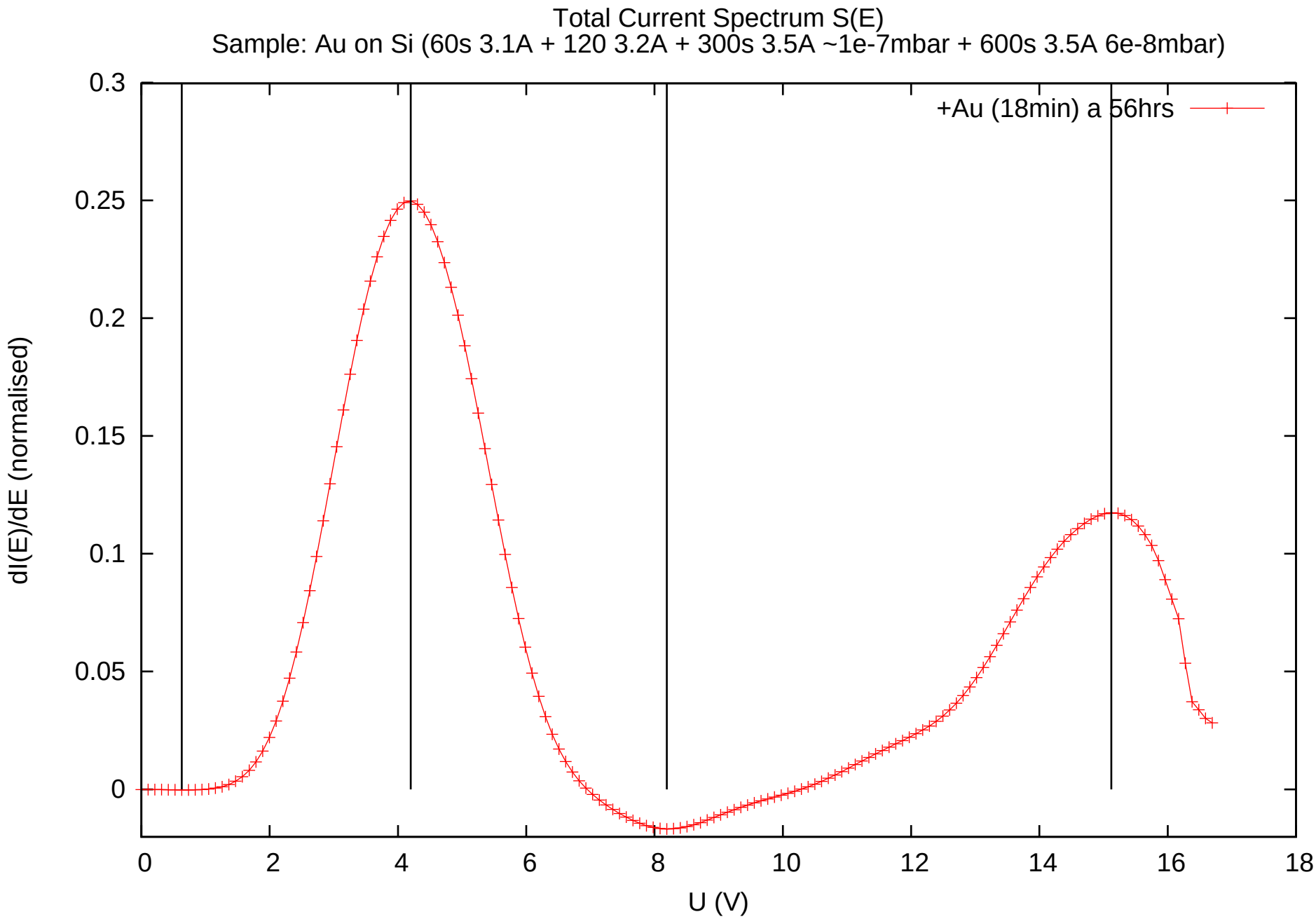

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 36hrs
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0
2
4
6
8
10
12
14
16
18

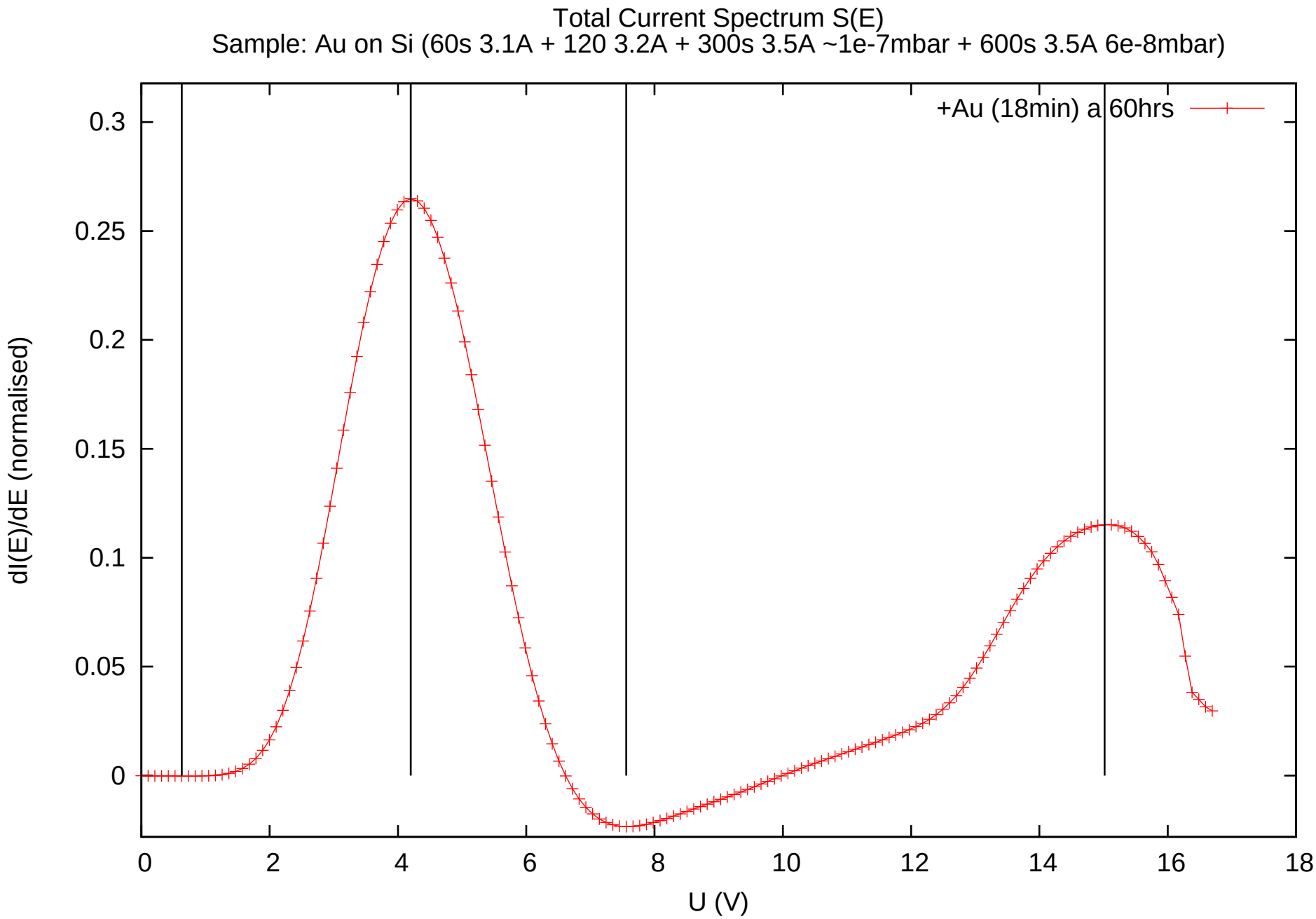

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 40hrs
dI(E)/dE (normalised)
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18
U (V)

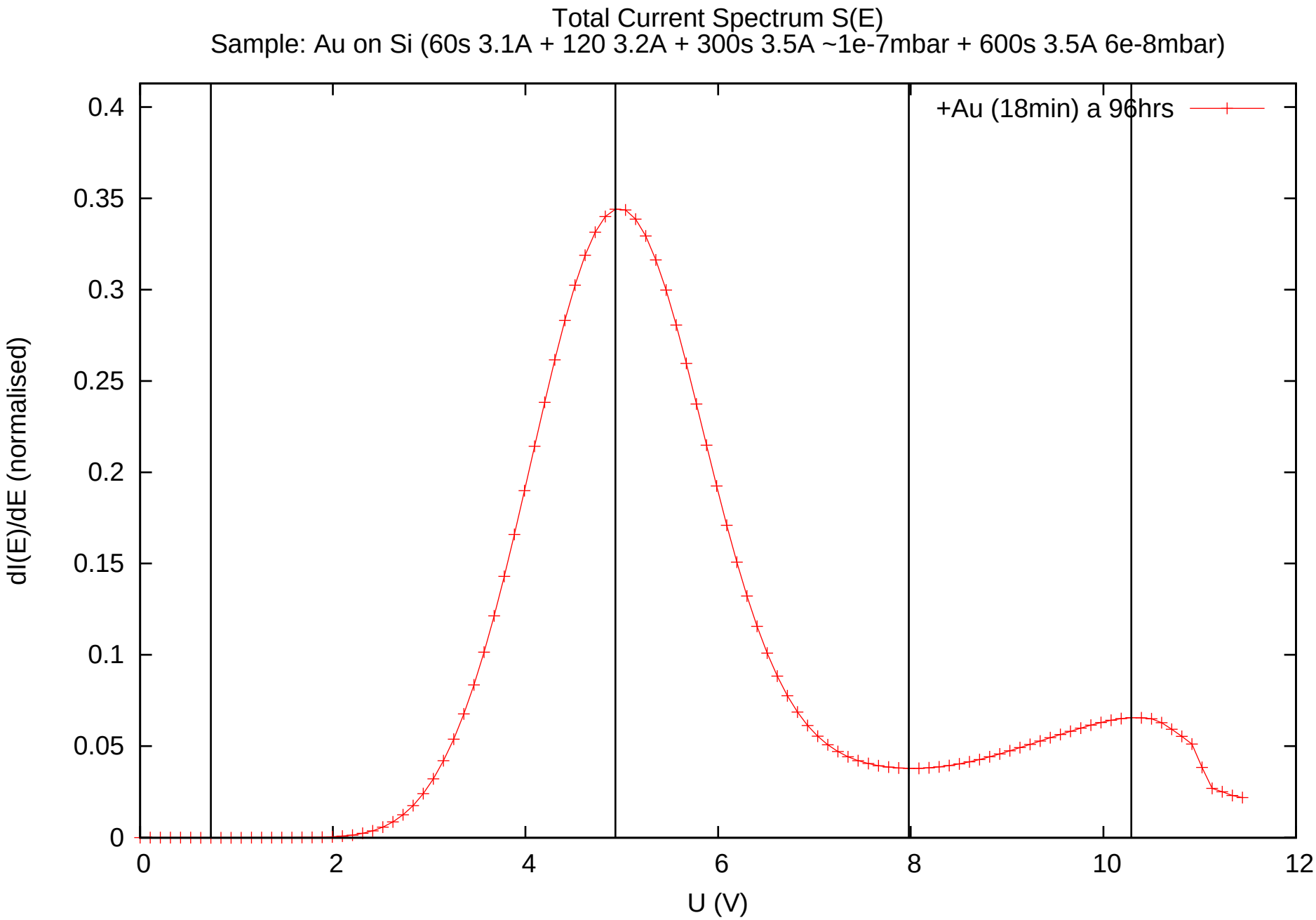

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 44hrs
dI(E)/dE (normalised)
0
0.05
0.1
0.15
0.2
0.25
0.3
0
2
4
6
8
10
12
14
16
18
U (V)

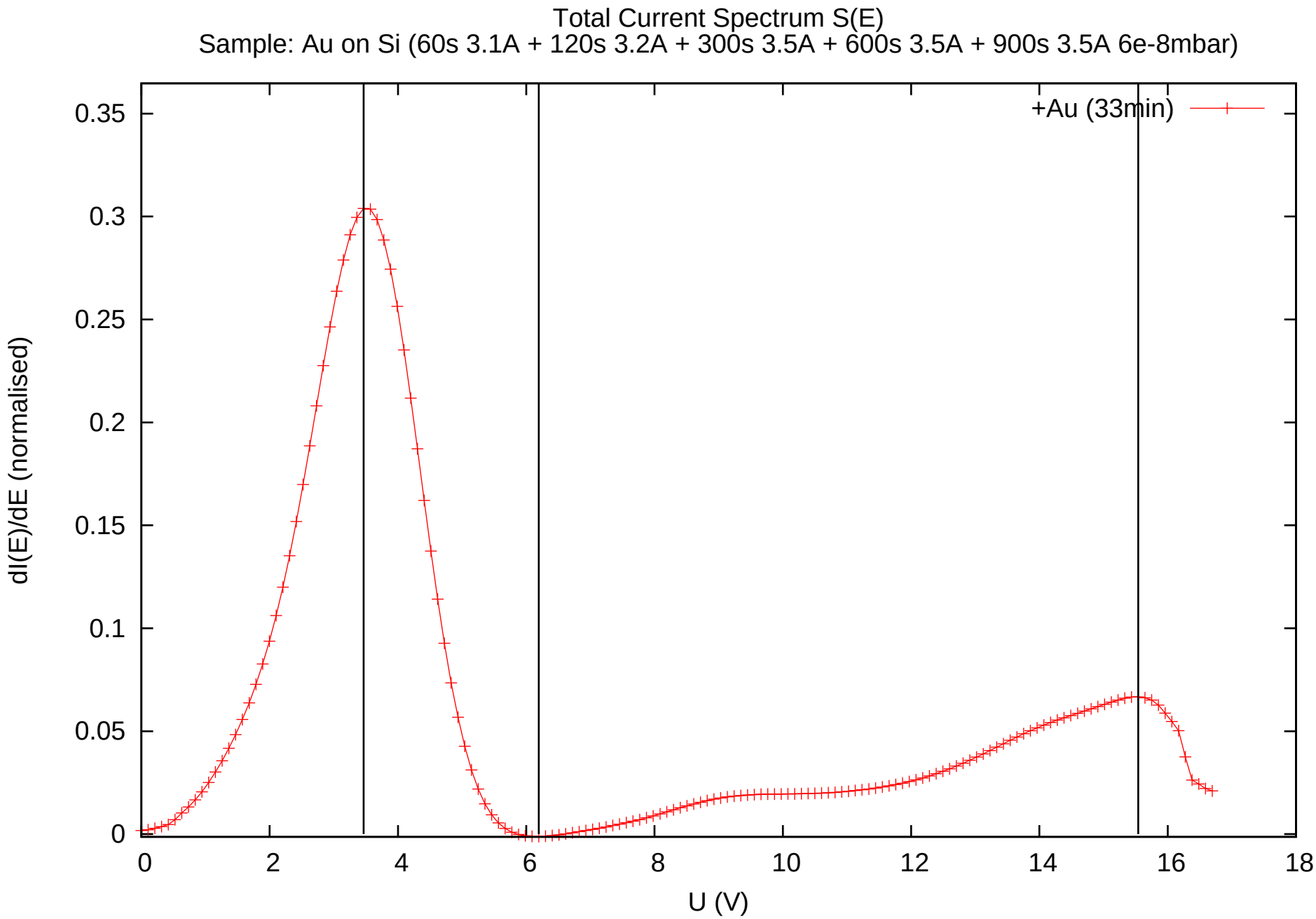

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 48hrs
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0
2
4
6
8
10
12
14
16
18

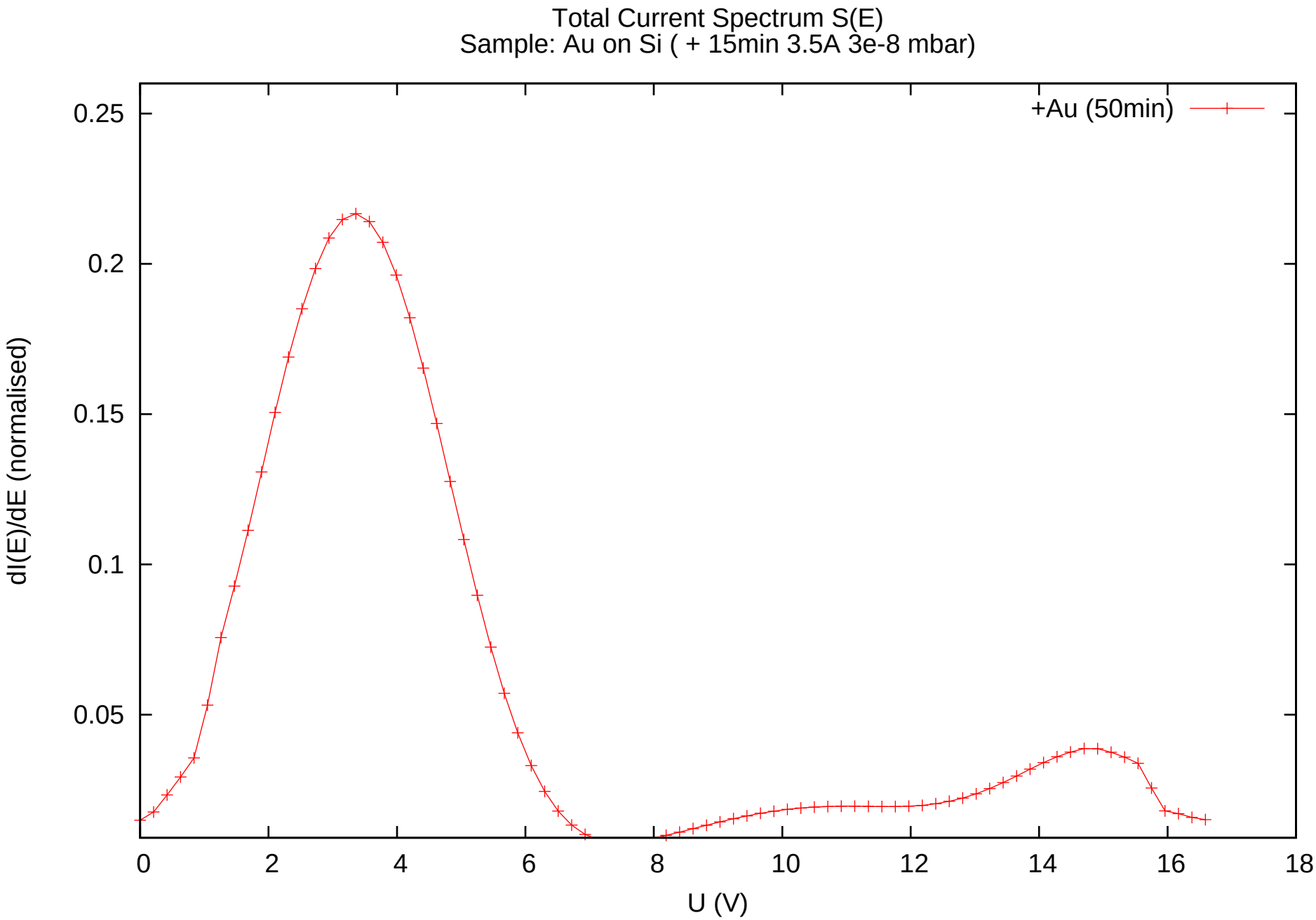

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 52hrs
dI(E)/dE (normalised)
U (V)
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

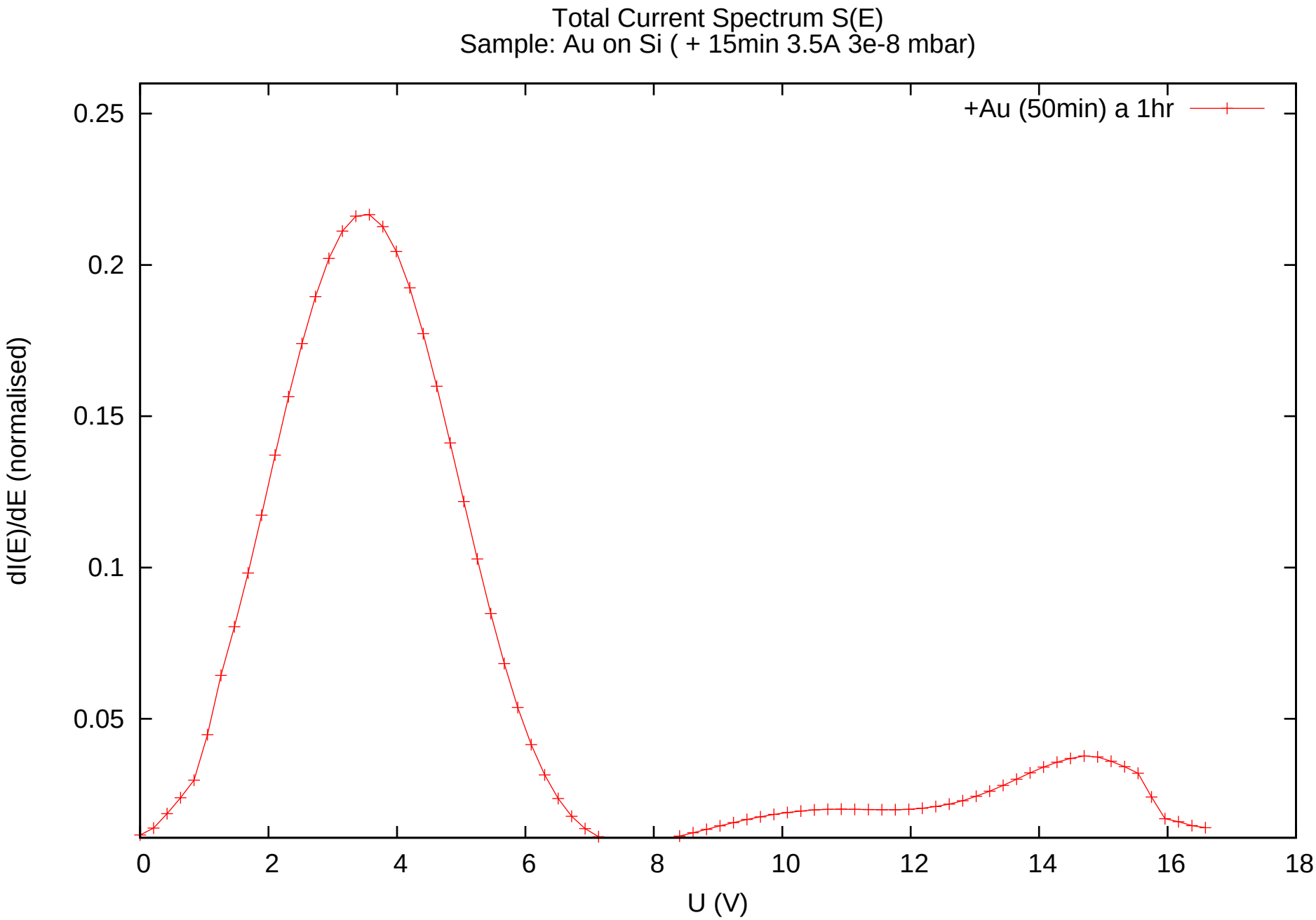

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 56hrs
dI(E)/dE (normalised)
U (V)
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

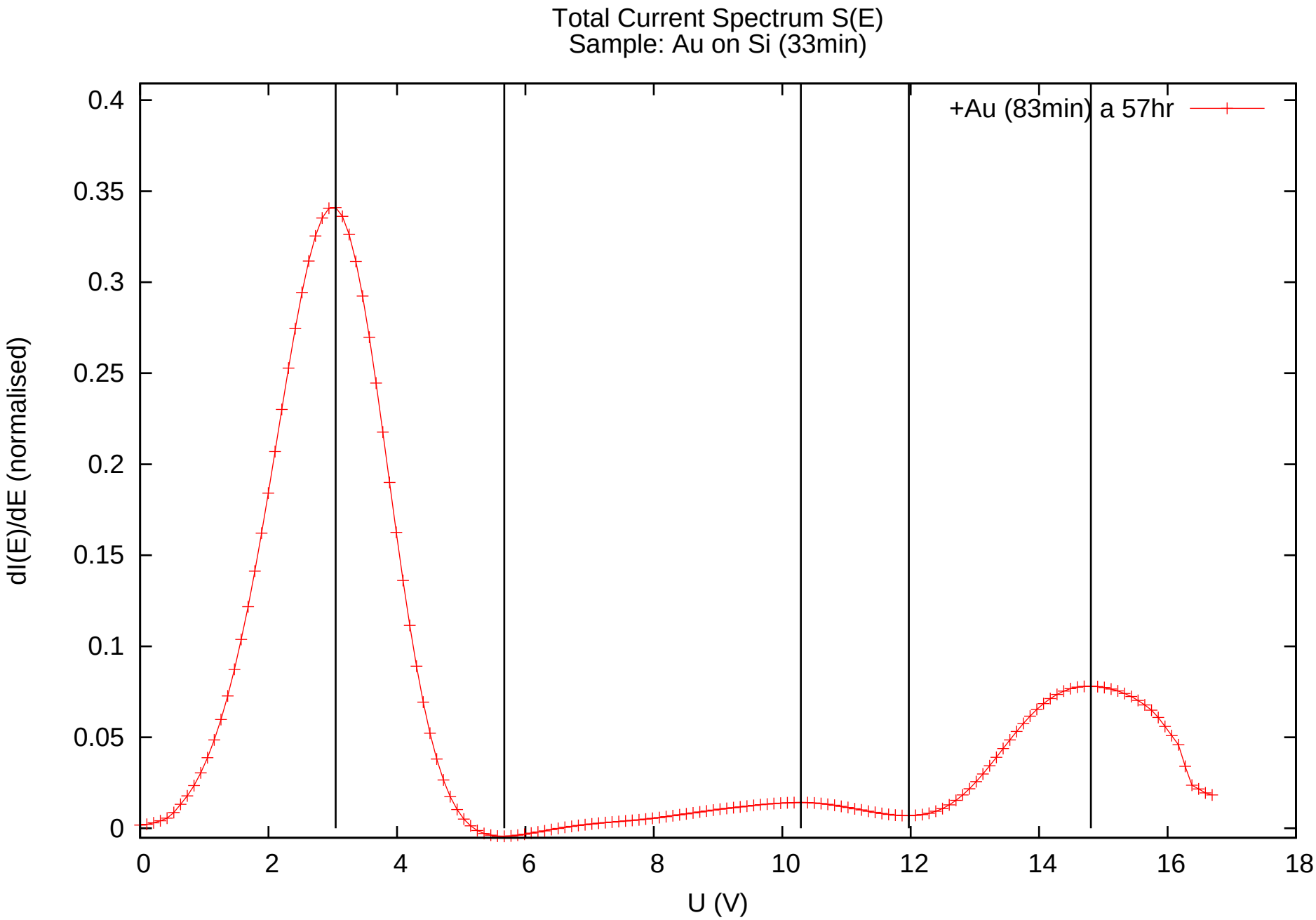

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 60hrs
dI(E)/dE (normalised)
U (V)
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
18

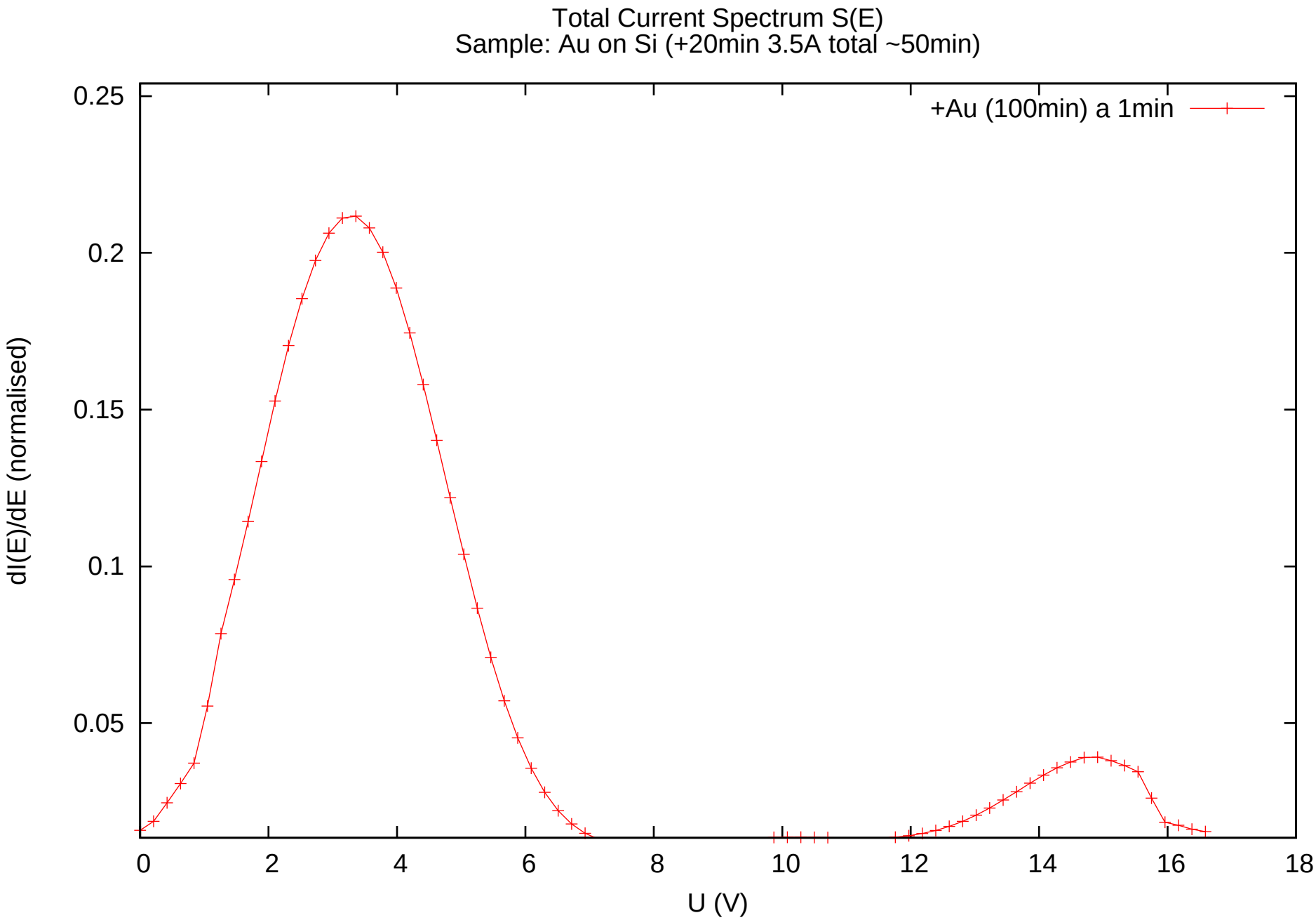

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120 3.2A + 300s 3.5A ~1e-7mbar + 600s 3.5A 6e-8mbar)
+Au (18min) a 96hrs
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0
2
4
6
8
10
12

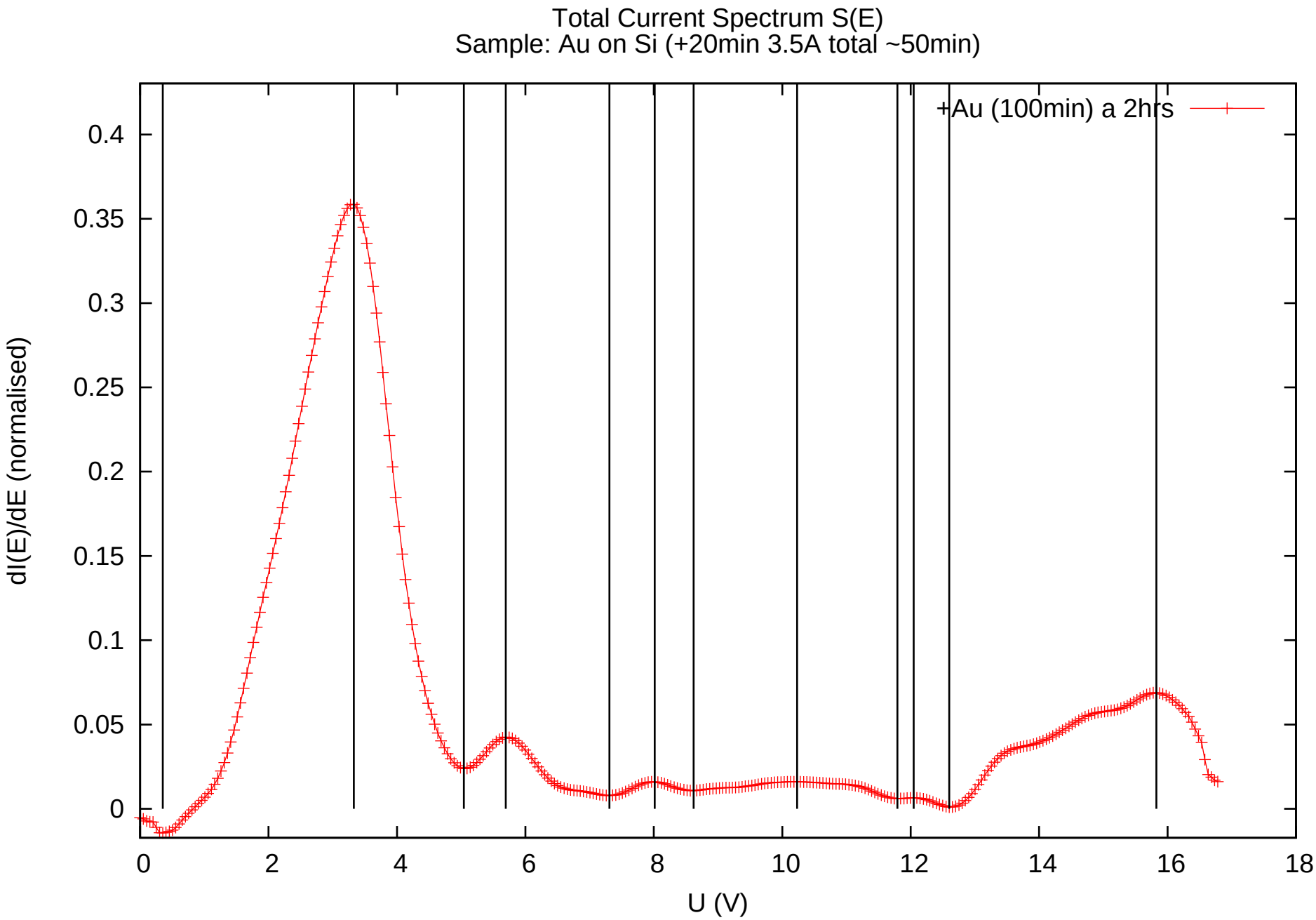

Total Current Spectrum S(E)
Sample: Au on Si (60s 3.1A + 120s 3.2A + 300s 3.5A + 600s 3.5A + 900s 3.5A 6e-8mbar)
+Au (33min)
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0
2
4
6
8
10
12
14
16
18

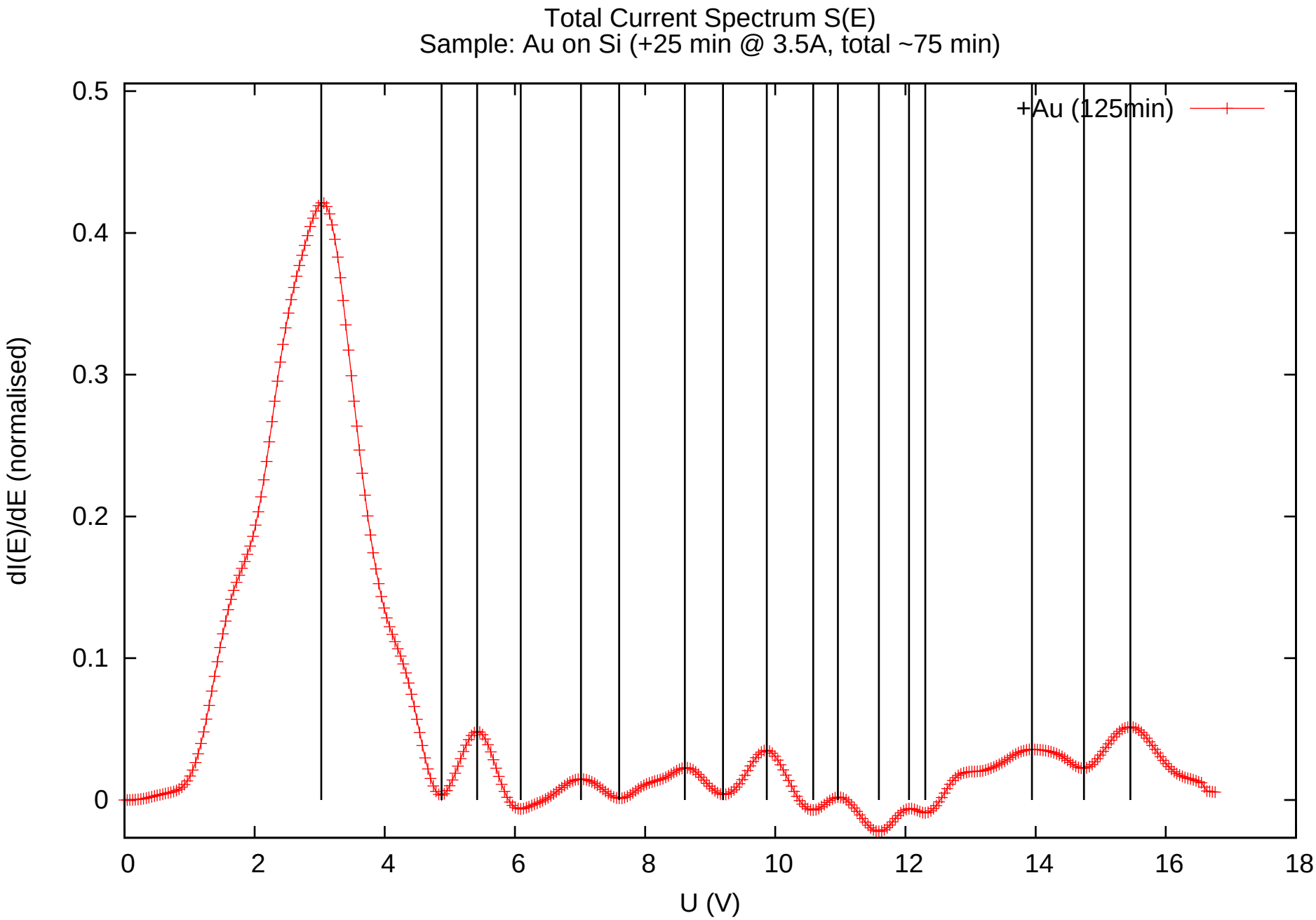

Total Current Spectrum S(E)
Sample: Au on Si (+ 15min 3.5A 3e-8 mbar)
+Au (50min)
dI(E)/dE (normalised)
U (V)
0.25
0.2
0.15
0.1
0.05
0
2
4
6
8
10
12
14
16
18

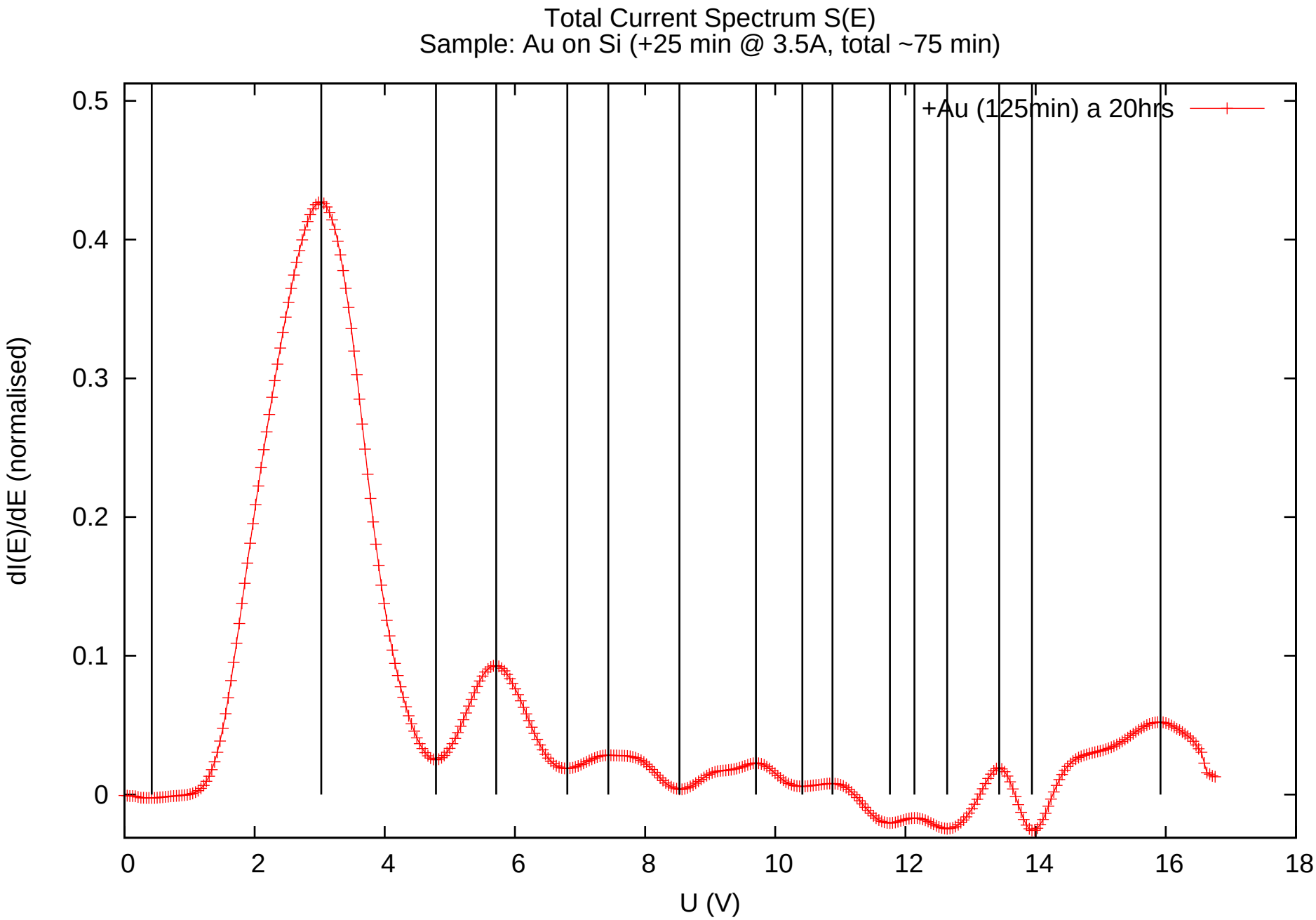

Total Current Spectrum S(E)
Sample: Au on Si (+ 15min 3.5A 3e-8 mbar)
+Au (50min) a 1hr
dI(E)/dE (normalised)
0.25
0.2
0.15
0.1
0.05
0
2
4
6
8
10
12
14
16
18
U (V)

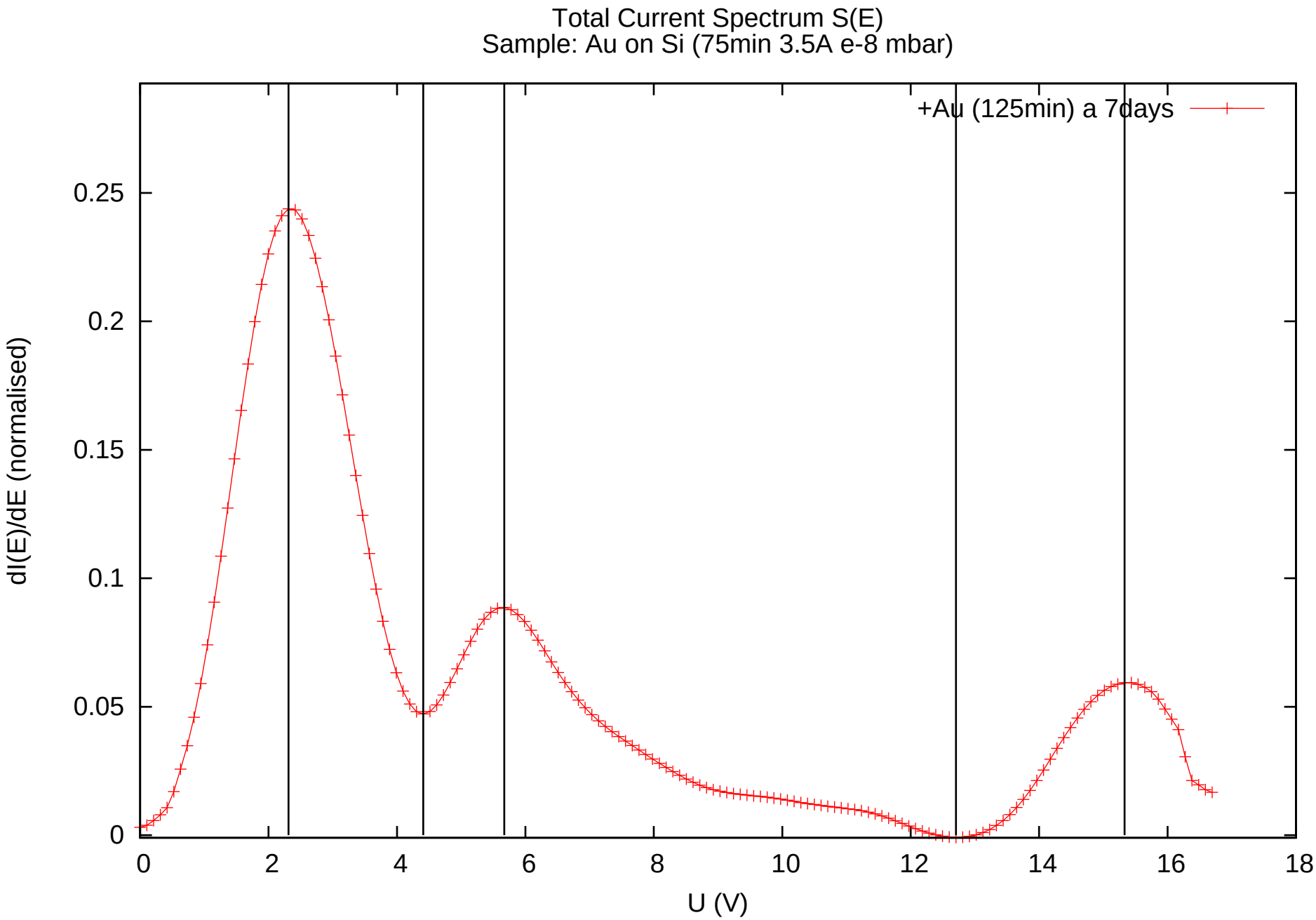

Total Current Spectrum S(E)
Sample: Au on Si (33min)
+Au (83min) a 57hr
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0
2
4
6
8
10
12
14
16
18

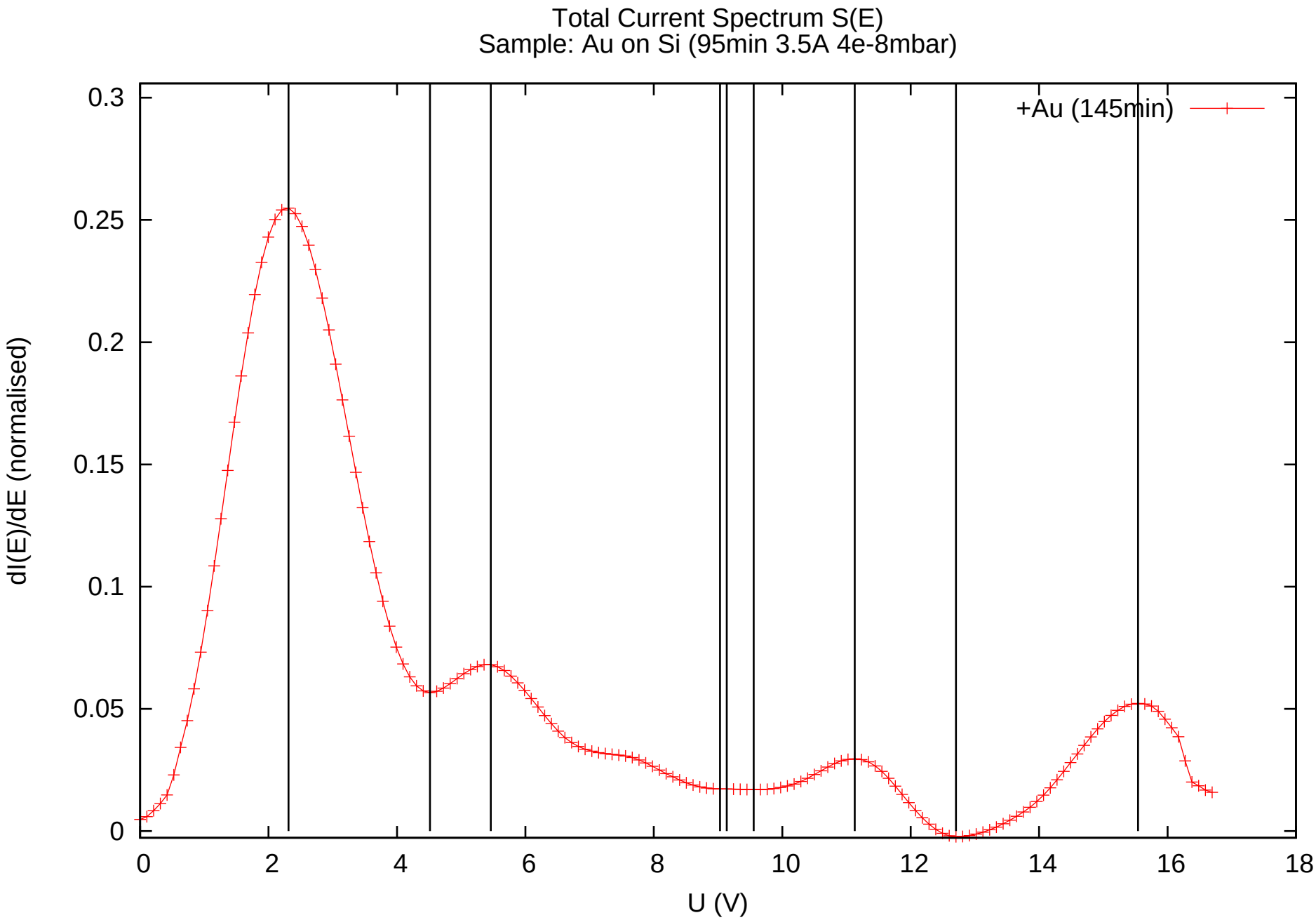

Total Current Spectrum S(E)
Sample: Au on Si (+20min 3.5A total ~50min)
+Au (100min) a 1min
dI(E)/dE (normalised)
U (V)
0.25
0.2
0.15
0.1
0.05
0
2
4
6
8
10
12
14
16
18


Total Current Spectrum S(E)
Sample: Au on Si (+20min 3.5A total ~50min)
+Au (100min) a 2hrs
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0
2
4
6
8
10
12
14
16
18


Total Current Spectrum S(E)
Sample: Au on Si (+25 min @ 3.5A, total ~75 min)
+Au (125min)
dI(E)/dE (normalised)
U (V)
0.5
0.4
0.3
0.2
0.1
0
0
2
4
6
8
10
12
14
16
18


Total Current Spectrum S(E)
Sample: Au on Si (+25 min @ 3.5A, total ~75 min)
+Au (125min) a 20hrs
dI(E)/dE (normalised)
U (V)
0.5
0.4
0.3
0.2
0.1
0
0
2
4
6
8
10
12
14
16
18


Total Current Spectrum S(E)
Sample: Au on Si (75min 3.5A e-8 mbar)
+Au (125min) a 7days
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0
2
4
6
8
10
12
14
16
18


Total Current Spectrum S(E)
Sample: Au on Si (95min 3.5A 4e-8mbar)
+Au (145min)
dI(E)/dE (normalised)
U (V)
0
0.05
0.1
0.15
0.2
0.25
0.3
0
2
4
6
8
10
12
14
16
18