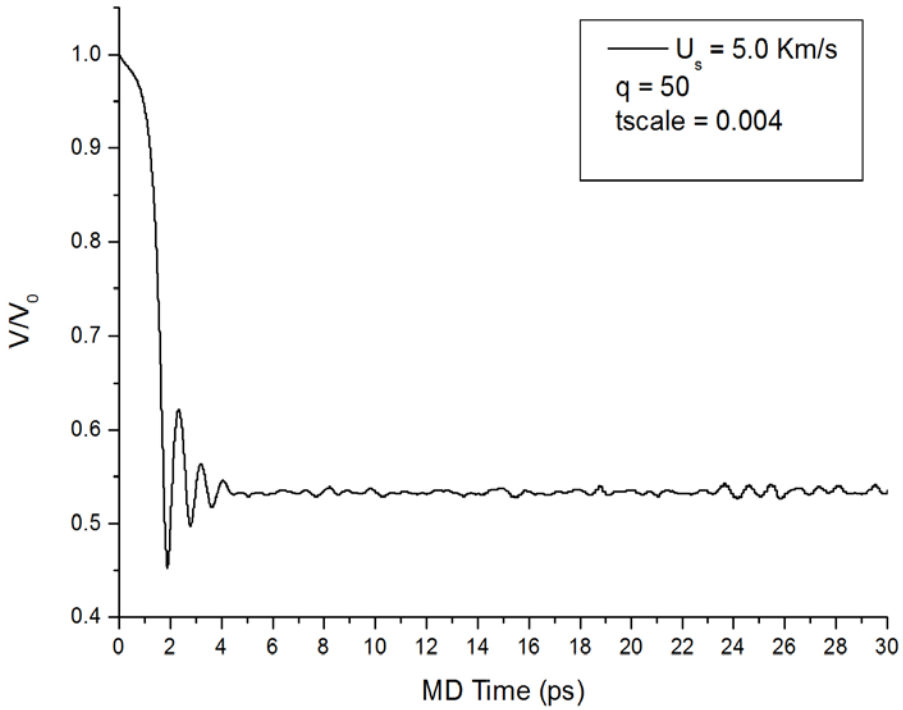
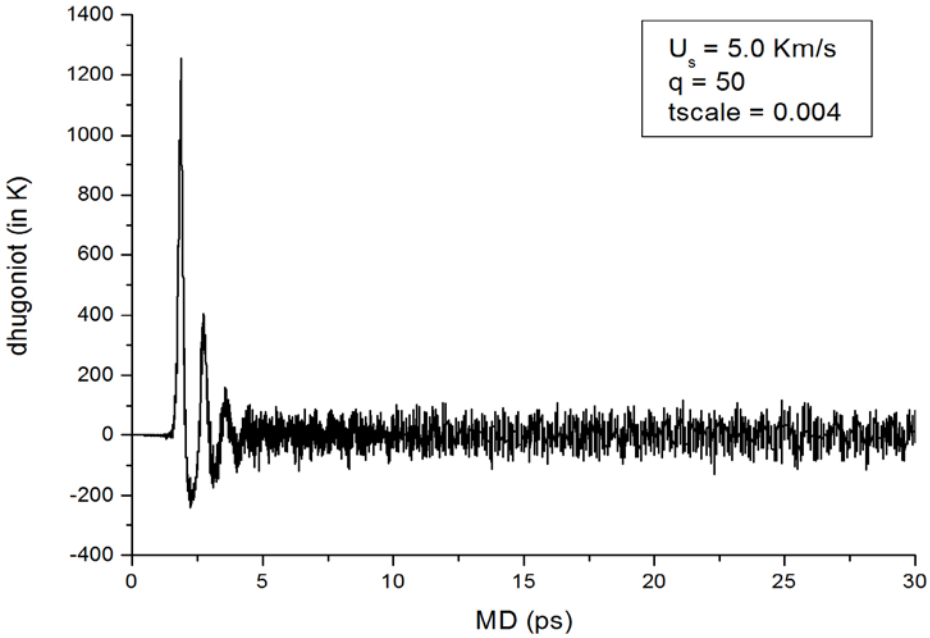
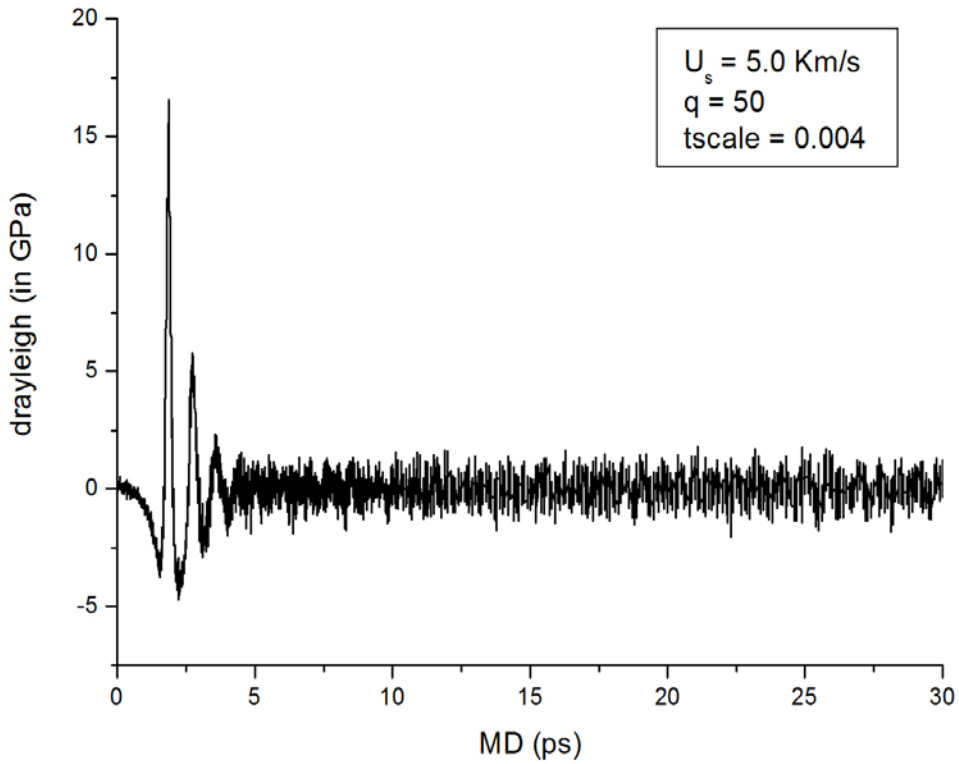
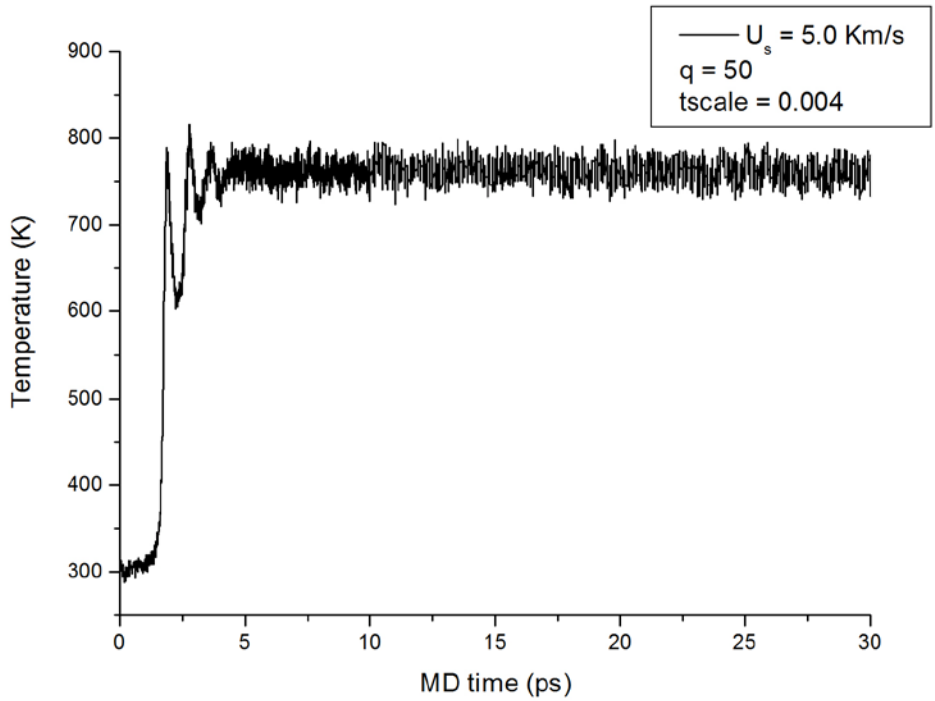
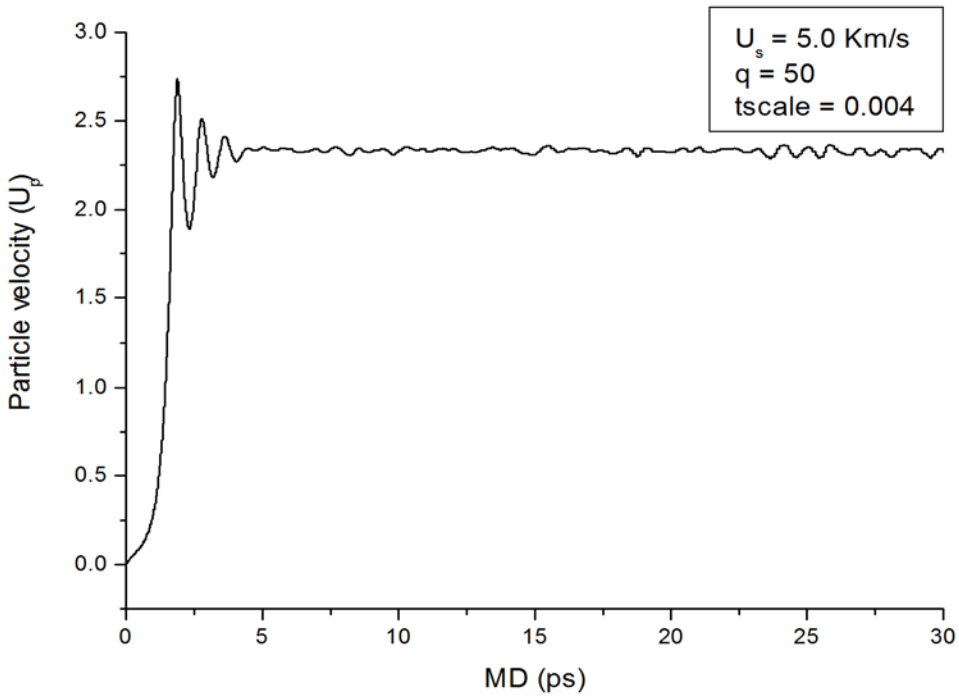
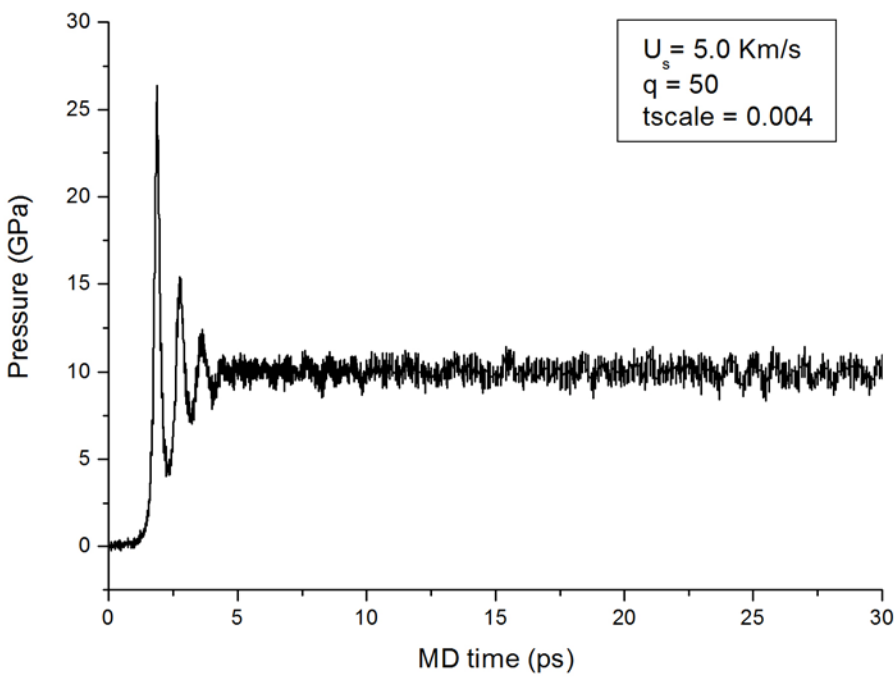

U_s = 5.0 Km/s
q = 50
tscale = 0.004
V/V_0
MD Time (ps)

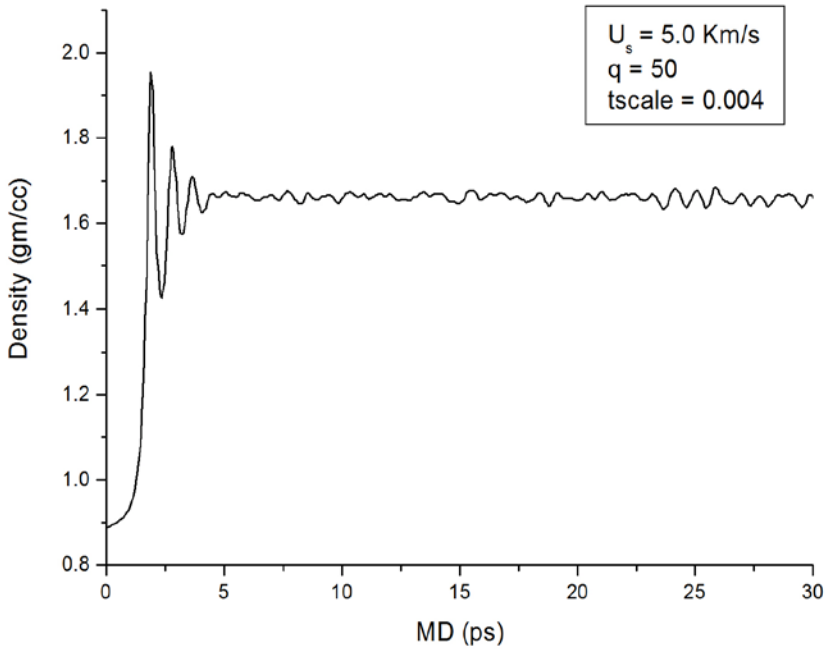

U_s = 5.0 Km/s
q = 50
tscale = 0.004
dhugoniot (in K)
MD (ps)

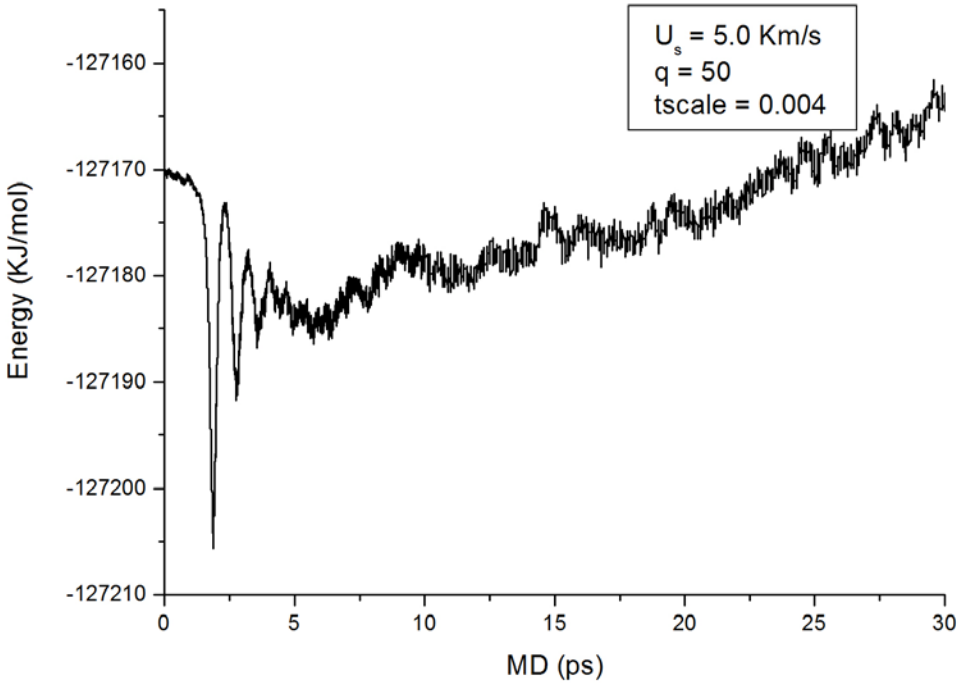

U_s = 5.0 Km/s
q = 50
tscale = 0.004
drayleigh (in GPa)
MD (ps)
20
15
10
5
0
-5
0
5
10
15
20
25
30

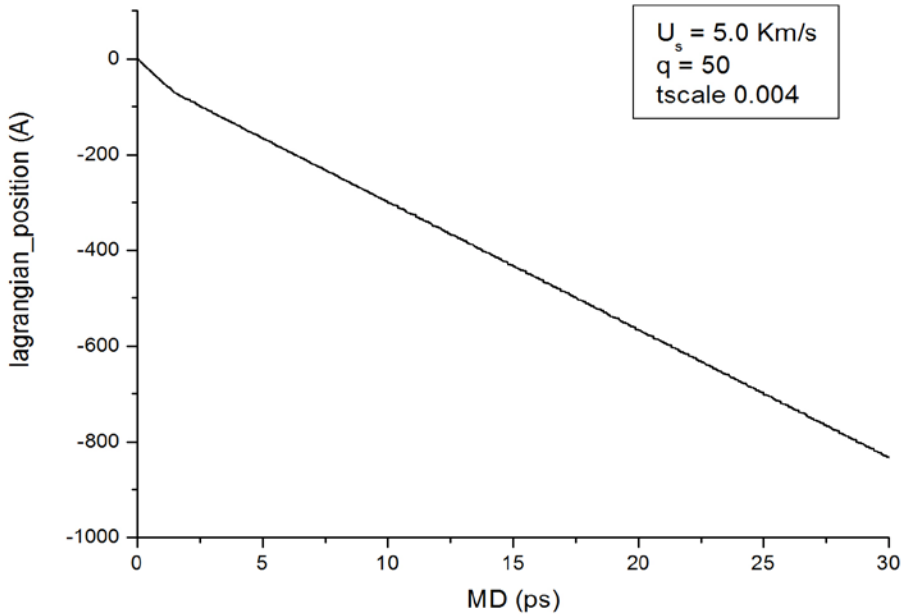

U_s = 5.0 Km/s
q = 50
tscale = 0.004
Temperature (K)
MD time (ps)
900
800
700
600
500
400
300
0
5
10
15
20
25
30


U_s = 5.0 Km/s
q = 50
tscale = 0.004
Particle velocity (U_p)
MD (ps)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30


U_s = 5.0 Km/s
q = 50
tscale = 0.004
Pressure (GPa)
MD time (ps)
30
25
20
15
10
5
0
0
5
10
15
20
25
30


U_s = 5.0 Km/s
q = 50
tscale = 0.004
Density (gm/cc)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0
5
10
15
20
25
30
MD (ps)


U_s = 5.0 Km/s
q = 50
tscale = 0.004
Energy (KJ/mol)
-127160
-127170
-127180
-127190
-127200
-127210
0
5
10
15
20
25
30
MD (ps)


U_s = 5.0 Km/s
q = 50
tscale 0.004
lagrangian_position (A)
0
-200
-400
-600
-800
-1000
0
5
10
15
20
25
30
MD (ps)