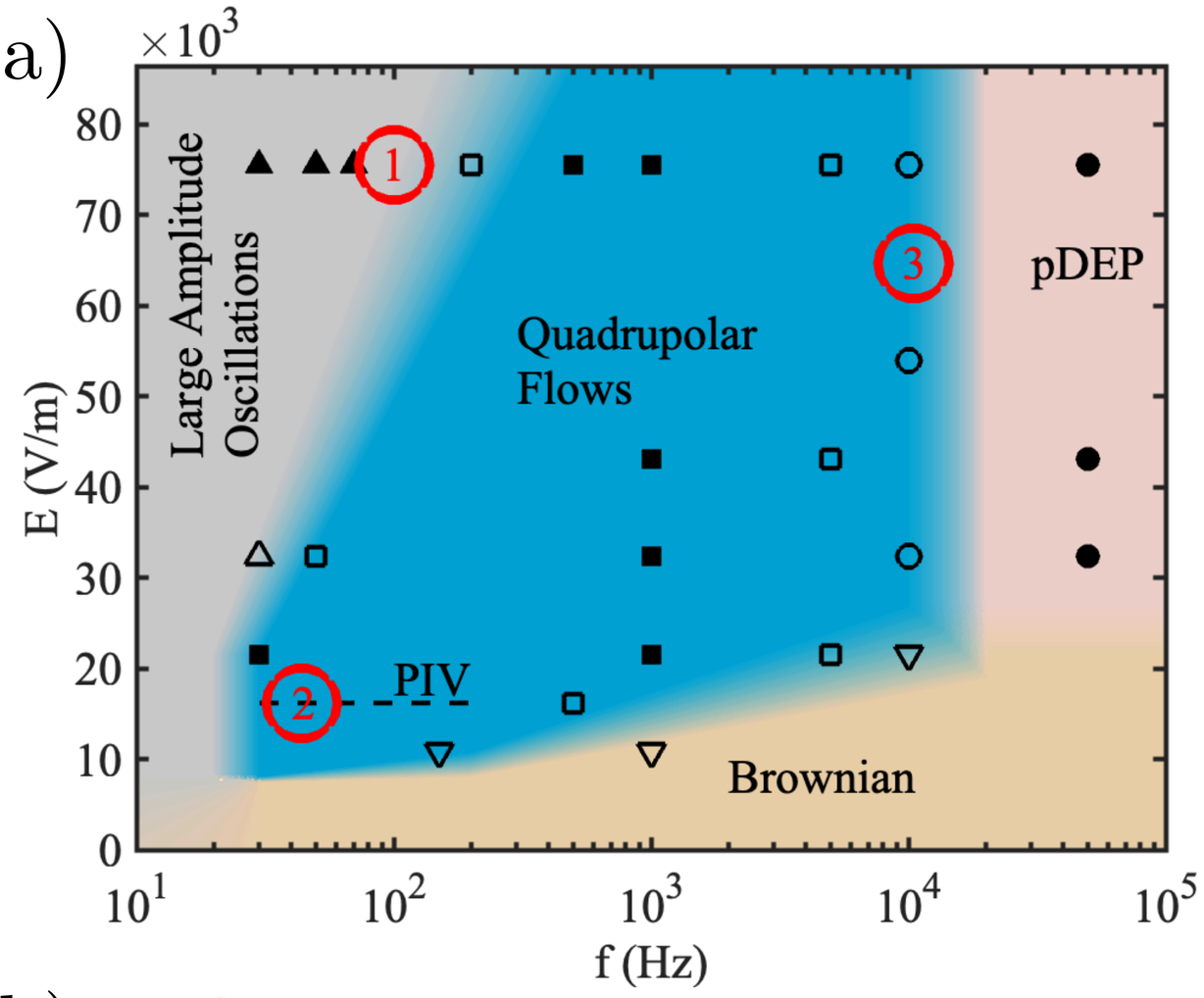
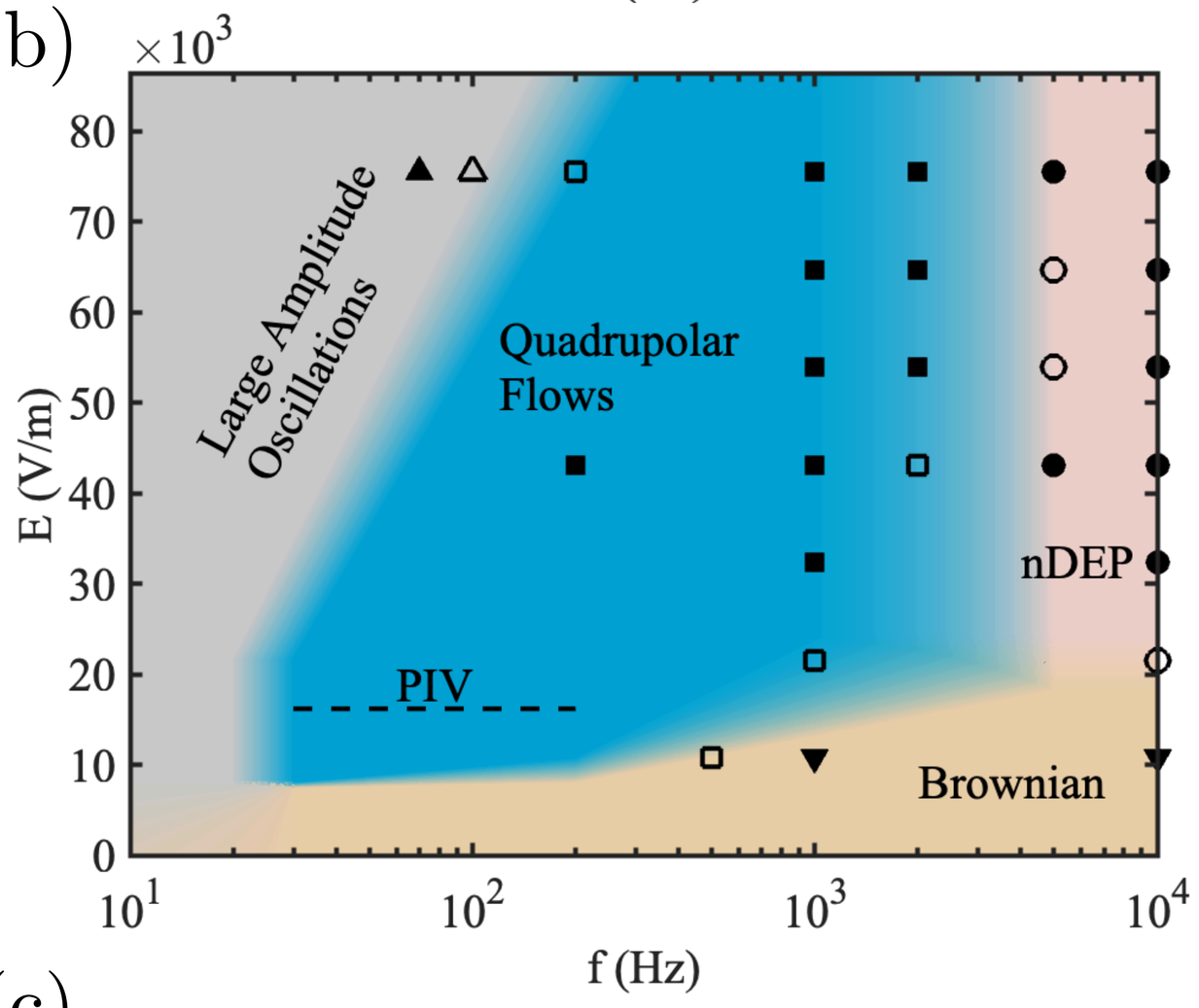
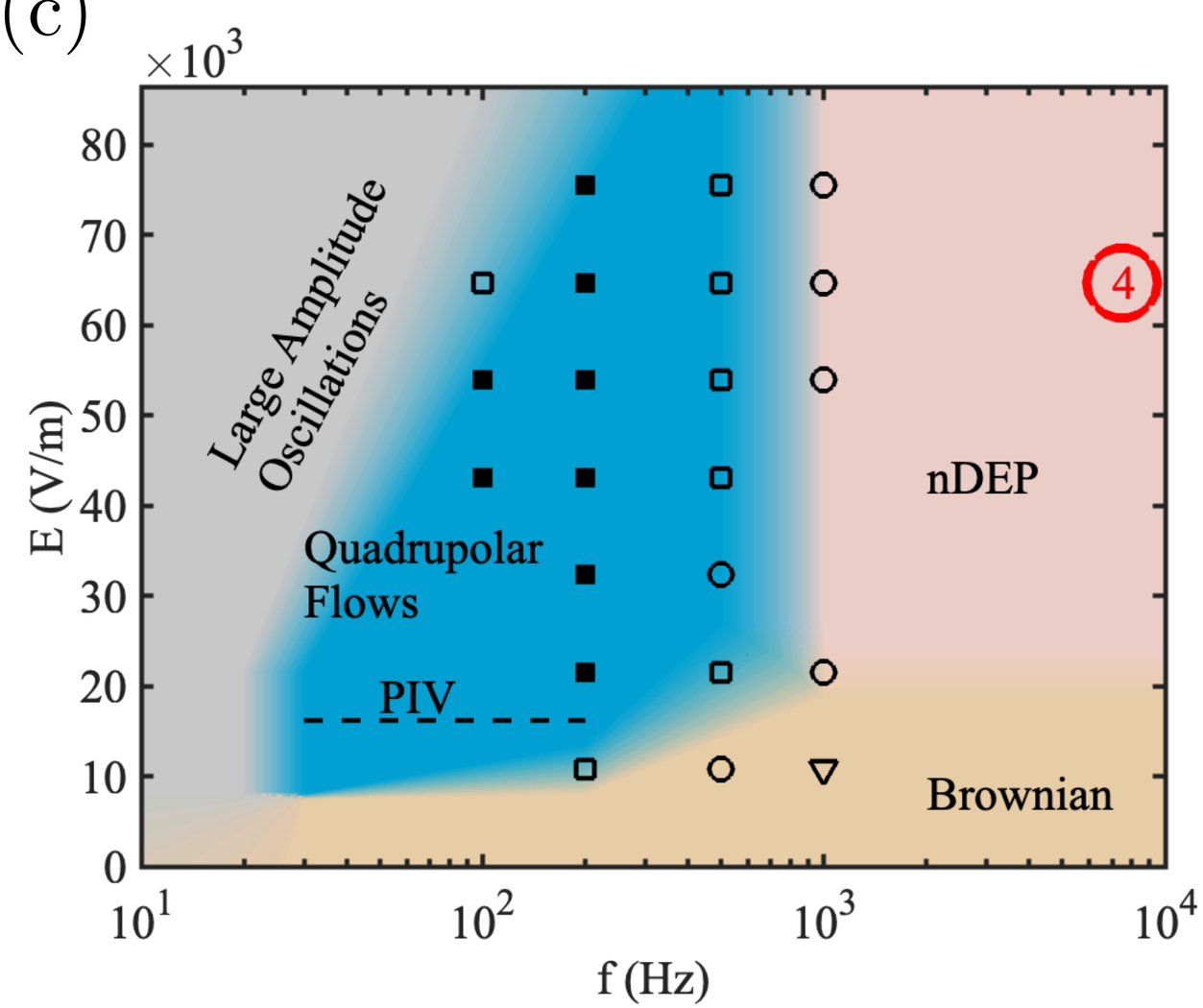
(a)

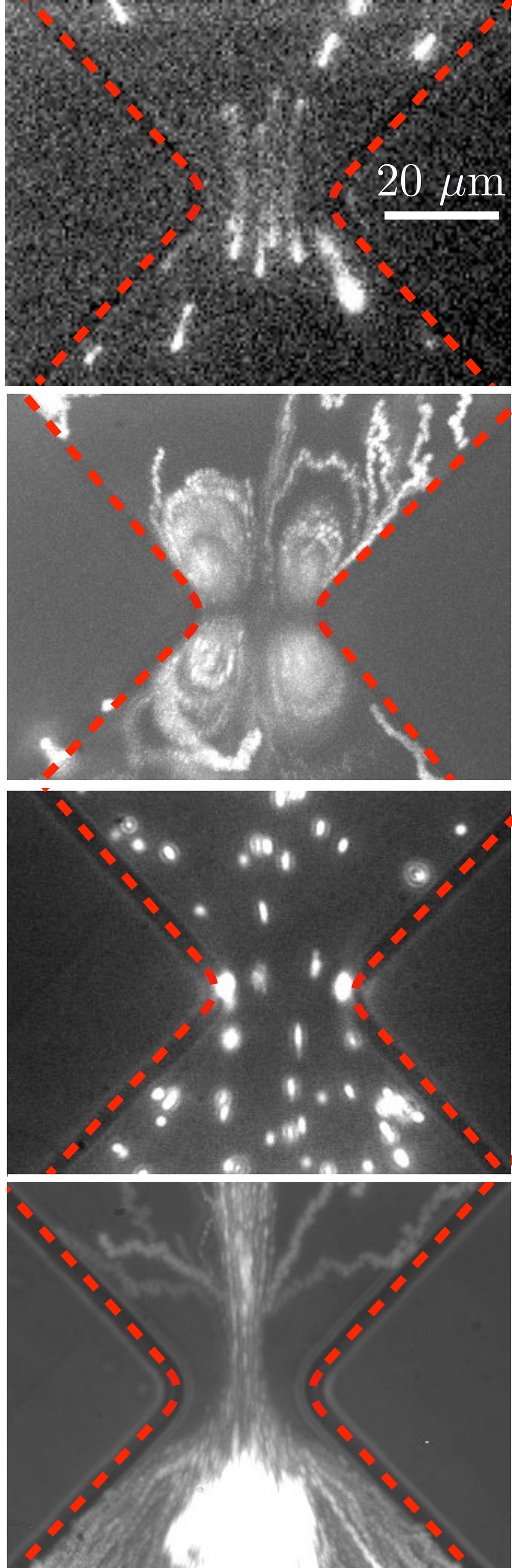

×10^3
80
70
60
50
40
30
20
10
0
E (V/m)
Large Amplitude Oscillations
Quadrupolar Flows
pDEP
PIV
Brownian
1
2
3
10^1
10^2
10^3
10^4
10^5
f (Hz)

(b)


×10^3
80
70
60
50
40
30
20
10
0
E (V/m)
Large Amplitude Oscillations
Quadrupolar Flows
nDEP
PIV
Brownian
10^1
10^2
10^3
10^4
f (Hz)

(c)


×10^3
80
70
60
50
40
30
20
10
0
E (V/m)
Large Amplitude Oscillations
Quadrupolar Flows
nDEP
PIV
Brownian
4
10^1
10^2
10^3
10^4
f (Hz)


1
20 μm
2
3
4