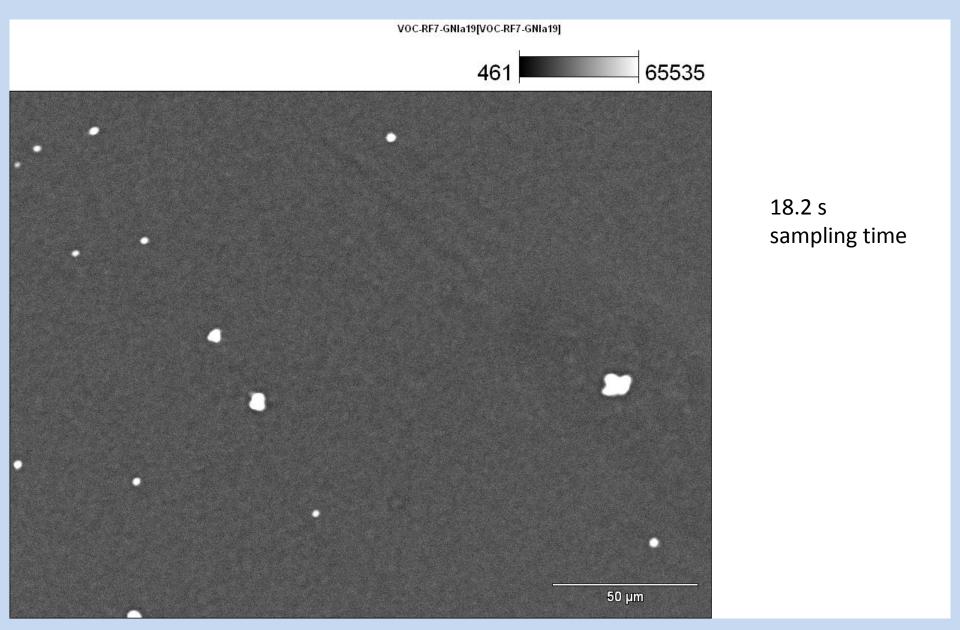
Jim Anderson Arizona State University

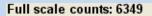
Aerosol and cloud droplet residue compositionand size distributions

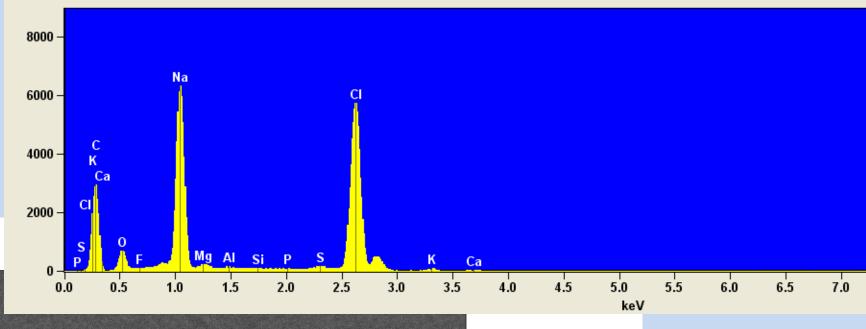
GNI slides from POC in RF7 CVI samples from polluted area in RF12

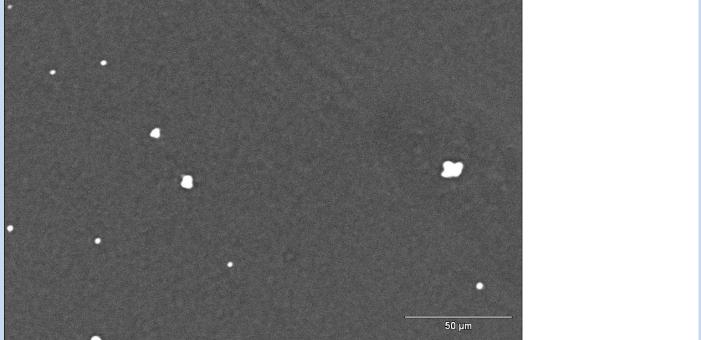
GNI slide analysis by automated SEM



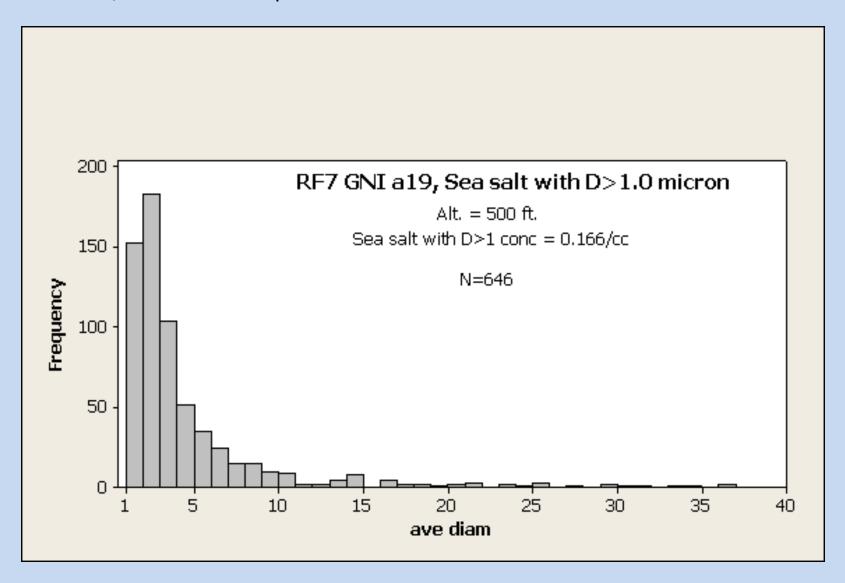
Accelerating Voltage: 15.0 kV Magnification: 500

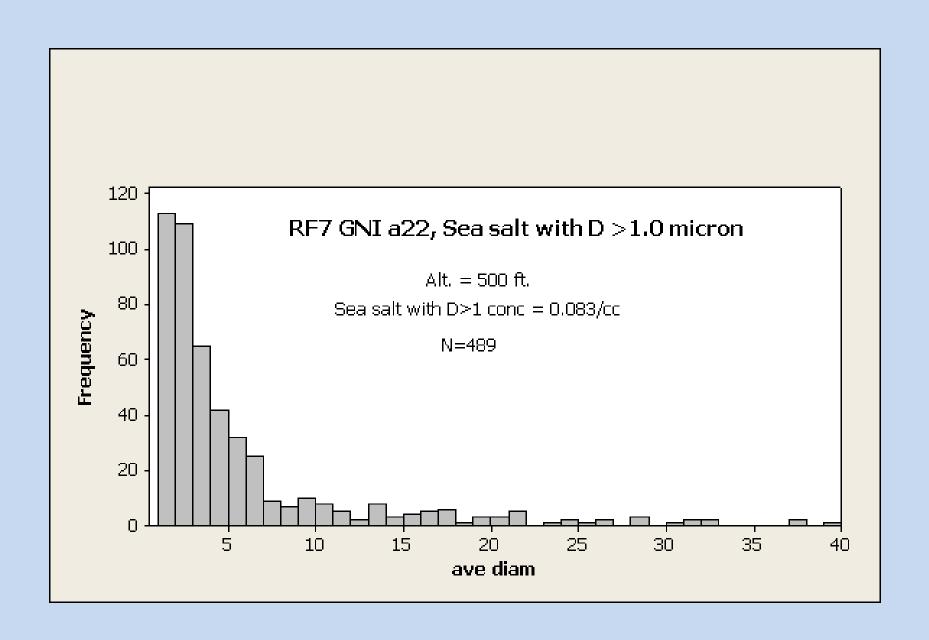


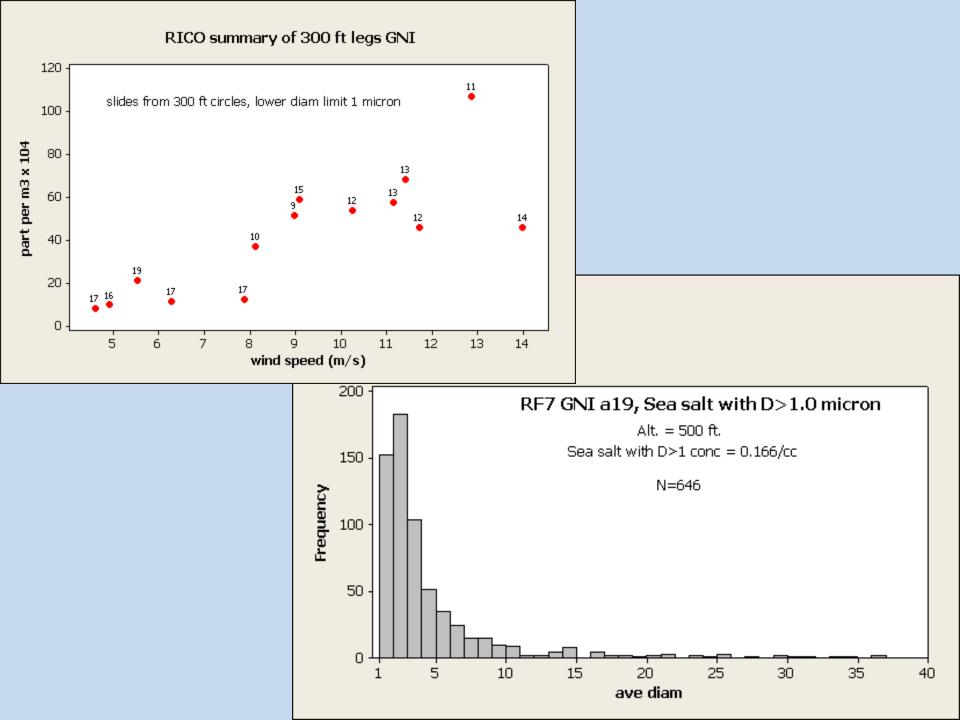




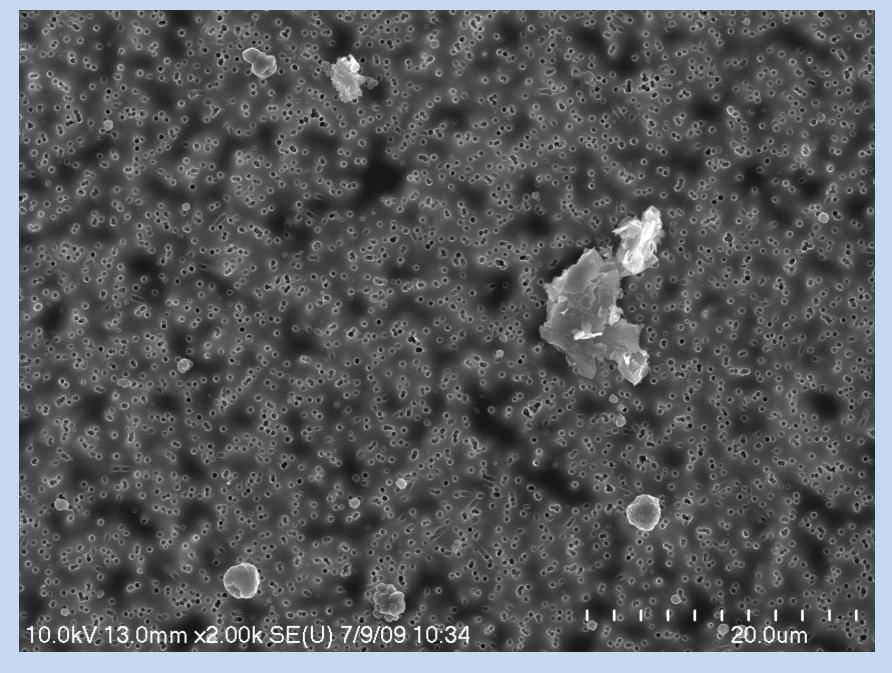
RF7 POC, Giant Nuclei Impactor results



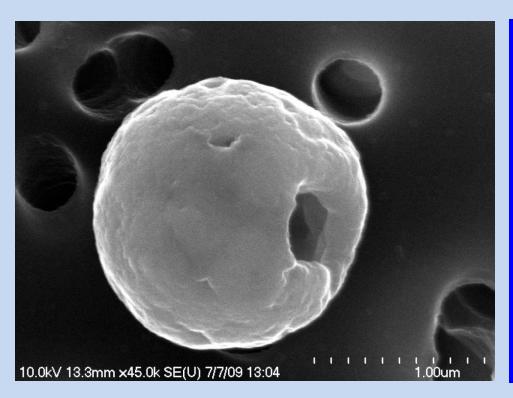


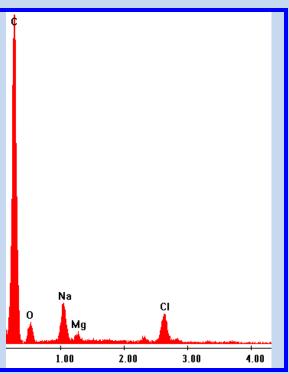


FEG SEM imaging of CVI samples from polluted clouds during RF12



Vocals RF12-CS1 (X2000 image-2)

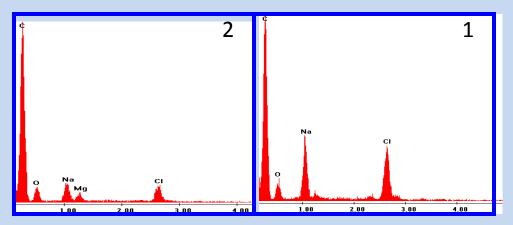




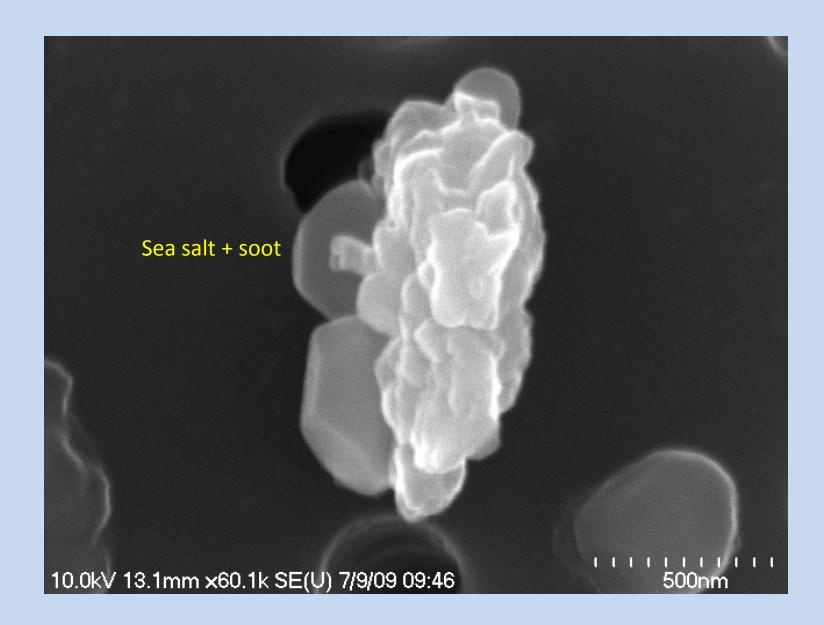
Vocals RF12-CS2

1.00um 10.0kV 13.1mm x40.0k SE(U) 7/9/09 10:00

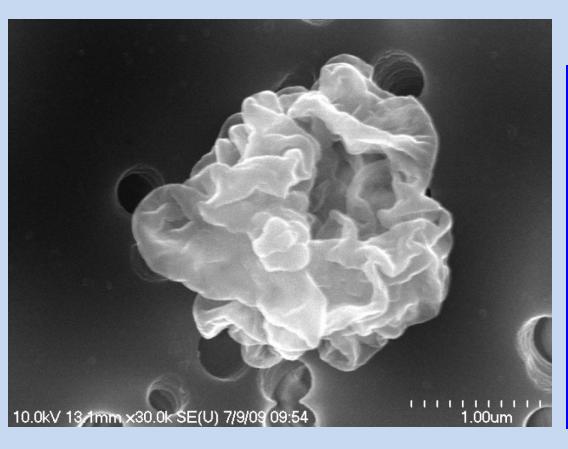
Sea salt + small soot

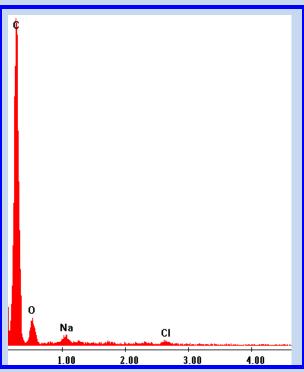


Vocals RF12-CS2

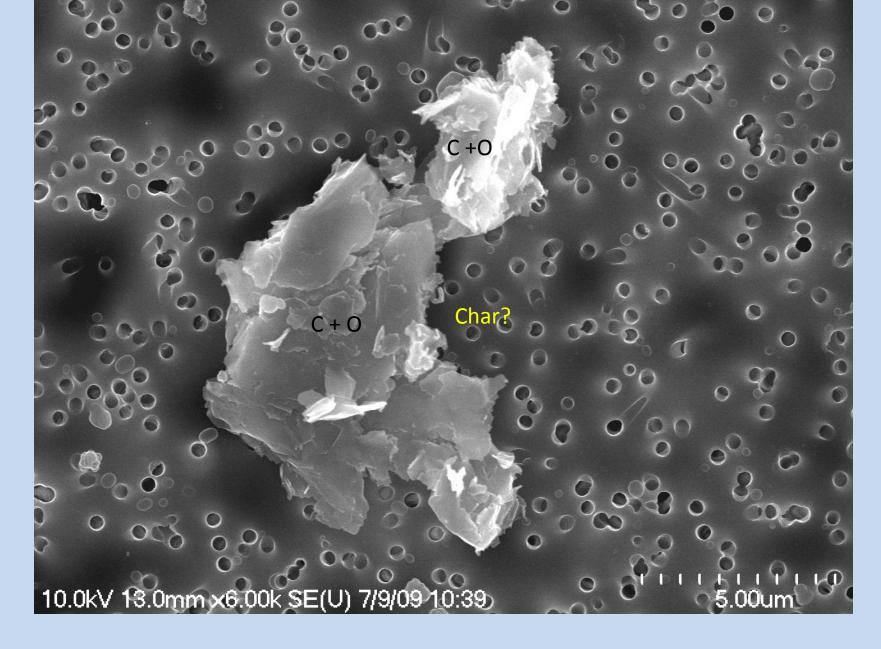


Vocals RF12-CS2

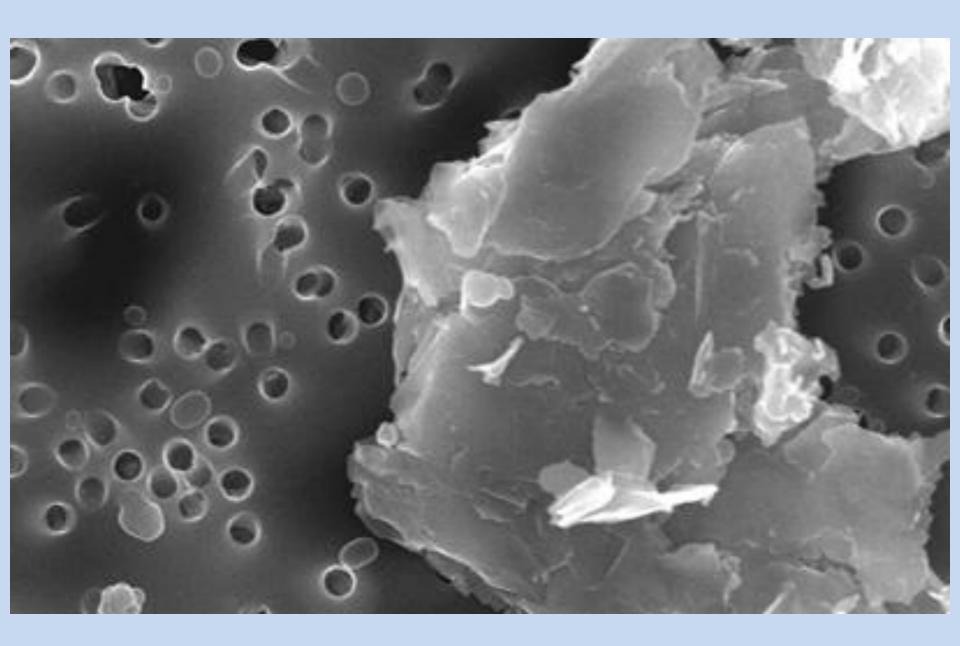


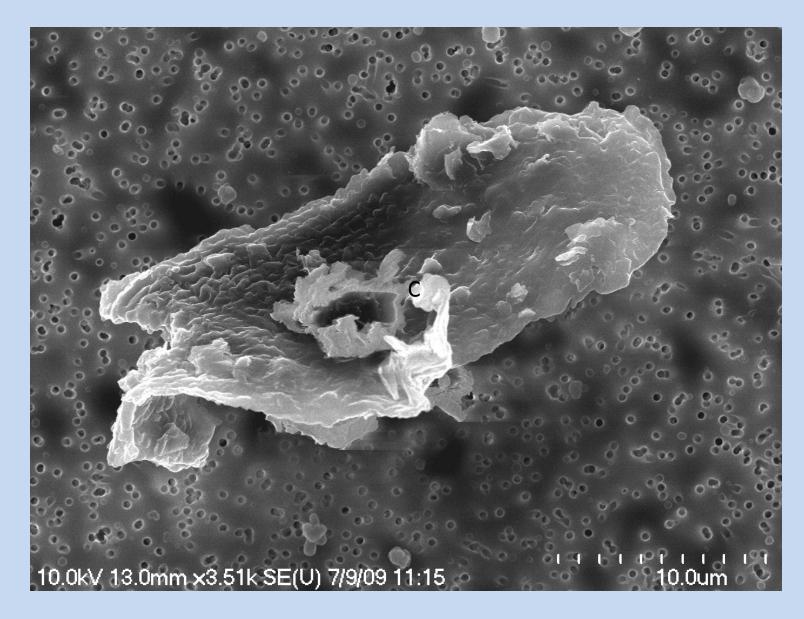


Biogenic? + small soot

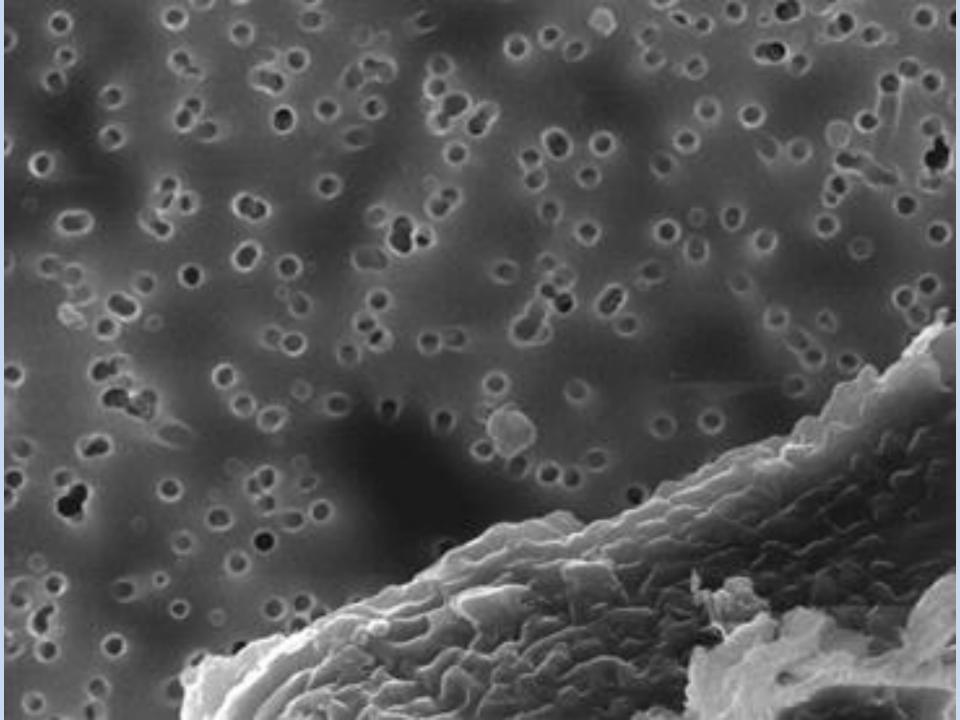


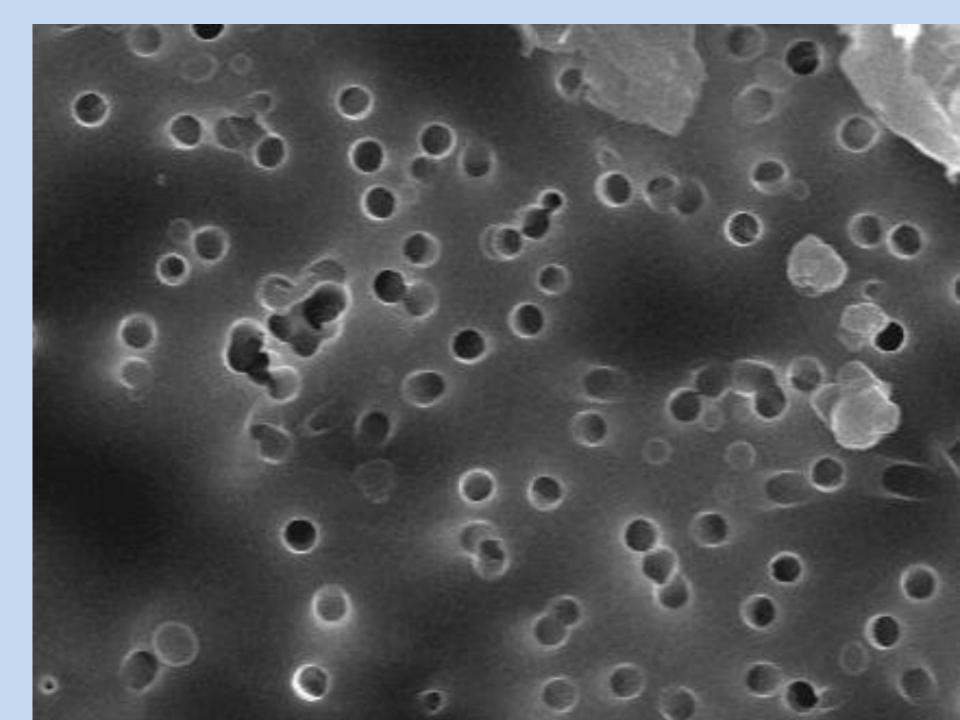
Vocals RF12-CS1

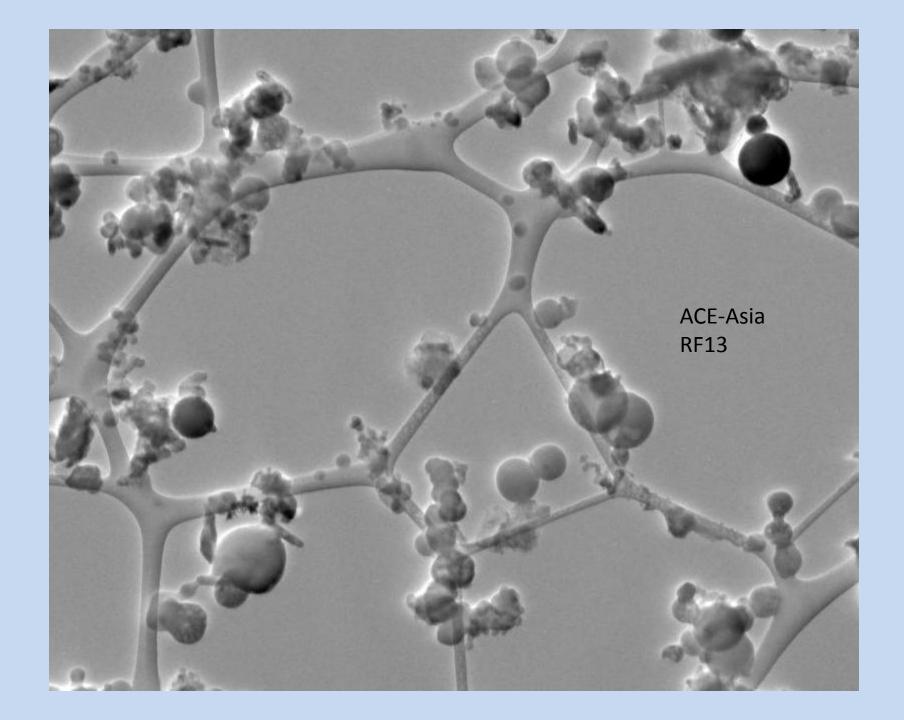




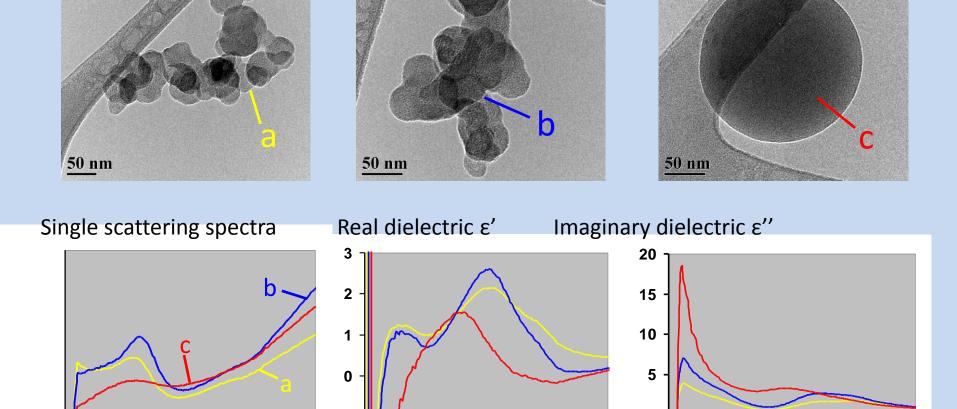
Particle in polluted Vocals RF12-CS1







ACE-Asia ambient aerosols



10

Energy (eV)

15

20

15

20

10

Energy (eV)

- Particle c shows very different dielectric properties in 1 − 4 eV range
- Differences between soot particles a and b are more significant

15

Energy (eV)

20