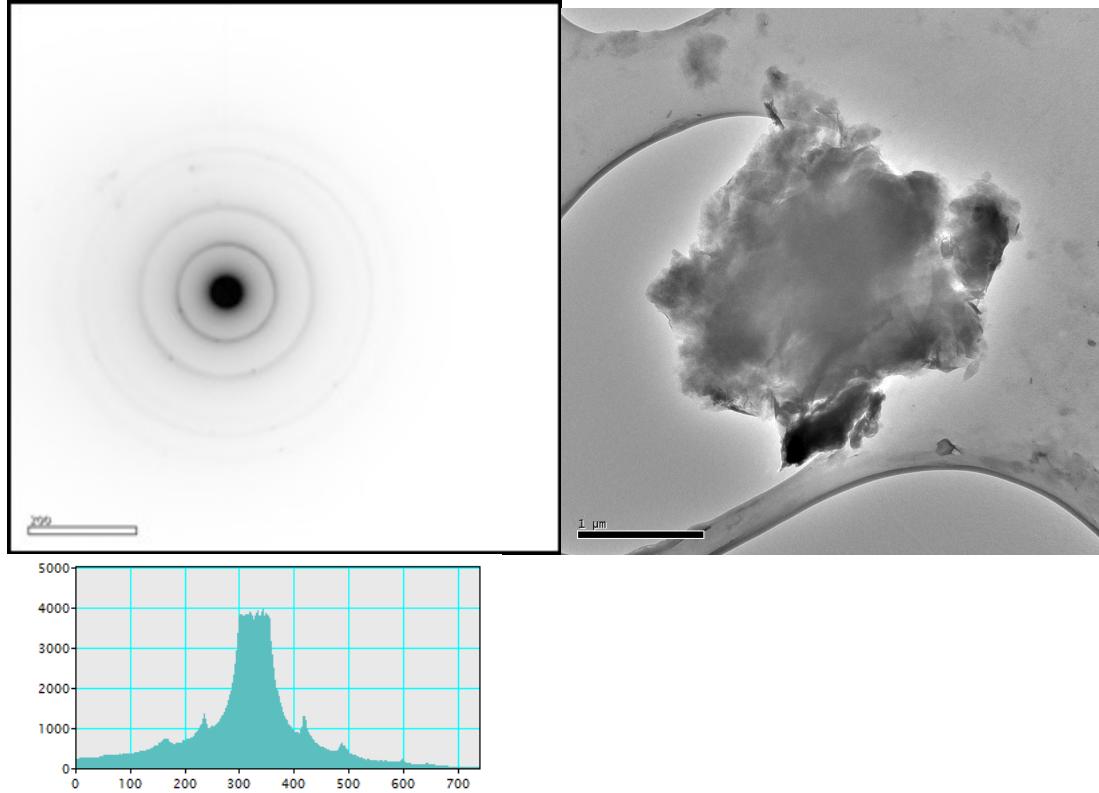
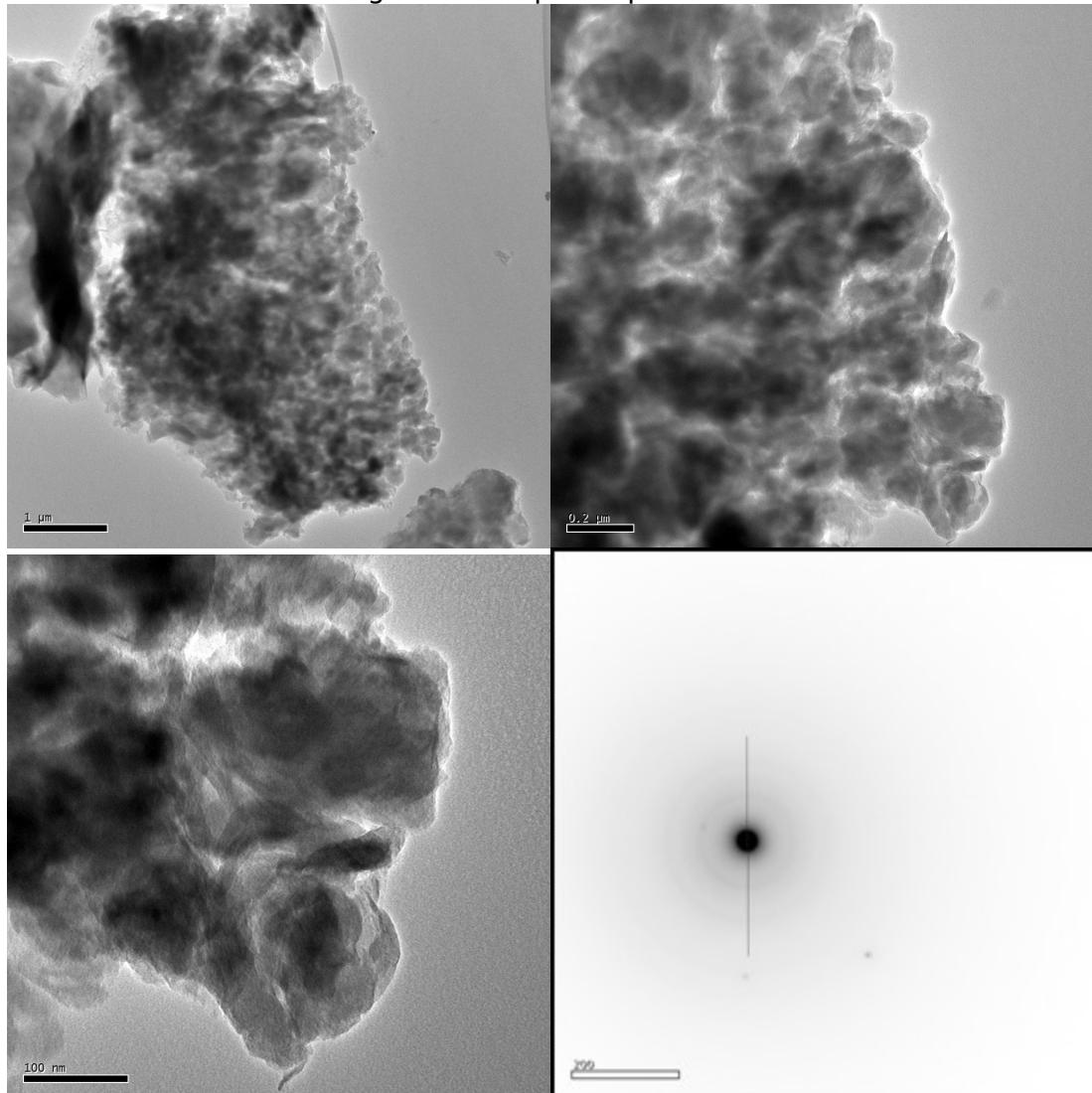


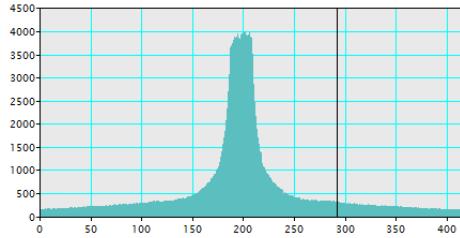
Amorphous particles in Bulong nontronite

1. SAED and TEM images of nontronite particle

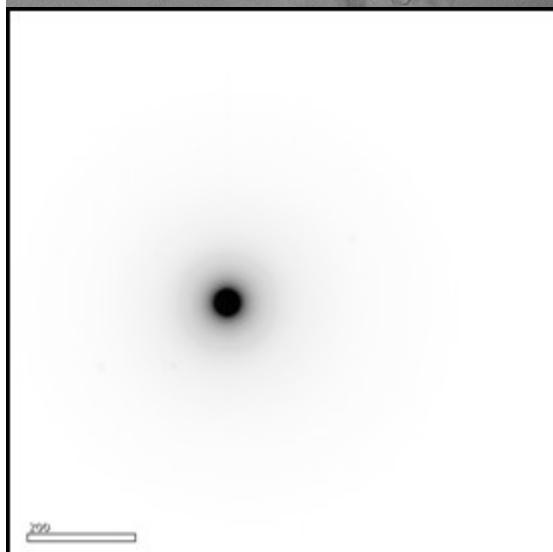
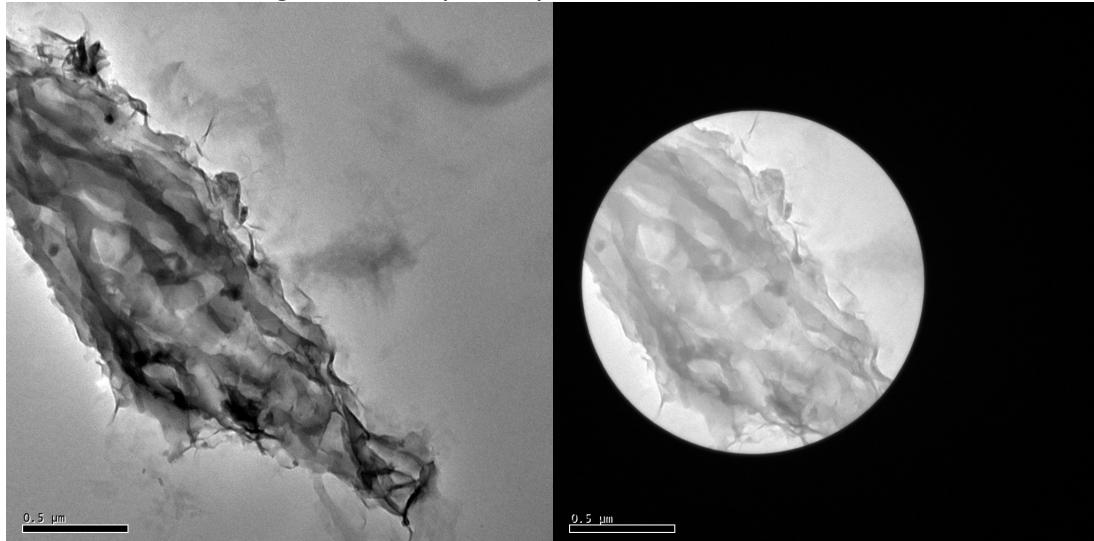


2. SAED and TEM images of amorphous particle 1

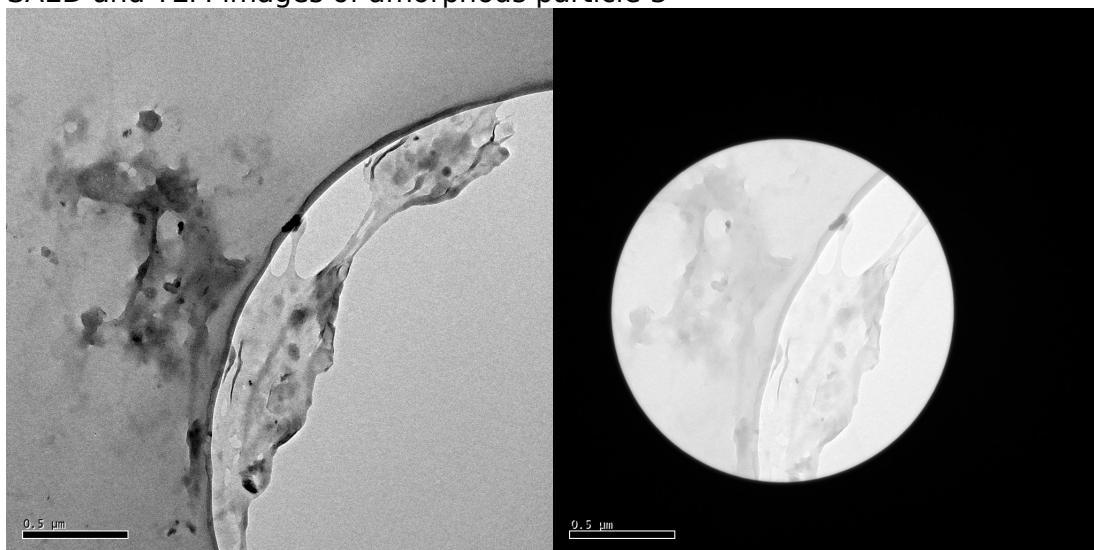


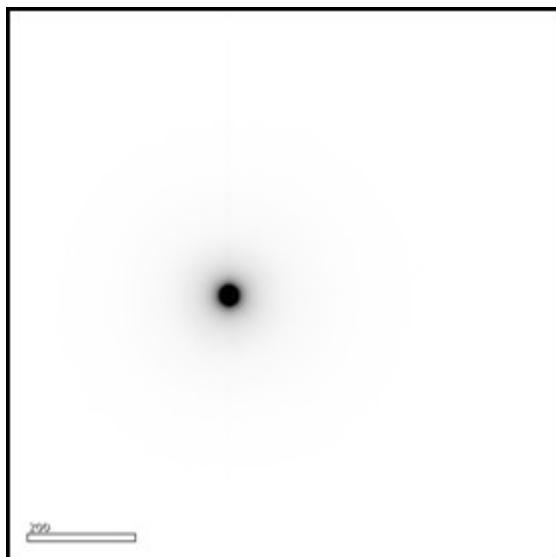


SAED and TEM images of amorphous particle 2

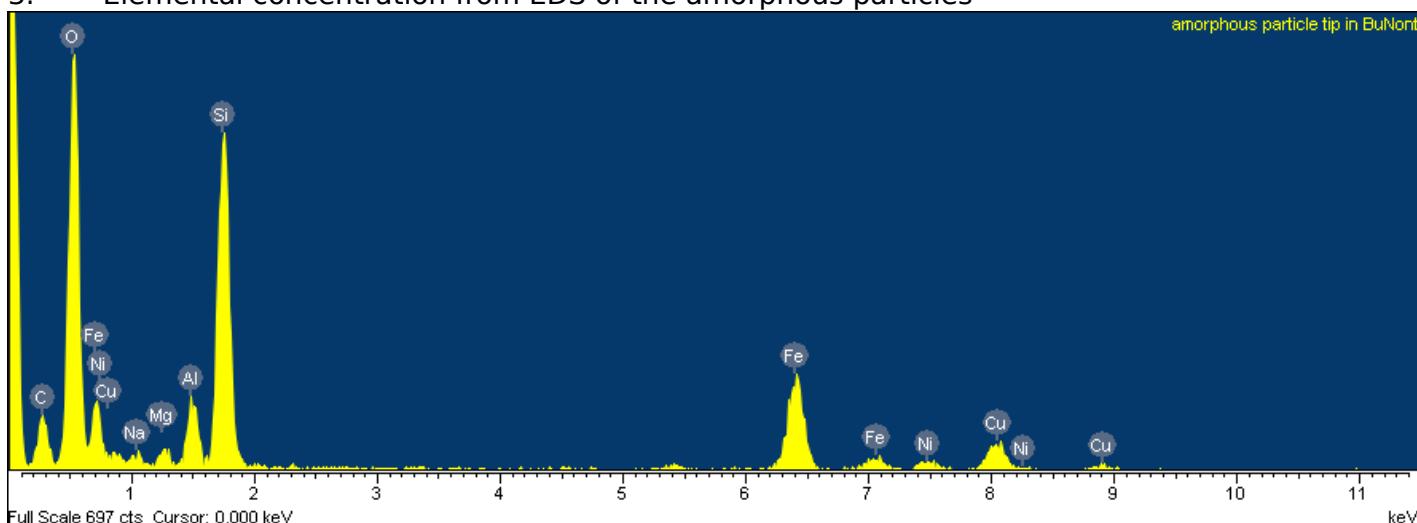


SAED and TEM images of amorphous particle 3

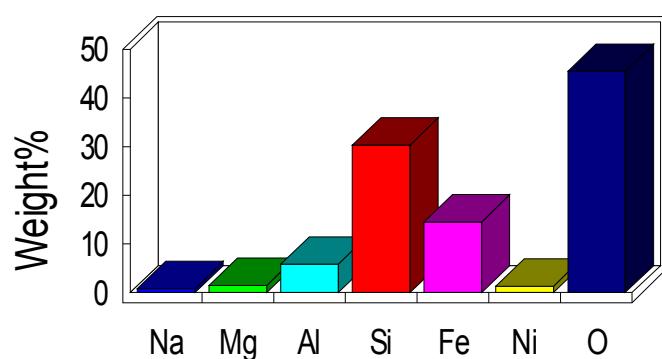




3. Elemental concentration from EDS of the amorphous particles



Quantitative results



Spectrum processing :

No peaks omitted

Quantitation method : Cliff Lorimer thin ratio section.

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 2

Standardless

Element	Weight %	Atomic %	Compd %	Formula
Na K	0.93	0.90	1.26	Na ₂ O
Mg K	1.46	1.33	2.42	MgO
Al K	5.82	4.76	11.00	Al ₂ O ₃
Si K	30.32	23.85	64.87	SiO ₂
Fe K	14.52	5.74	18.67	FeO
Ni K	1.41	0.53	1.79	NiO
O	45.55	62.89		
Totals	100.00			

Compare of elemental concentration between nontronite particle and amorphous particle:

	Ni	Fe	Na	Al	Si	Mg	Ca	Co	O (stoichi)	sum
BuNont	1.982	17.9	0.773	5.44	26.3	2.10	0.234	0.051	44.743	99.379
amorphous	1.41	14.52	0.93	5.82	30.32	1.46			45.55	100.010
webmineral		22.52	1.39	5.44	16.99				51.62	97.960
NAu-1		25.138	0.022	4.313	24.009	0.115	2.551		43.101	99.249

Conclusion: Comparing to nontronite standards (NAu-1 or webmineral data), the amorphous particles is low in Fe and high in Si.