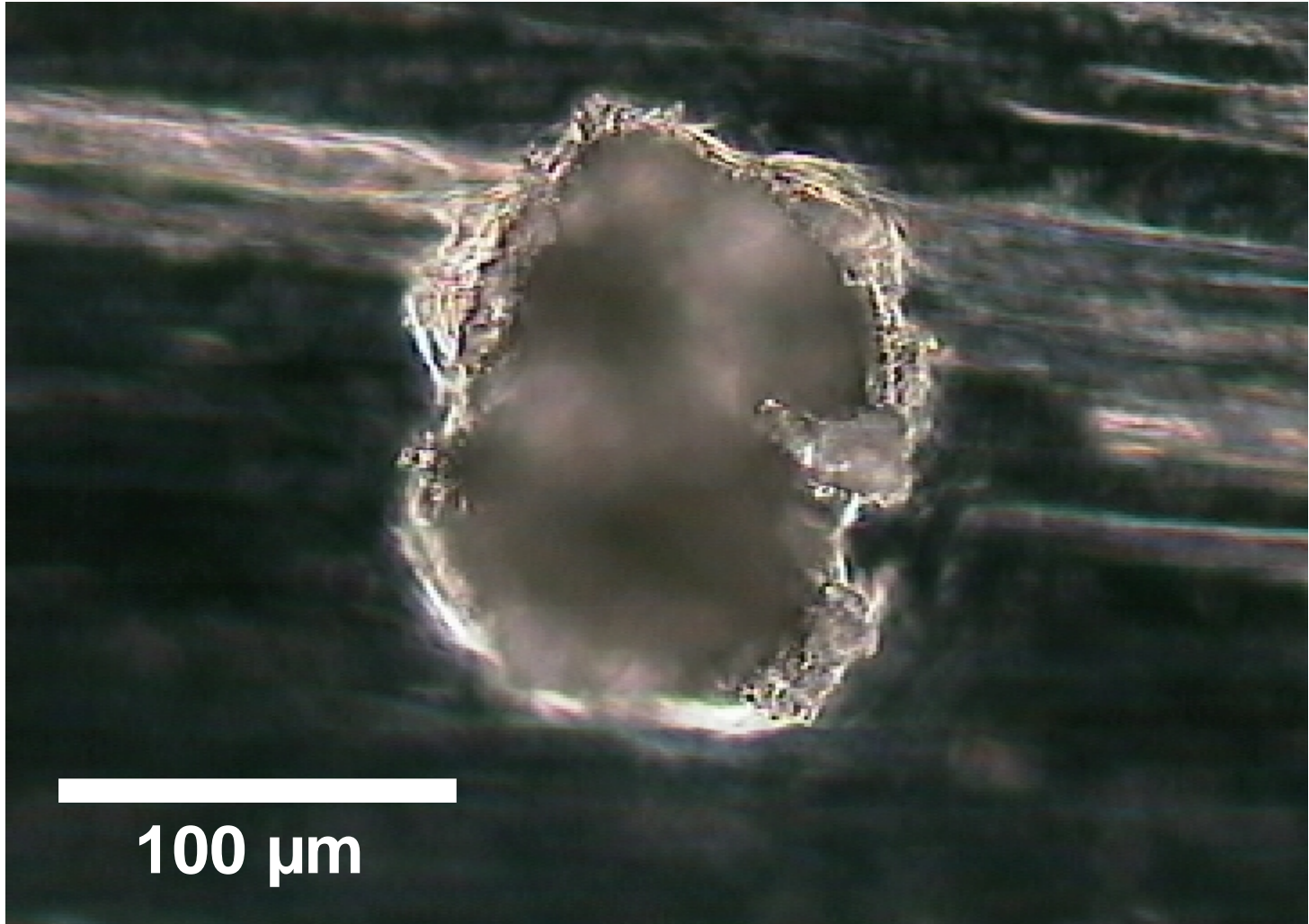


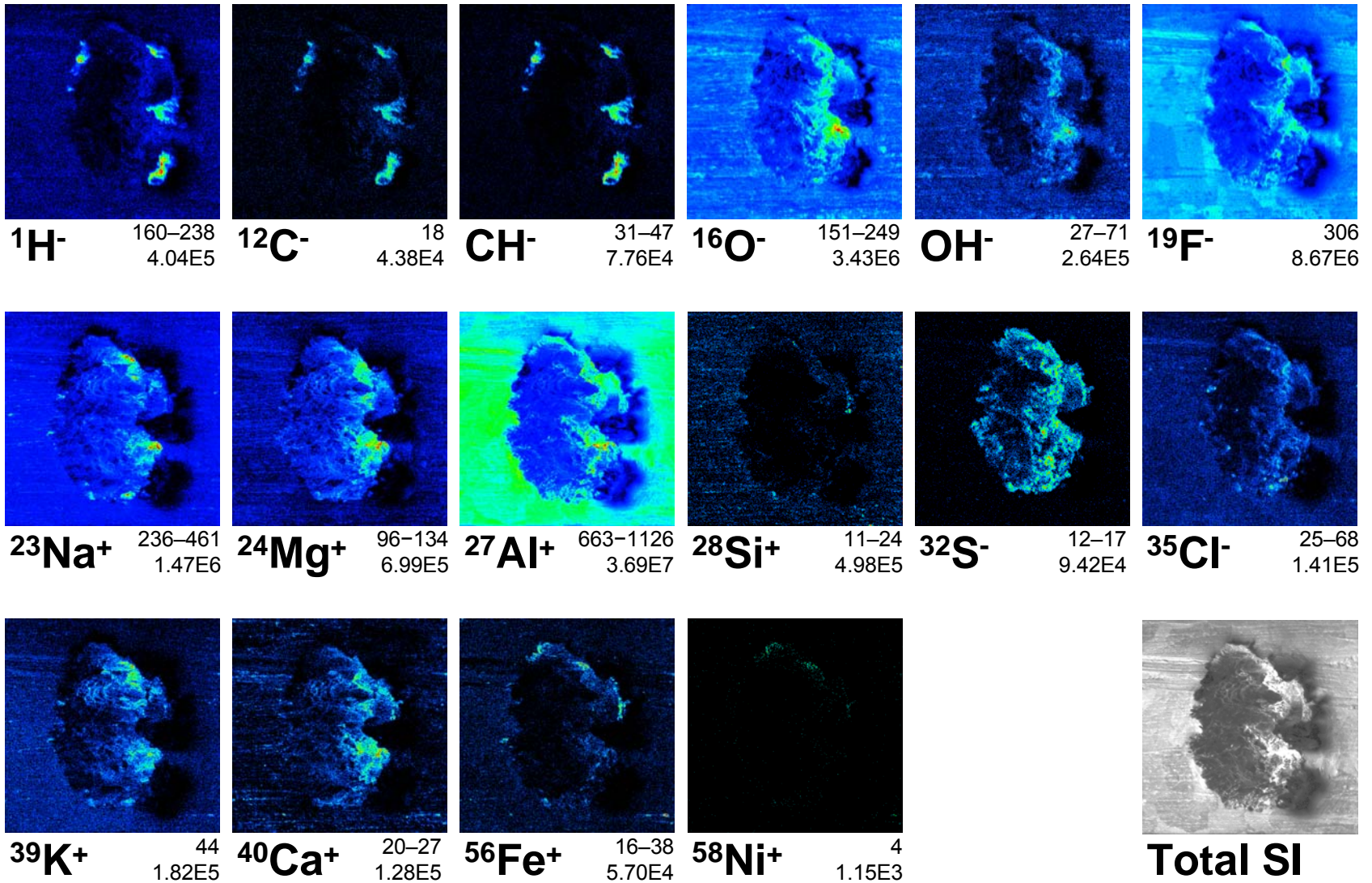
Sample C2029W, 1

- “Twin”-crater.
- Diameter $\sim 145 \mu\text{m} \times 100 \mu\text{m}$.
- Crater was analyzed in two orientations (second measurement after 180° rotation) because of large topographic effects.
- Plots show atomic element abundances relative to silicon and normalized to CI meteoritic abundances.
- Tables show atomic element abundances relative to silicon (not normalized to CI).
- All data are shown
 - without blank correction
 - with blank correction assuming Al/Si being chondritic (CI)
 - with blank correction attributing all Al to the foil
- Blank composition was determined from regions surrounding the crater.

Large crater on C2029W,1



C2029W,1 after Ar-sputtering

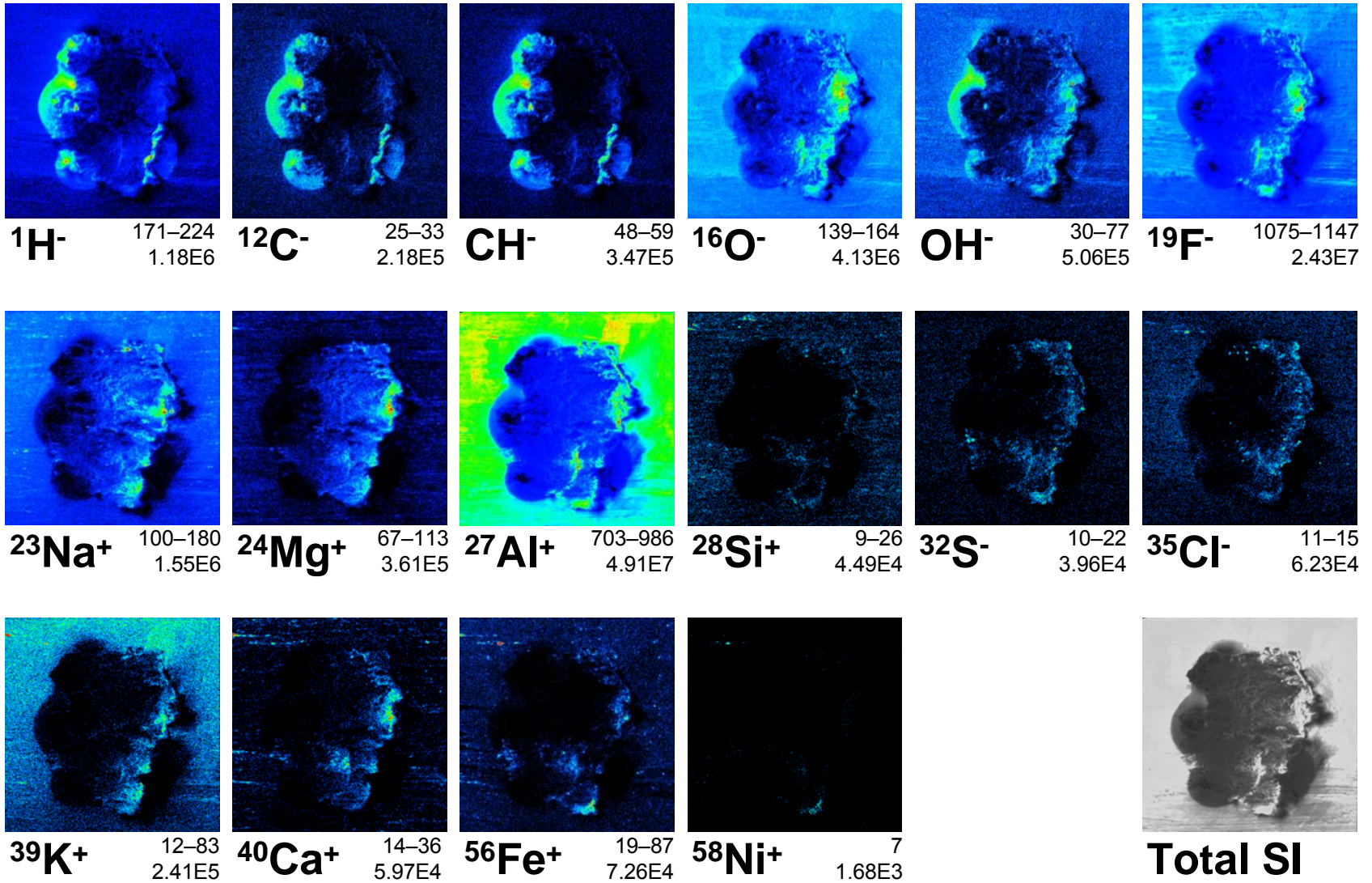


50 scans
501x501 pixels
32 shots/(pixelxscan)



199x199 μm^2

C2029W,1 after Ar-sputtering, sample rotated

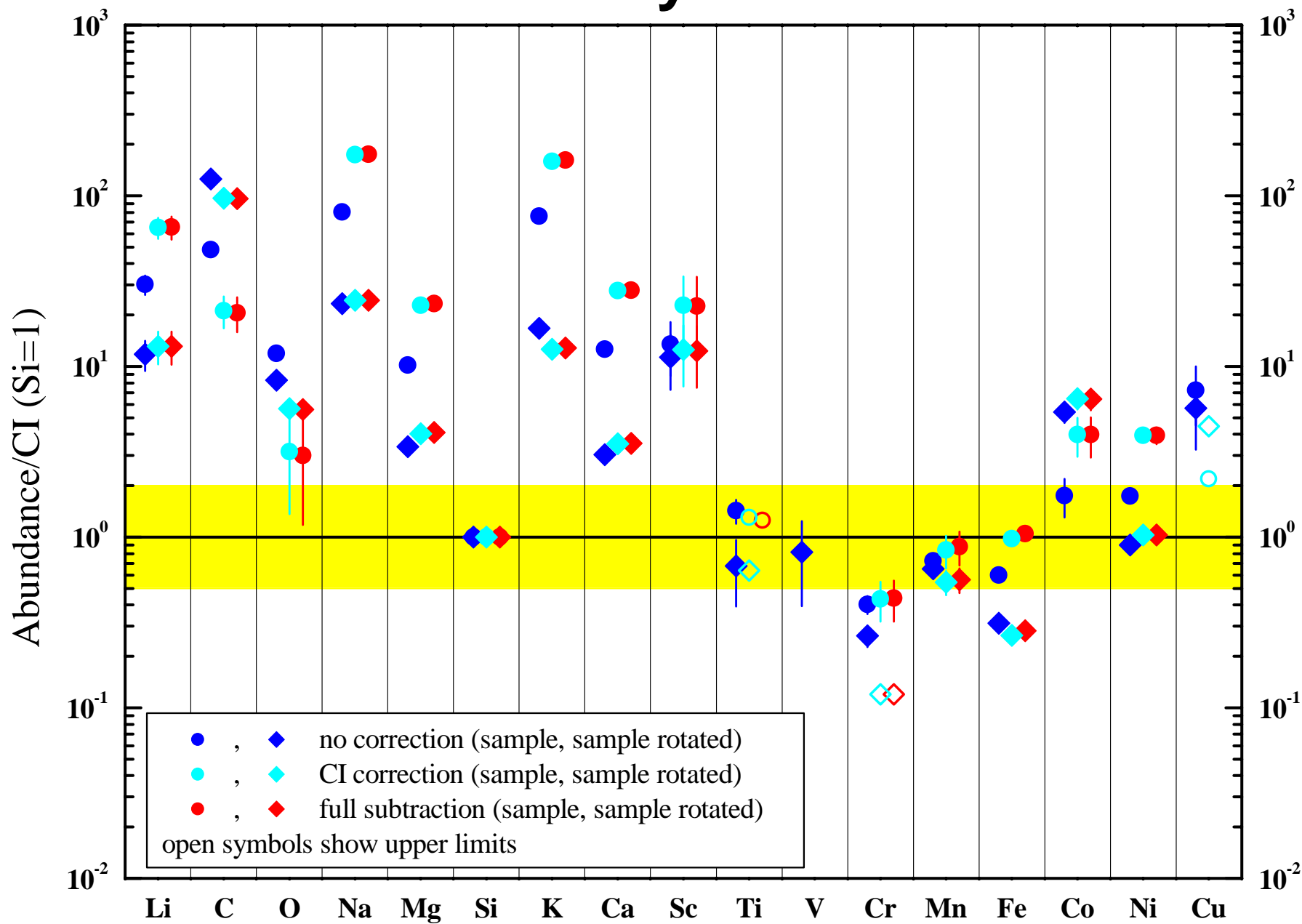


50 scans
503x503 pixels
32 shots/(pixelxscan)



199x199 μm^2

Bulk chemistry of crater rim



Bulk chemistry of crater rim

C2029W,1

	no correction		Cl correction		full subtraction	
	Abd./Si	Error	Abd./Si	Error	Abd./Si	Error
Li	0.0017	0.0002	0.0037	0.0005	0.0037	0.0006
C	37	1	16	3	16	4
O	91	6	24	14	23	14
Na	4.60	0.01	10.00	0.02	10.0	0.7
Mg	10.68	0.02	24.0	0.1	24.5	1.7
Si	1.00	0.03	1.00	0.07	1.00	0.10
K	0.282	0.002	0.588	0.004	0.60	0.04
Ca	0.768	0.004	1.70	0.01	1.7	0.1
Sc	0.0005	0.0002	0.0008	0.0004	0.0008	0.0004
Ti	0.0035	0.0005	<0.003		<0.003	
V						
Cr	0.005	0.001	0.006	0.002	0.006	0.002
Mn	0.007	0.001	0.008	0.002	0.008	0.002
Fe	0.52	0.01	0.84	0.03	0.90	0.07
Co	0.004	0.001	0.009	0.002	0.009	0.002
Ni	0.09	0.01	0.19	0.02	0.20	0.02
Cu	0.004	0.001	<0.001			

C2029W,1 (rotated)

	no correction		Cl correction		full subtraction	
	Abd./Si	Error	Abd./Si	Error	Abd./Si	Error
Li	0.0007	0.0001	0.0007	0.0002	0.0007	0.0002
C	95	2	73	3	73	4
O	63	5	43	6	43	6
Na	1.342	0.004	1.400	0.005	1.40	0.05
Mg	3.57	0.01	4.24	0.02	4.3	0.2
Si	1.00	0.03	1.00	0.04	1.00	0.05
K	0.062	0.001	0.047	0.001	0.048	0.002
Ca	0.185	0.003	0.215	0.003	0.215	0.008
Sc	0.0004	0.0001	0.0004	0.0002	0.0004	0.0002
Ti	0.0016	0.0007	<0.0015			
V	0.0002	0.0001				
Cr	0.0036	0.0005	<0.0016		<0.0016	
Mn	0.0061	0.0007	0.0051	0.0008	0.0052	0.0009
Fe	0.27	0.01	0.23	0.01	0.24	0.01
Co	0.012	0.002	0.015	0.002	0.015	0.002
Ni	0.044	0.005	0.051	0.006	0.051	0.006
Cu	0.003	0.001	<0.002			