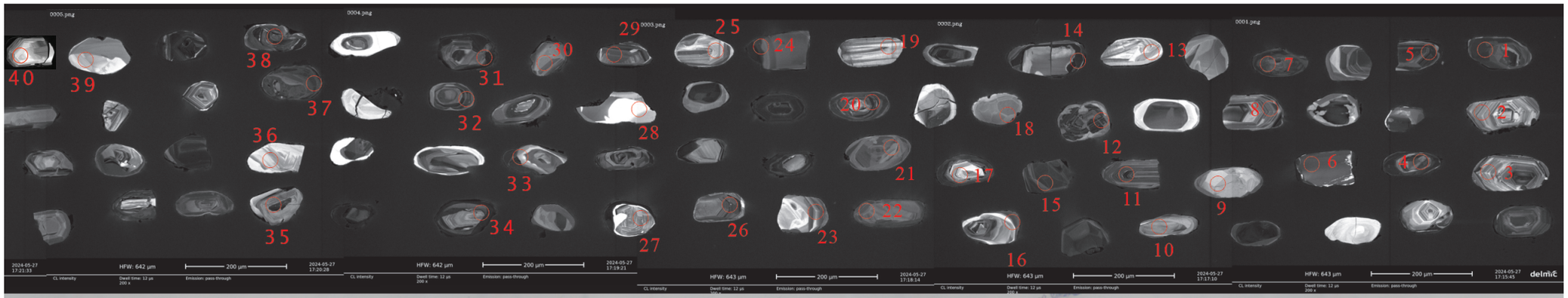
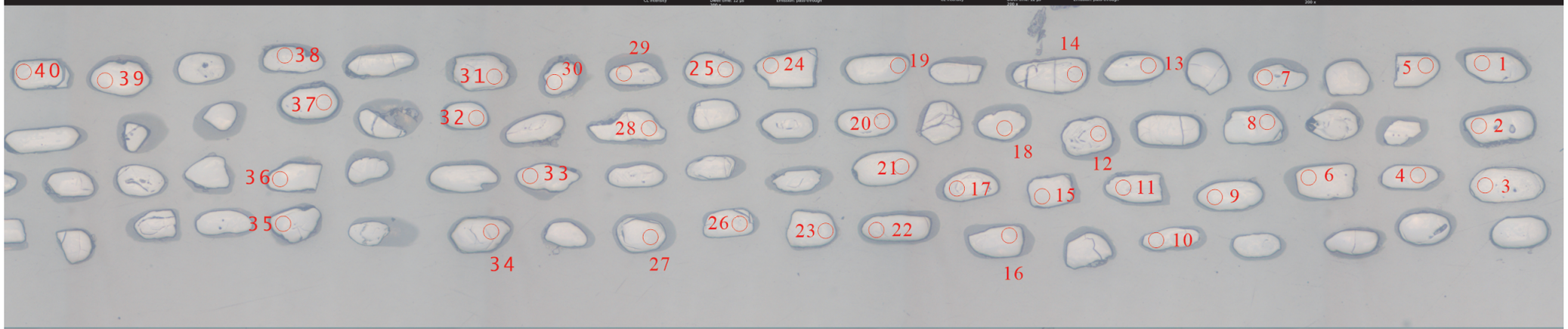
Figure S2. A) Cathodoluminescence (CL), B) transmitted-light optical, and C) reflected-light optical images of zircon grains obtained from sample Ti-41 (reworked volcanic tuff collected from the Lower Siliciclastic–Carbonate Unit; equivalent of the Ifrane n'Taghatine) showing their internal texture, spots (red circles), and (D) apparent ages in Ma (1 error).

Sample Ti-41

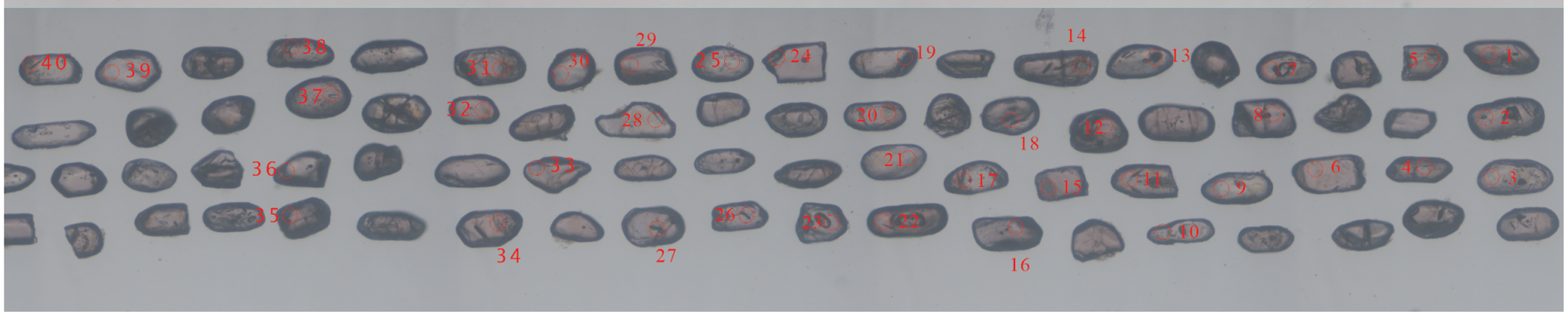
A



B



C



D

Spot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Age (Ma)	2052	2025	2091	2478	2291	2006	1961	2016	2121	2013	2009	2429	2102	2240	2250	1972	2061	1917	1981	2092
1 sigma	25	26	26	17	25	28	21	24	24	23	24	25	31	23	22	26	30	33	33	25
Spot	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Age (Ma)	2150	2024	2085	2025	2180	2076	2324	2009	2013	2061	2198	1952	2002	2007	2120	1857	1933	2047	1926	1931
1 sigma	26	26	32	31	30	26	27	39	28	33	26	26	25	26	28	33	26	26	36	37