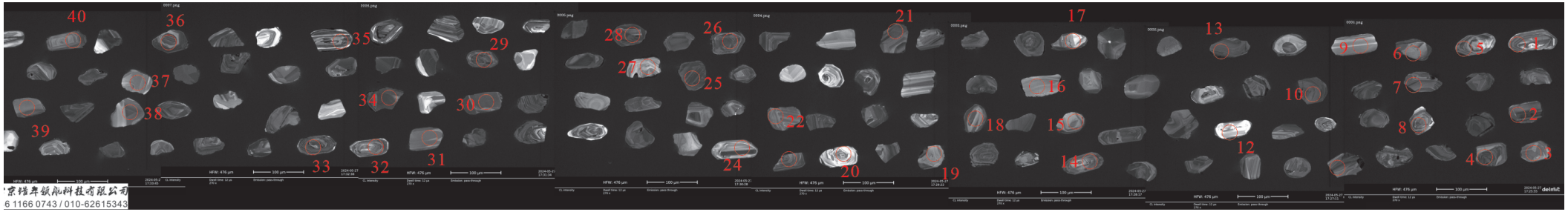
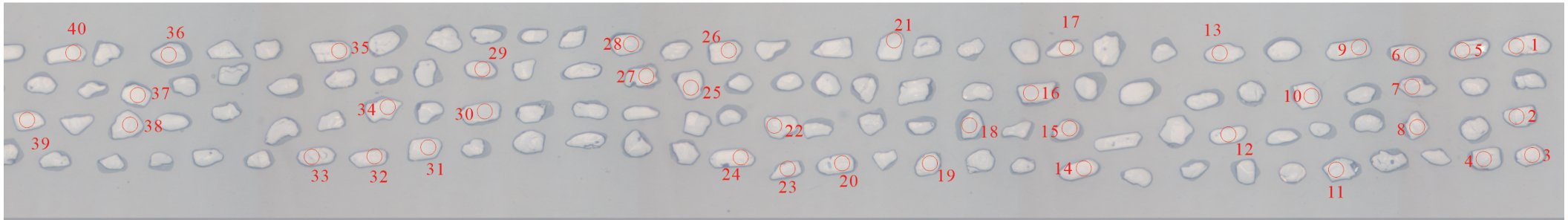
Figure S5. A) Cathodoluminescence (CL), B) transmitted-light optical, and C) reflected-light optical images of zircon grains obtained from sample C-75 (Medium to fine-grained siltstone collected from the top of the Upper Siliciclastic–Carbonate Unit; equivalent of the Tamgarda Formation of the Tizi n'Taghatine Group) showing their internal texture, spots (red circles), and (D) apparent ages in Ma (1 error).

Sample C 75

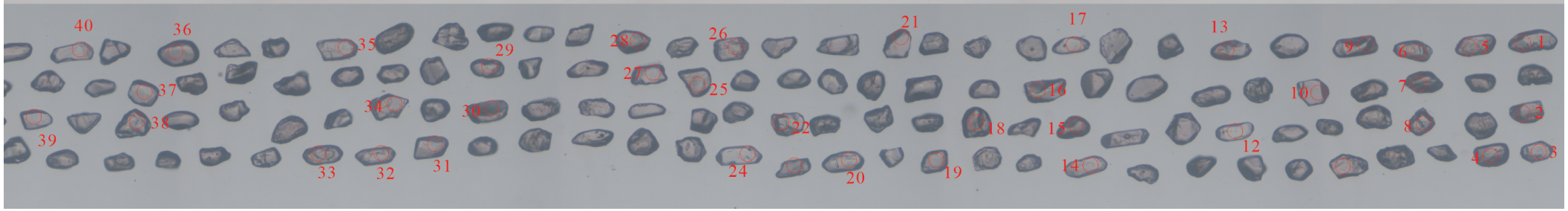
A



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)	2092	2361	2192	2389	1985	2451	2457	2106	2478	2483	2472	2529	2455	2076	2494	2478	2039	2480	2498	2159
1 sigma	28	23	26	27	31	23	26	29	30	32	28	32	26	24	31	28	34	24	29	34
Spot	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Age (Ma)	2006	2487	1885	2061	1988	2010	3017	2020	2066	2531	2061	2753	2561	2617	2861	1987	2481	2167	2420	1924
1 sigma	29	27	28	32	27	30	27	26	29	32	31	25	23	23	26	28	24	25	26	30