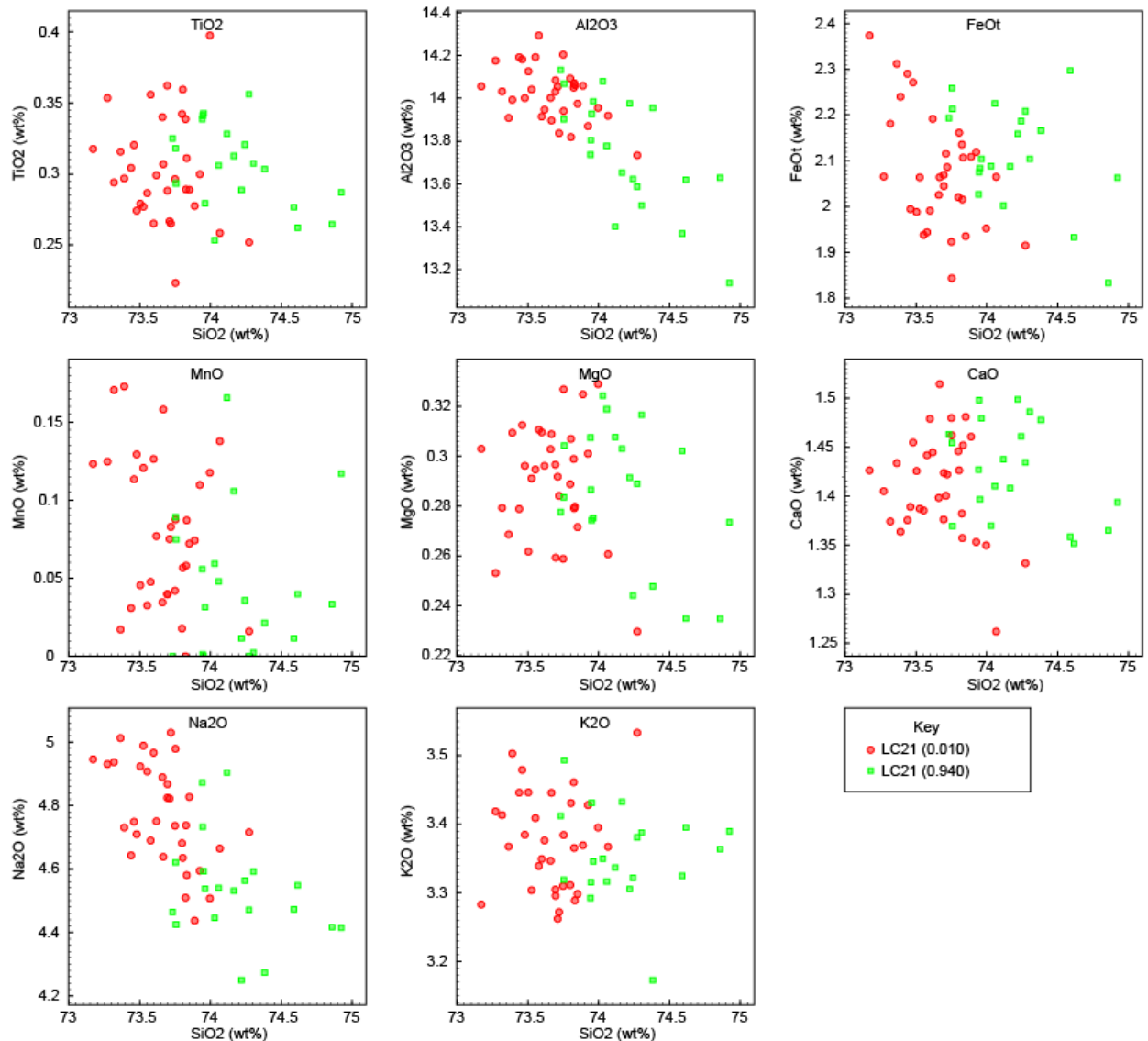
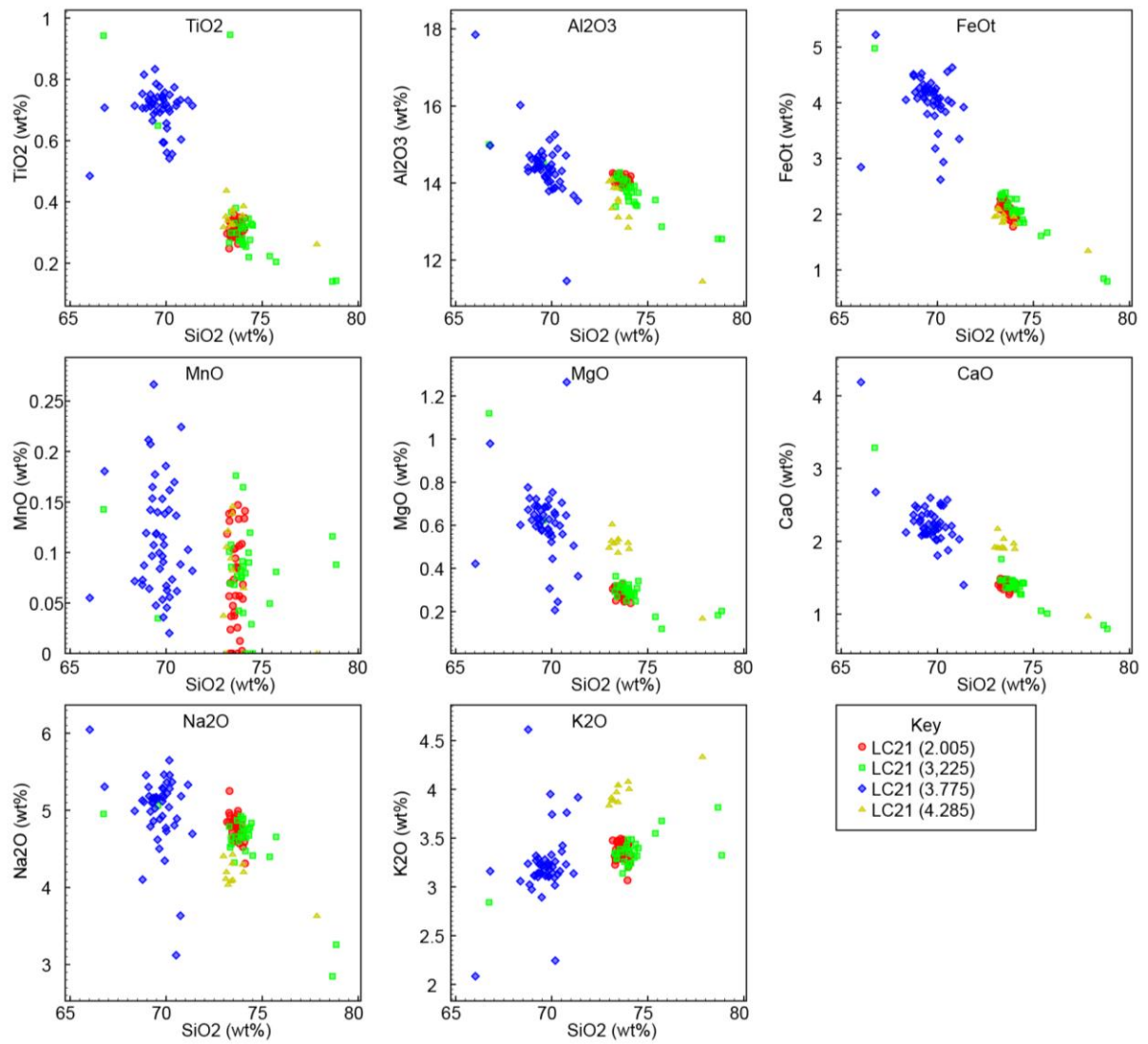


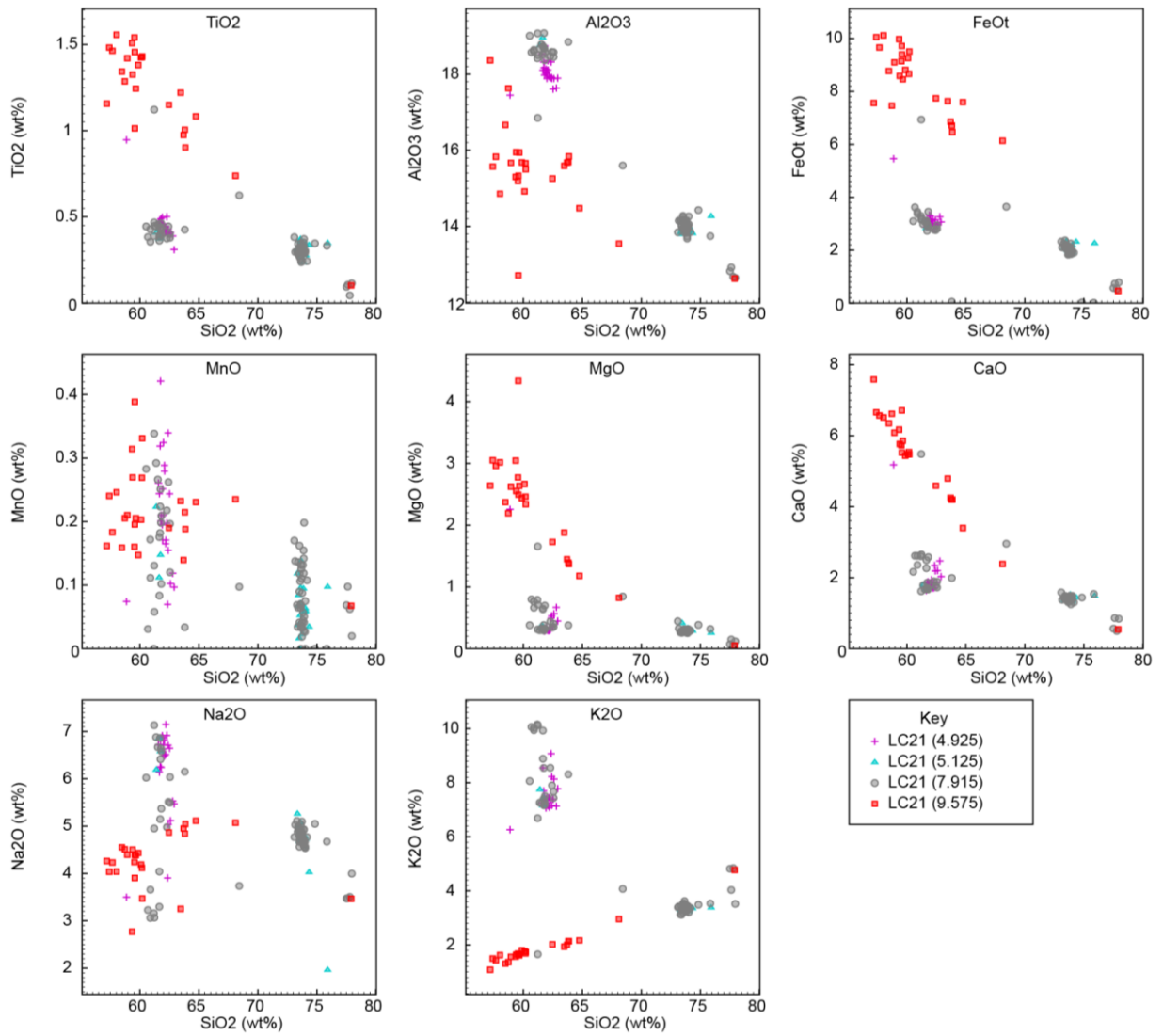
### Supplementary Figure 1- Major element analyses of all tephra shards analysed from core LC21



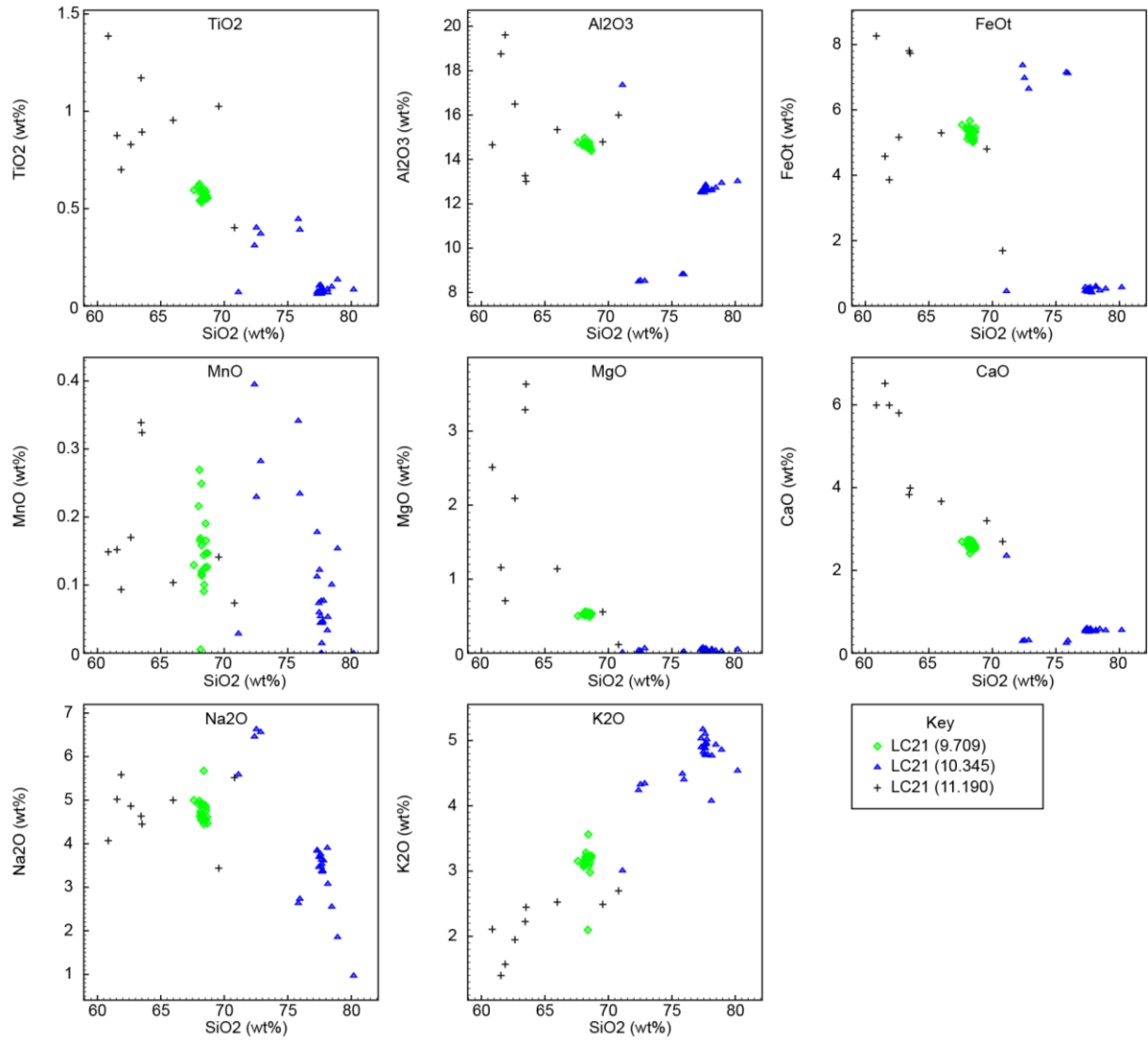
**Supplementary Figure 1a** Major element analyses of LC21 (0.940) and LC21 (0.010) to test for geochemical differences between the two samples, and thus to identify reworking of the visible tephra LC21 (0.940).



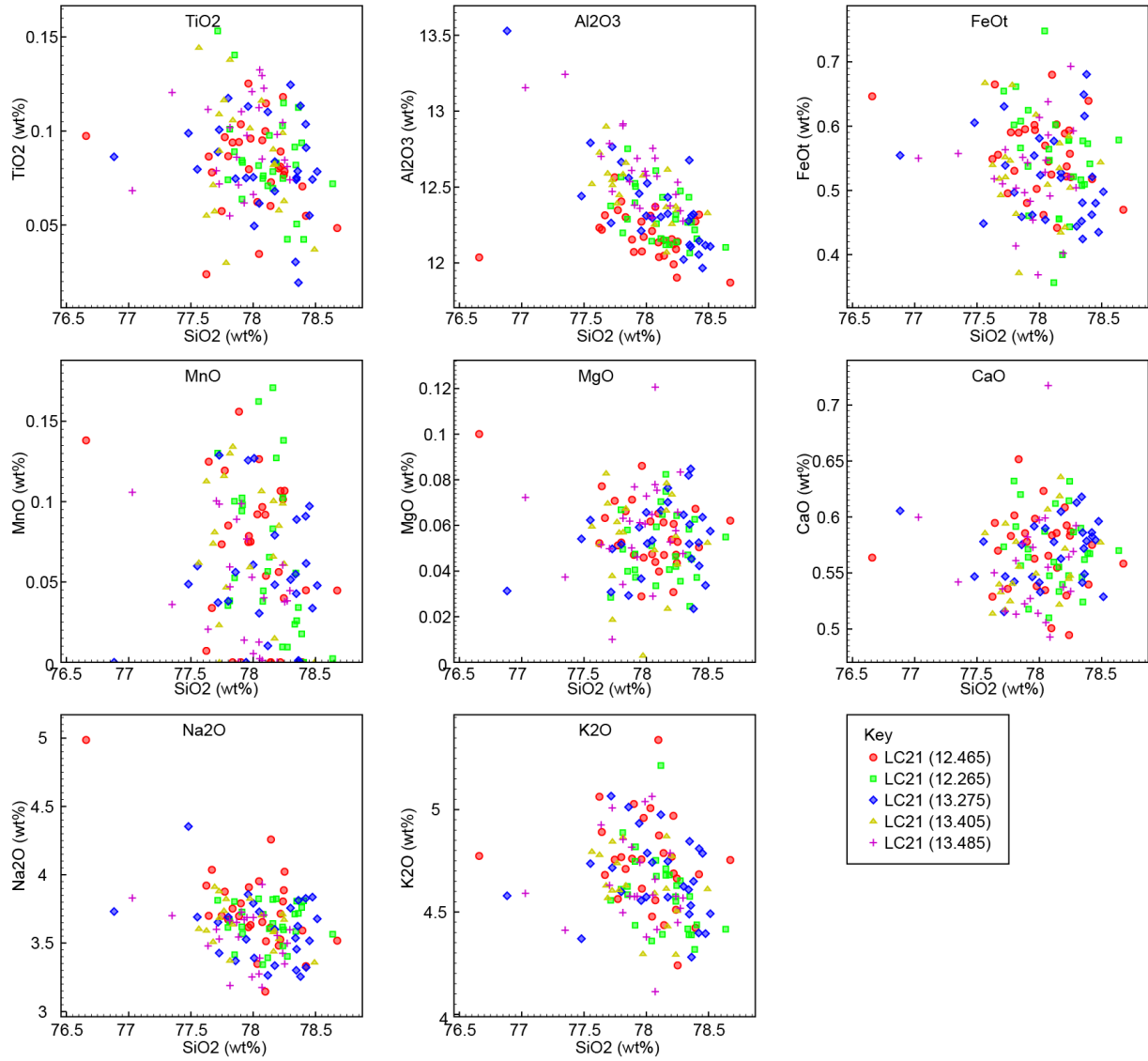
**Supplementary Figure 1b** All major element analyses of shards found within sample LC21 (2.005), LC21 (3.225), LC21 (3.775) and LC21 (4.285).



**Supplementary Figure 1c** Major element analyses of samples from LC21 (4.925), (5.145), (7.915) and (9.575).



**Supplementary Figure 1d** Major element analyses of tephra shards from samples LC21 (9.709), (10.345) and (11.190).



**Supplementary Figure 1e** Major element analyses for samples LC21 (12.465), (12.265), (13.275), (13.405), (13.485).