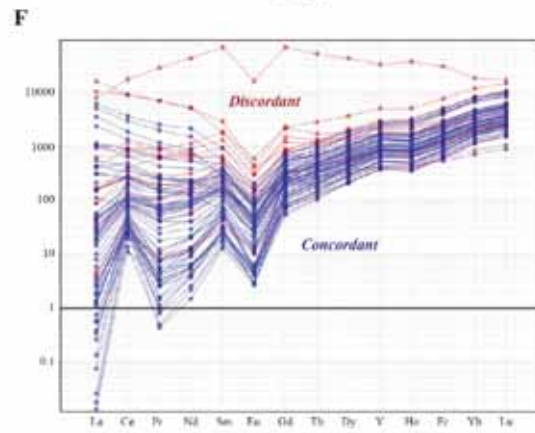
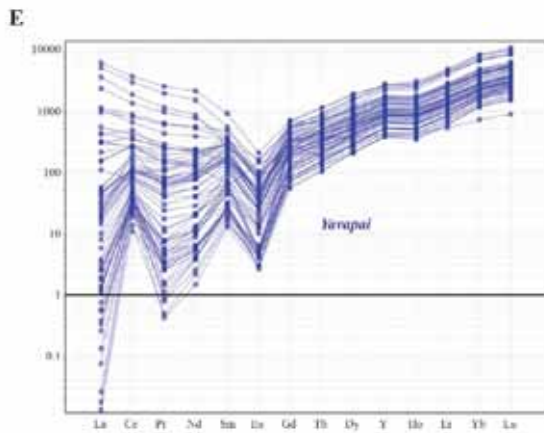
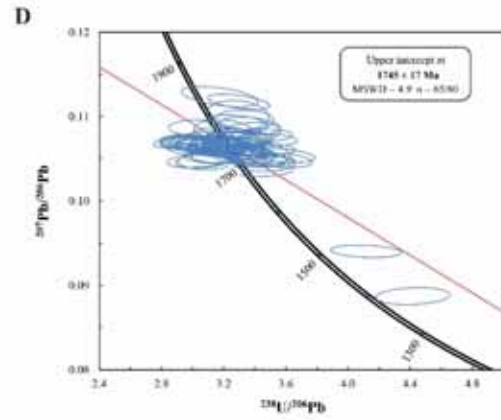
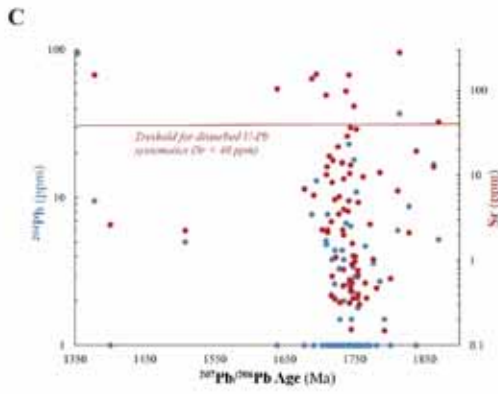
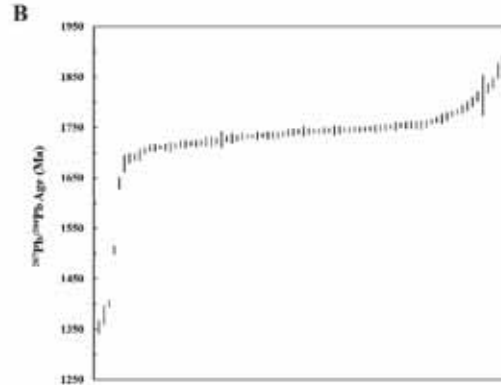
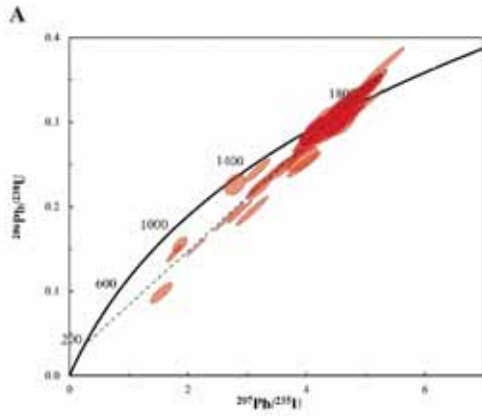


SUPPLEMENTARY FILE #2

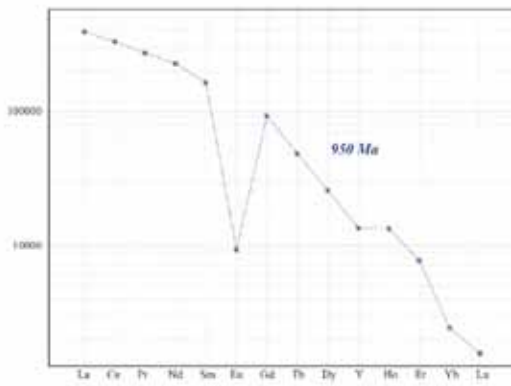
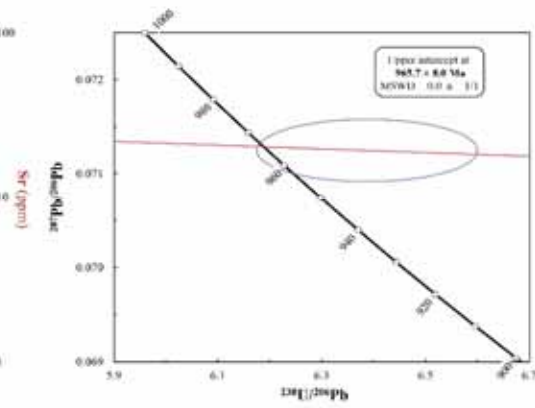
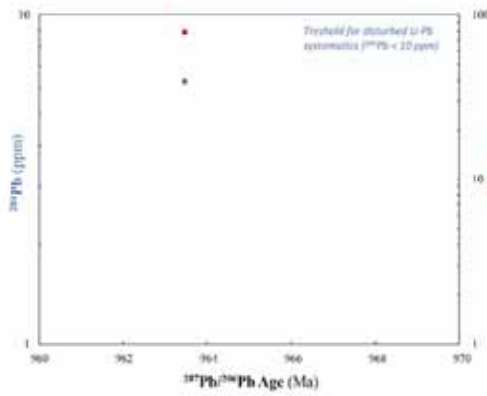
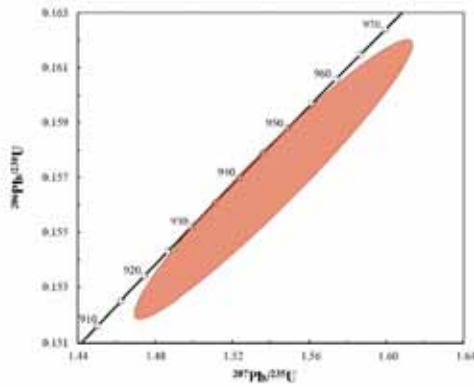
For each mineral (i.e., monazite, xenotime, zircon) analyzed per pegmatite:

- A. Wetherill concordia diagram. All data shown.
- B. $^{207}\text{Pb}/^{206}\text{Pb}$ ages showing 2σ error bars. All data shown.
- C. Trace elements (i.e., ^{204}Pb , Sr, La) with threshold for disturbed U-Pb systematics
- D. Tera-Wasserburg concordia diagram. Clustered concordant data only.
- E. Chondrite-normalized (McDonough & Sun 1995) REE spider diagram colour-coded by age (i.e., Archean, Yavapai, Chieflakian, Grenvillian). Concordant data only.
- F. Chondrite-normalized (McDonough & Sun 1995) REE spider diagram for concordant *versus* discordant data. All data shown.

Estaire granite

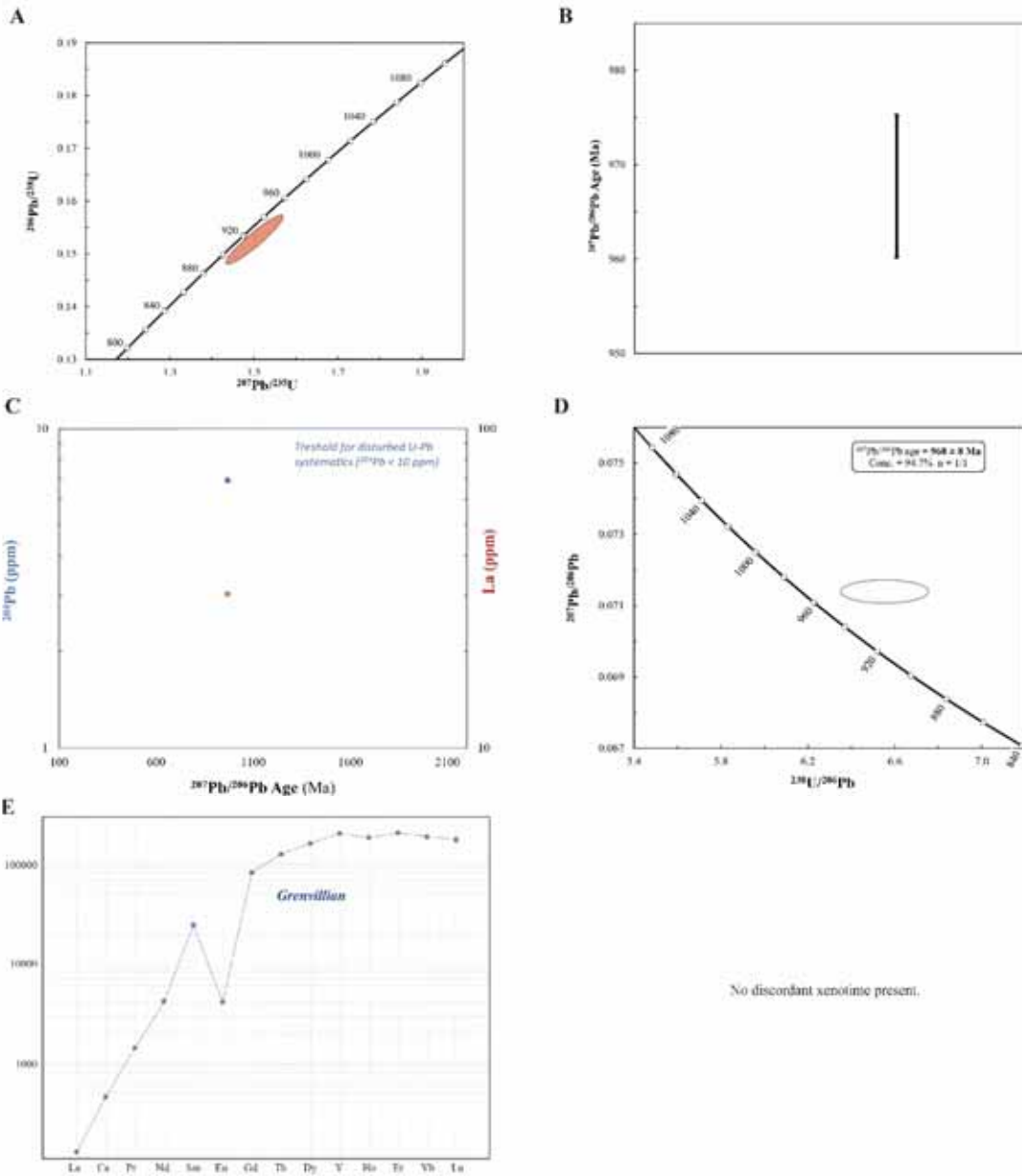


Pegmatite 1 - Monazite



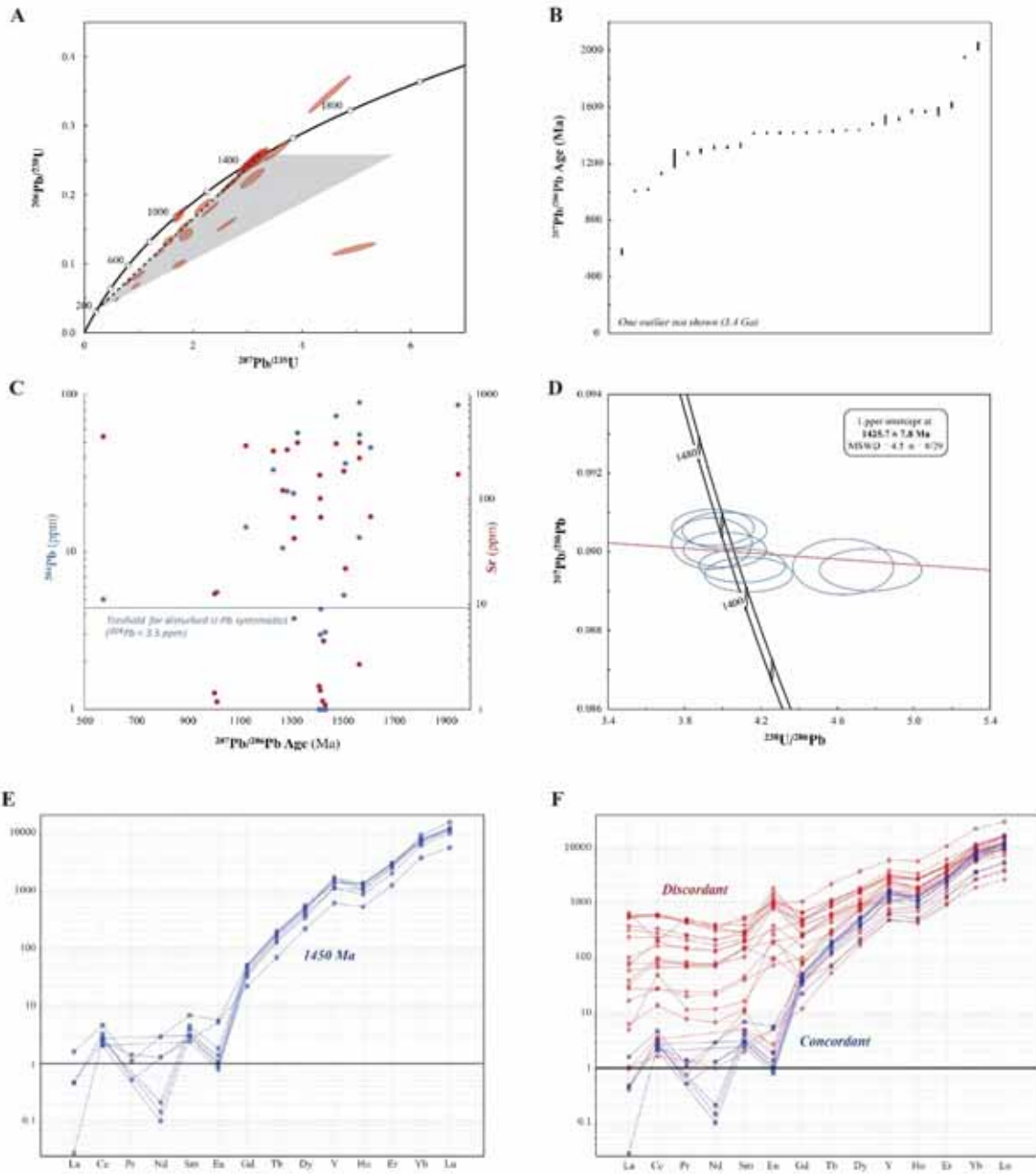
No discordant monazite present.

Pegmatite 1 - Xenotime

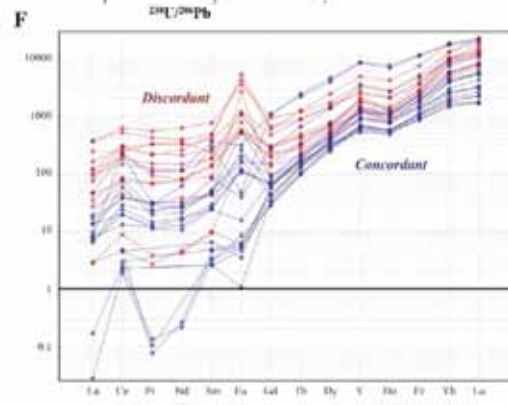
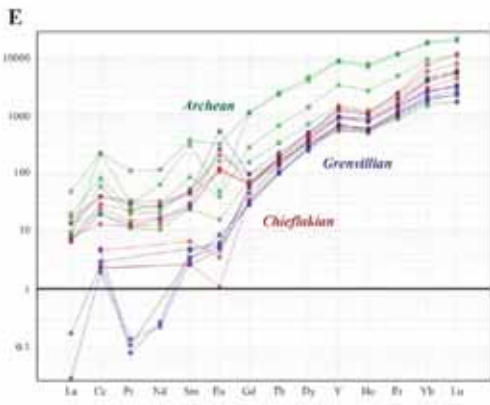
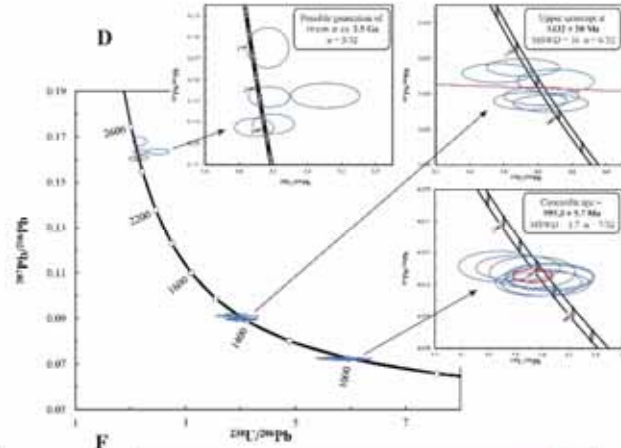
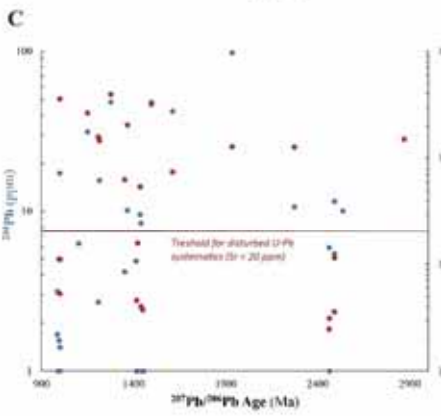
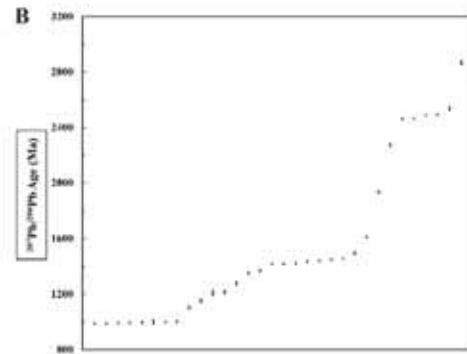
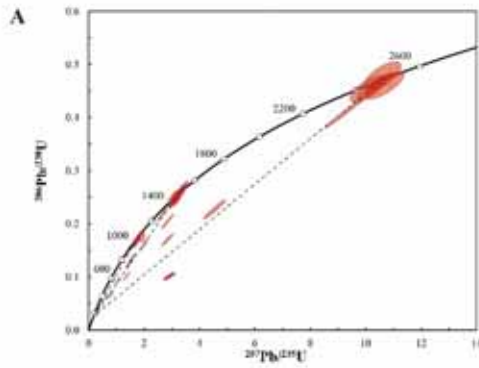


No discordant xenotime present.

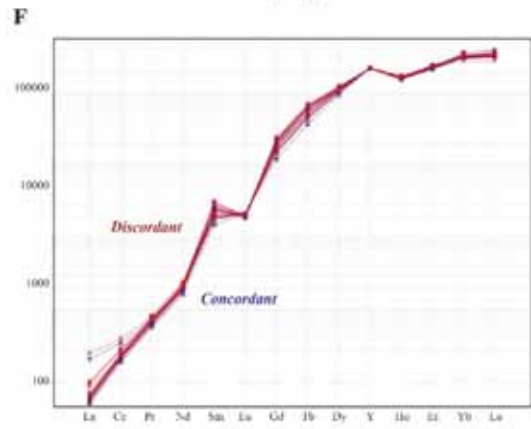
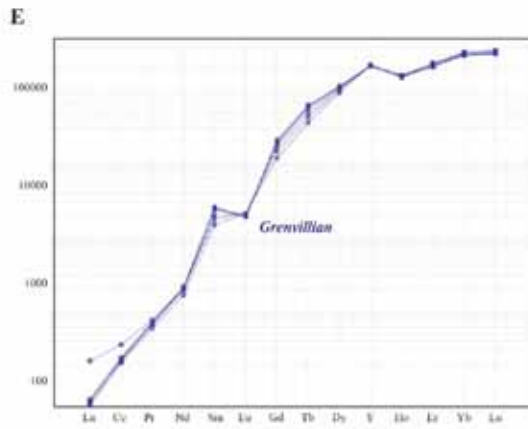
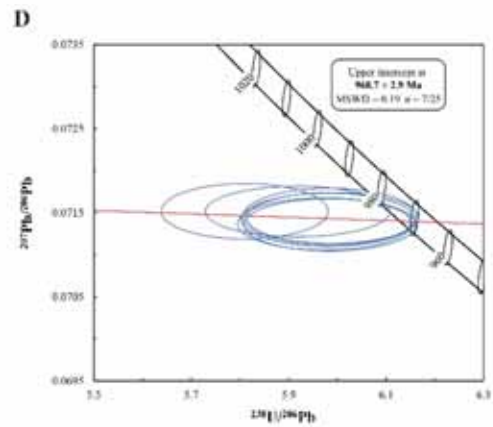
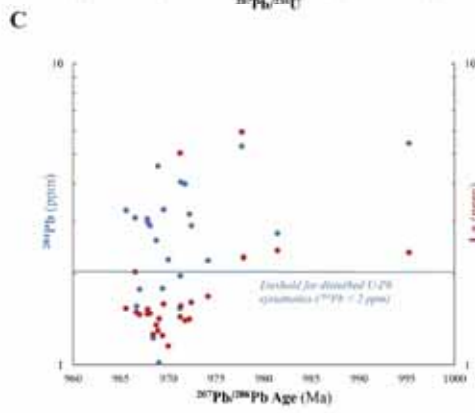
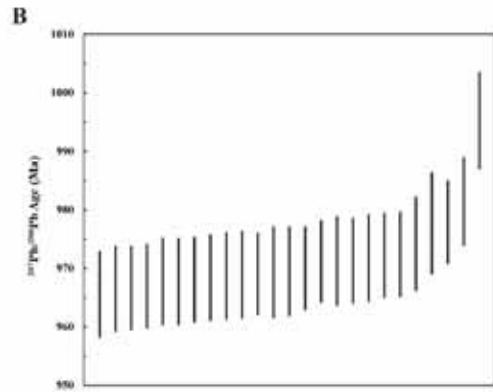
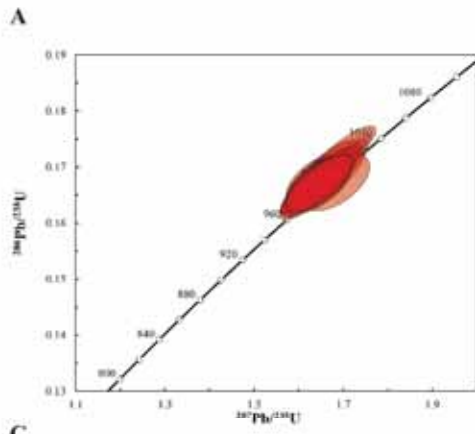
Pegmatite 1 - Zircon



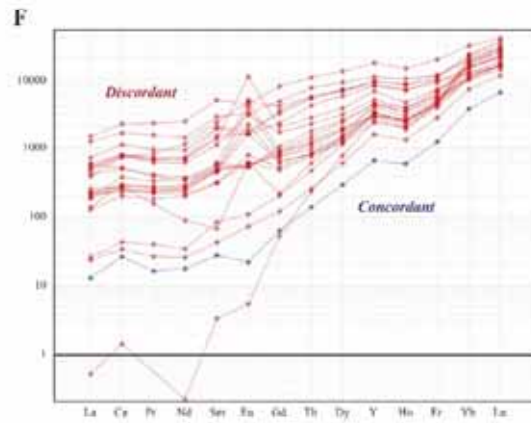
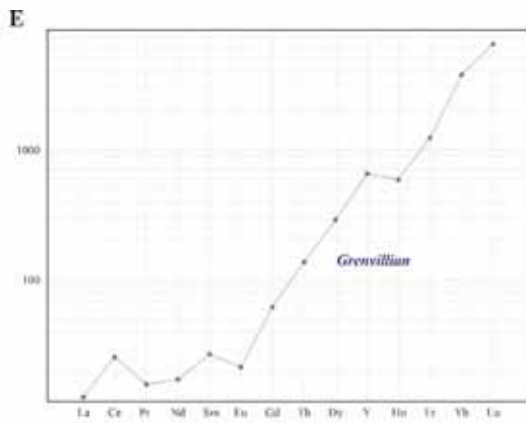
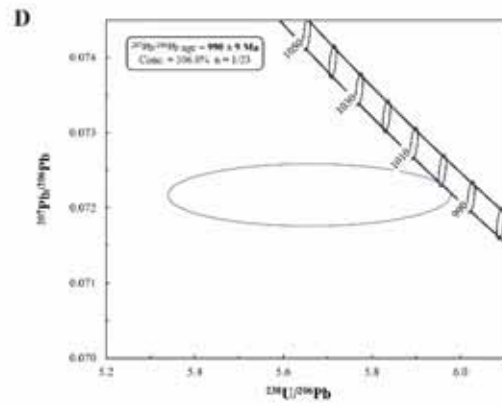
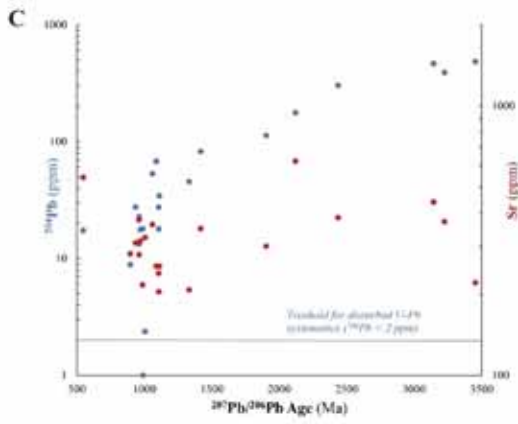
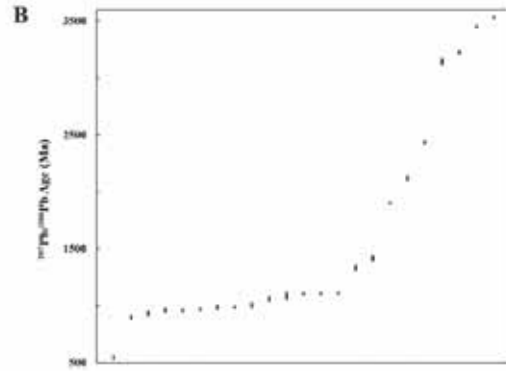
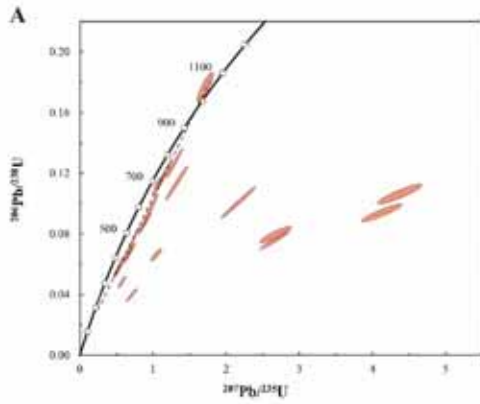
Pegmatite 3 – Zircon



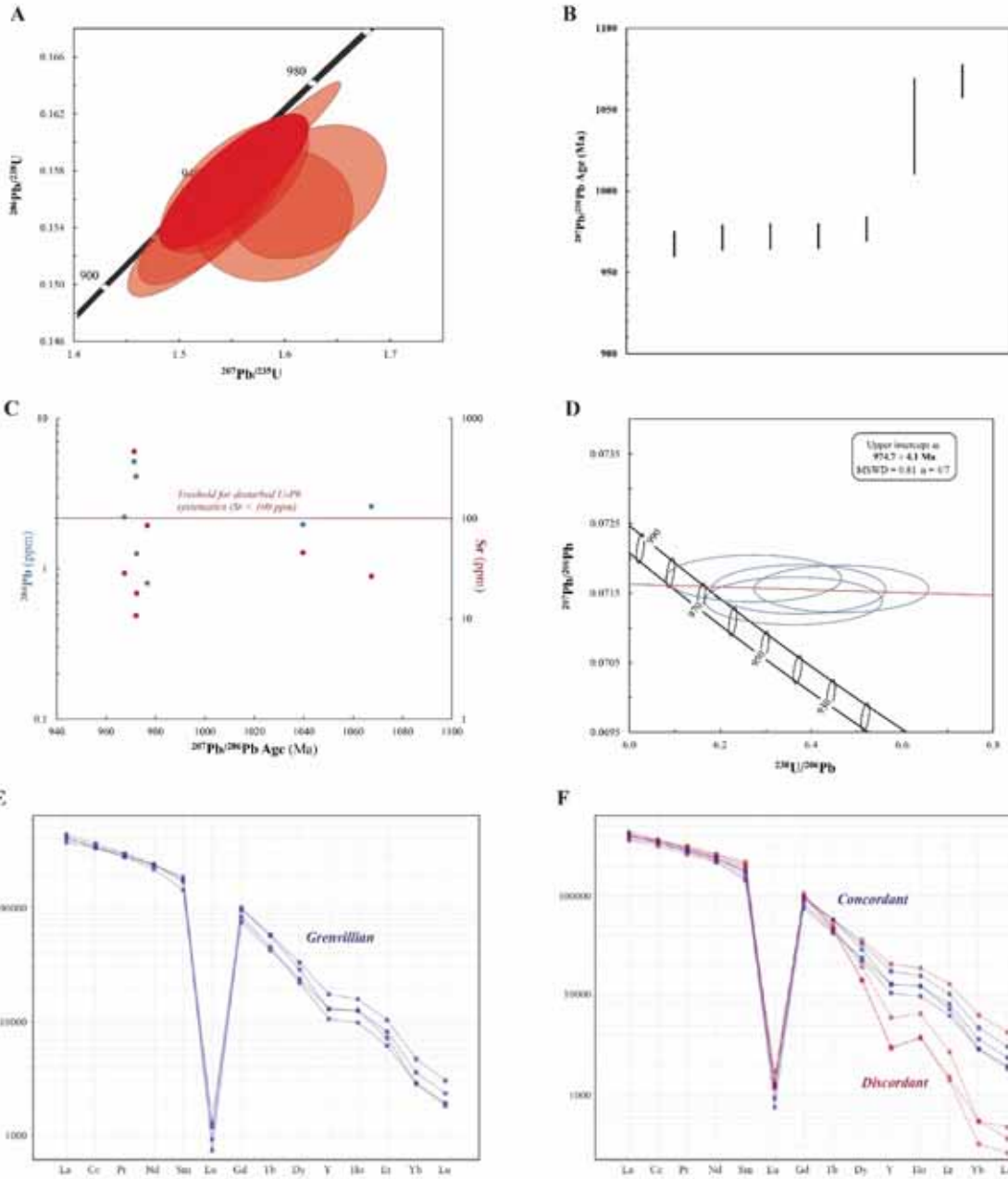
Pegmatite 4 – Xenotime



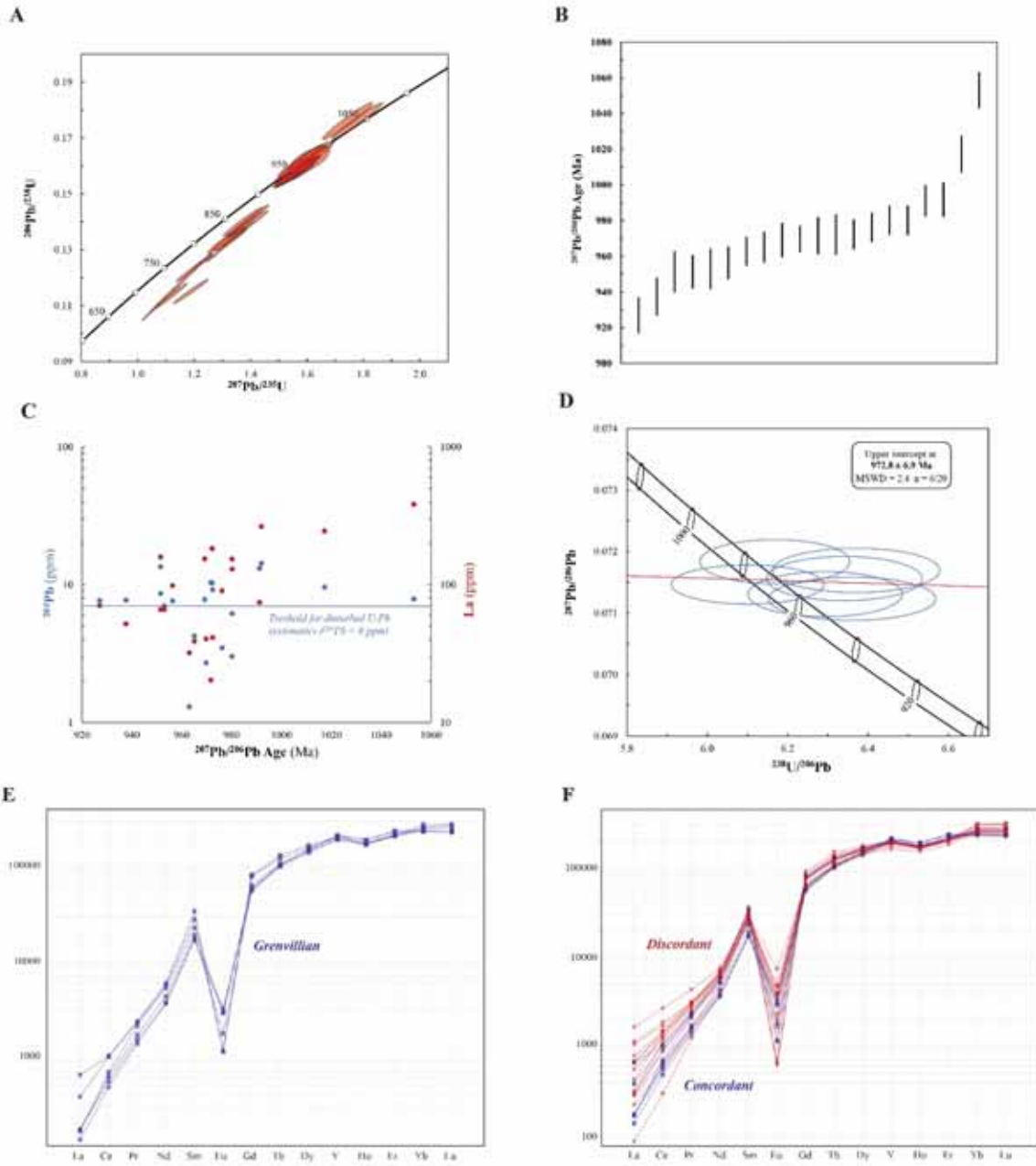
Pegmatite 4 – Zircon



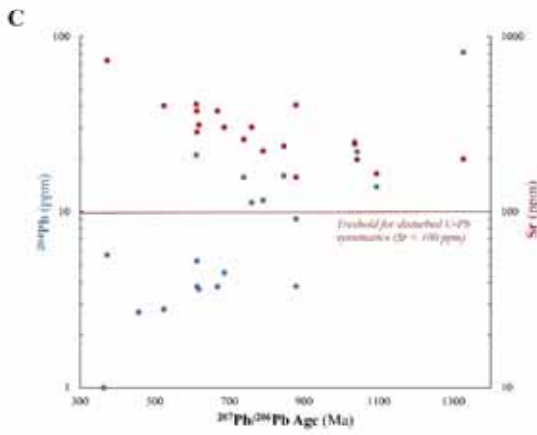
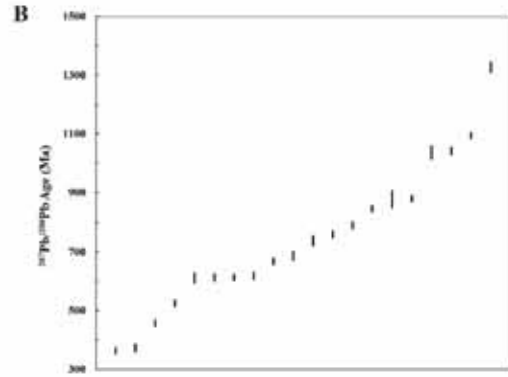
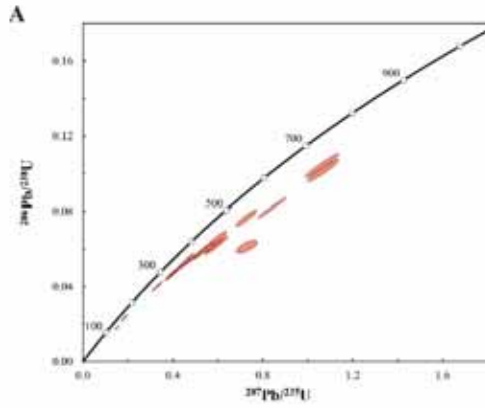
Pegmatite 5 – Monazite



Pegmatite 5 – Xenotime



Pegmatite 5 – Zircon

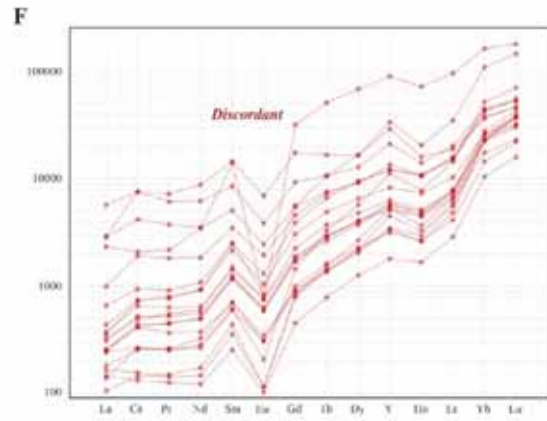


D

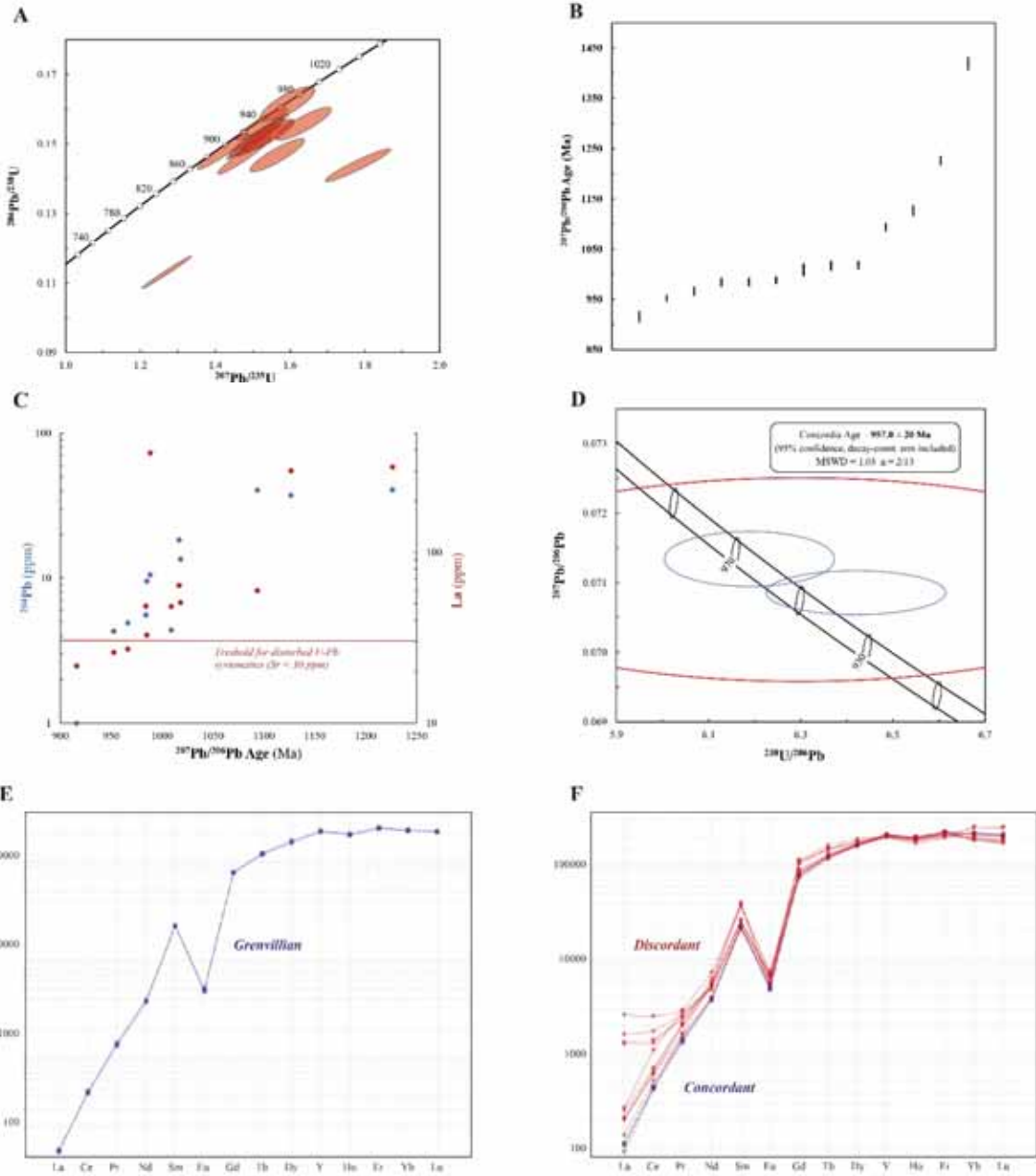
No concordant zircon present.

E

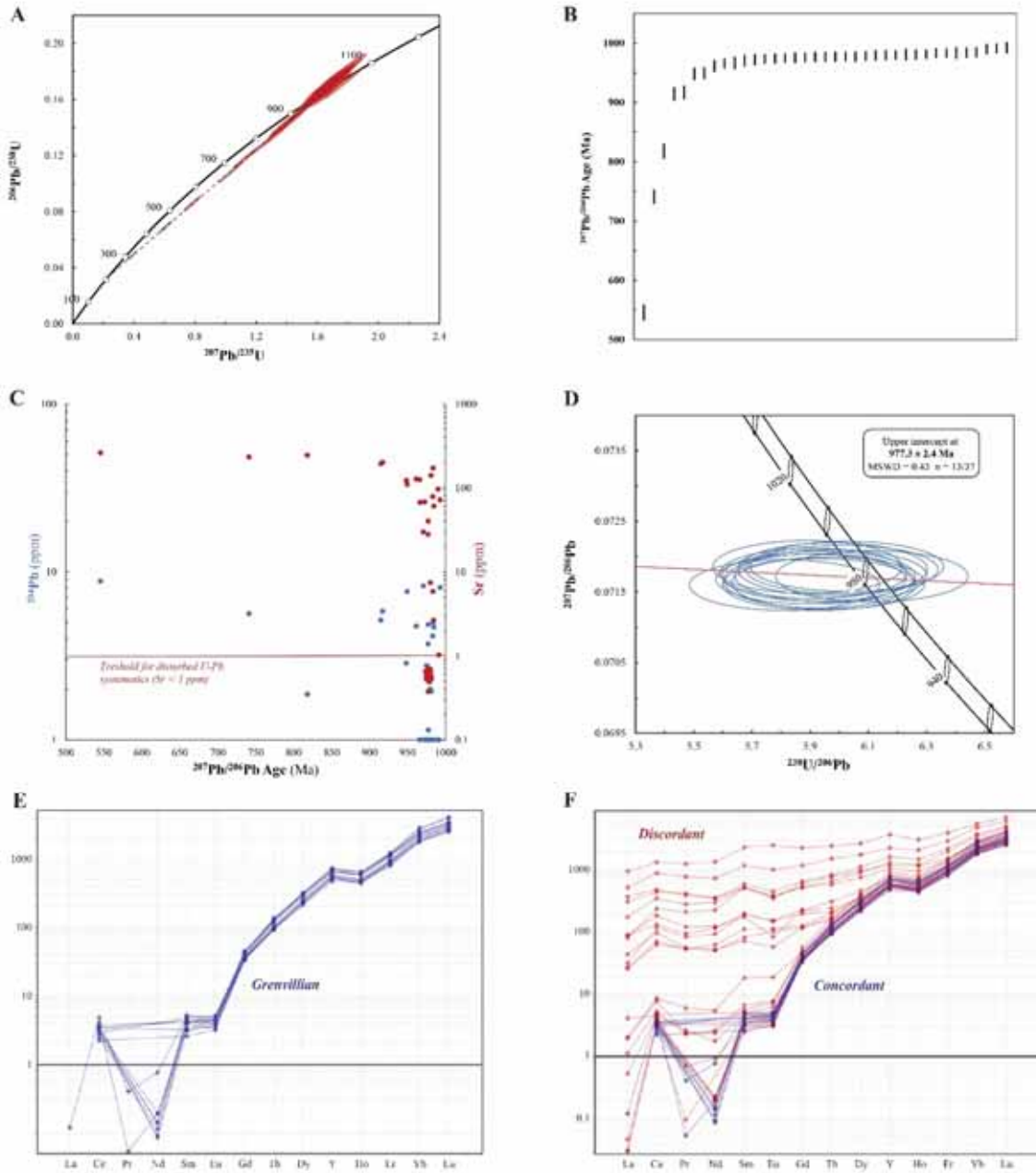
No concordant zircon present.



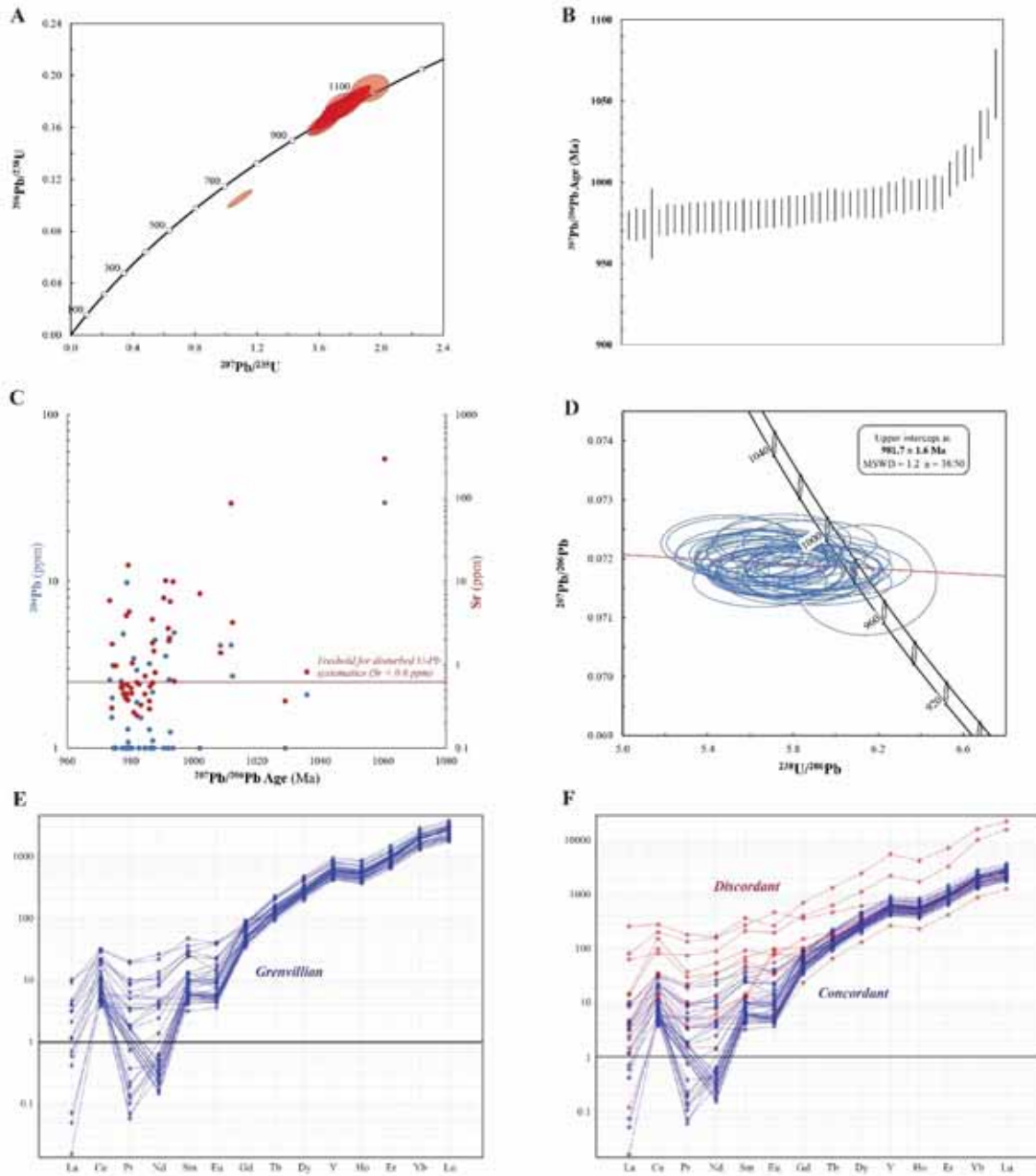
Pegmatite 6 (Kf-rich zone) – Xenotime



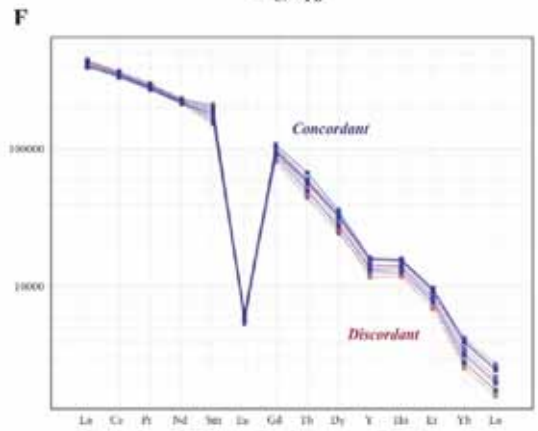
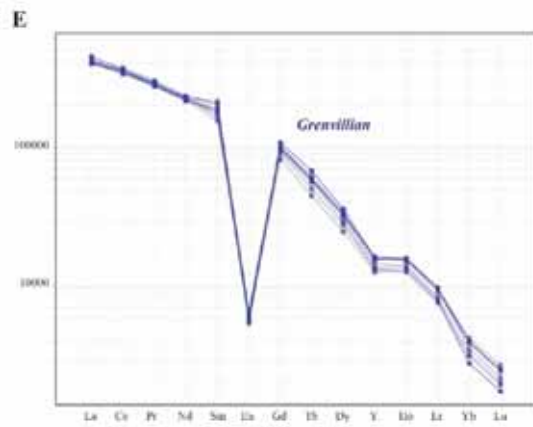
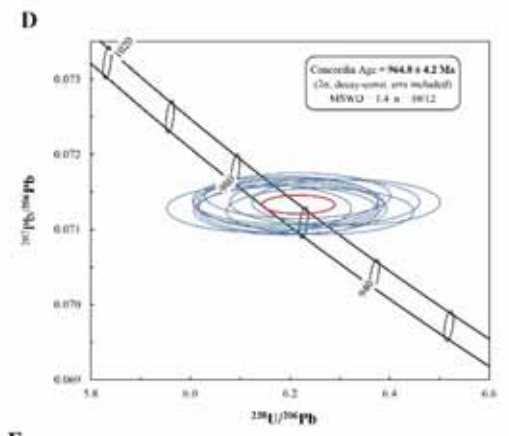
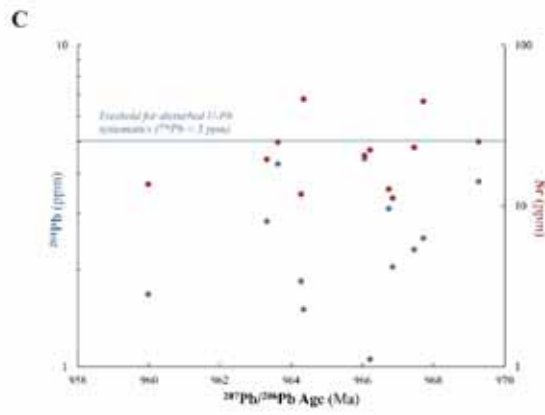
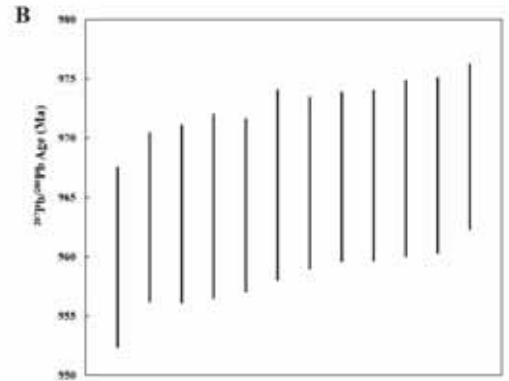
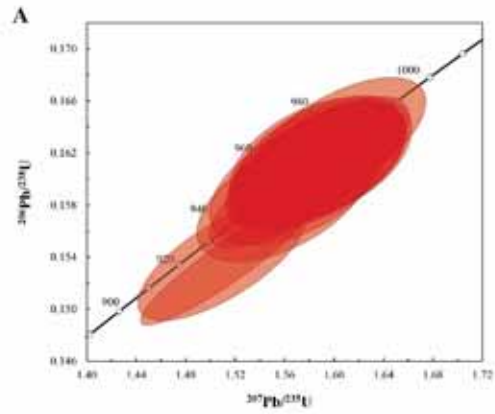
Pegmatite 6 (Kf-rich zone) – Zircon



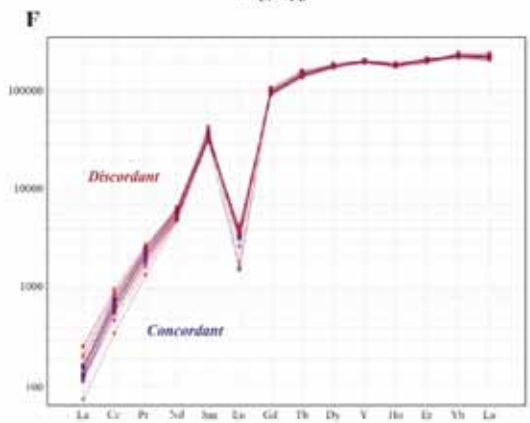
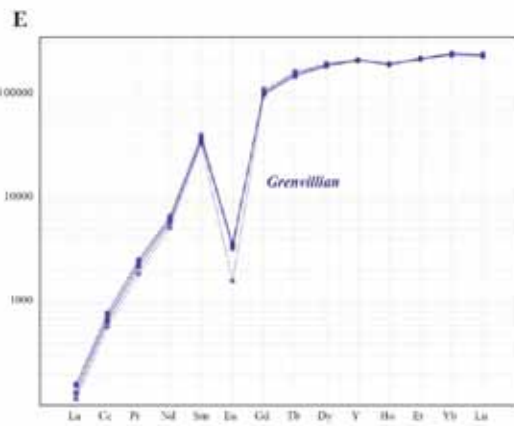
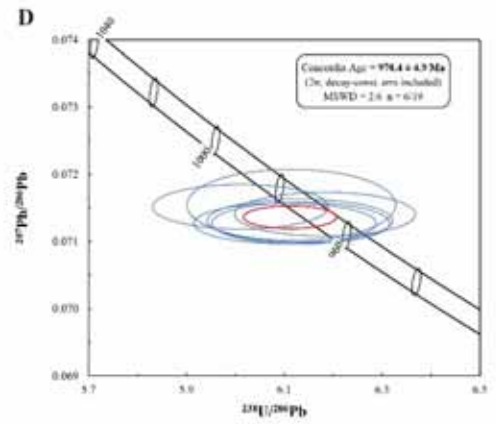
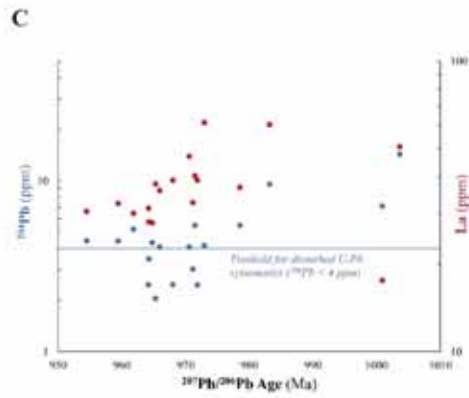
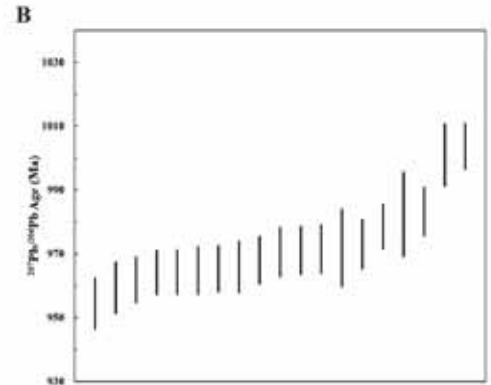
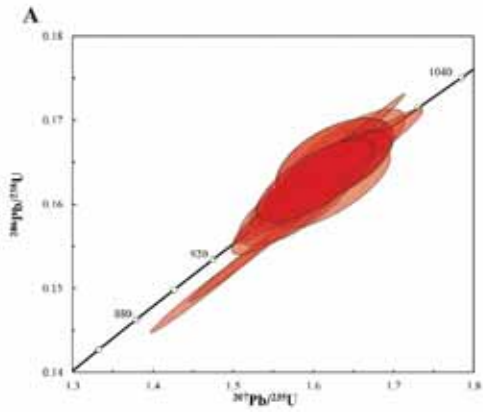
Pegmatite 6 (leucosome / albite-rich zone) – Zircon



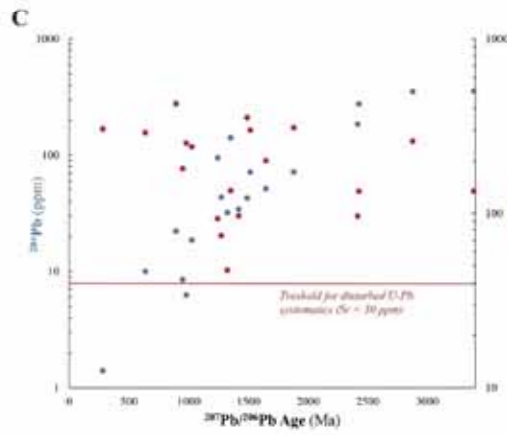
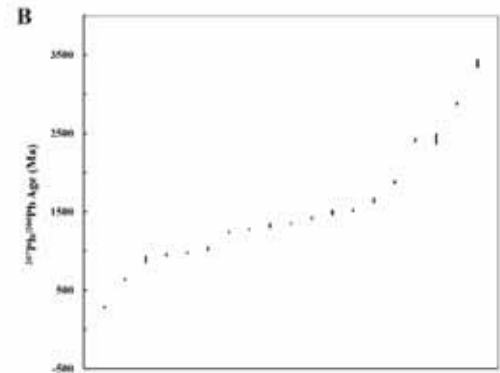
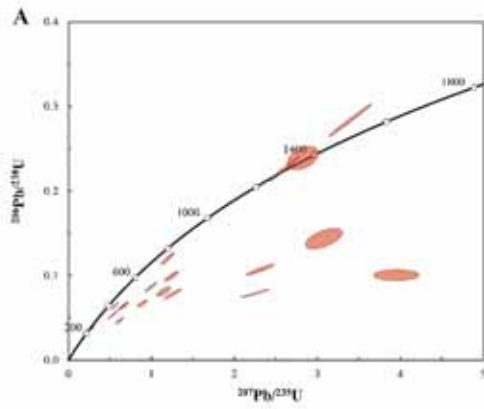
Pegmatite 7 – Monazite



Pegmatite 7 – Xenotime



Pegmatite 7 – Zircon

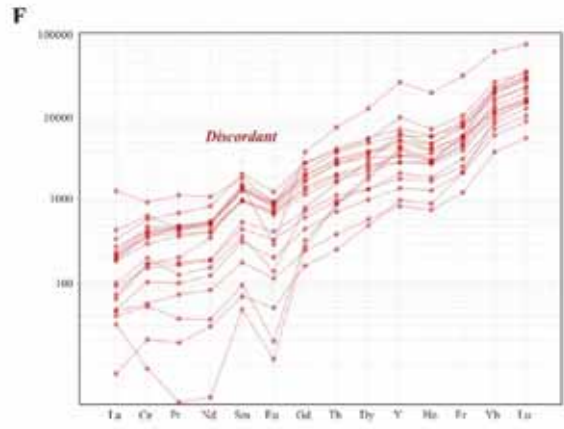


D

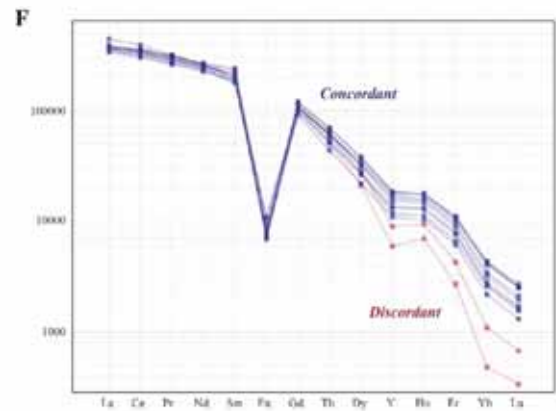
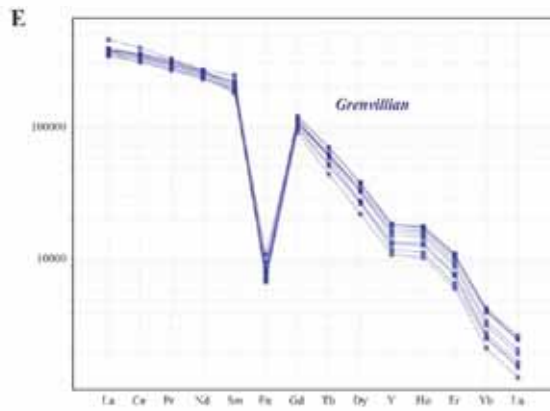
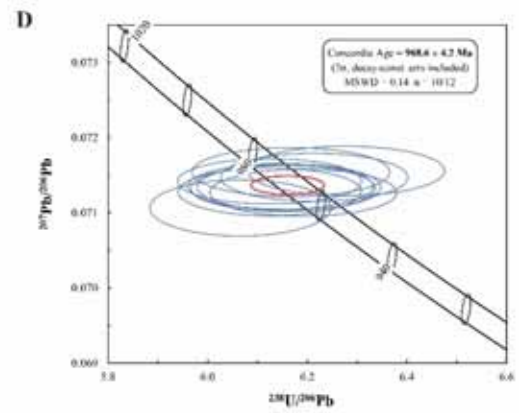
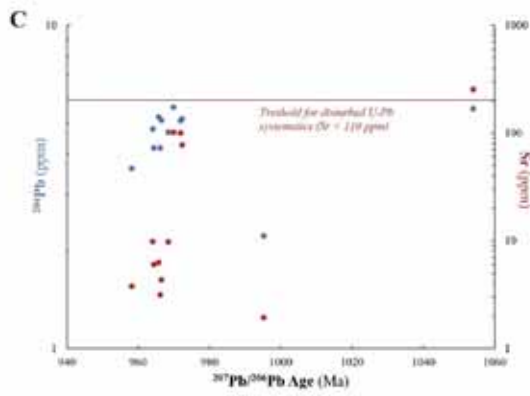
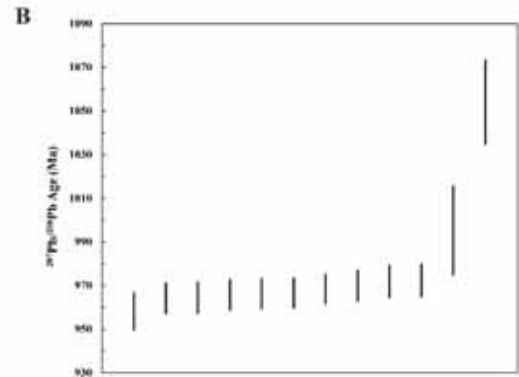
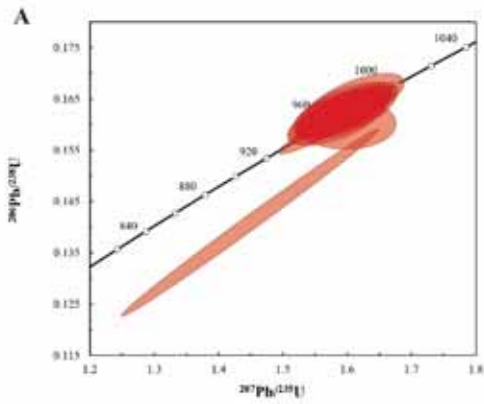
No concordant zircon present.

E

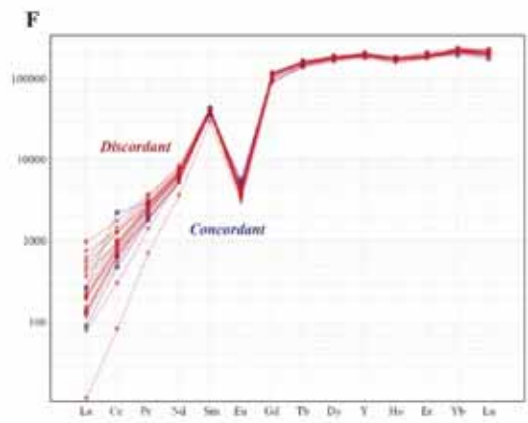
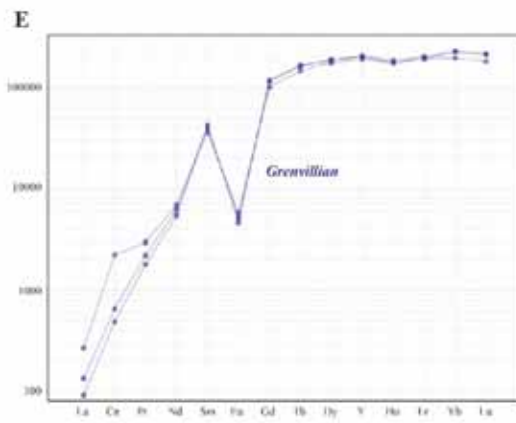
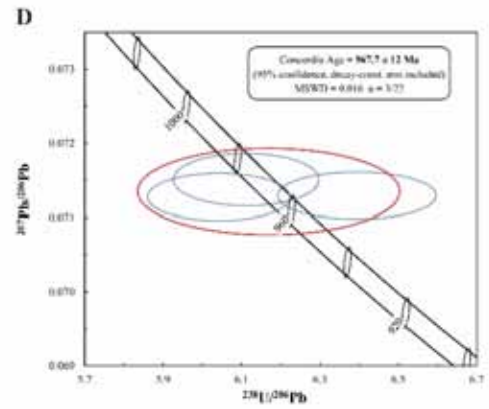
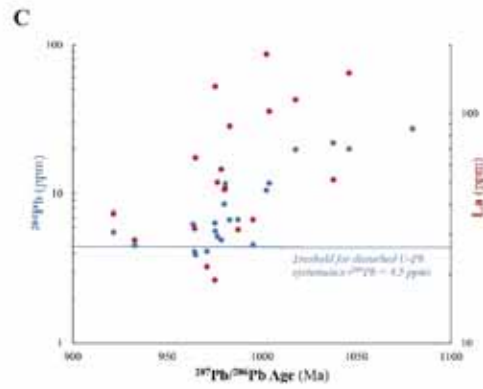
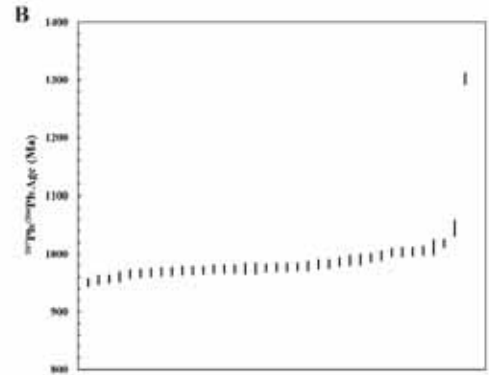
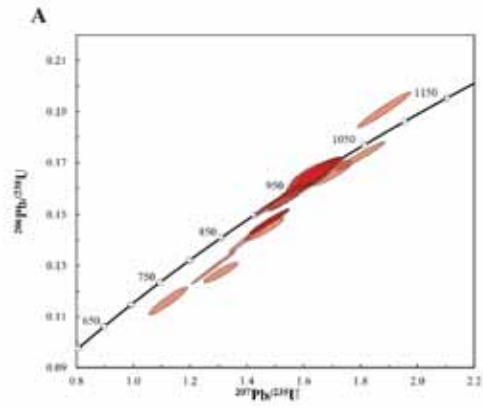
No concordant zircon present.



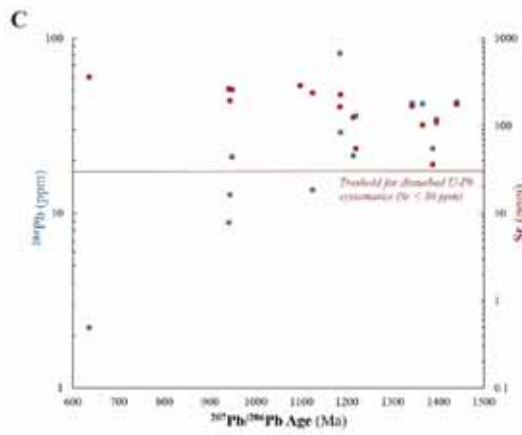
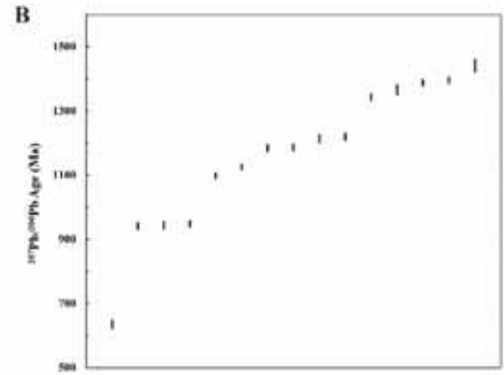
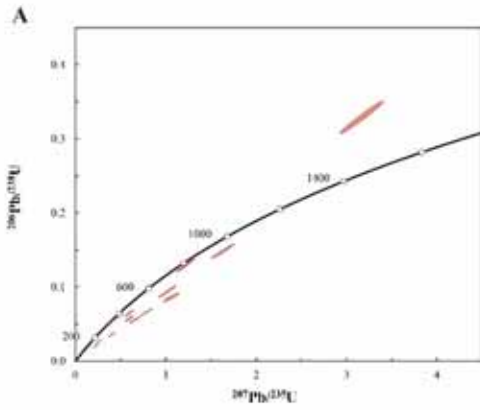
Pegmatite 8 – Monazite



Pegmatite 8 – Xenotime



Pegmatite 8 – Zircon

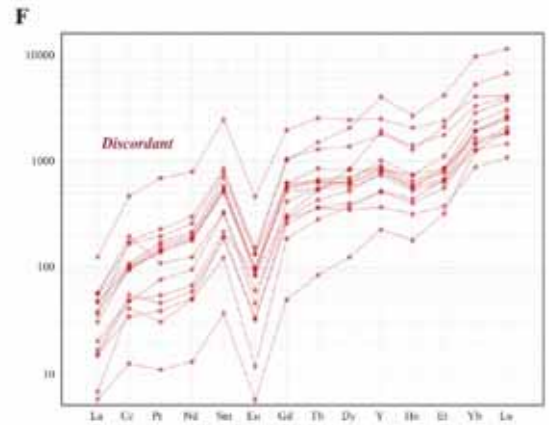


D

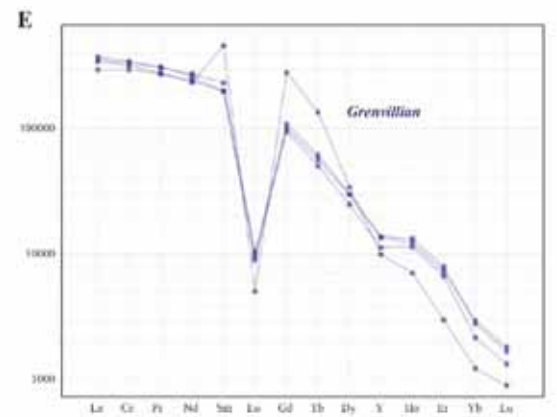
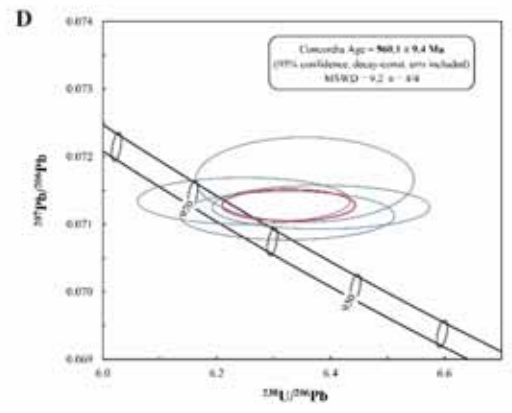
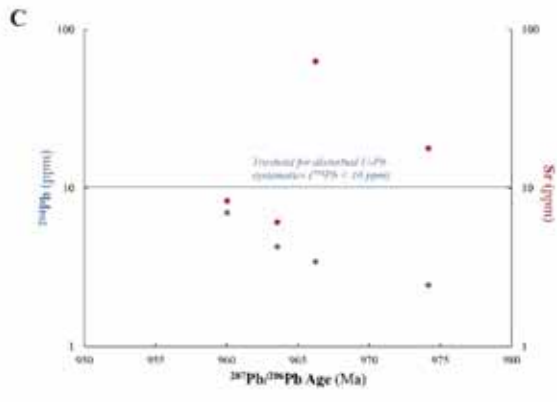
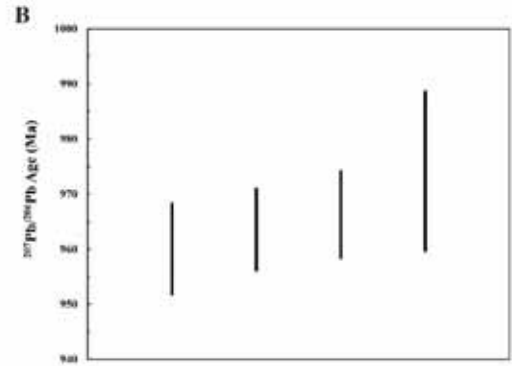
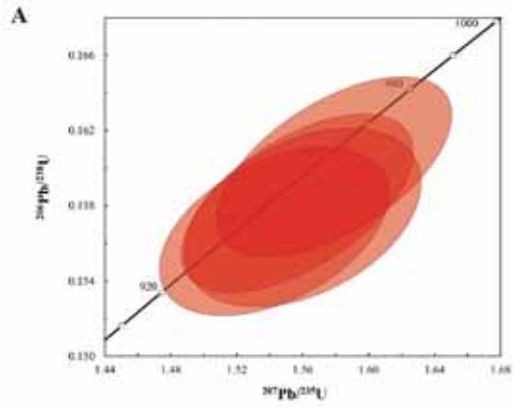
No concordant zircon present.

E

No concordant zircon present.



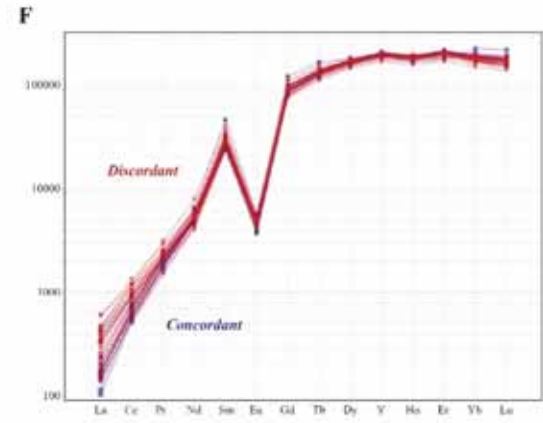
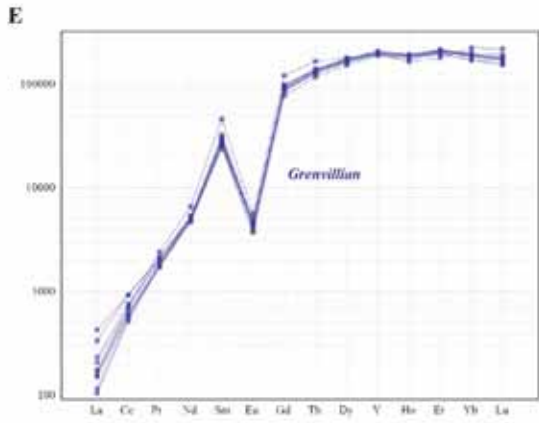
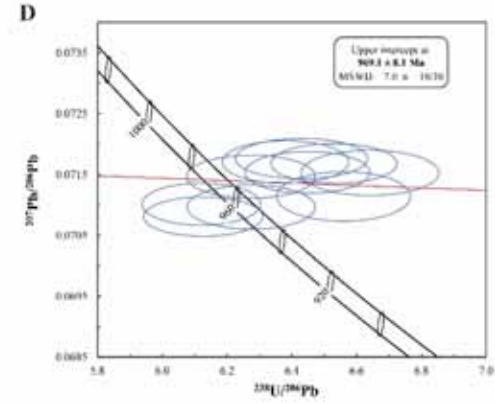
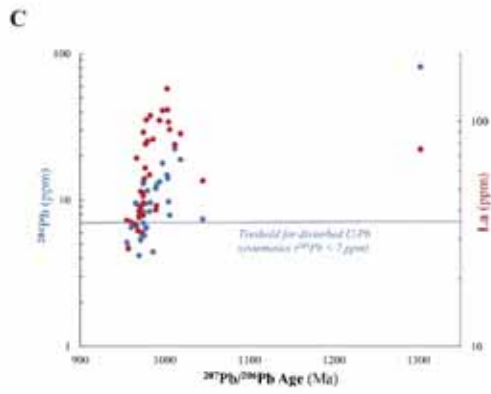
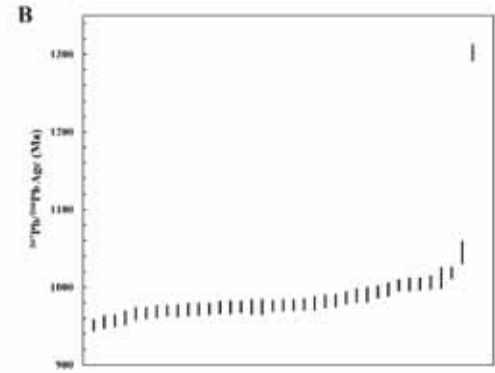
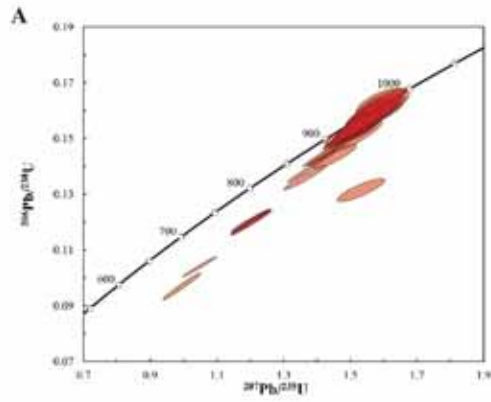
Pegmatite 9W – Monazite



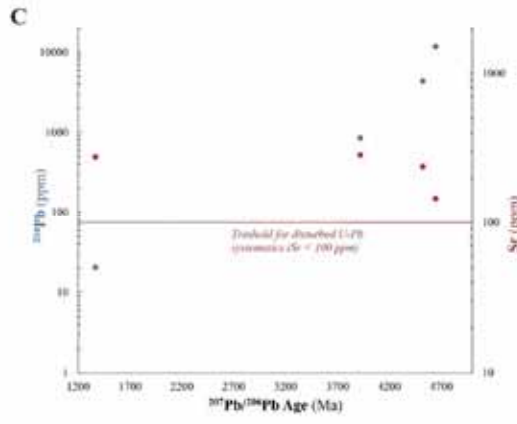
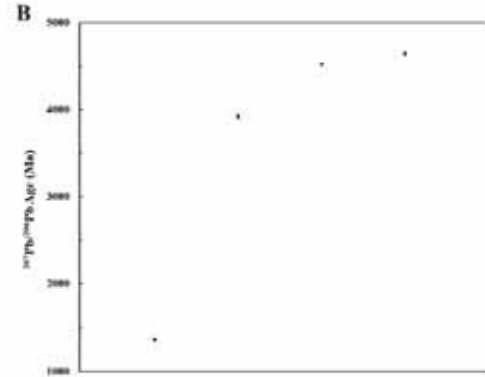
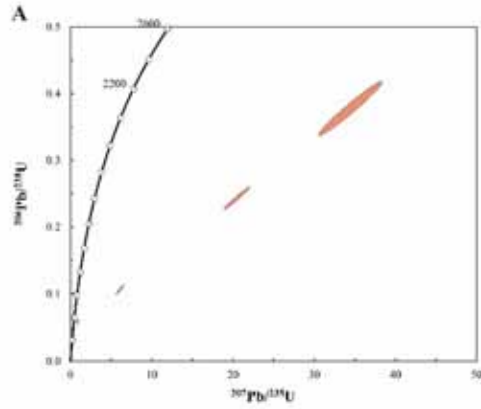
F

No discordant monazite present.

Pegmatite 9W – Xenotime



Pegmatite 9W – Zircon

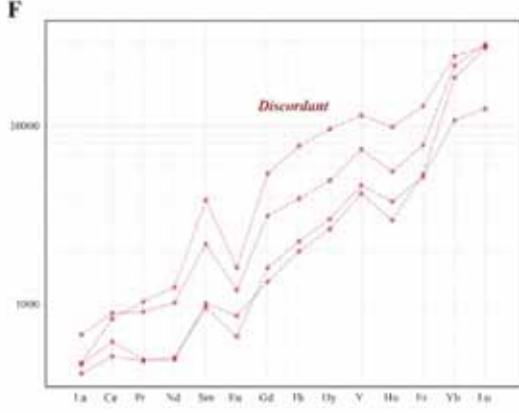


D

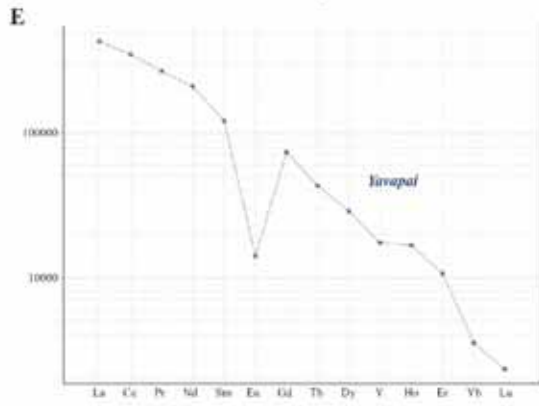
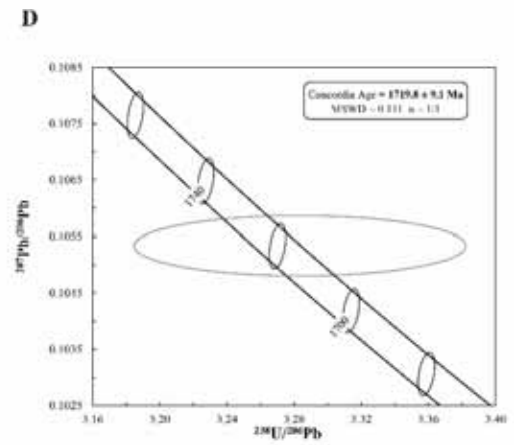
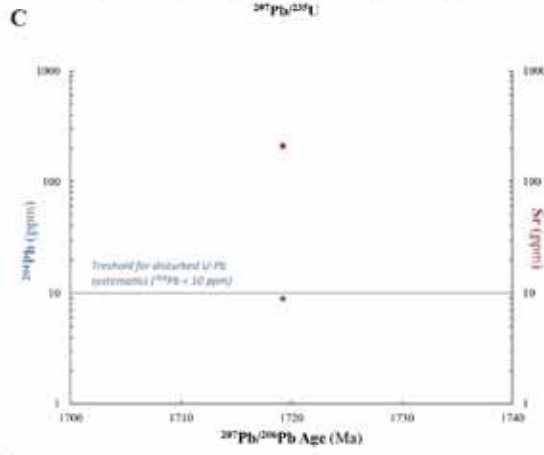
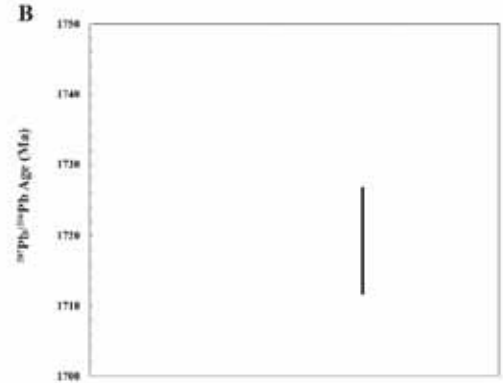
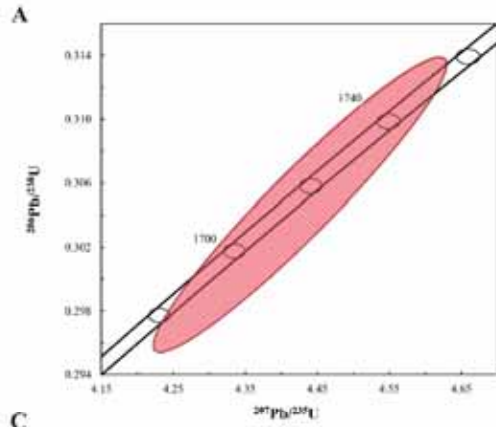
No concordant zircon present.

E

No concordant zircon present.



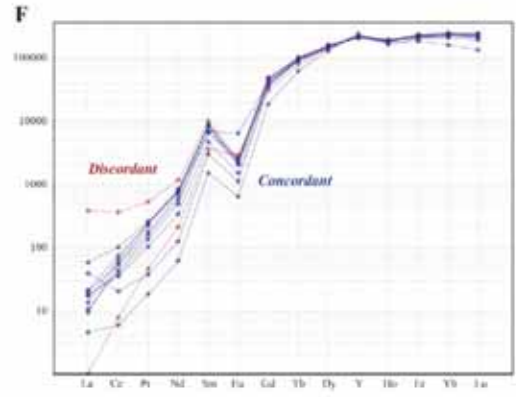
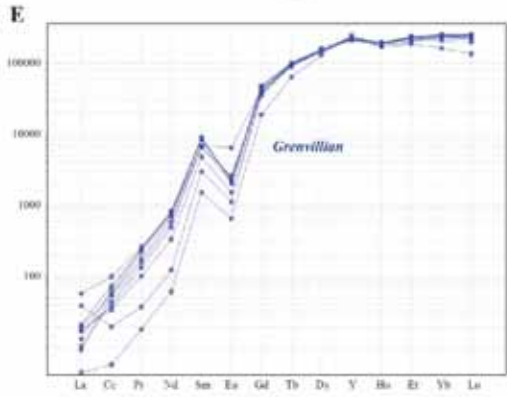
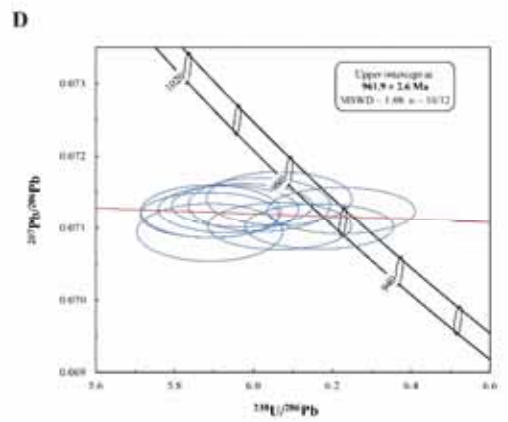
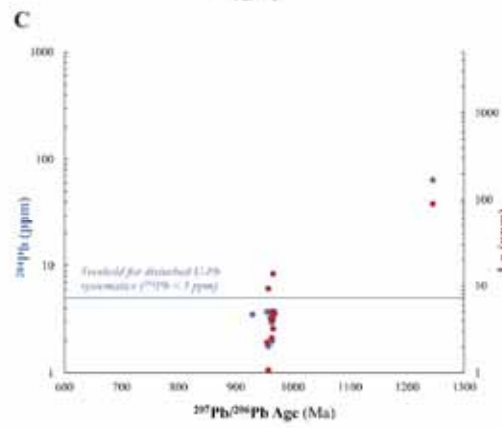
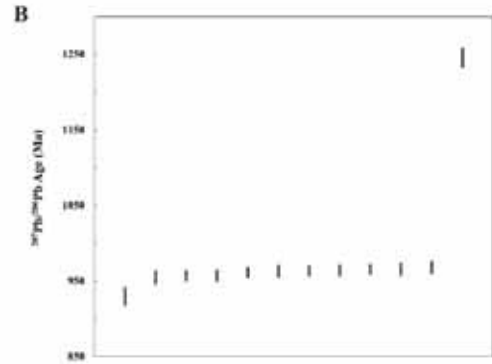
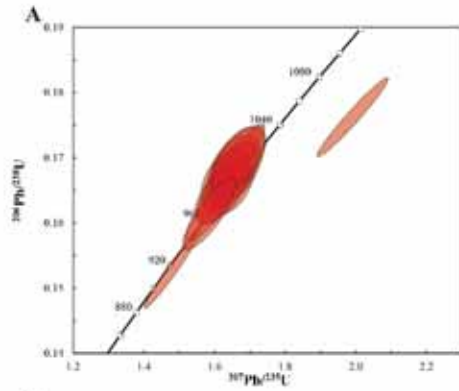
Pegmatite 12 – Monazite



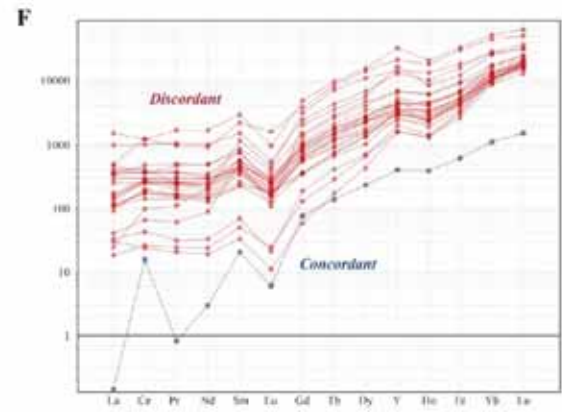
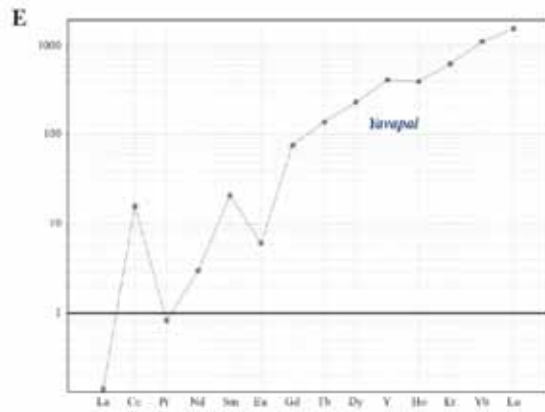
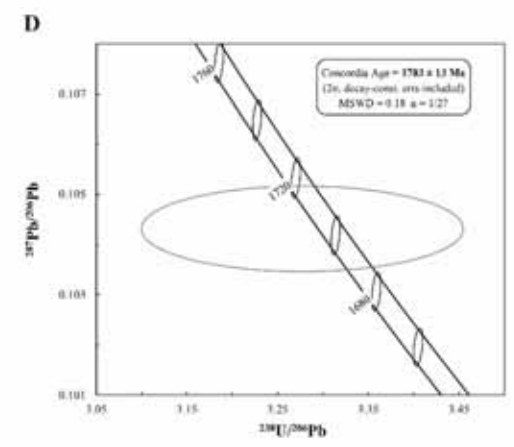
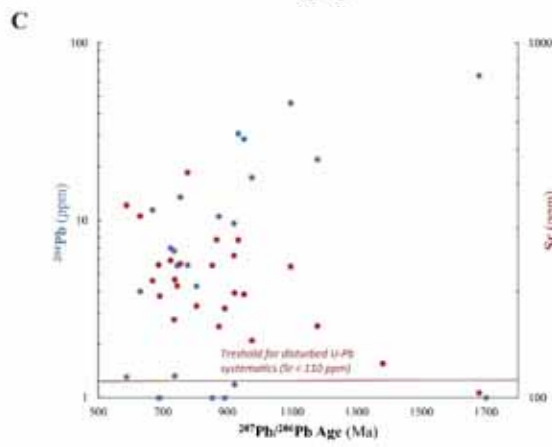
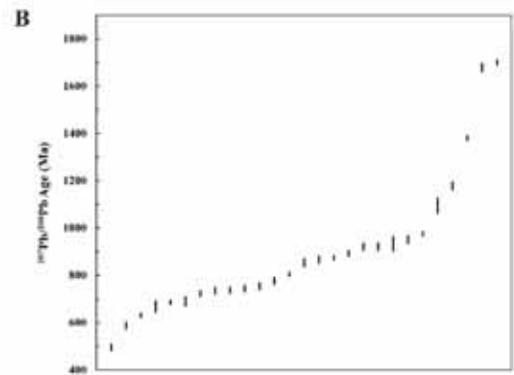
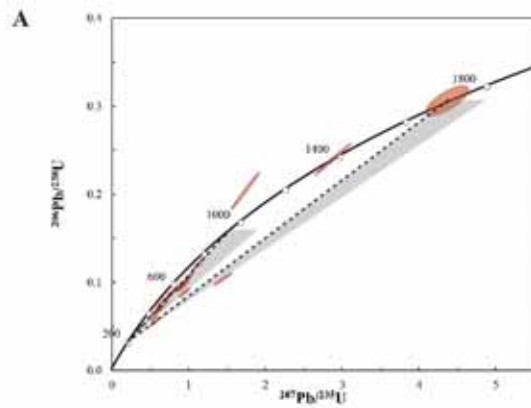
F

No discordant monazite present.

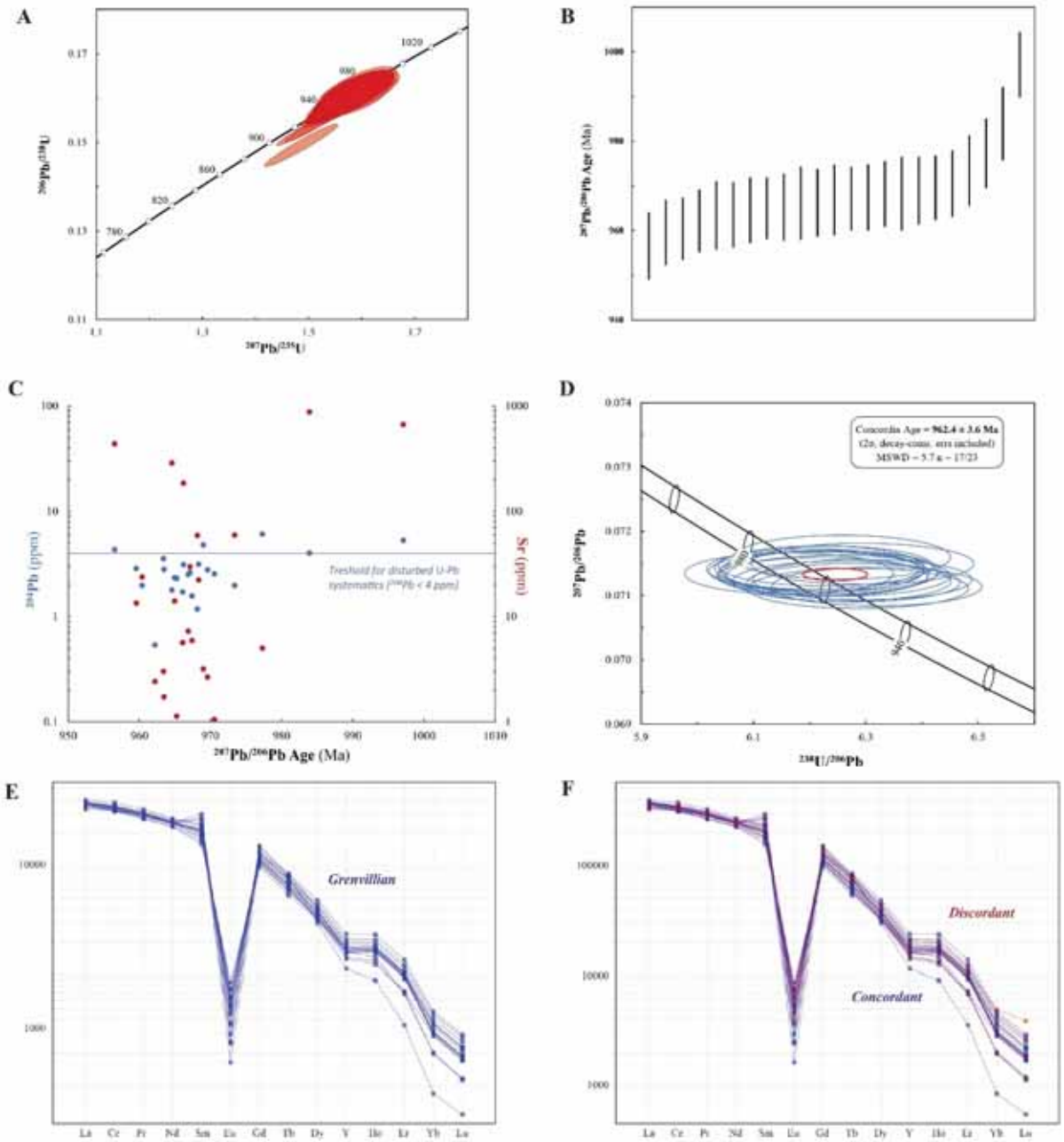
Pegmatite 12 – Xenotime



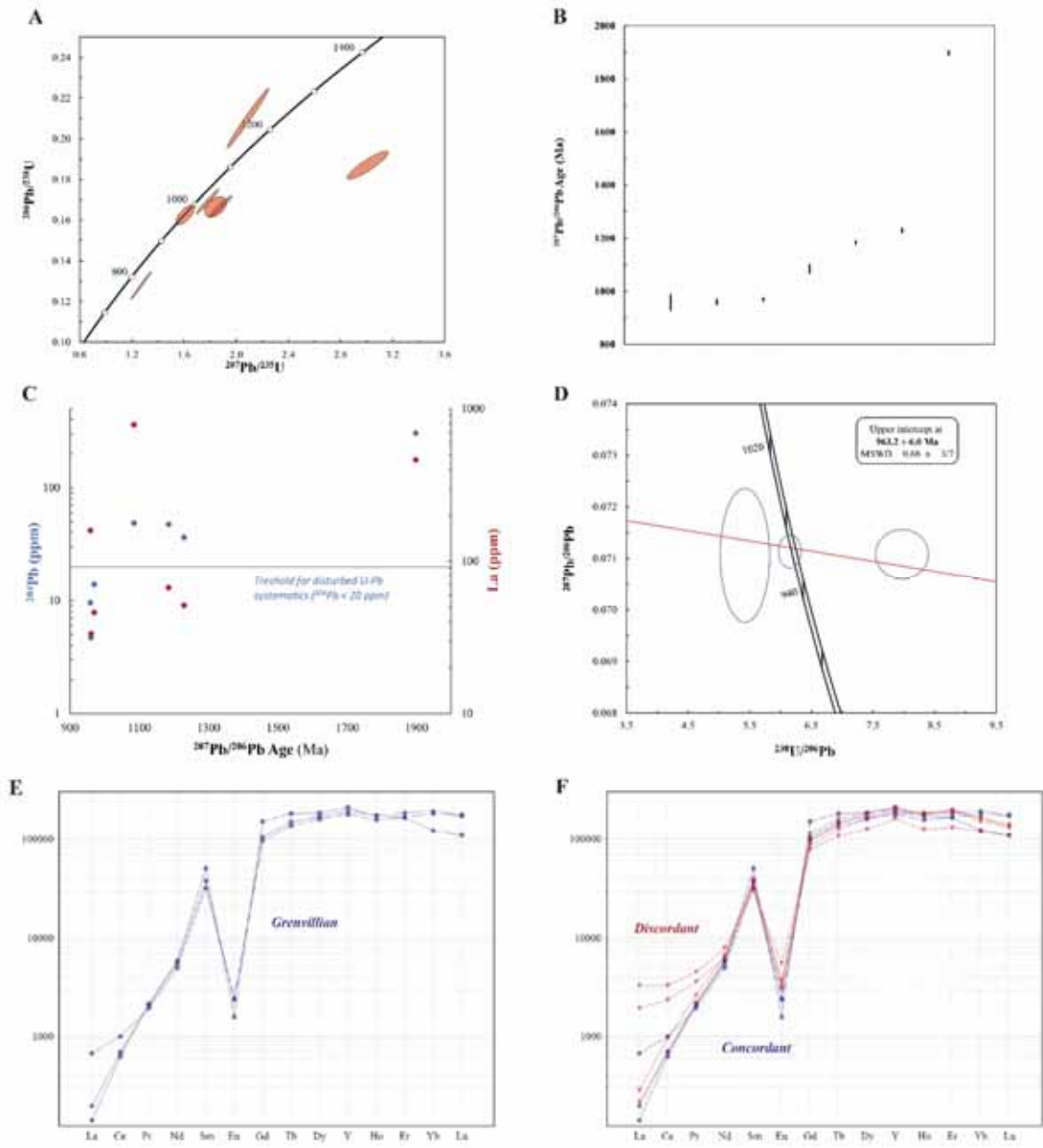
Pegmatite 12 – Zircon



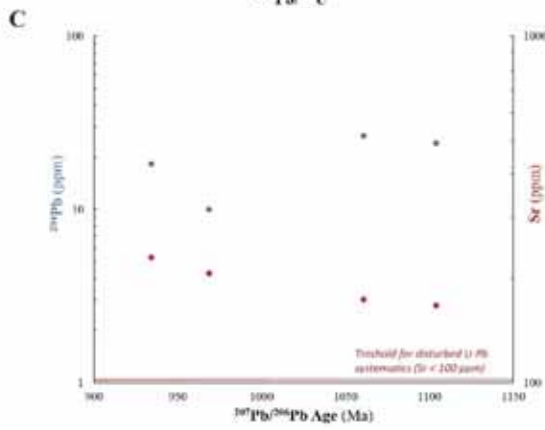
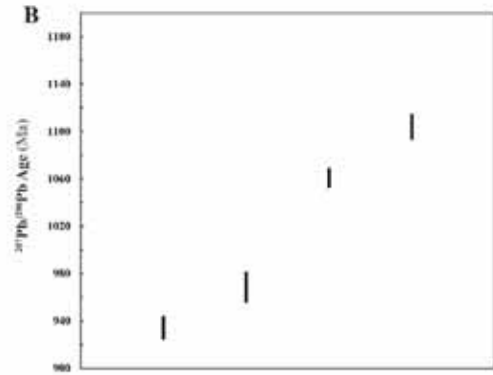
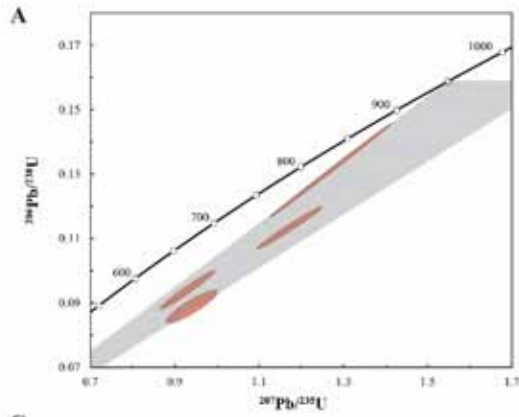
Pegmatite 15 – Monazite



Pegmatite 15 – Xenotime



Pegmatite 15 – Zircon

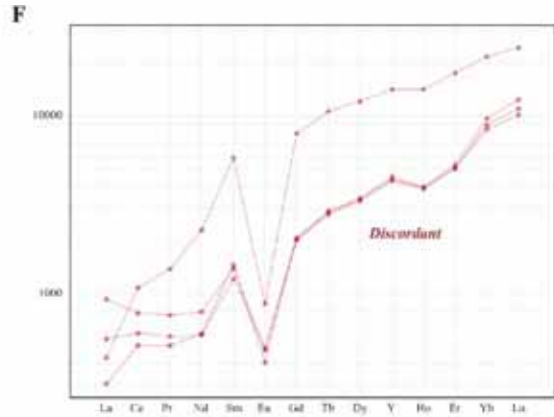


D

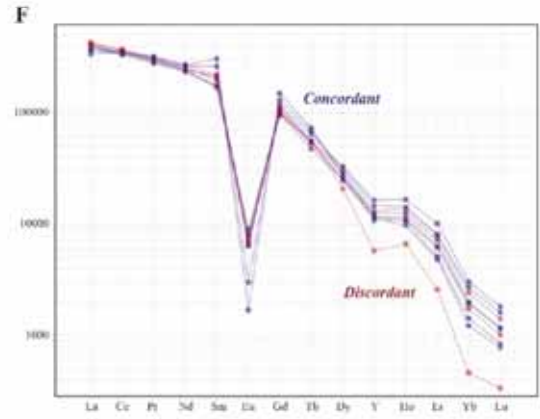
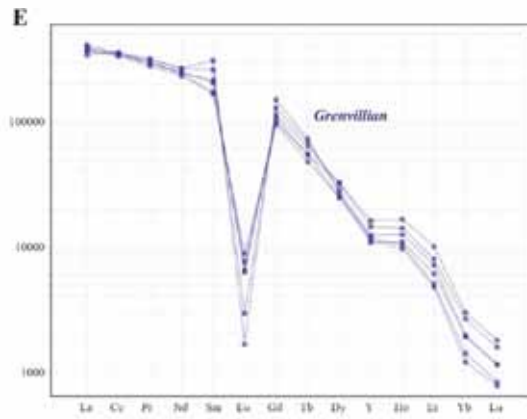
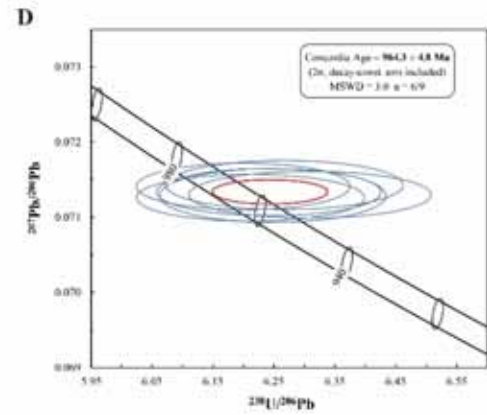
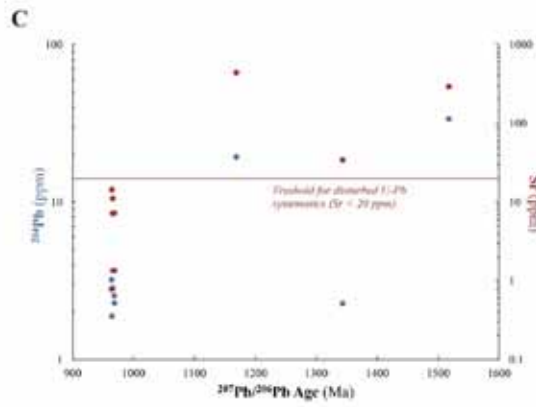
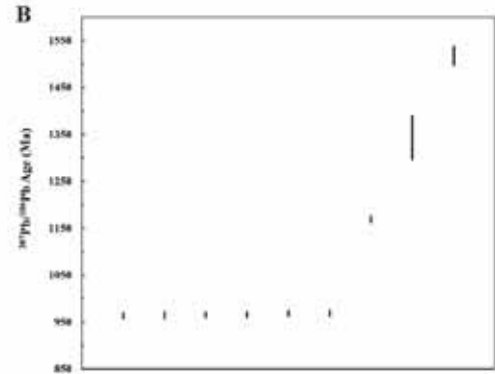
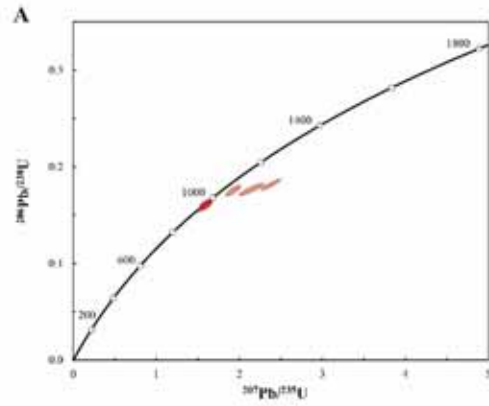
No concordant zircon present.

E

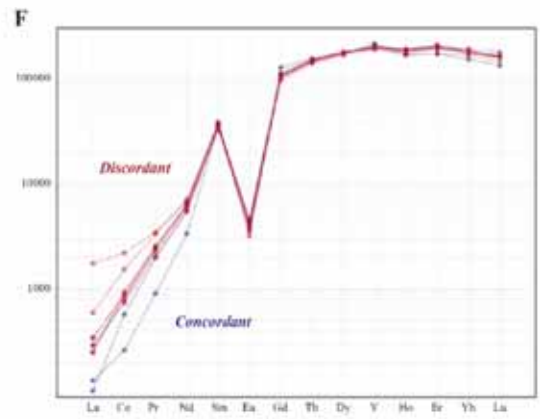
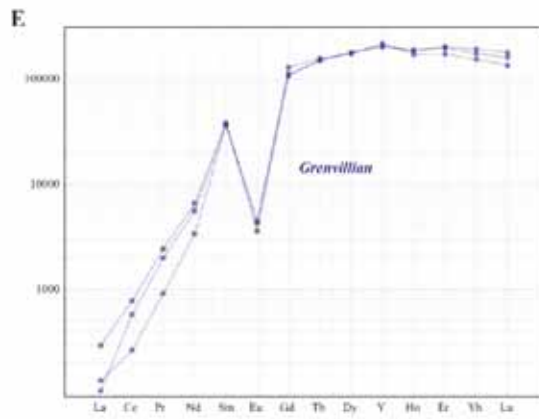
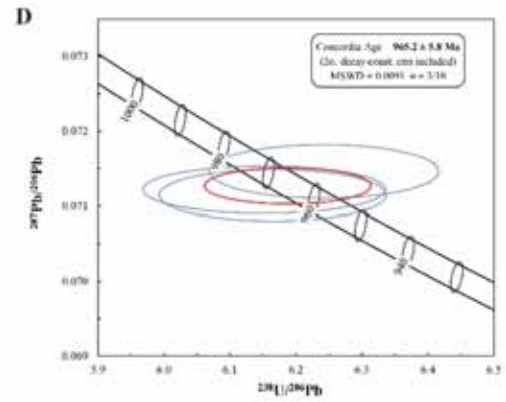
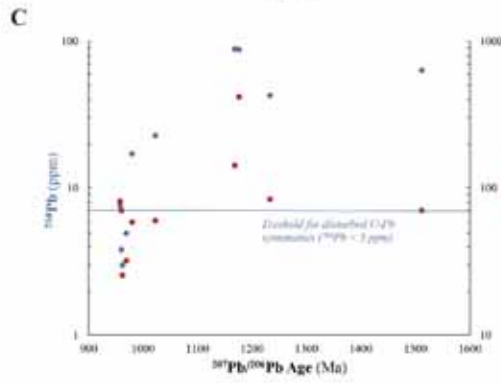
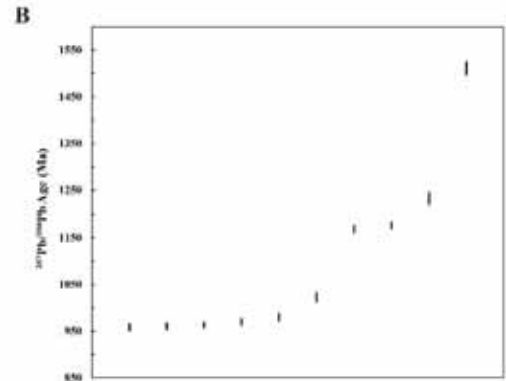
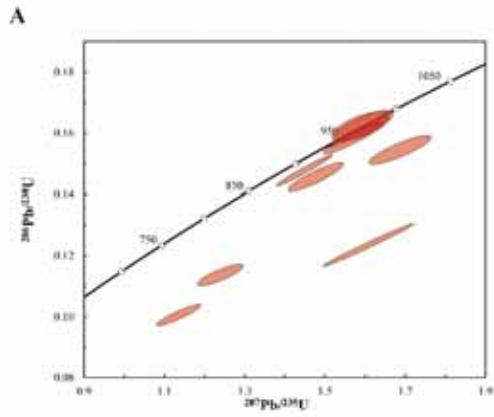
No concordant zircon present.



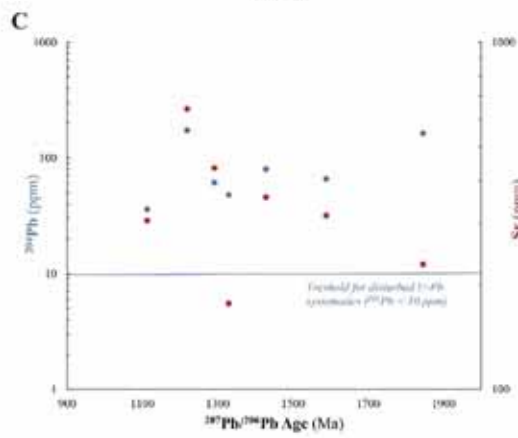
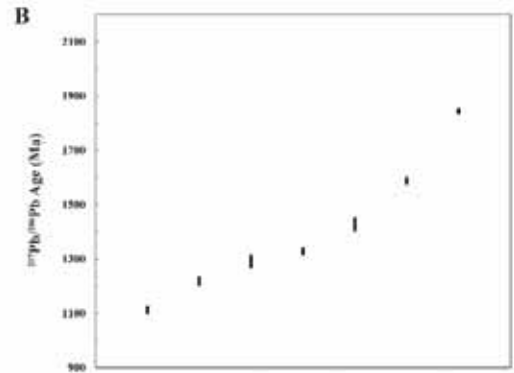
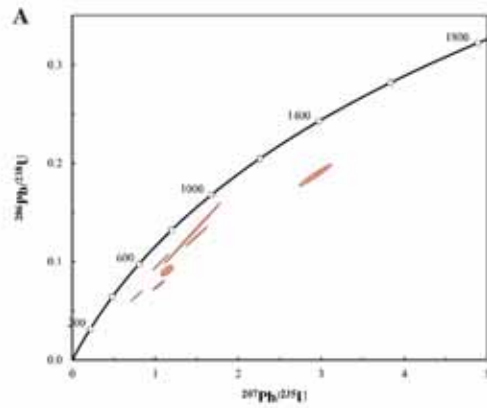
Pegmatite 18 – Monazite



Pegmatite 18 – Xenotime



Pegmatite 18 – Zircon

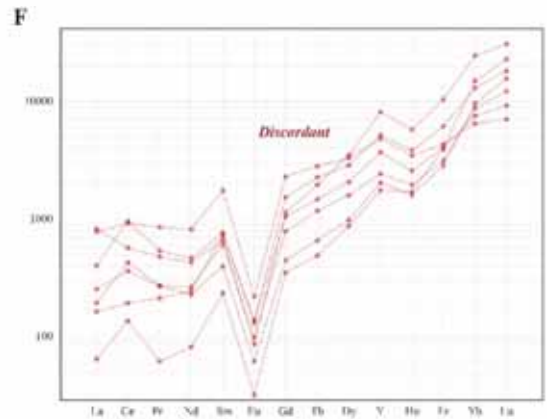


D

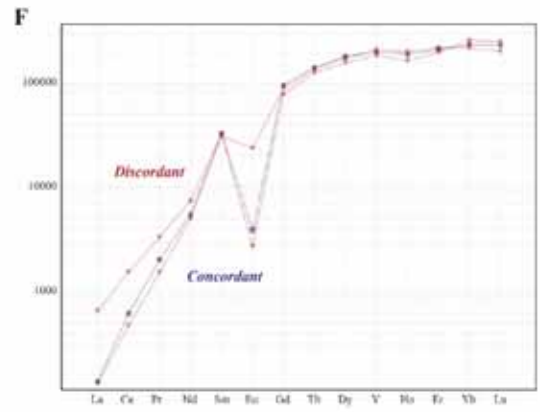
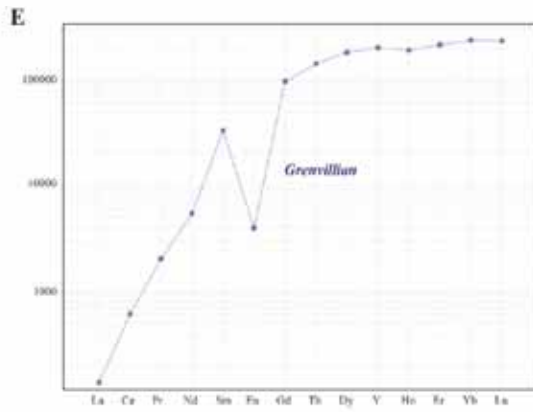
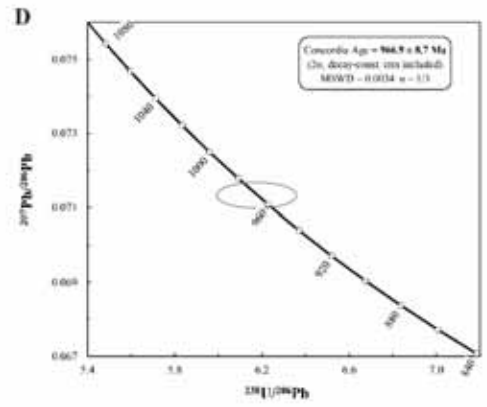
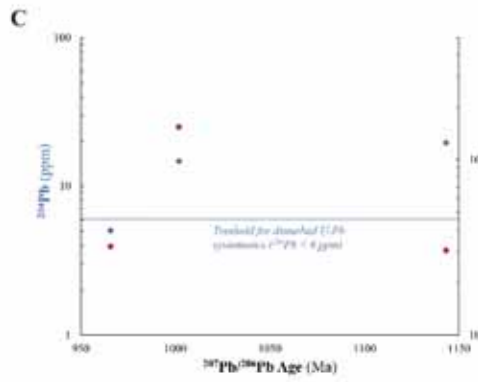
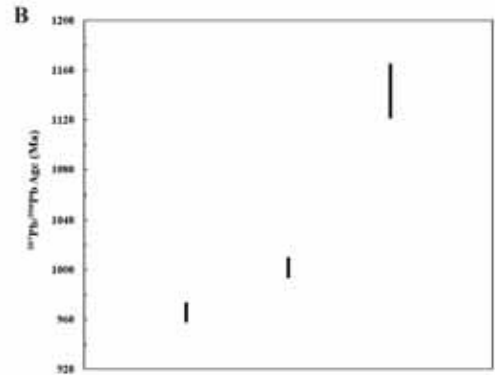
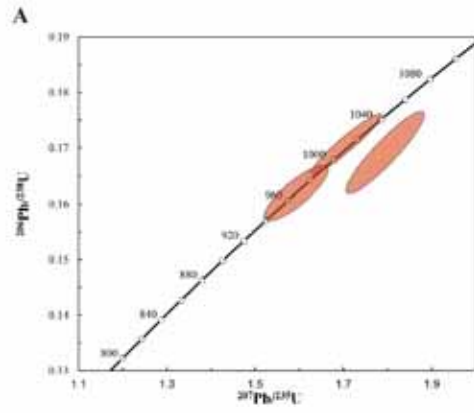
No concordant zircon present.

E

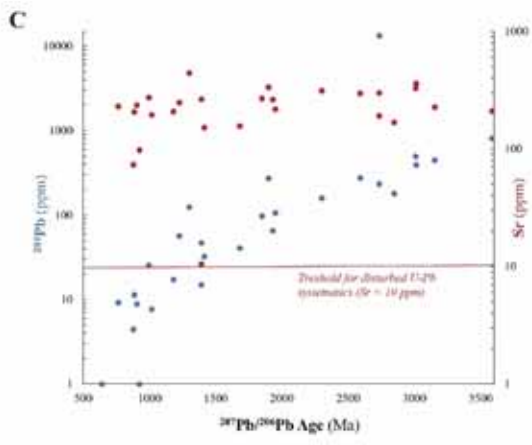
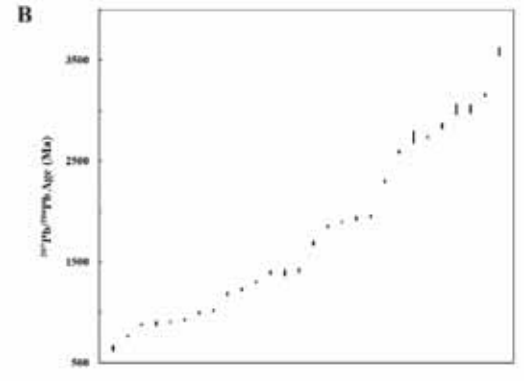
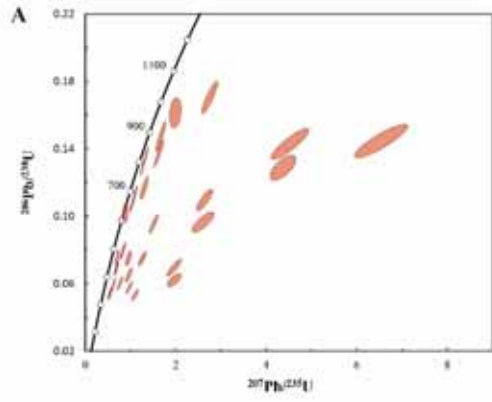
No concordant zircon present.



Pegmatite 19 – Xenotime



Pegmatite 19 – Zircon

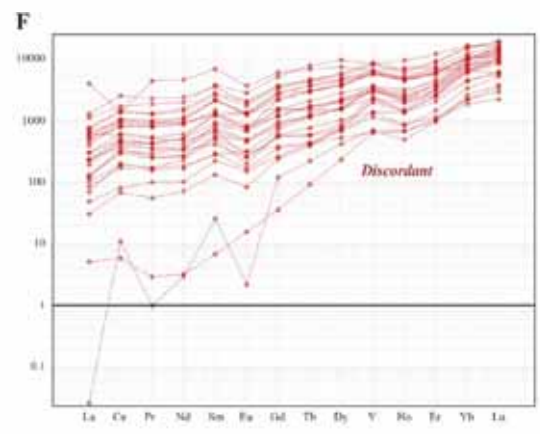


D

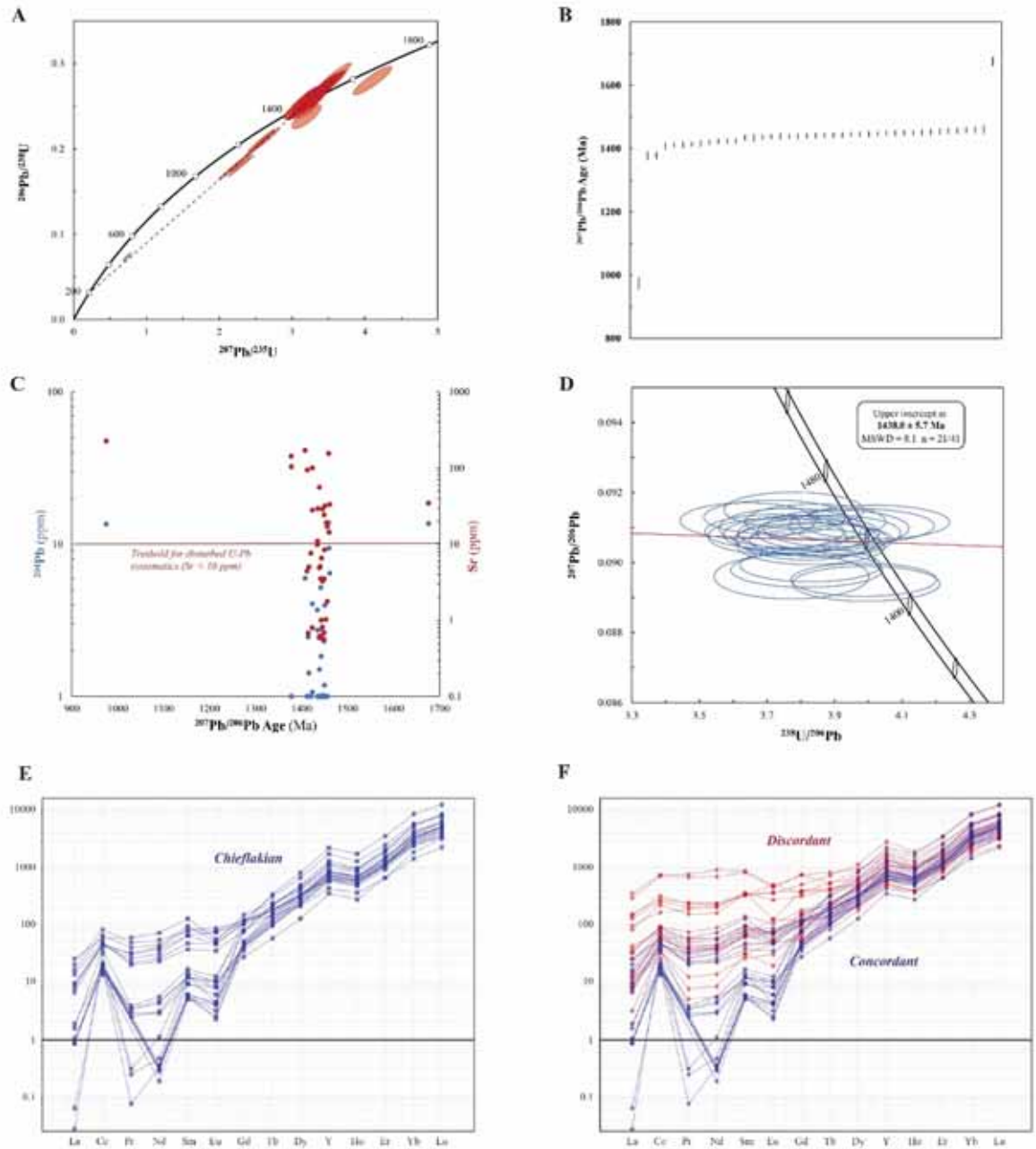
No concordant zircon present.

E

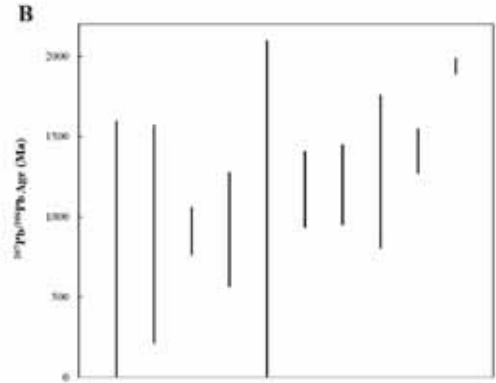
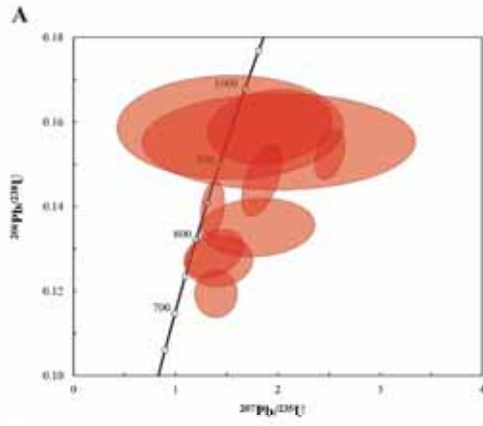
No concordant zircon present.



Pegmatite 23 – Zircon

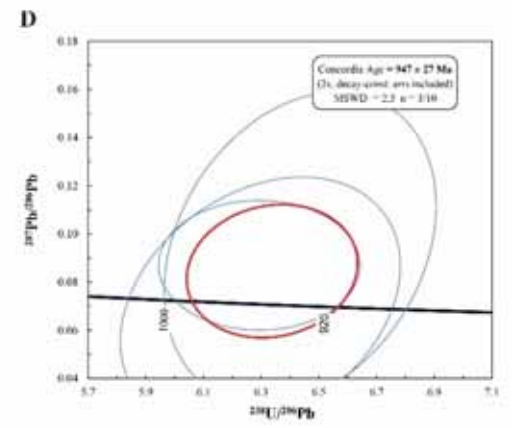


Pegmatite 24 – Xenotime



C

TE not analyzed.



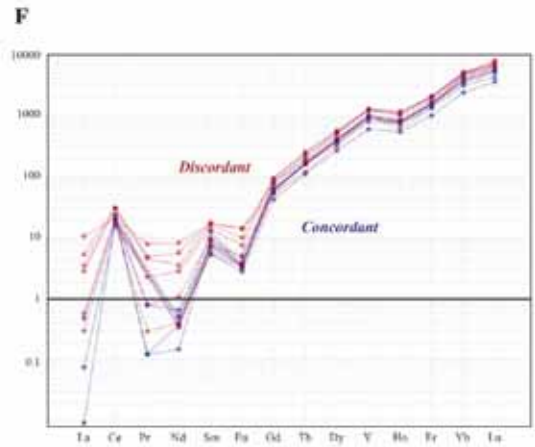
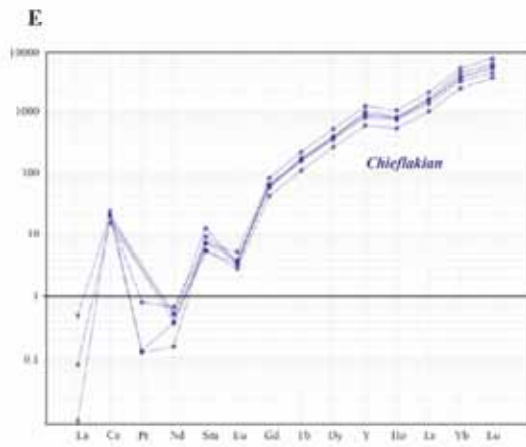
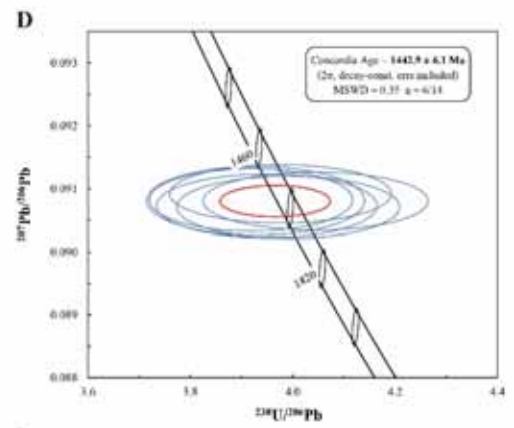
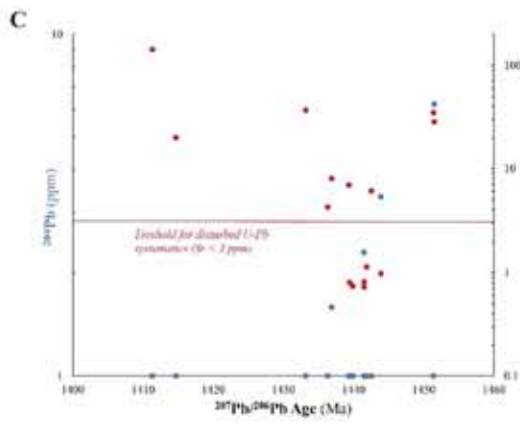
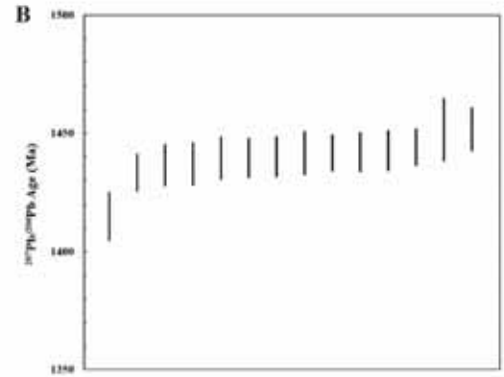
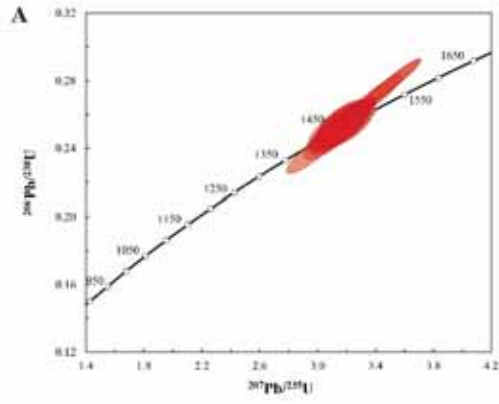
E

TE not analyzed.

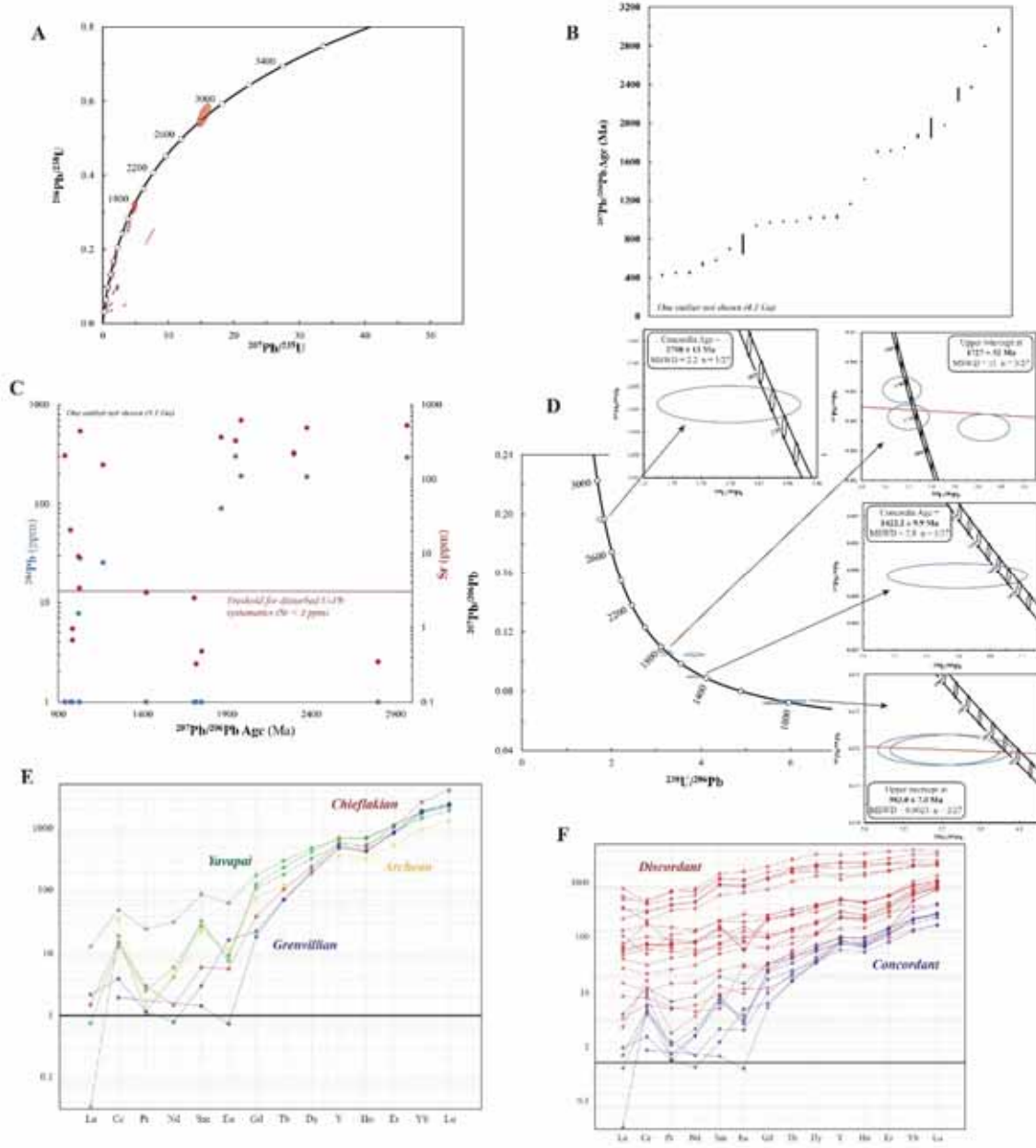
F

TE not analyzed.

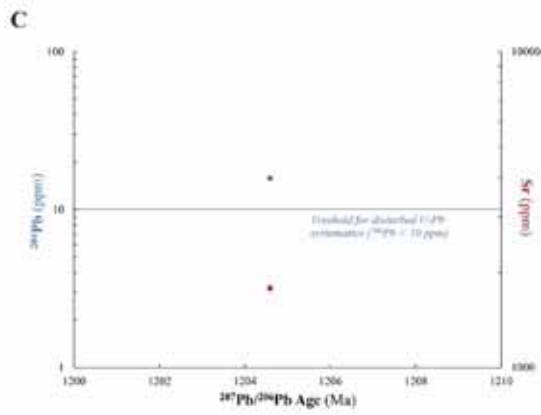
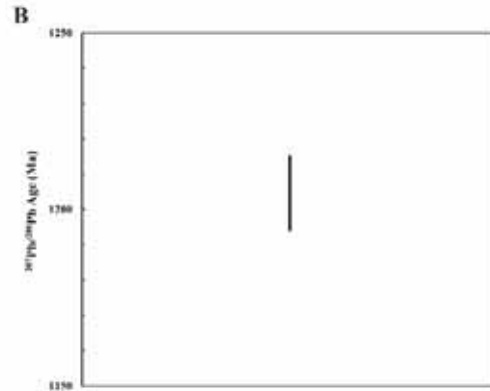
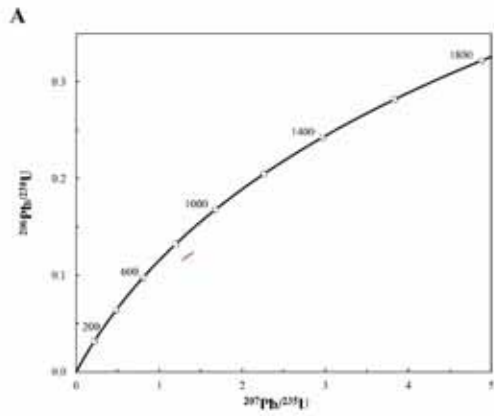
Pegmatite 24 – Zircon



Pegmatite 25 – Zircon



Pegmatite 27 – Monazite

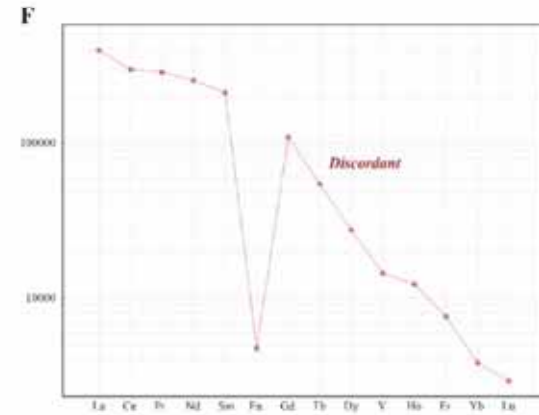


D

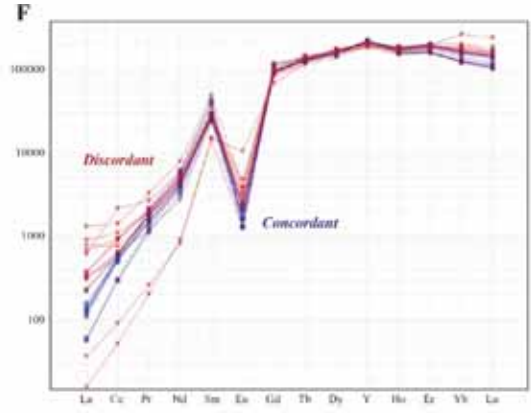
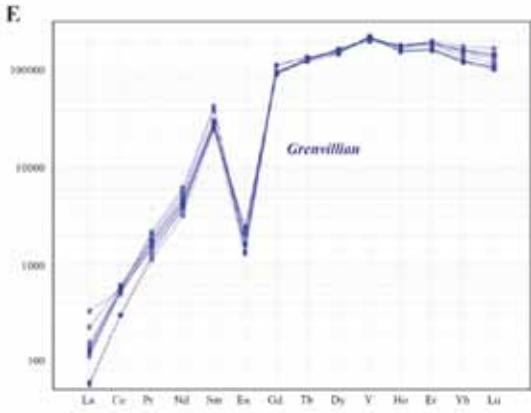
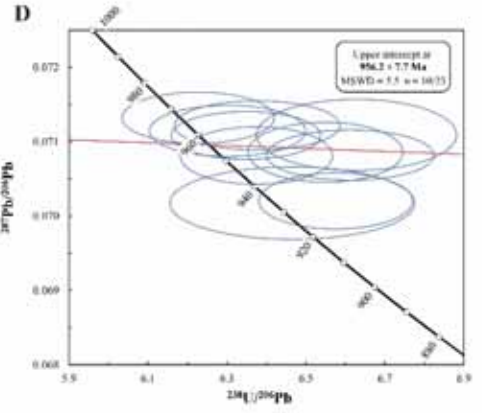
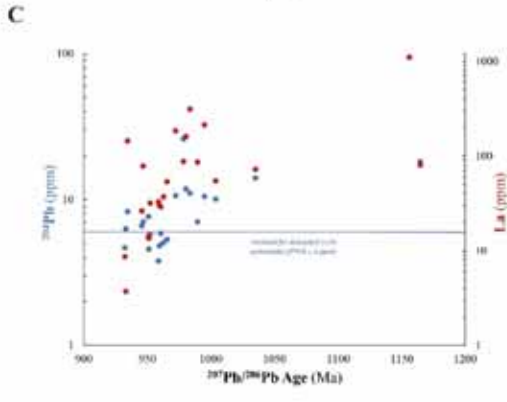
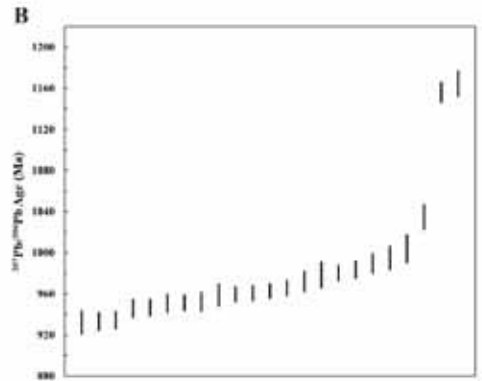
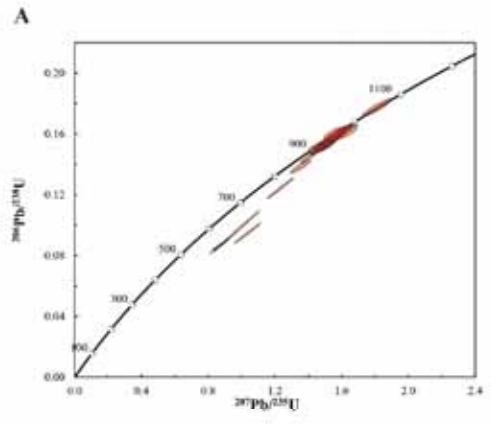
No concordant monazite present.

E

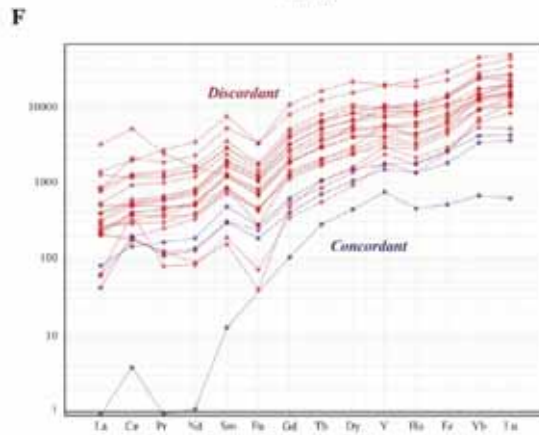
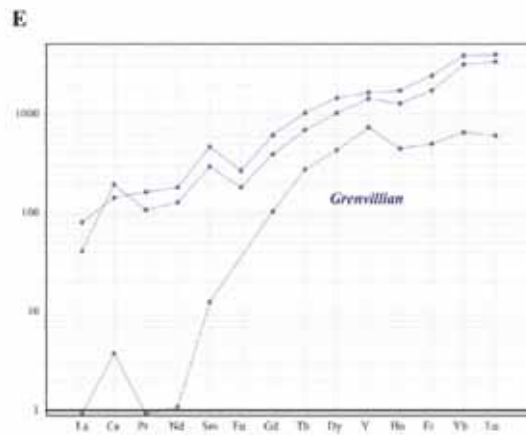
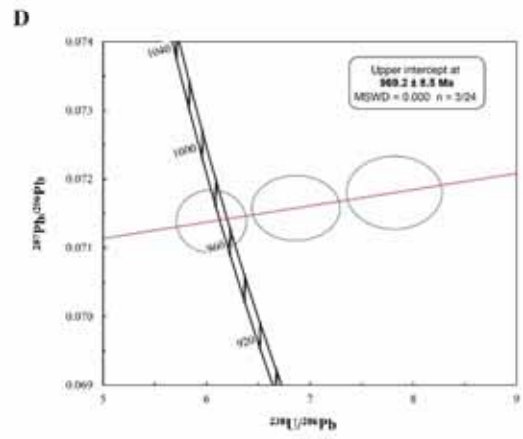
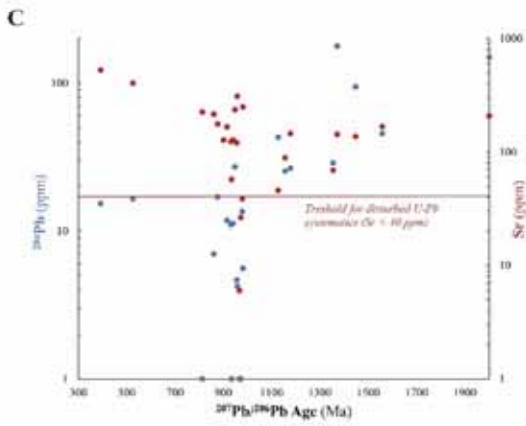
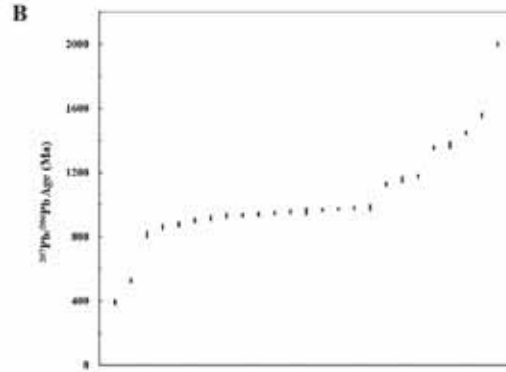
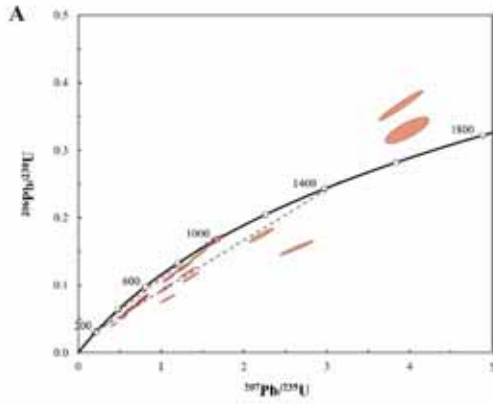
No concordant monazite present.



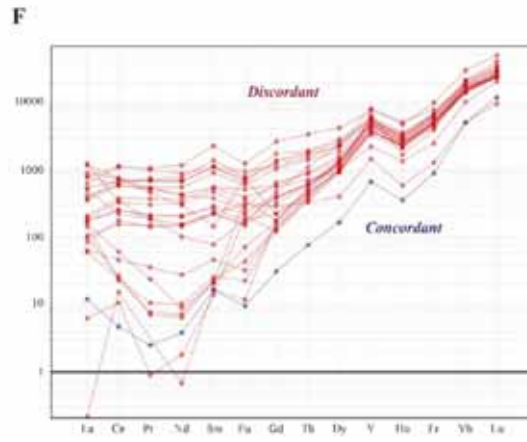
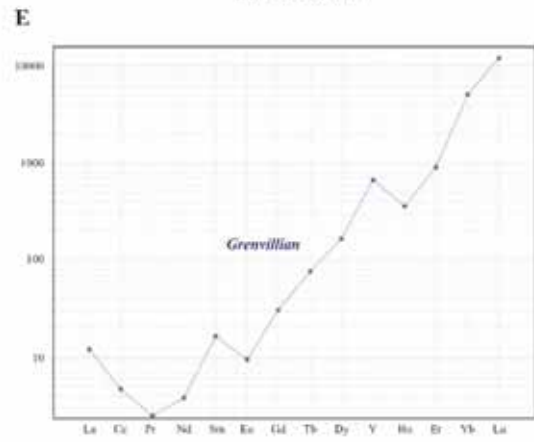
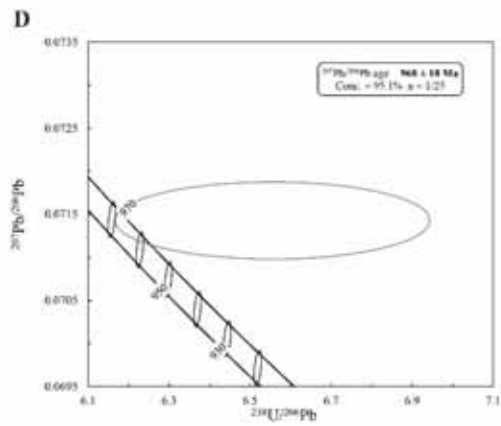
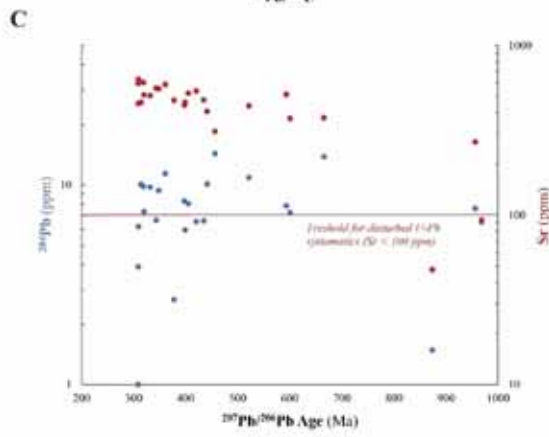
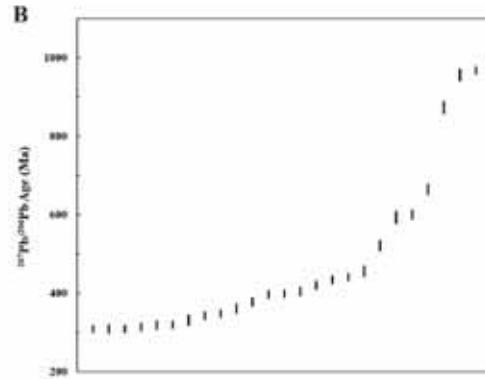
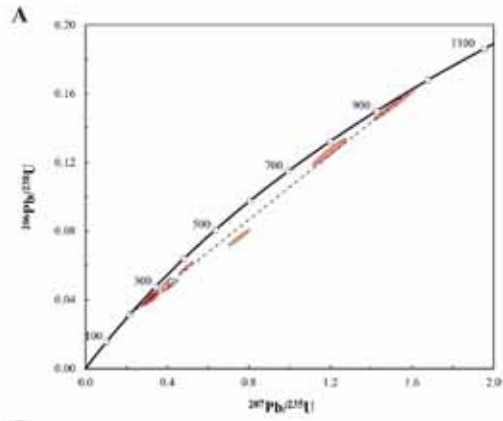
Pegmatite 27 – Xenotime



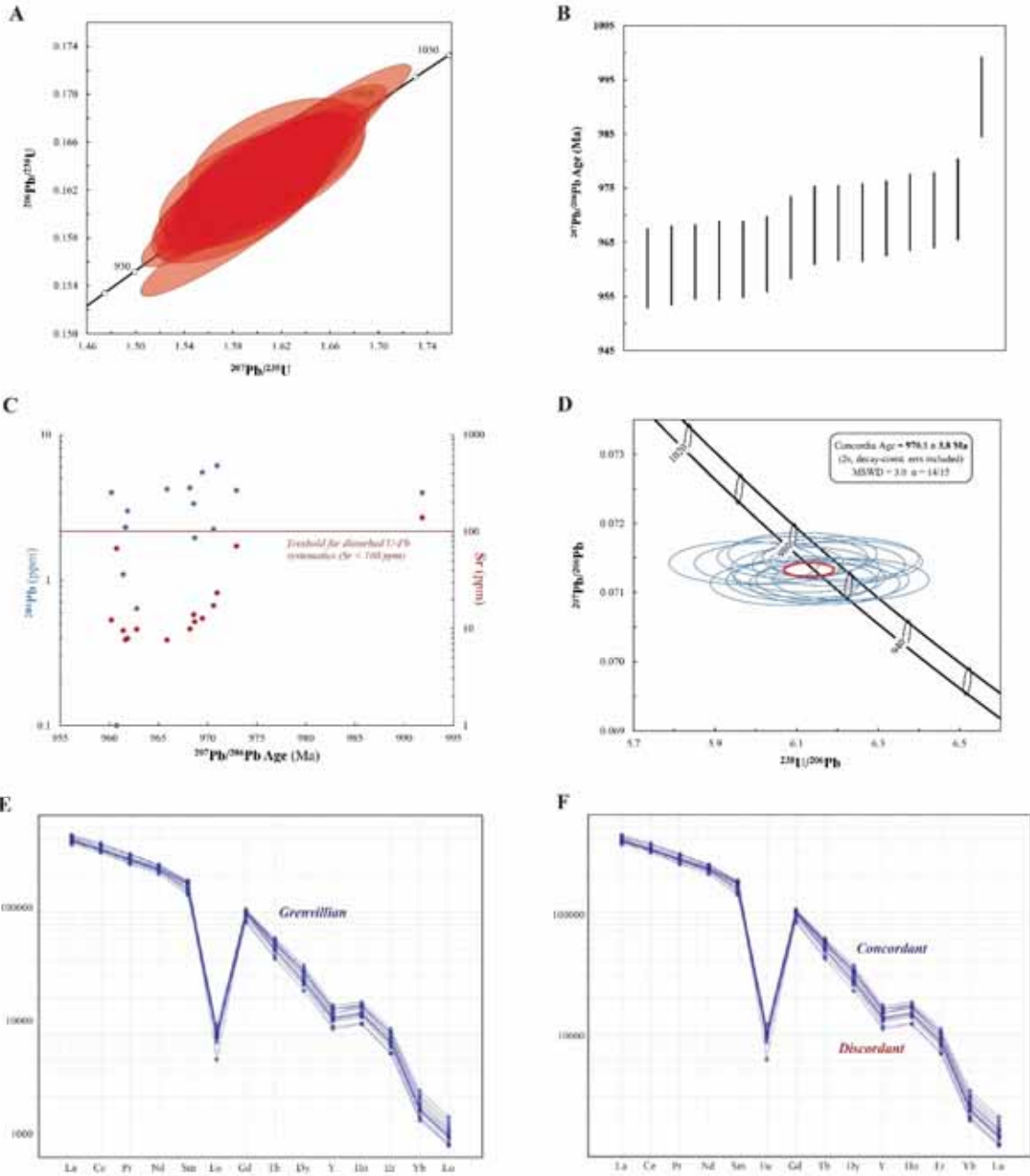
Pegmatite 27 – Zircon



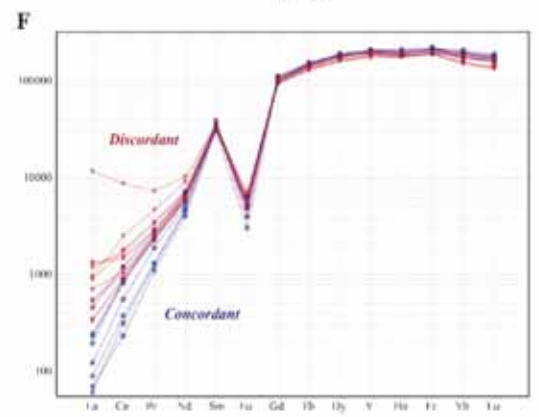
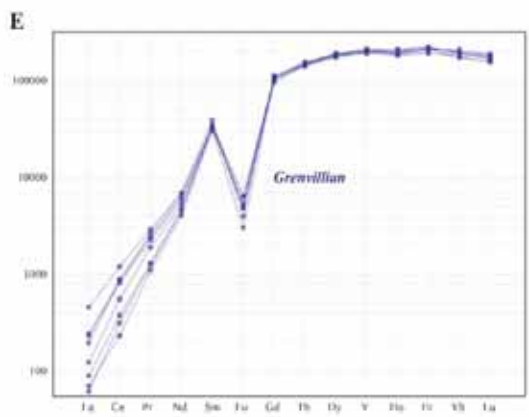
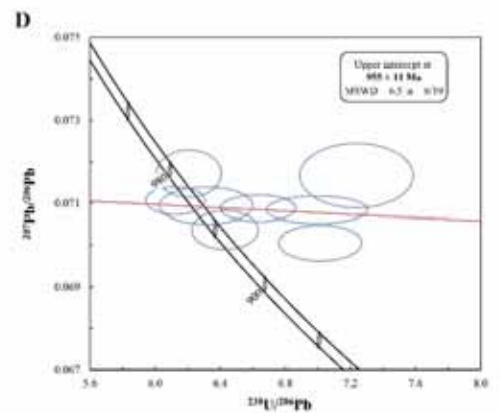
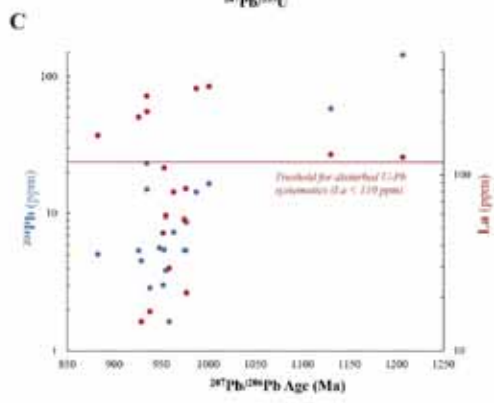
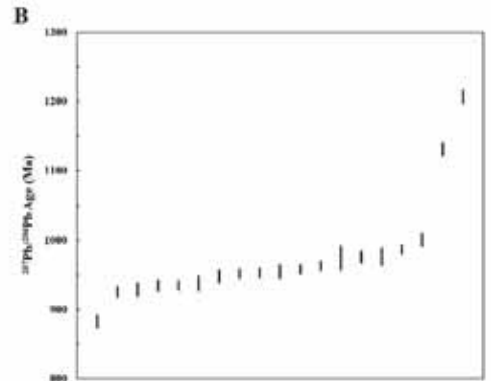
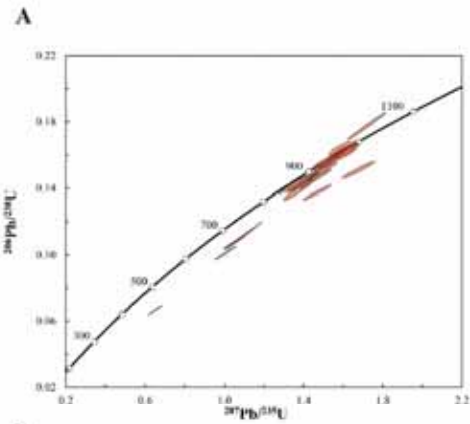
Pegmatite 29 – Zircon



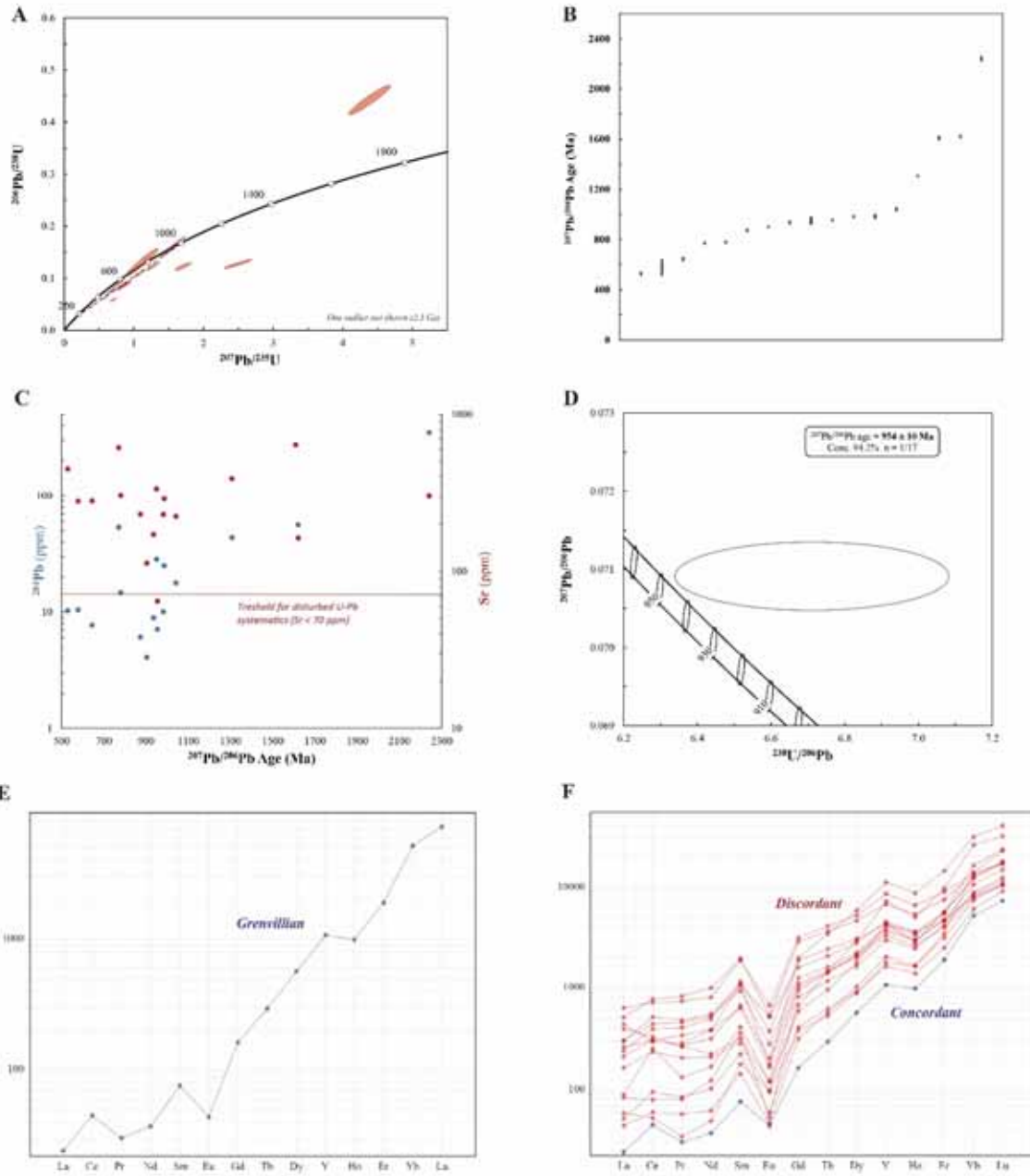
Pegmatite 32 – Monazite



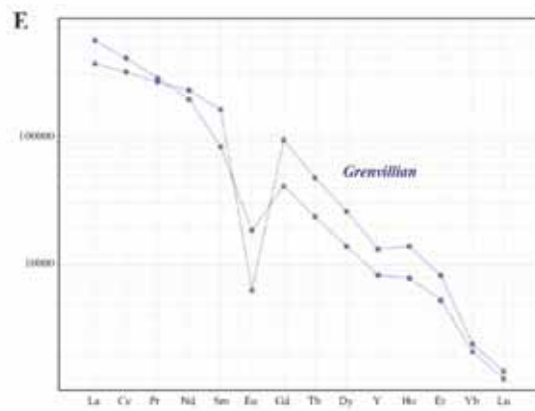
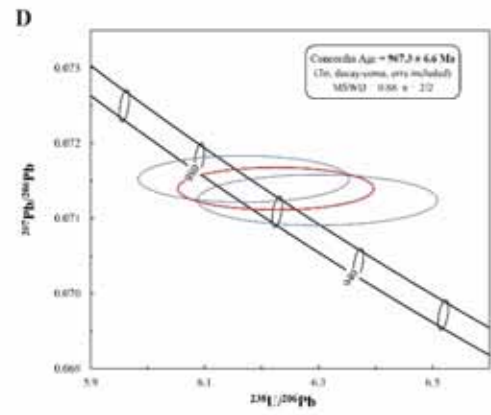
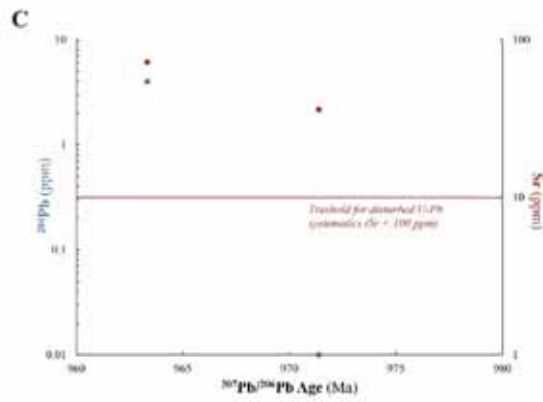
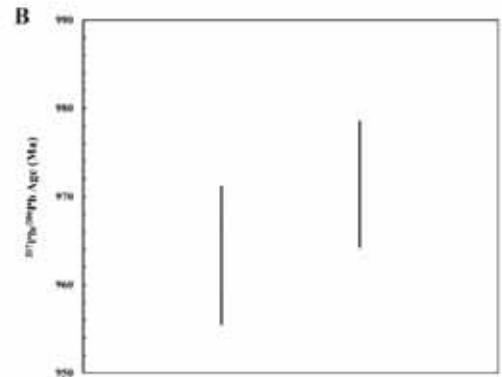
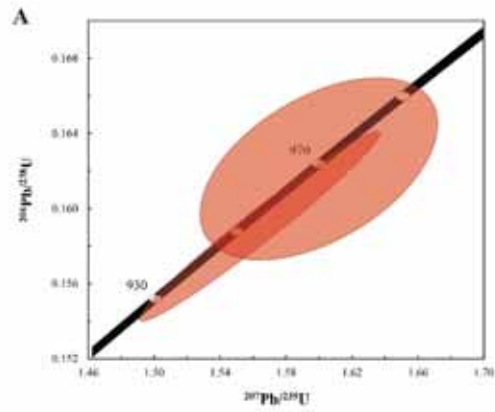
Pegmatite 32 – Xenotime



Pegmatite 32 – Zircon



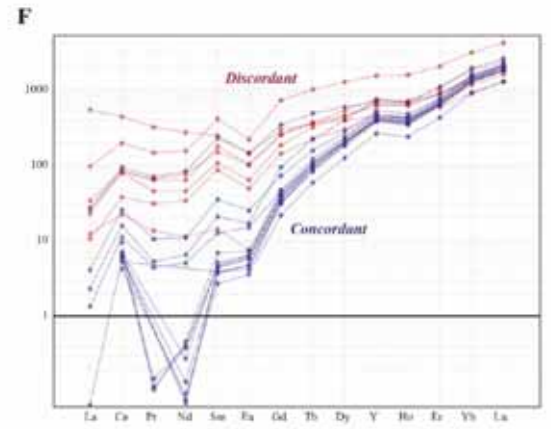
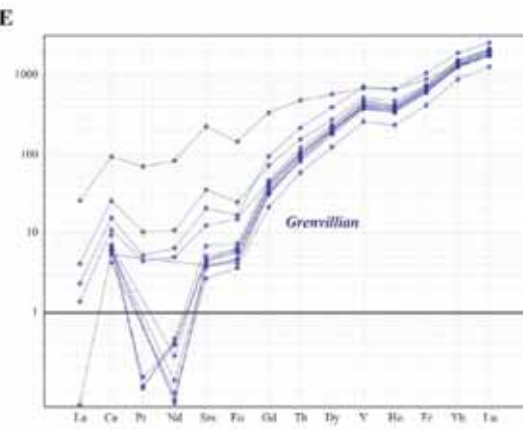
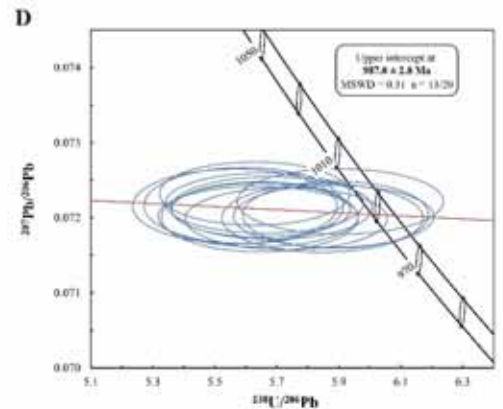
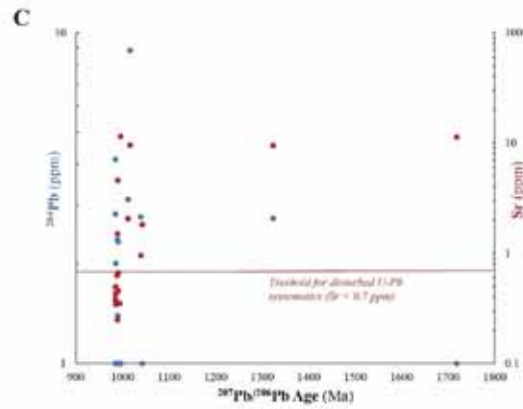
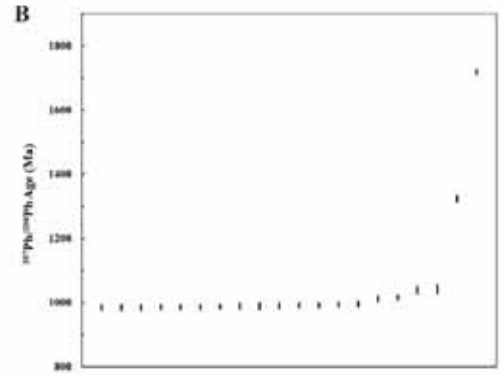
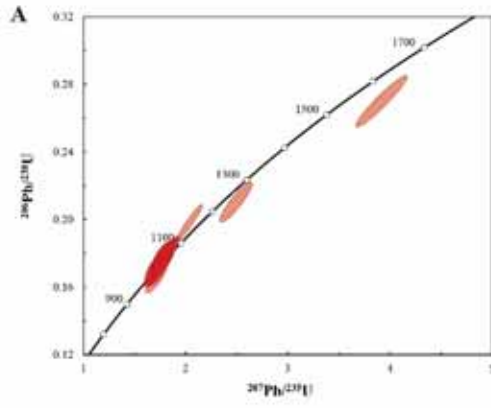
Pegmatite 38 – Monazite



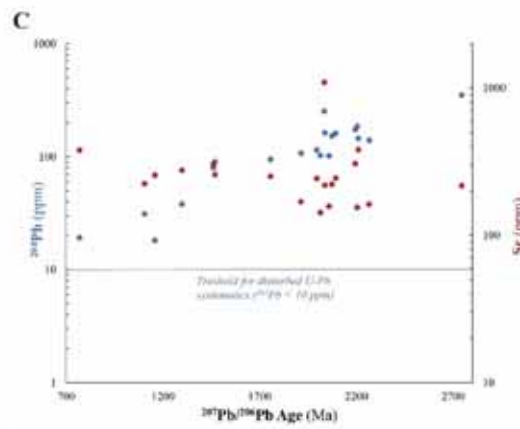
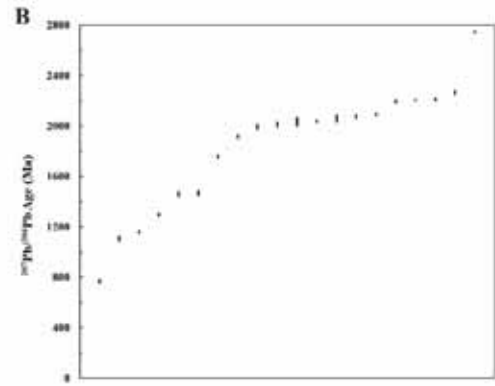
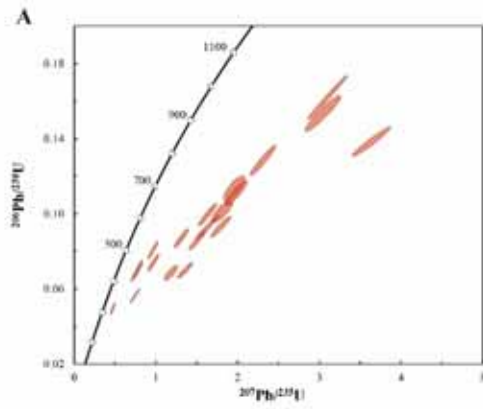
F

No discordant monazite present.

Pegmatite 38 - Zircon



Pegmatite 39 – Zircon

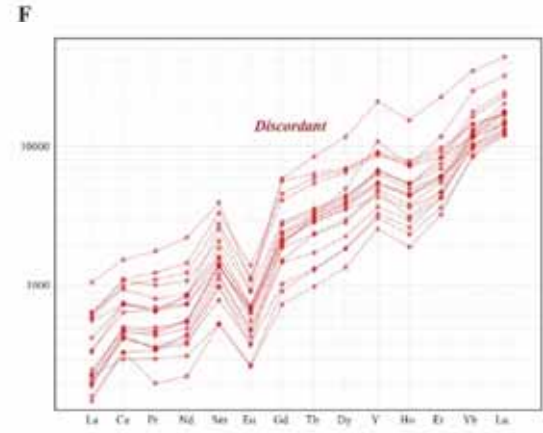


D

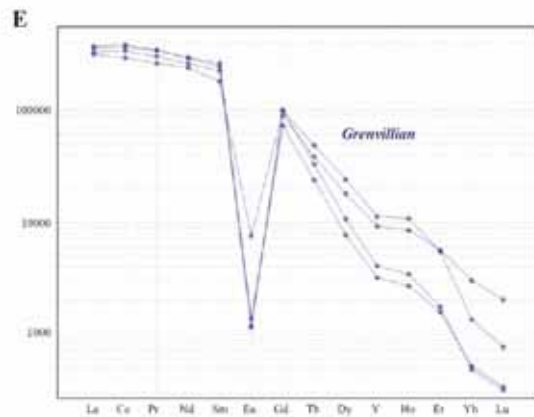
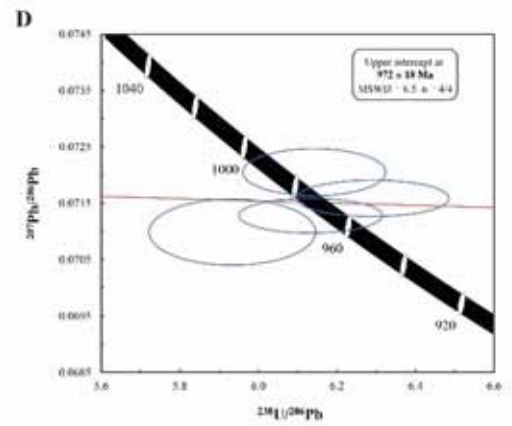
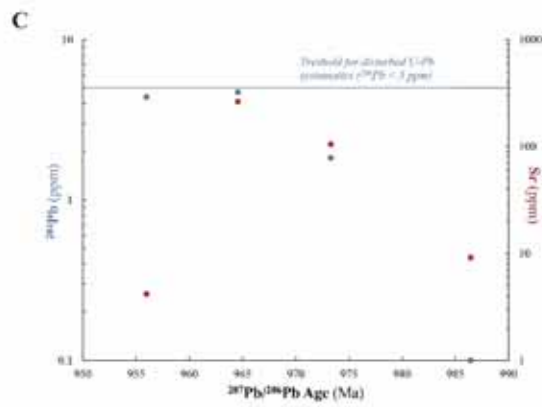
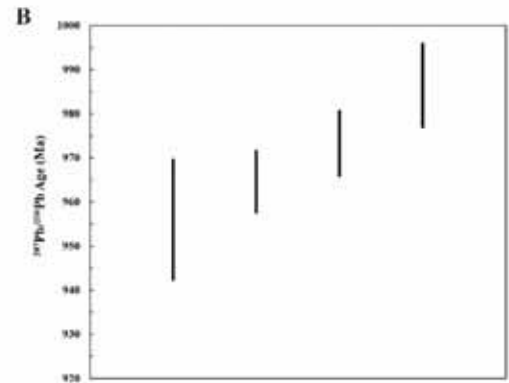
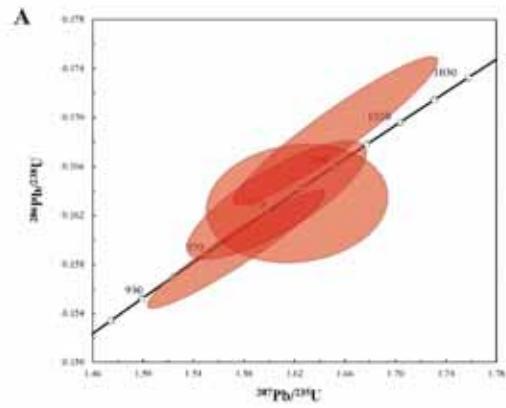
No concordant zircon present.

E

No concordant zircon present.



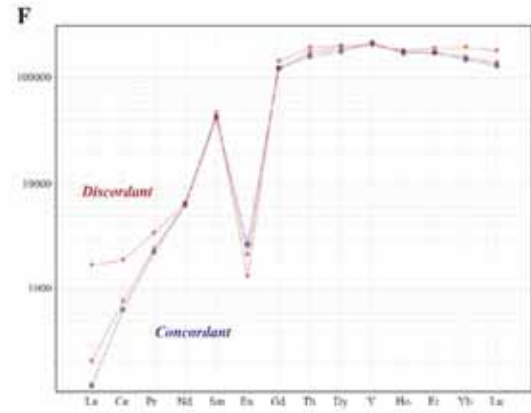
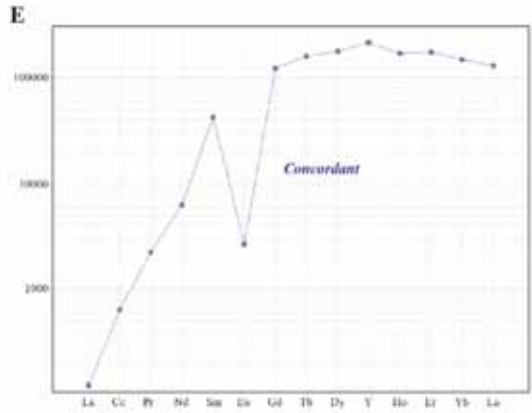
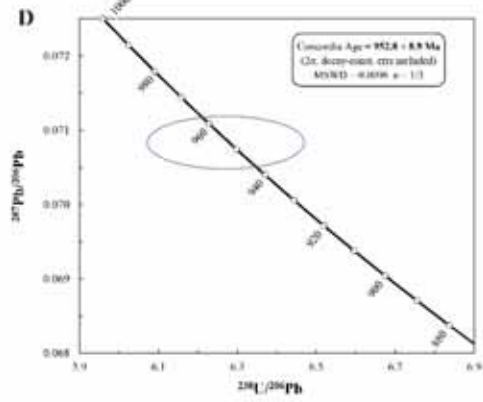
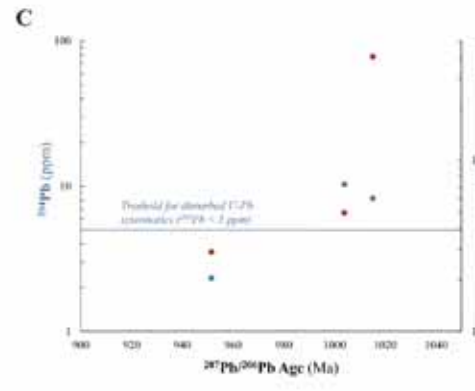
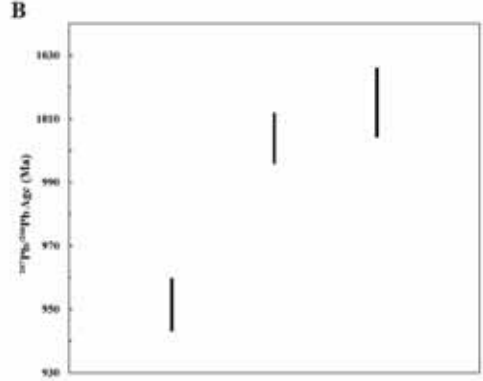
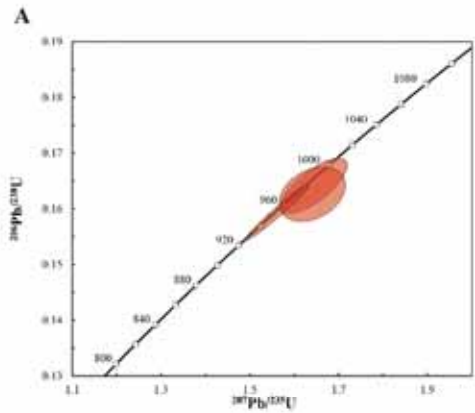
Pegmatite 43 – Monazite



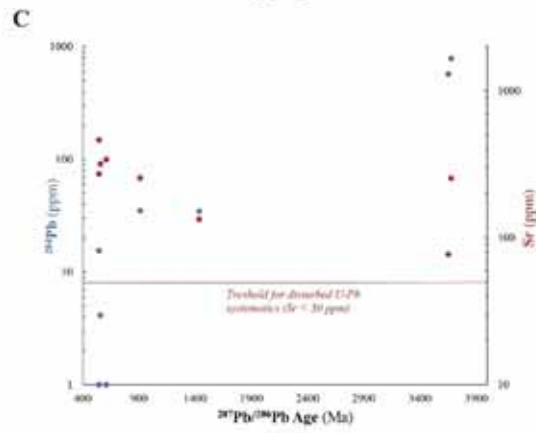
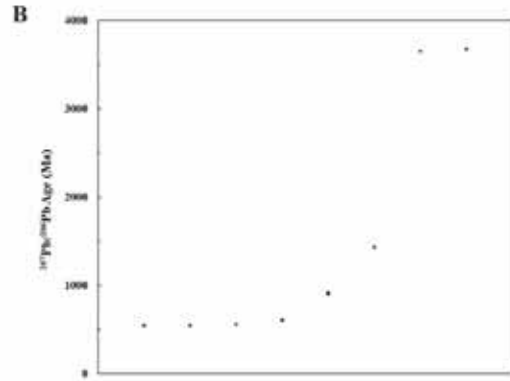
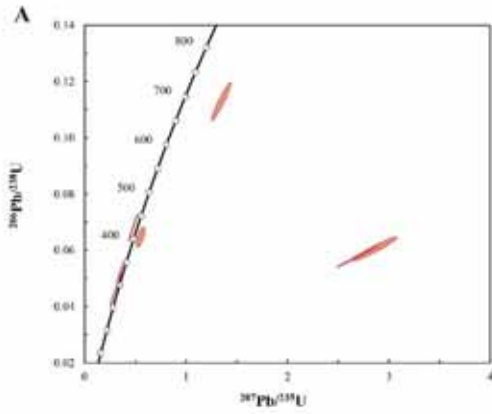
F

No discordant monazite present.

Pegmatite 43 – Xenotime



Pegmatite 43 – Zircon

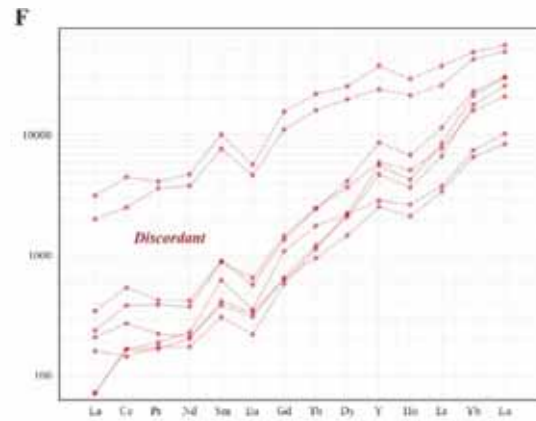


D

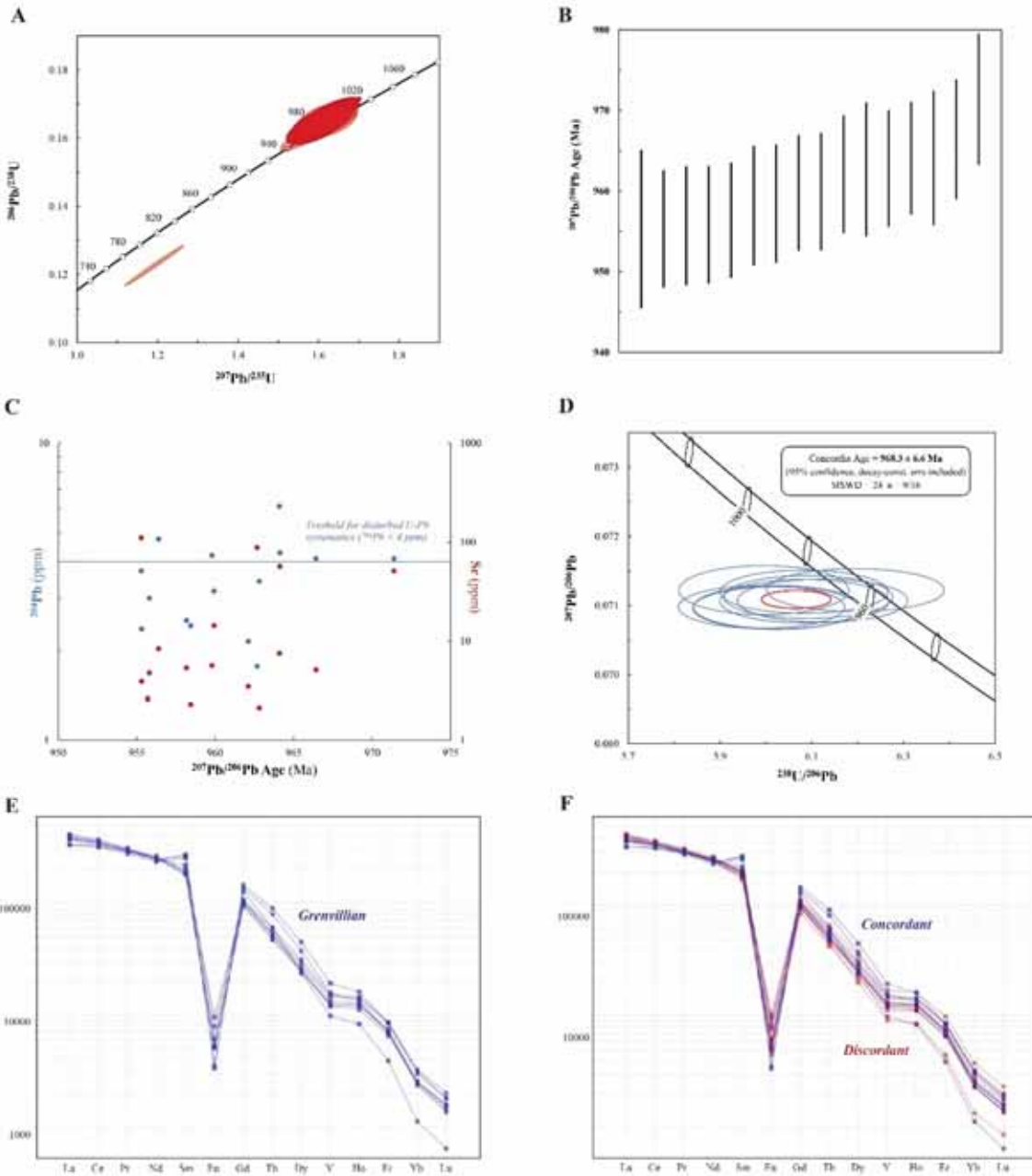
No concordant zircon present.

E

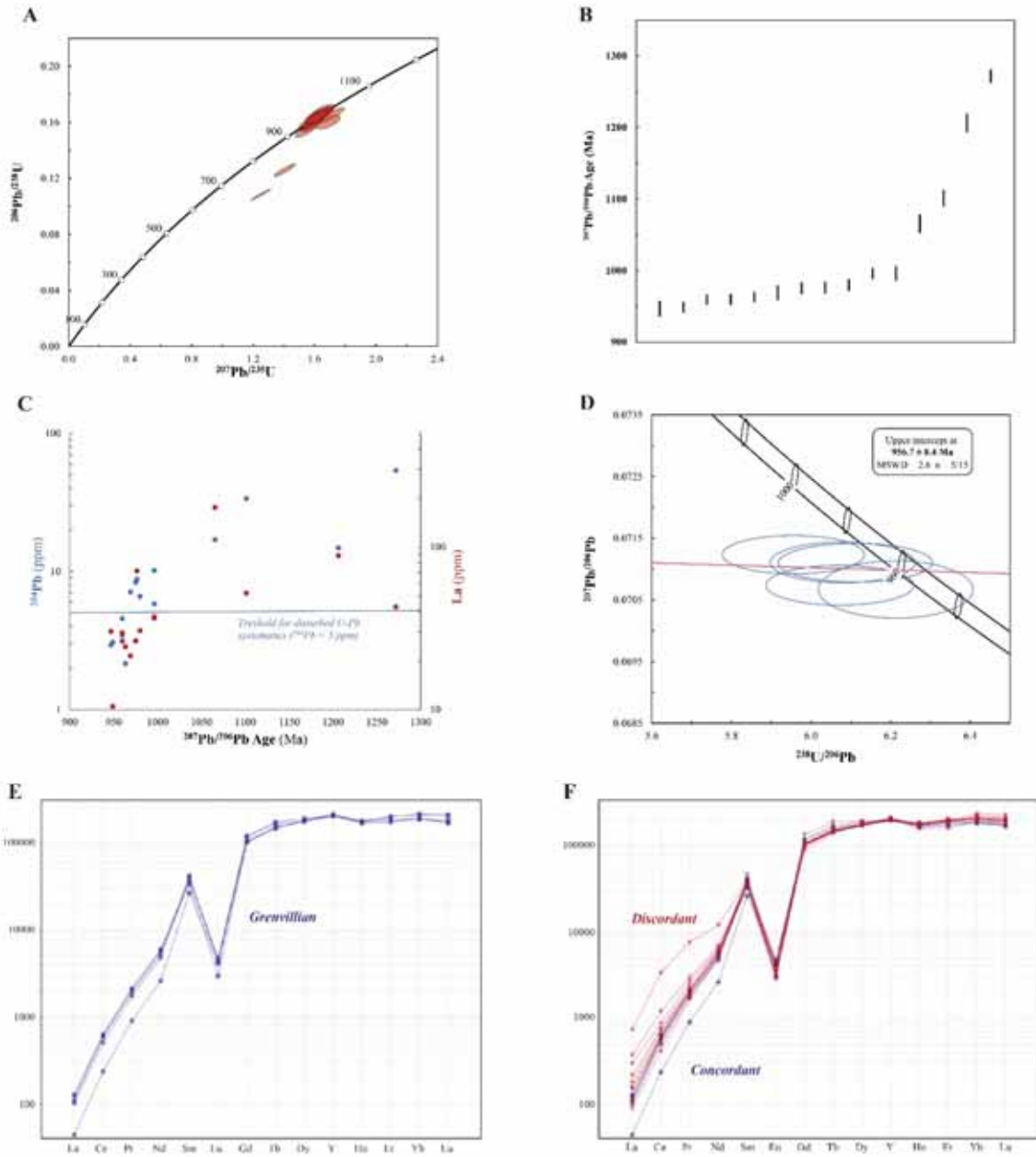
No concordant zircon present.



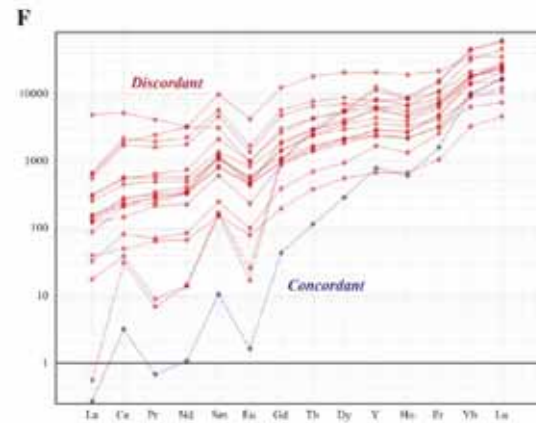
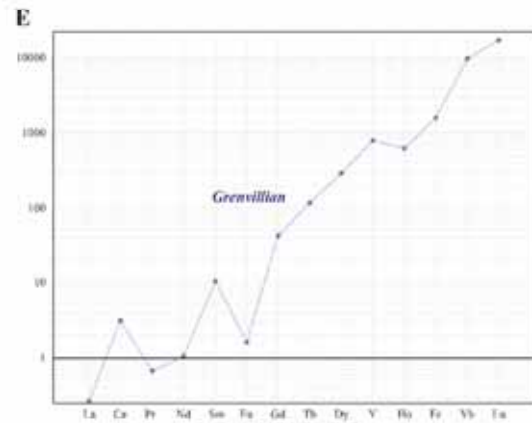
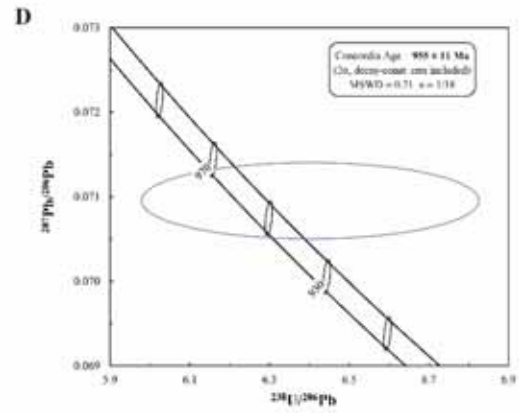
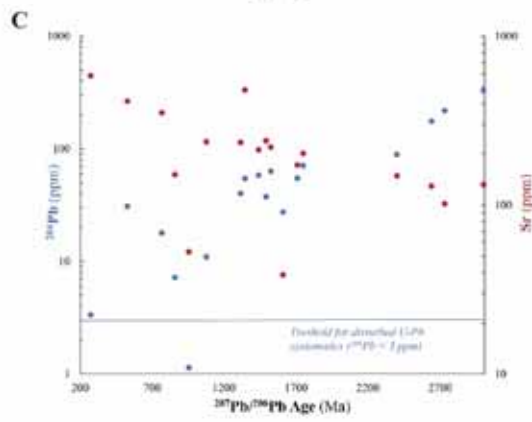
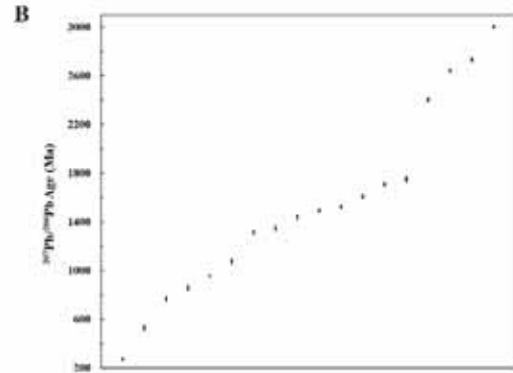
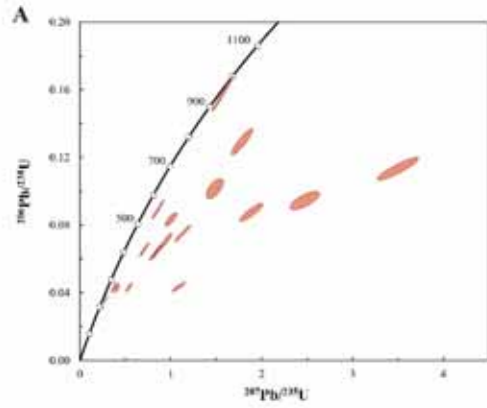
Pegmatite 45 – Monazite



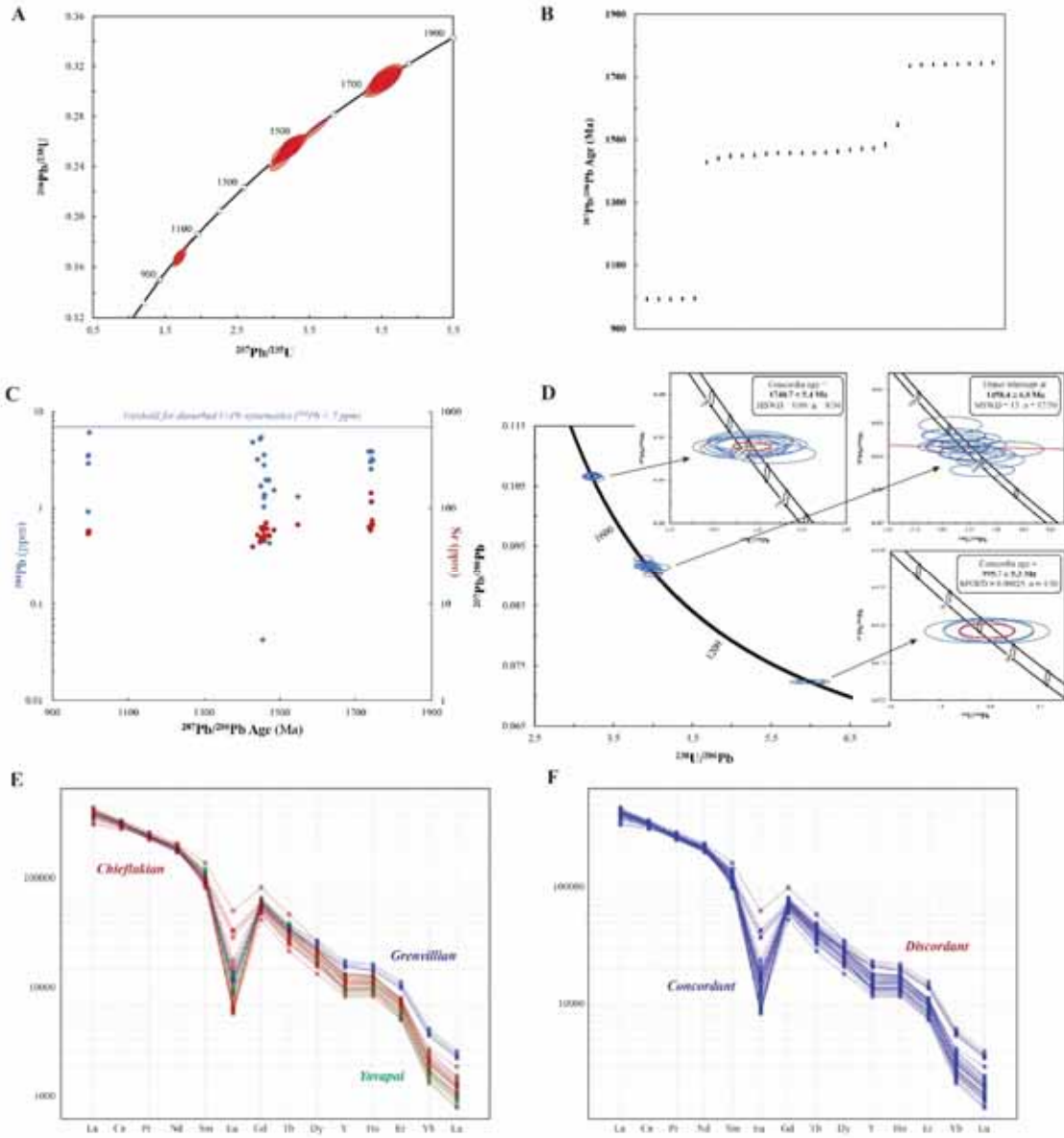
Pegmatite 45 – Xenotime



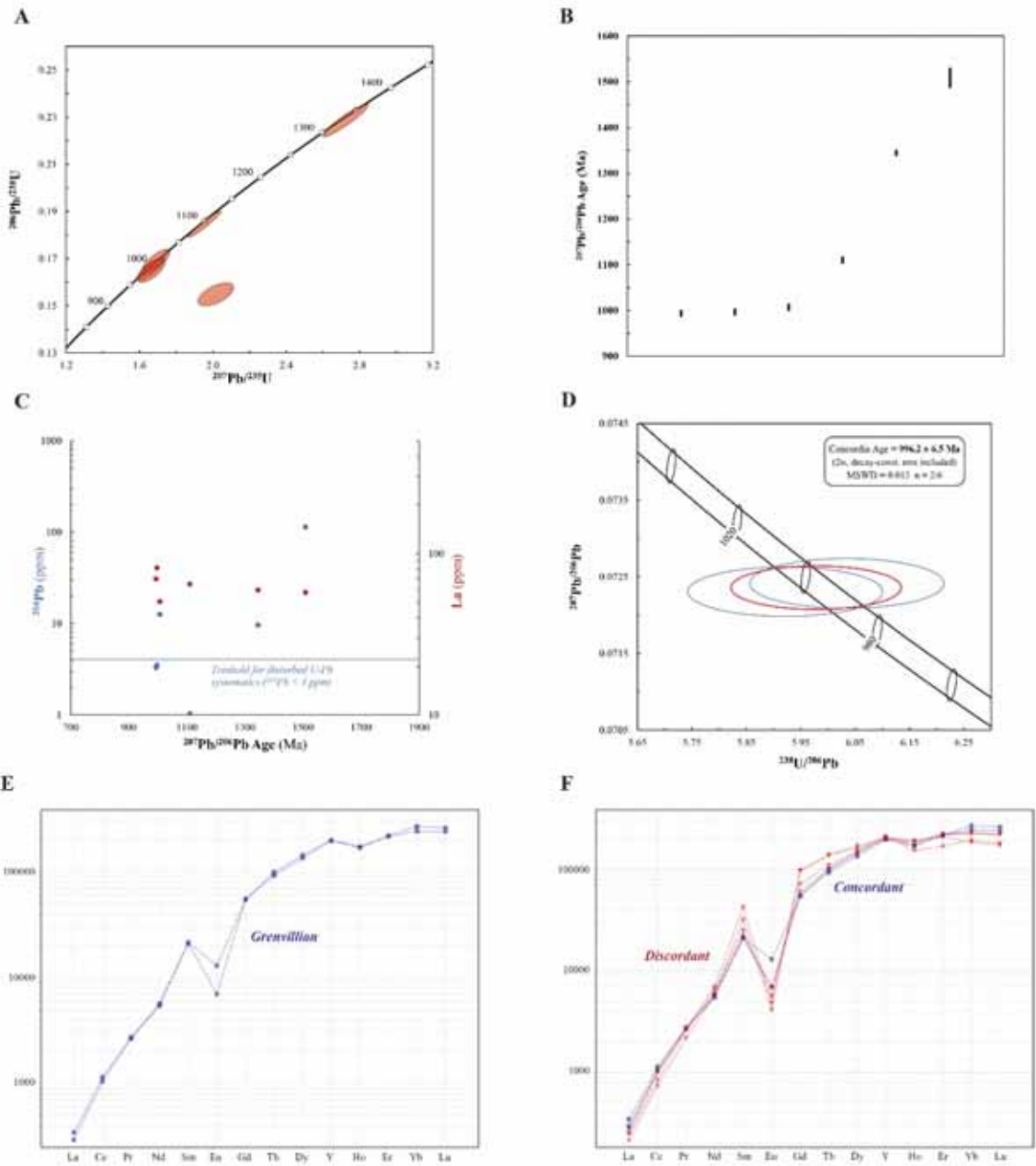
Pegmatite 45 – Zircon



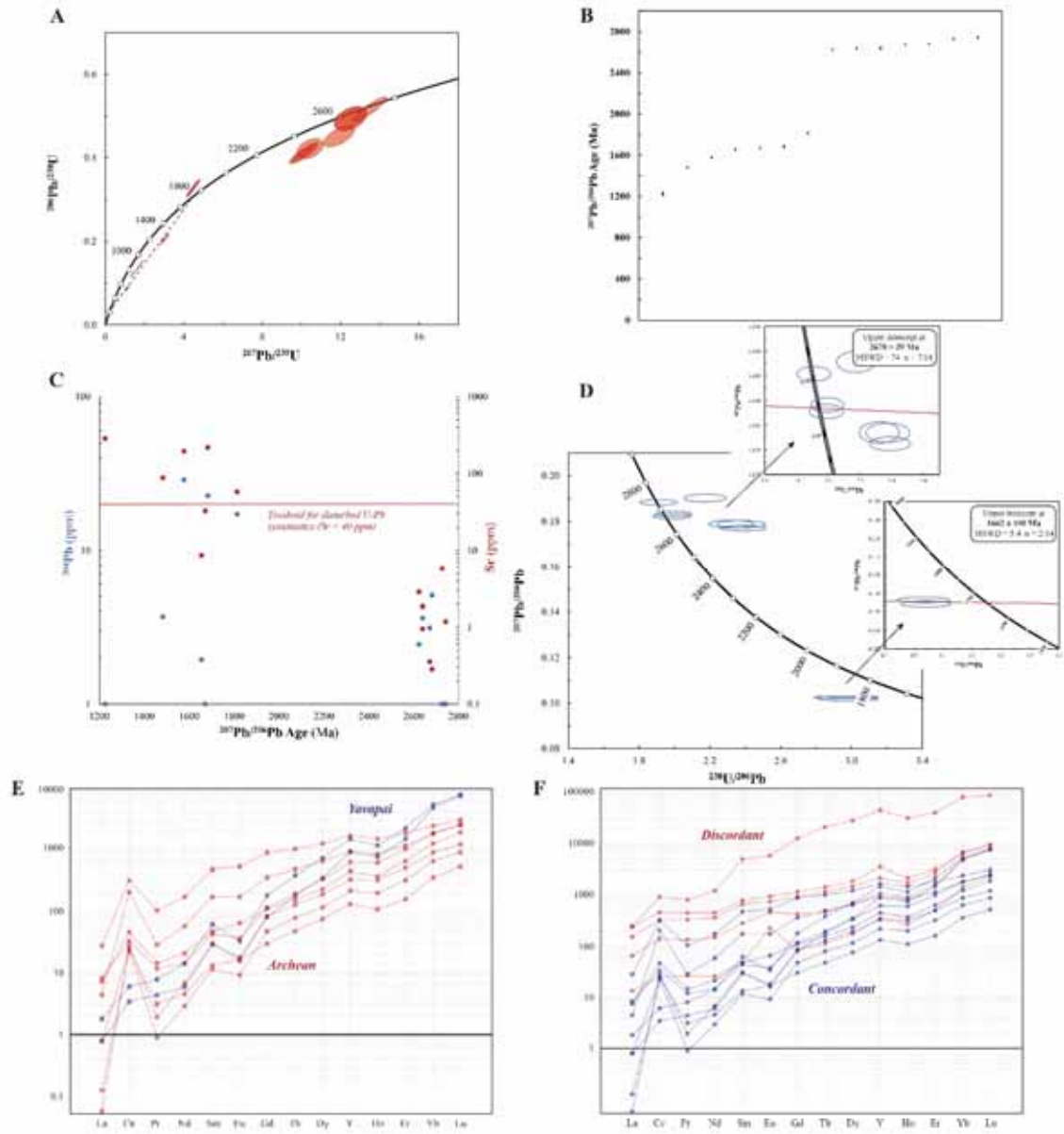
Pegmatite 47 – Monazite



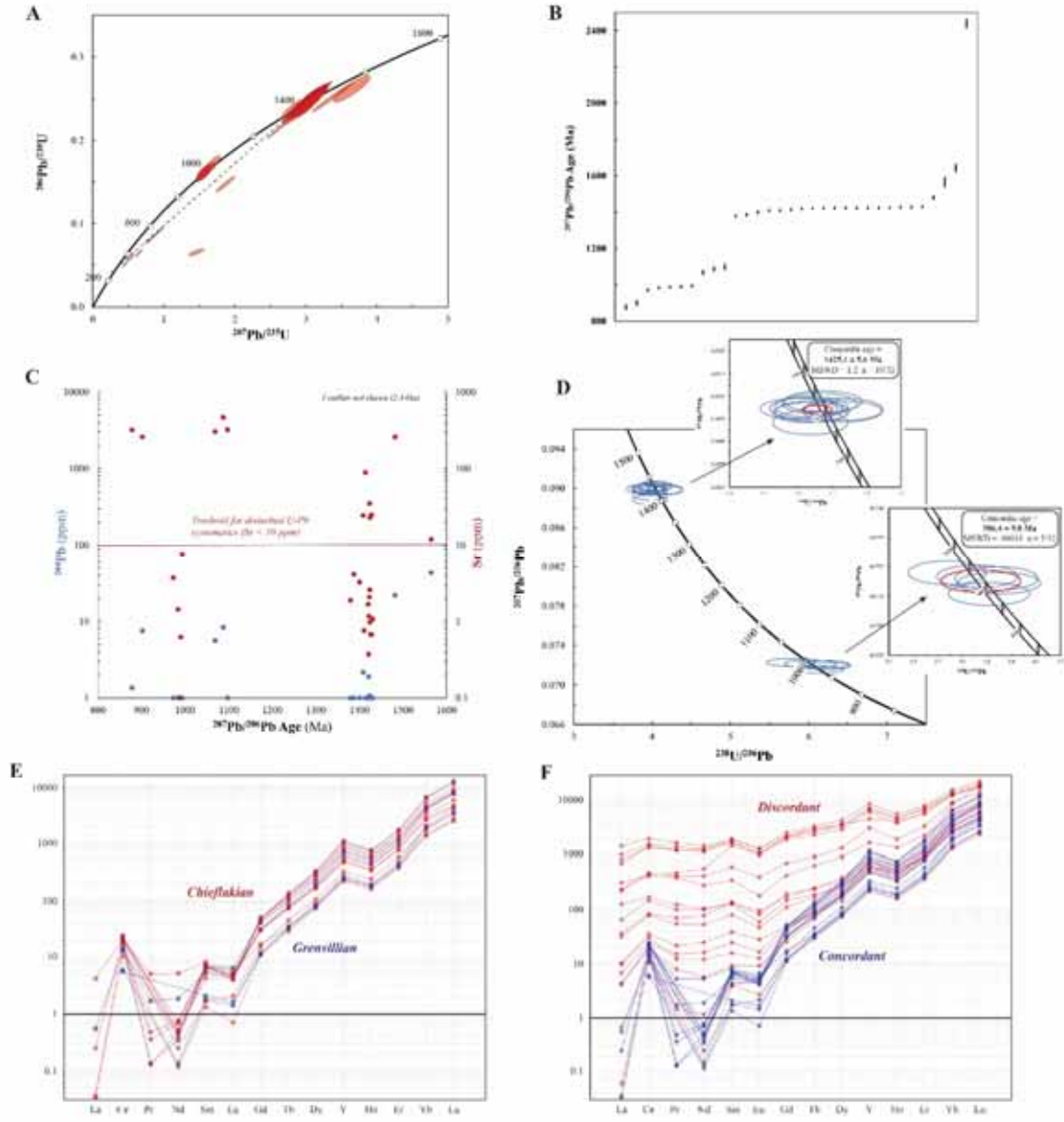
Pegmatite 47 – Xenotime



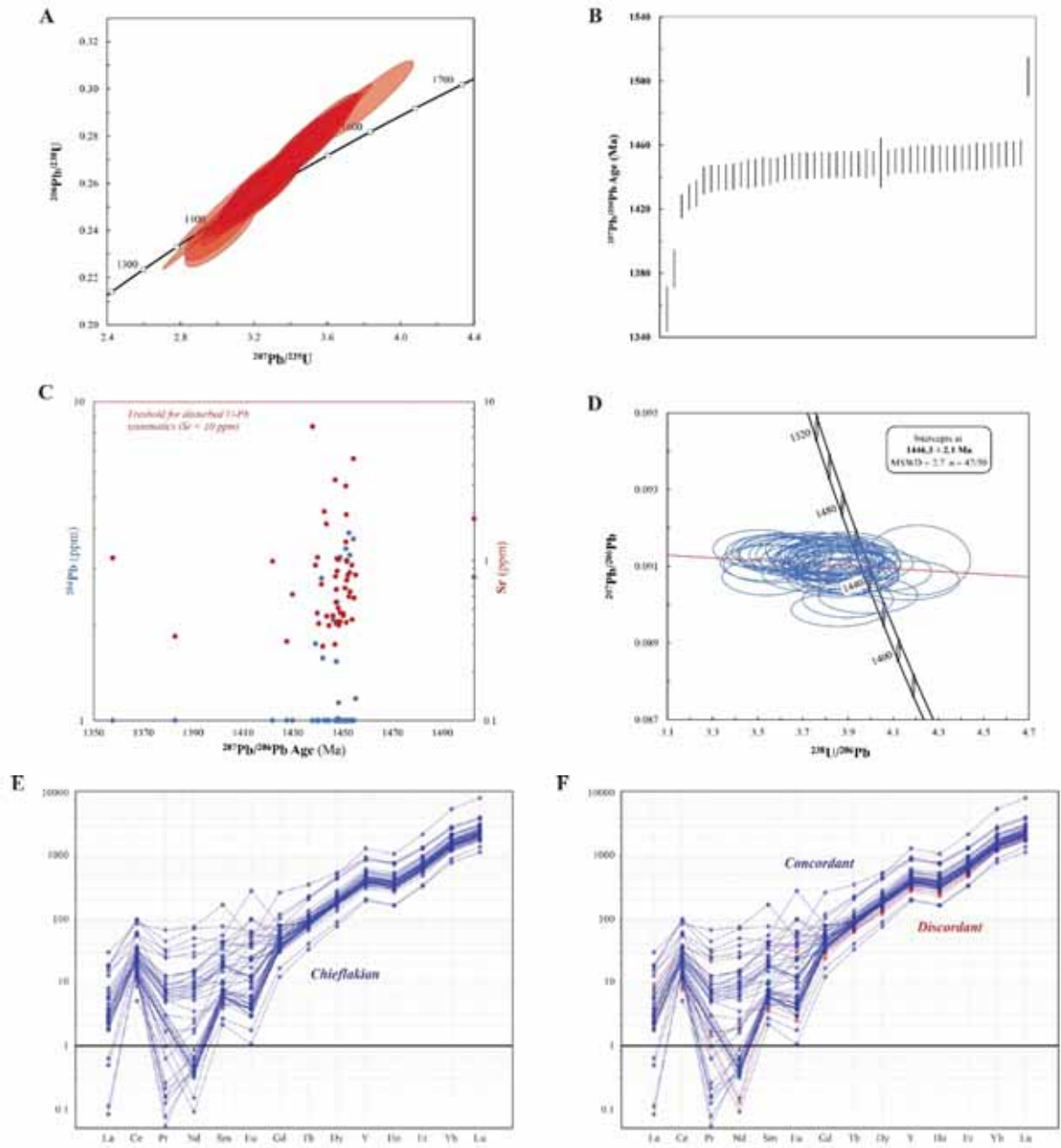
Pegmatite 47 – Zircon



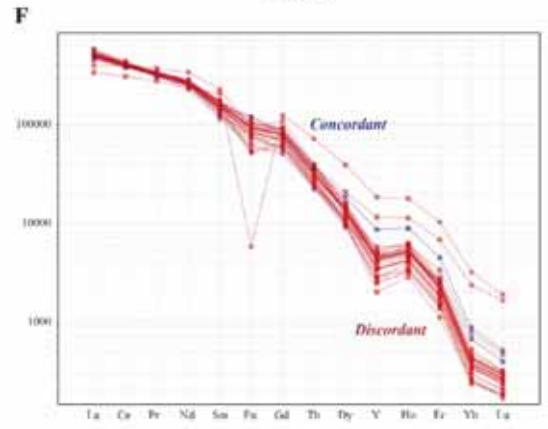
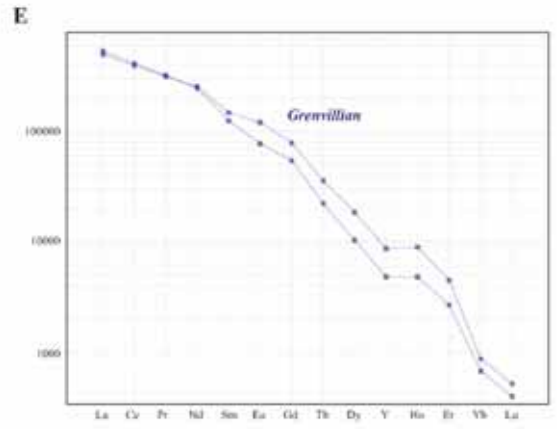
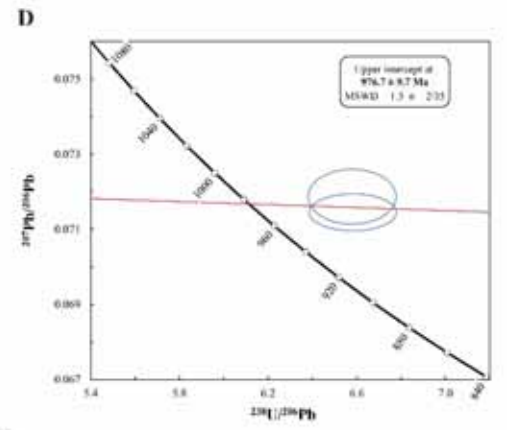
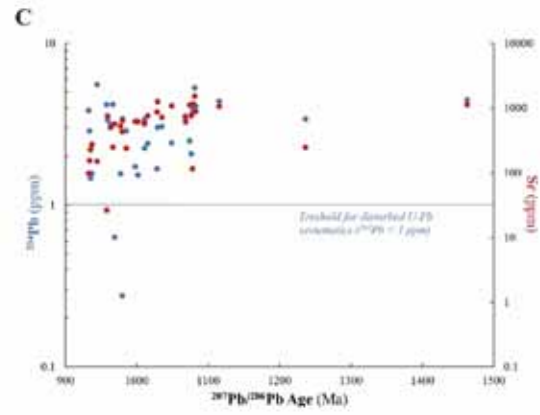
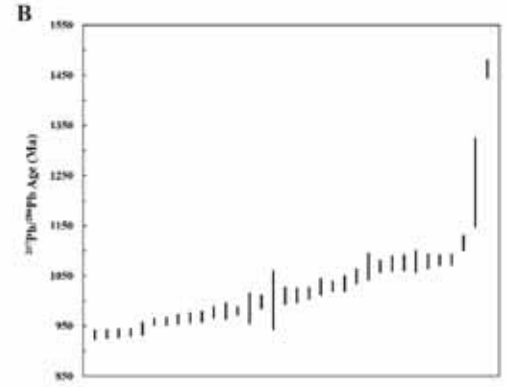
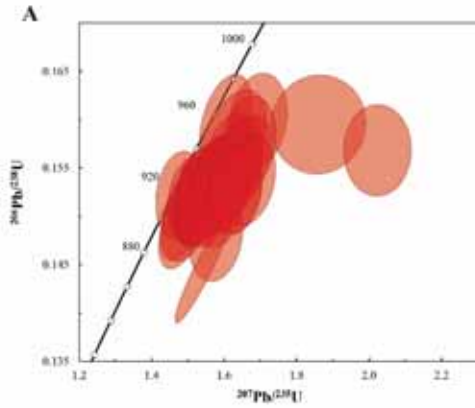
Pegmatite 49 – Zircon



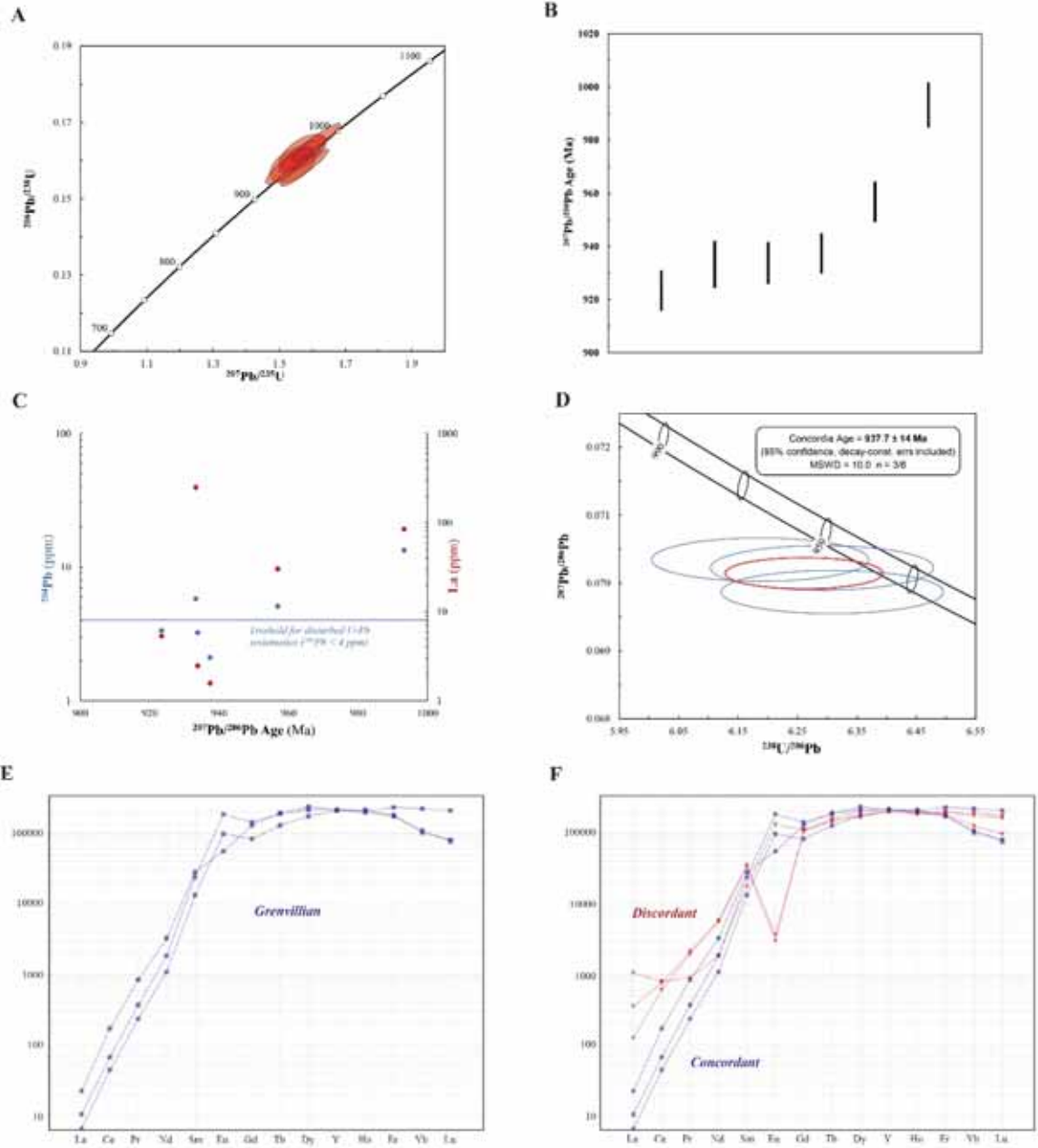
Pegmatite 51 – Zircon



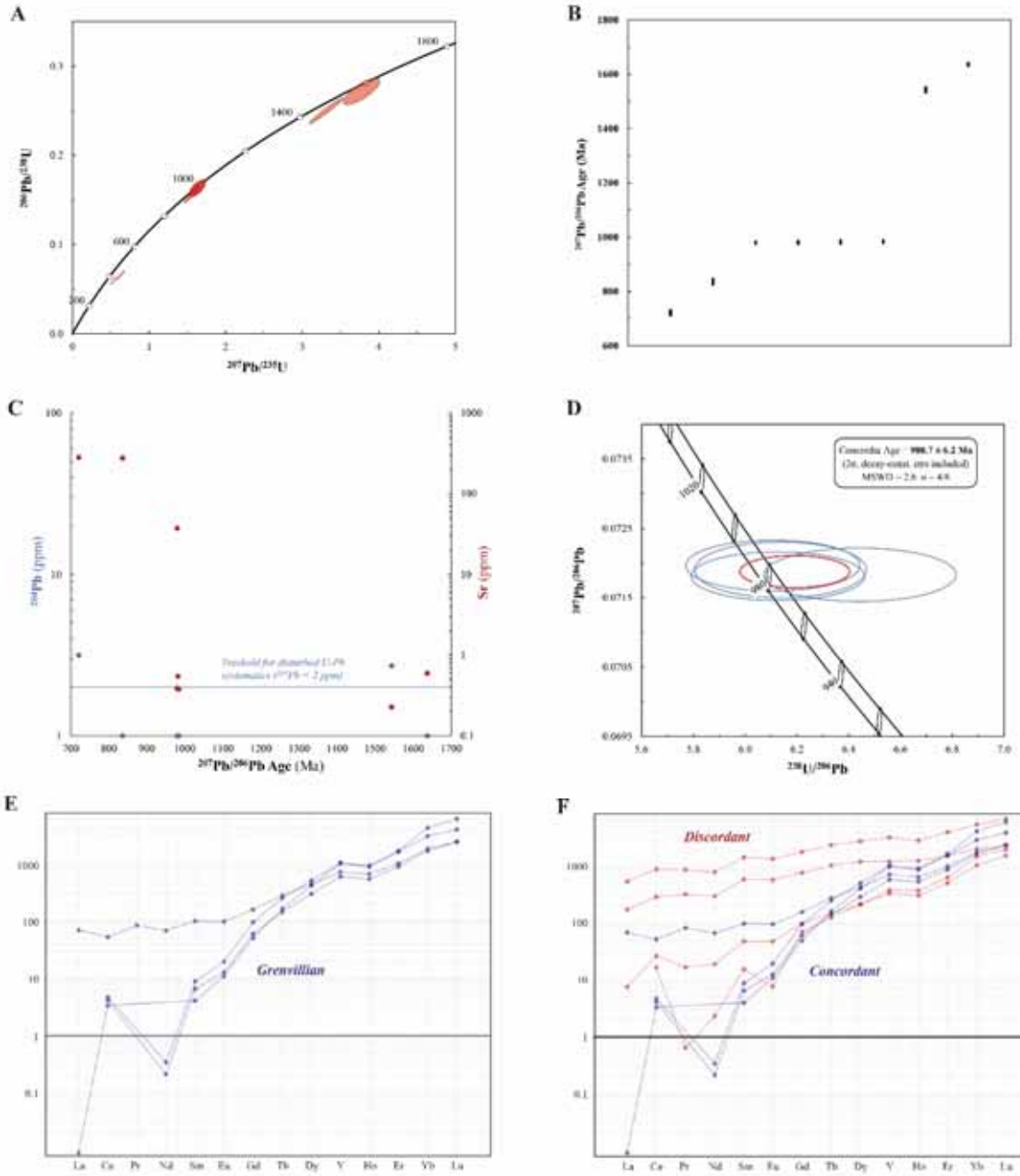
Pegmatite 52B – Monazite



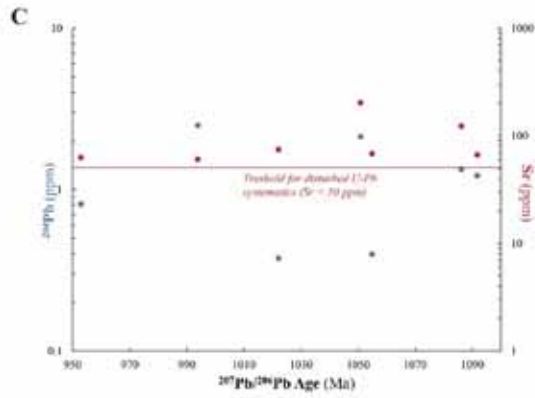
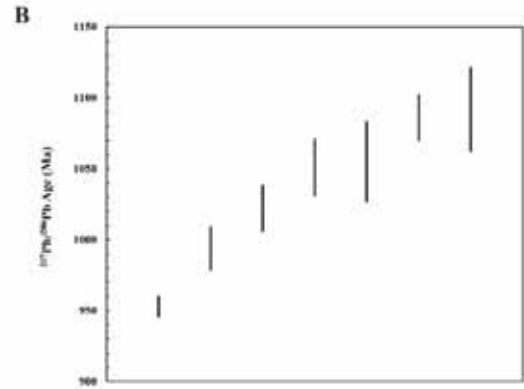
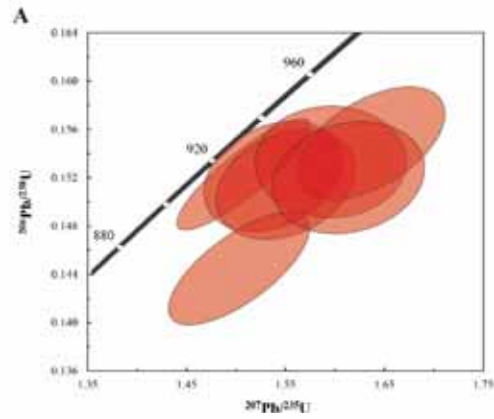
Pegmatite 52B – Xenotime



Pegmatite 52B – Zircon



Pegmatite 53 – Monazite

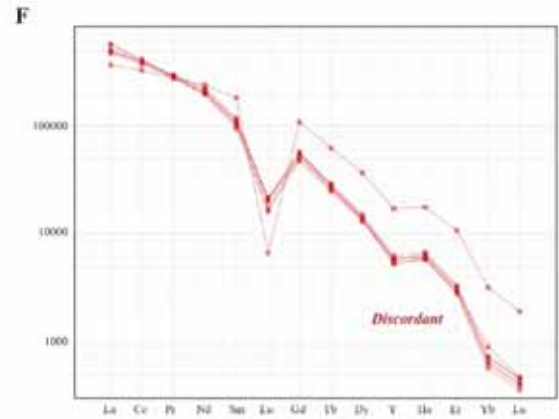


D

No concordant monazite present.

E

No concordant monazite present.



Pegmatite 53 – Zircon

