

Figure S1. XRF elemental maps

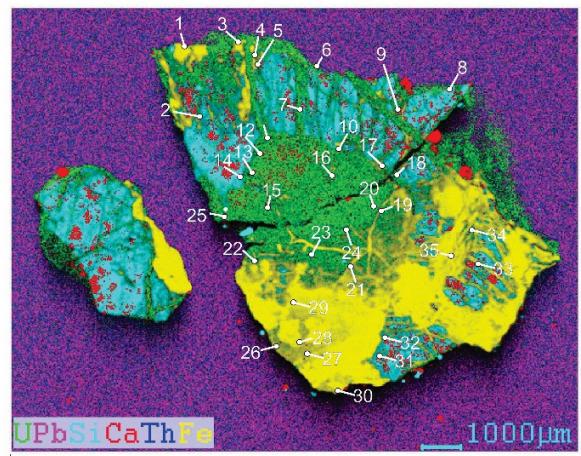
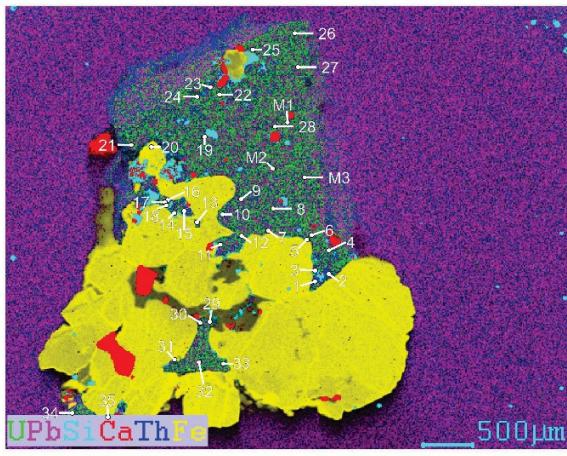
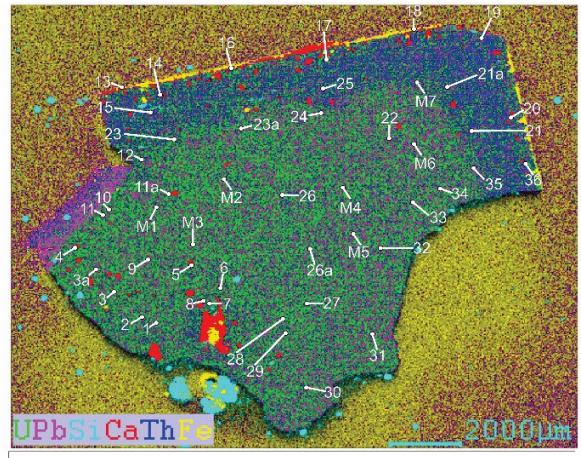
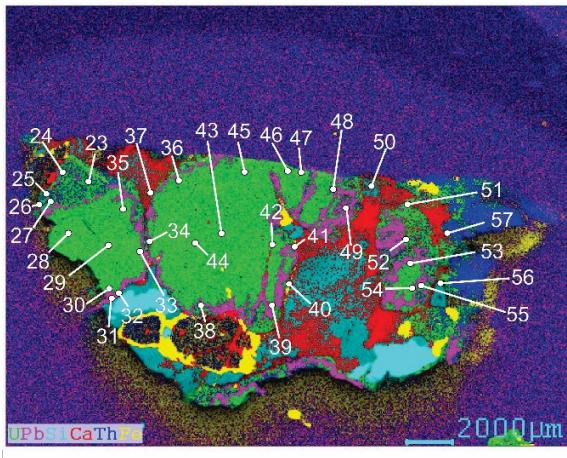


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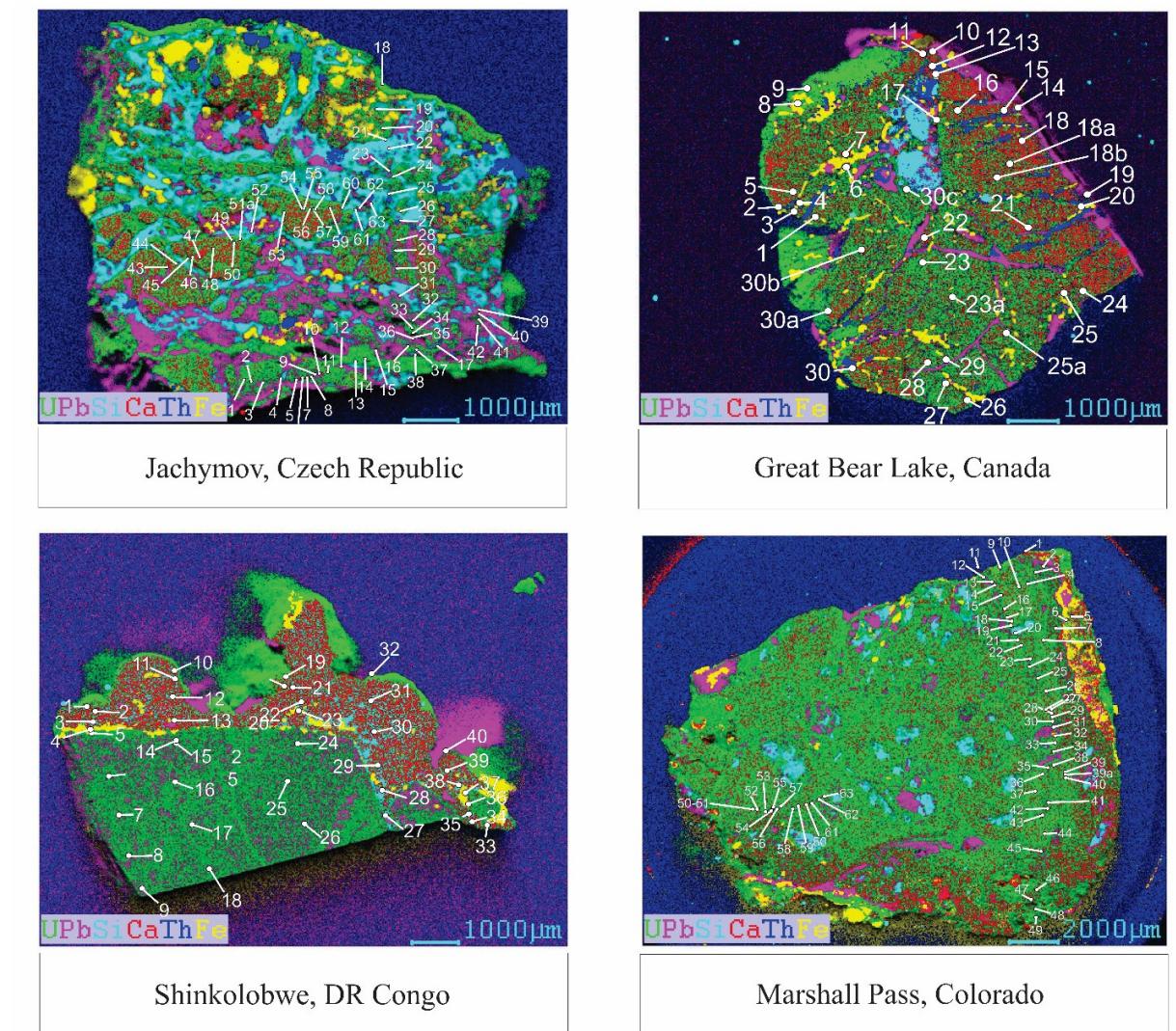
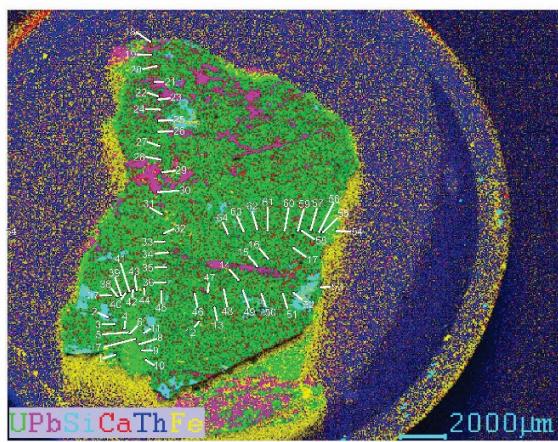
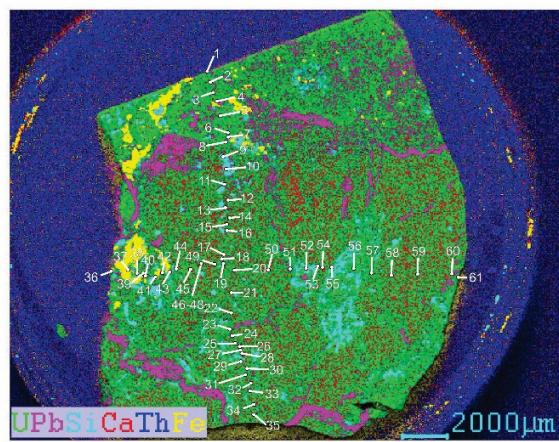


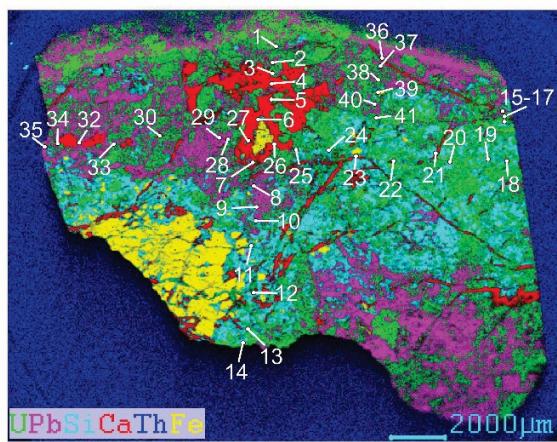
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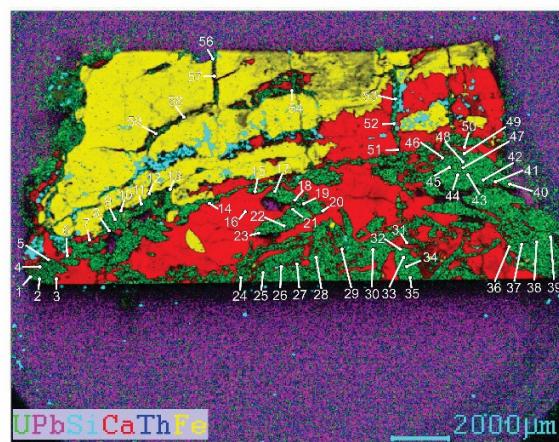
Northern Territory, Australia (top)



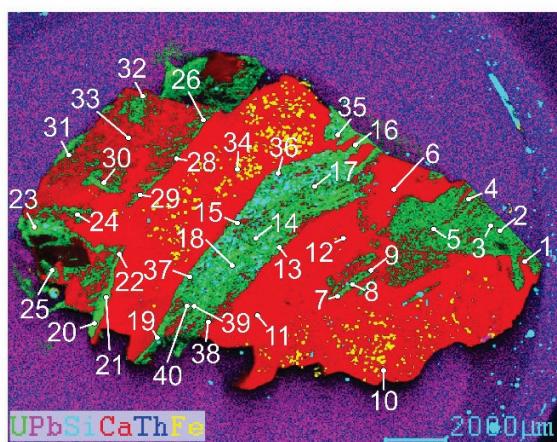
Northern Territory, Australia (bottom)



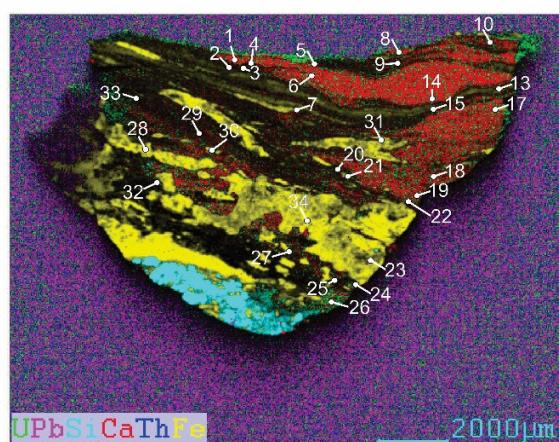
Rabbit Lake, Saskatchewan, Canada



Adair Mine, Cane Spring Canyon, Utah



Big Indian Wash, Utah



Happy Jack, Utah

Figure S2. CN-REE Patterns

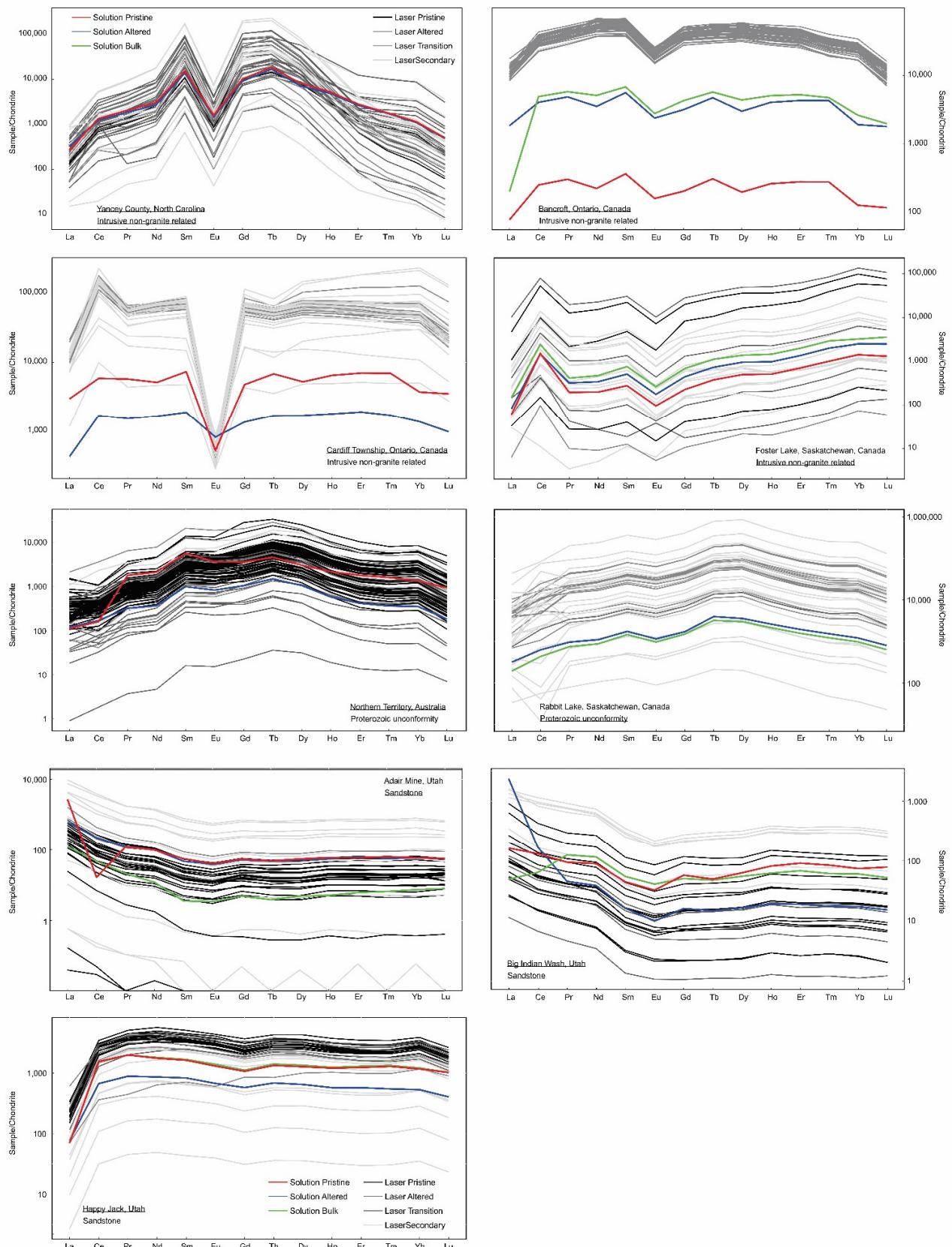


Figure S3. U-Pb concordia diagrams

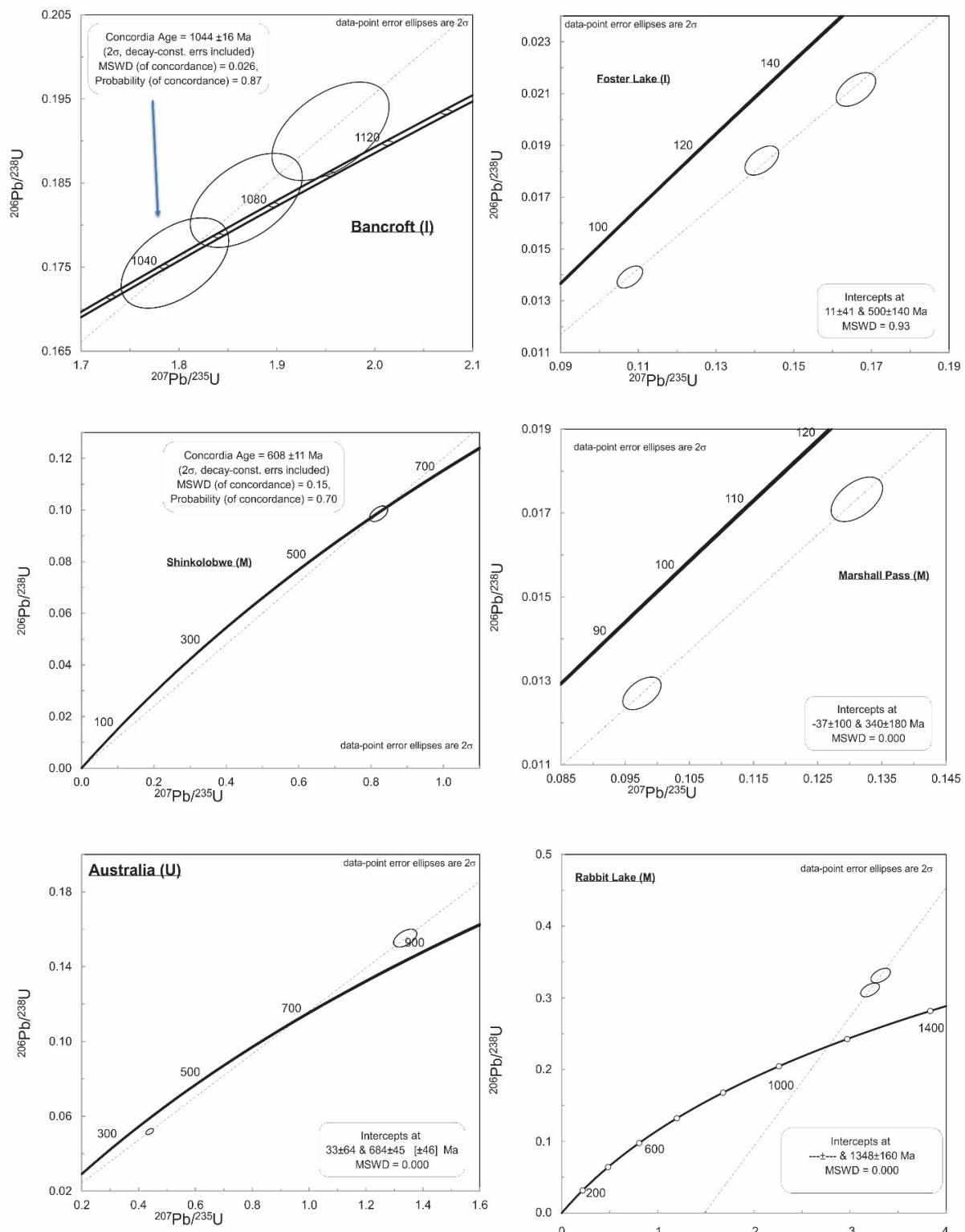


Figure S3. U-Pb concordia diagrams

