

APPENDIX 8. WDS spectra data from the Cameca SX-100 electron microprobe.

Each sample is listed with the most likely mineral identification based on the composition (name can be found below spectra). Samples are grouped by intrusion and further grouped by mineral type. Table 8-1 is a summary of the samples and identified minerals. Formulas for mineral species are in Table 3 of the main report.

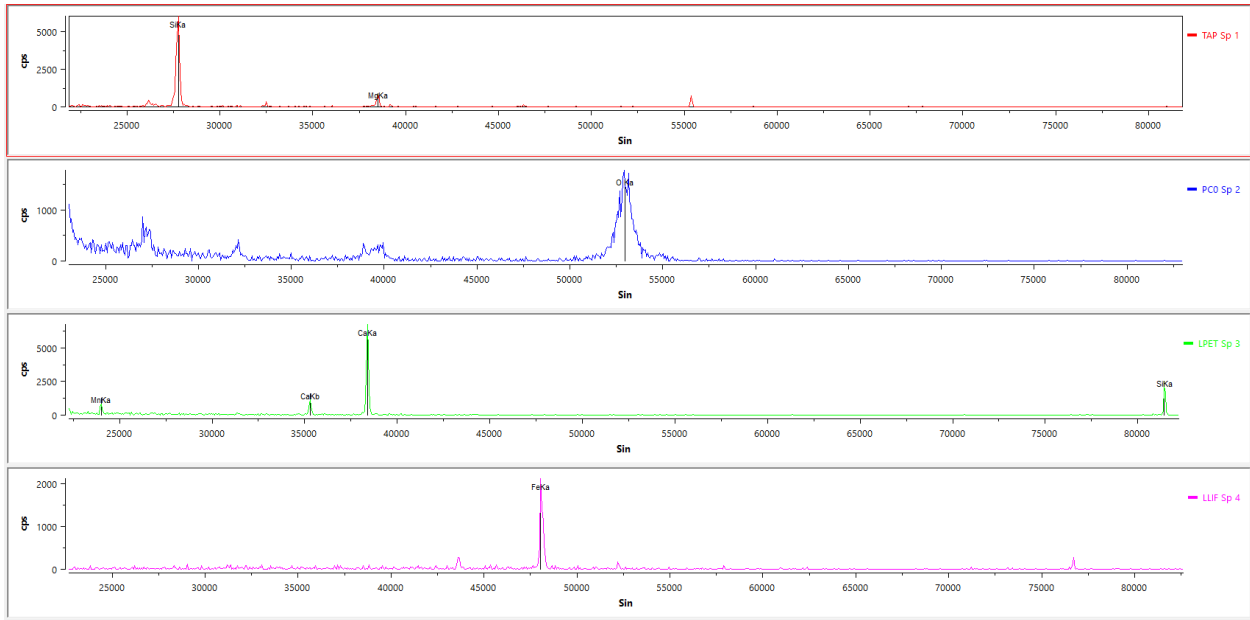
TABLE 8-1. Summary of mineral species identified by WDS. Latitude and longitude are in NAD27. *=whole rock chemistry in Appendix 4.

| Sample No. | Latitude | Longitude | Locality, map unit | Minerals identified |
|------------|-------------|--------------|--|--|
| CORN79* | 32.03786131 | -105.5356542 | East Chess Draw nepheline syenite, PEnc | augite |
| CORN104* | 32.040332 | -105.502815 | Skarn north of Wind Mountain | Aegirine, analcime, k-feldspar, aqualite, pyrochlore |
| CORN108 | 32.022829 | -105.498483 | Skarn west Wind Mountain (Jones) | aegirine, cancrinite, k-feldspar, albite, plagioclase, eudialyte, magnoeudialyte, monazite, hastingsite, oxynatropyrochlore |
| CORN117* | 32.0380377 | -105.55546 | Phonolite east of Flat Top | Titanomagnetite |
| CORN177* | 32.04412722 | -105.5451278 | Northwest Chess Draw augite syenite, PEAs | Augite, Anorthoclase, plagioclase, apatite, biotite, titanite, ilmenite |
| CORN181* | 32.0524952 | -105.531258 | Phonolite dike north of Wind Mountain, PEp | Calderite, pyrolusite |
| CND208* | 31.98449 | -105.52530 | Washburn Mountain nepheline syenite, PEns | Aegirine-augite, K-feldspar |
| CORN226* | 32.067194 | -105.481074 | McVeigh Hills syenite, PEs, PEqs | Aegirine-augite |
| CORN805* | 32.031388 | -105.503856 | Wind Mountain phonolite dike, PEp | K-feldspar, albite, aenigmatite |
| CORN812* | 32.024994 | -105.501797 | Wind Mountain nepheline syenite, PENSP2 | Aegirine, K-feldspar, albite, cancrinite, monazite, vitusite, Manganoeudialyte, Catapleiite, galena, rheniite?, sphalerite, copper sulfide |
| CORN814* | 32.026128 | -105.501646 | Wind Mountain nepheline syenite, PENSP2 | Arfvedsonite |
| CORN20-01* | 32.015389 | -105.522341 | Wind Mountain nepheline syenite, PENSP2 | Aegirine-augite, sodalite, nepheline, k-feldspar, manganoeudialyte, calciocatapleiite, monazite, bastnäsite, oxynatropyrochlore |
| CORN20-10* | 32.033751 | -105.543351 | South Chess Draw nepheline syenite, PEnc | Augite, analcime, biotite, plagioclase, bastnäsite, titanomagnetite |
| CORN20-12* | 32.039244 | -105.545798 | Chess Draw breccia dike, PEbx | Calciocatapleiite, quartz |
| CORN20-34* | 32.02384 | -105.527451 | Phonolite dike on Wind Mountain, PEp | Calciocatapleiite, Monazite, Lueshite, Hydroxymanganopyrochlore, Oxynatropyrochlore, sphalerite, copper sulfide |

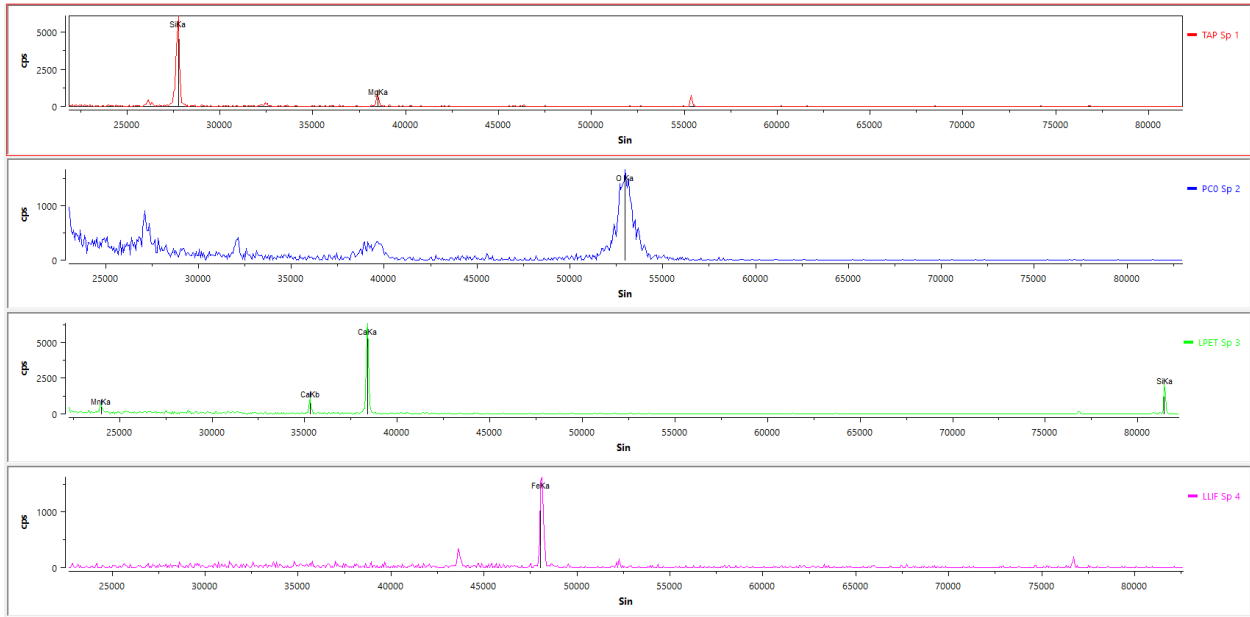
| | | | | |
|-----------------------|------------|-------------|---|--|
| CORN4001* | 32.037007 | -105.631322 | Alamo Mountain phonolite, PEp, PEm | Aenigmatite, titanomagnetite |
| CORN4005* | 32.0189982 | -105.531283 | Lil' Windy nepheline syenite (west Wind Mountain), PENSP3 | Aegirine-augite, anorthoclase, titanomagnetite |
| CORN4013* | 32.000446 | -105.556906 | San Antonio Mountain nepheline syenite, PEns | Aegirine-augite, monazite, arfvedsonite, aenigmatite, fayalite, titanomagnetite |
| CORN4014 | | | Chattfield Mountain phonolite sill, PEp | Aegirine-augite, albite, titanomagnetite |
| CORN4019* | 32.087015 | -105.522017 | Syenite sill west of Cornudas Mountain, PEqs | Augite, calderite |
| CORN4020 | | | Cornudas Mountain syenite, PEqs | Aegirine-augite, apatite, arfvedsonite, anatase |
| 55615-01-015 | 32.028683 | -105.499442 | Wind Mountain nepheline syenite, PENSP2 | Aegirine-augite, apatite, K-feldspar, calciocatapleiite, zircon, monazite, aqualite, galena, sphalerite |
| 55615-02-035 | 32.028683 | -105.499442 | Wind Mountain nepheline syenite, PENSP2 | Aegirine, bastnäsité, calciocatapleiite, monazite, albite, aqualite, rheniite?, sphalerite |
| WMEB6 (WMEB6-181-182) | 32.028683 | -105.499442 | Wind Mountain nepheline syenite, PENSP2 | Analcime, K-feldspar, calciocatapleiite, bastnäsité, pyrite |
| N-WMEB | 32.028683 | -105.499442 | Wind Mountain nepheline syenite, PENSP2 | Johannsenite, aegirine-augite, albite, bastnäsité, aqualite, sergevanite, monazite, calciocatapleiite |
| SWMEB | 32.028683 | -105.499442 | Wind Mountain nepheline syenite, PENSP2 | Johannsenite, aqualite, sergevanite, bastnäsité, monazite, kerimasite, calciocatapleiite, hornblende, pyrolusite |

CORN 79- East Chess Draw nepheline syenite

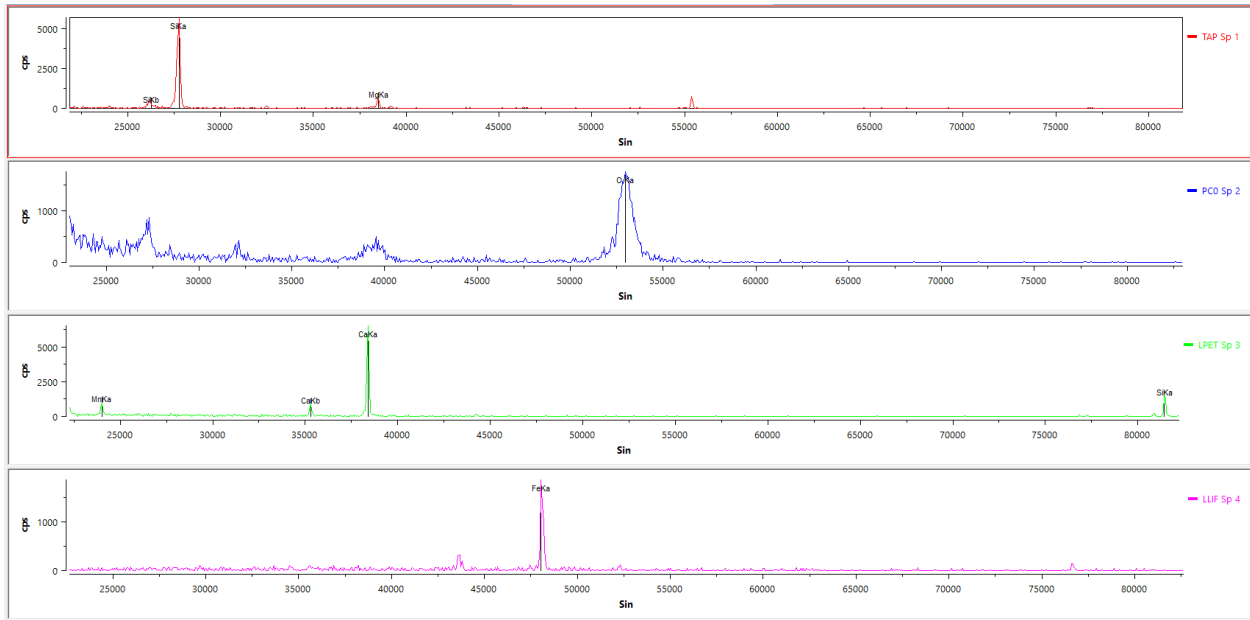
Pyroxenes



CORN79_1- Augite



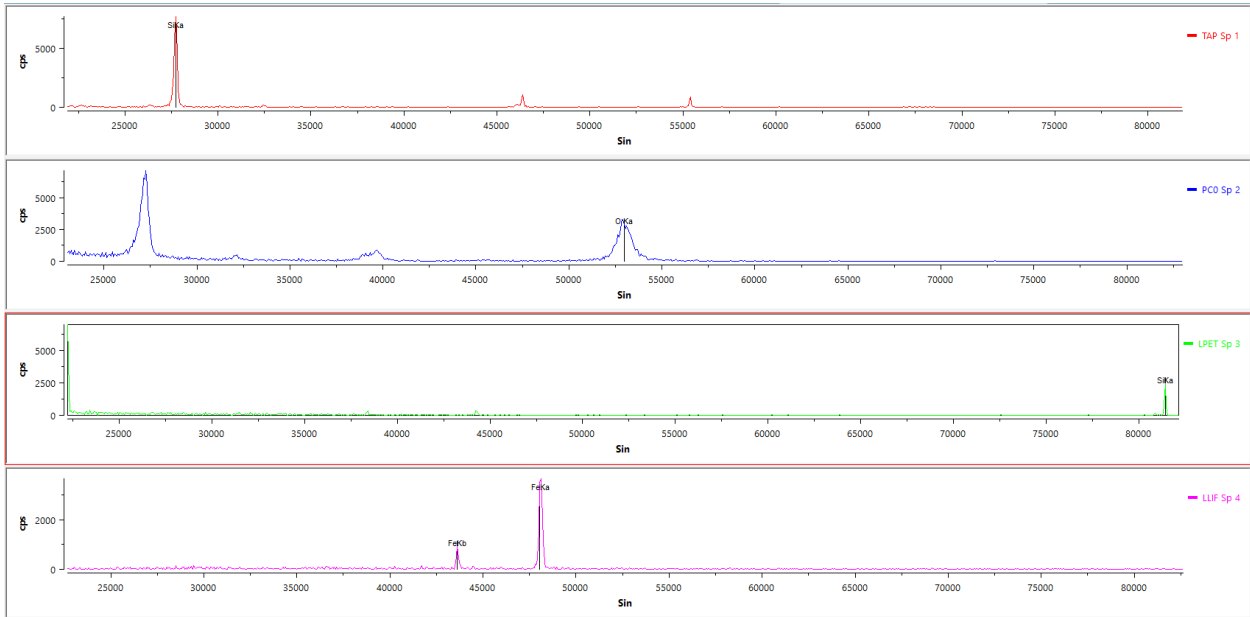
CORN79_2- Augite



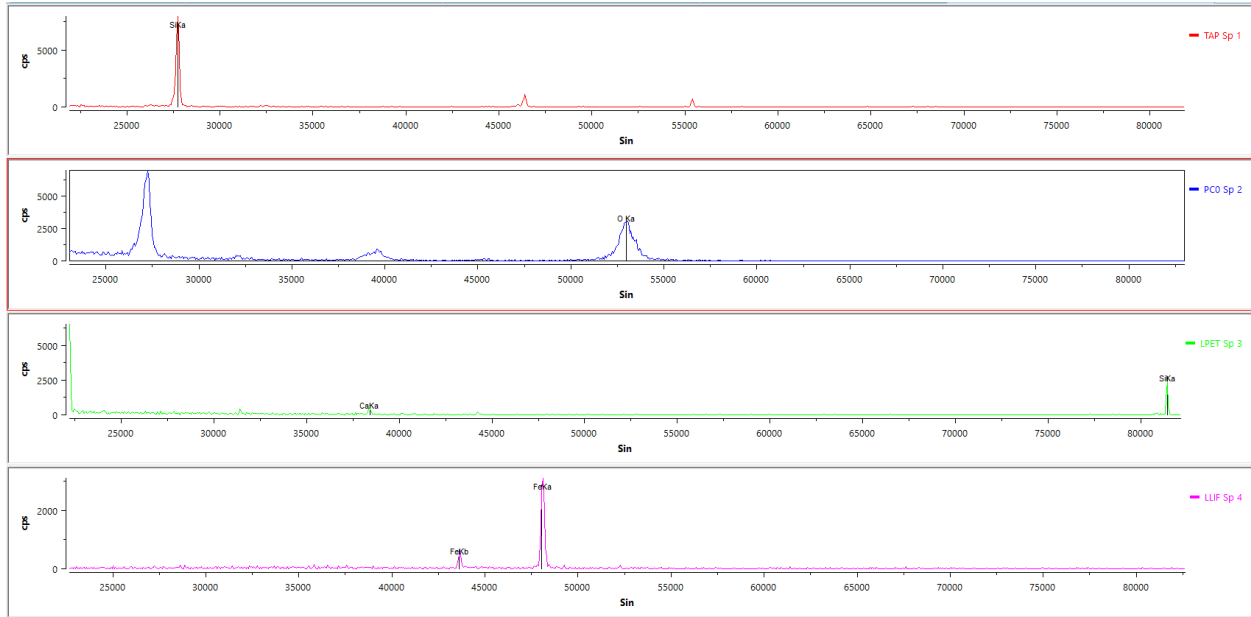
CORN79_3- Augite

CORN 104- Skarn North of Wind Mountain

Pyroxenes

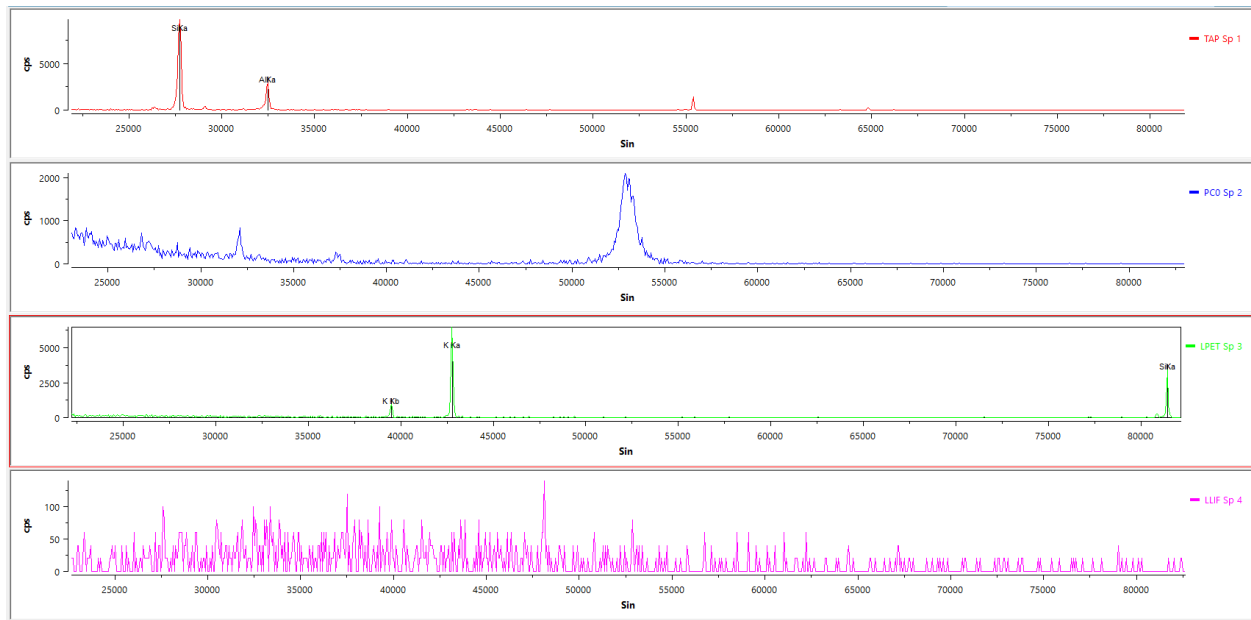


CORN104_5- Aegirine

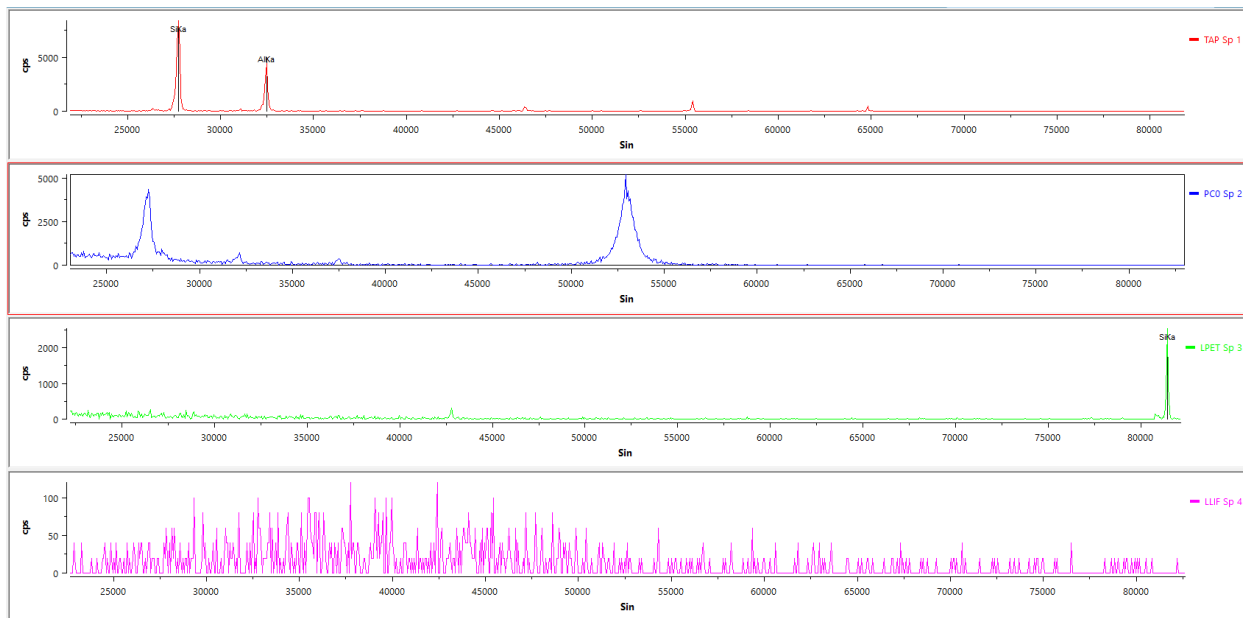


CORN104_7- Aegirine

Feldspars and Feldspathoids

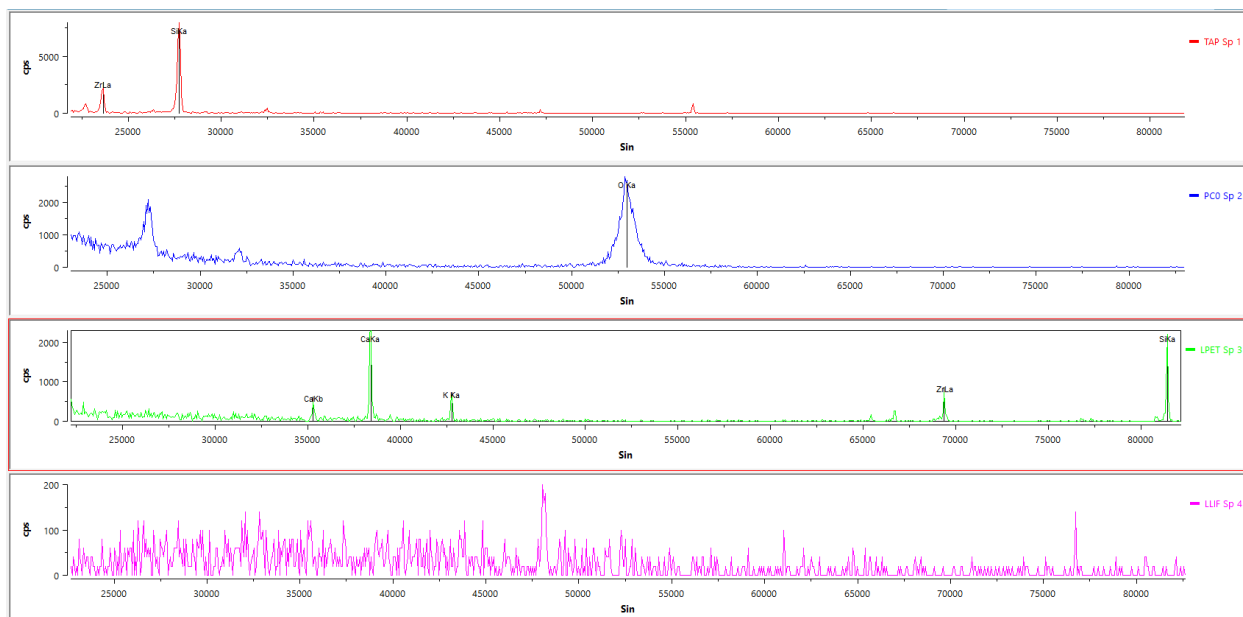


CORN104_8- Potassium Feldspar

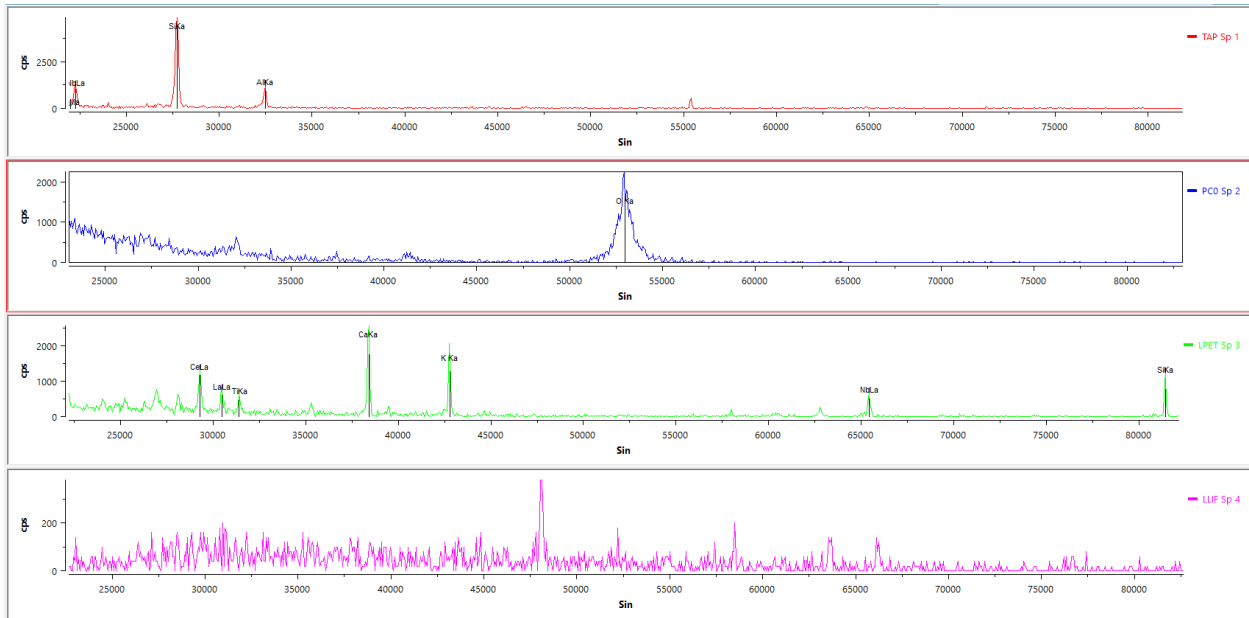


CORN104_9- Analcime

REE, Zr, and Nb Phases



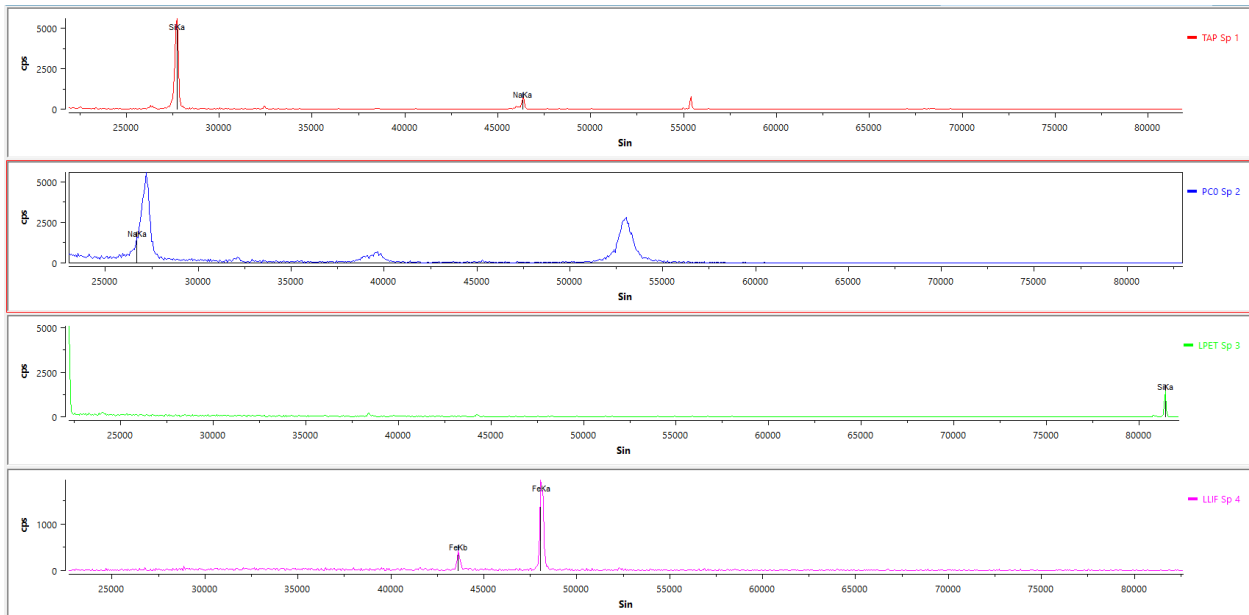
CORN104_6- Aqualite



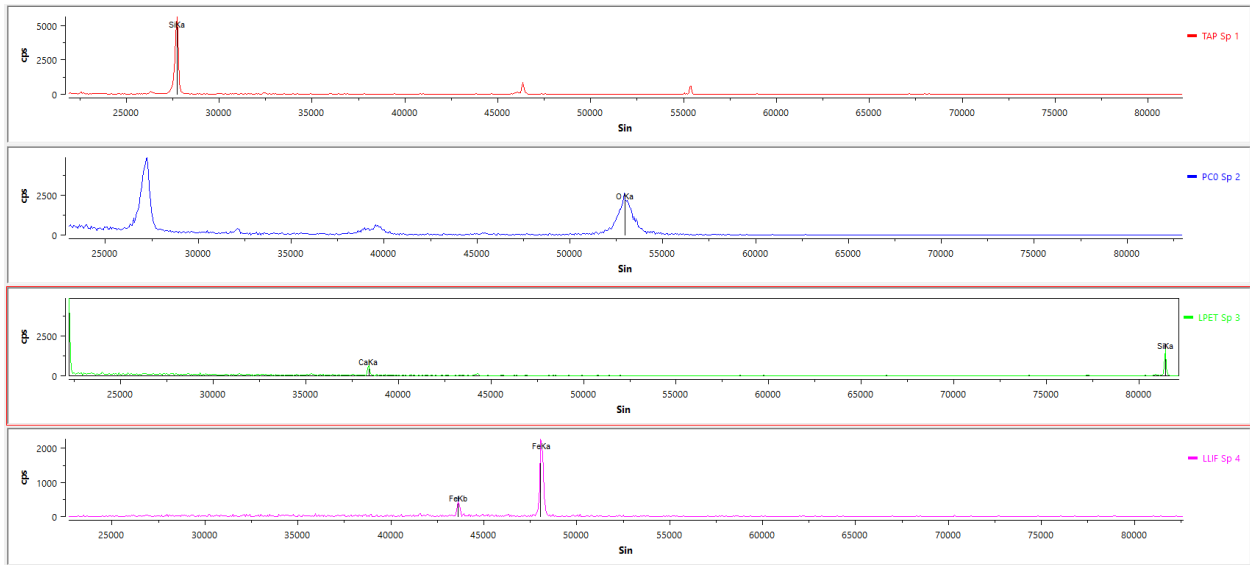
CORN104_10- Feldspar and Pyrochlore Mixed Phase

CORN 108-skarn east Wind Mountain (Jones prospect)

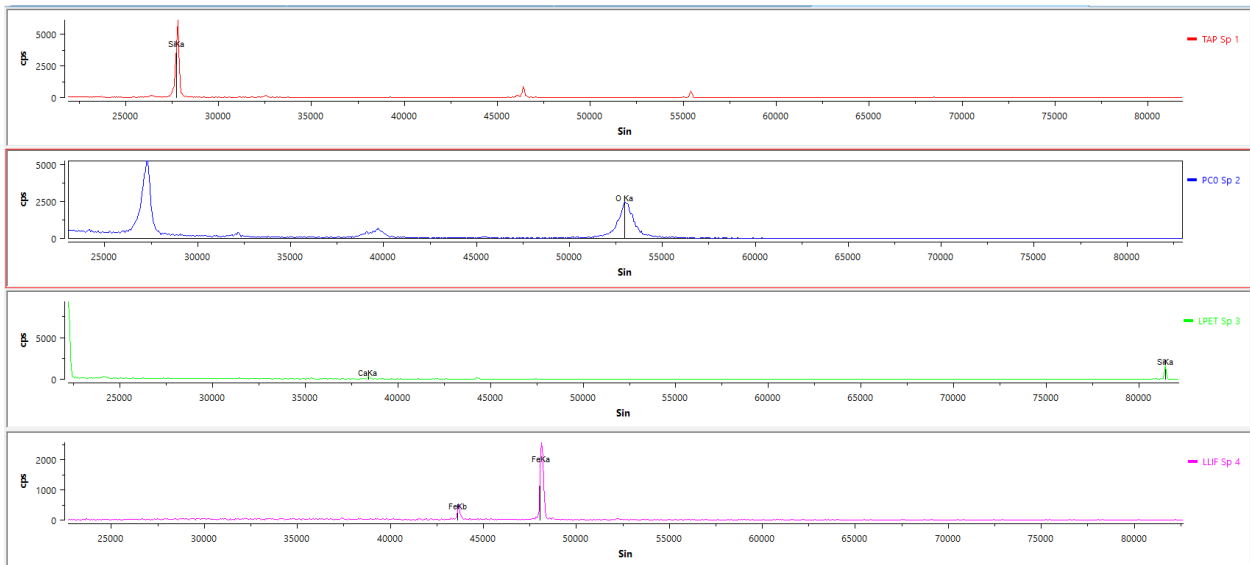
Pyroxenes



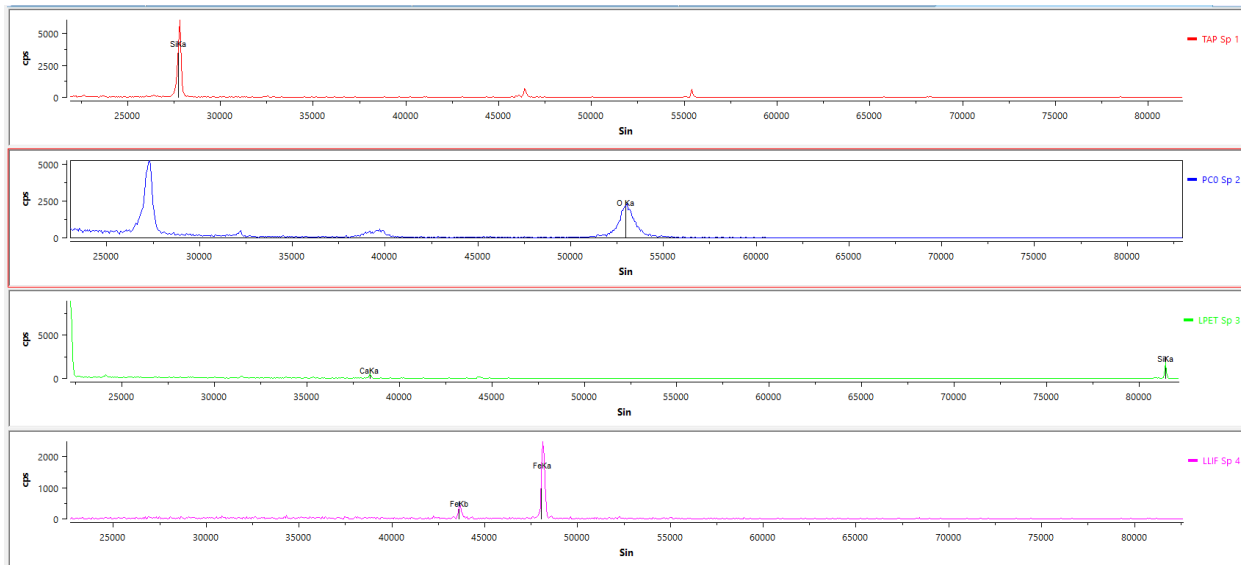
CORN-108_6- Aegirine



CORN-108_10- Aegirine

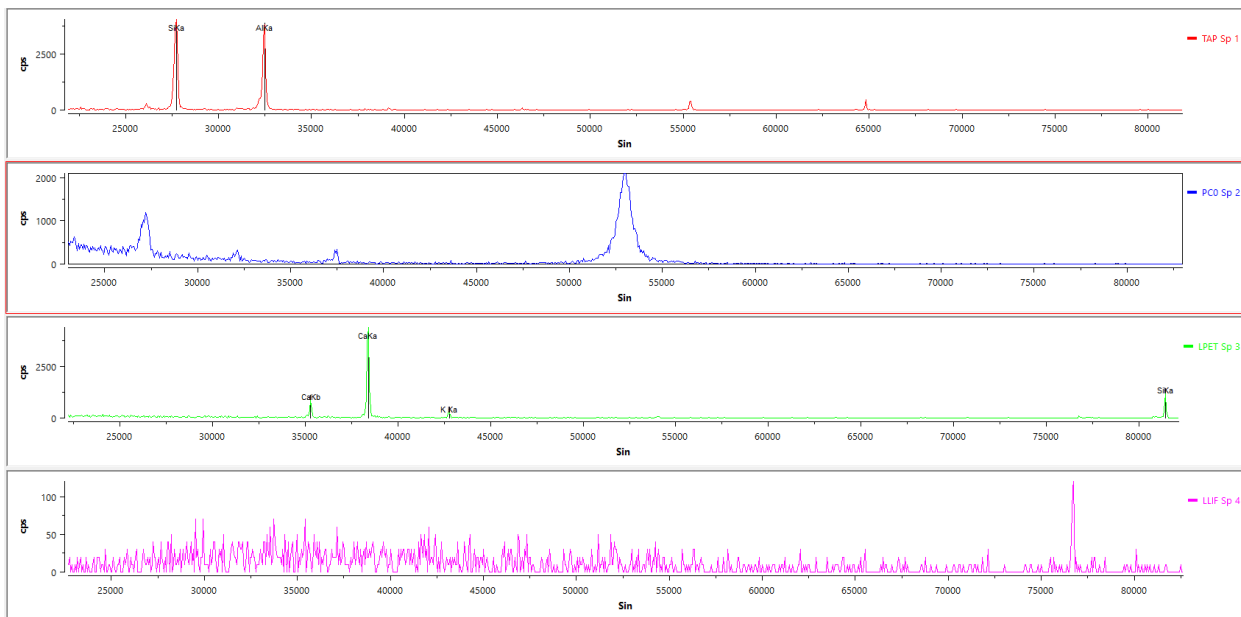


CORN-108_13- Aegirine

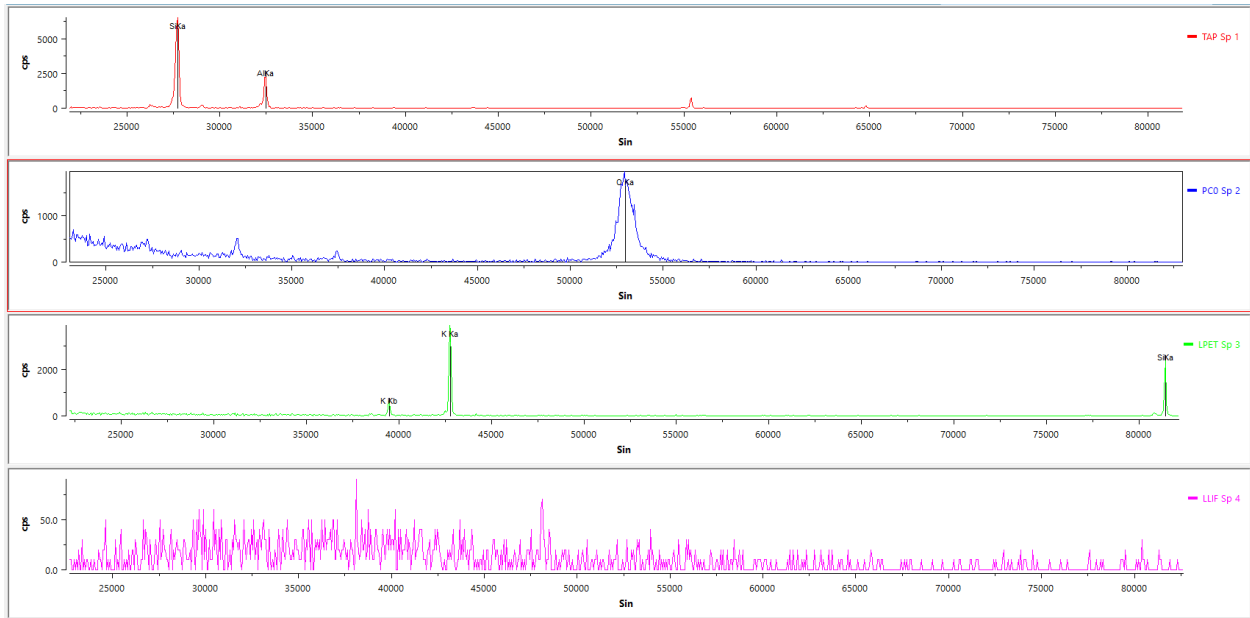


CORN-108_15- Aegirine

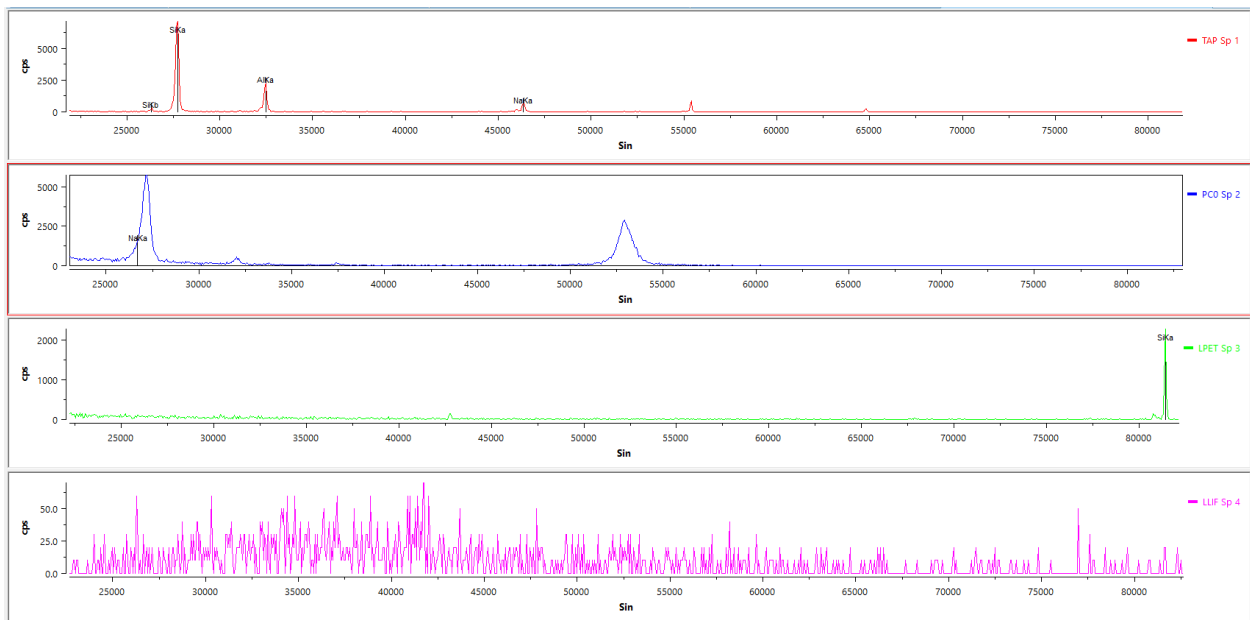
Feldspars and Feldspathoids



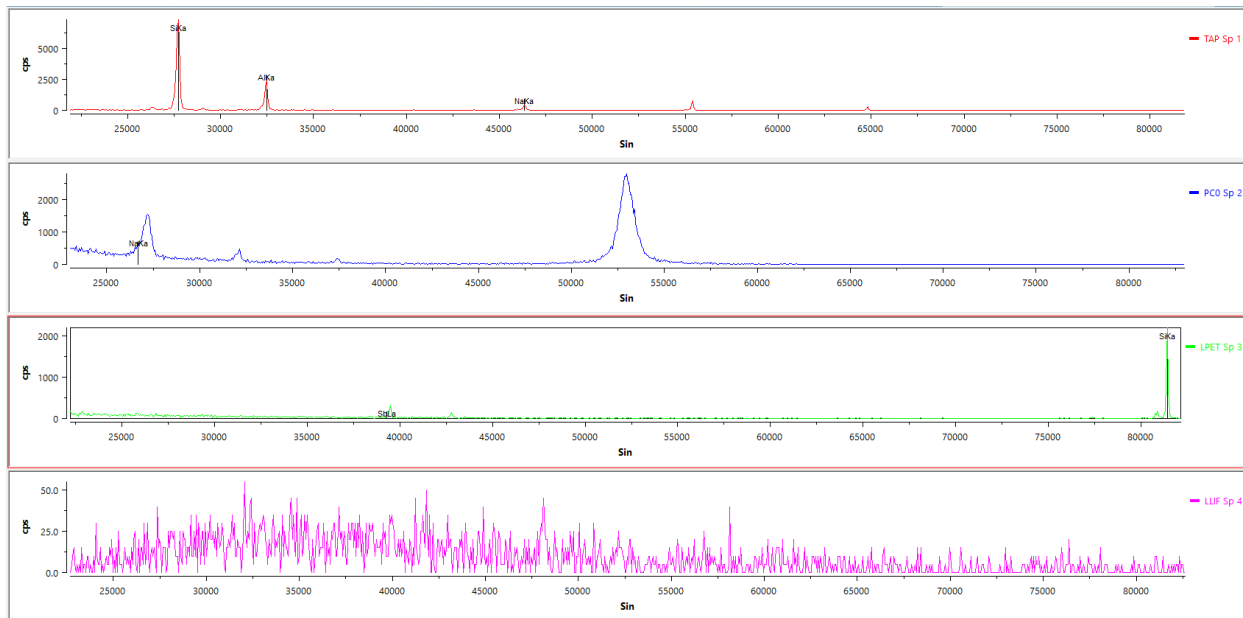
CORN-108_3- Cancrinite



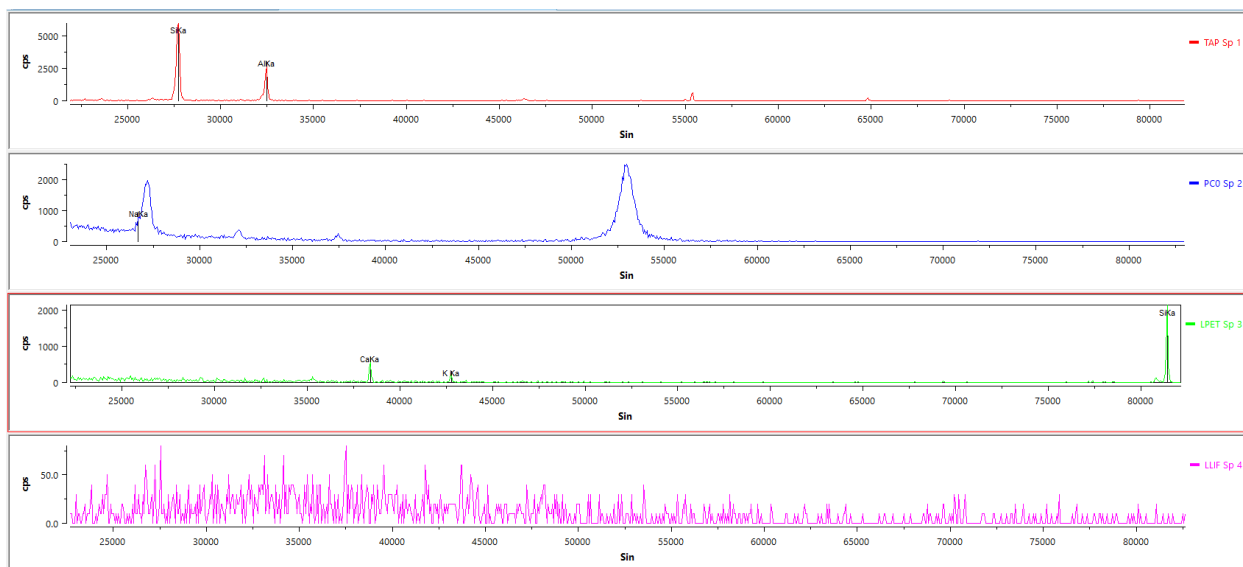
CORN-108_5- Potassium Feldspar



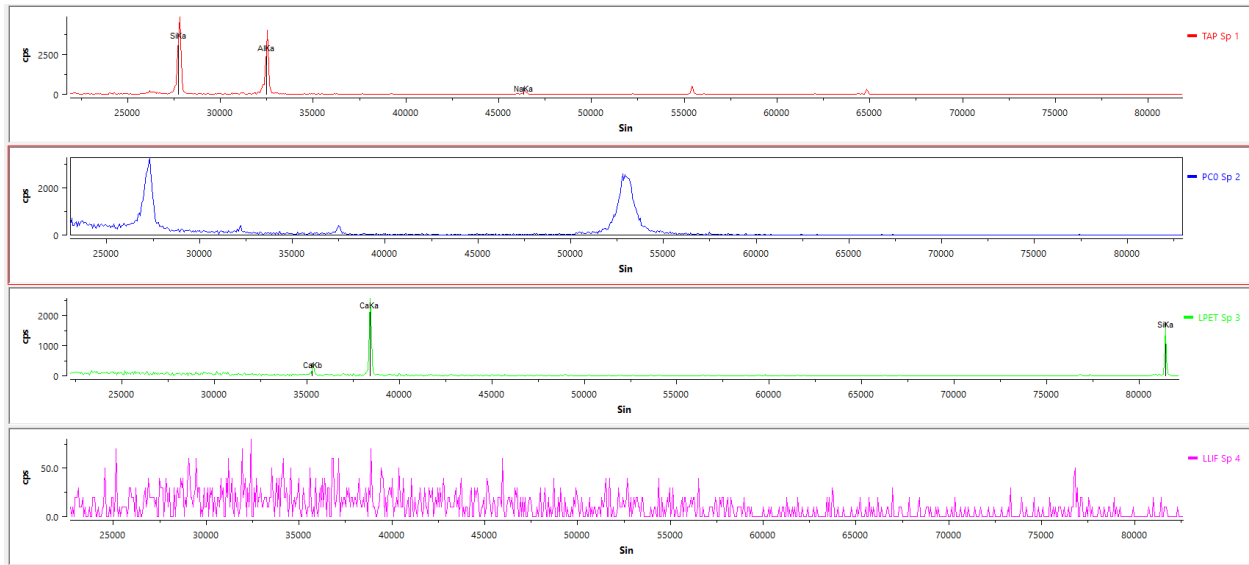
CORN-108_7- Albite



CORN-108_9- Albite

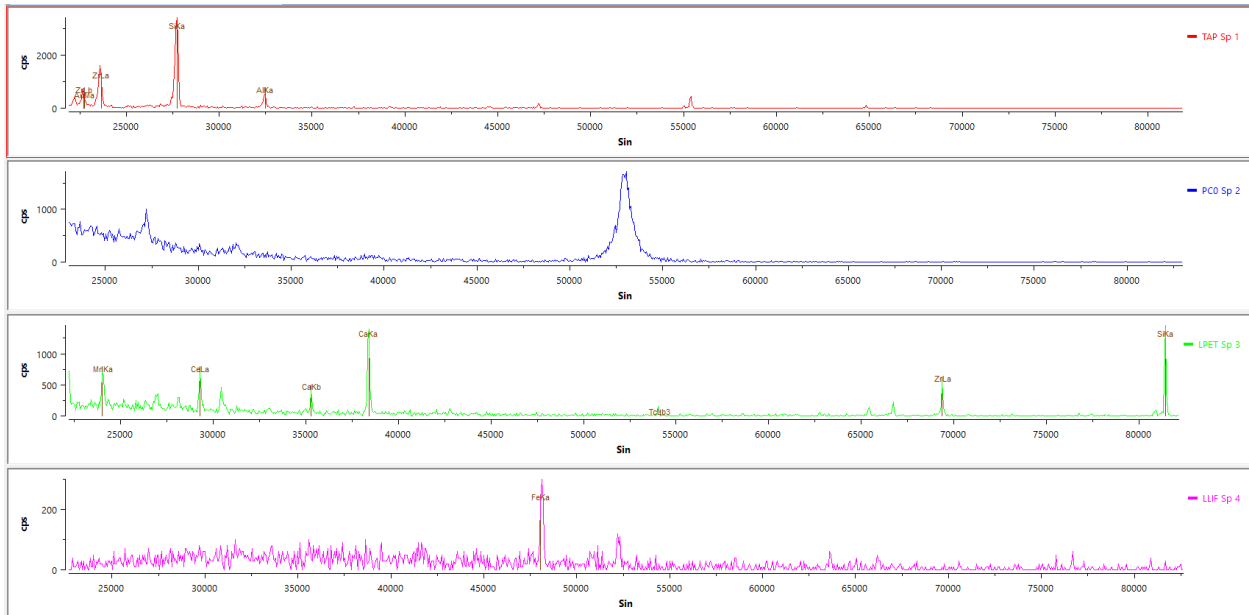


CORN-108_11- Plagioclase

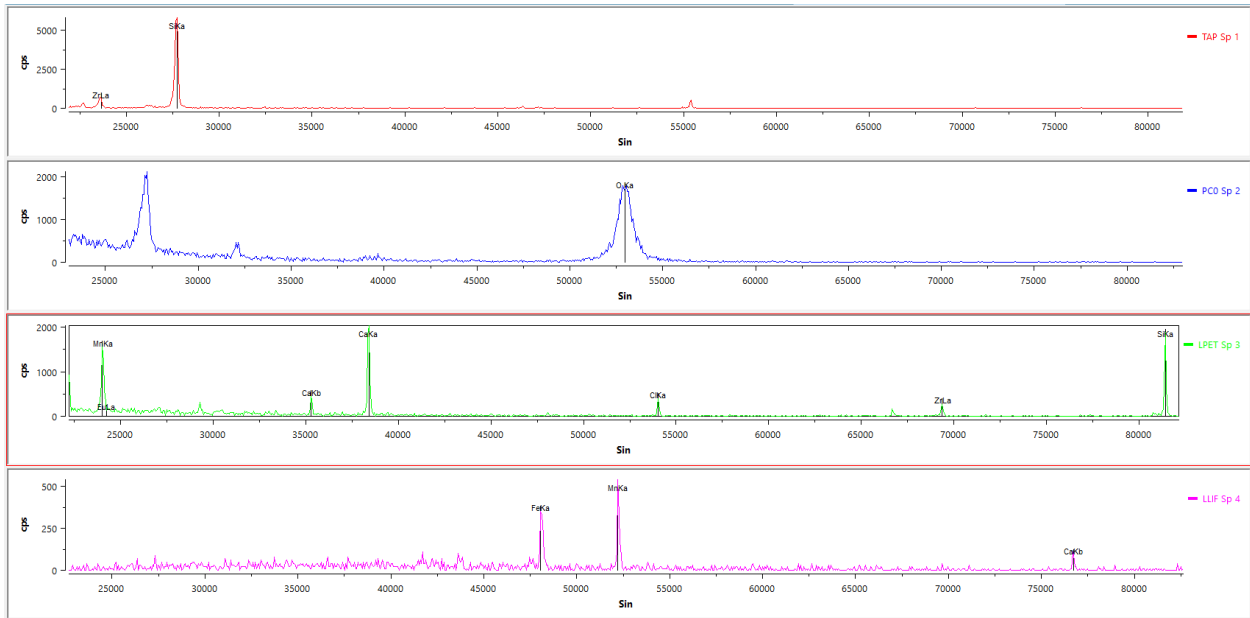


CORN-108_12- Plagioclase

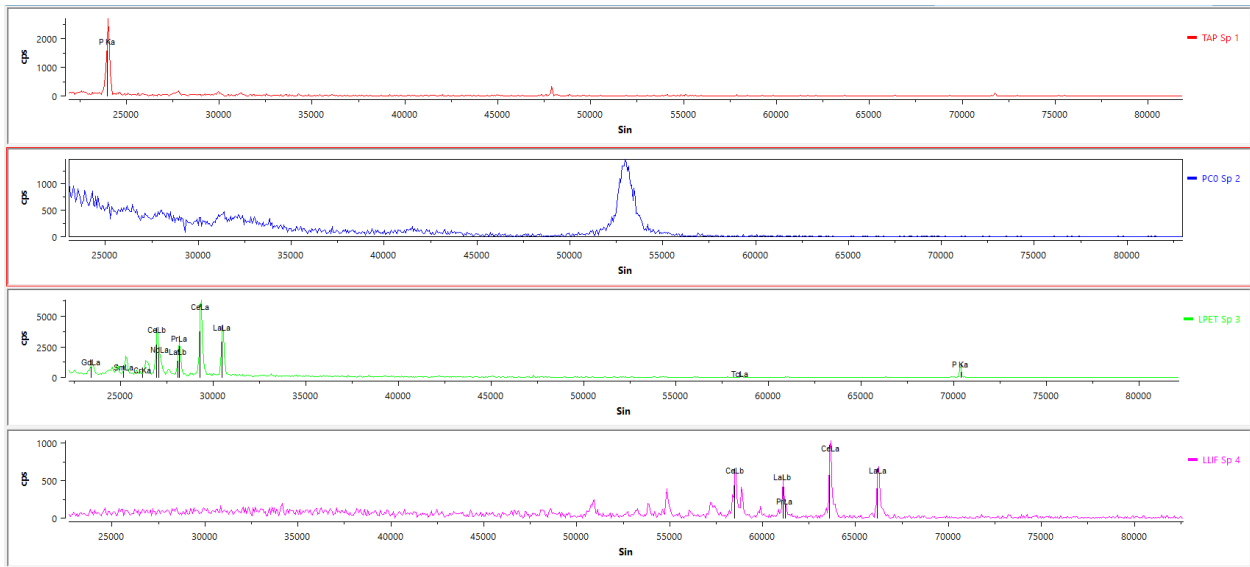
REE, Zr, and Nb Phases



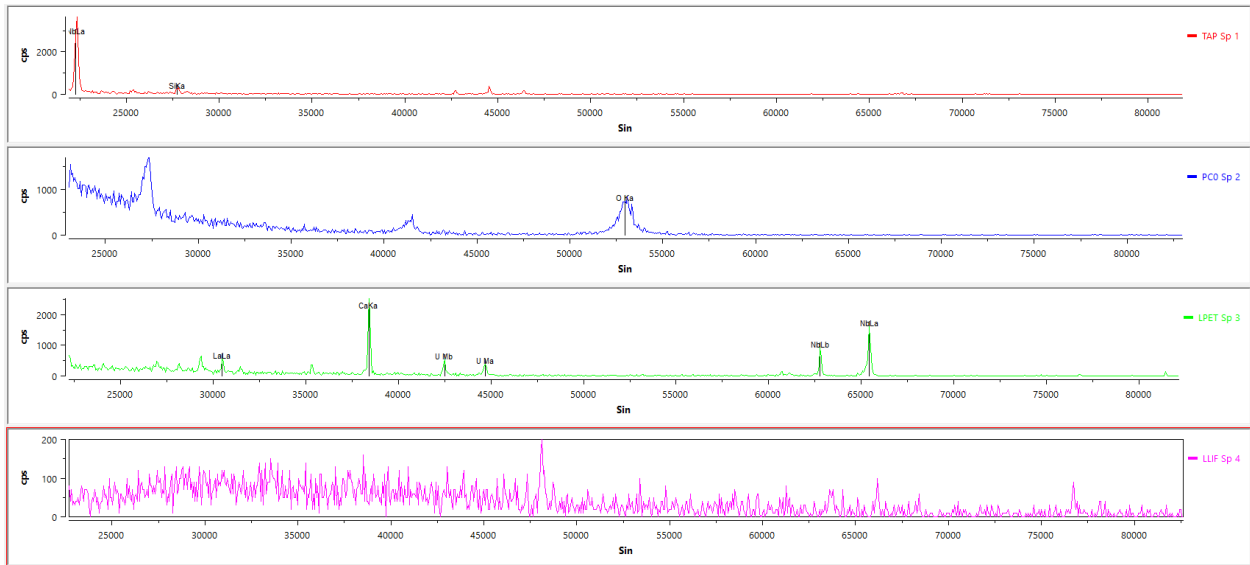
CORN-108_2- Eudialyte Group



CORN-108_4- Manganoedialyte

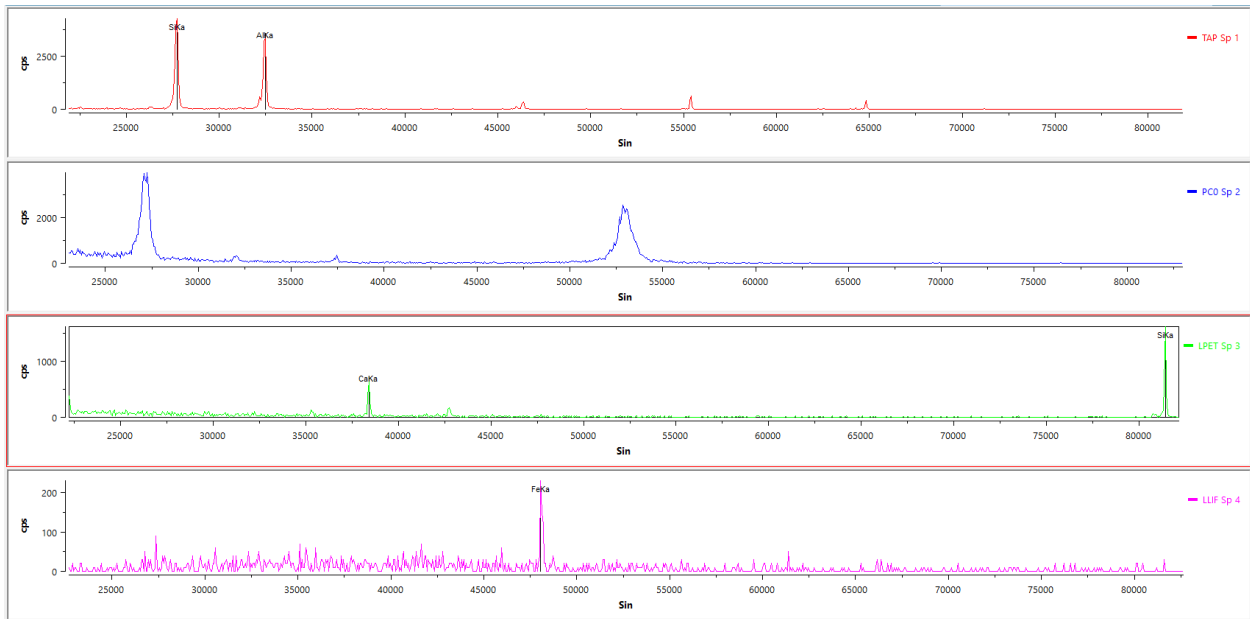


CORN-108_14- Monazite



CORN-108_16- Oxynatropyrochlore

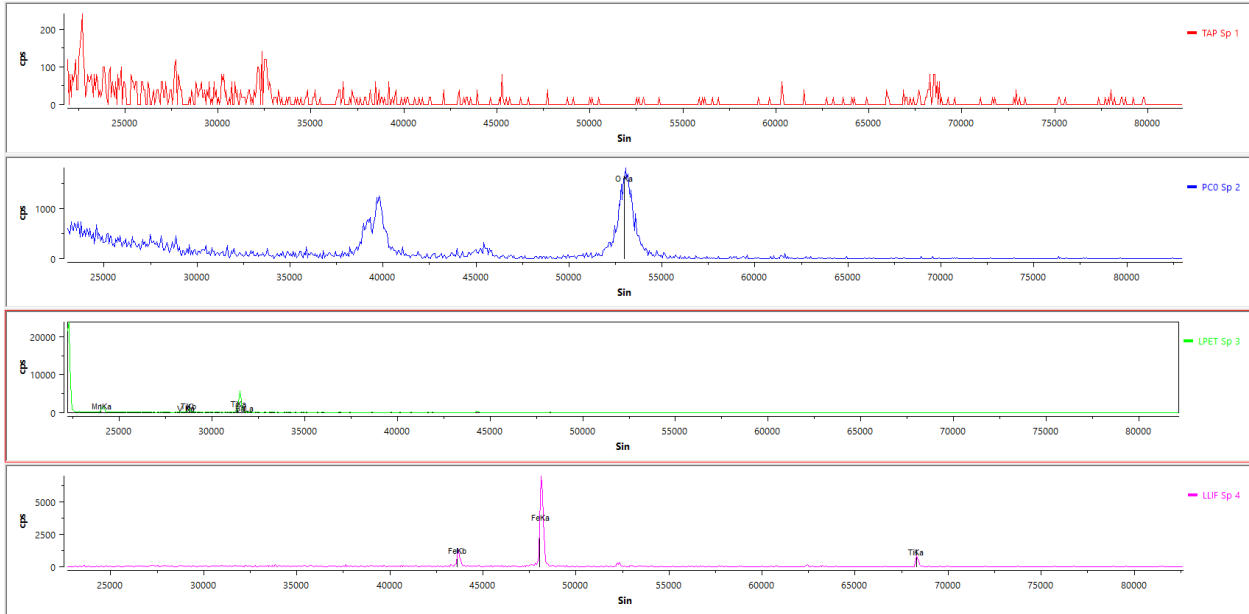
Amphiboles



CORN-108_8- Hastingsite

CORN 117- Dike East of Flat Top

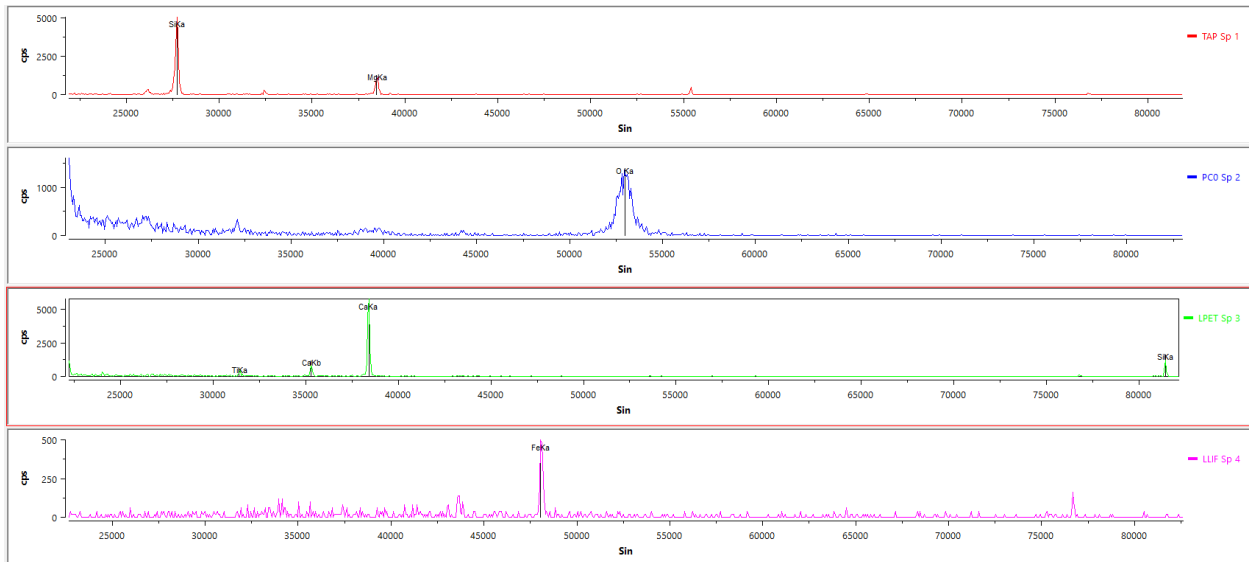
Oxides



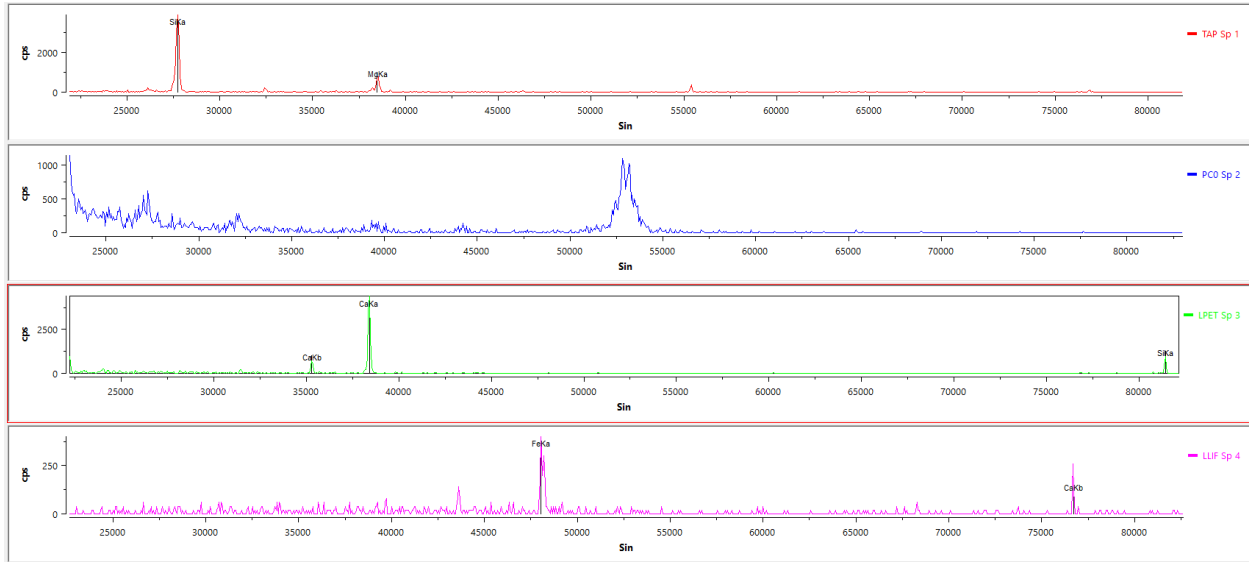
CORN117_1- Titanomagnetite

CORN 177- Augite Syenite

Pyroxenes

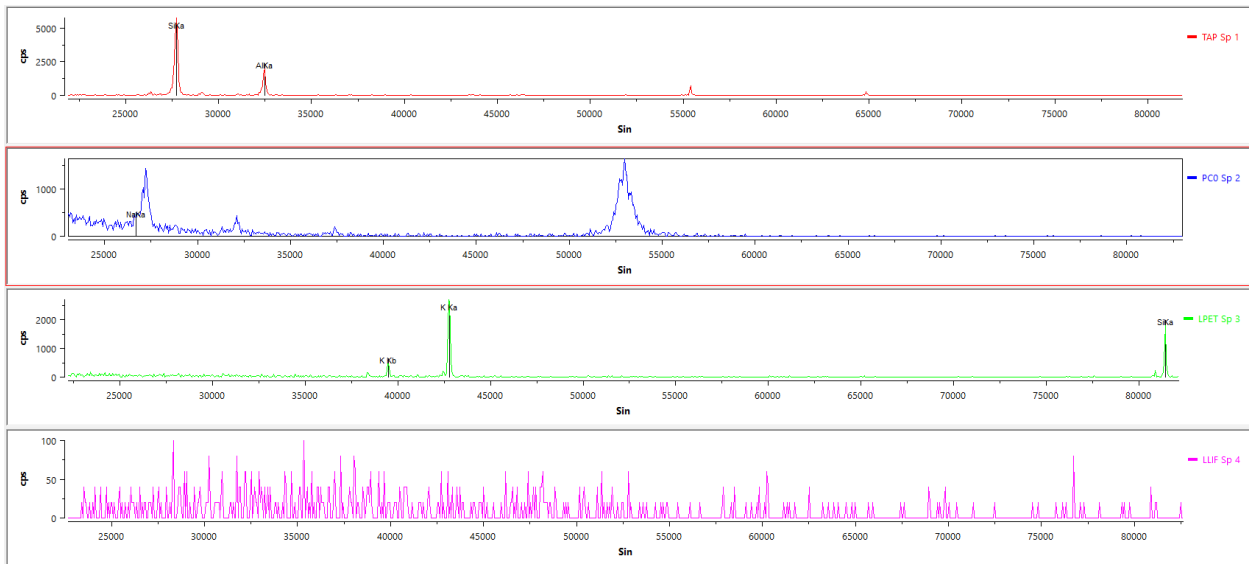


CORN177_Test1_4- Augite

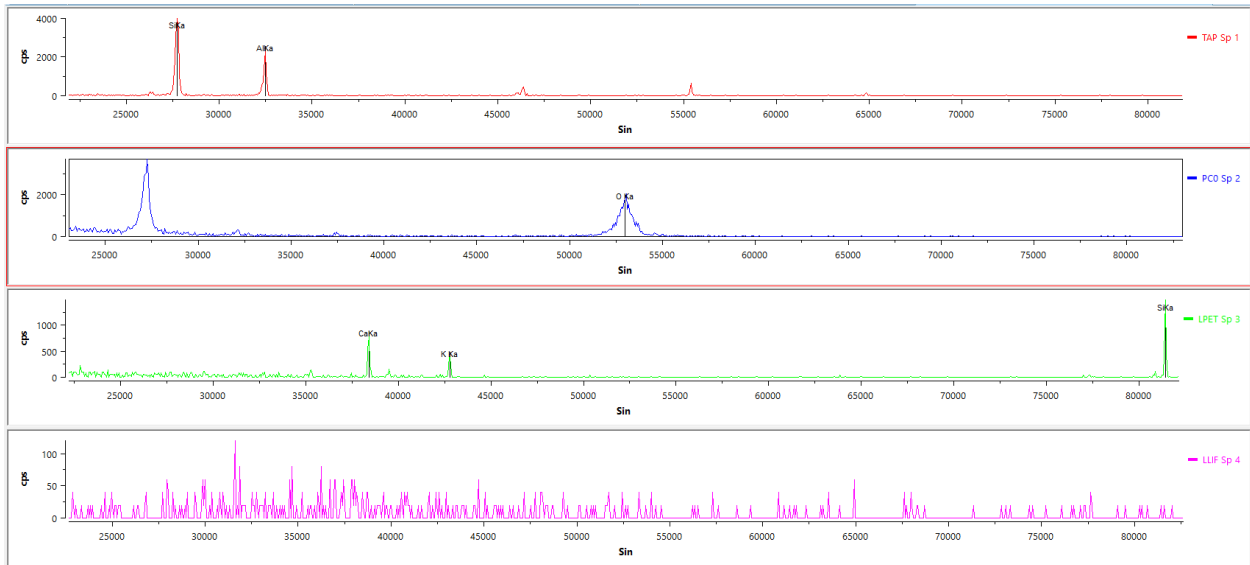


CORN177_Test1_11- Augite

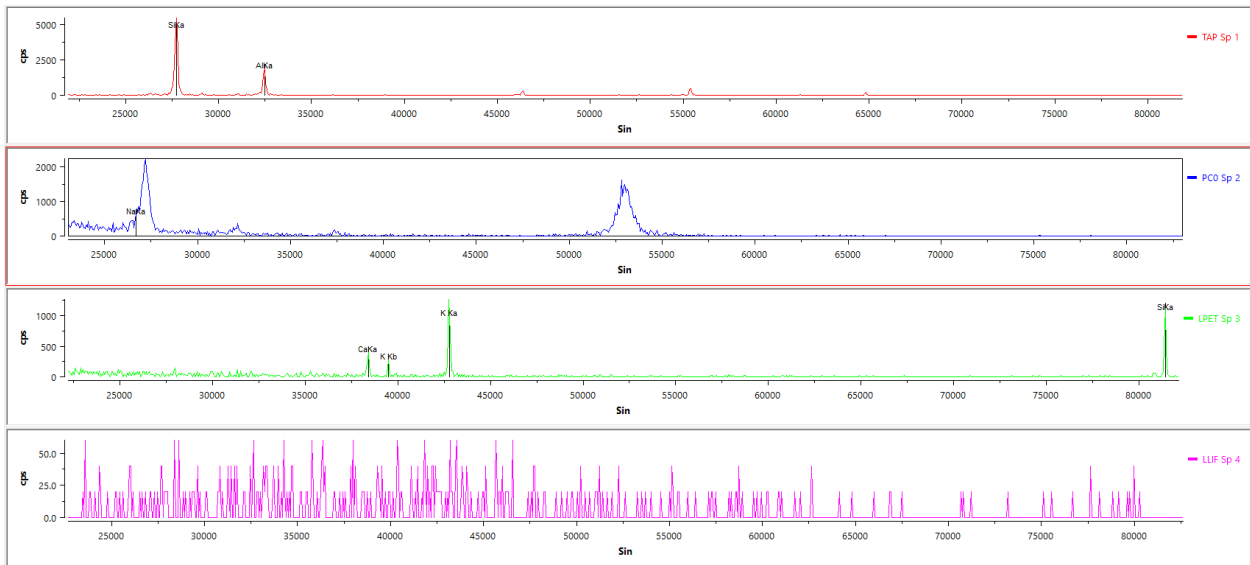
Feldspars and Feldspathoids



CORN177_Test1_5- Anorthoclase

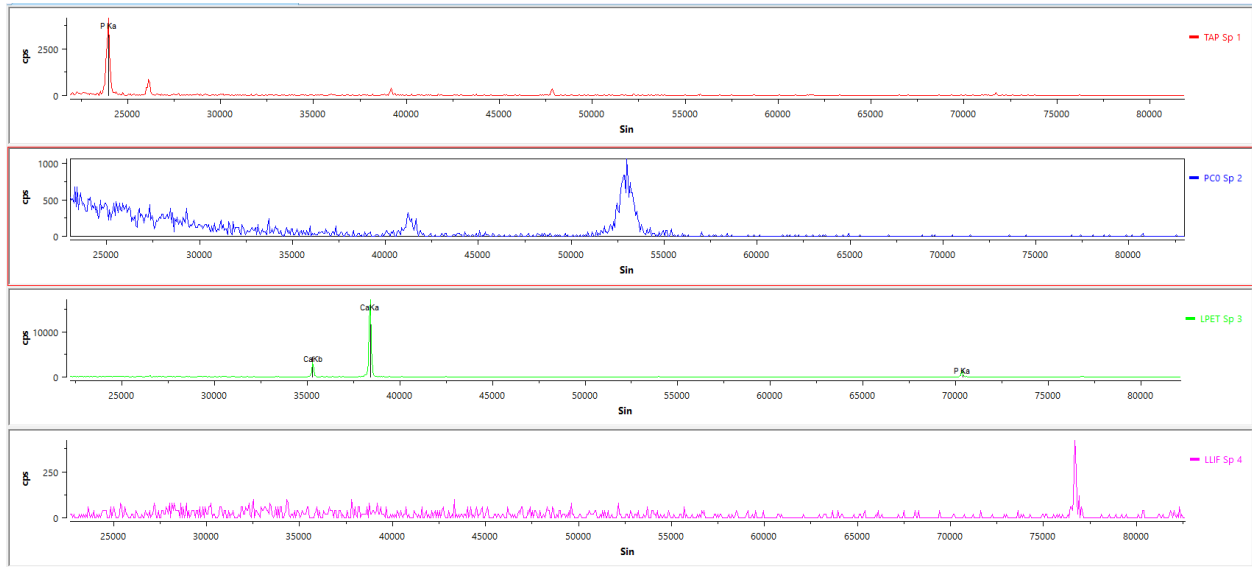


CORN177_Test1_9- Plagioclase

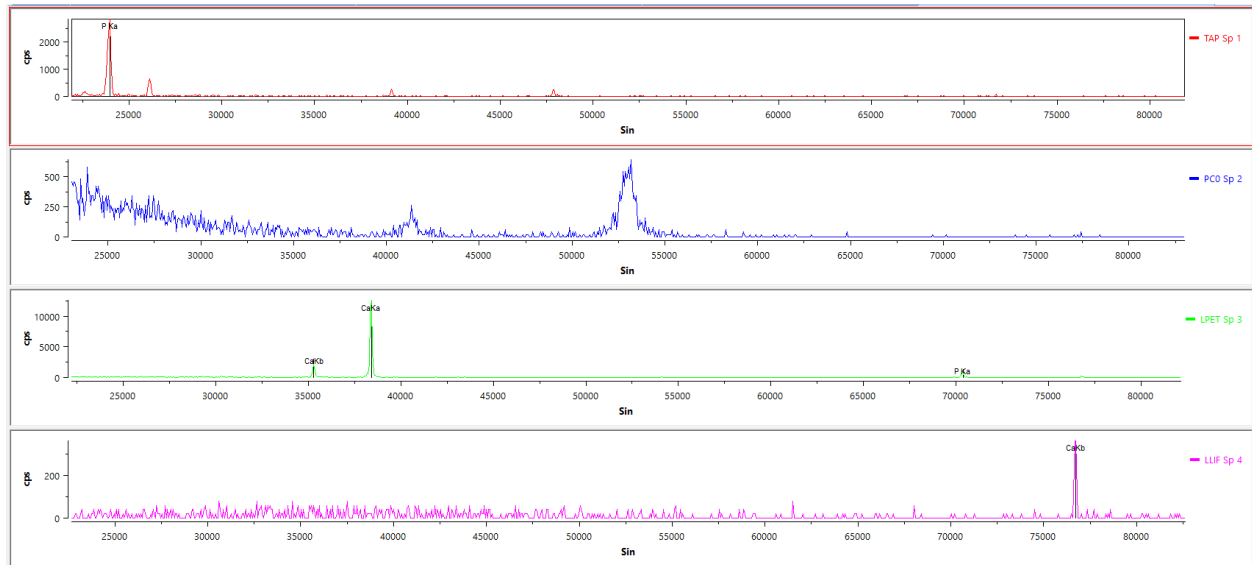


CORN177_Test1_10- Anorthoclase

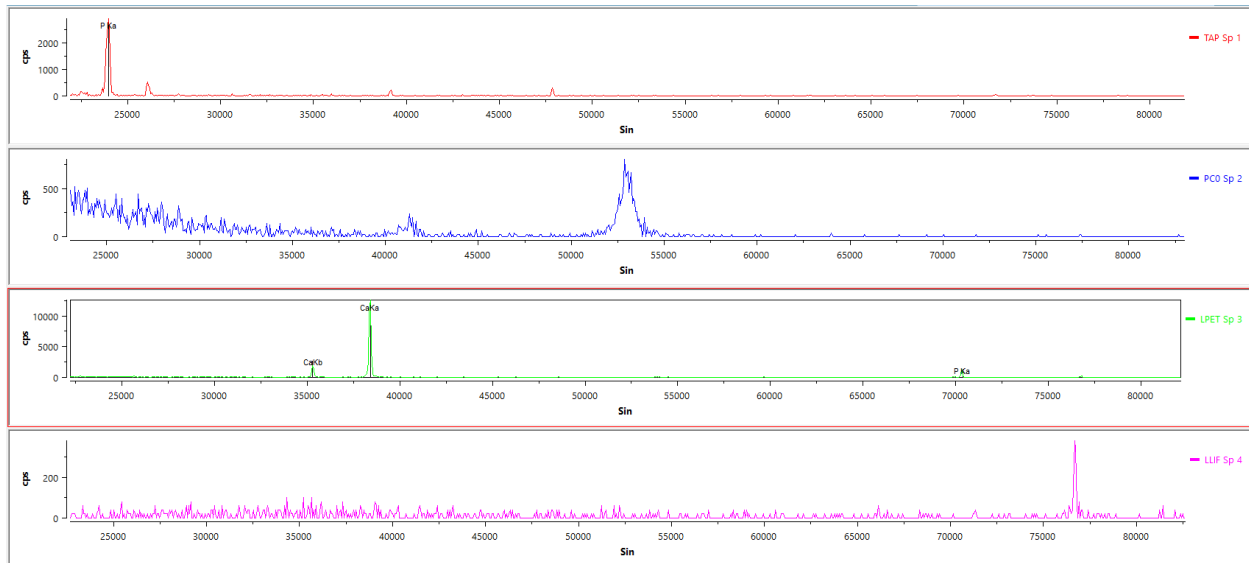
REE, Zr, and Nb Phases



CORN177_Test1- Apatite

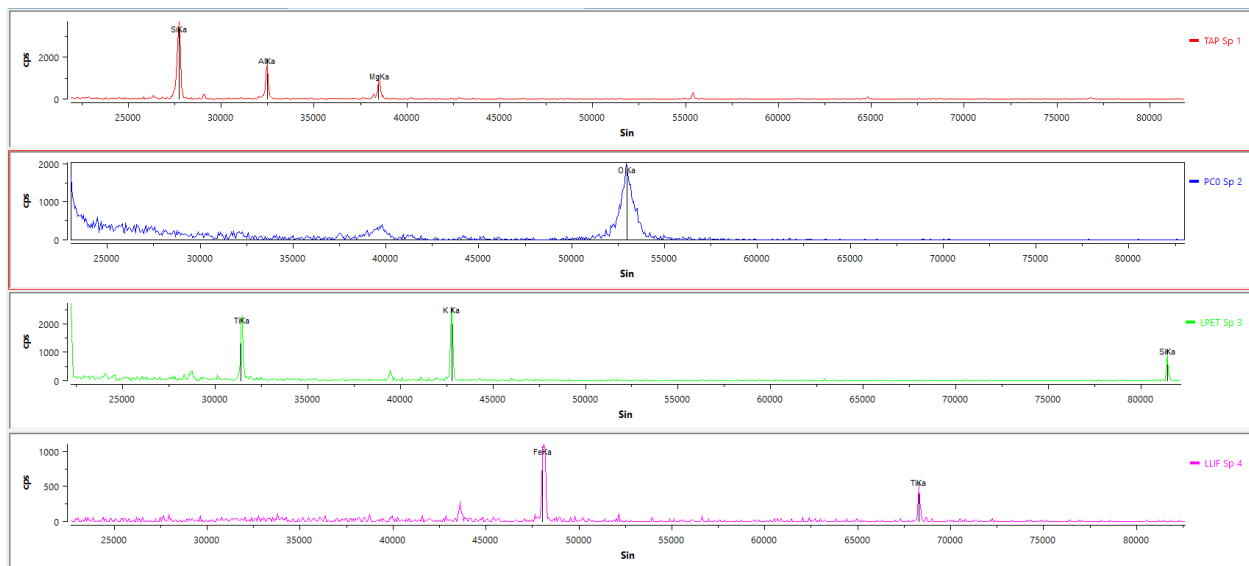


CORN177_Test1_6- Apatite

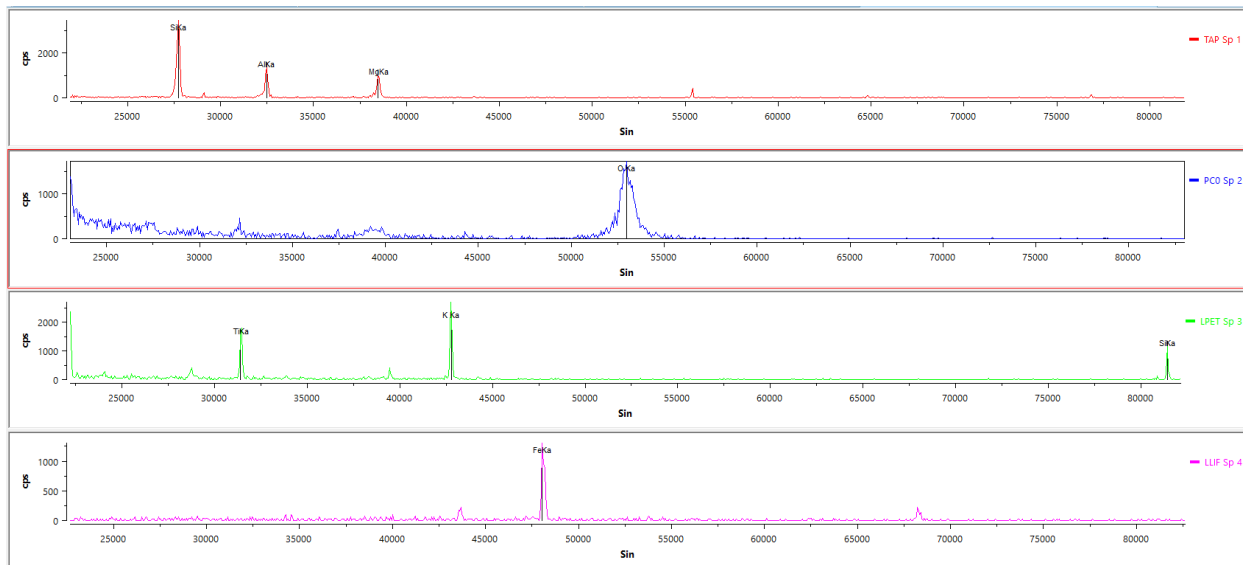


CORN177_Test1_7- Apatite

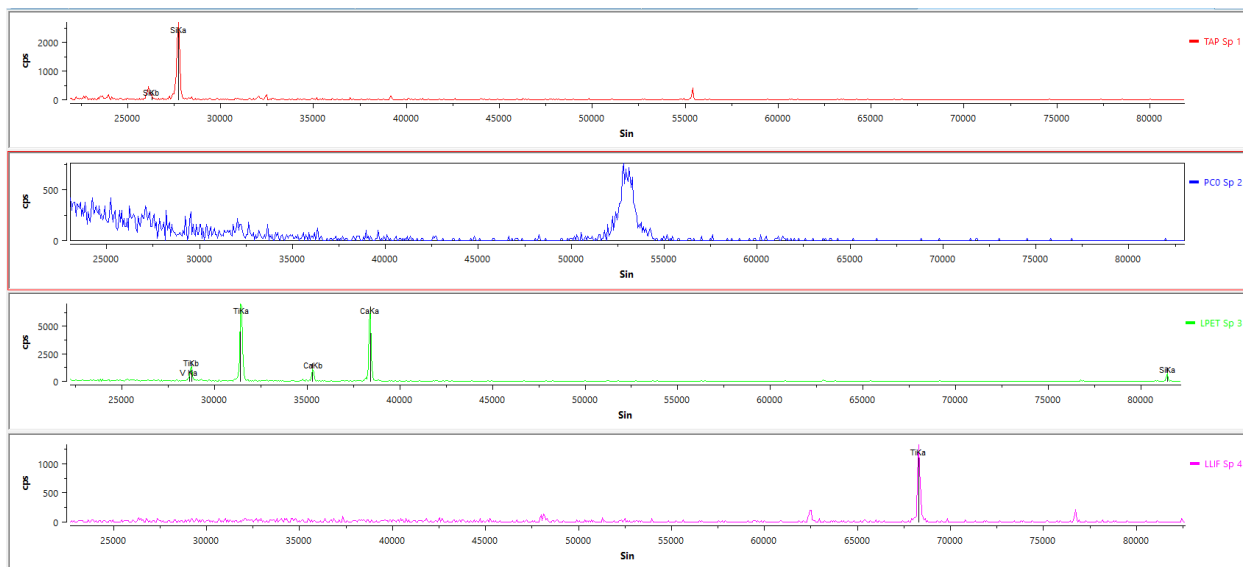
Other Silicates



CORN177_Test1_1- Biotite

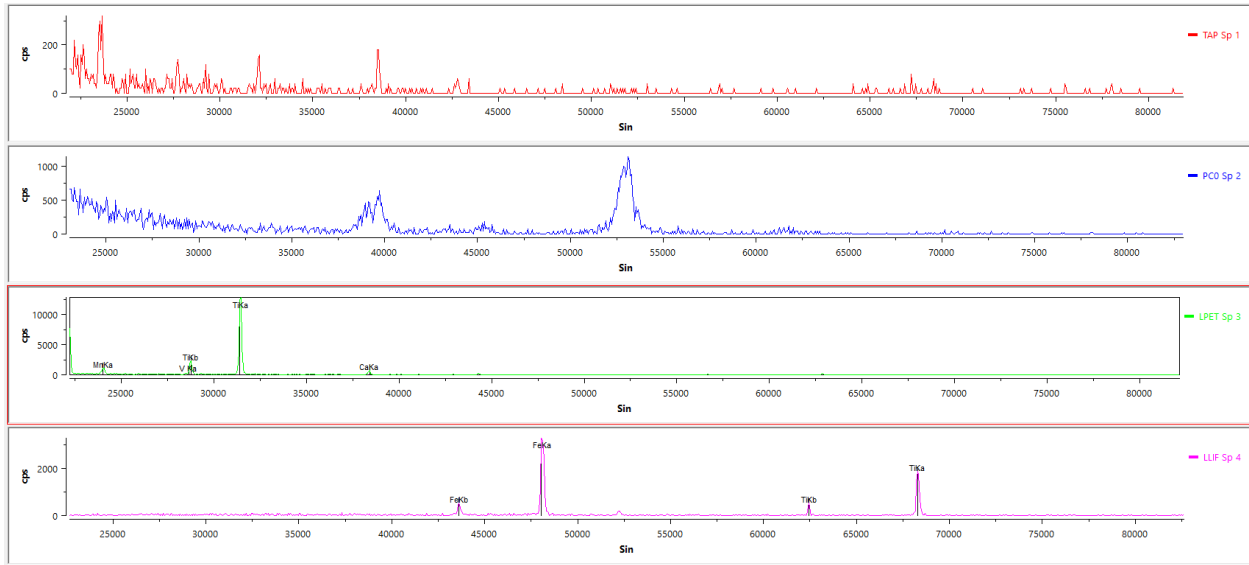


CORN177_Test1_3- Biotite



CORN177_Test1_8- Titanite

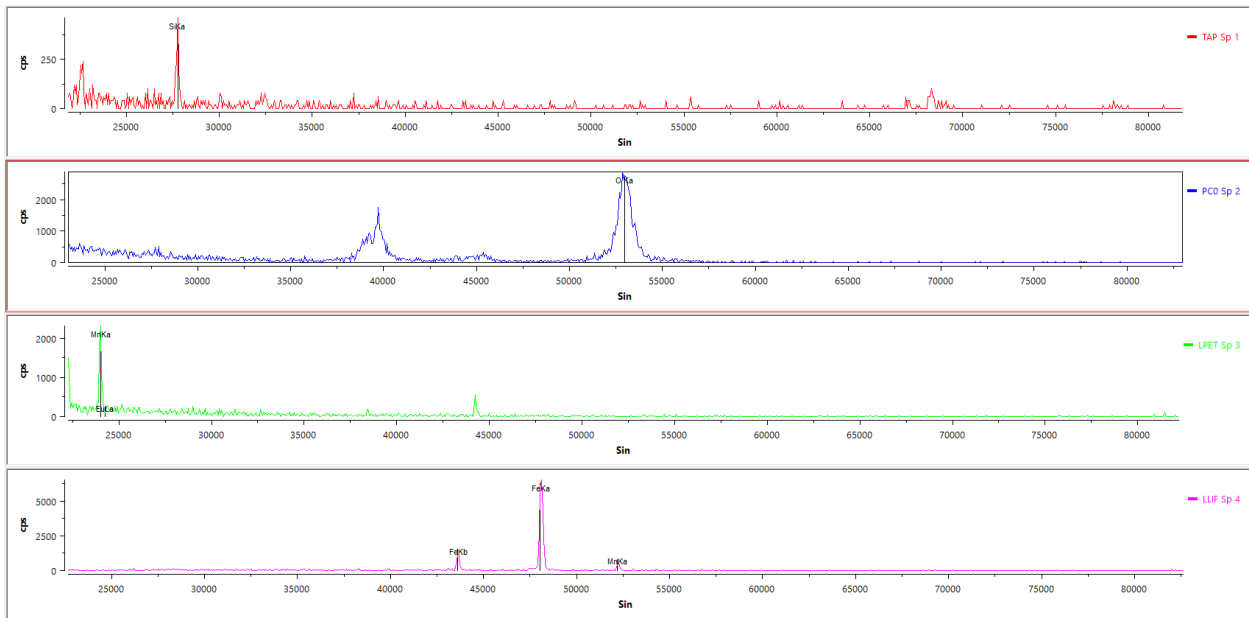
Oxides



CORN177_Test1_2- Ilmenite

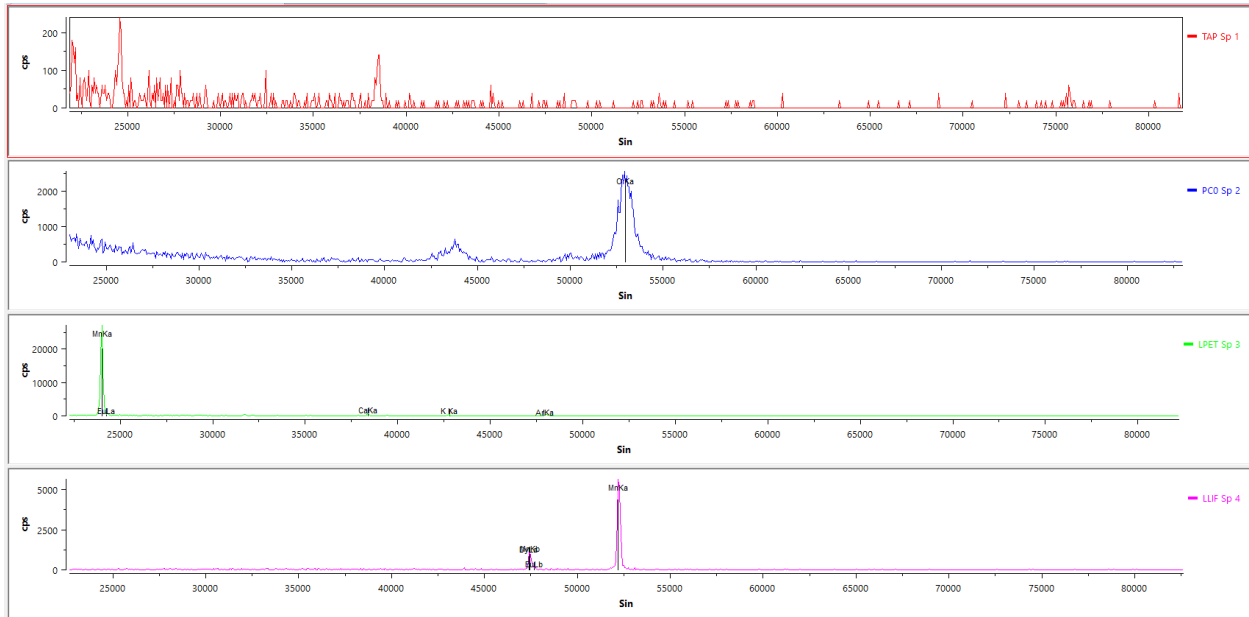
CORN 181- Dike North of Wind Mountain

Other Silicates



CORN79_3- Calderite

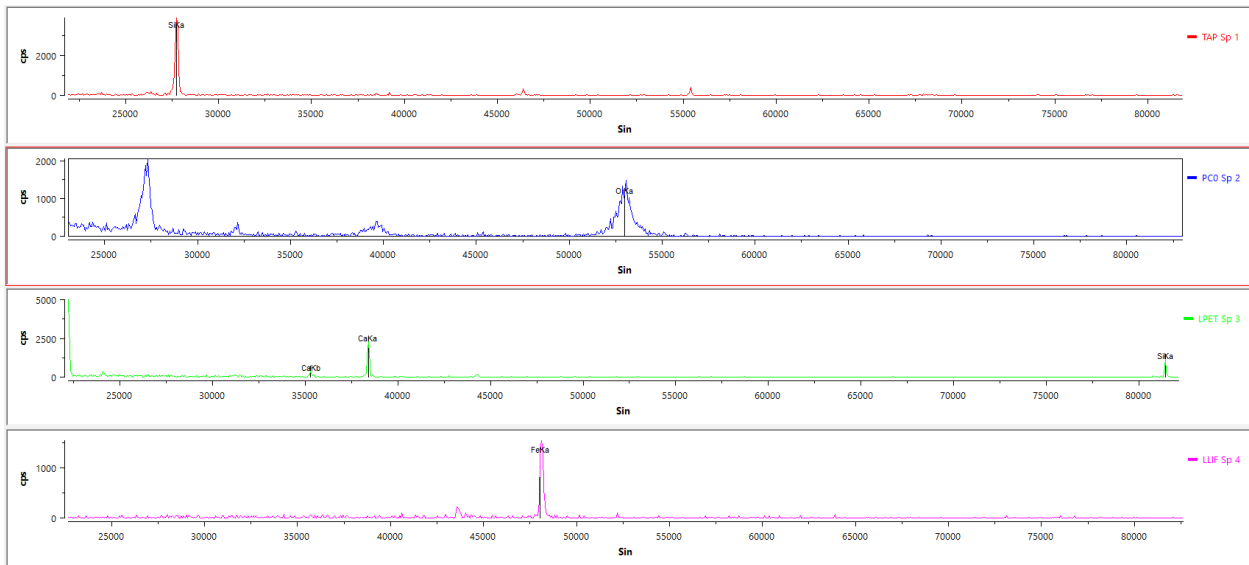
Oxides



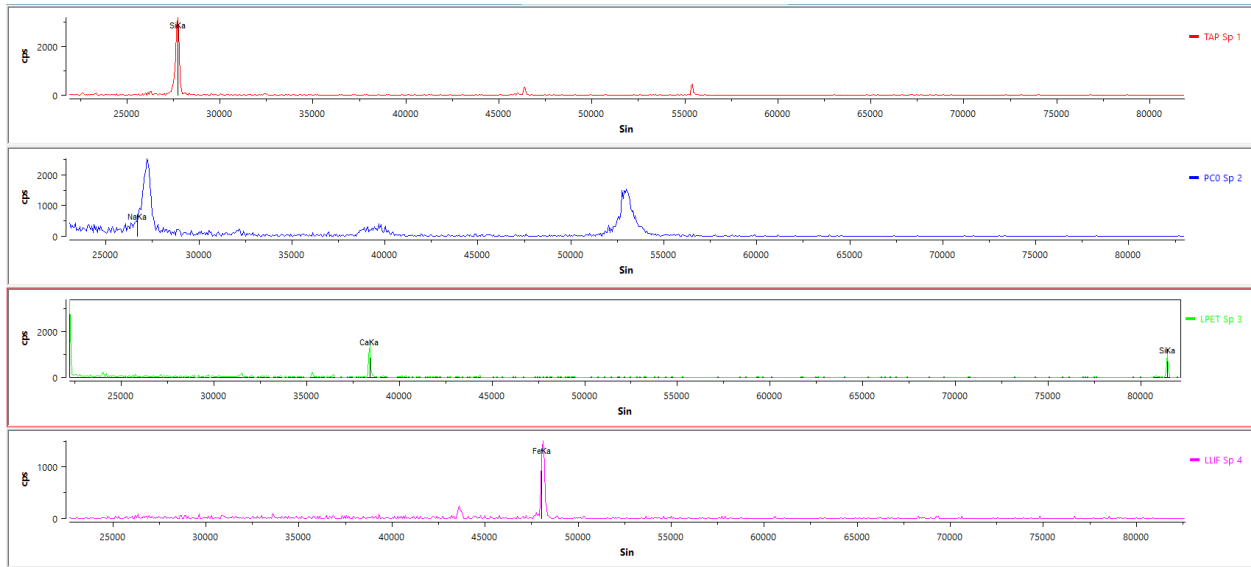
CORN181_13- Pyrolusite

CND 208- Washburn Mountain

Pyroxenes

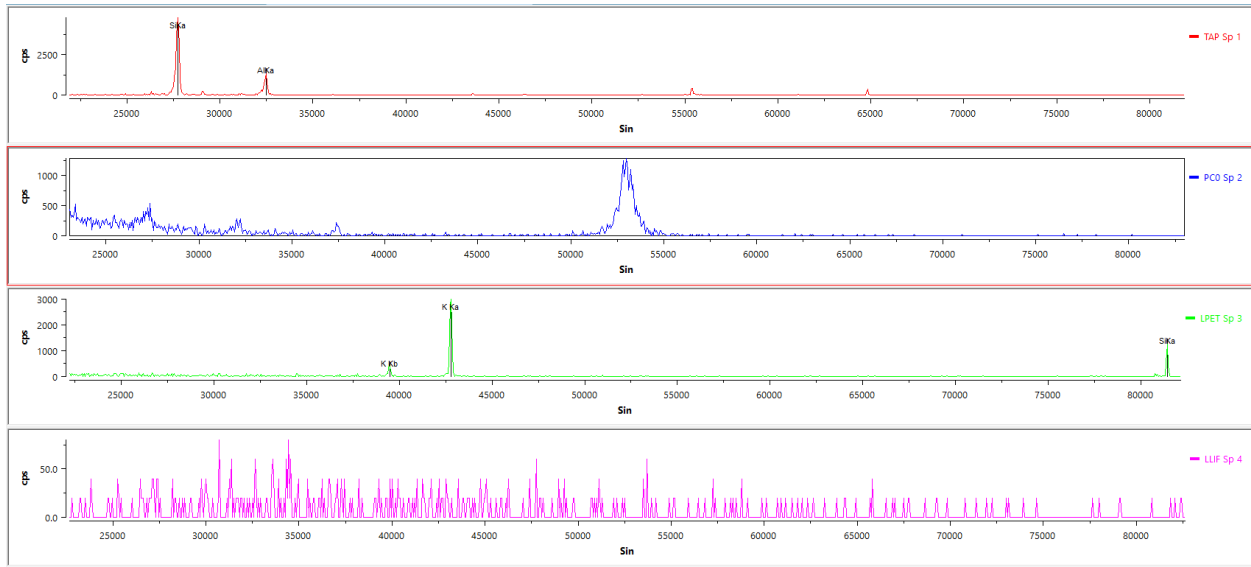


CND_Test_1- Aegirine-augite



CND_Test_3- Aegirine-augite

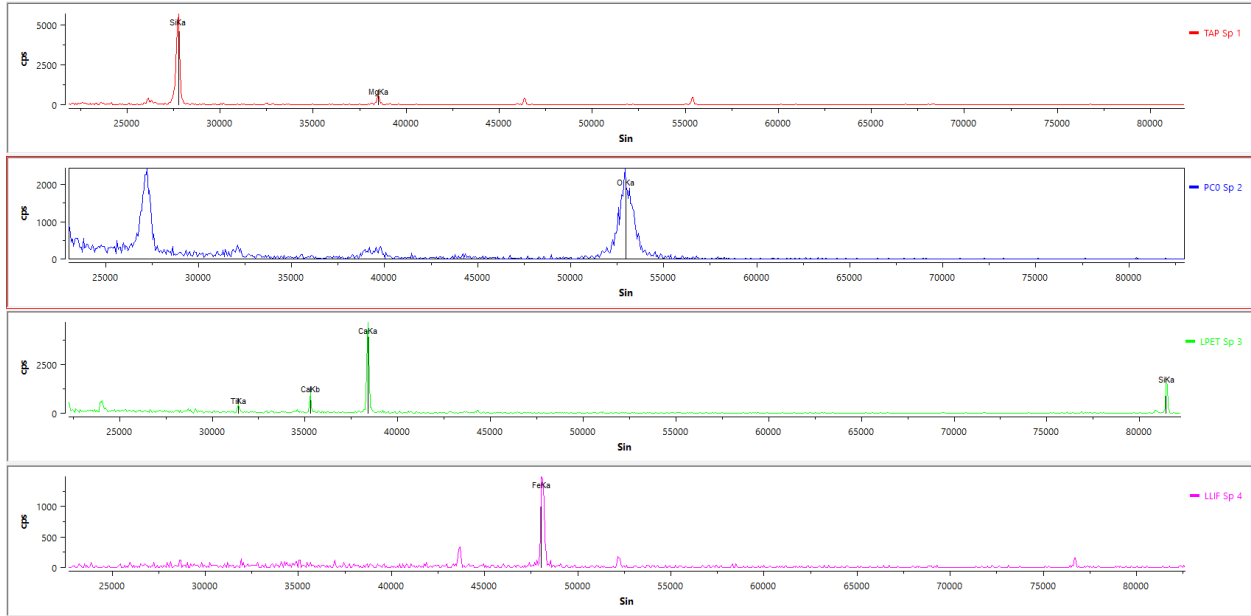
Feldspars and Feldspathoids



CND_Test_2- Potassium Feldspar

CORN 226- McVeigh Hills

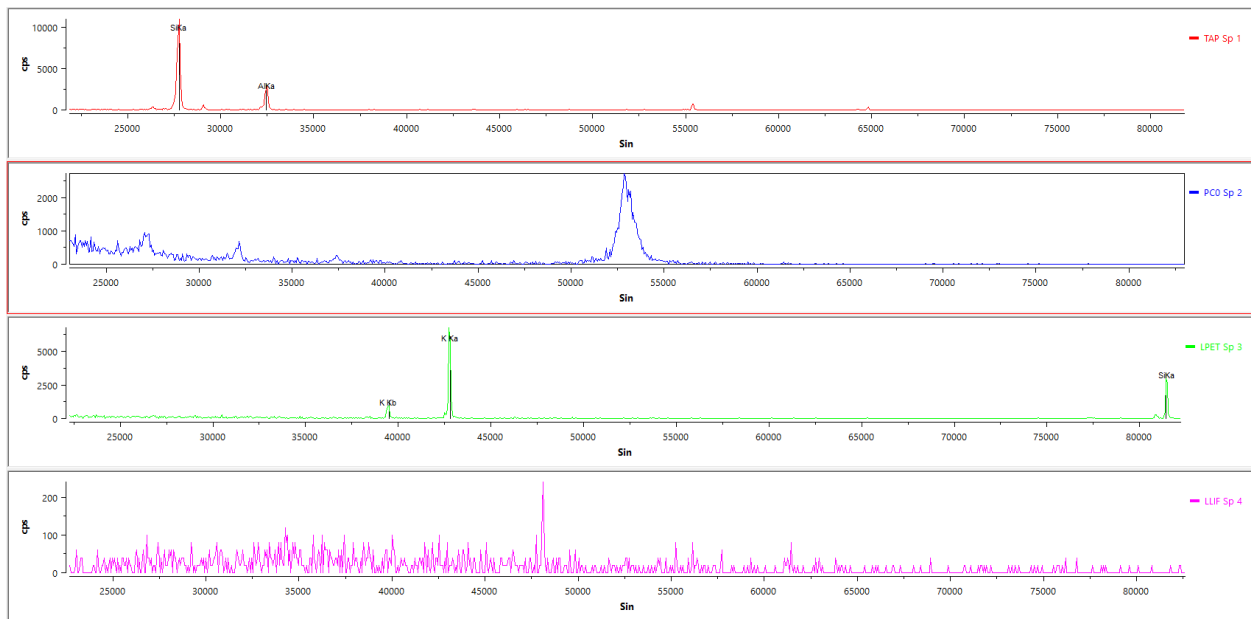
Pyroxenes



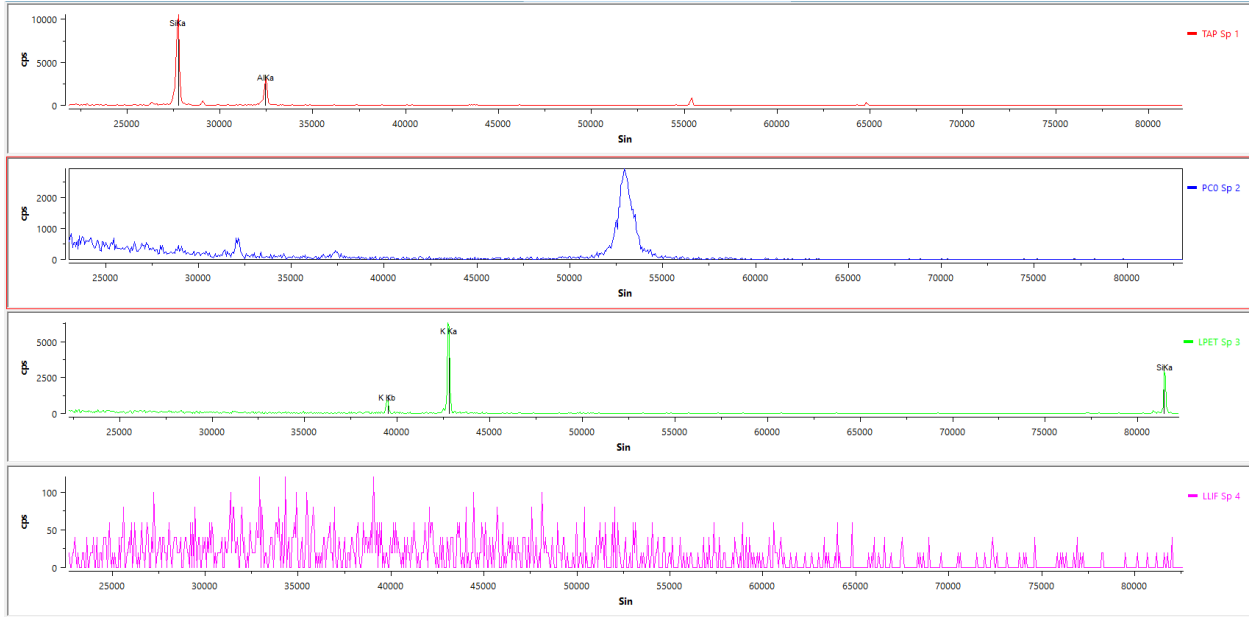
CORN226_1- Aegirine-augite

CORN 805- Wind Mountain Dike

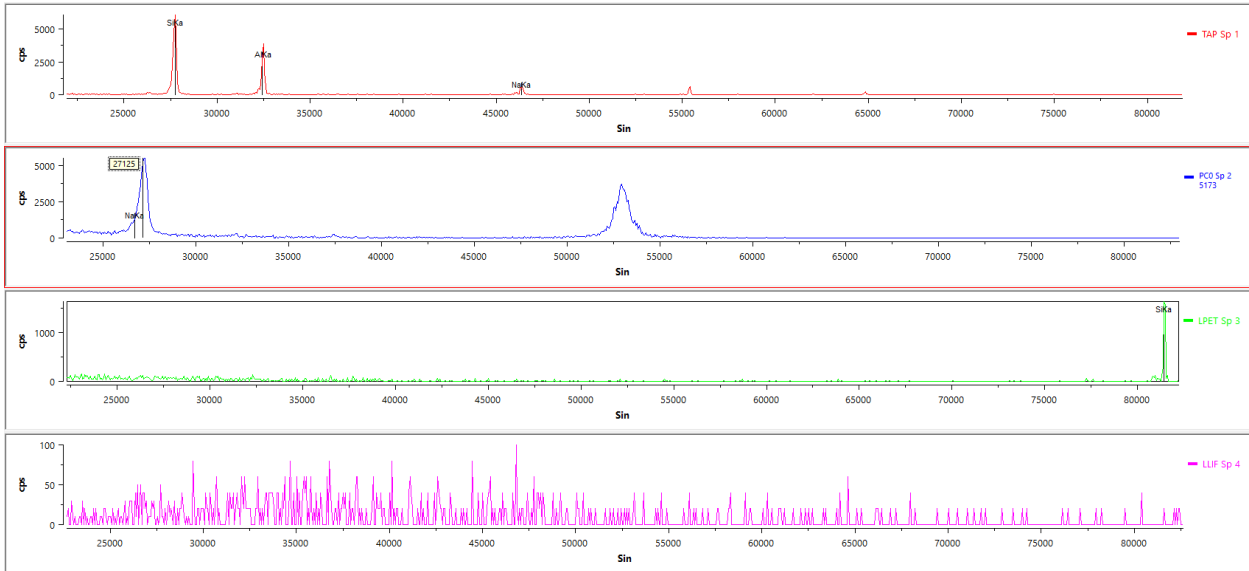
Feldspars and Feldspathoids



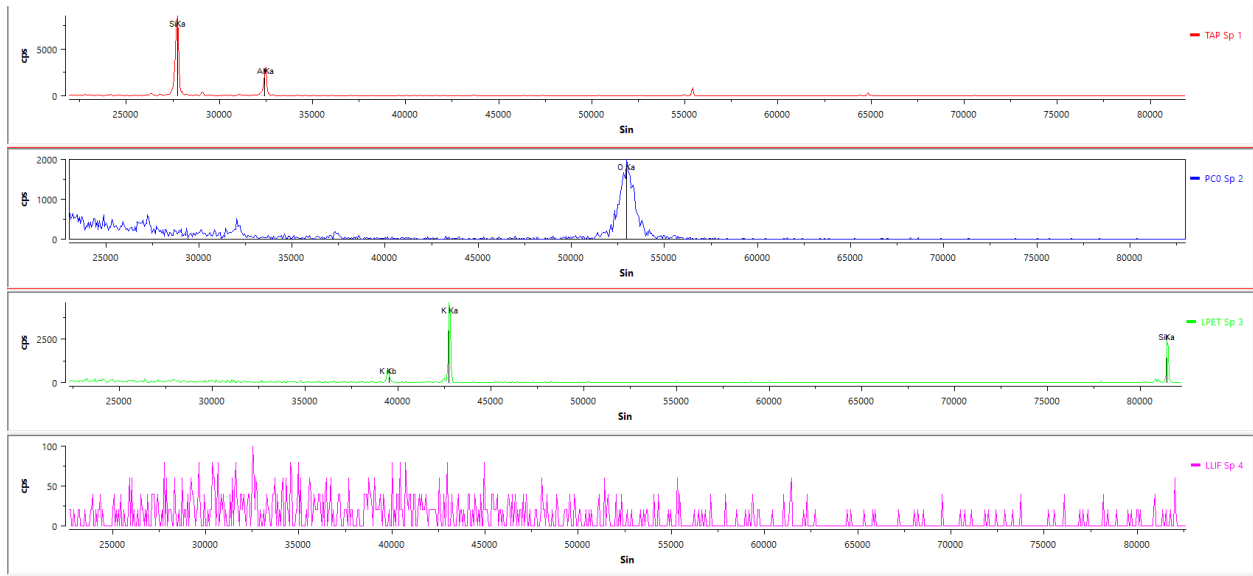
CORN805_1- Potassium Feldspar



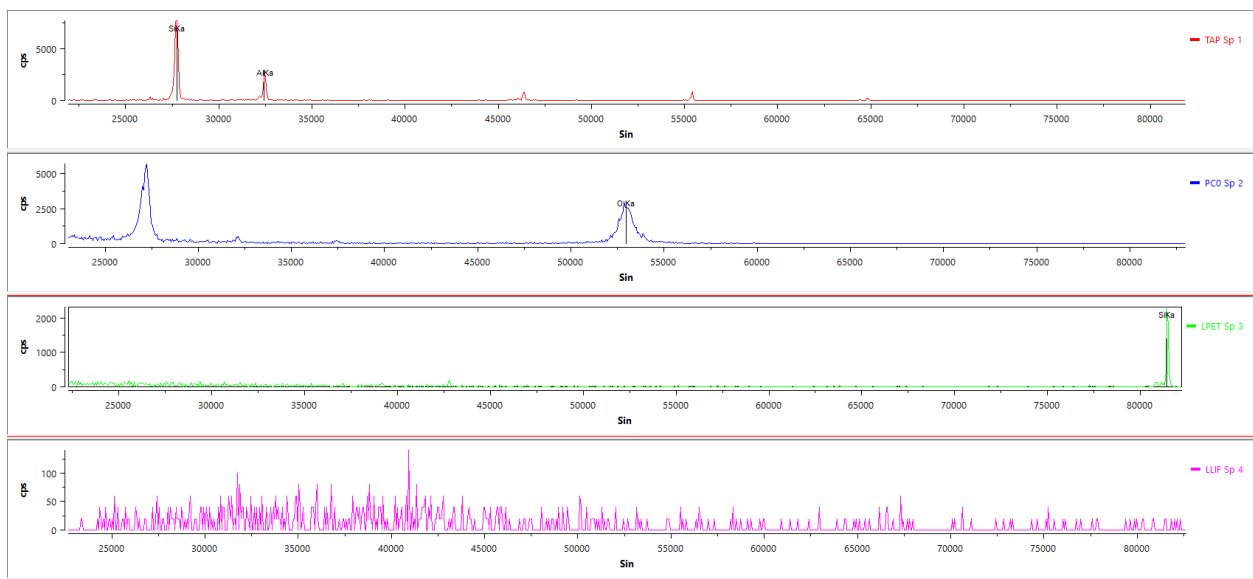
CORN805_3- Potassium Feldspar



CORN-805-WDS_1- Albite

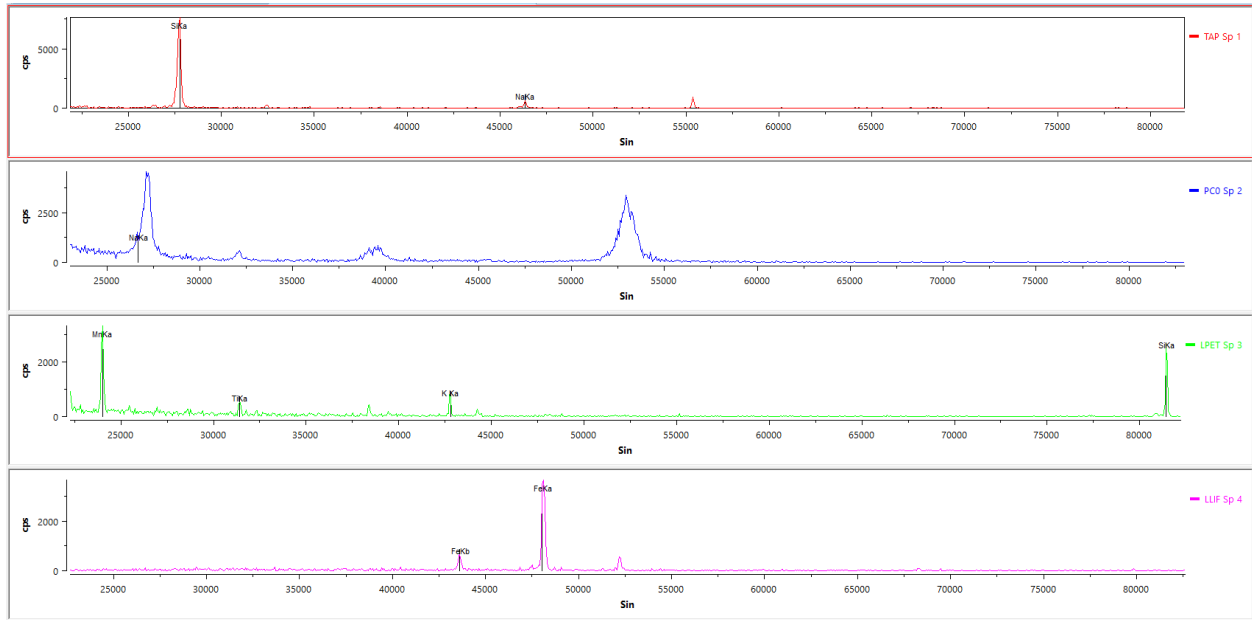


CORN-805-WDS_3- Potassium Feldspar

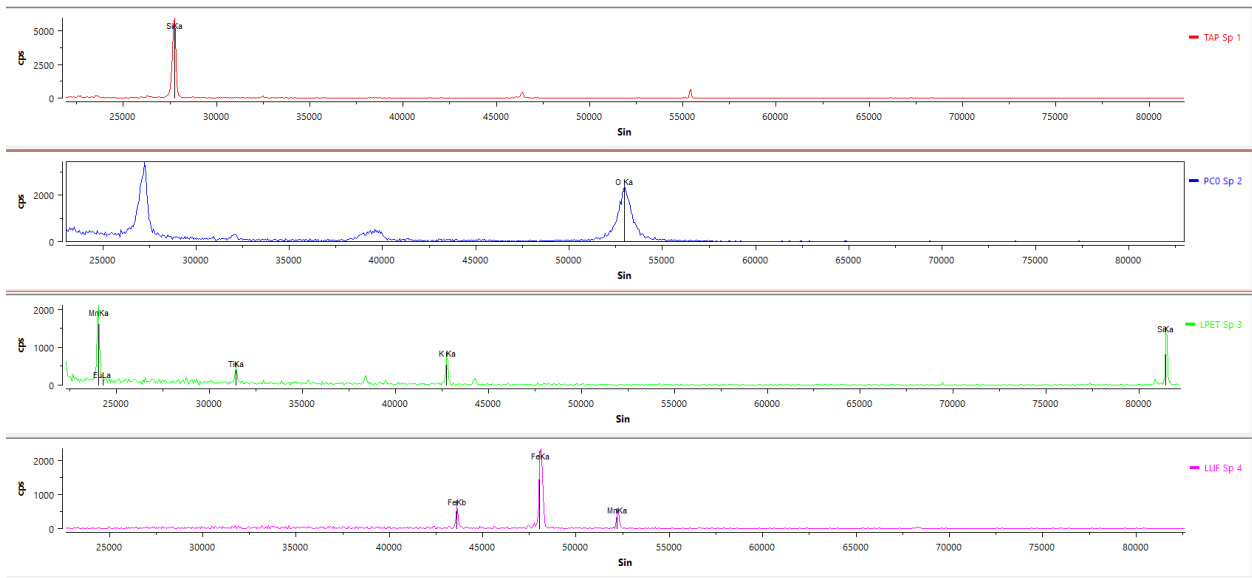


CORN-805-WDS_4- Albite

Amphiboles



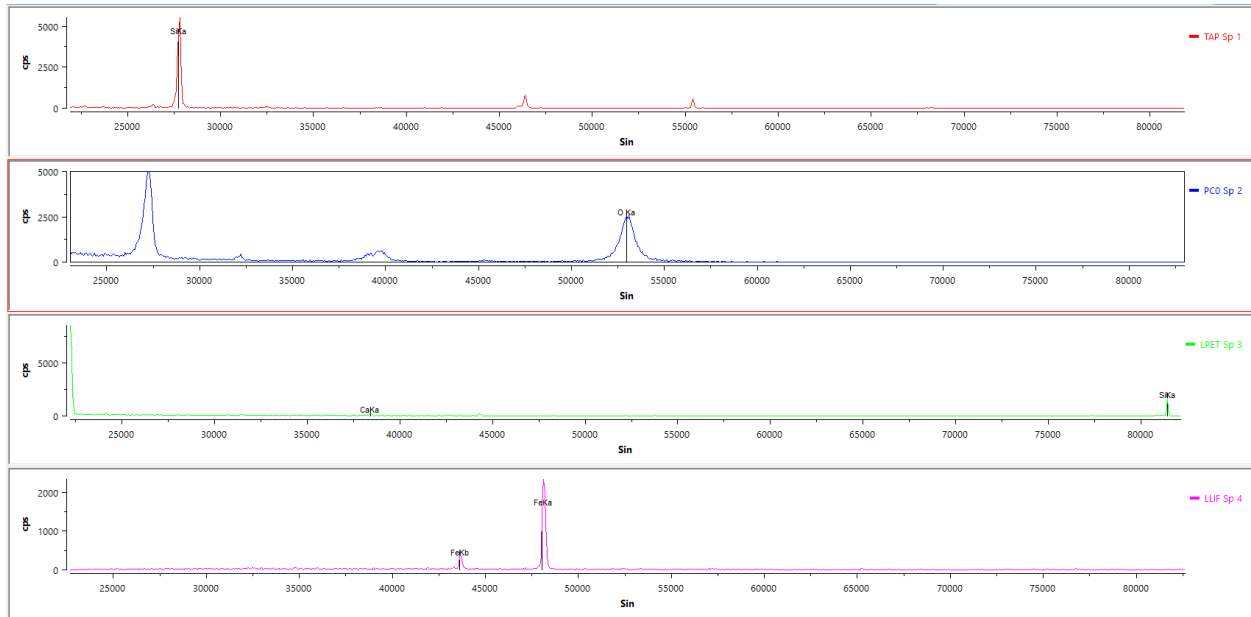
CORN805_2- Aenigmatite



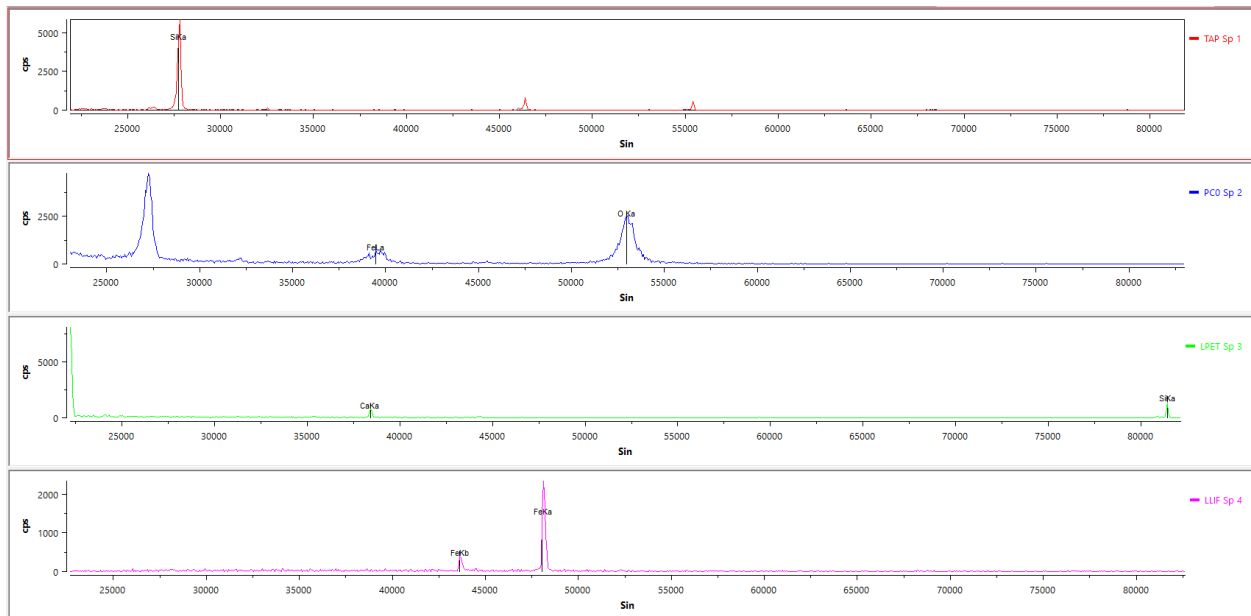
CORN-805-WDS_2- Aenigmatite

CORN-812- Wind Mountain

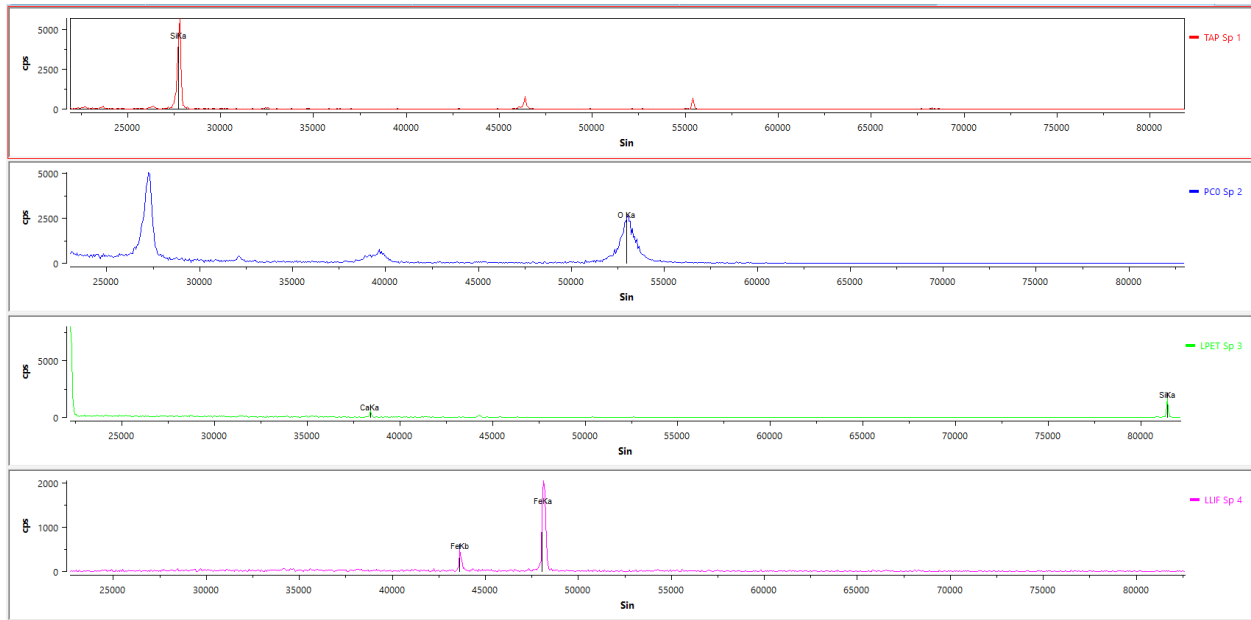
Pyroxenes



CORN-812_11- Aegirine

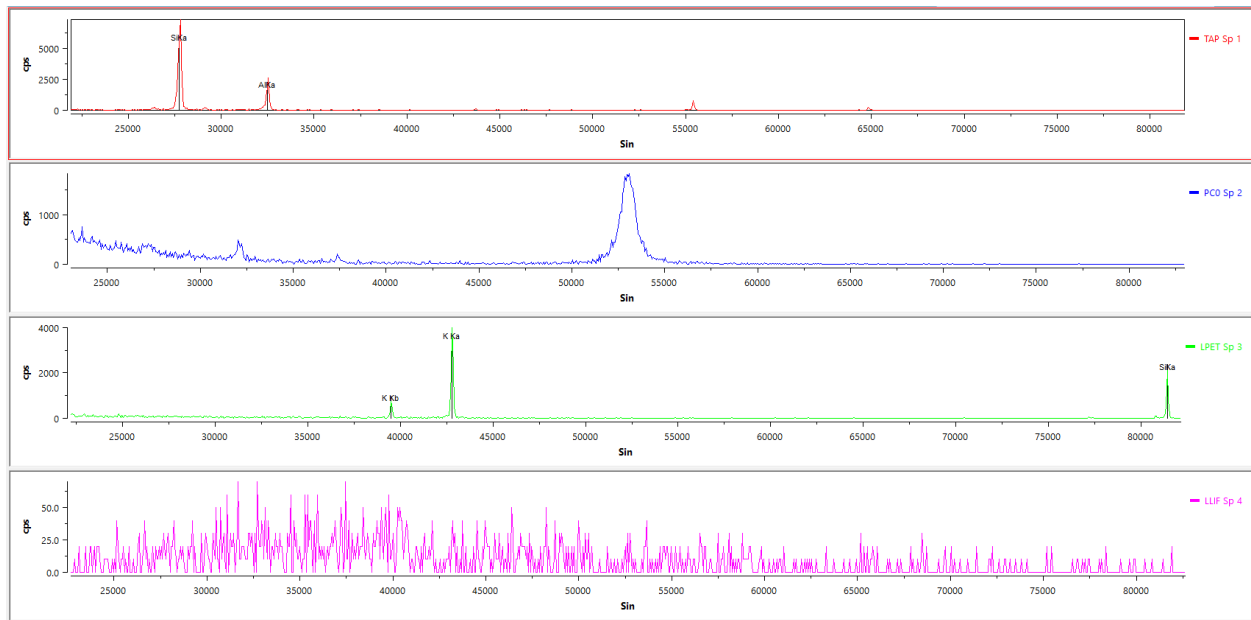


CORN-812_13- Aegirine

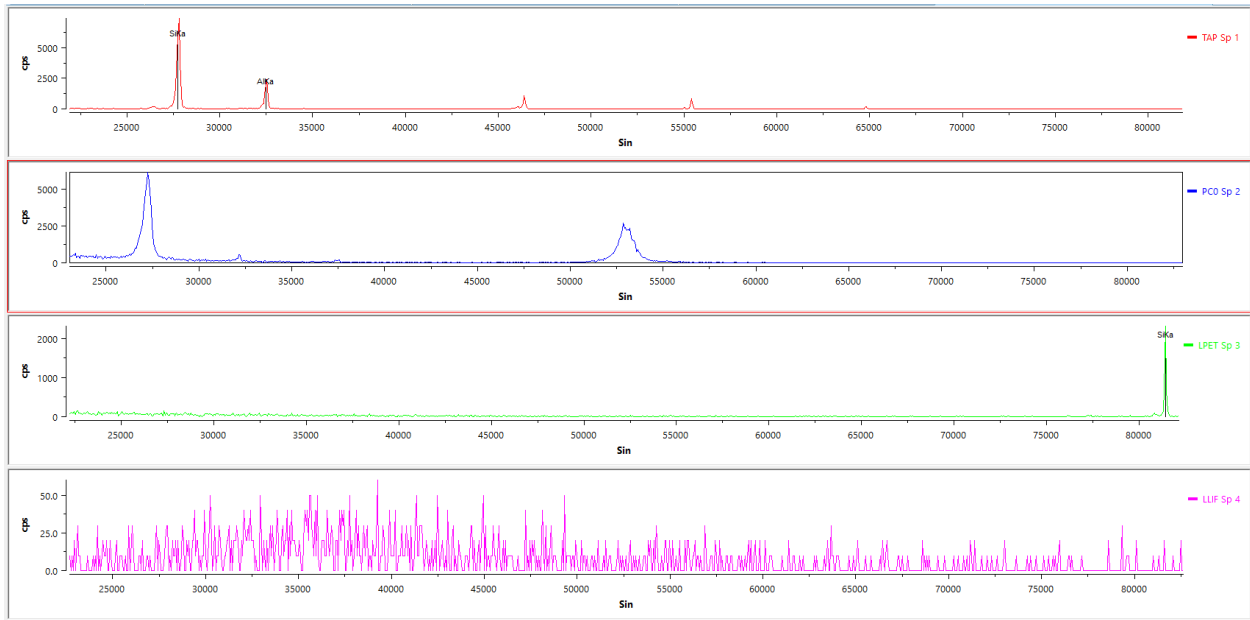


CORN-812_18- Aegirine

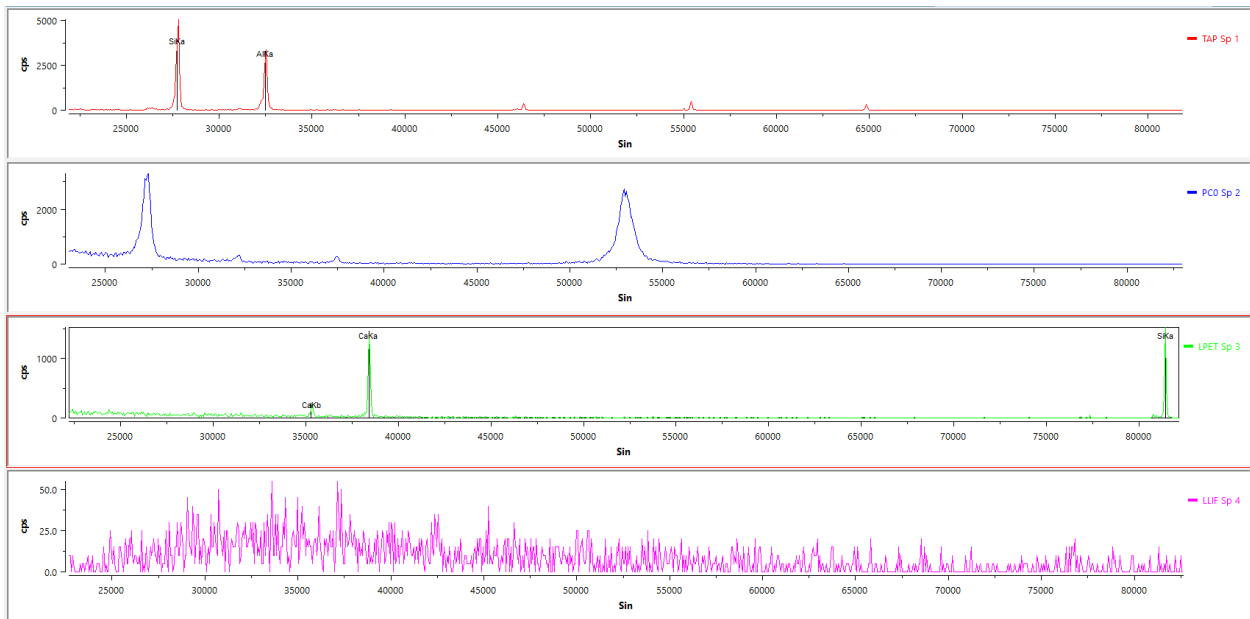
Feldspars and Feldspathoids



CORN-812_14- Potassium Feldspar

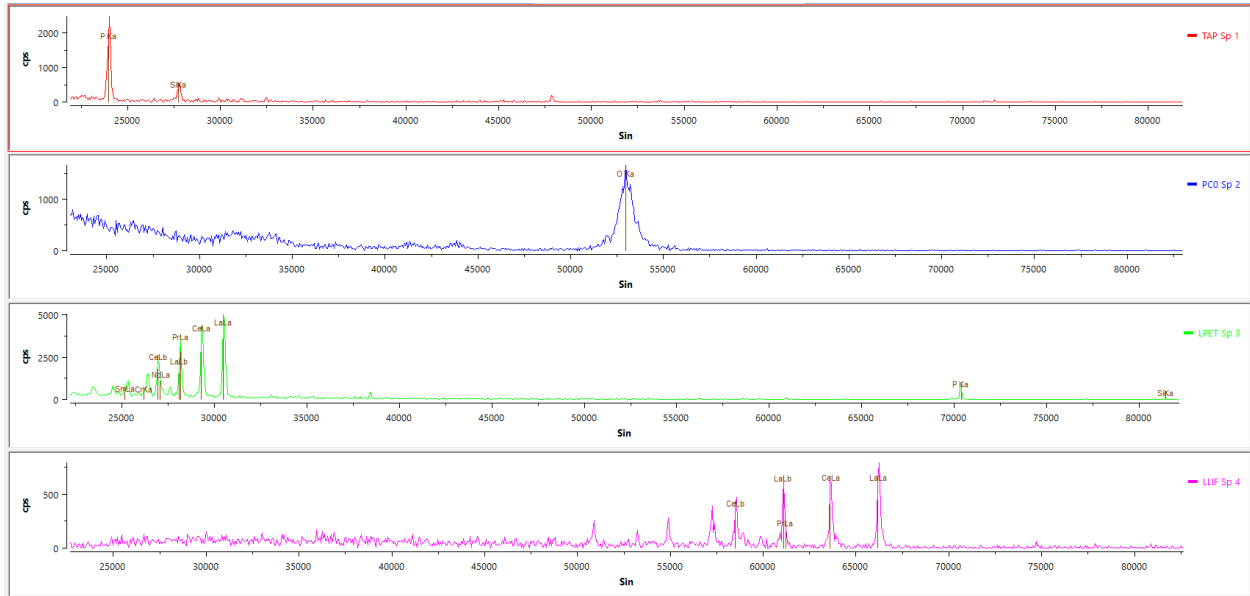


CORN-812_15- Albite

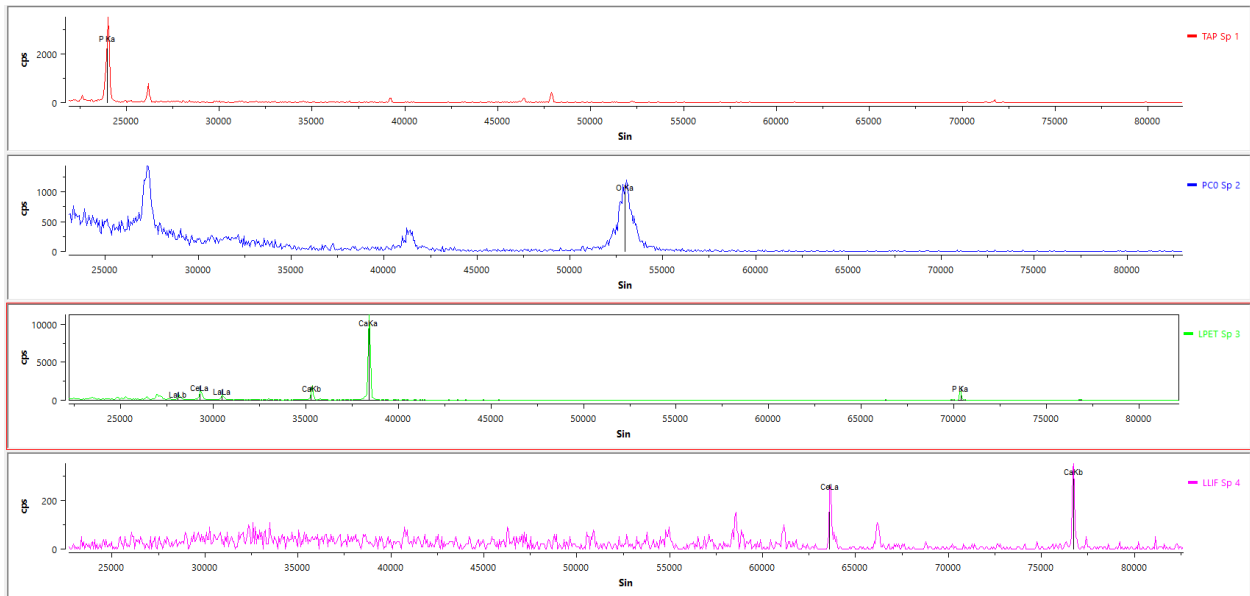


CORN-812_16- Cancrinite

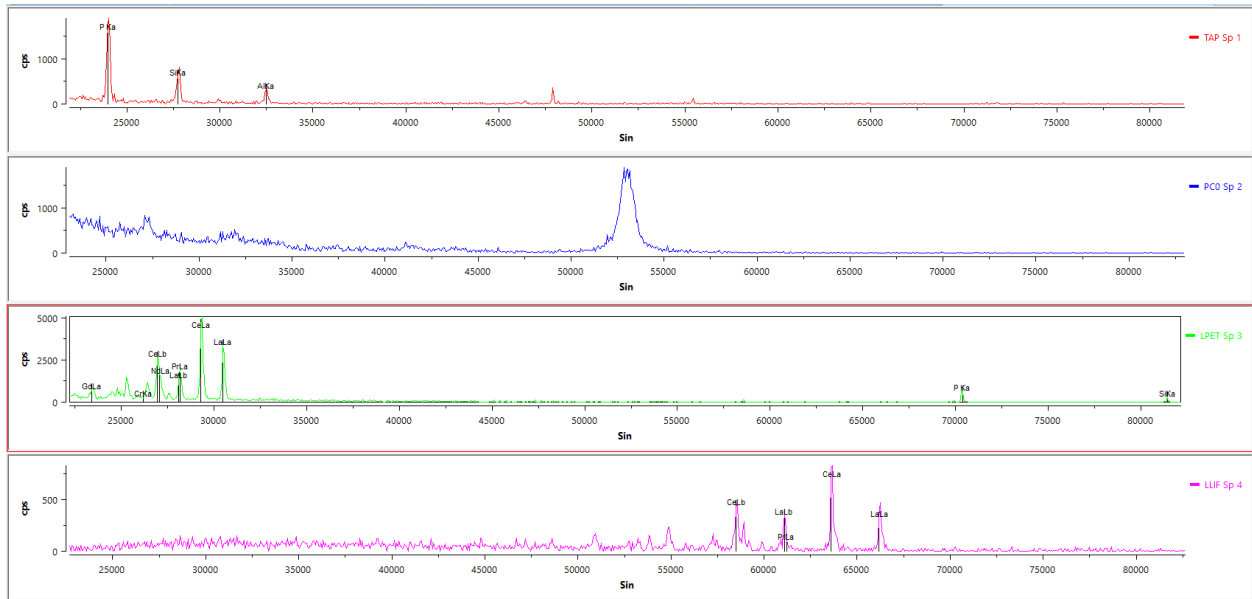
REE, Zr, and Nb Phases



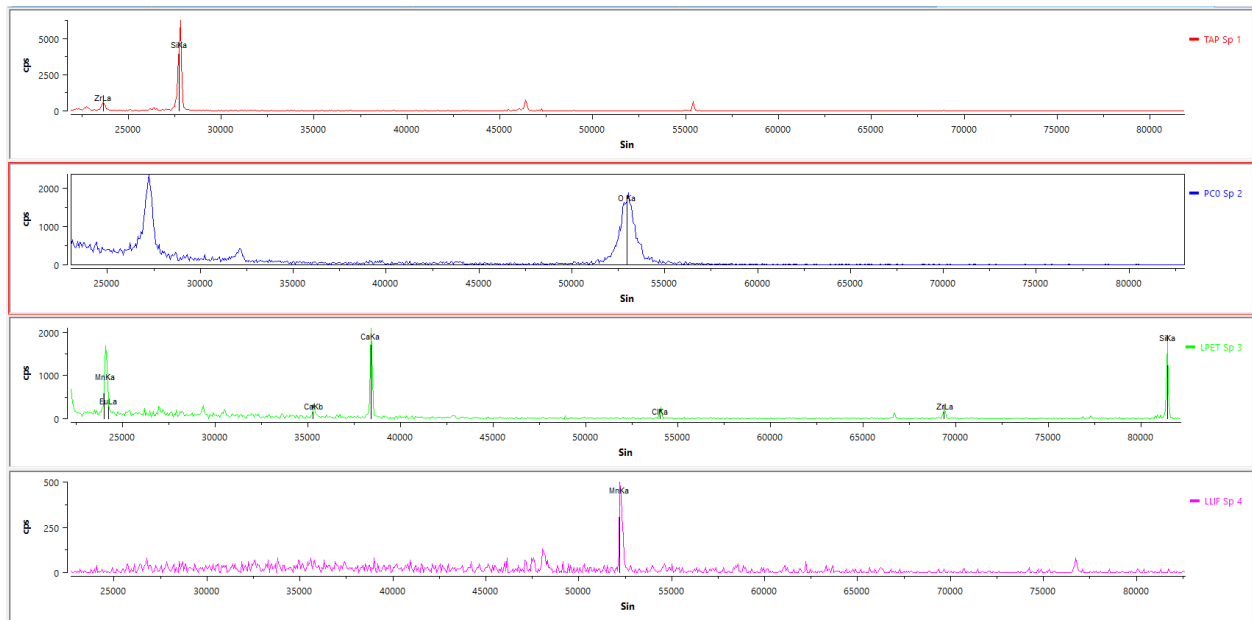
CORN-812_3- Monazite Mixed Phase



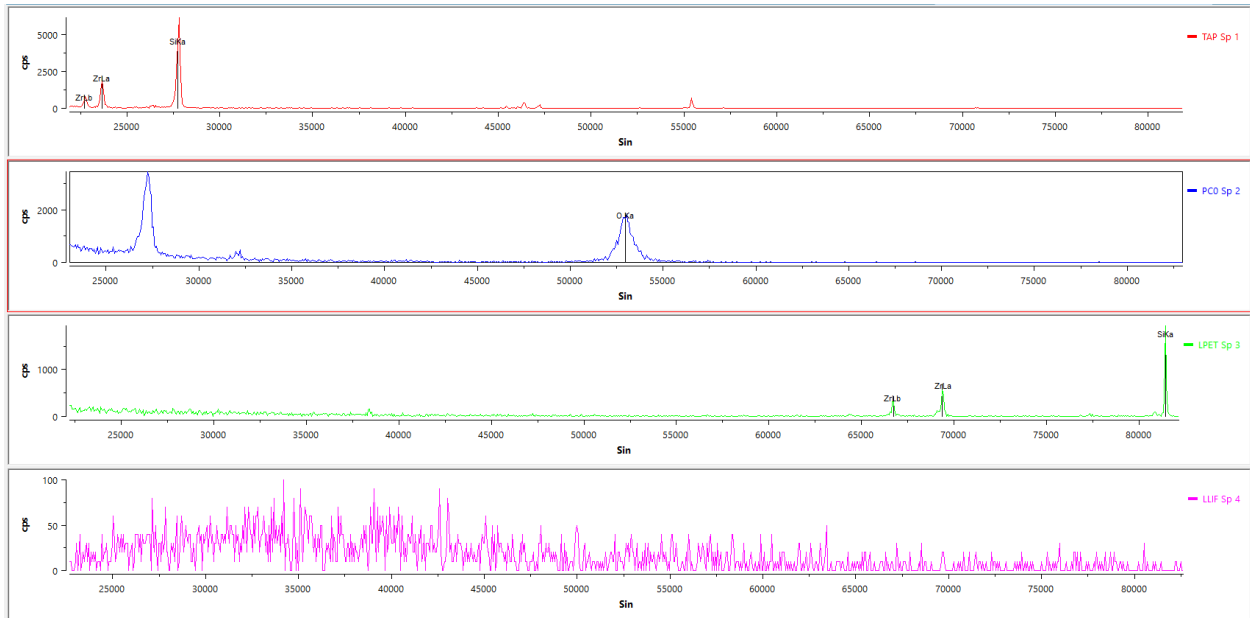
CORN-812_4- Vitusite



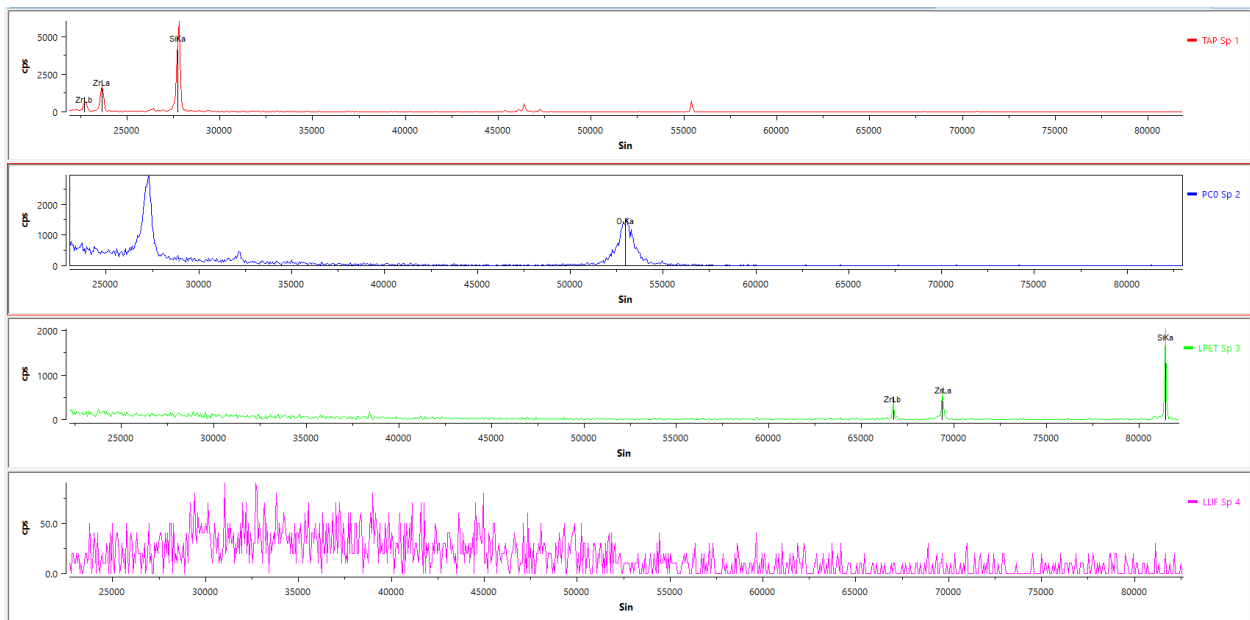
CORN-812_5- Monazite Mixed Phase



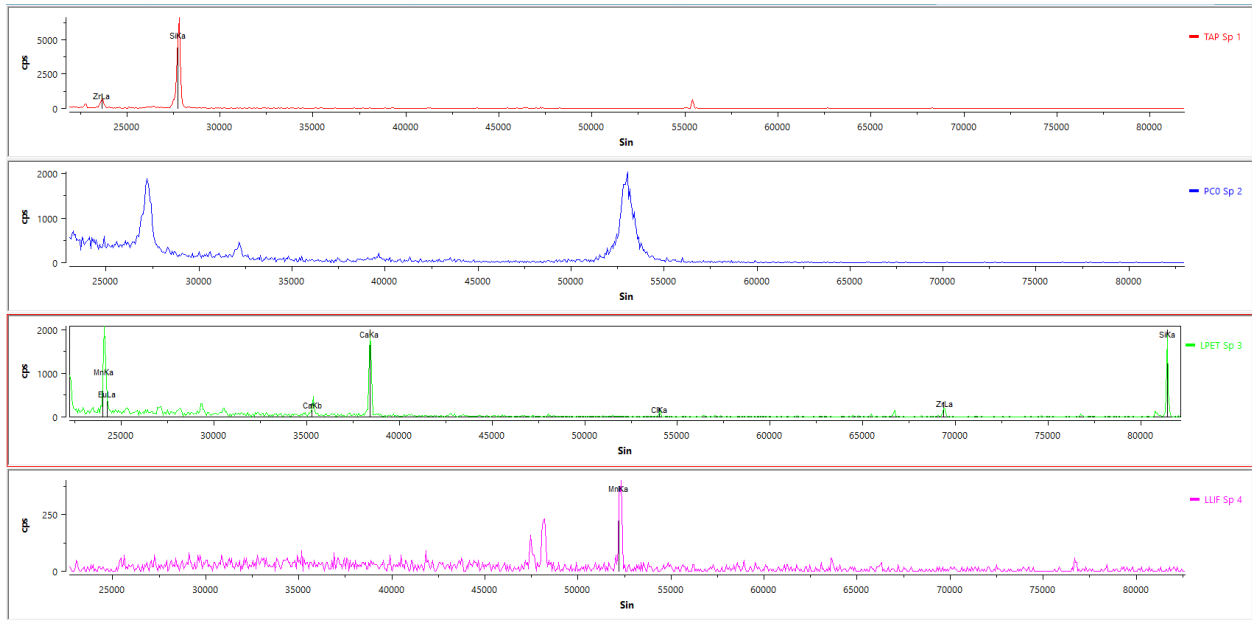
CORN-812_12- Manganoeudialyte



CORN-812_17- Catapleiite

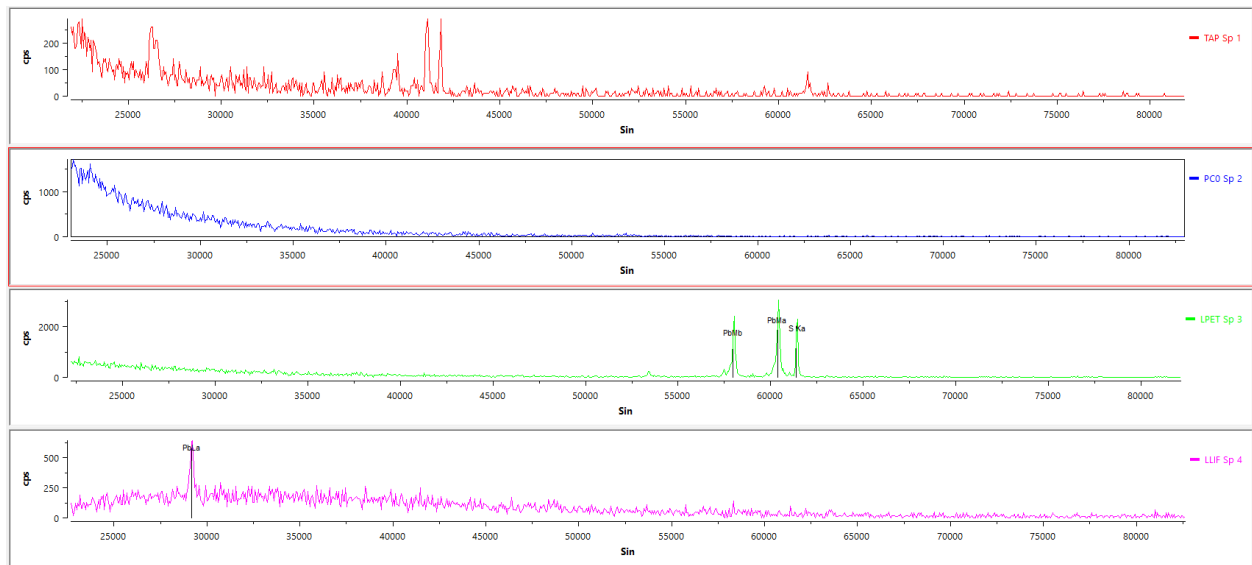


CORN-812_19- Catapleiite

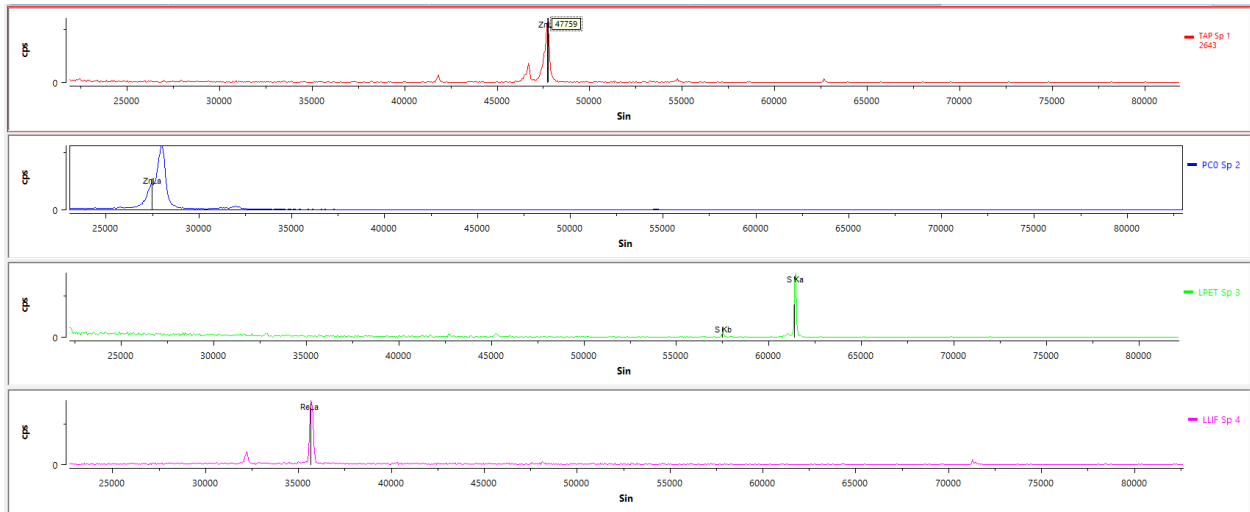


CORN-812_20- Manganoedialyte

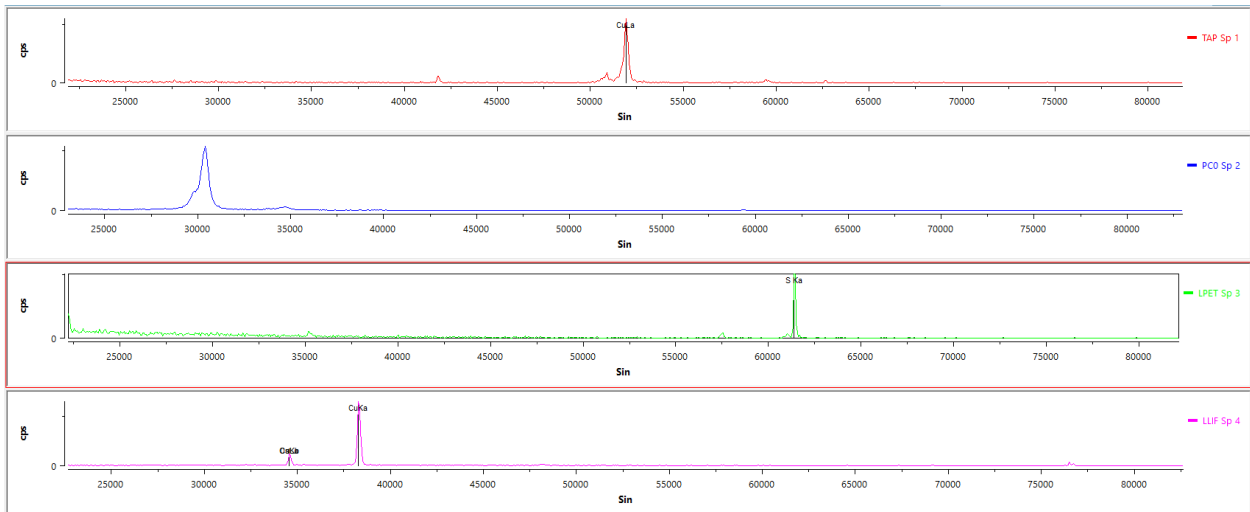
Sulfides



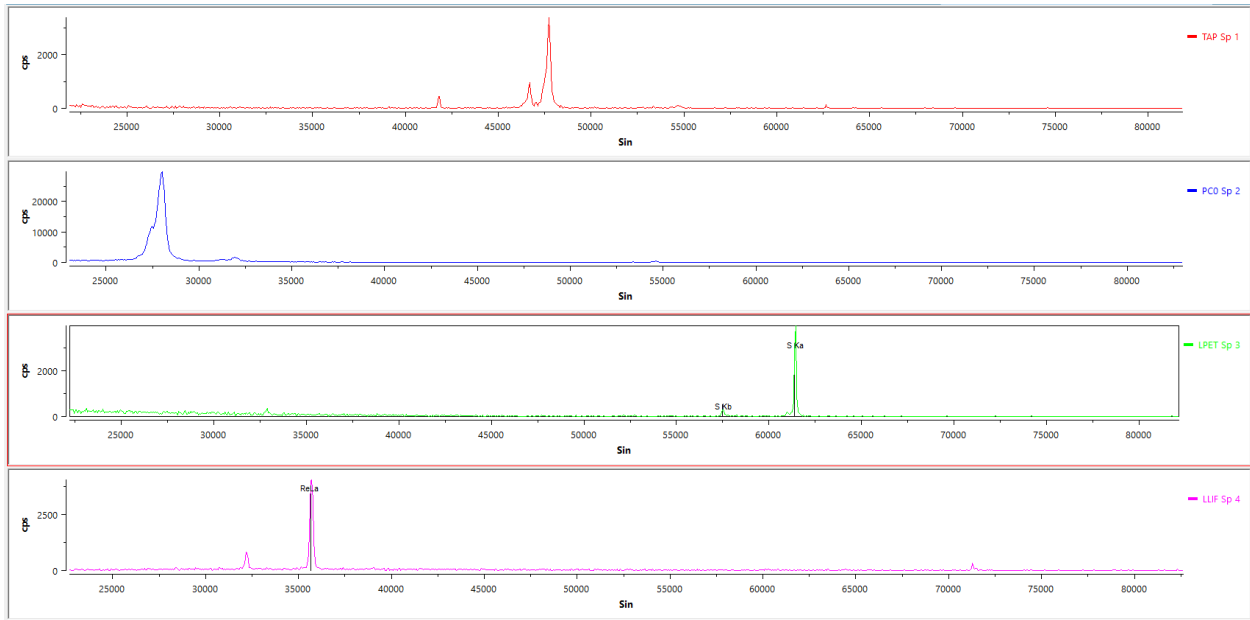
CORN-812_1- Galena



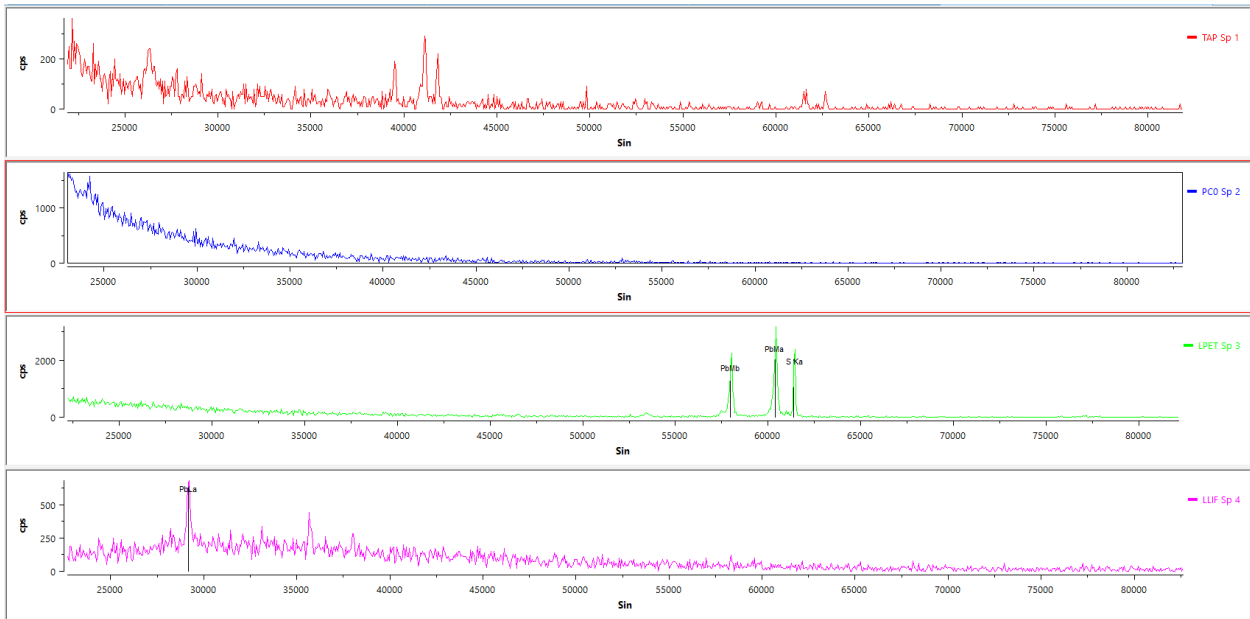
CORN-812_6- Rhenite + Sphalerite



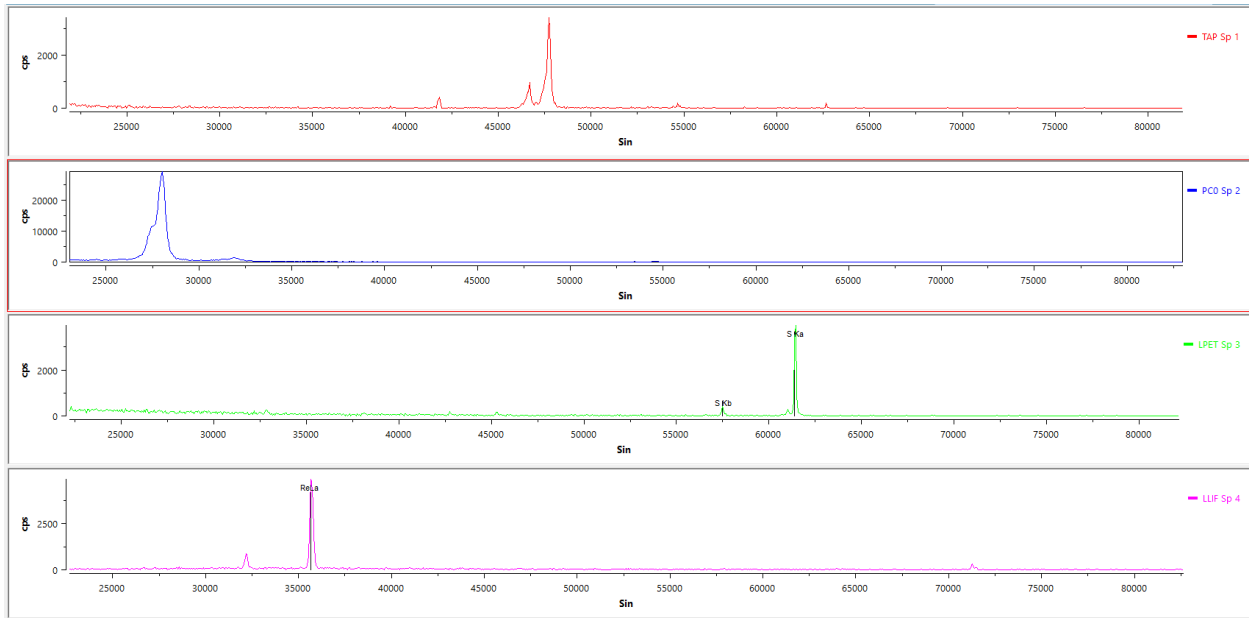
CORN-812_7- Copper Sulfide



CORN-812_8- Rhenite + Sphalerite



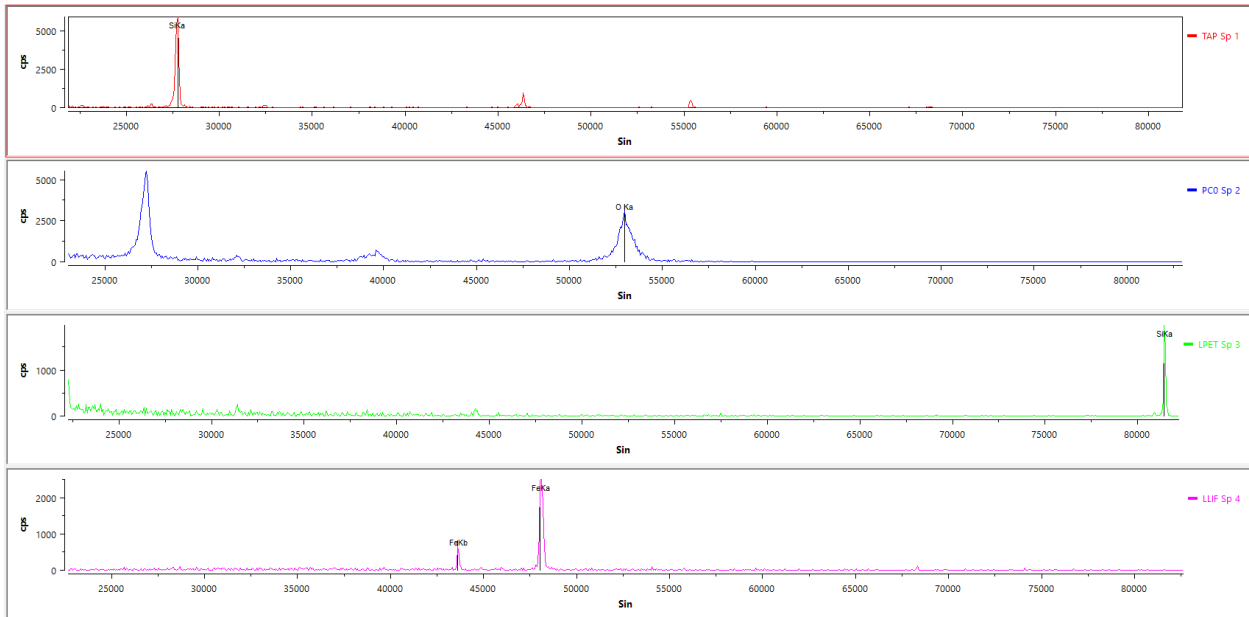
CORN-812_9- Galena



CORN-812_10- Rhenite + Sphalerite

CORN 814- Wind Mountain

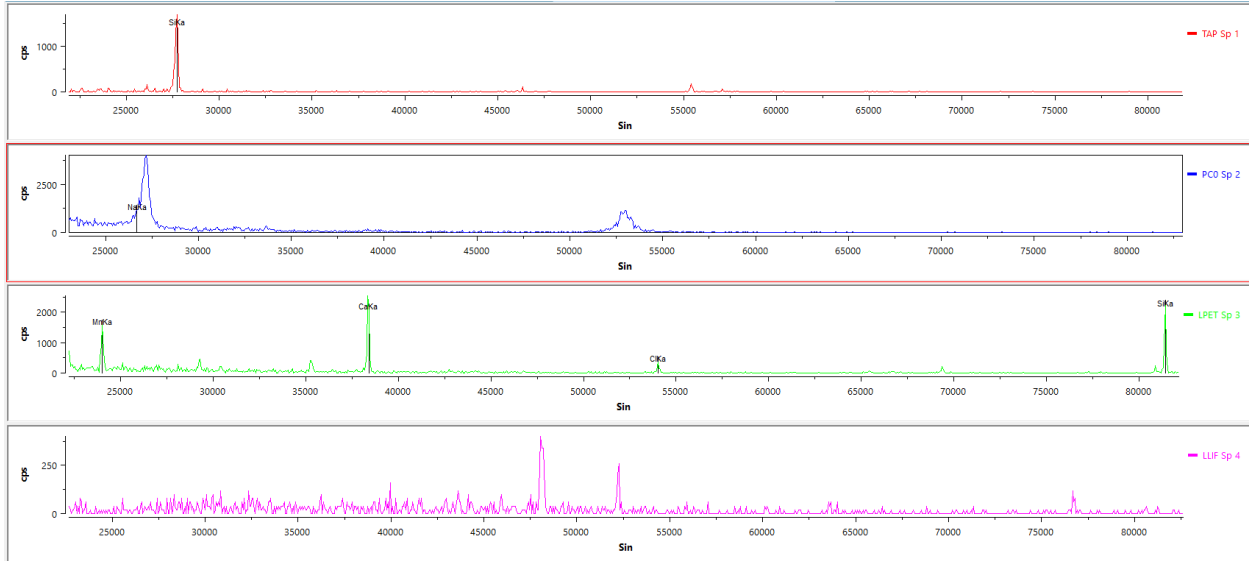
Amphiboles



CORN814_1- Arfvedsonite

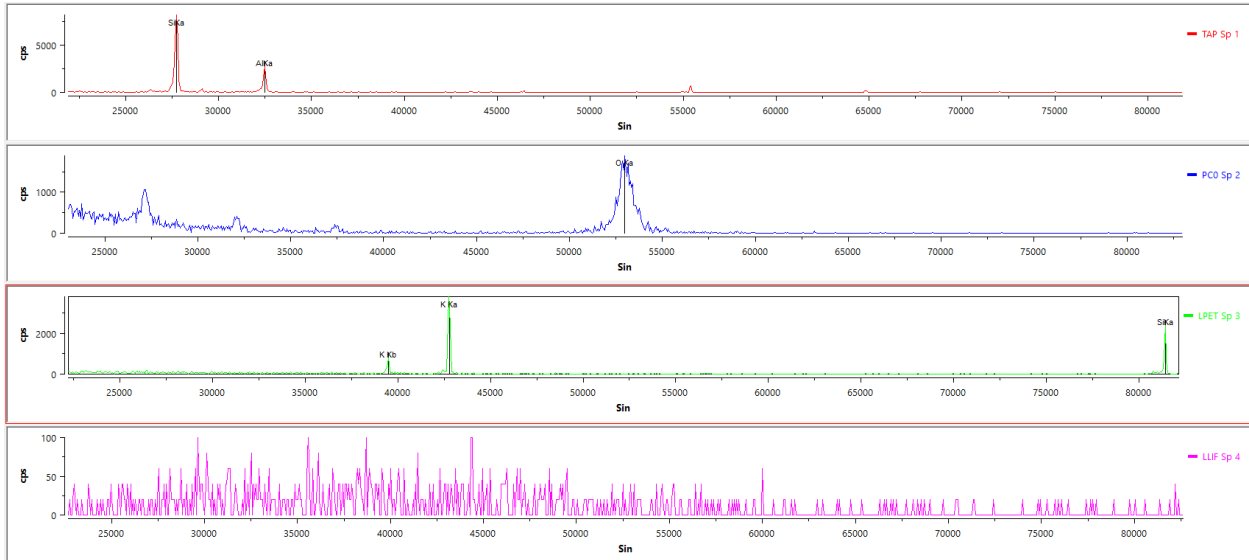
CORN 20-01- South Wind Mountain Sill

Pyroxenes

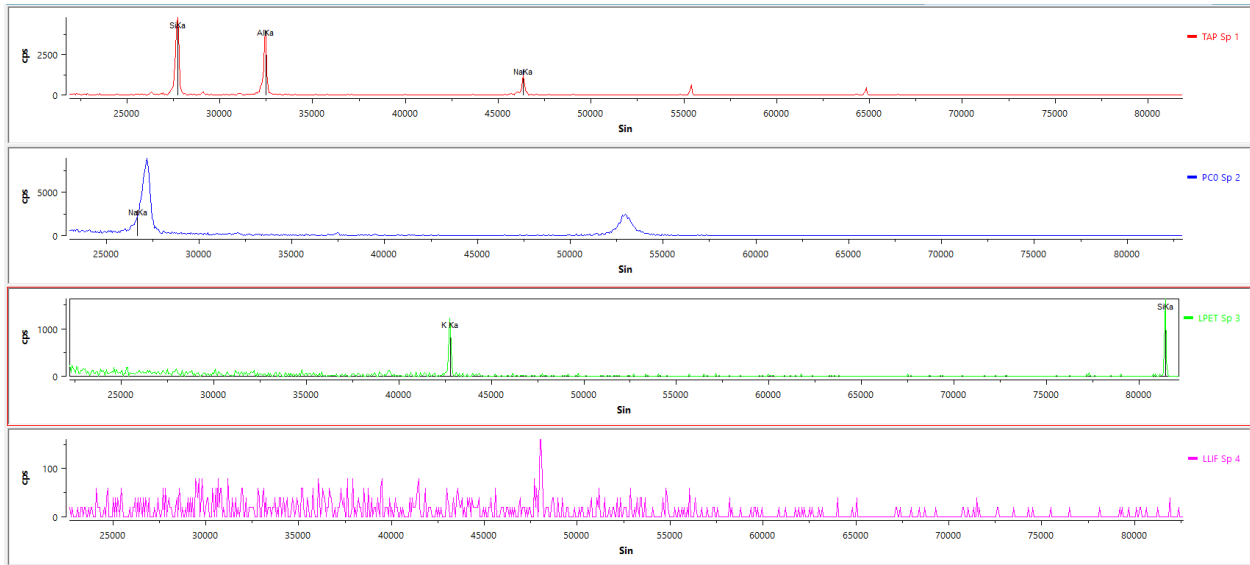


CORN-20-01_3- Aegirine-augite

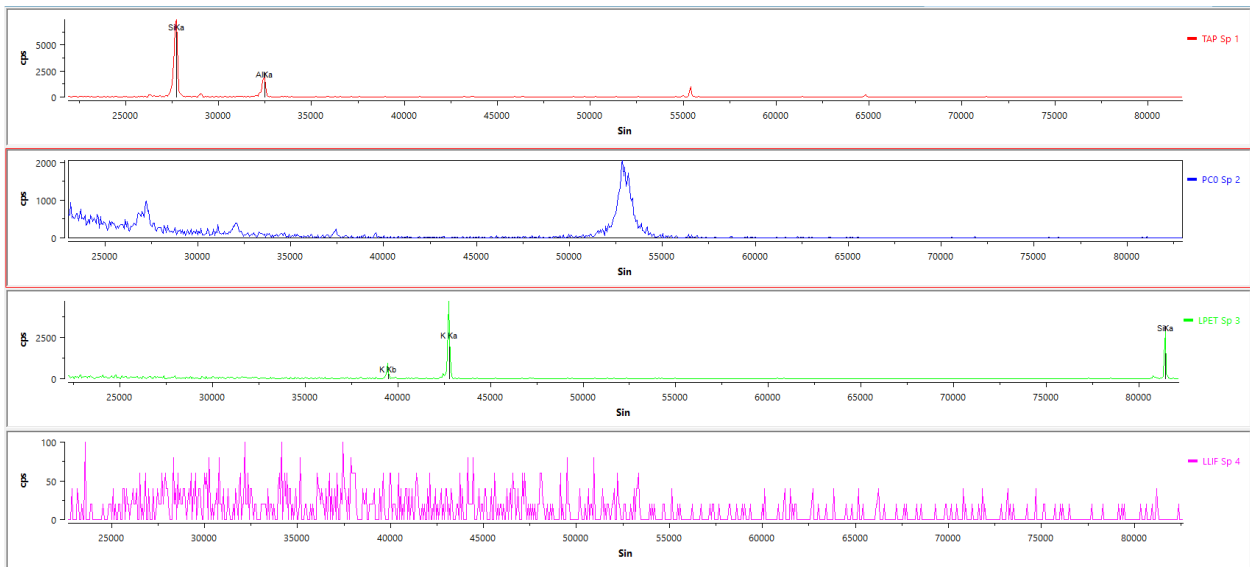
Feldspars and Feldspathoids



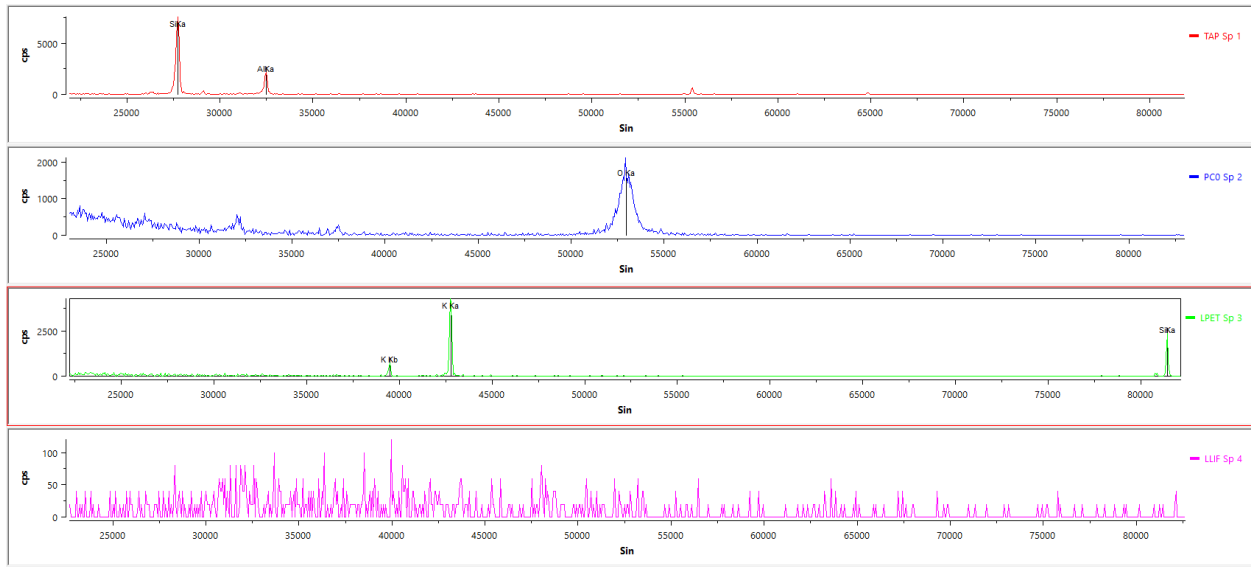
CORN-20-01_26



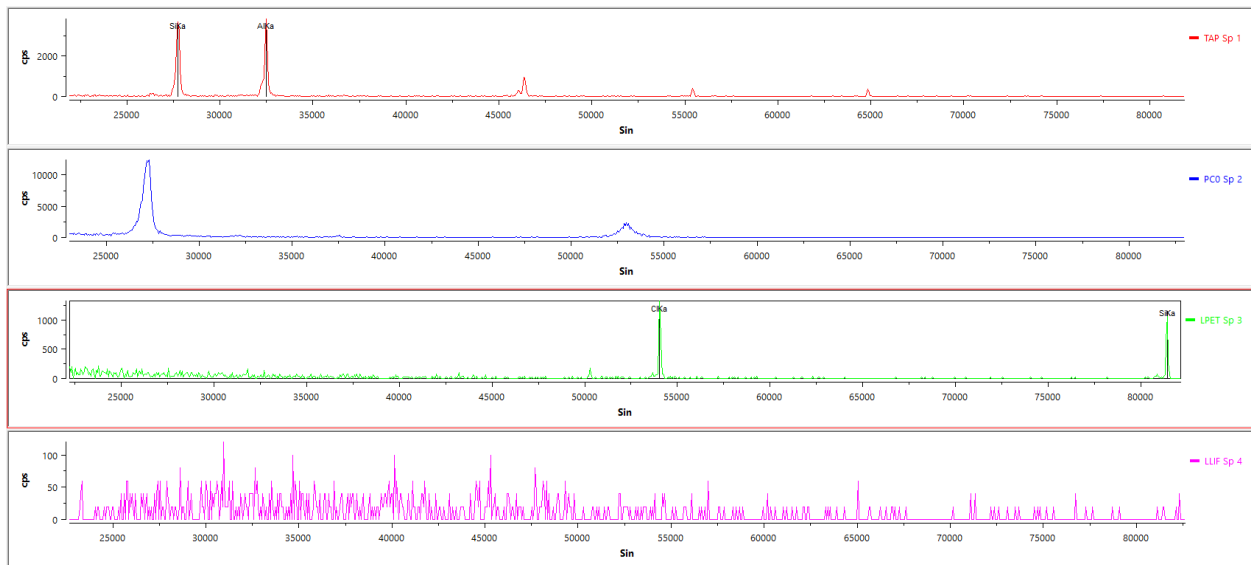
CORN-20-01_27- Nepheline



CORN-20-01_28-Potassium Feldspar

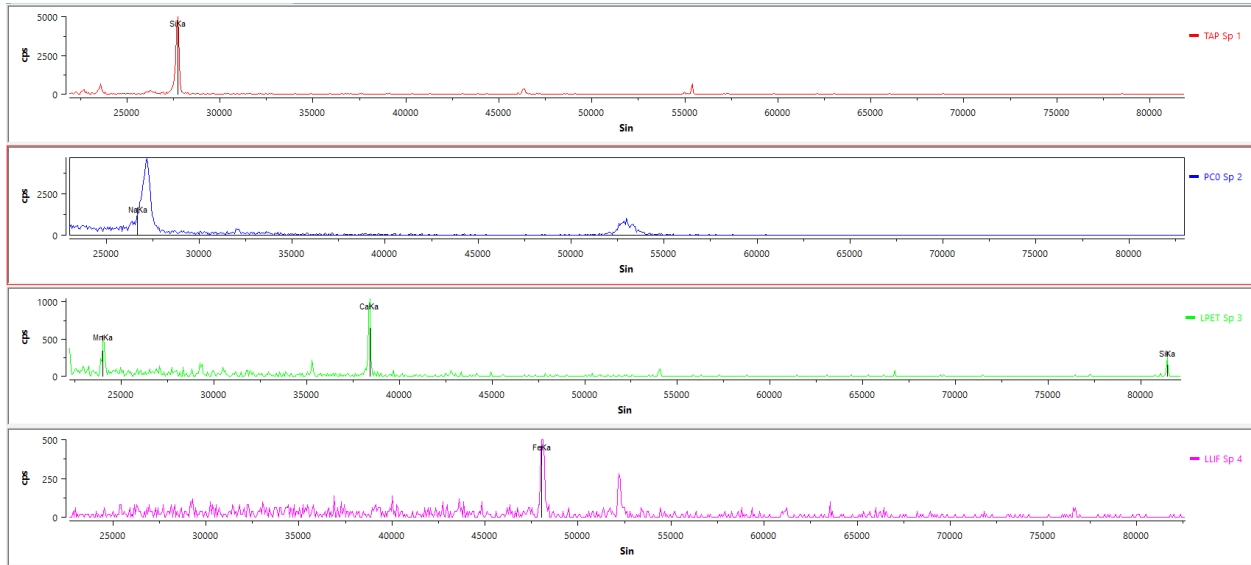


CORN-20-01_29- Potassium Feldspar

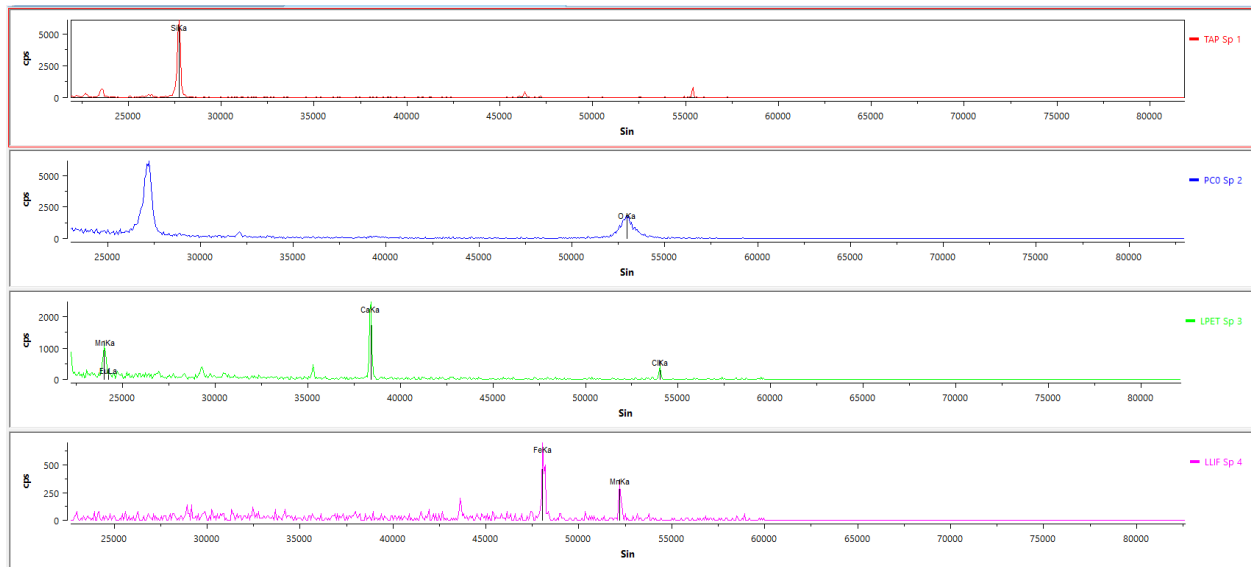


CORN-20-01_30- Sodalite

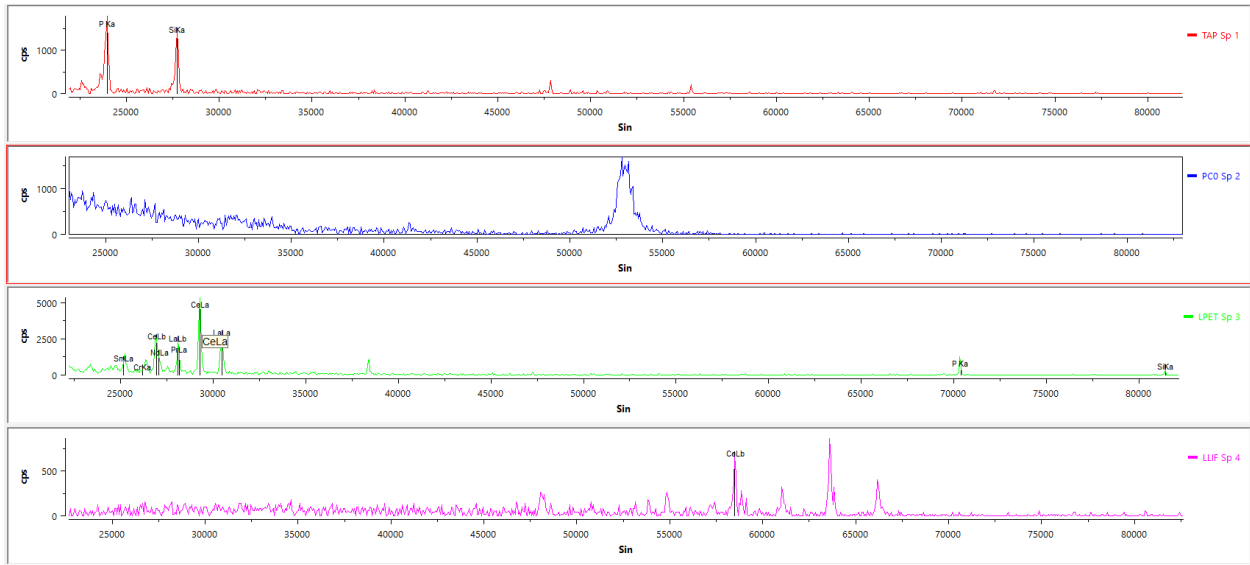
REE, Zr, and Nb Phases



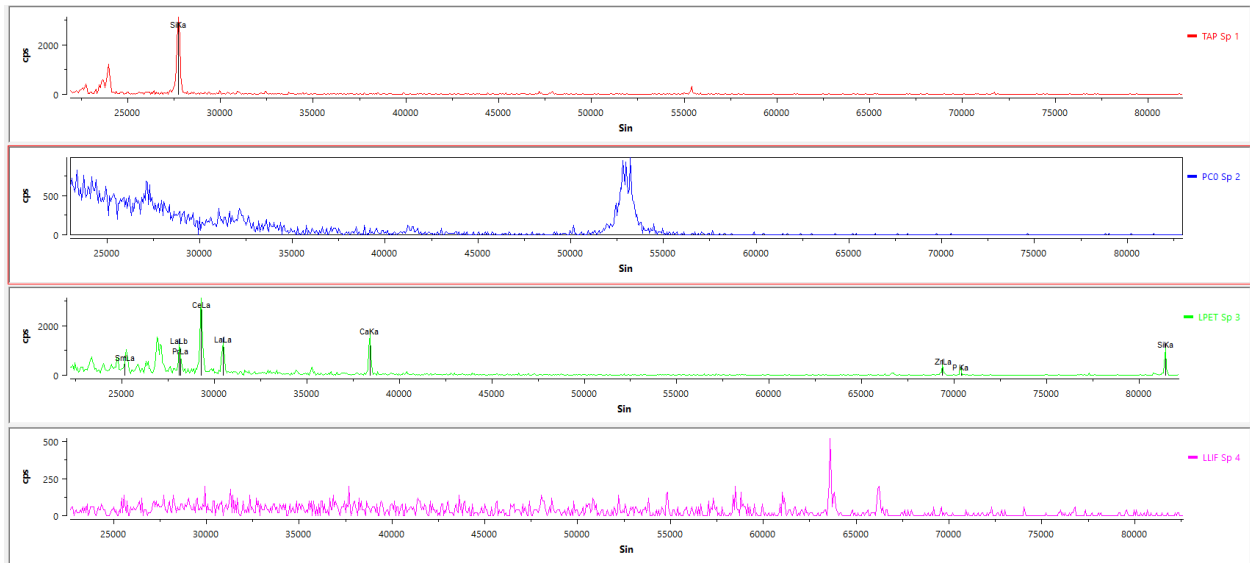
CORN-20-01_1- Manganoeudialyte



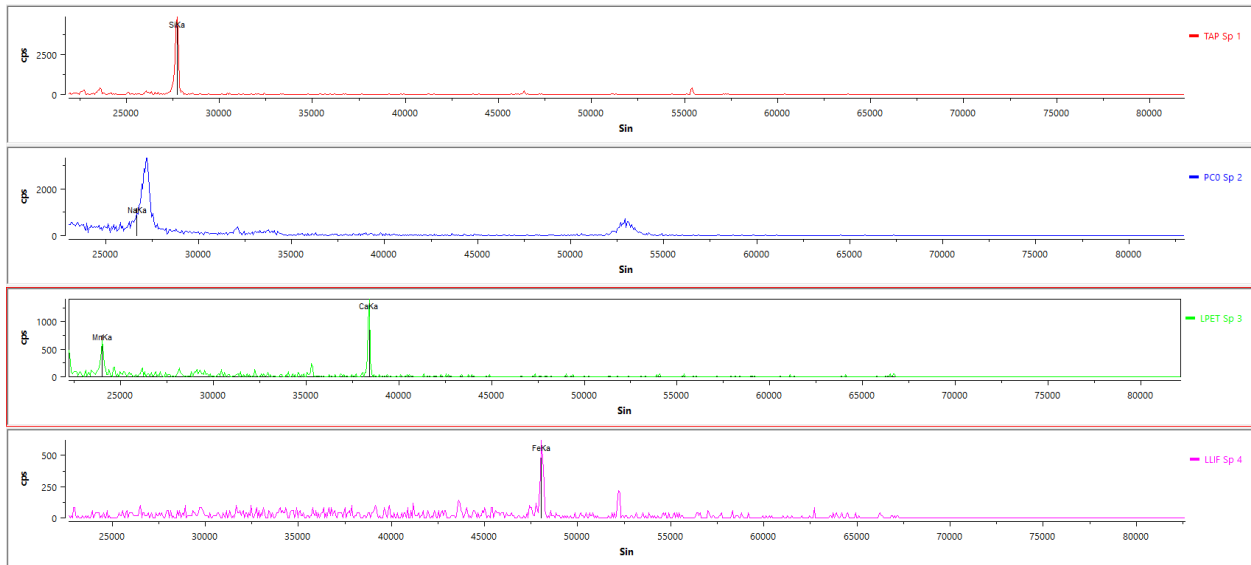
CORN-20-01_2- Manganoeudialyte



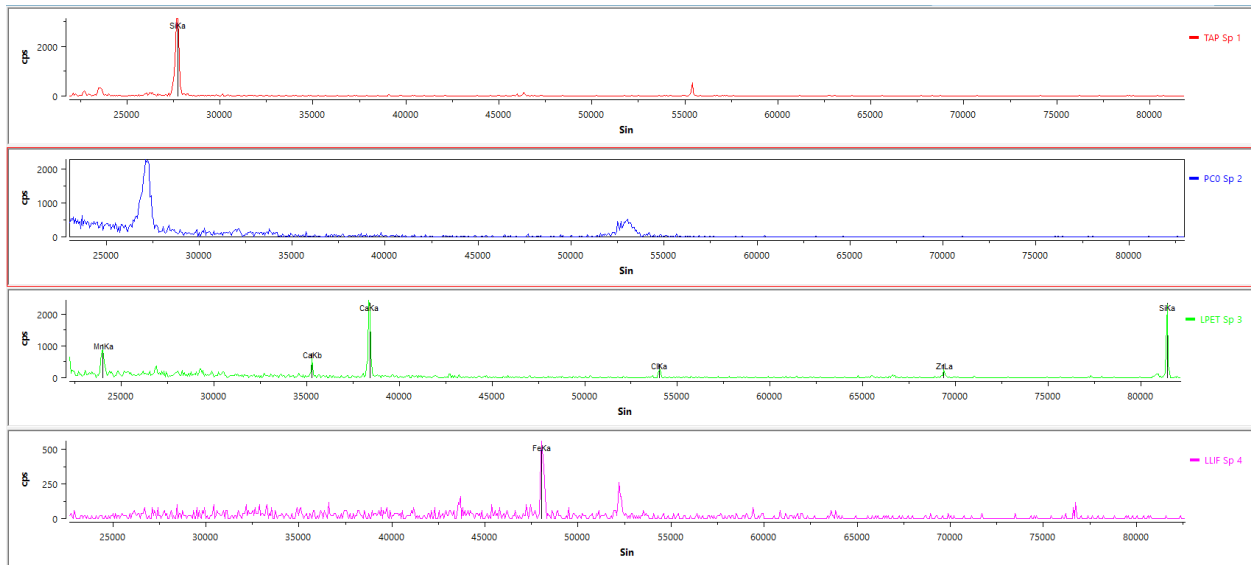
CORN-20-01_4- Monazite Mixed Phase



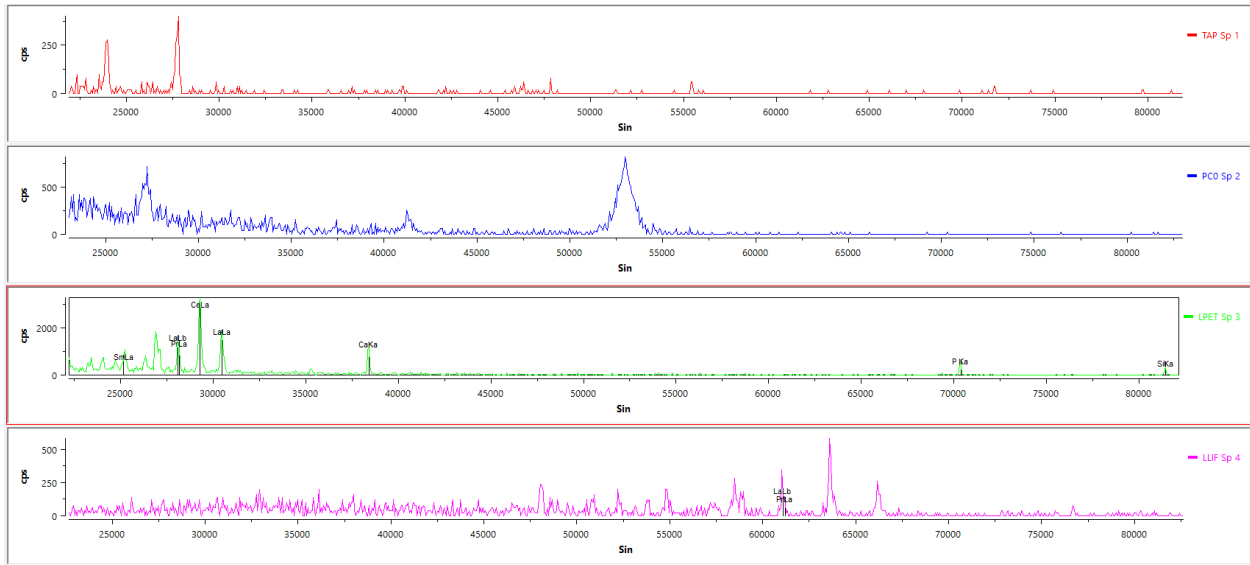
CORN-20-01_5- Calciocatapleite + Monazite



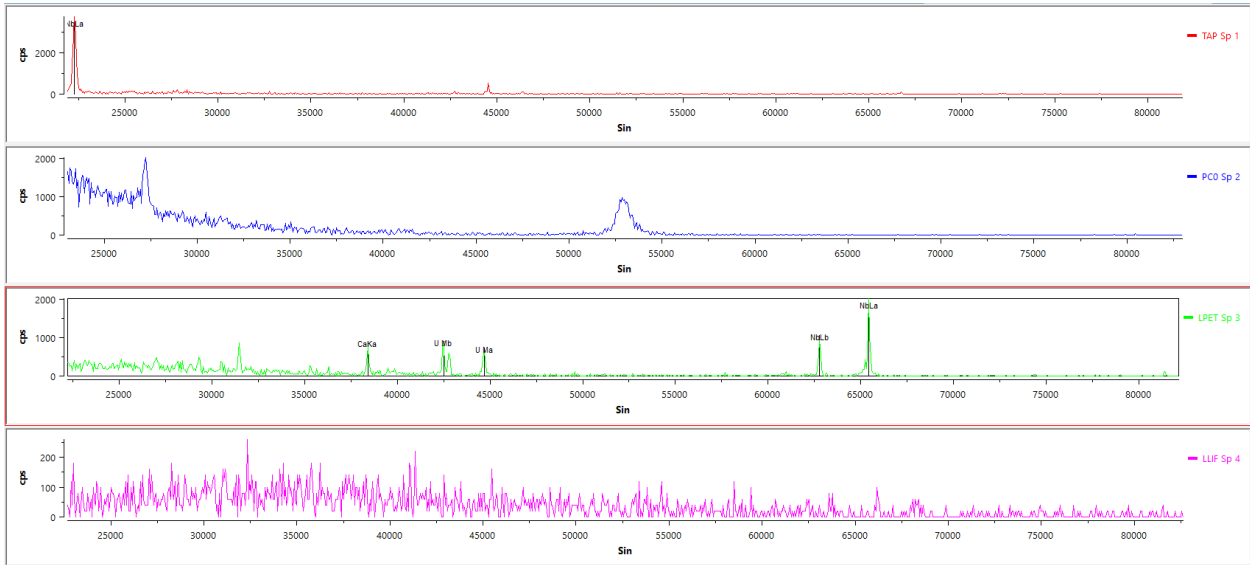
CORN-20-01_6- Manganoedialyte



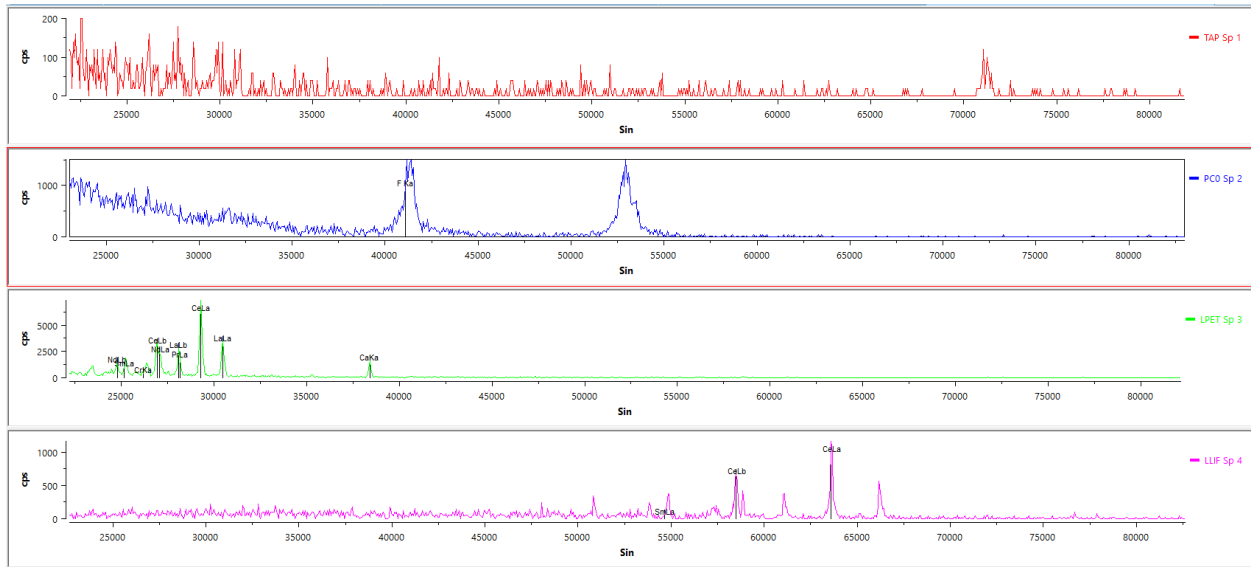
CORN-20-01_7- Manganoedialyte



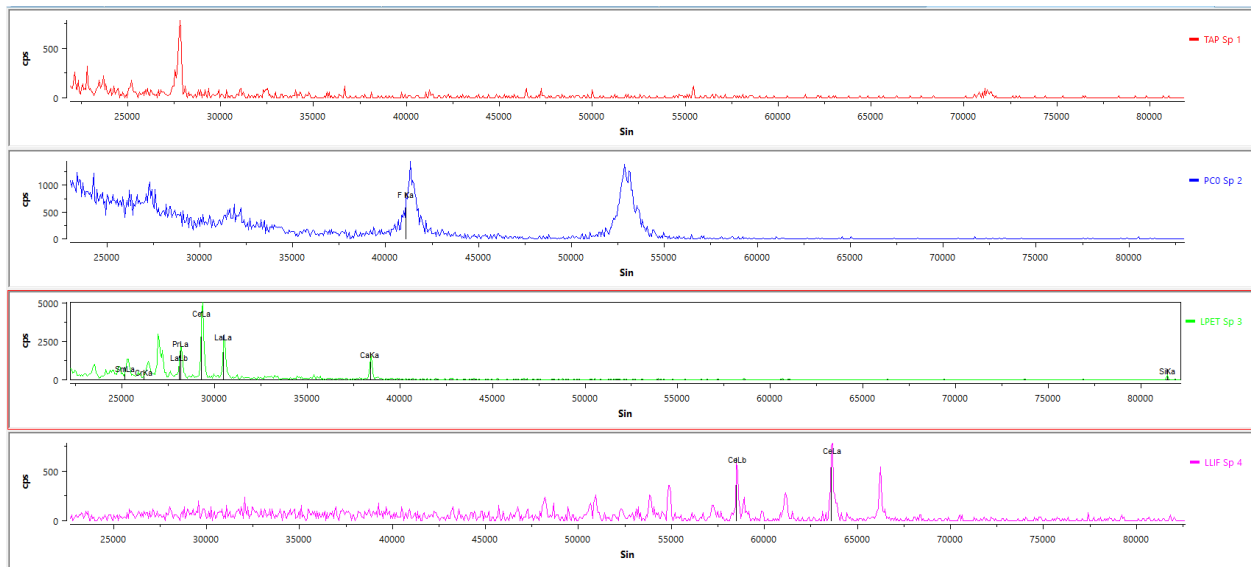
CORN-20-01_10- Monazite



CORN-20-01_14- Oxynatropyrochlore



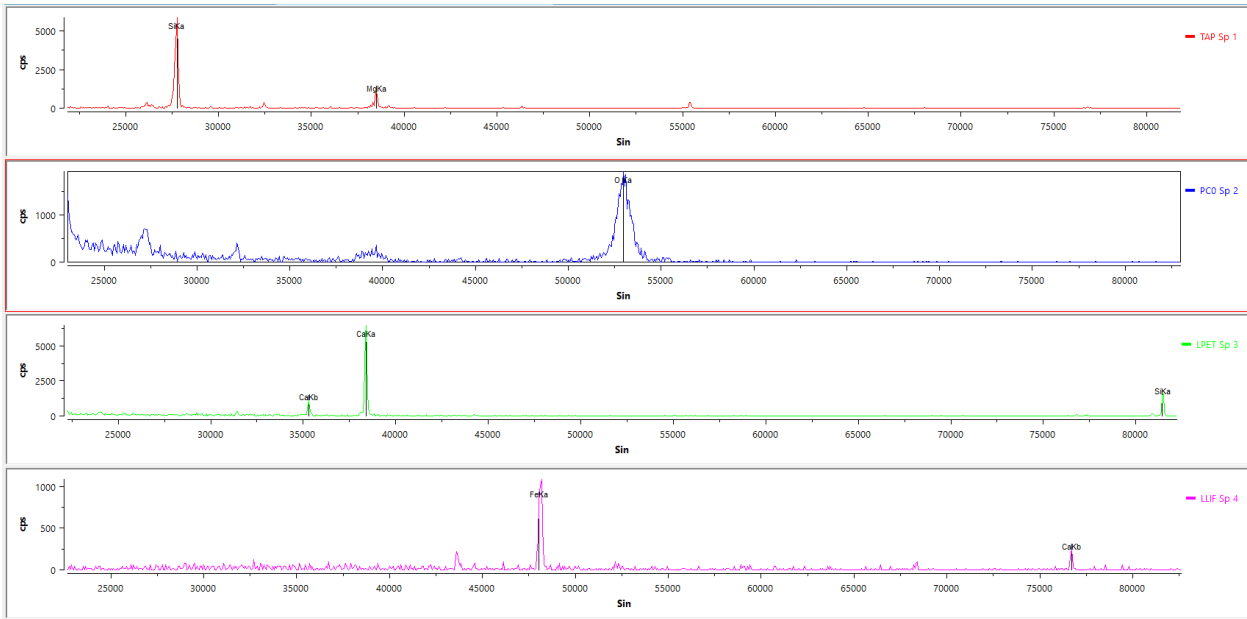
CORN-20-01_15- Bastnäsite



CORN-20-01_21- Bastnäsite

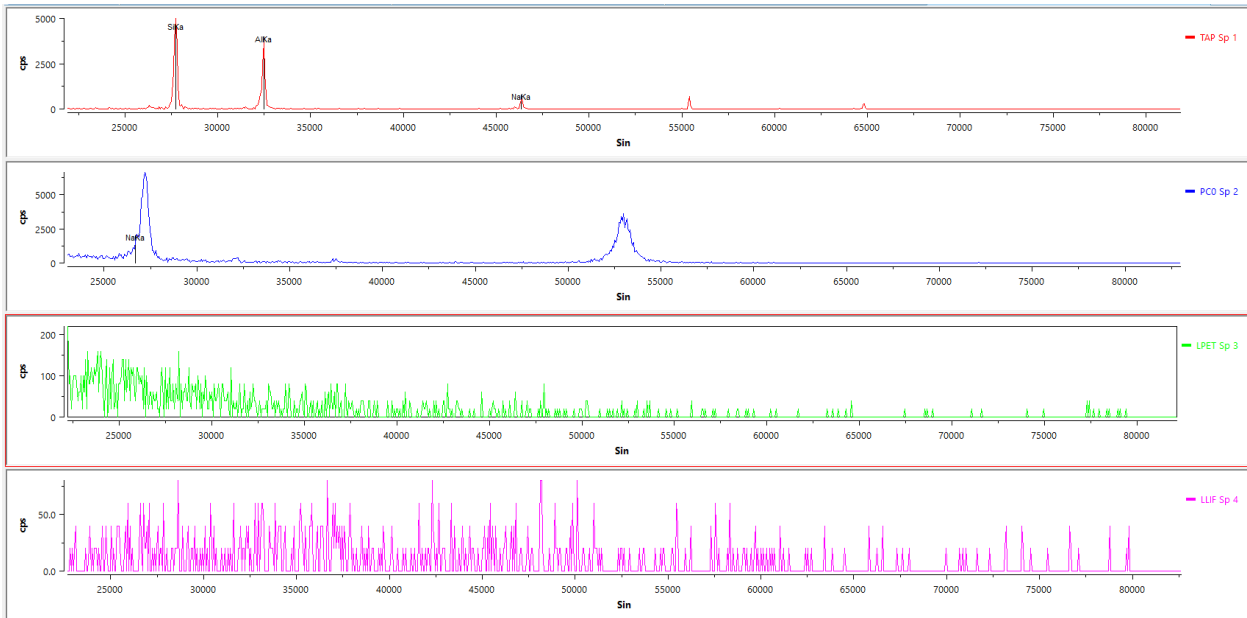
CORN 20-10- South Chess Draw Syenite

Pyroxenes

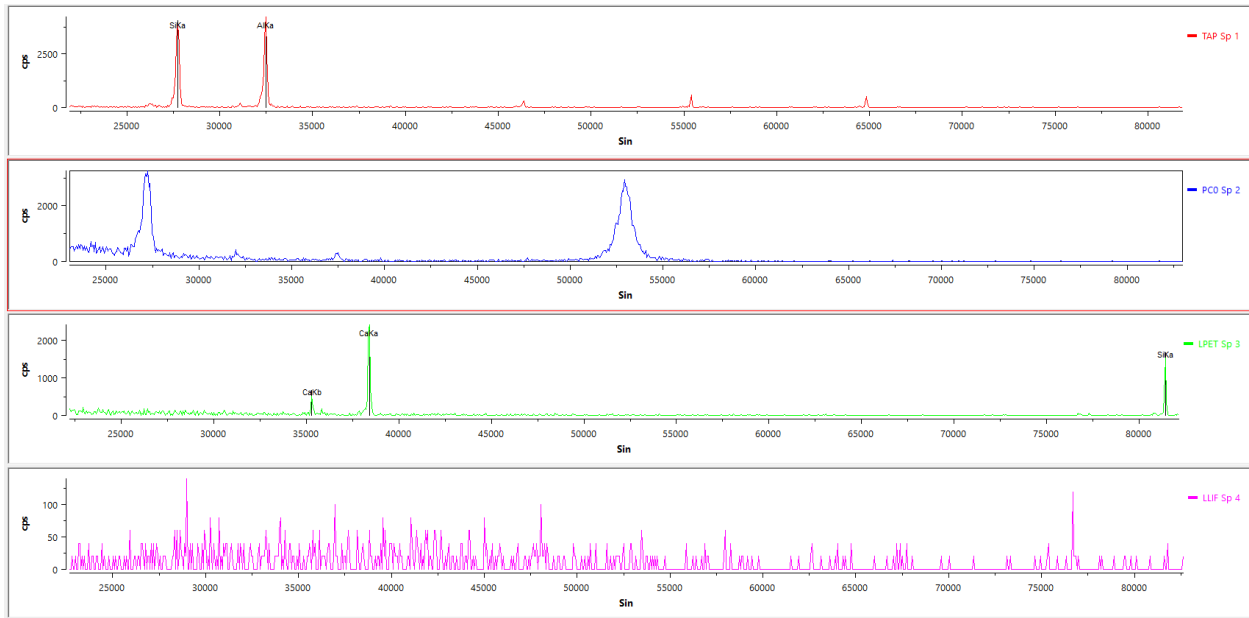


CORN20-10_2- Augite

Feldspars and Feldspathoids

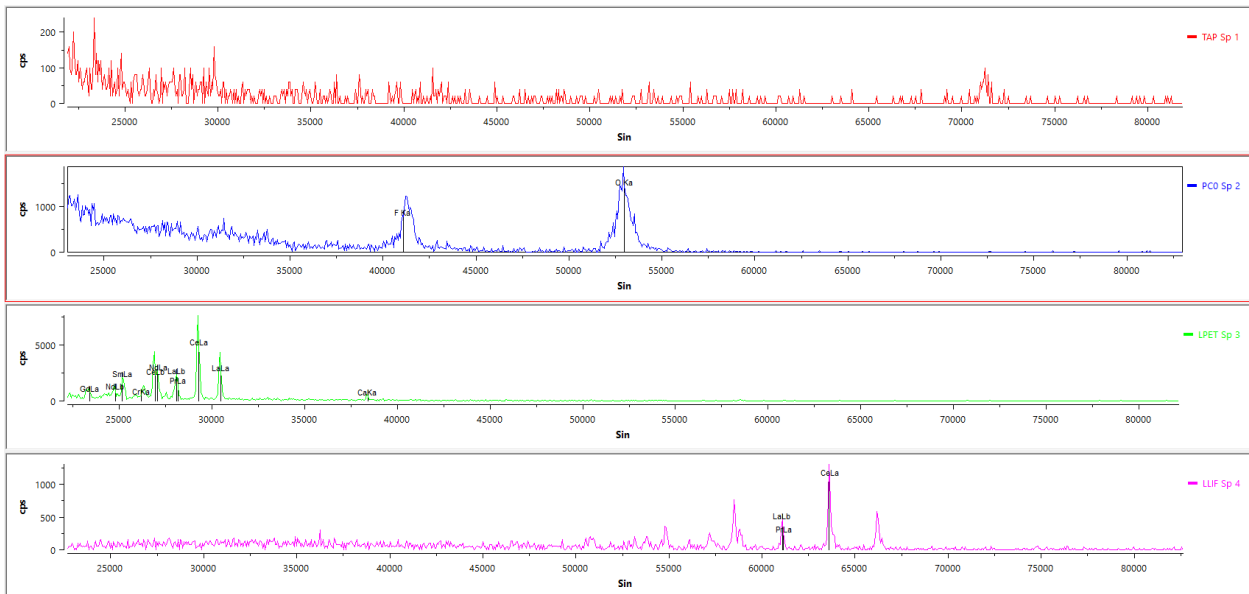


CORN-20-10_18- Analcime

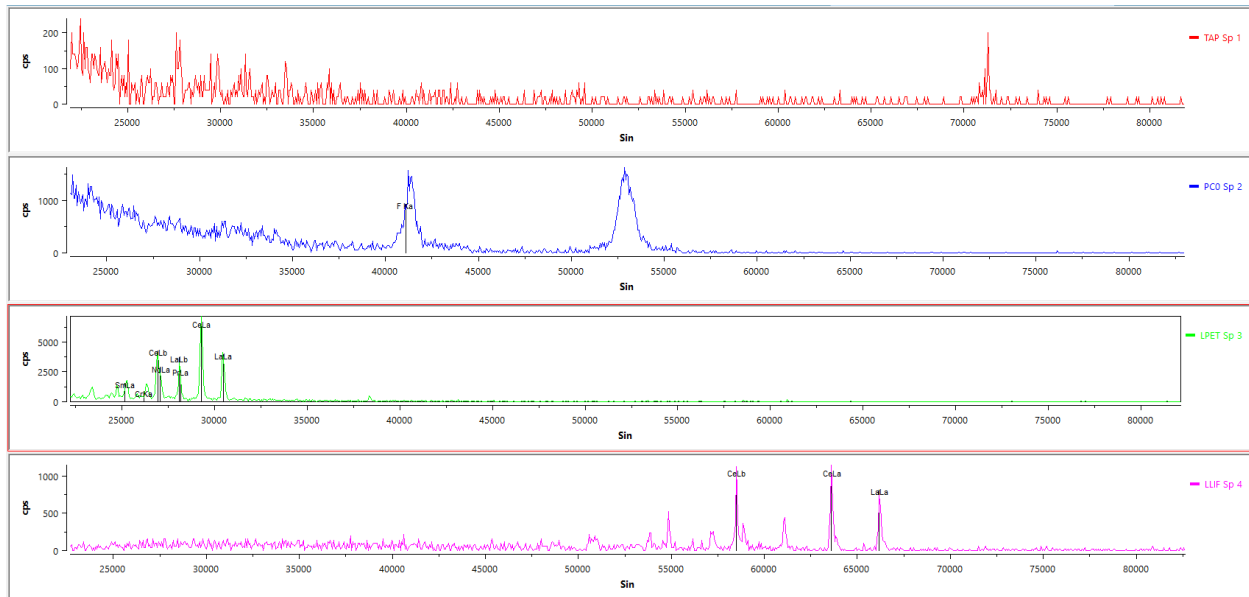


CORN-20-10_19- Plagioclase

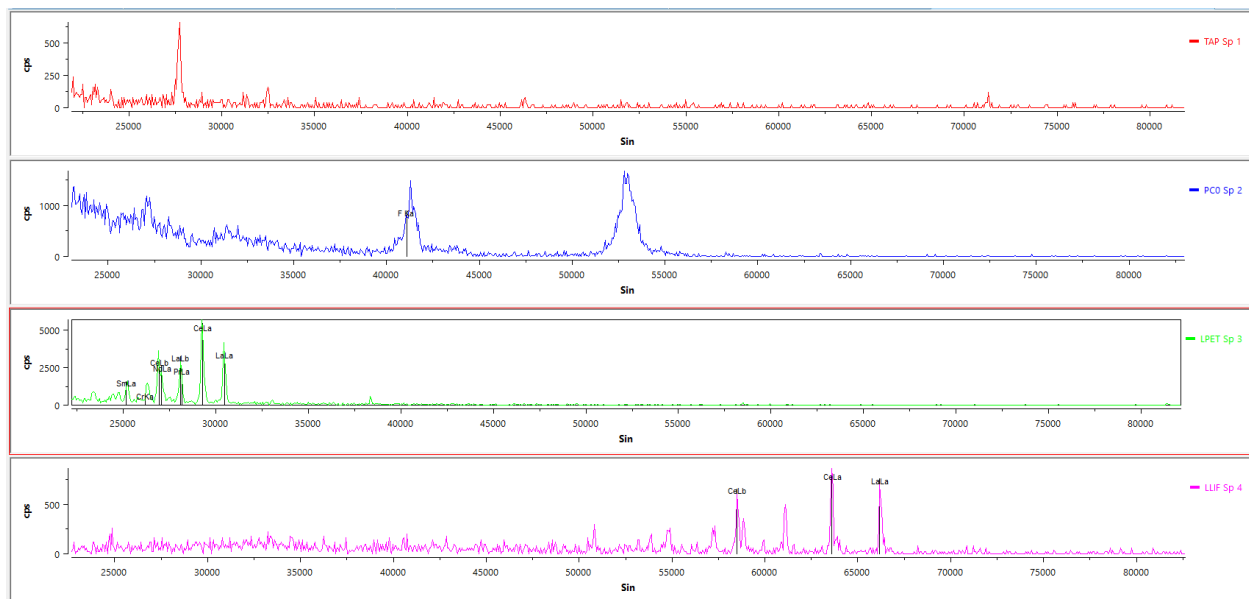
REE, Zr, and Nb Phases



CORN-20-10_13- Bastnäsite

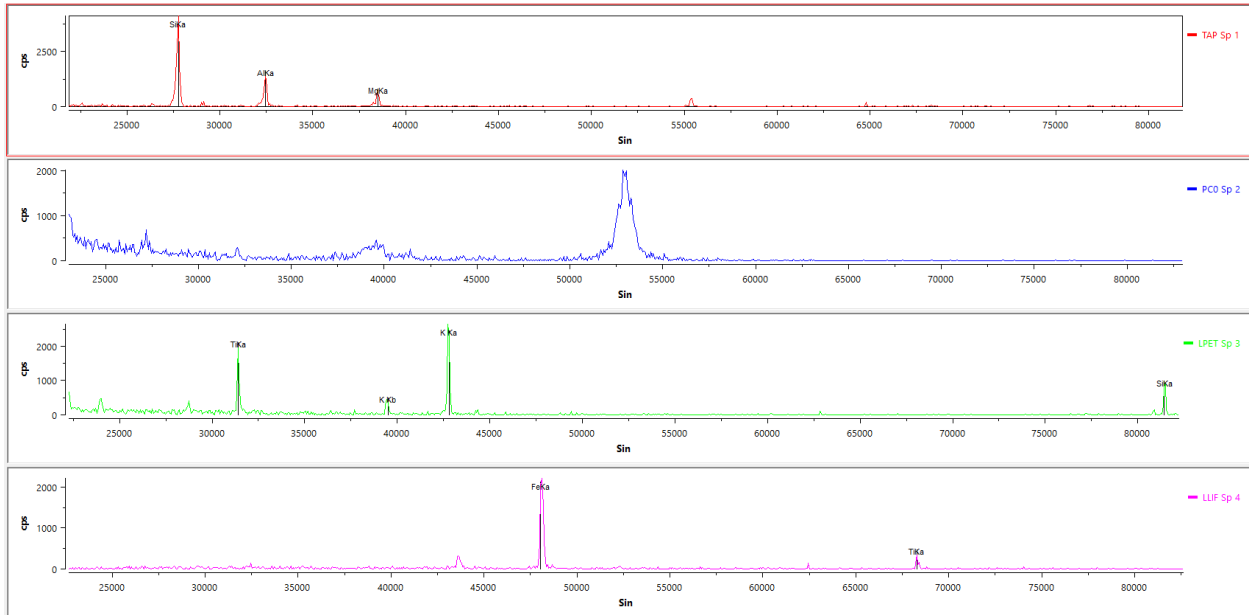


CORN-20-10_14- Bastnäsite



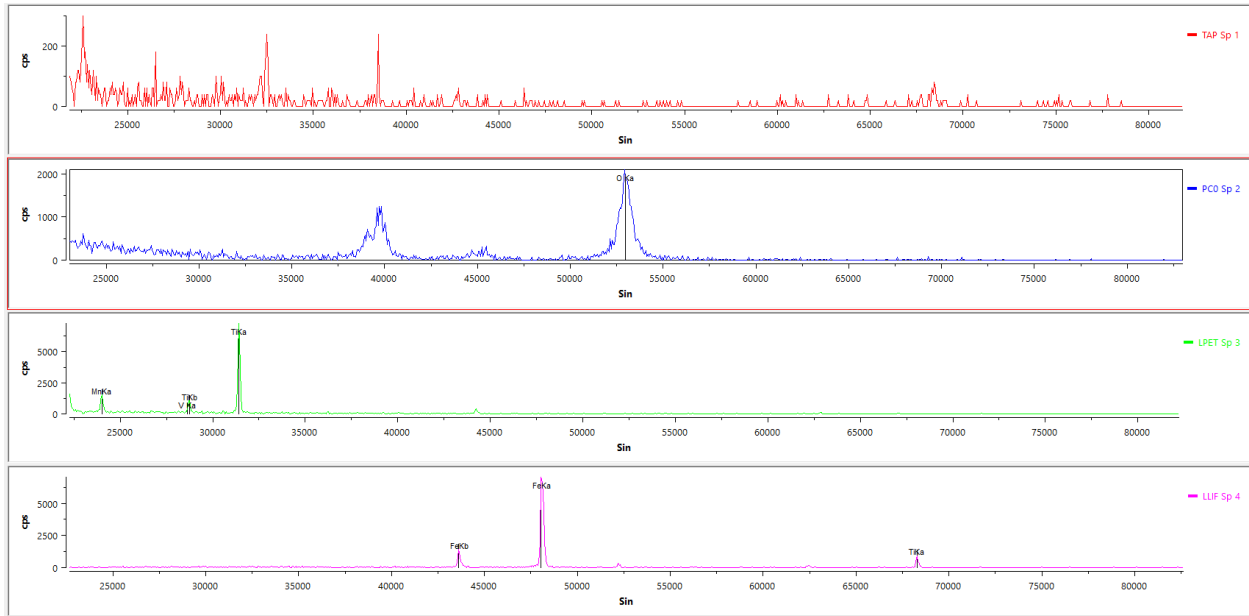
CORN-20-10_15- Bastnäsite

Other Silicates

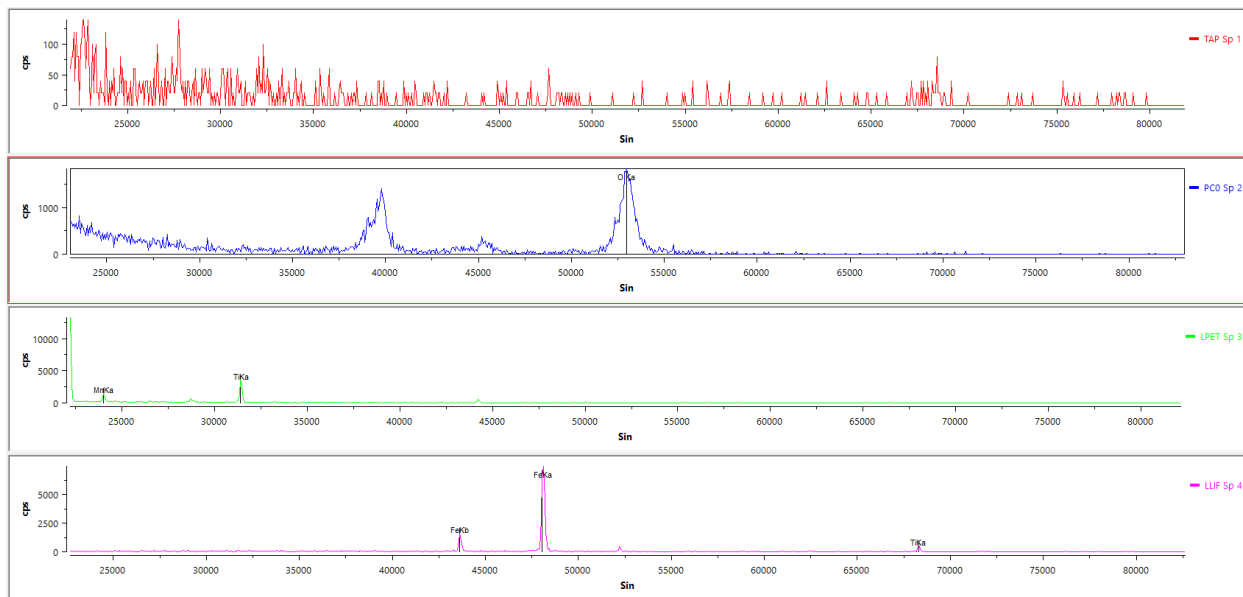


CORN20-10_3- Biotite

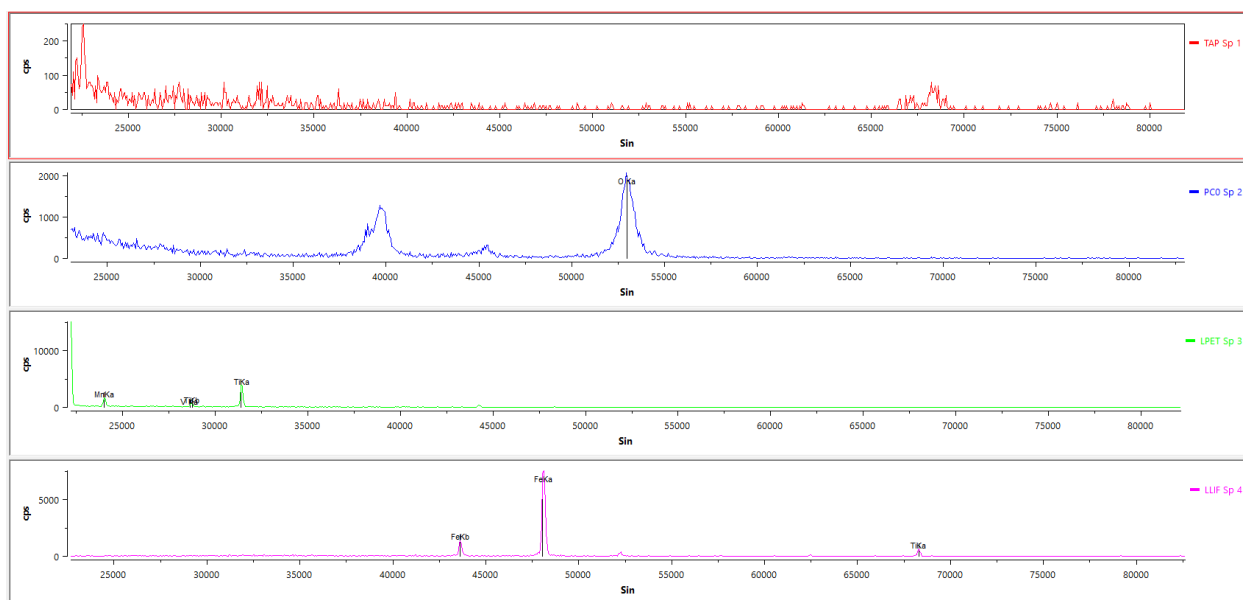
Oxides



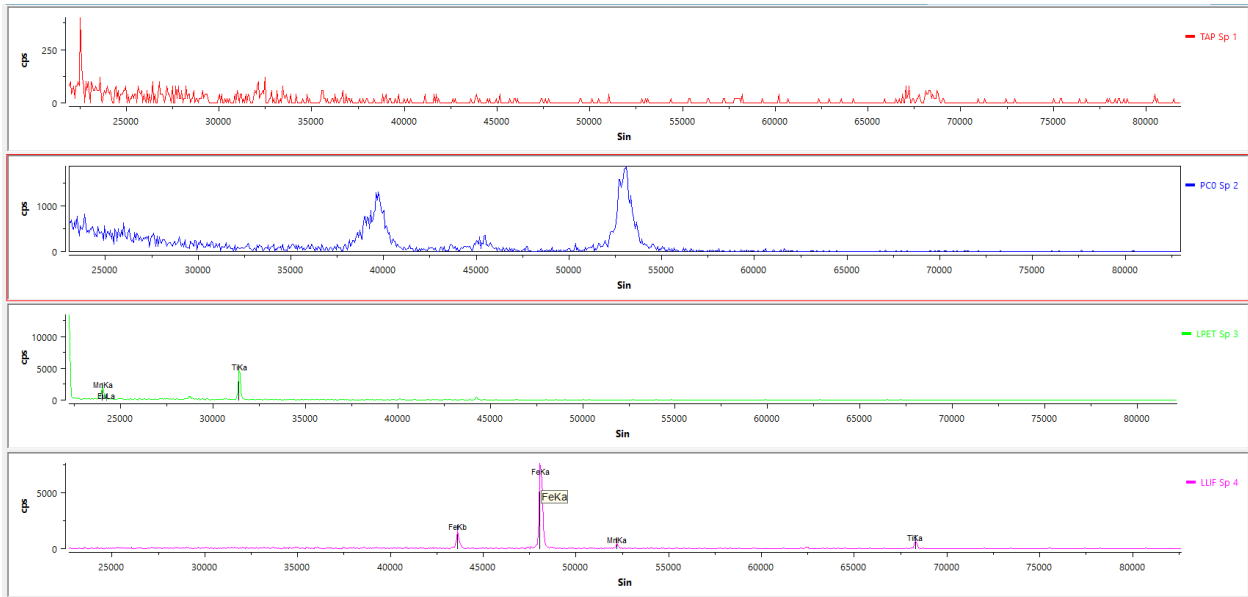
CORN20-10_1- Titanomagnetite



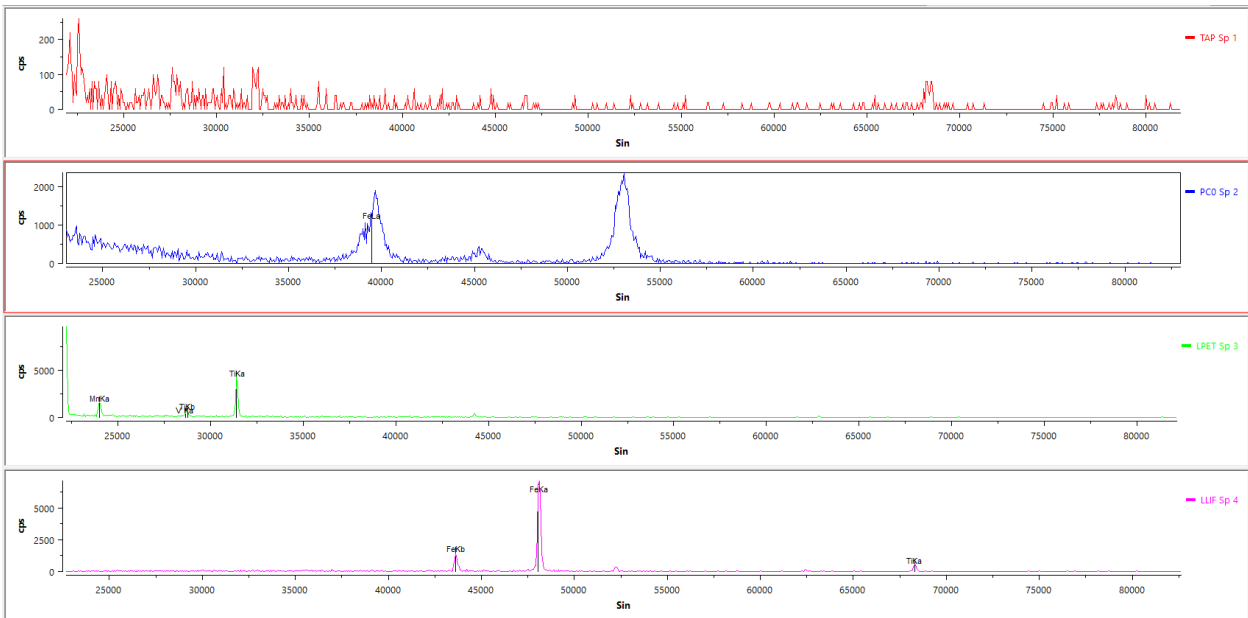
CORN-20-10_11- Titanomagnetite



CORN-20-10_12- Titanomagnetite



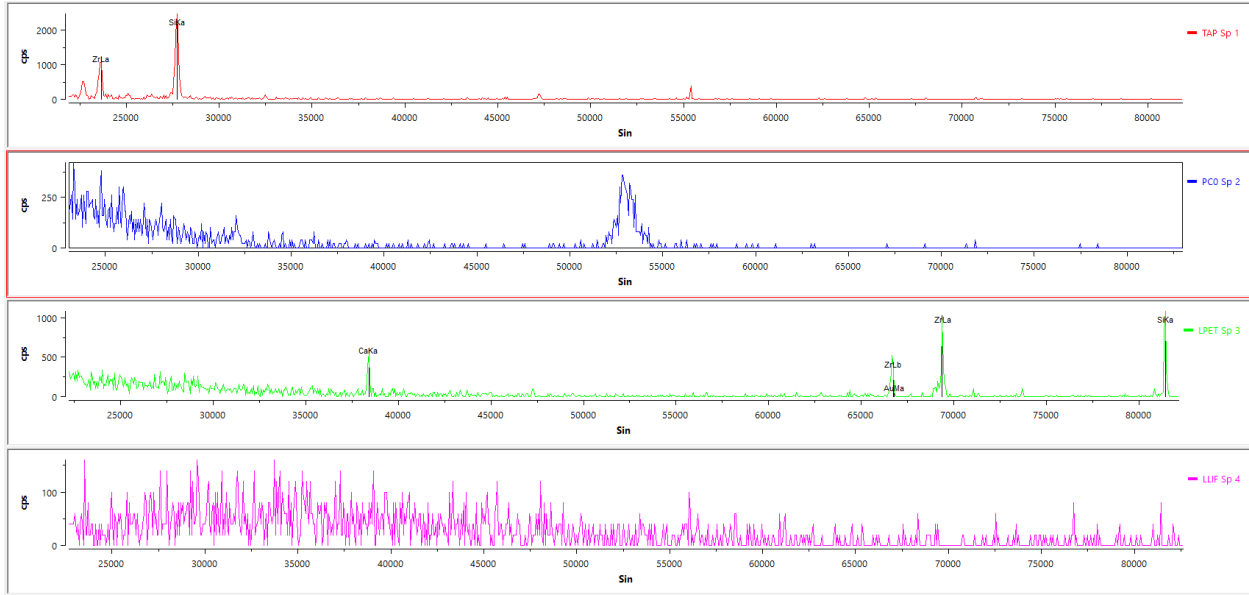
CORN-20-10_16- Titanomagnetite



CORN-20-10_17- Titanomagnetite

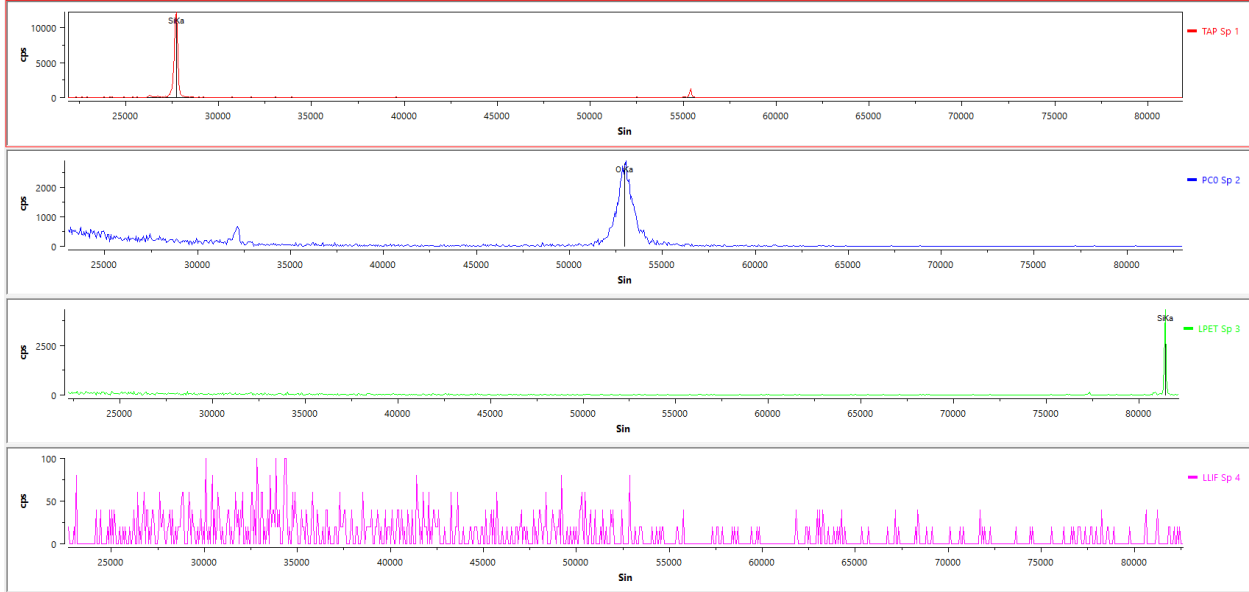
CORN 20-12- Chess Draw Breccia

REE, Zr, and Nb Phases



CORN20-12_02- Calciocatapleiiite

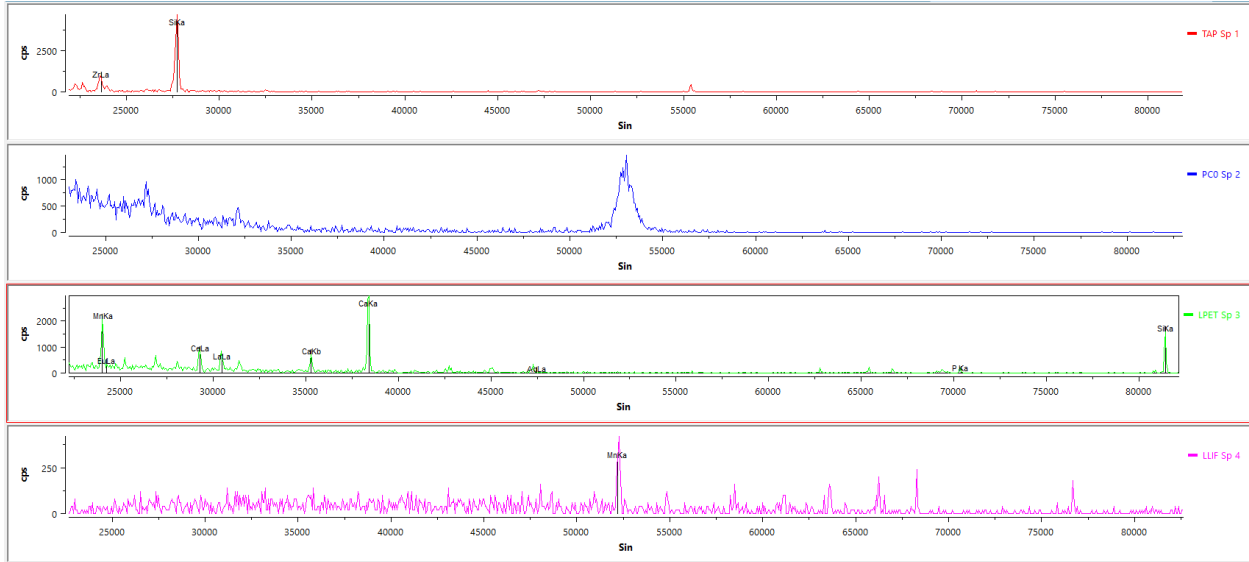
Other Silicates



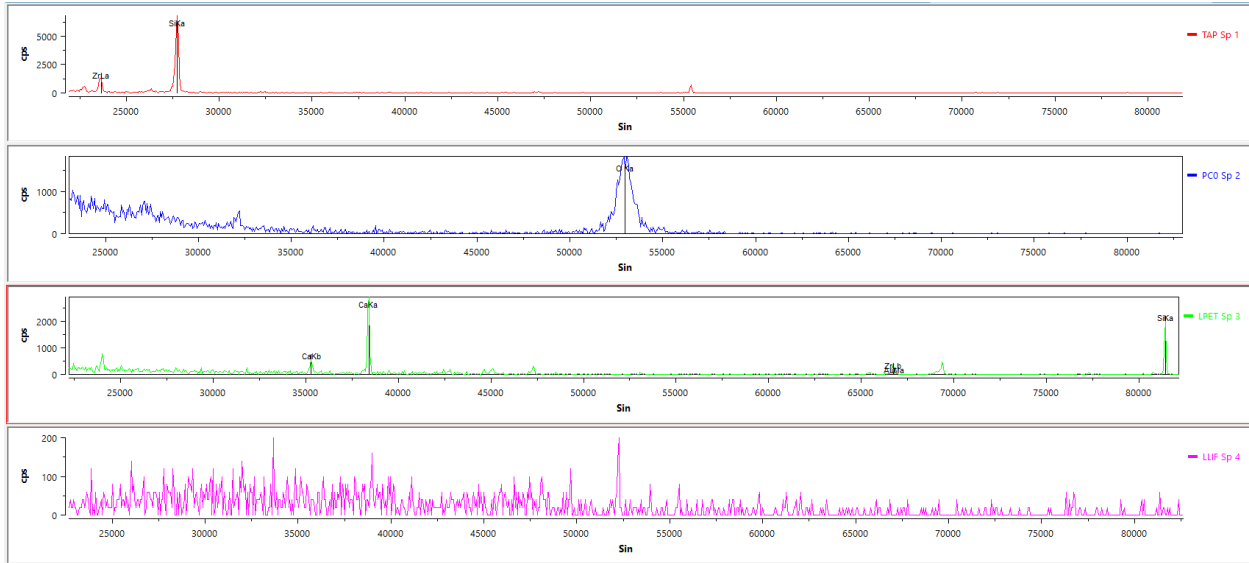
CORN20-12_01- Quartz

CORN-20-34- Dike on Wind Mountain

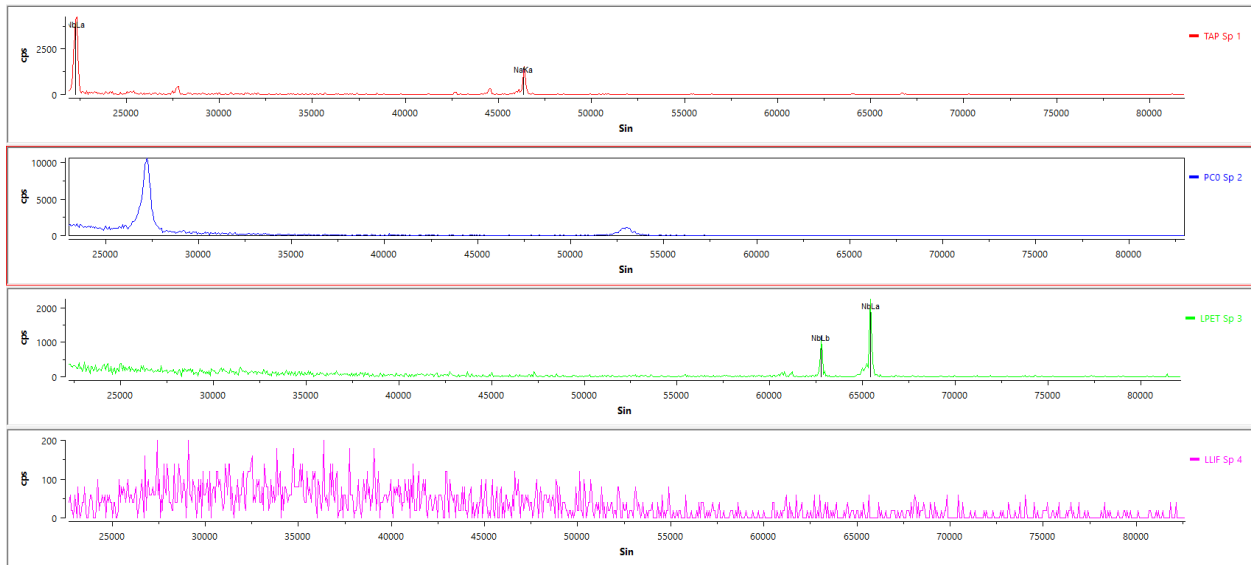
REE, Zr, and Nb Phases



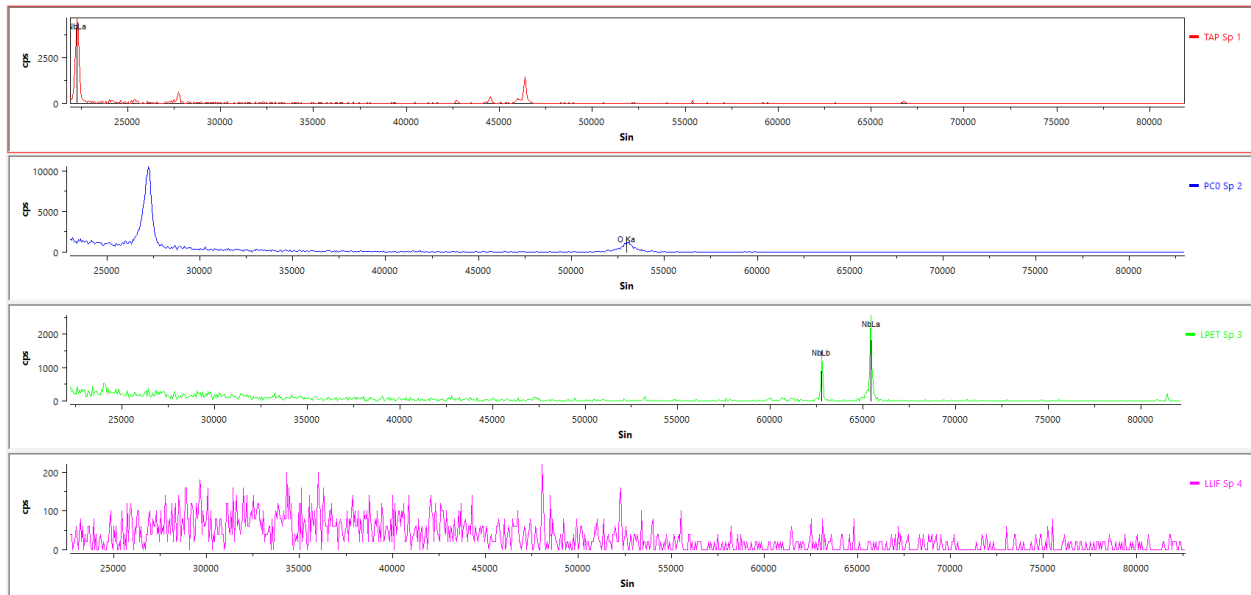
CORN-20-34_5- Calciocatapleite + Monazite



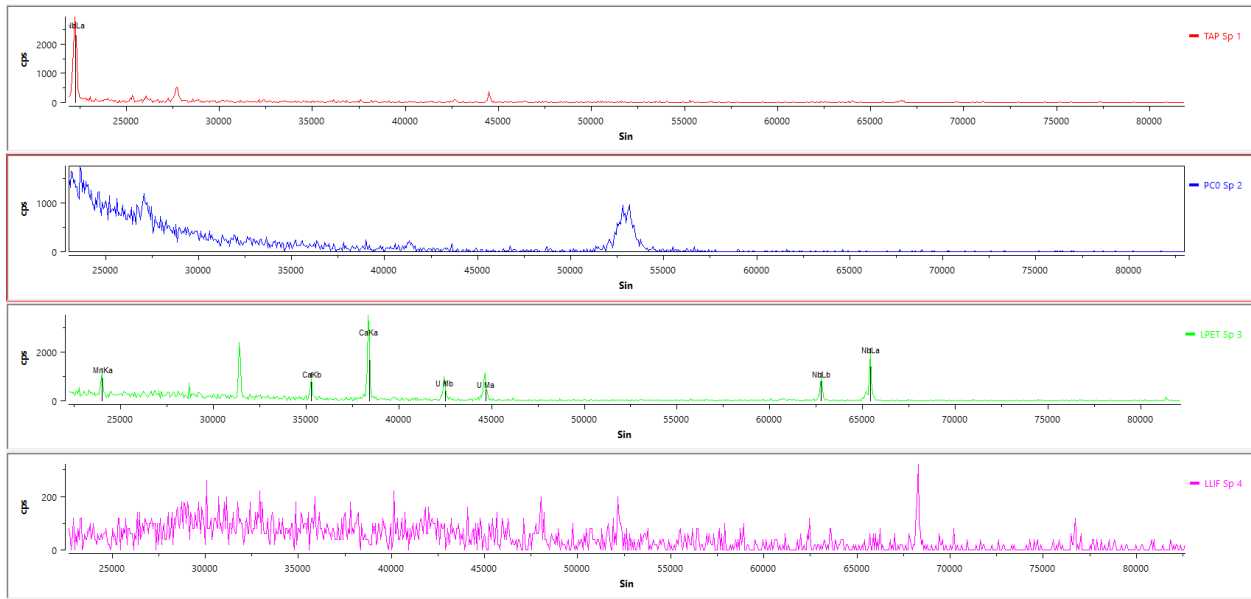
CORN-20-34_7- Calciocatapleite



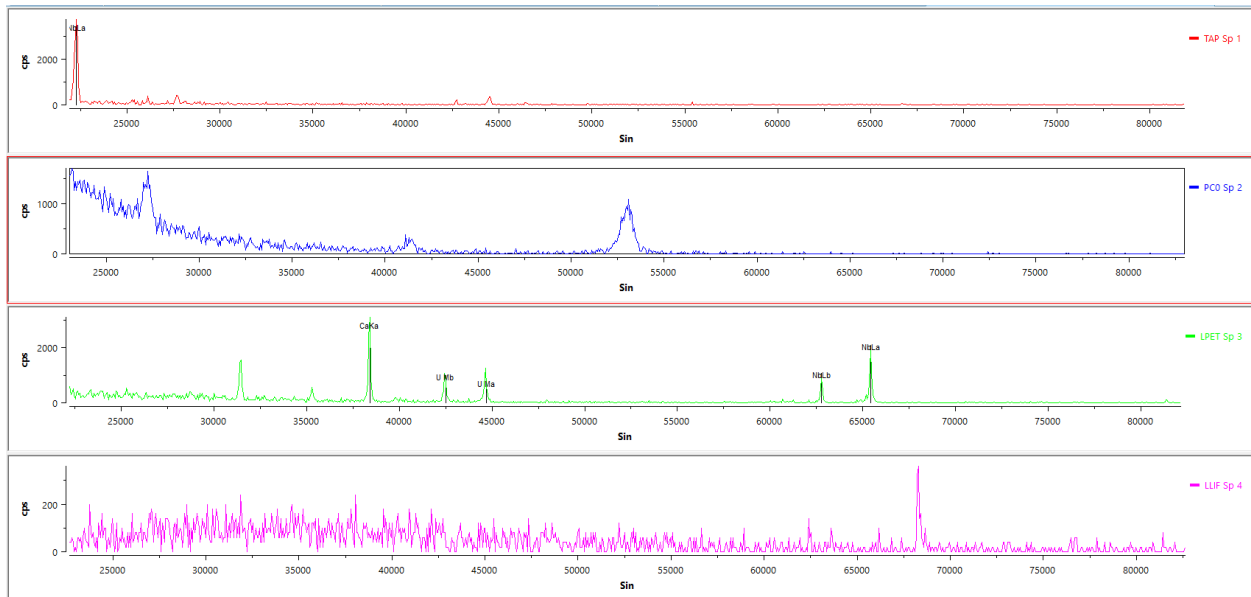
CORN-20-34_8- Lueshite



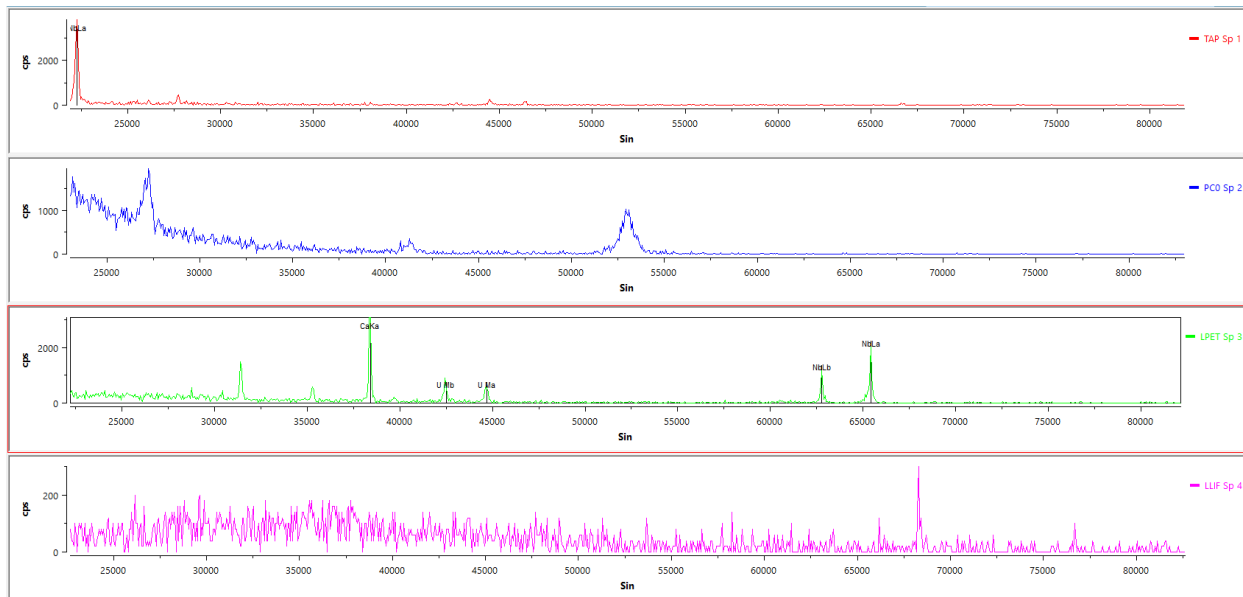
CORN-20-34_9- Lueshite



CORN-20-34_11- Hydroxymanganopyrochlore

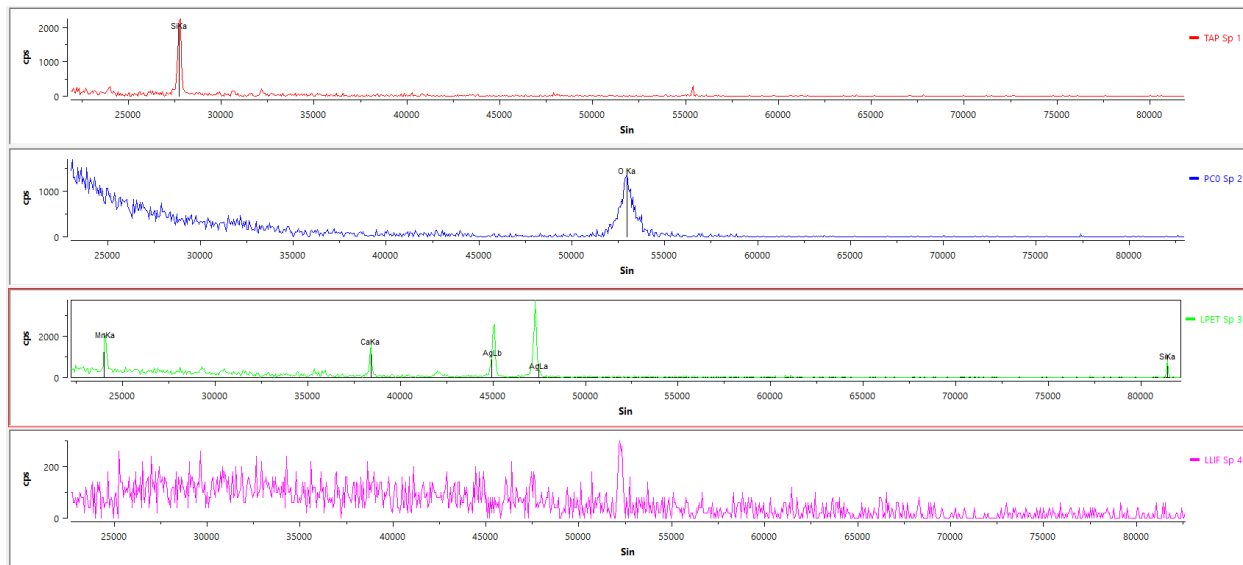


CORN-20-34_13- Oxynatropyrochlore

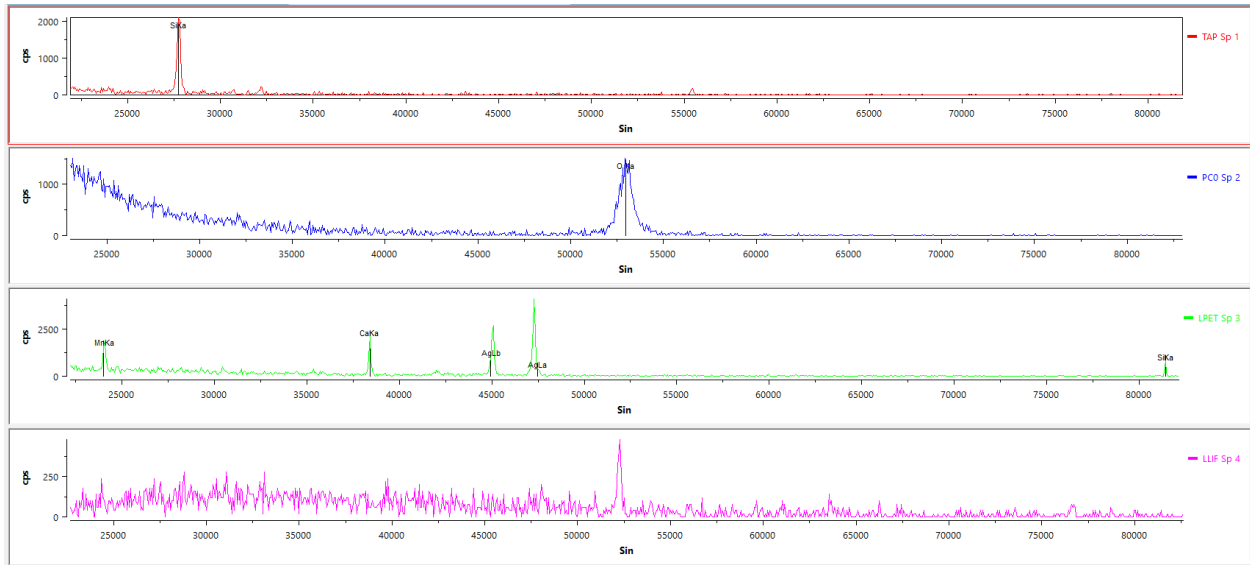


CORN-20-34_14- Oxynatropyrochlore

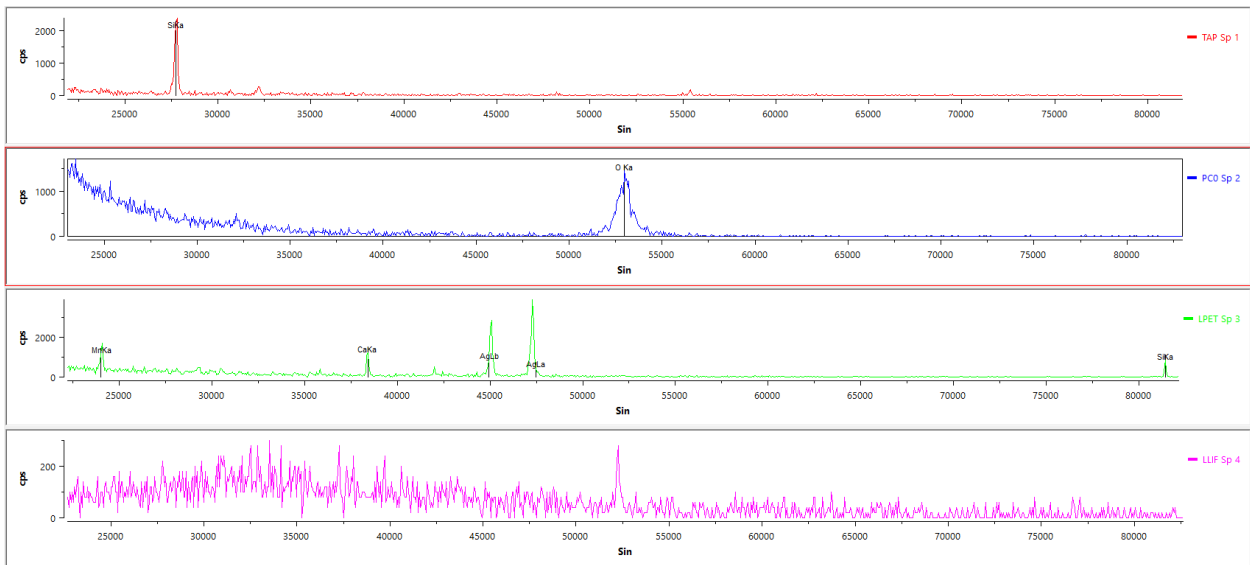
Other Silicates



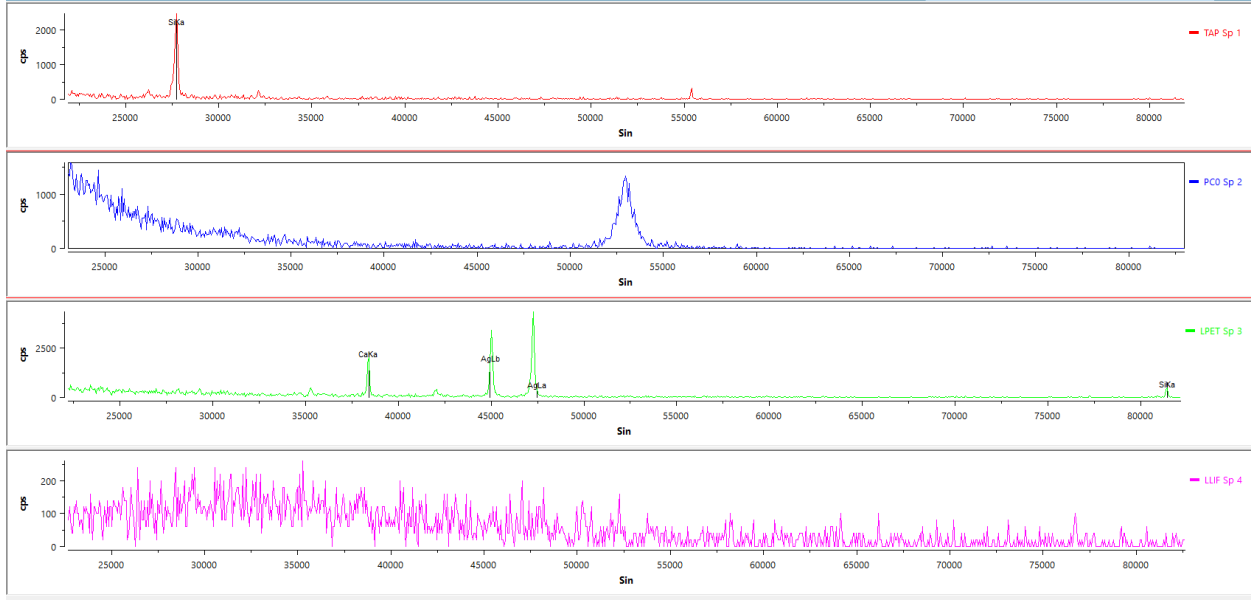
CORN-20-34_01- Undefined Mixed Phase



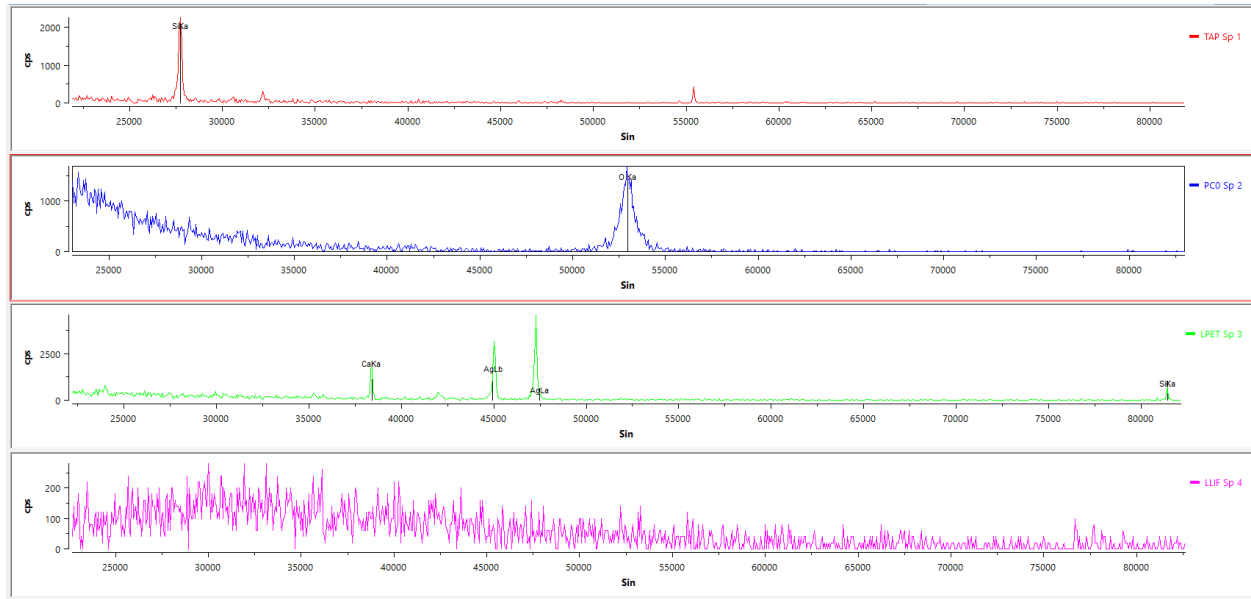
CORN-20-34_2- Undefined Mixed Phase



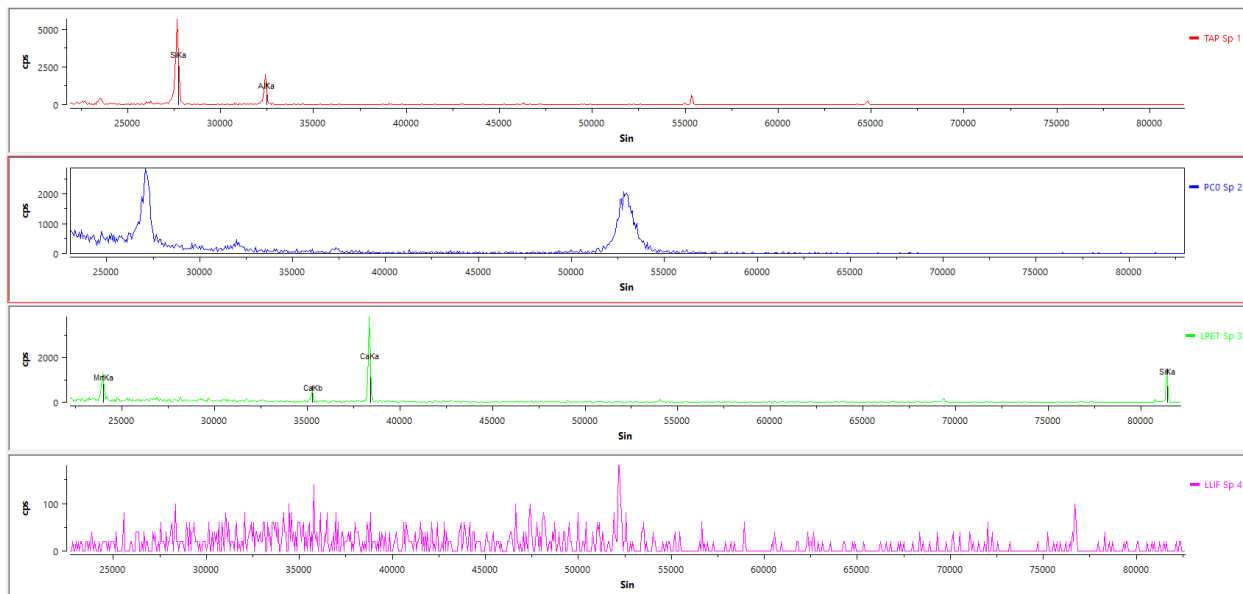
CORN-20-34_3- Undefined Mixed Phase



CORN-20-34_15- Undefined Mixed Phase

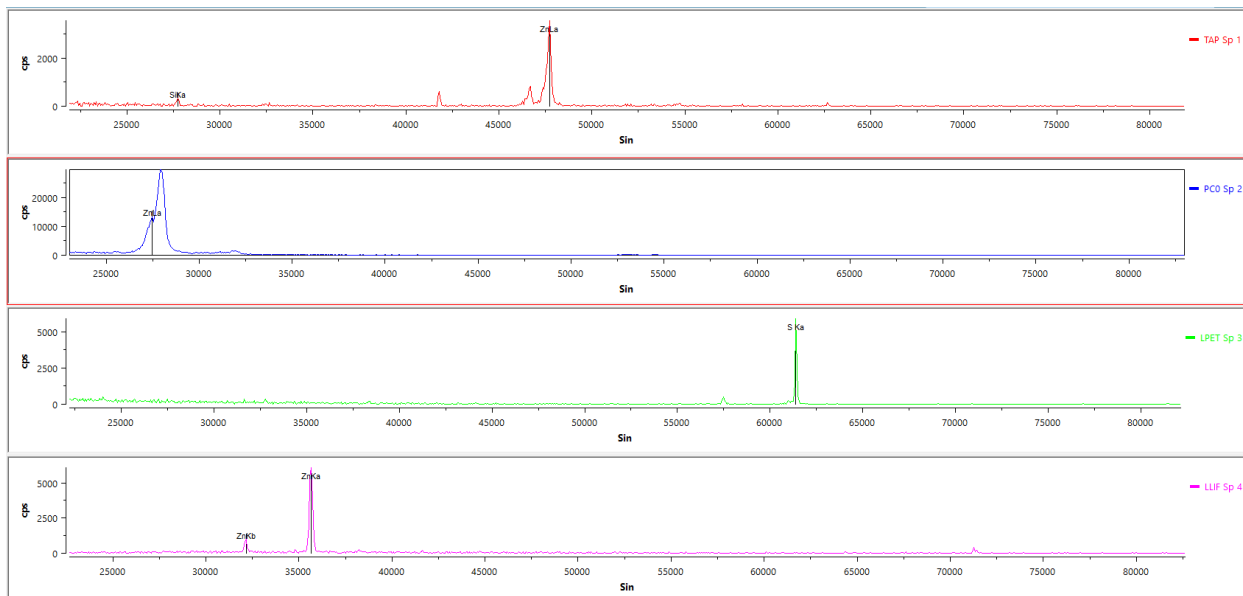


CORN-20-34_16- Undefined Mixed Phase

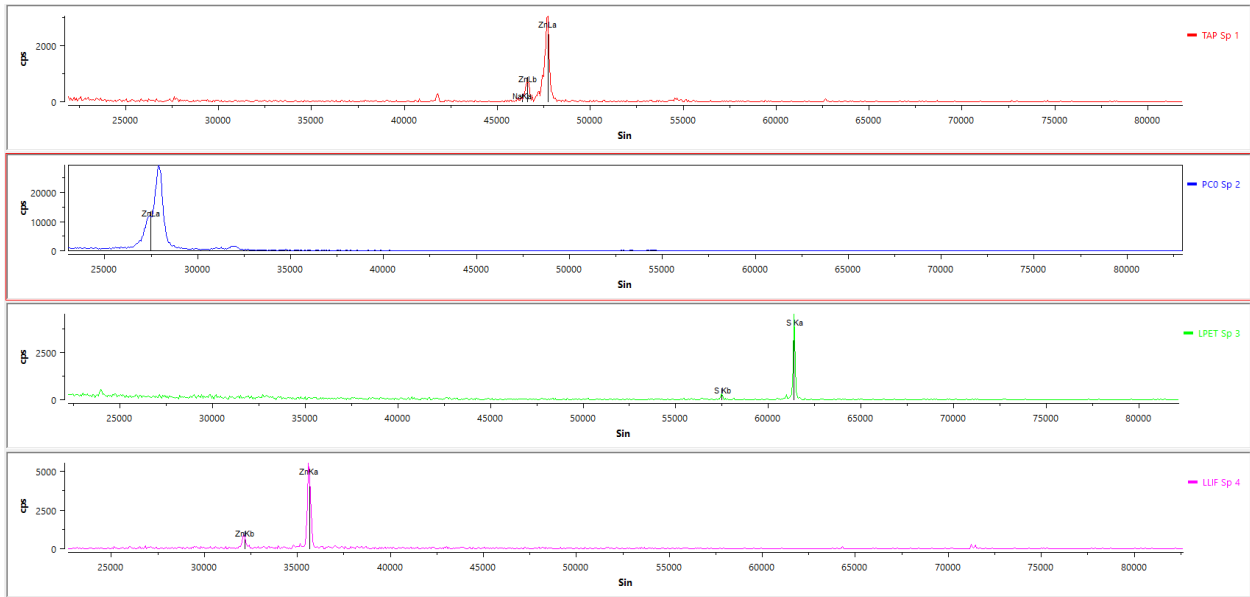


CORN-20-34_23- Silicate Mixed Phase

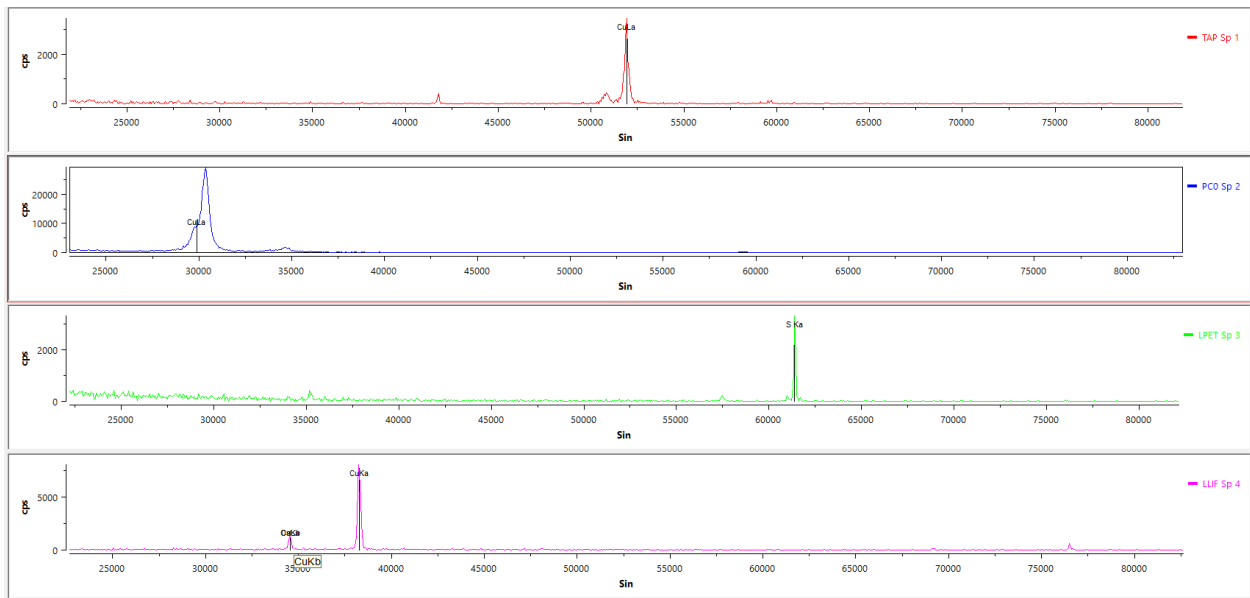
Sulfides



CORN-20-34_10- Sphalerite



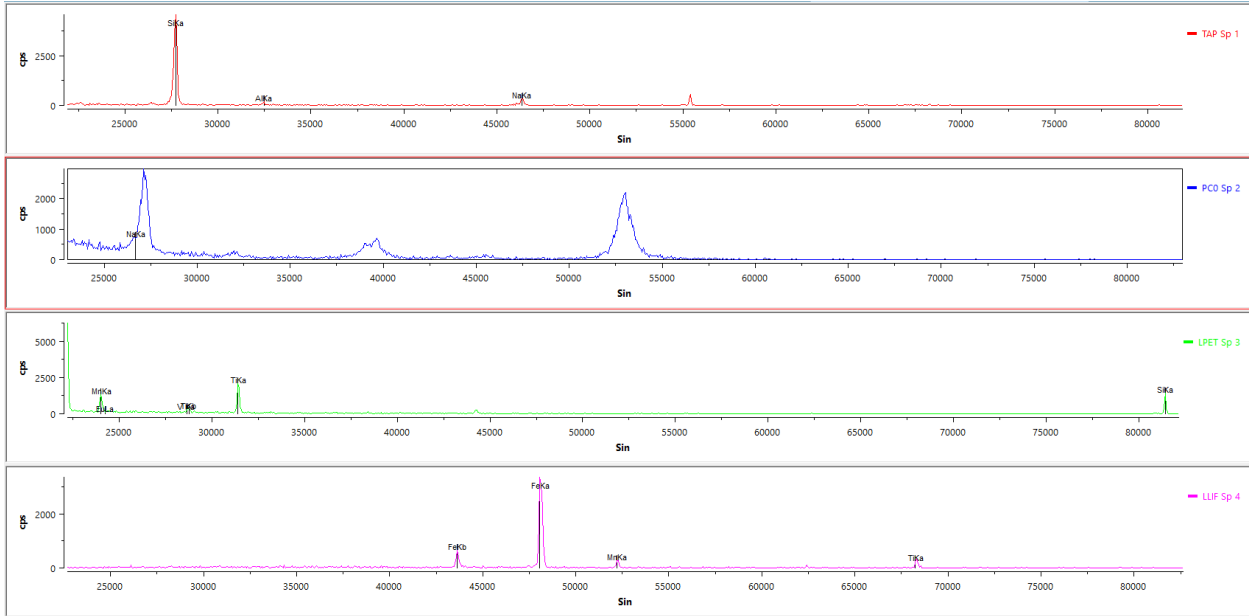
CORN-20-34_21- Sphalerite



CORN-20-34_22- Copper Sulfide

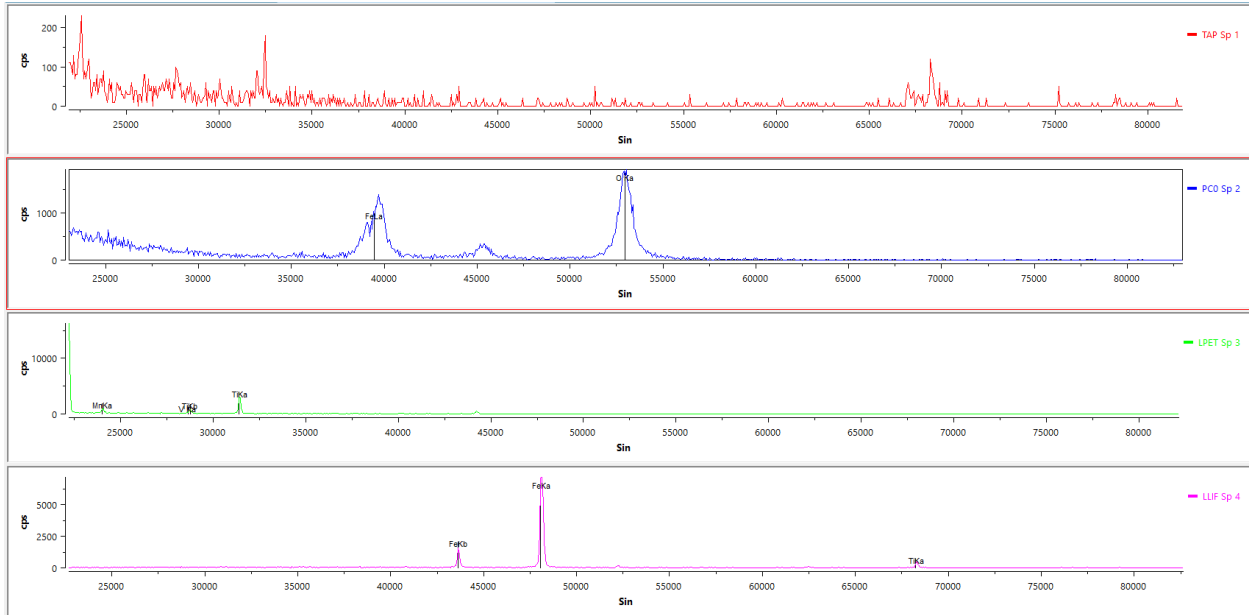
CORN 4001- Alamo Mountain

Amphiboles

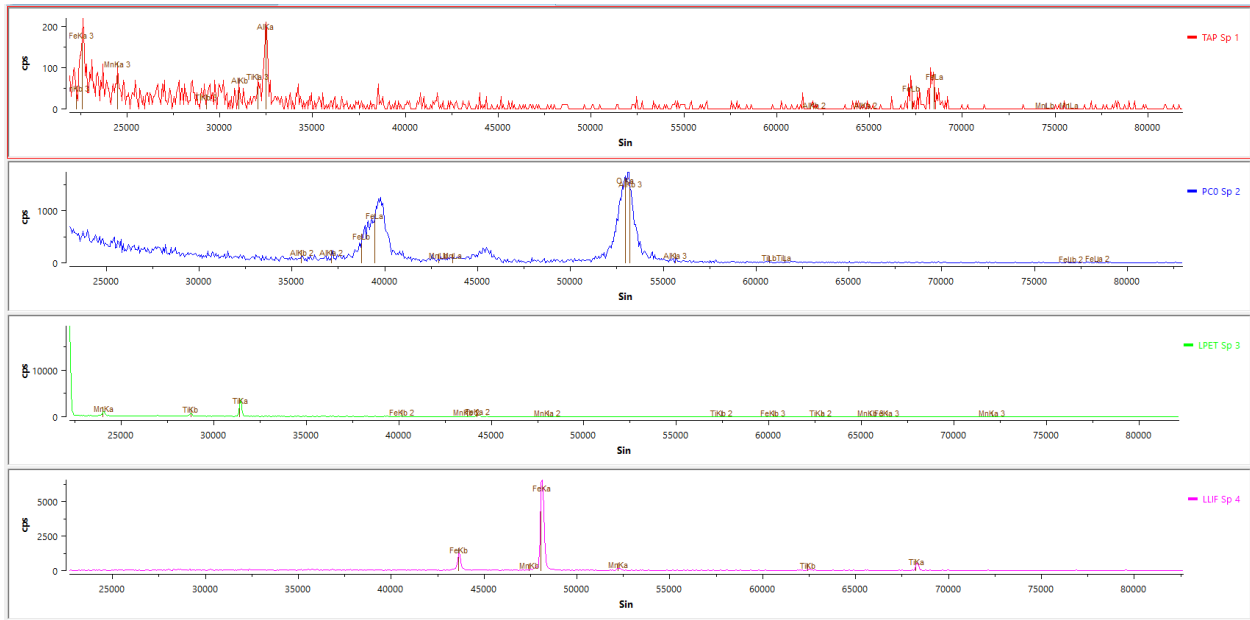


CORN-4001_4- Aenigmatite

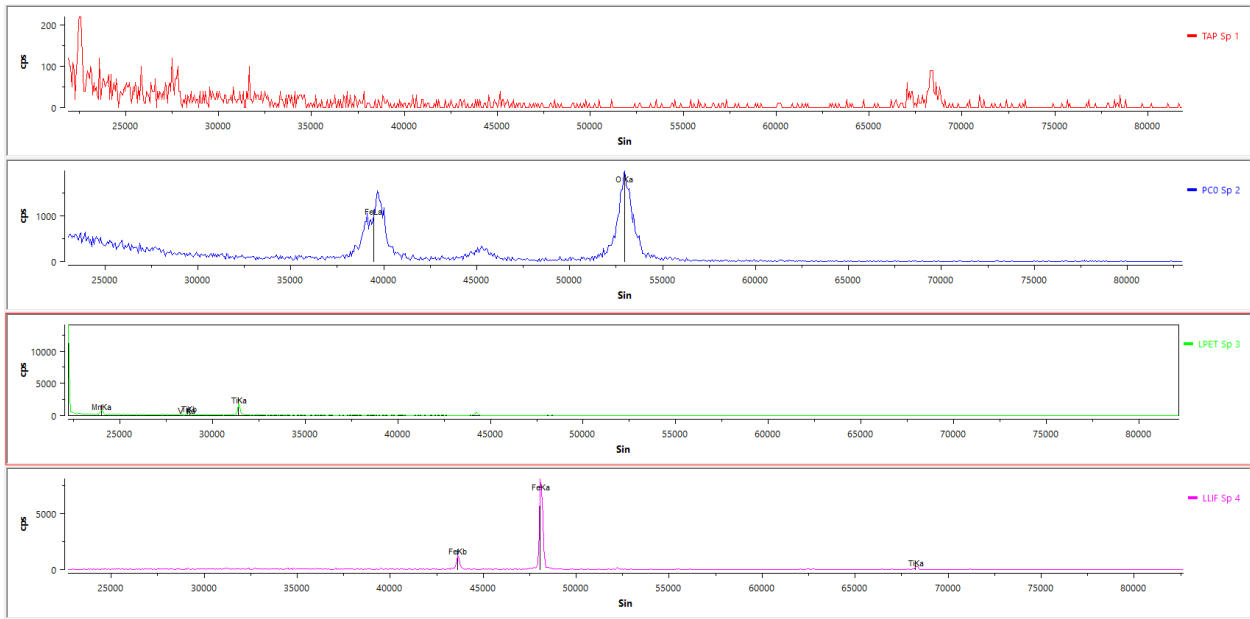
Oxides



CORN-4001_1- Titanomagnetite



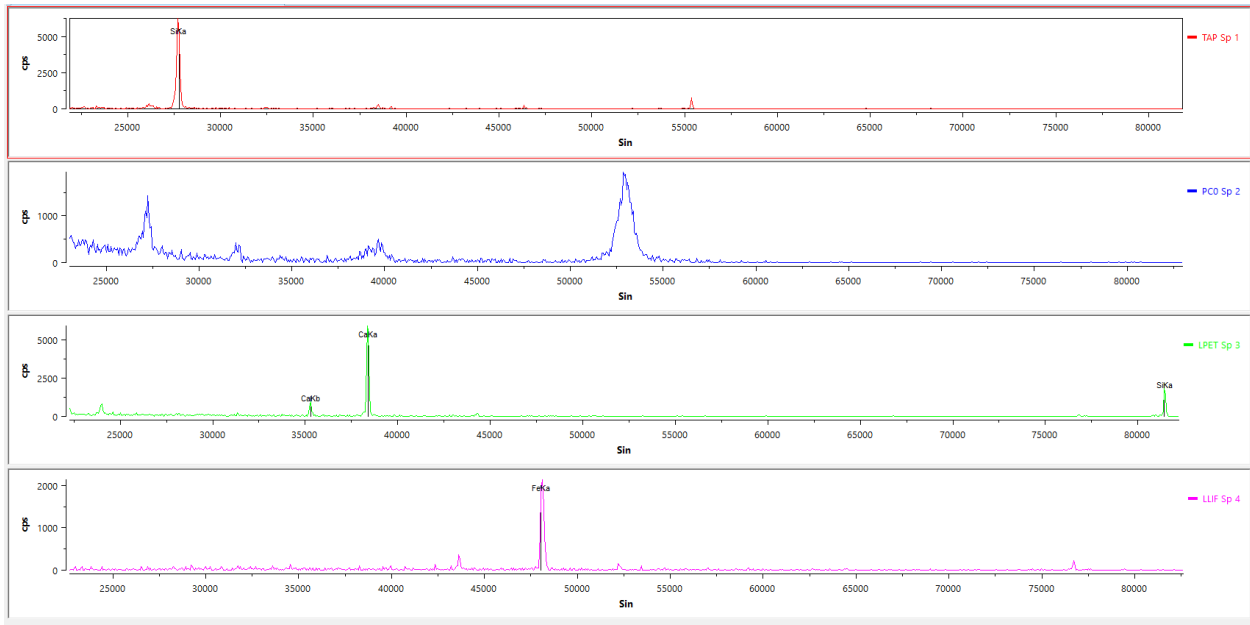
CORN-4001_2- Titanomagnetite



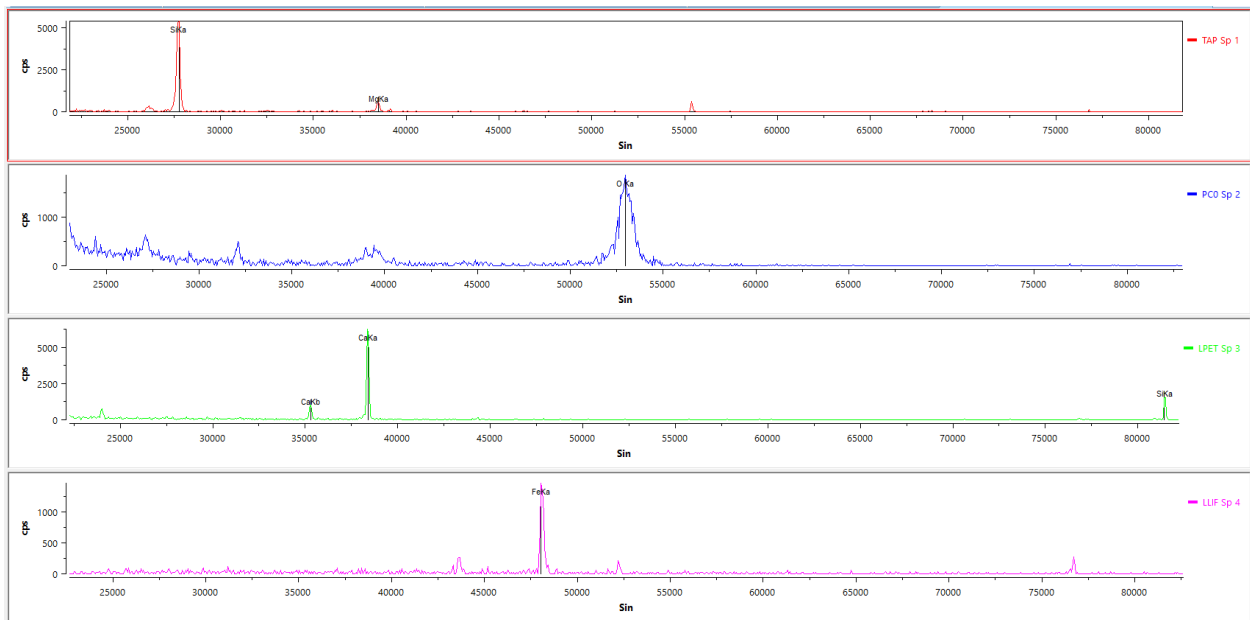
CORN-4001_3- Titanomagnetite

CORN 4005- Lil' Windy

Pyroxenes

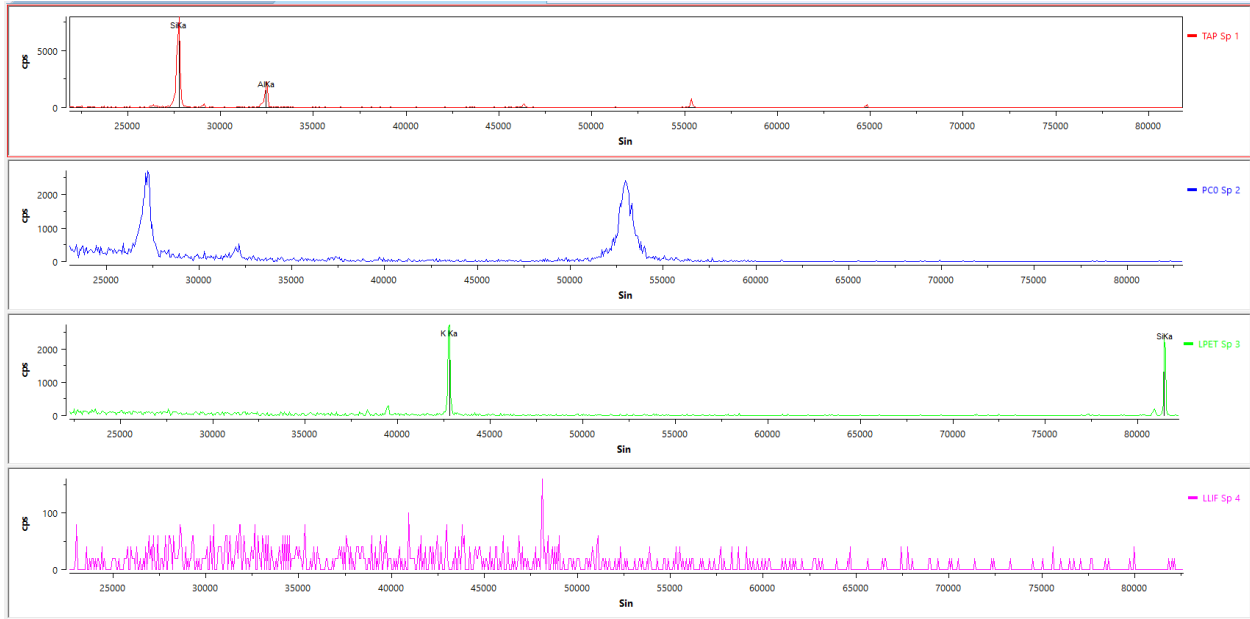


CORN4005_2- Aegirine-augite



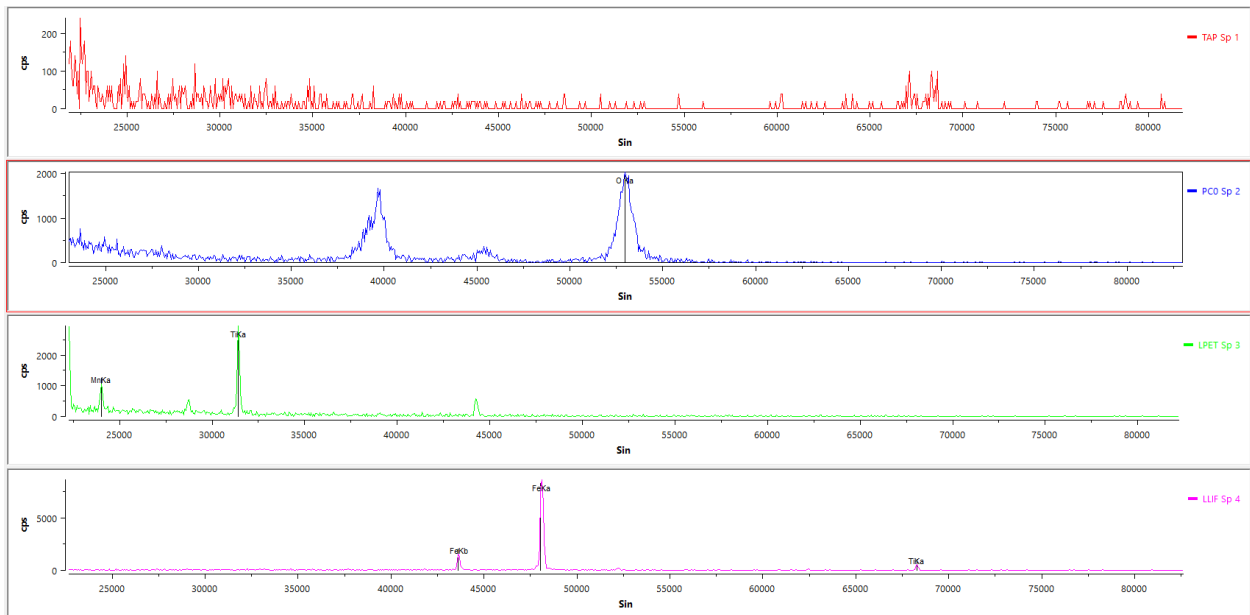
CORN4005_6- Augite

Feldspars and Feldspathoids

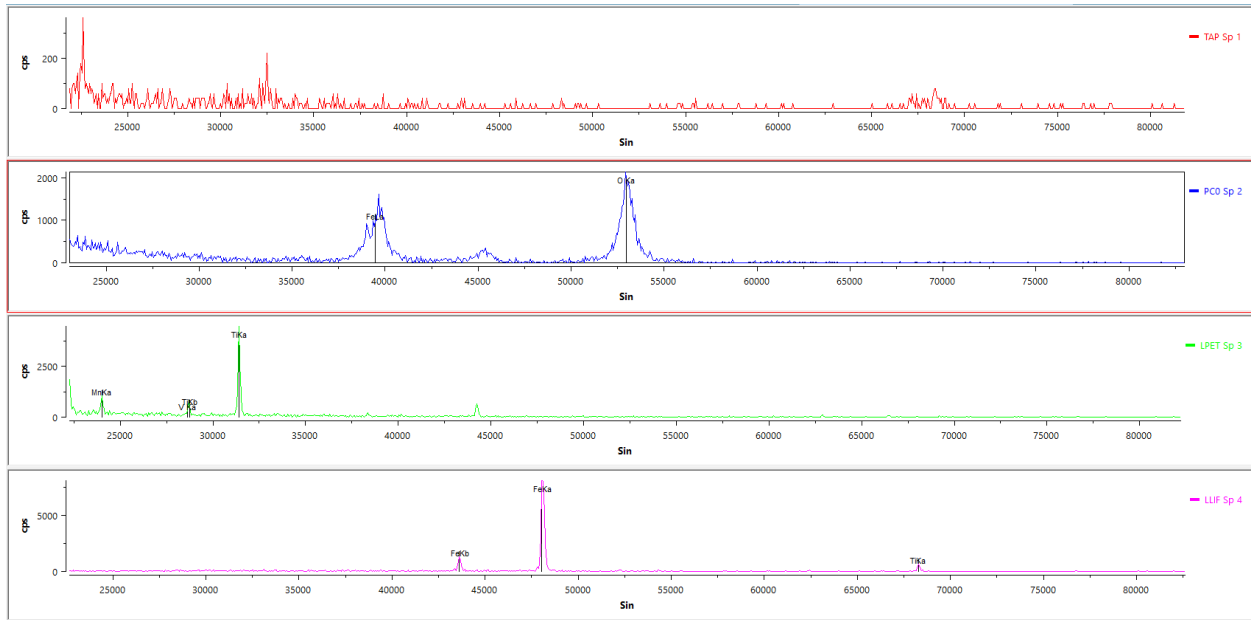


CORN4005_3- Anorthoclase

Oxides



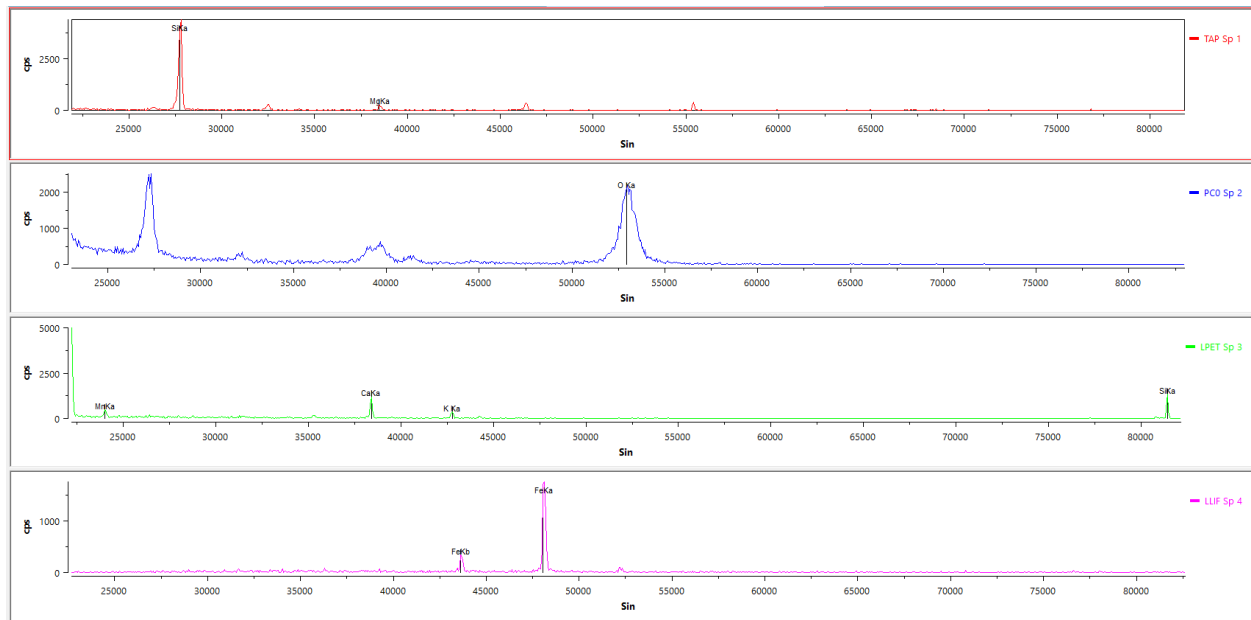
CORN4005_4- Titanomagnetite



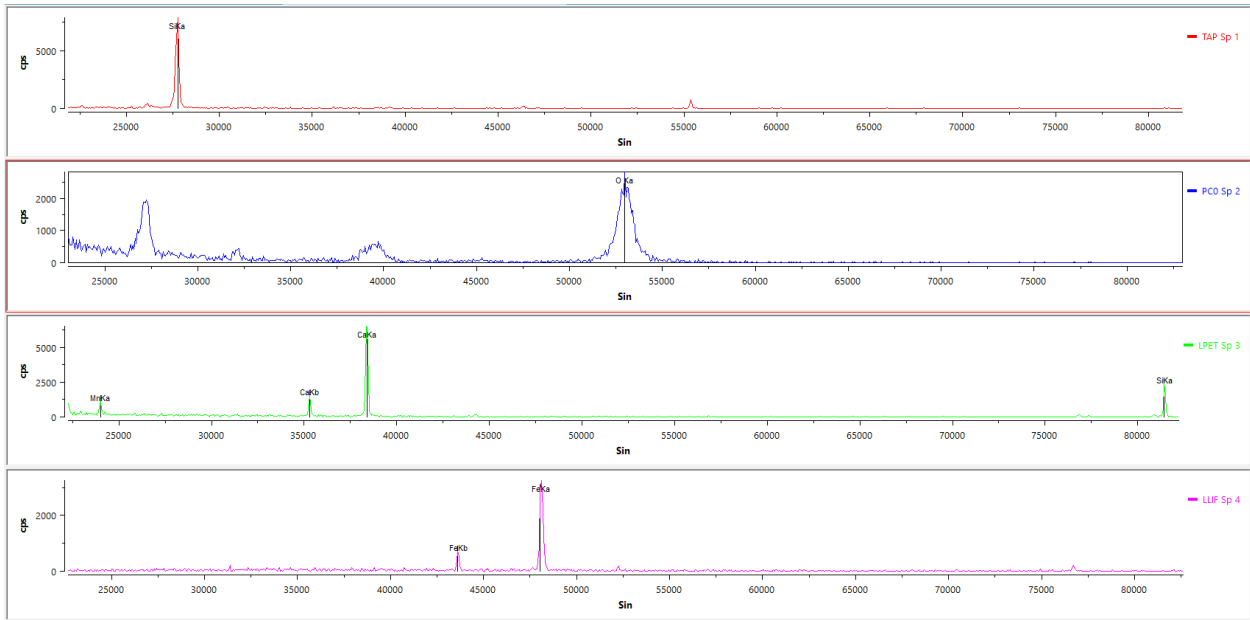
CORN4005_5- Titanomagnetite

CORN 4013- San Antonio Mountain

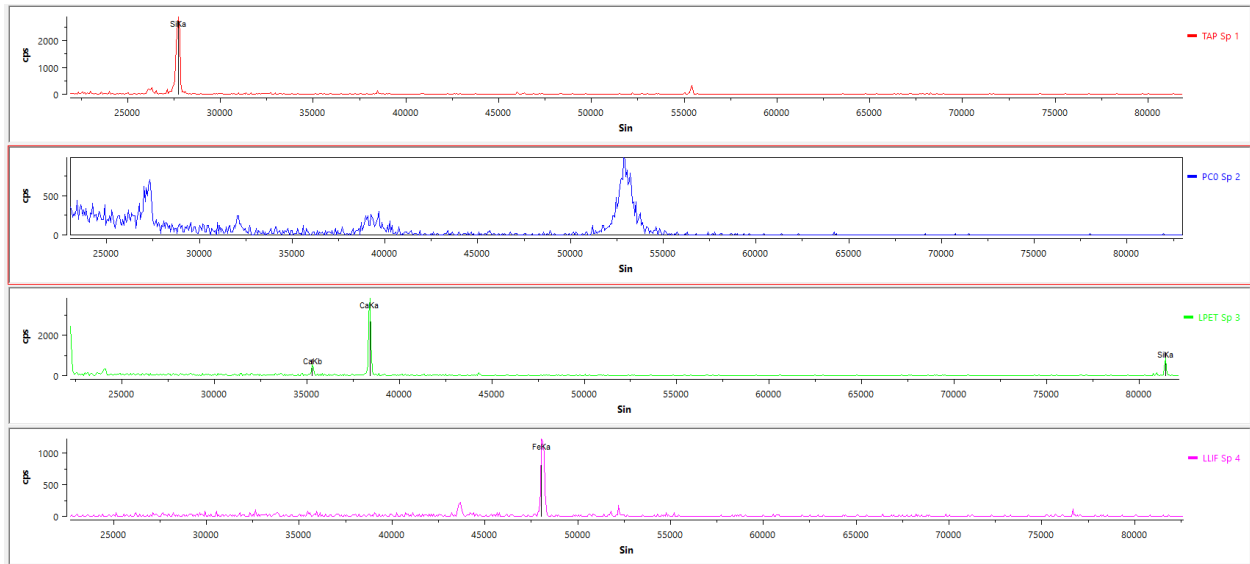
Pyroxenes



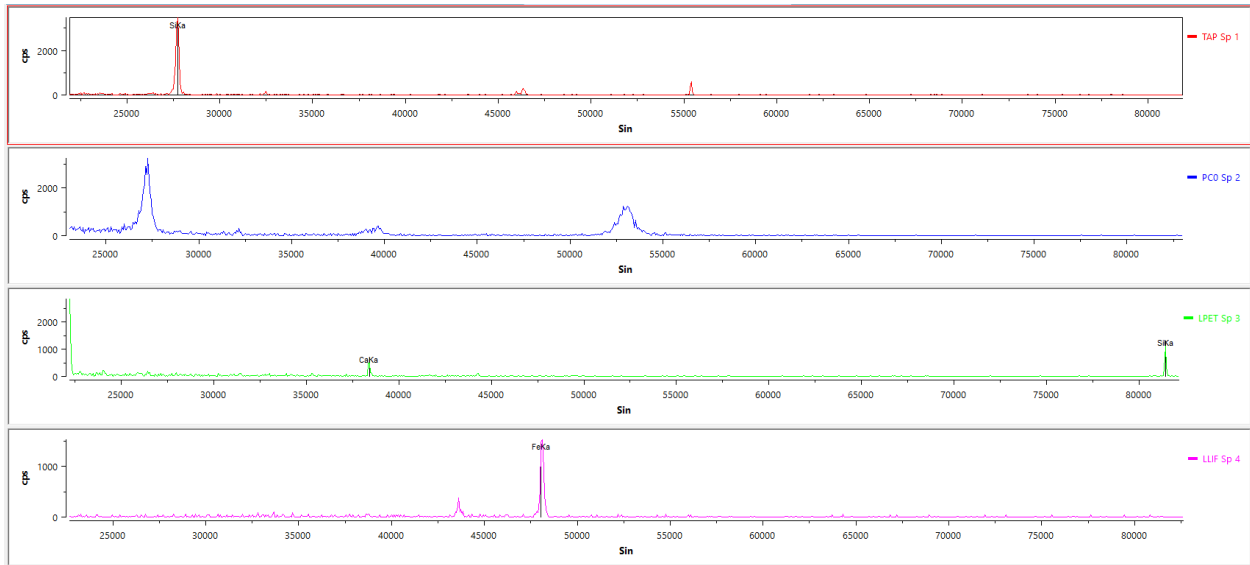
CORN-4013_3- Aegirine-augite



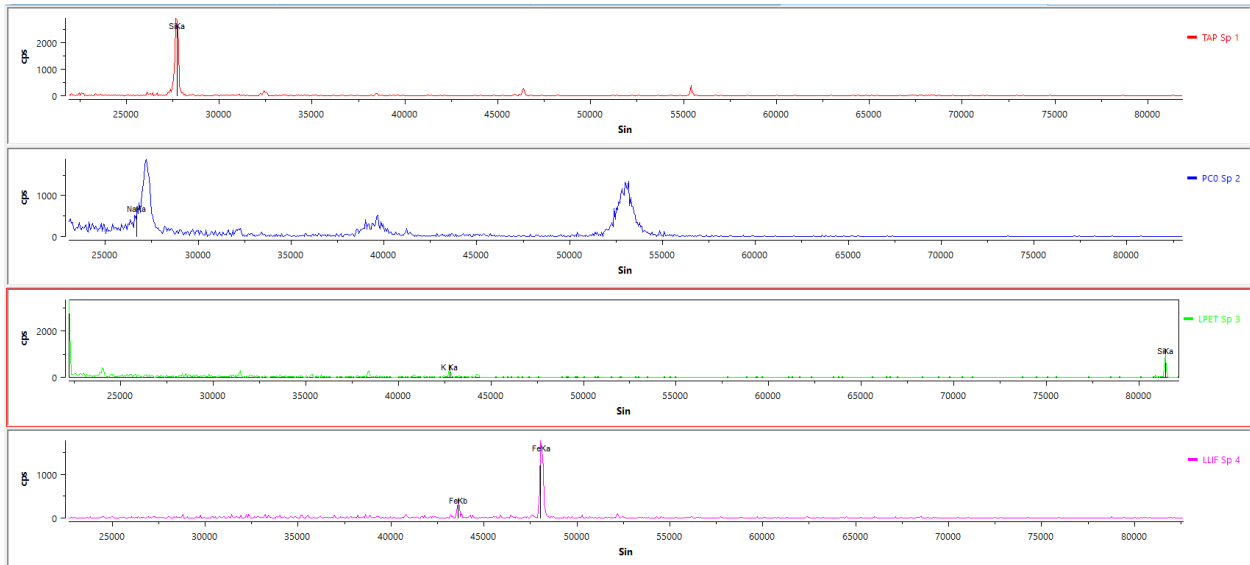
CORN-4013_12- Aegirine-augite



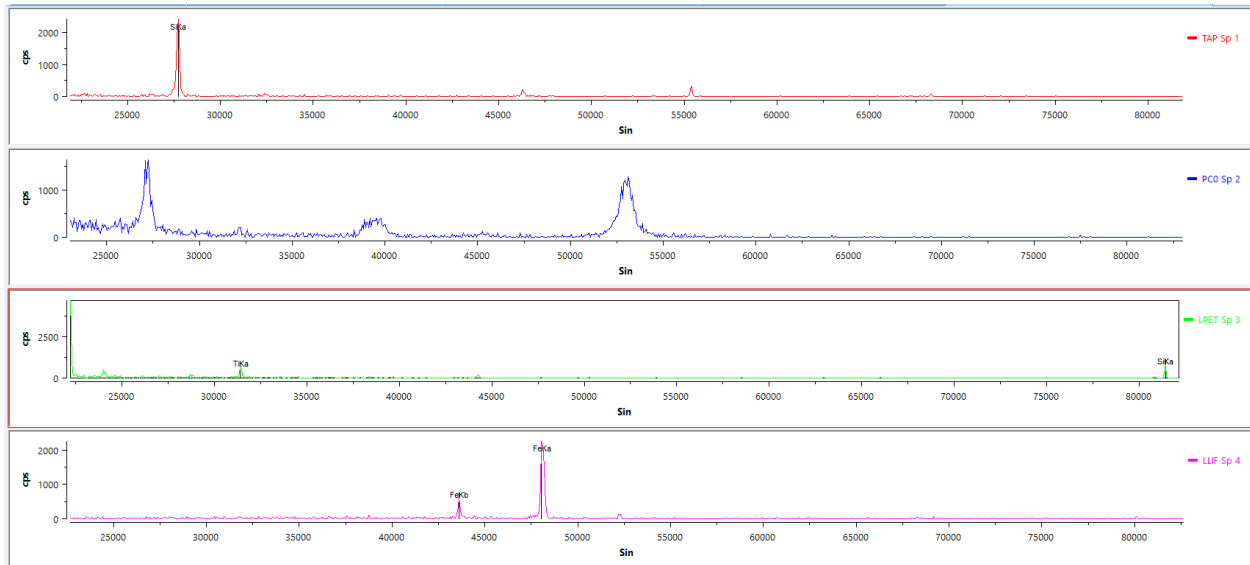
4013_Test_1- Augite



4013_Test_2- Aegirine-augite

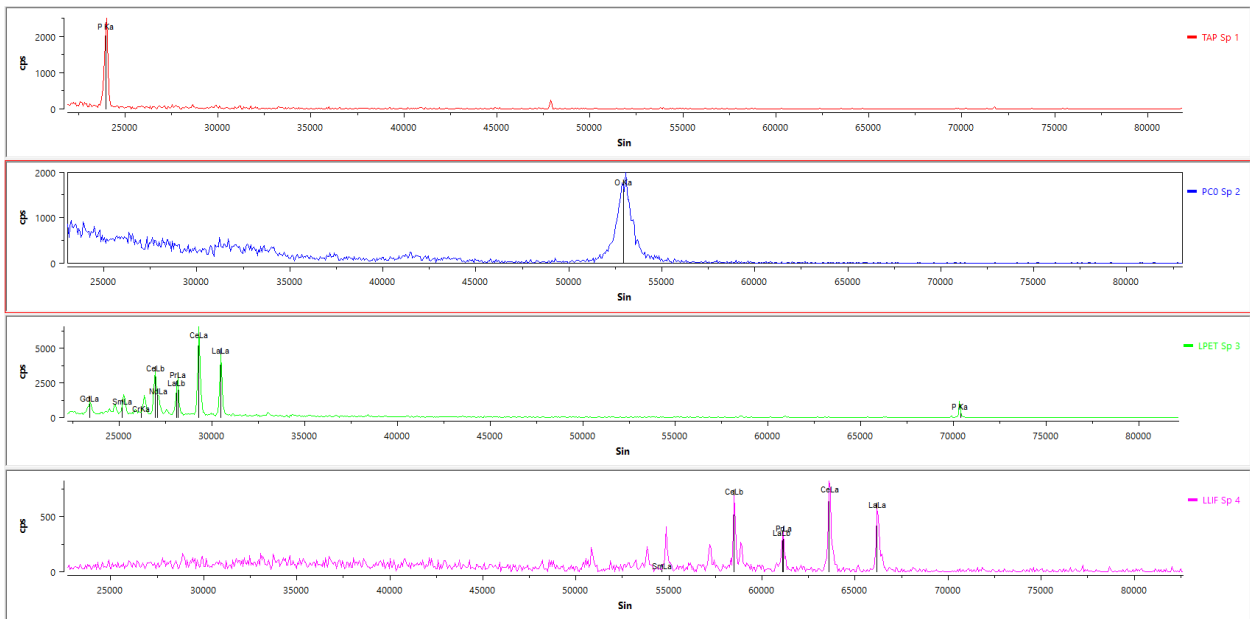


4013_Test_3- Aegirine



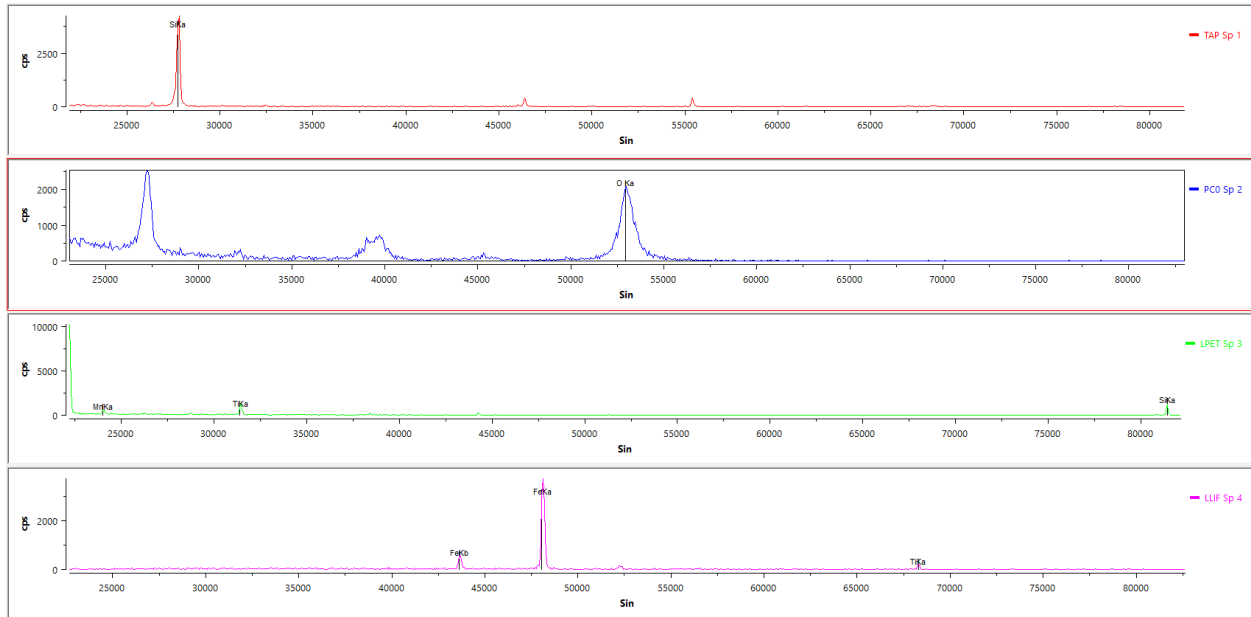
4013_Test_4- Aegirine

REE, Zr, and Nb Phases

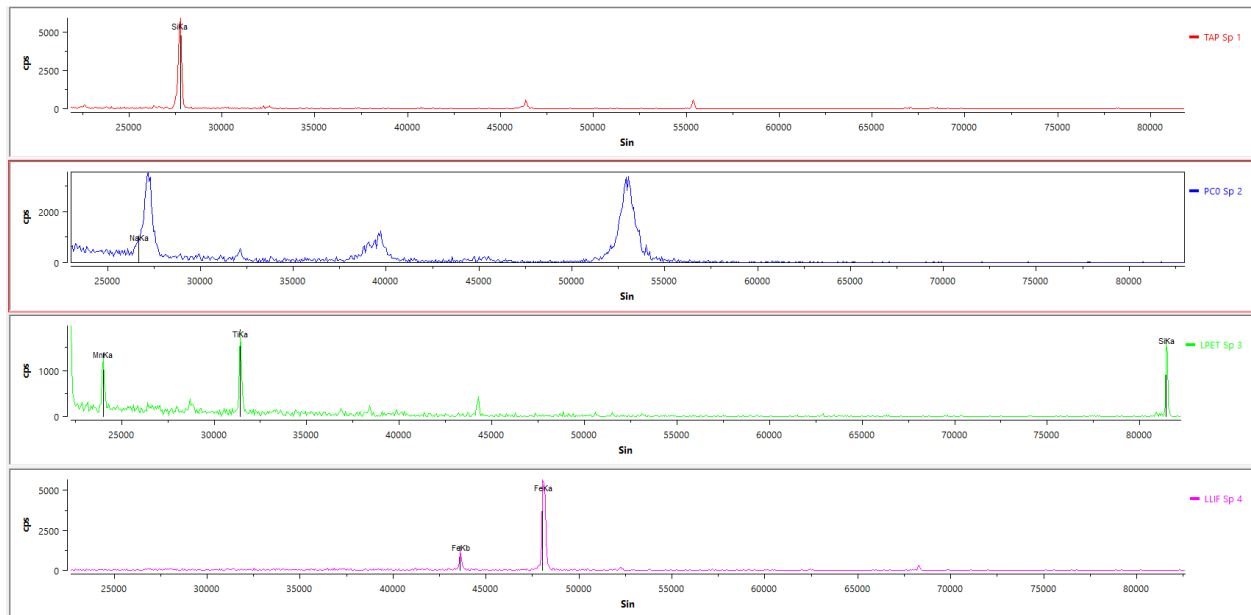


CORN-4013_7- Monazite

Amphiboles

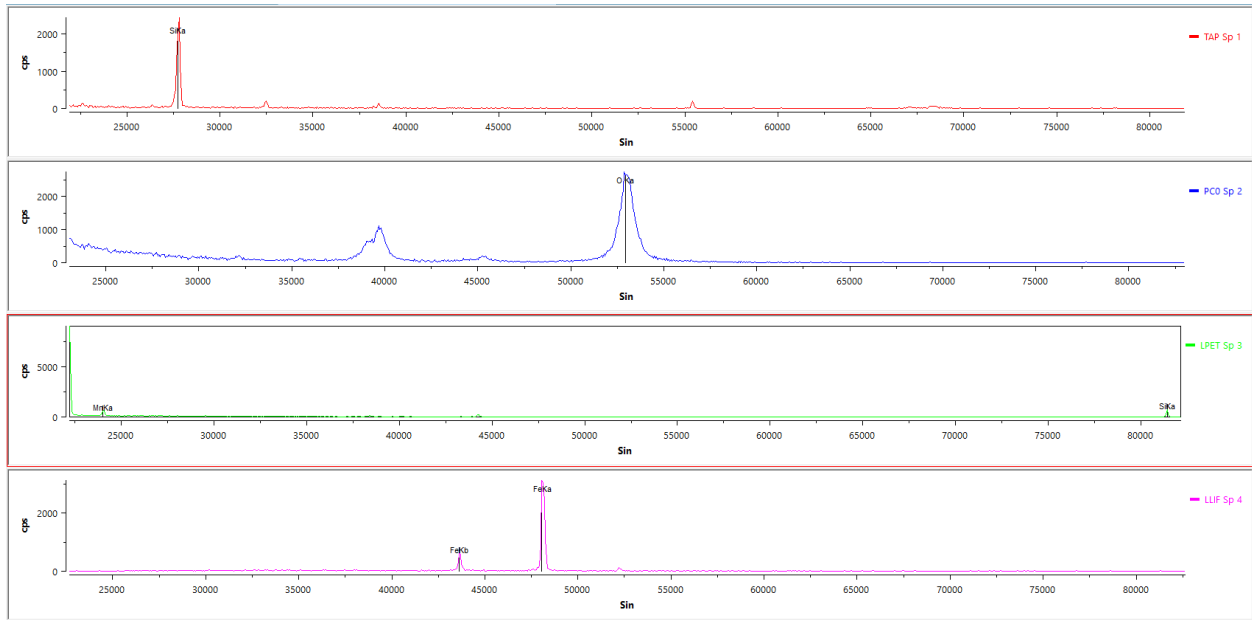


CORN-4013_8- Arfvedsonite

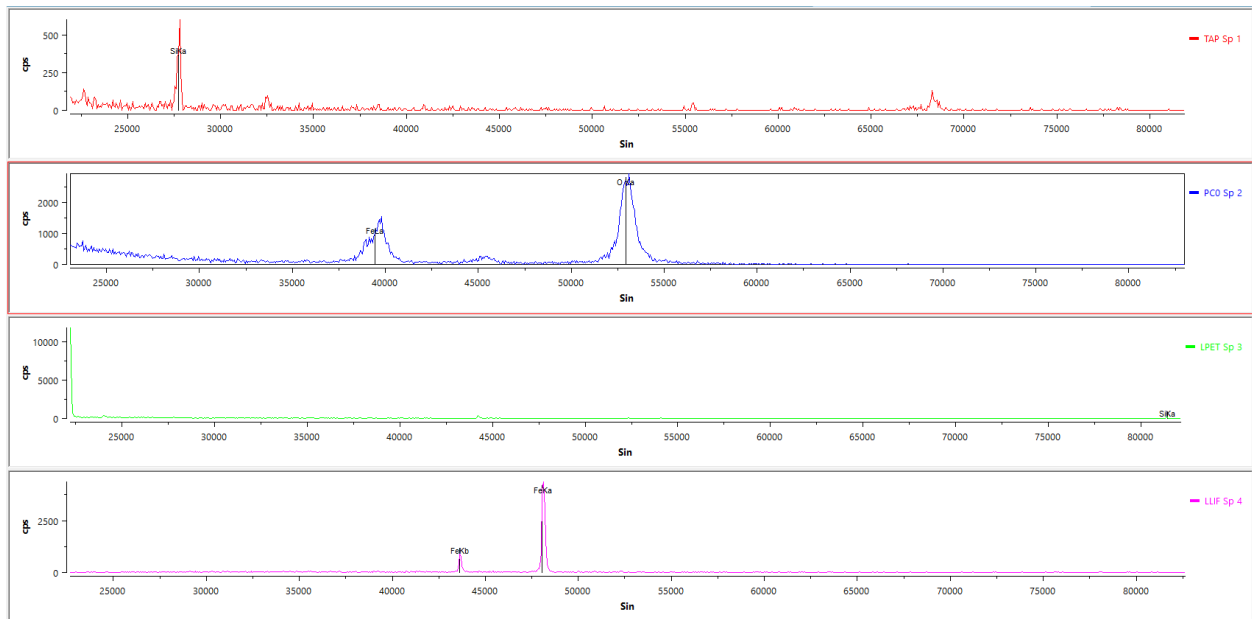


CORN-4013_11- Aenigmatite

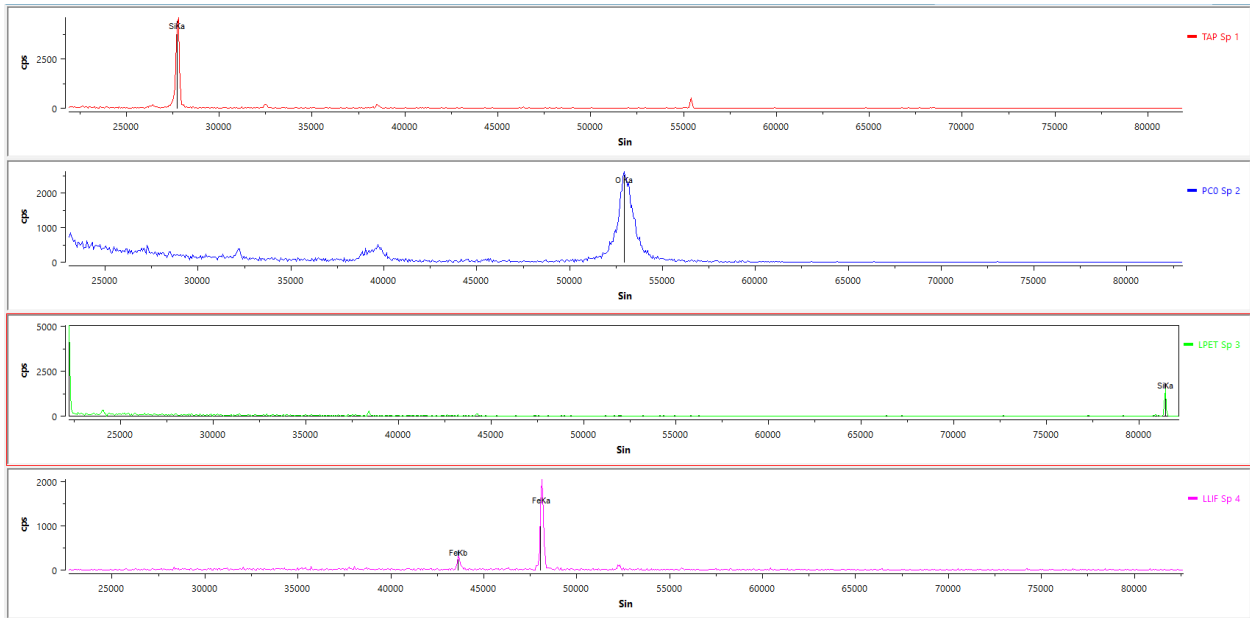
Other Silicates



CORN-4013_2- Fayalite

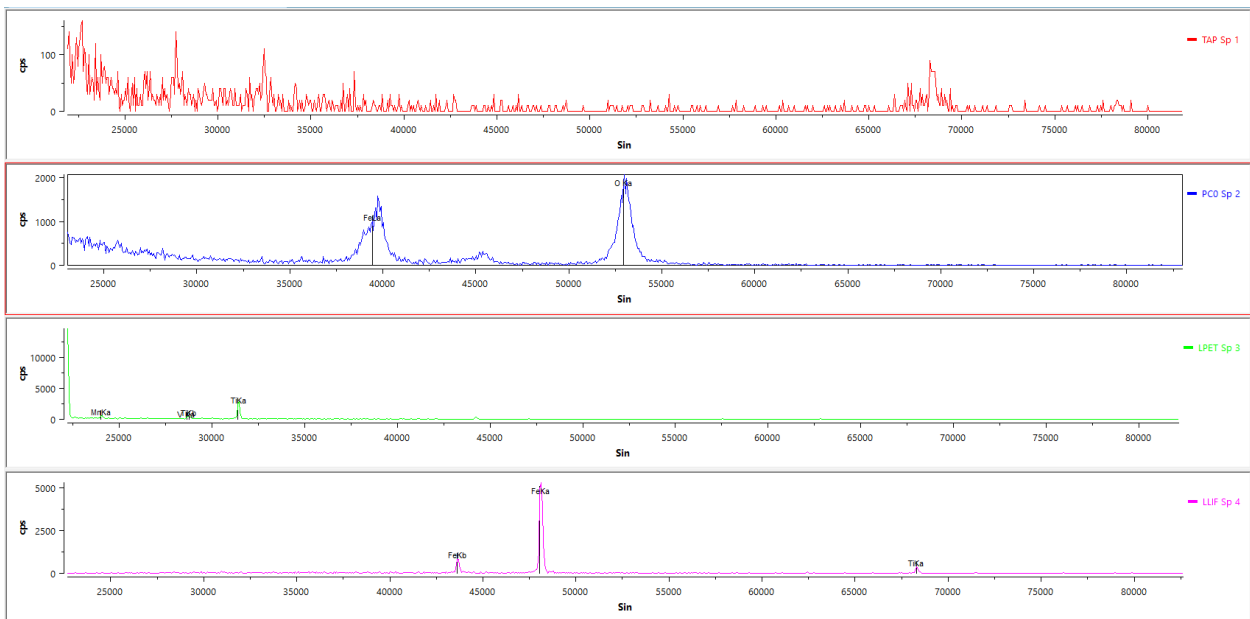


CORN-4013_4- Fayalite

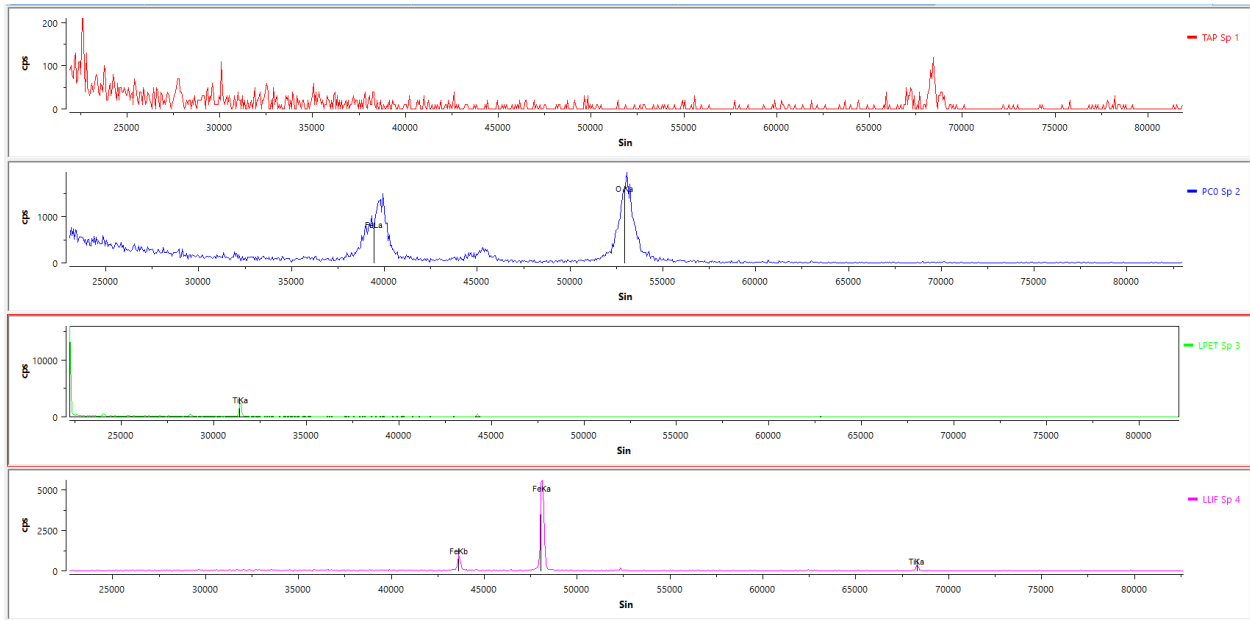


CORN-4013_5- Fayalite

Oxides



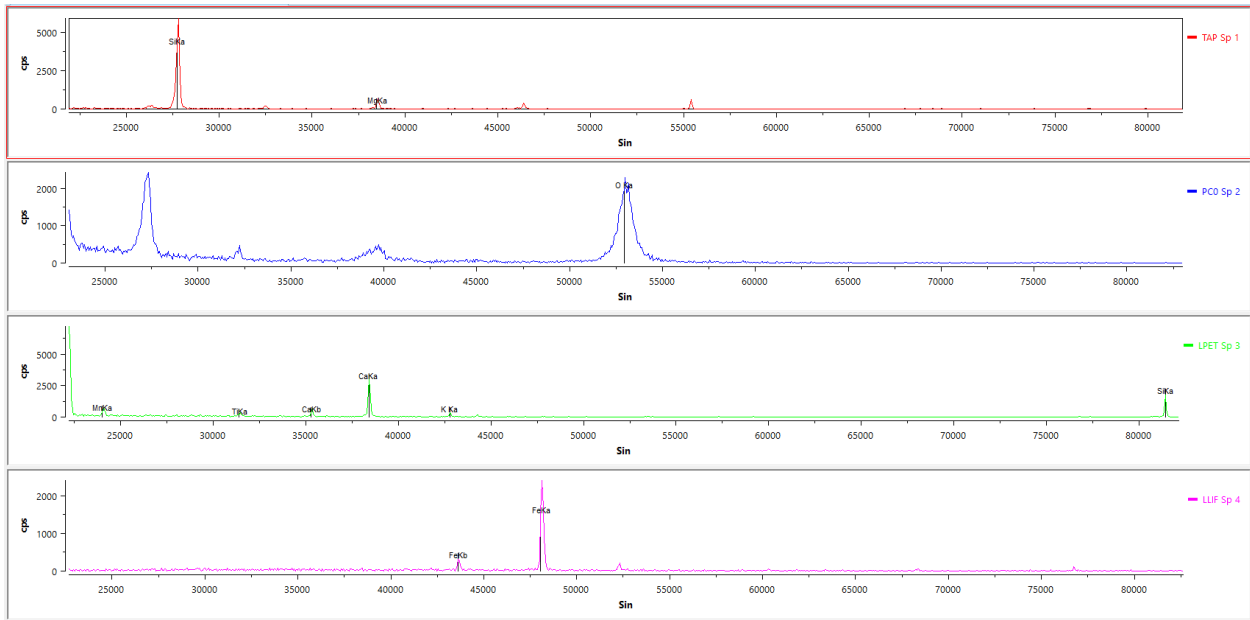
CORN-4013_1- Titanomagnetite



CORN-4013_6- Titanomagnetite

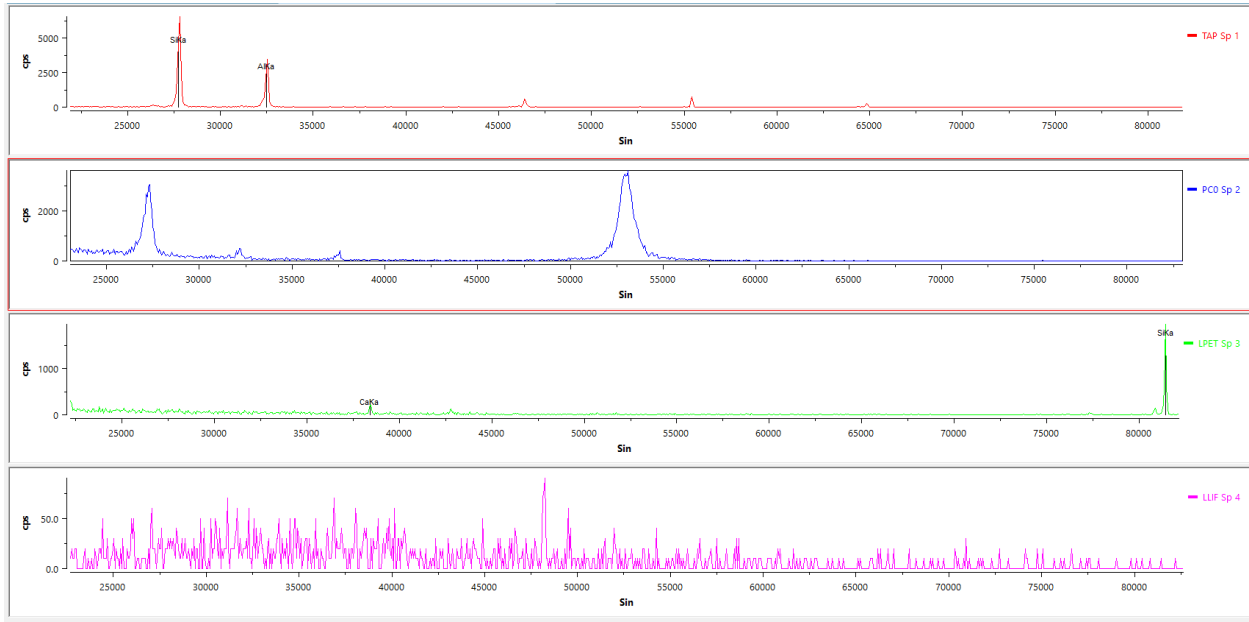
CORN 4014- Chatfield Mountain

Pyroxenes

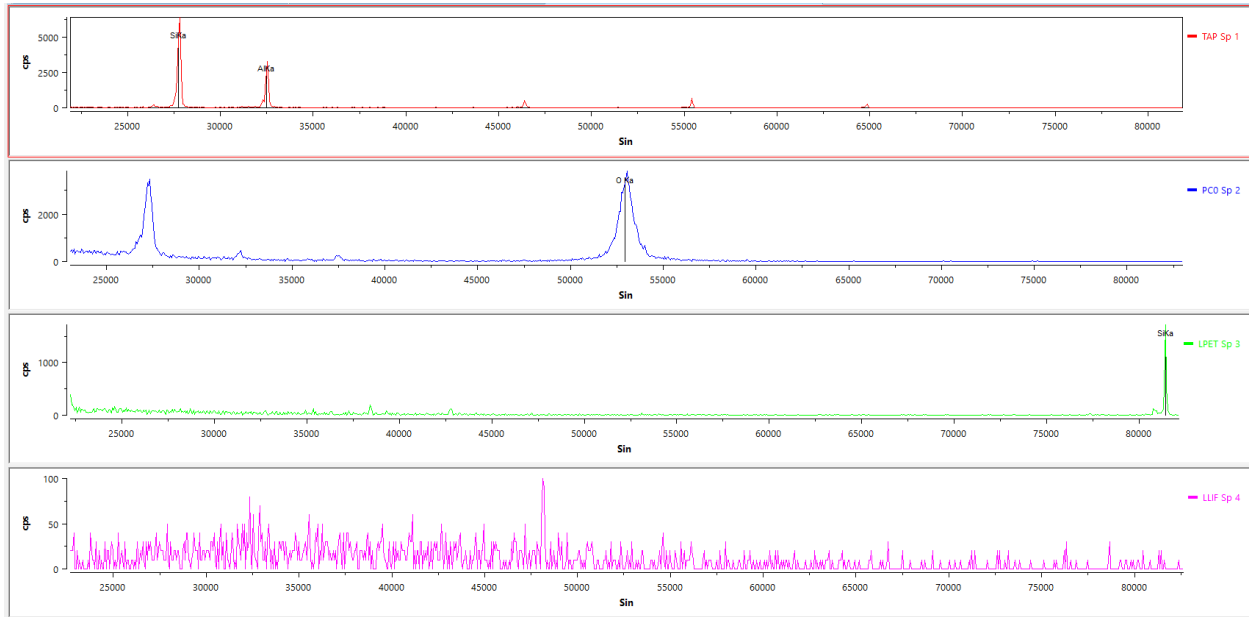


CORN-4014_1- Aegirine-augite

Feldspars and Feldspathoids

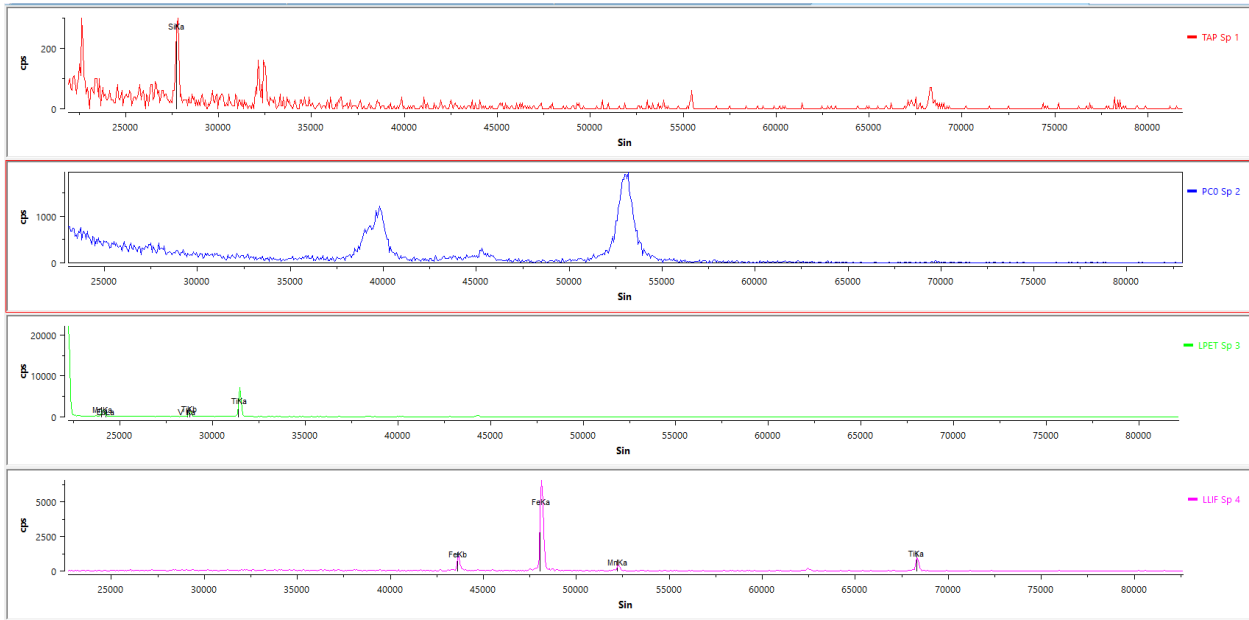


CORN4014_2- Albite



CORN-4014_3- Albite

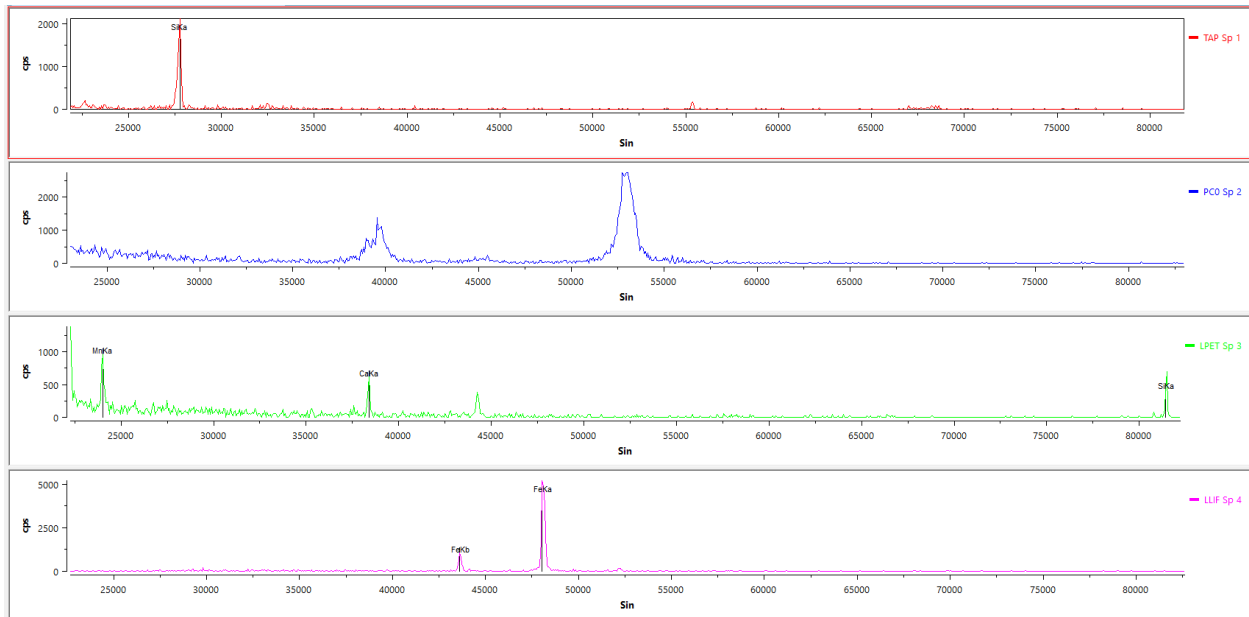
Oxides



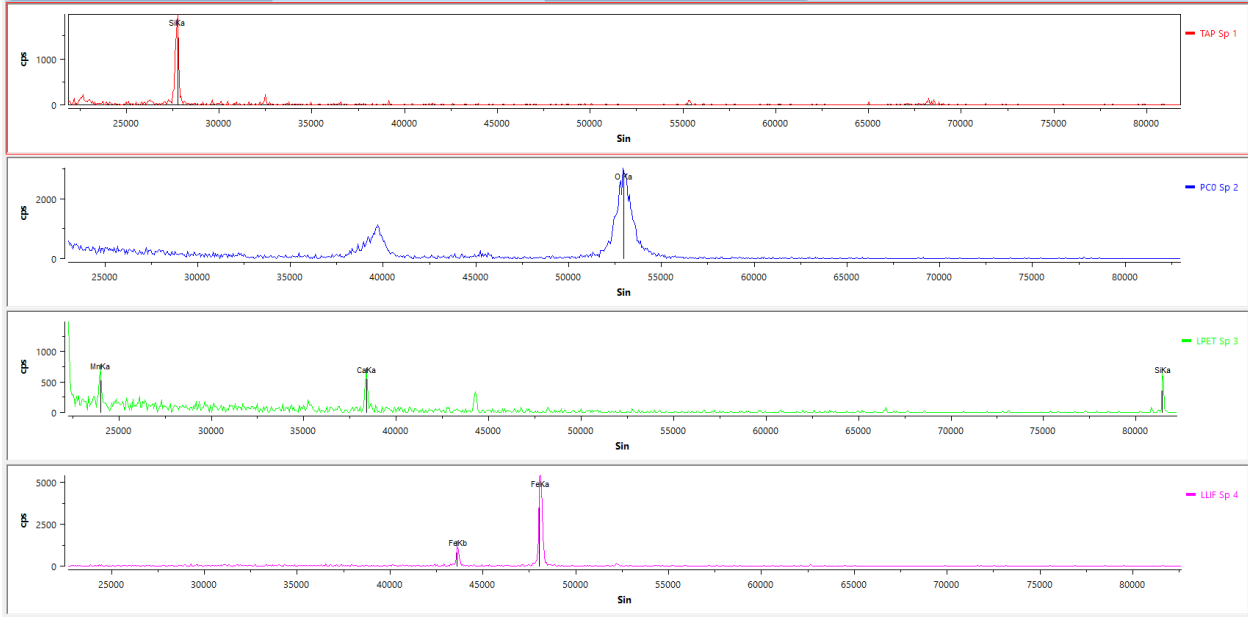
CORN-4014_4- Titanomagnetite Mixed Phase

CORN 4019- Sill West of Cornudas Mountain

Pyroxenes

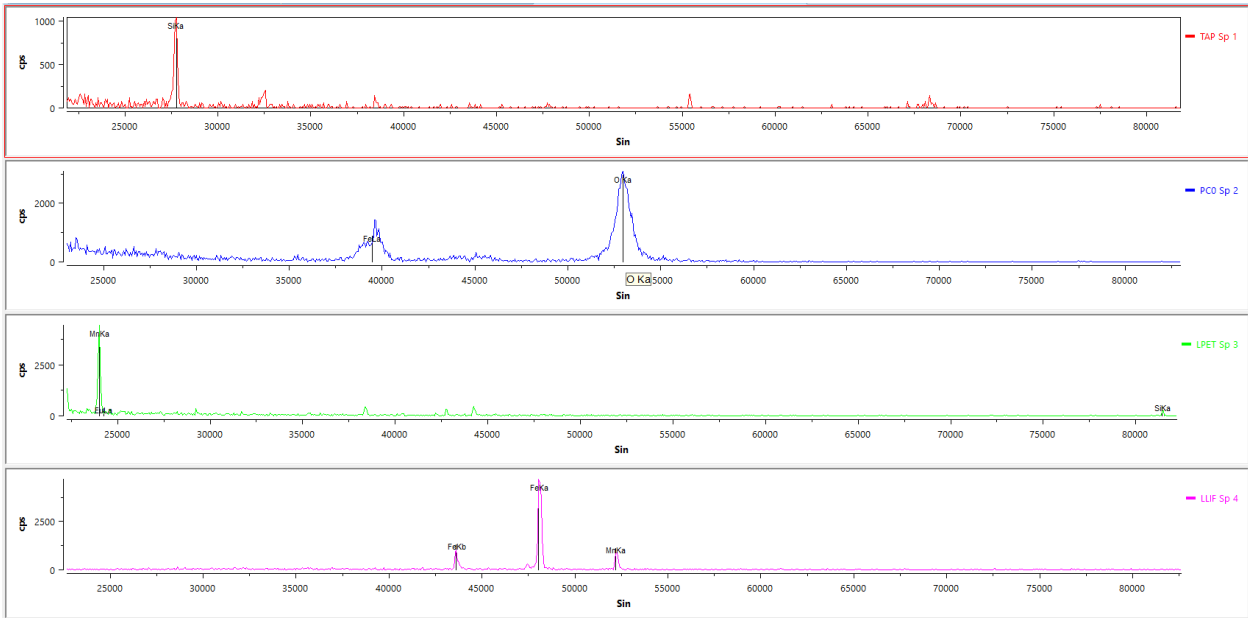


CORN4019_1- Augite



CORN4019_2- Augite

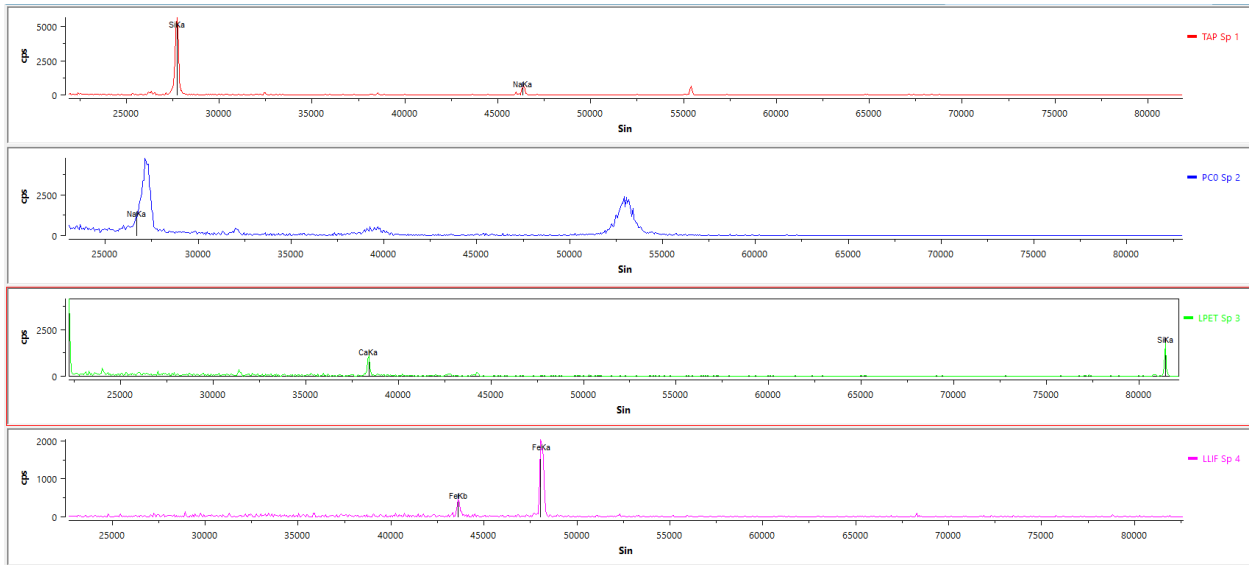
Other Silicates



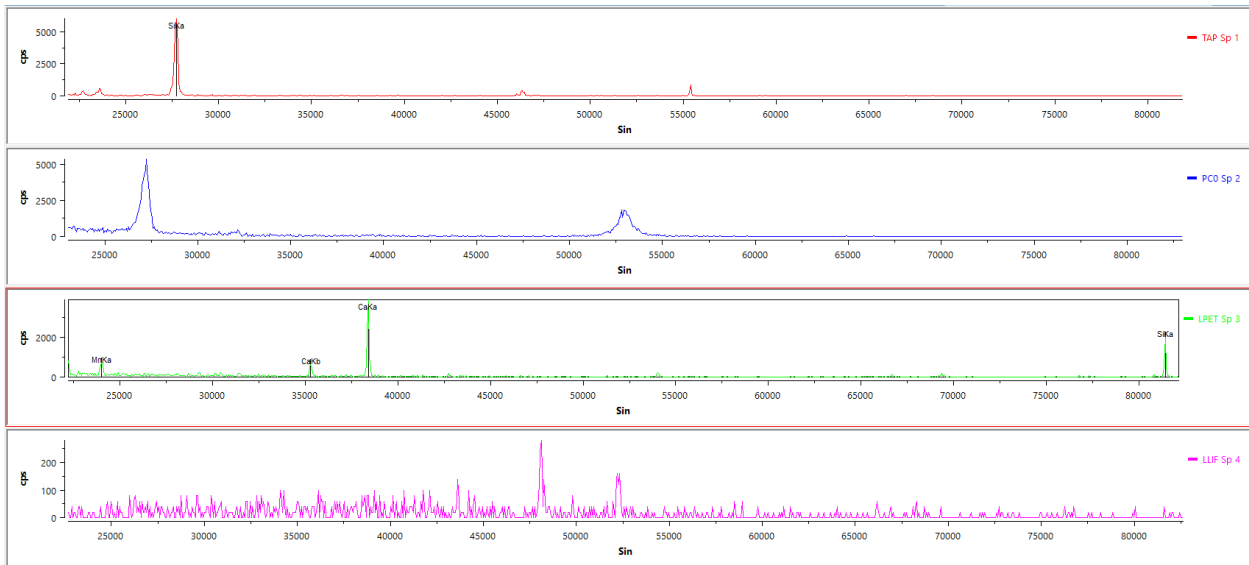
CORN4019_3- Calderite

CORN 4020- Cornudas Mountain

Pyroxenes

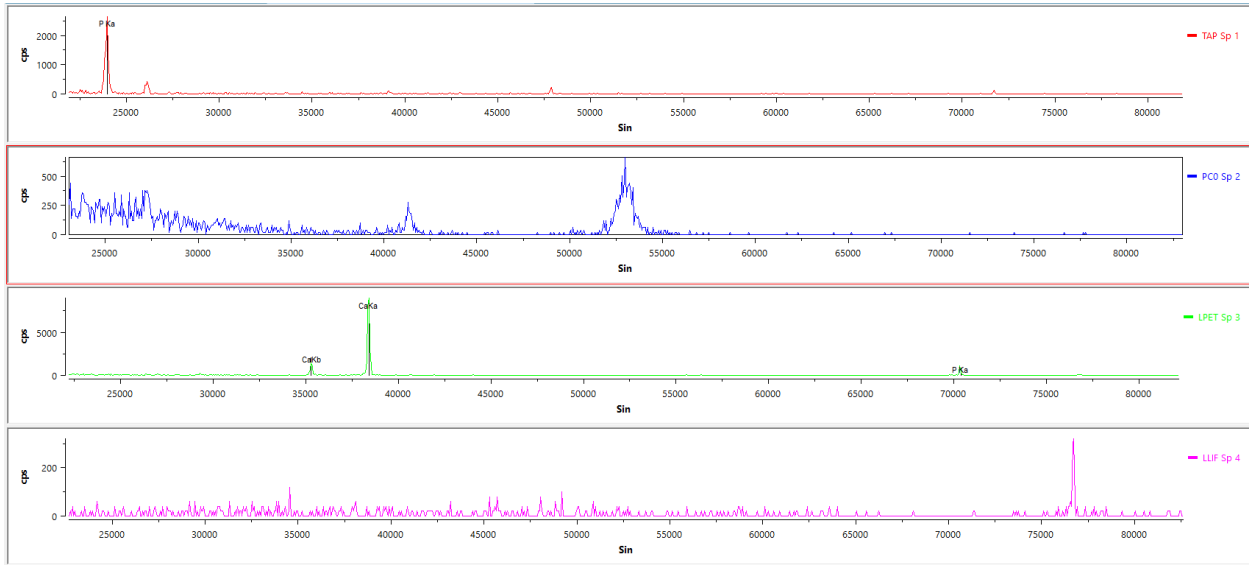


4020_Test_8- Aegirine-augite



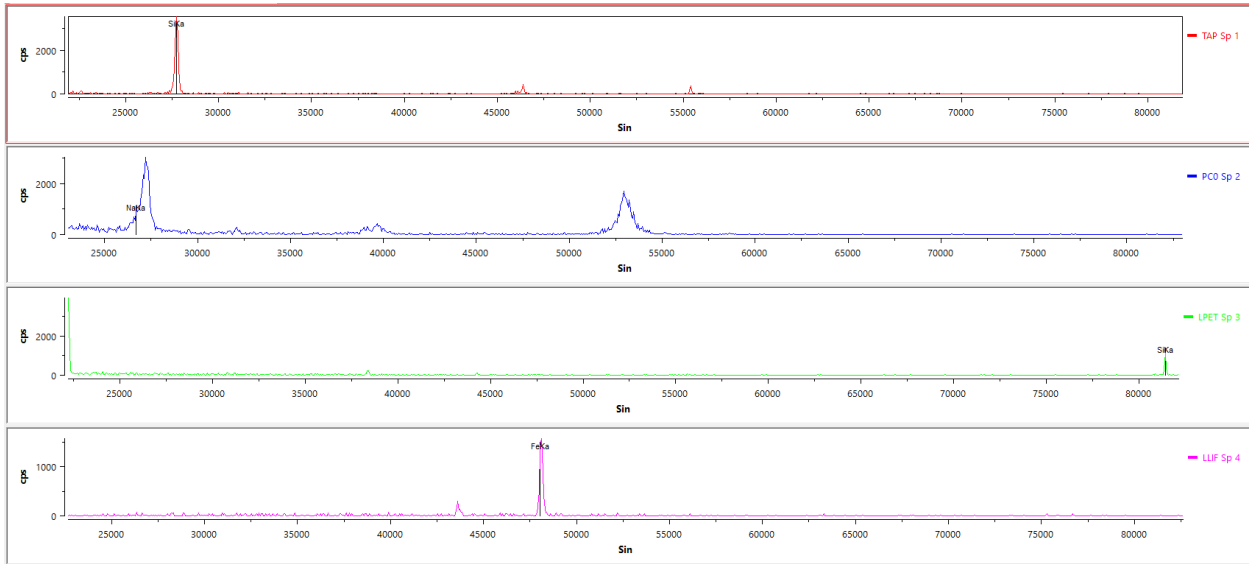
4020_Test_9- Aegirine-augite

REE, Zr, and Nb Phases

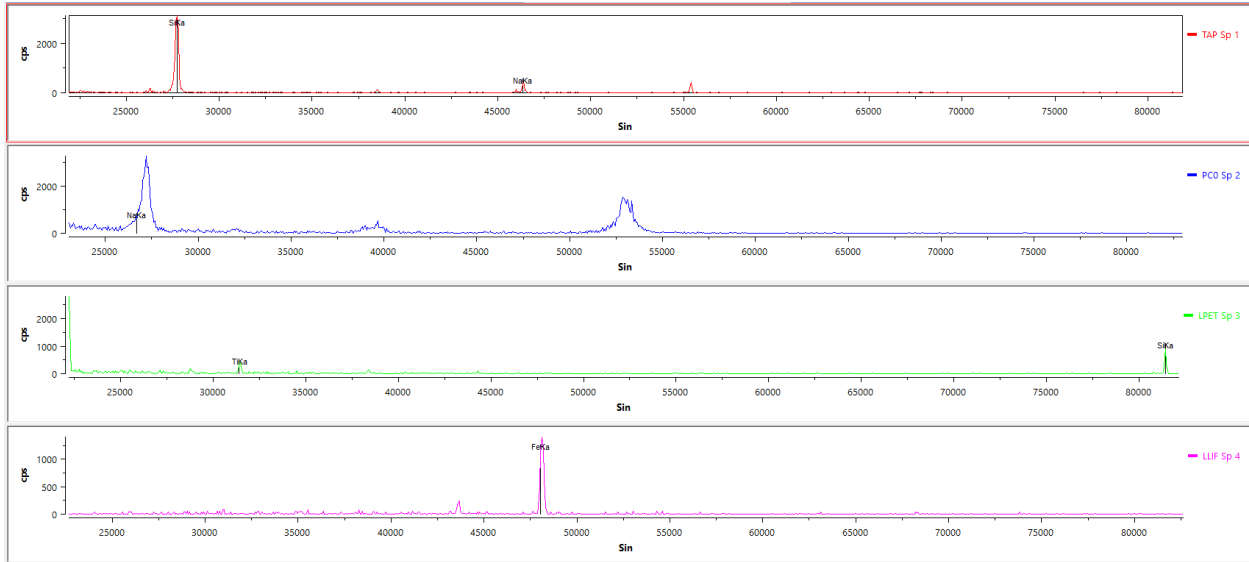


4020_Test_2- Apatite

Amphiboles

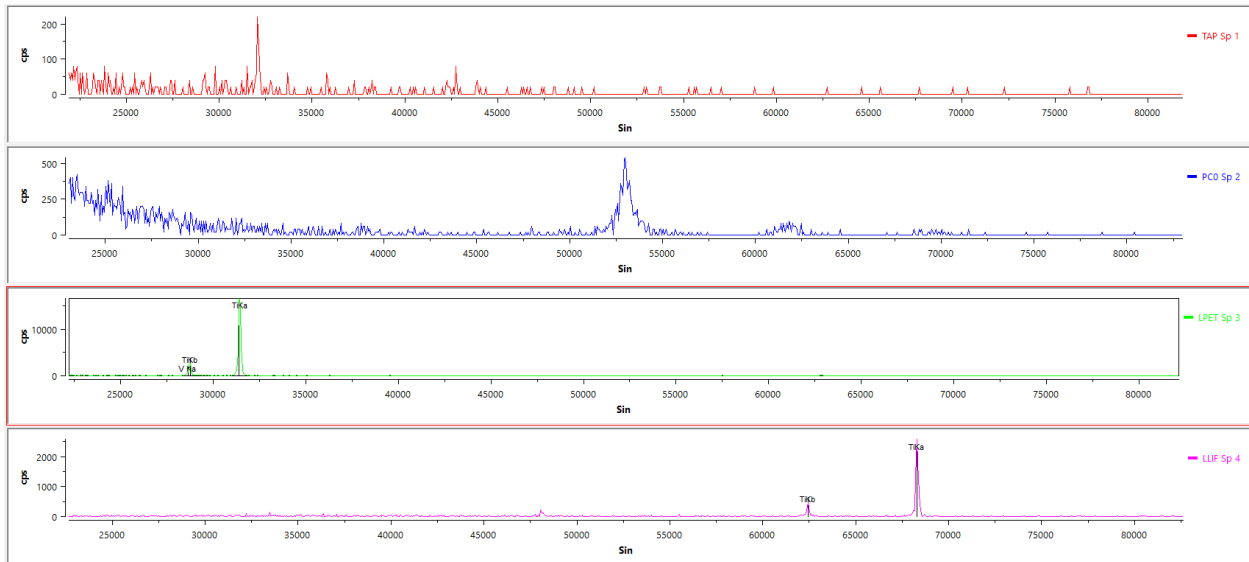


4020_Test_1- Arfvedsonite

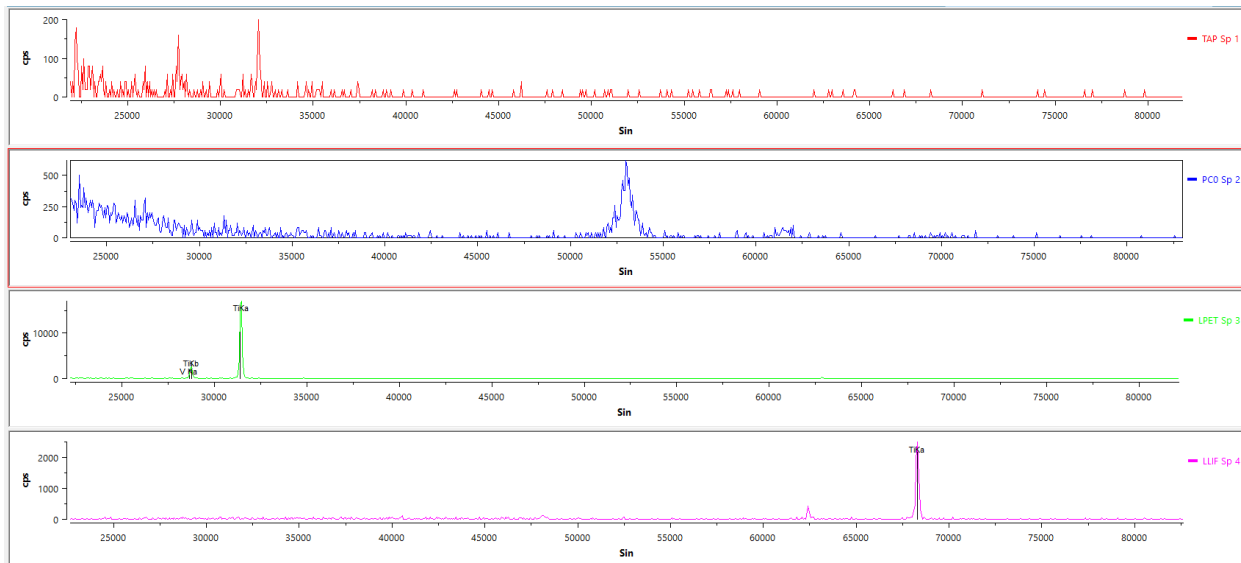


4020_Test_5- Arfvedsonite

Oxides



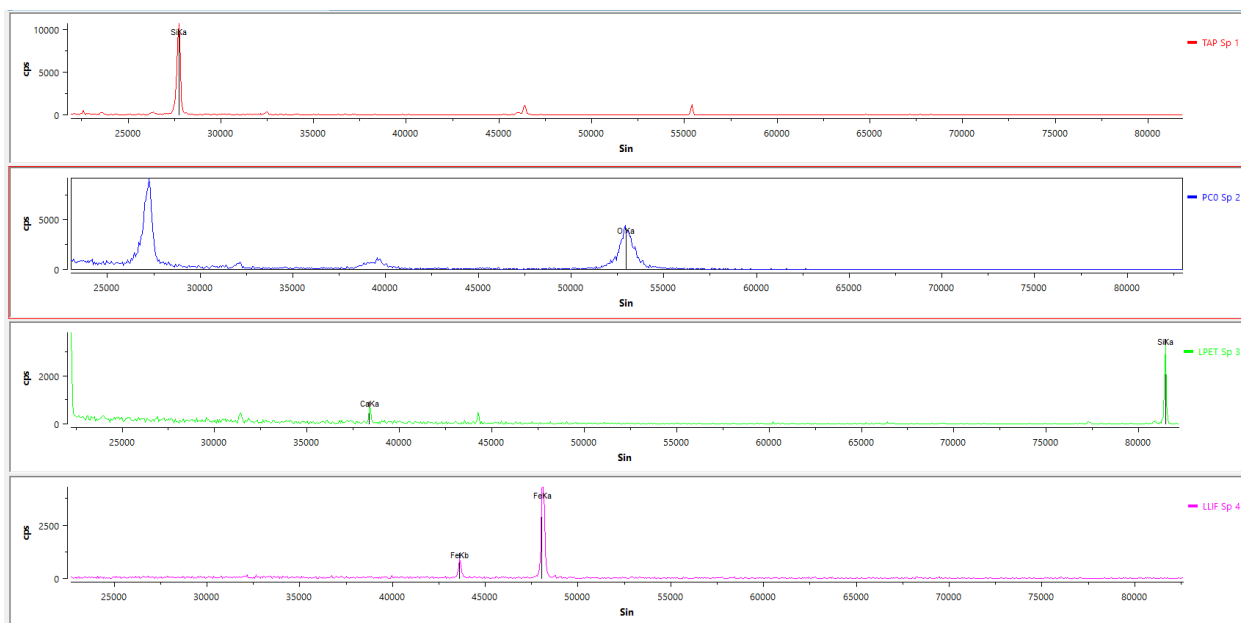
4020_Test_6- Anatase



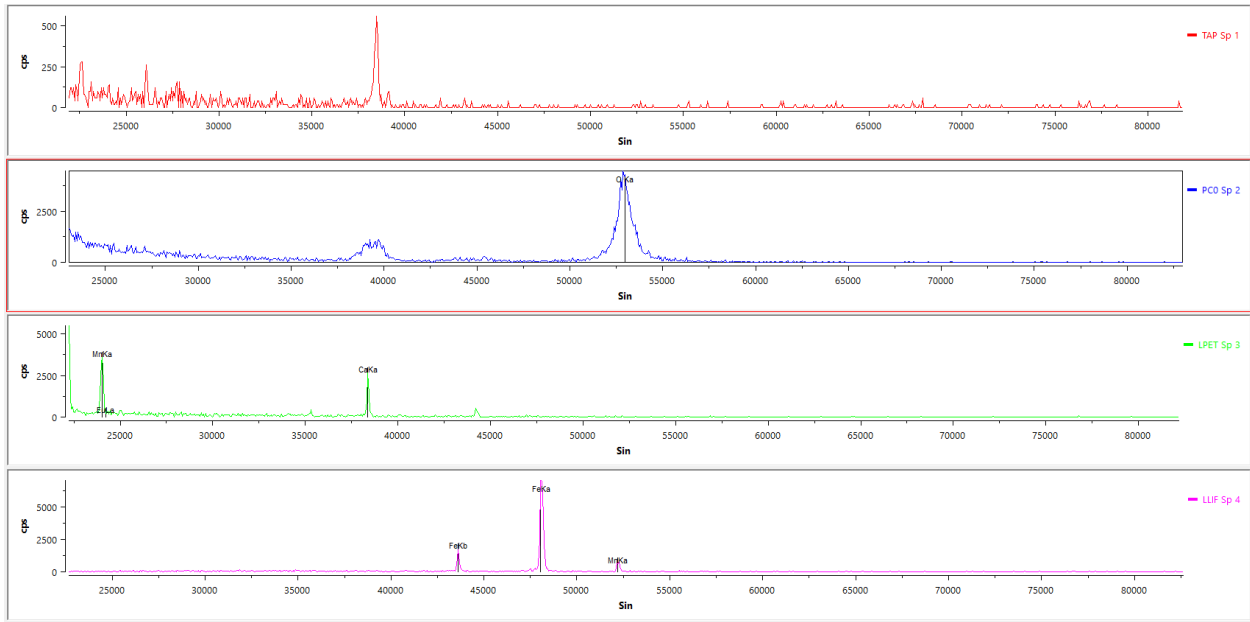
4020_Test_7- Anatase

55615-01-015- Wind Mountain

Pyroxenes

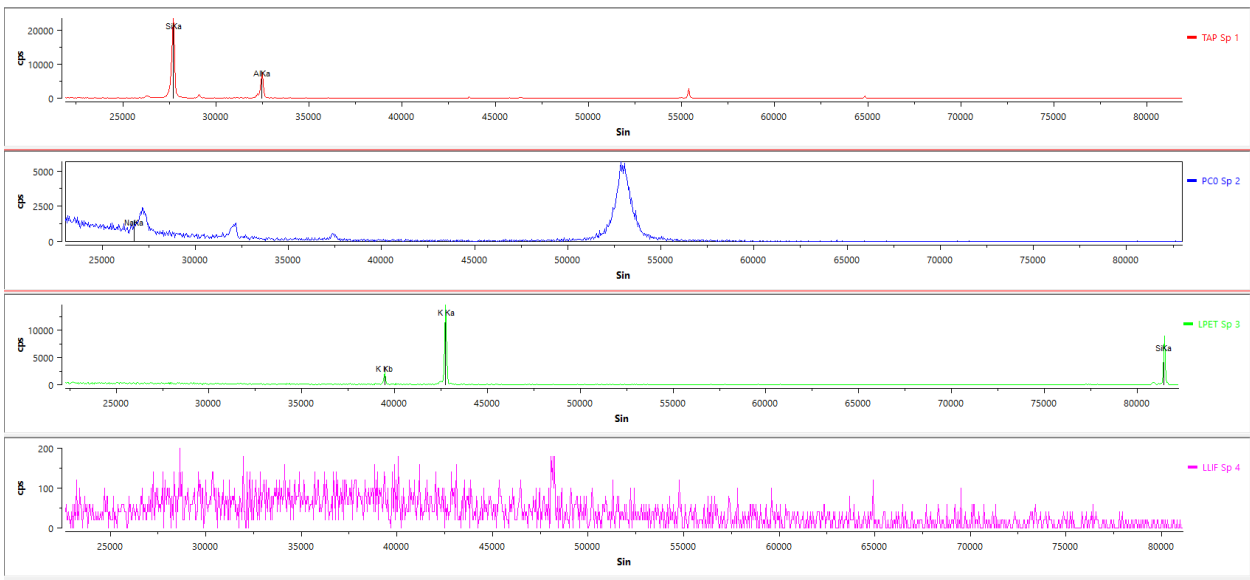


55615-01-015_2Test_1- Aegirine-augite



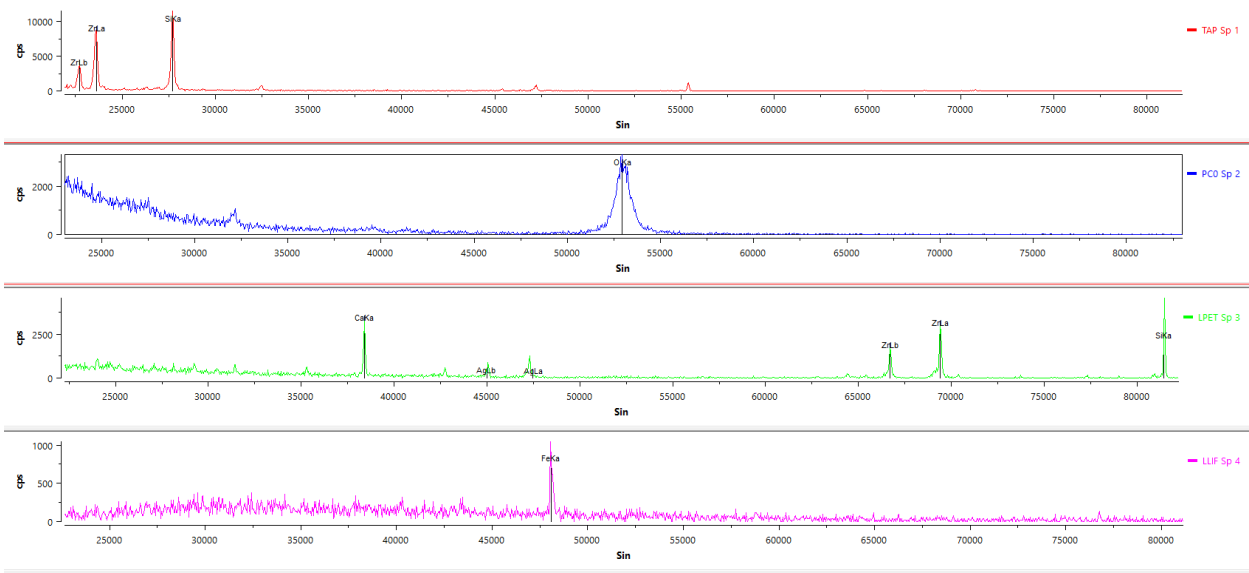
55615-01-015_2Test_4- Augite

Feldspars and Feldspathoids

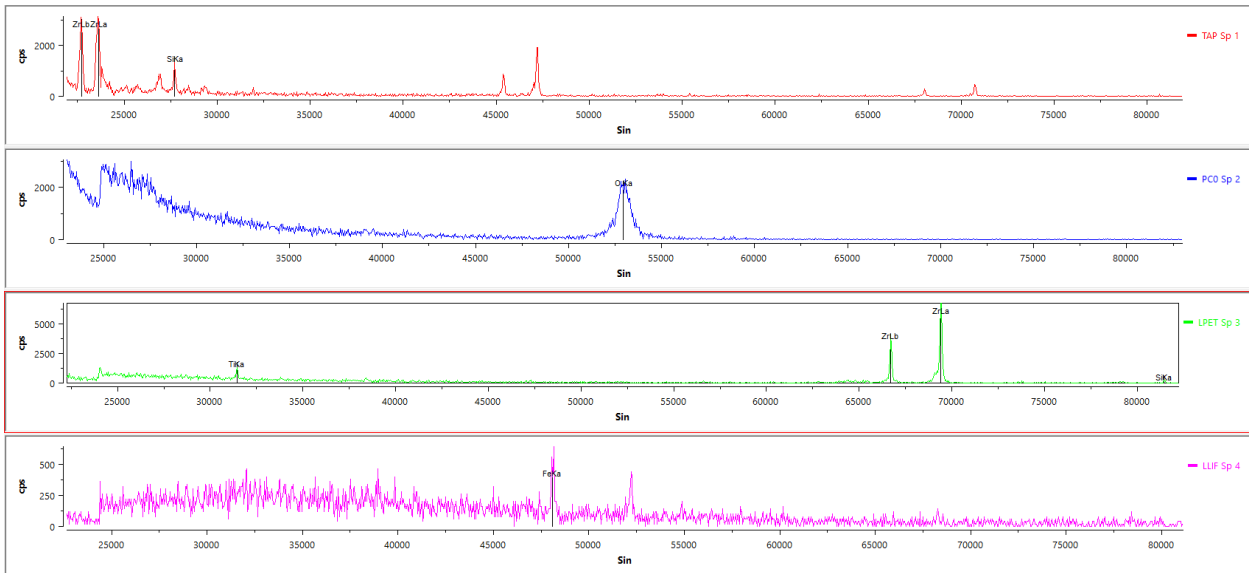


55615-01-015L-02_REE_4- Potassium Feldspar

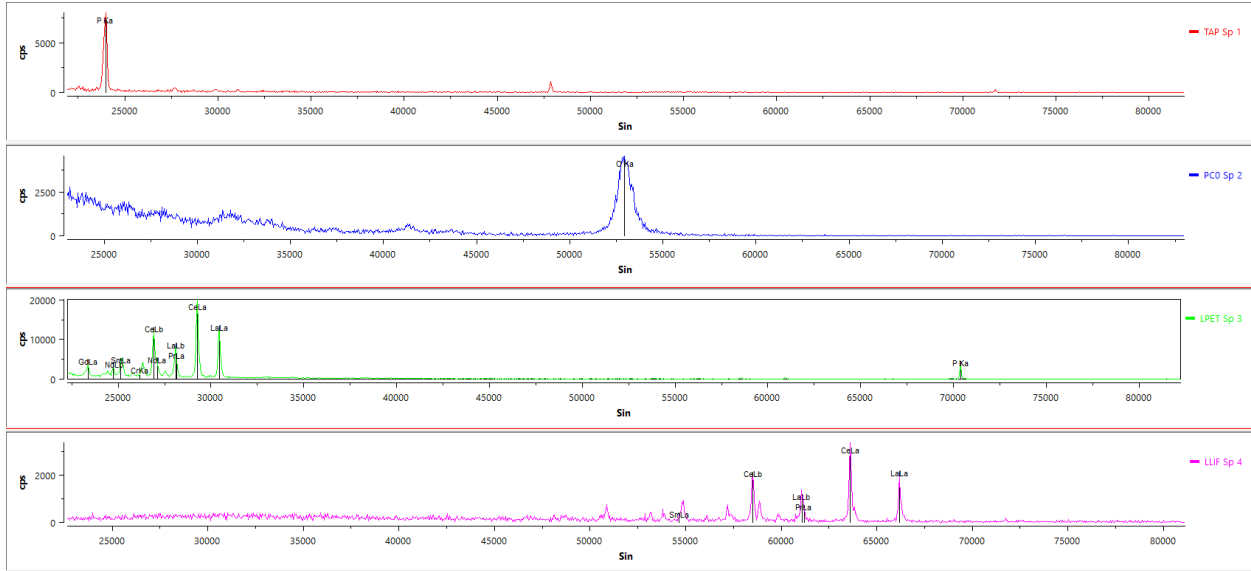
REE, Zr, and Nb Phases



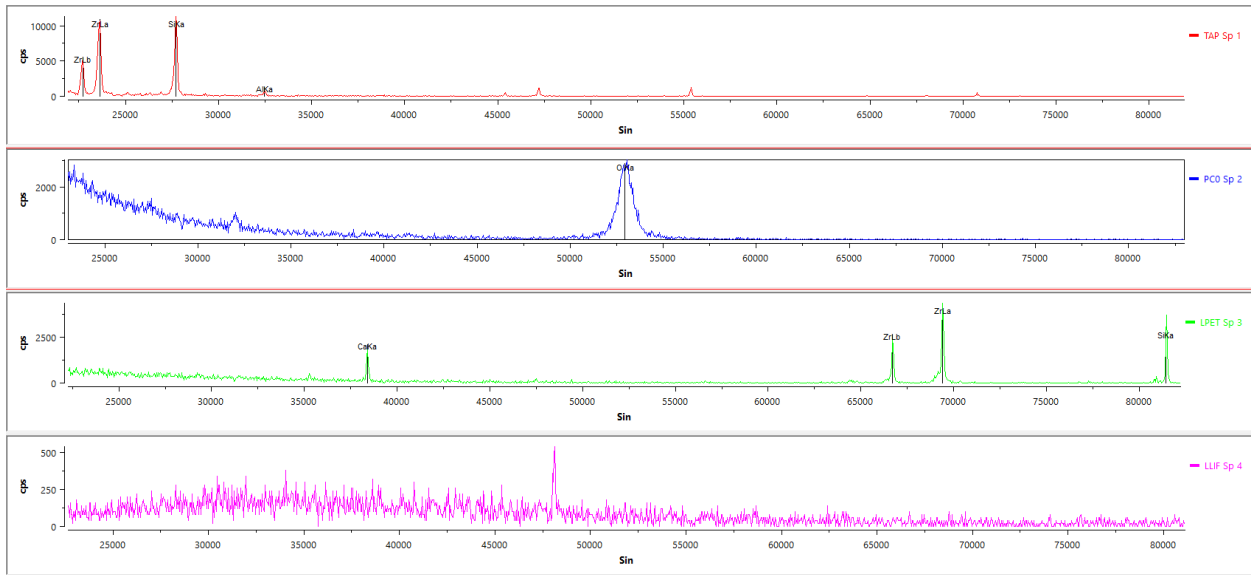
55615-01-015L-01_REE-1- Calcicocatapleite



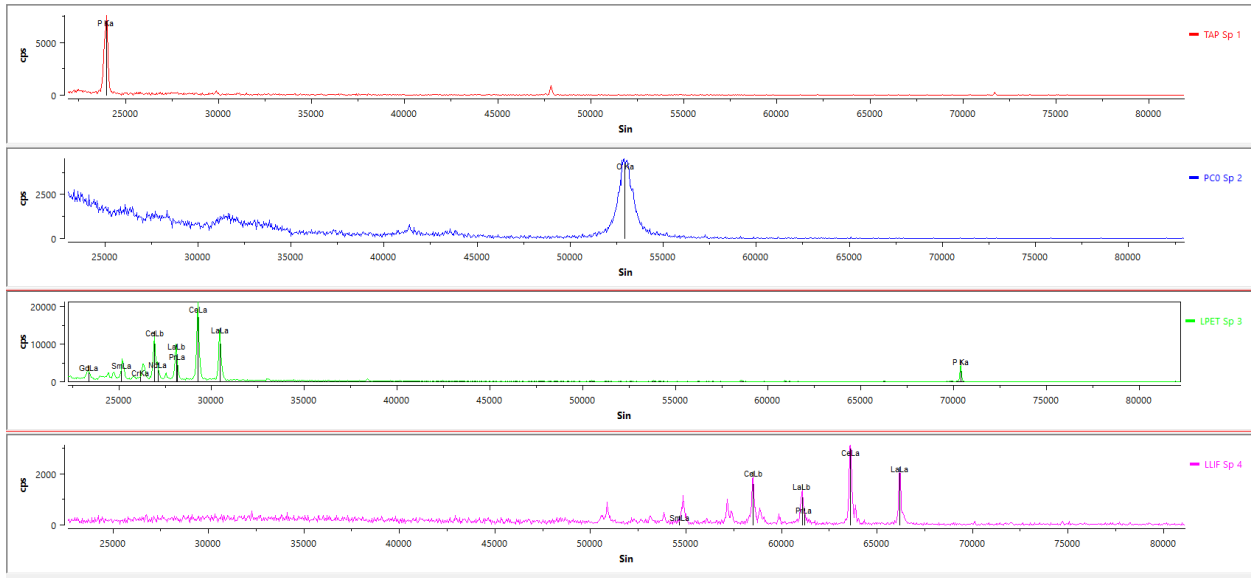
55615-01-015L-01_REE-2- Zircon



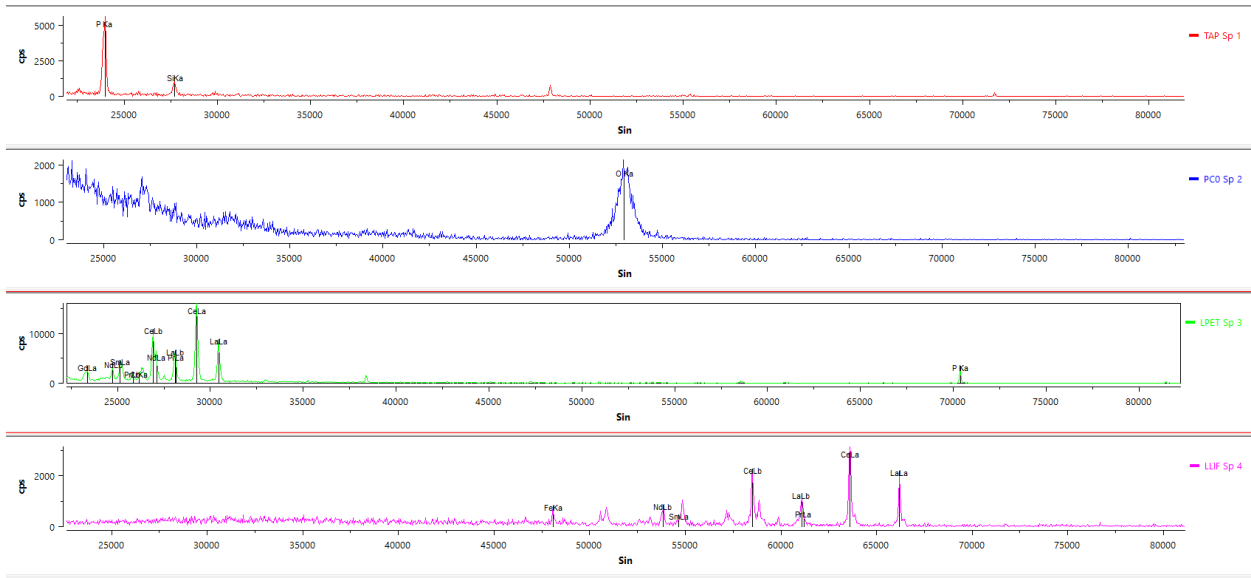
55615-01-015L-01_REE-4- Monazite



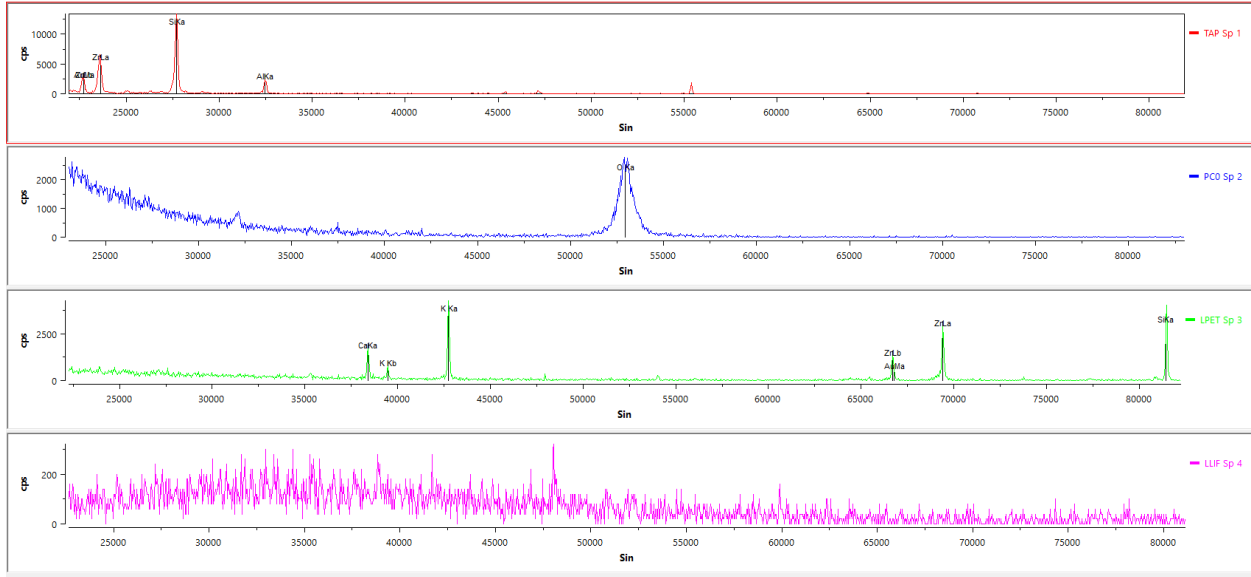
55615-04-015L-01_REE-5- Calciocatapleite



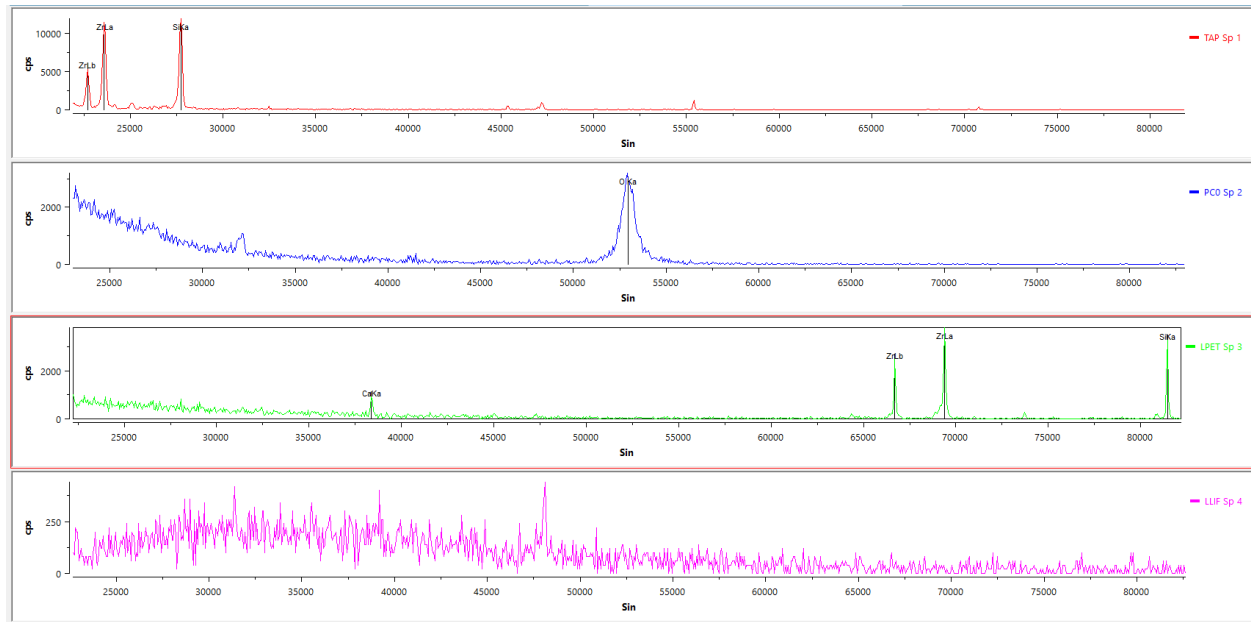
55615-01-015L-01_REE-6- Monazite



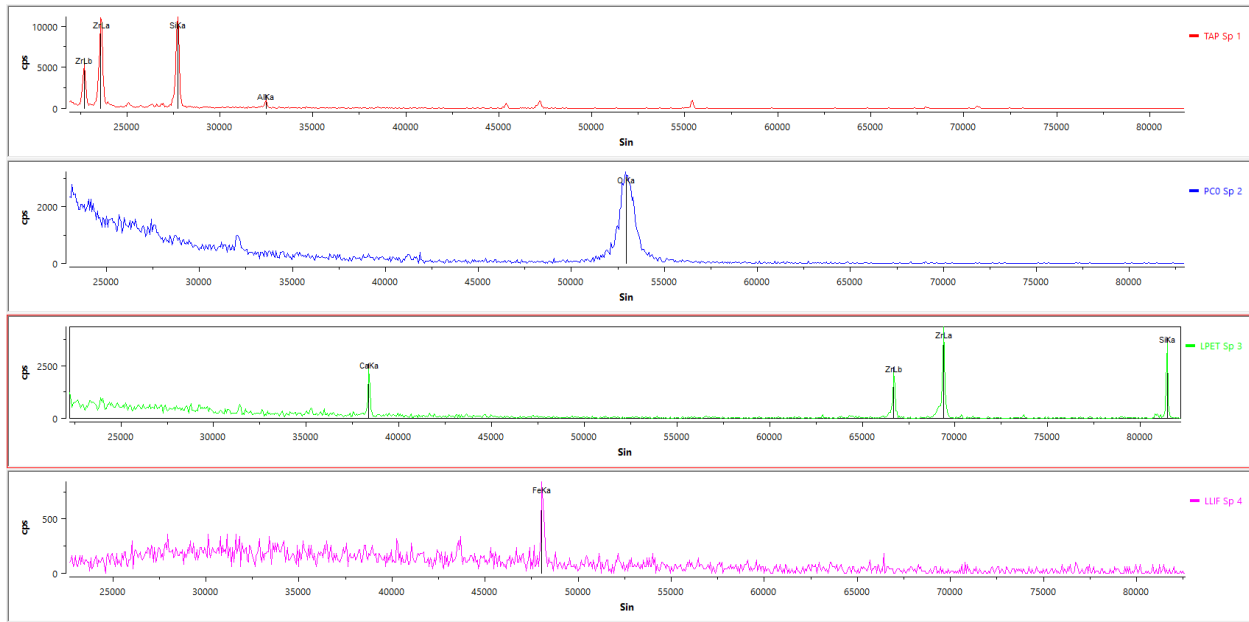
55615-01-015L-01_REE-7- Monazite



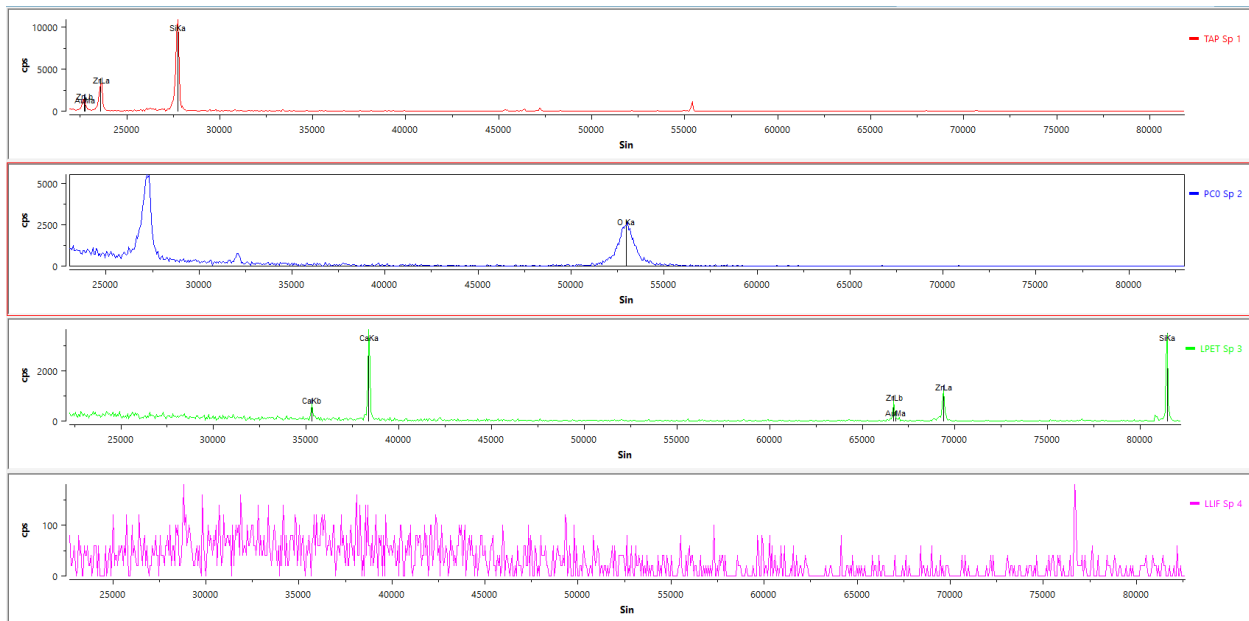
55615-01-015L-02_REE_1- Aqualite



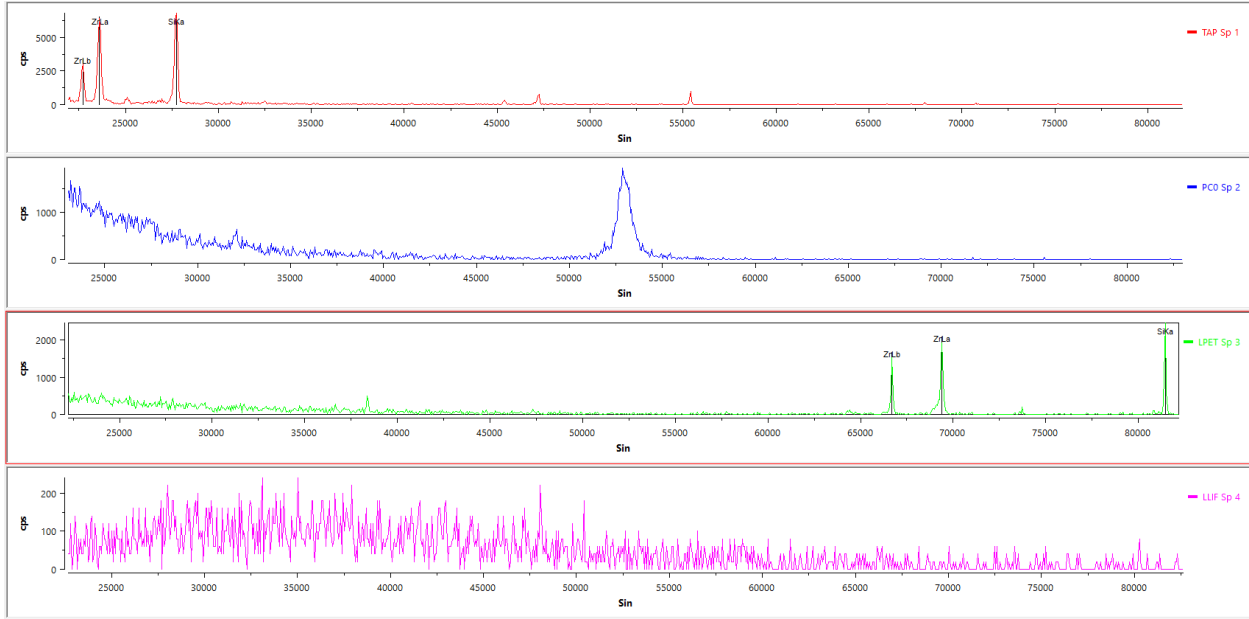
55615-01-015L-03z_1- Calciocatapleite



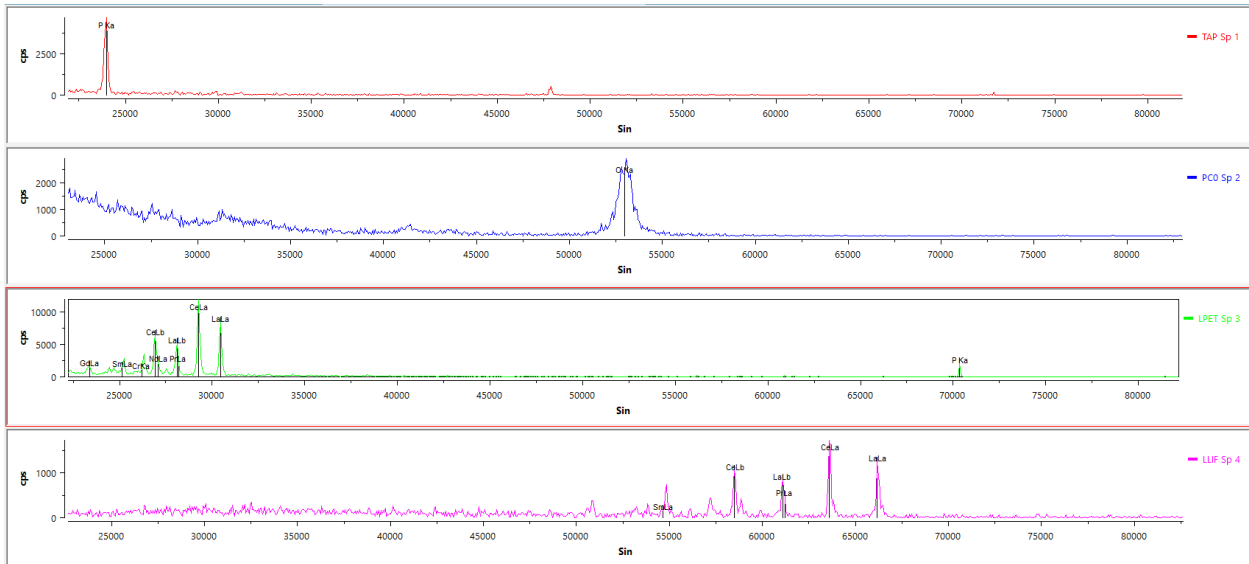
55615-01-015L-03z_2- Calciocatapleite



55615-01-015_2Test_5- Calciocatapleite

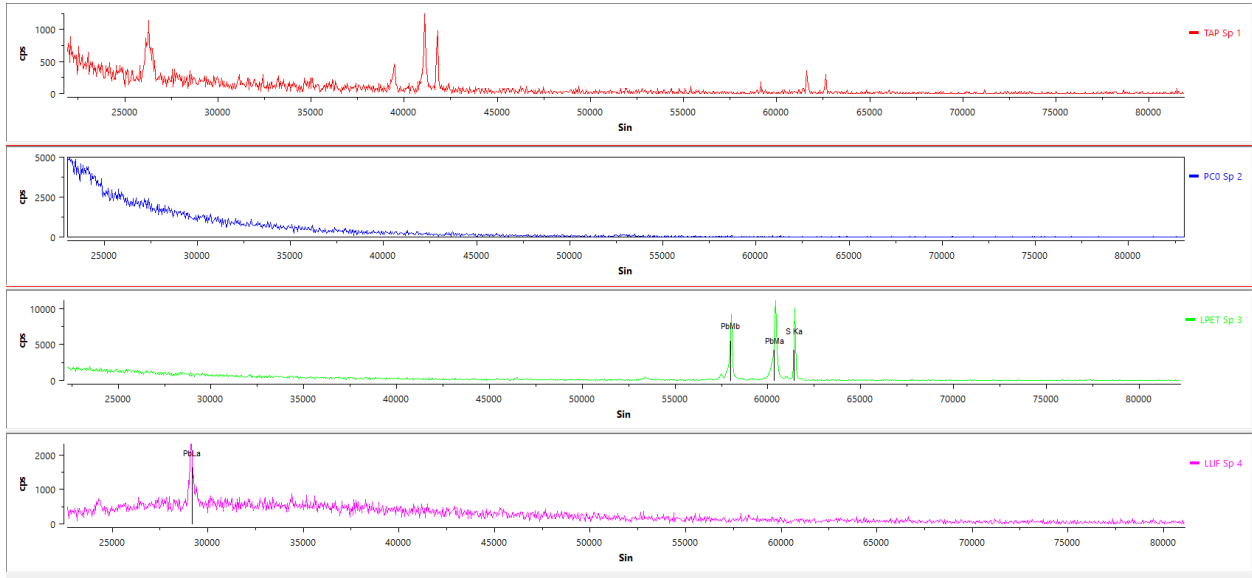


55615-01-015_2Test_10- Zircon

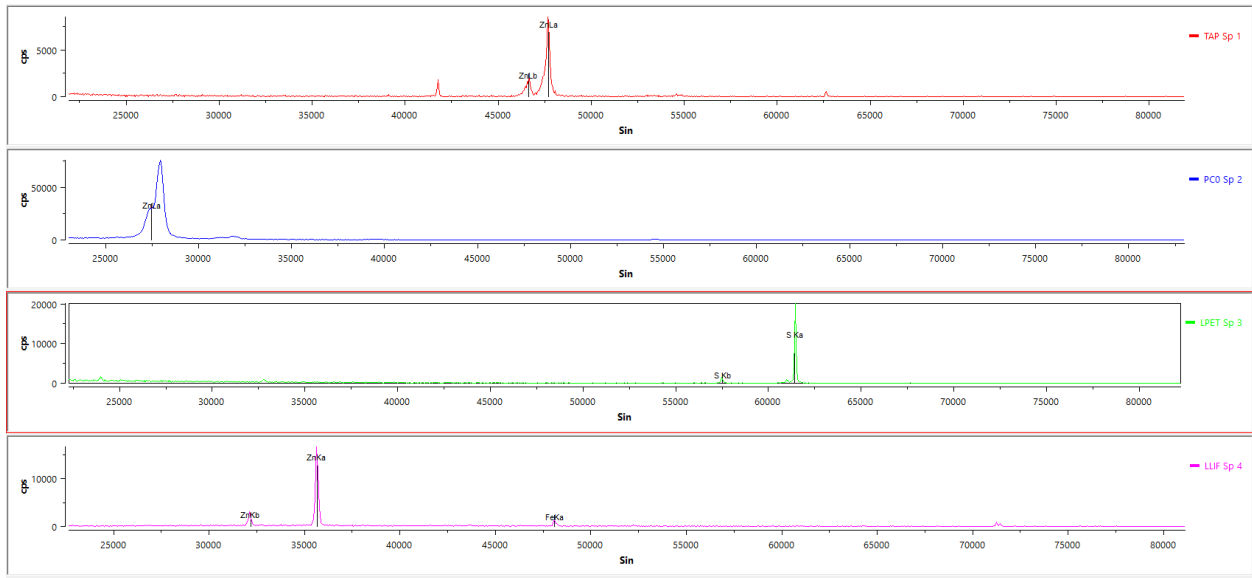


55615-01-015_2Test_13- Monazite

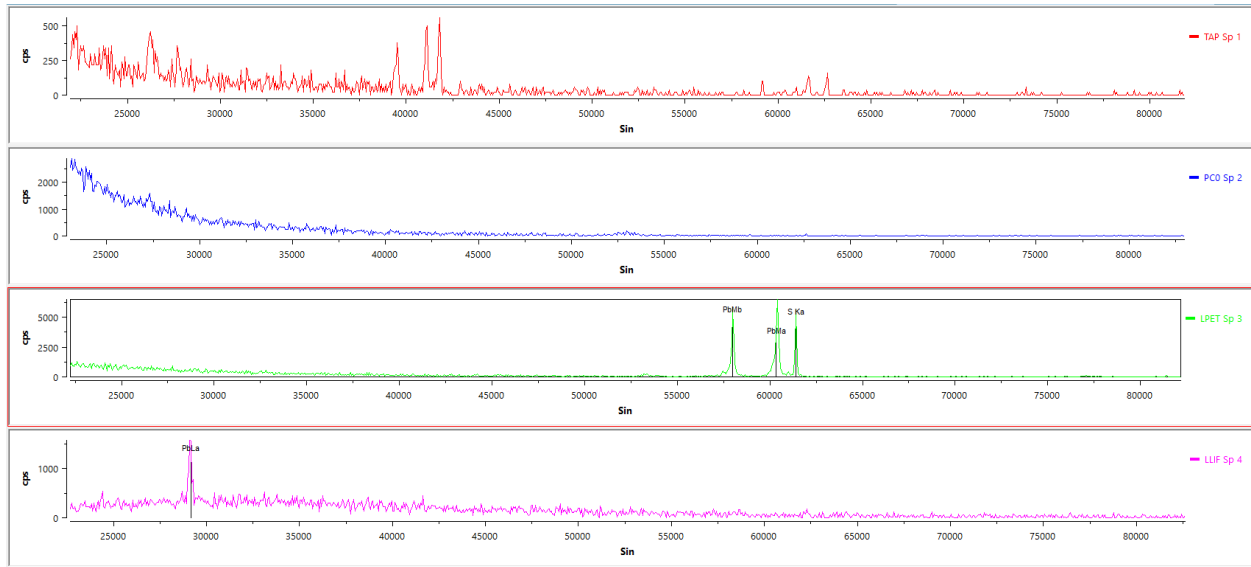
Sulfides



55615-01-015L-01_REE-3- Galena



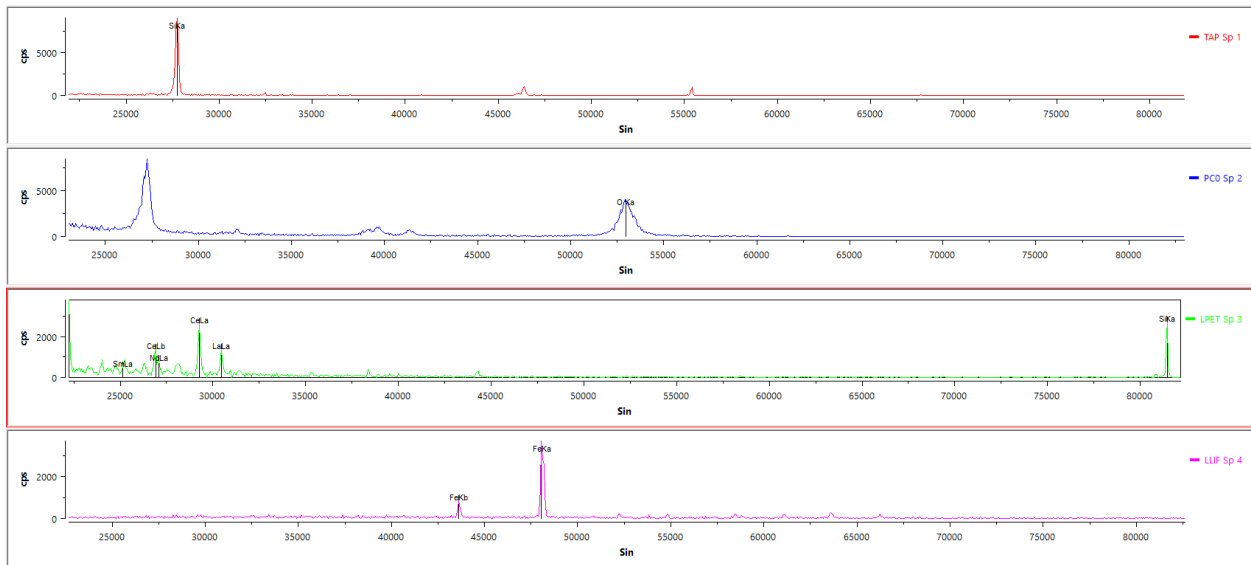
55615-01-015L-02_REE_3- Sphalerite



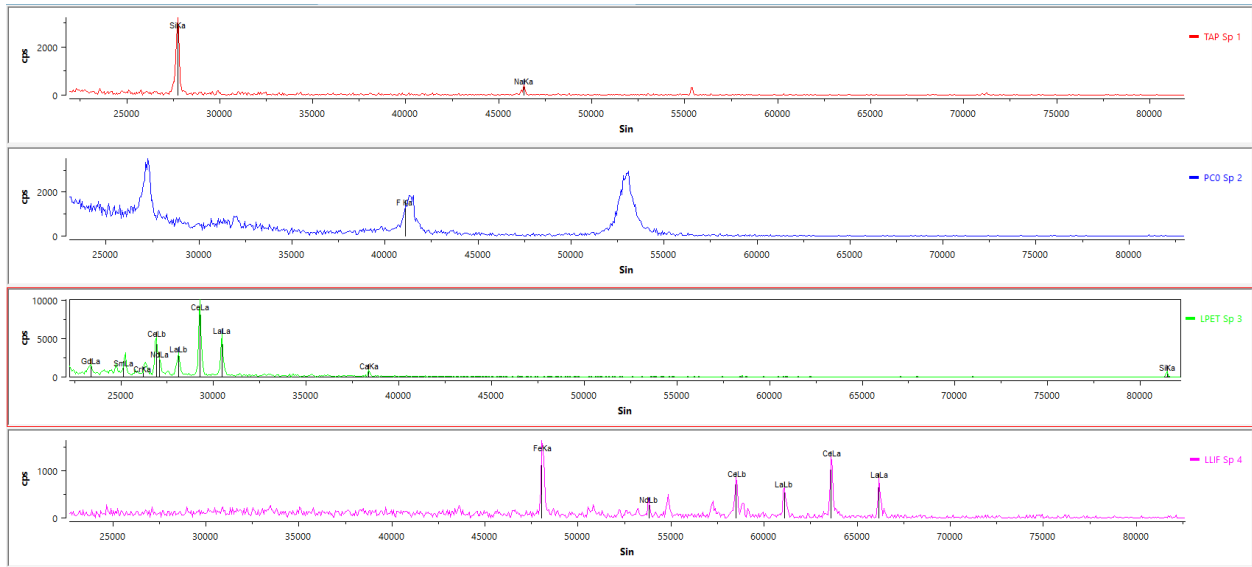
55615-01-015_3Test_5- Galena

55615-02-035- Wind Mountain

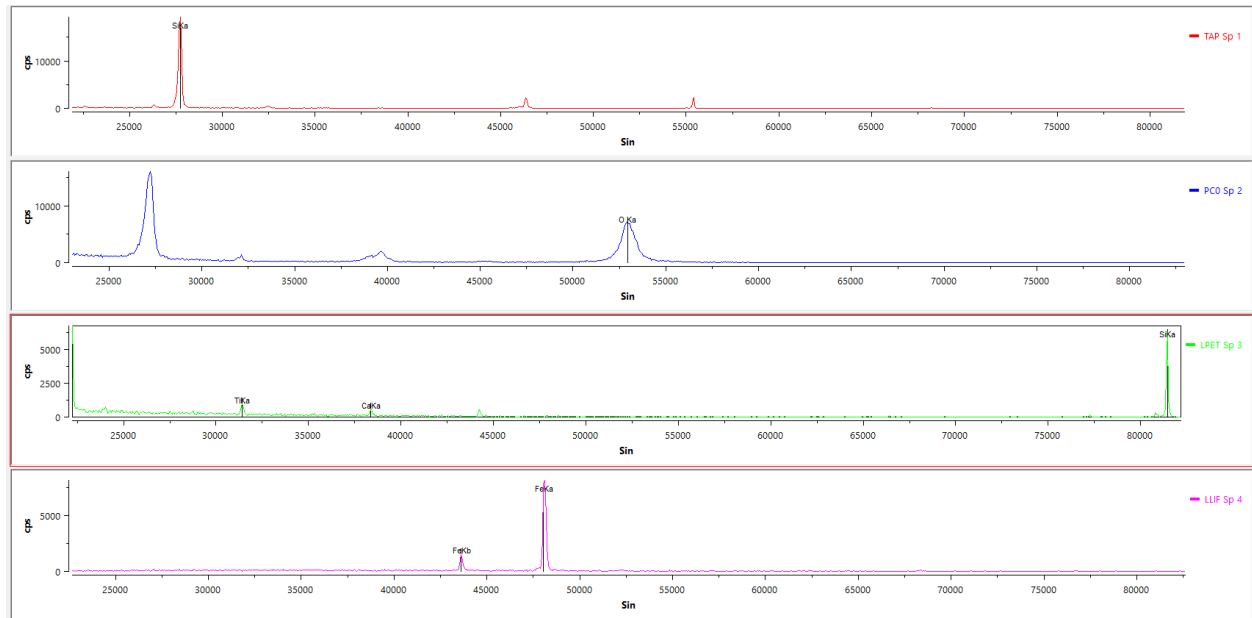
Pyroxenes



55615-02-035_1Test_1- Aegirine + Bastnäsite

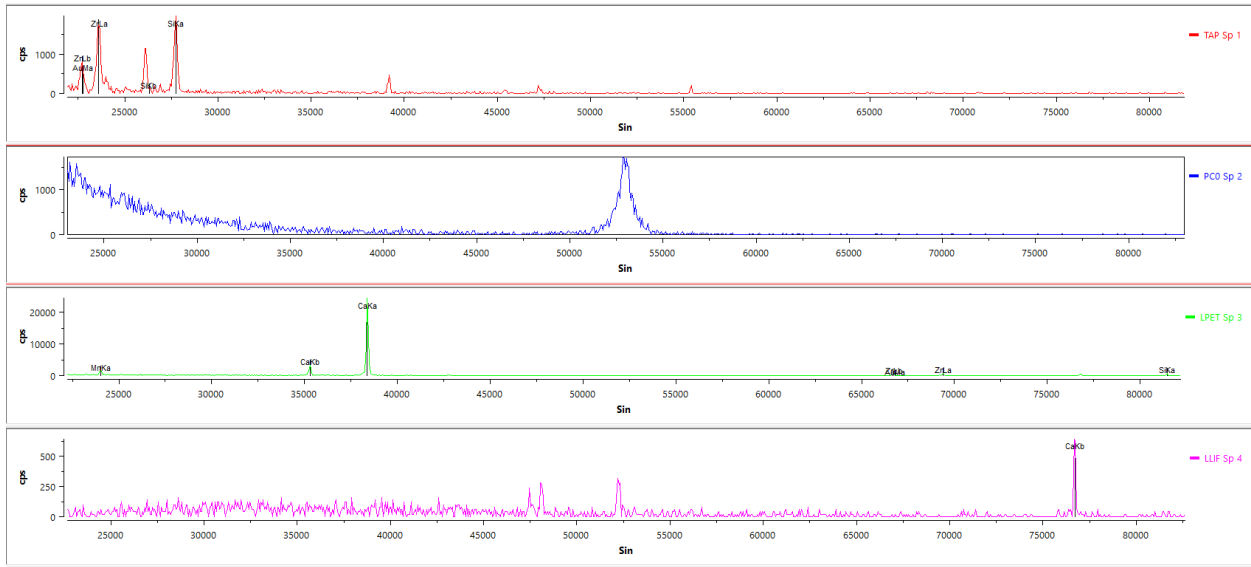


55615-02-035_1Test_2- Aegirine + Bastnäsite

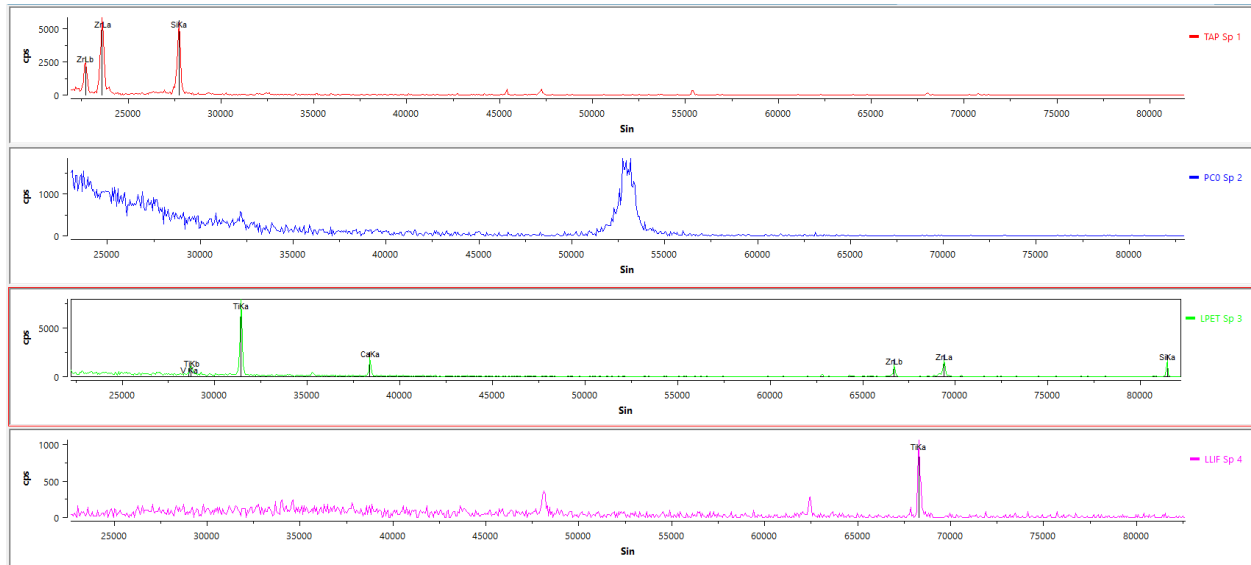


55615-2-35R-01-02_2- Aegirine

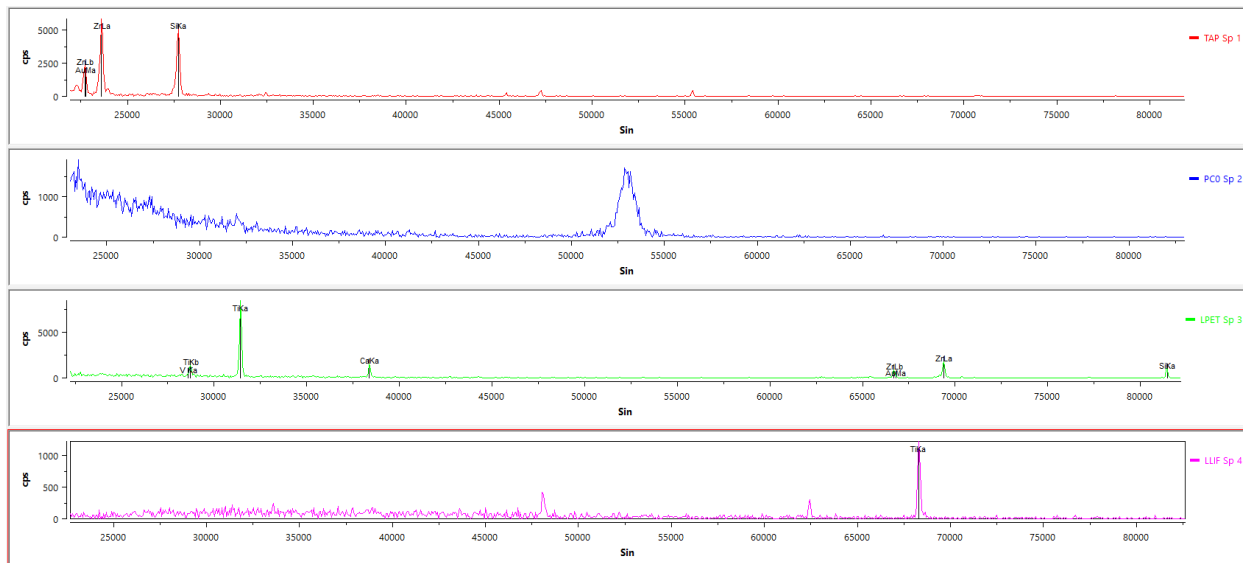
REE, Zr, and Nb Phases



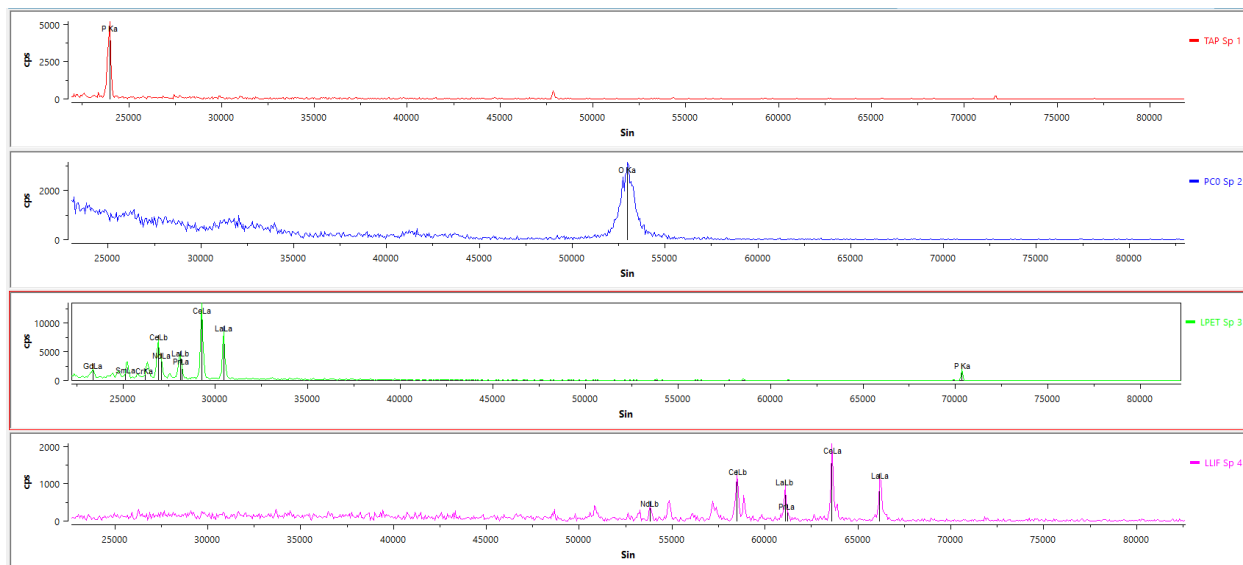
55615-02-035_1Test_4- Calciocatapleiite



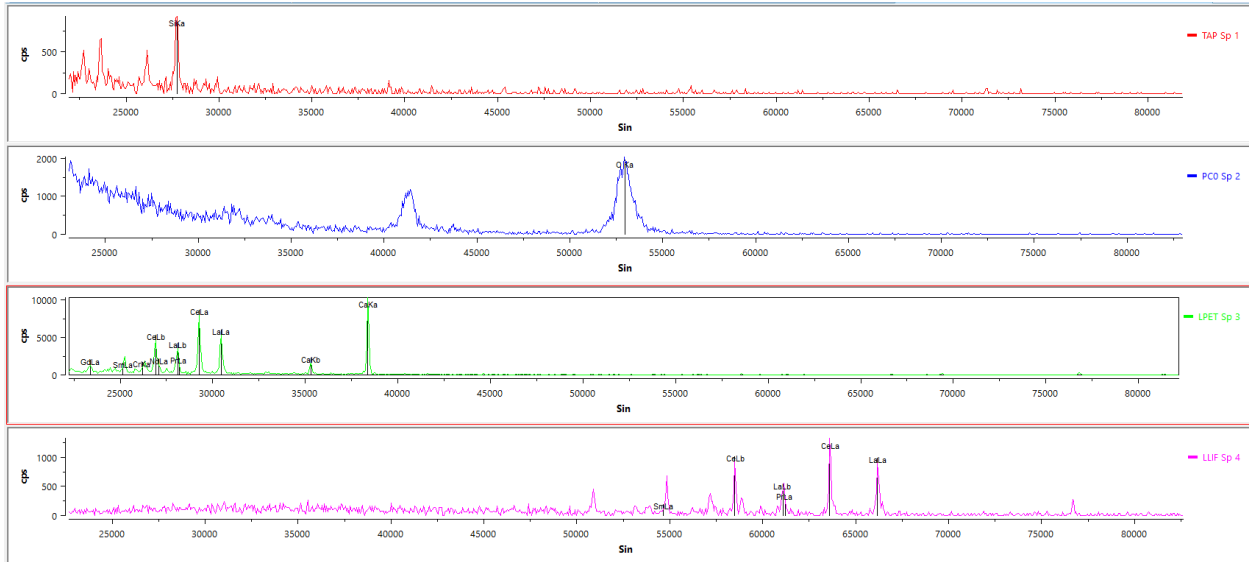
55615-02-035_1Test_6- Calciocatapleiite Mixed Phase



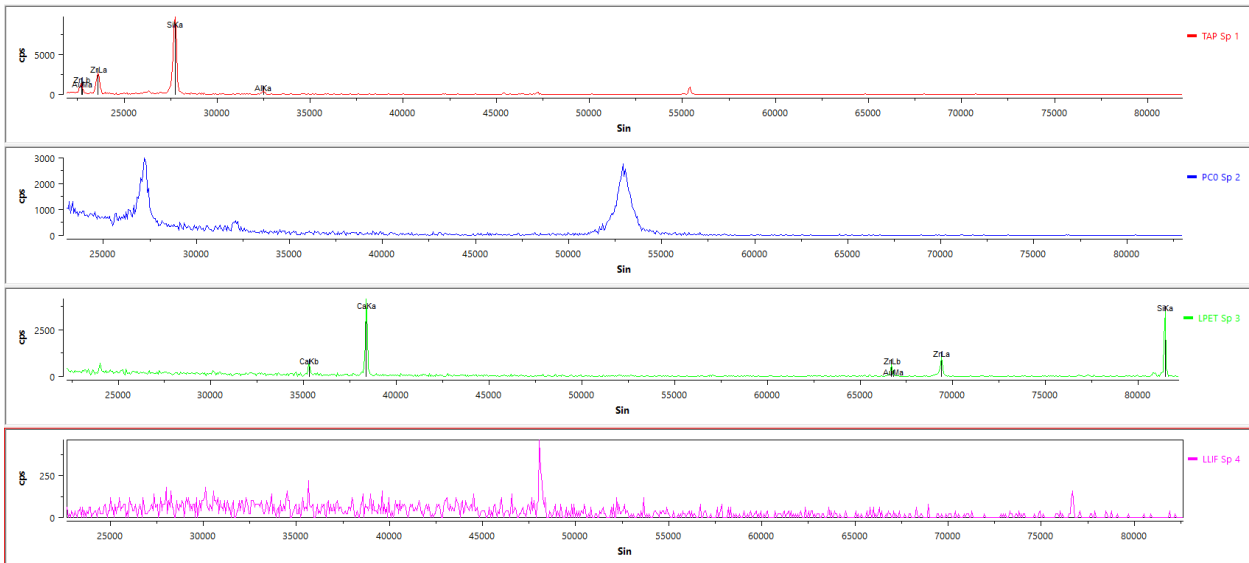
55615-02-035_1Test_7- Calciocatapleite Mixed Phase



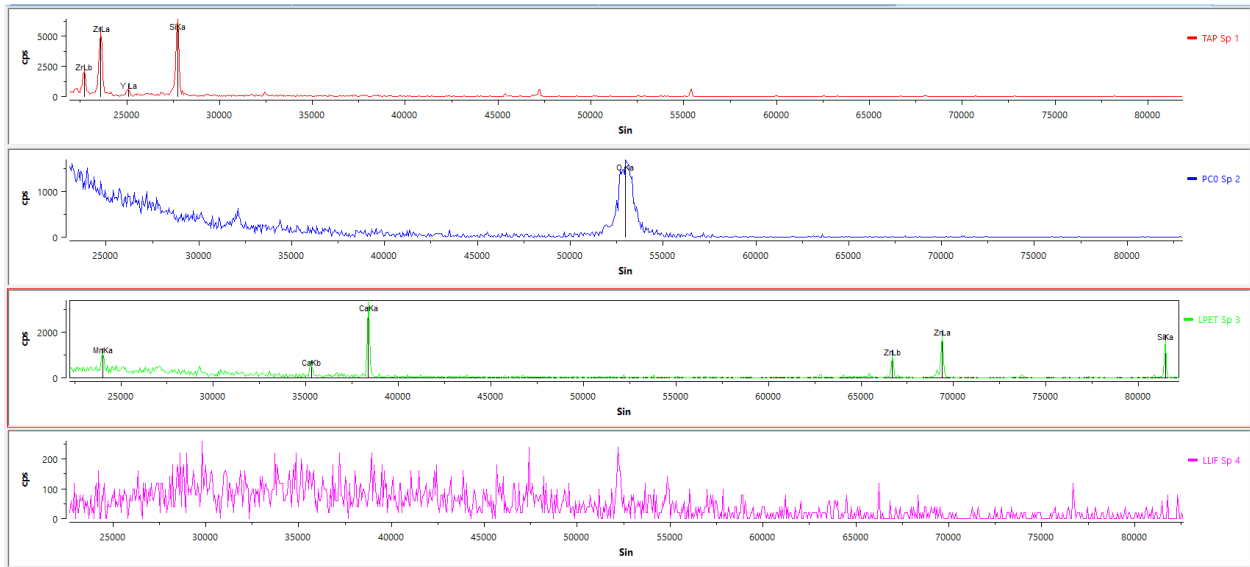
55615-02-035_3Test_1- Monazite



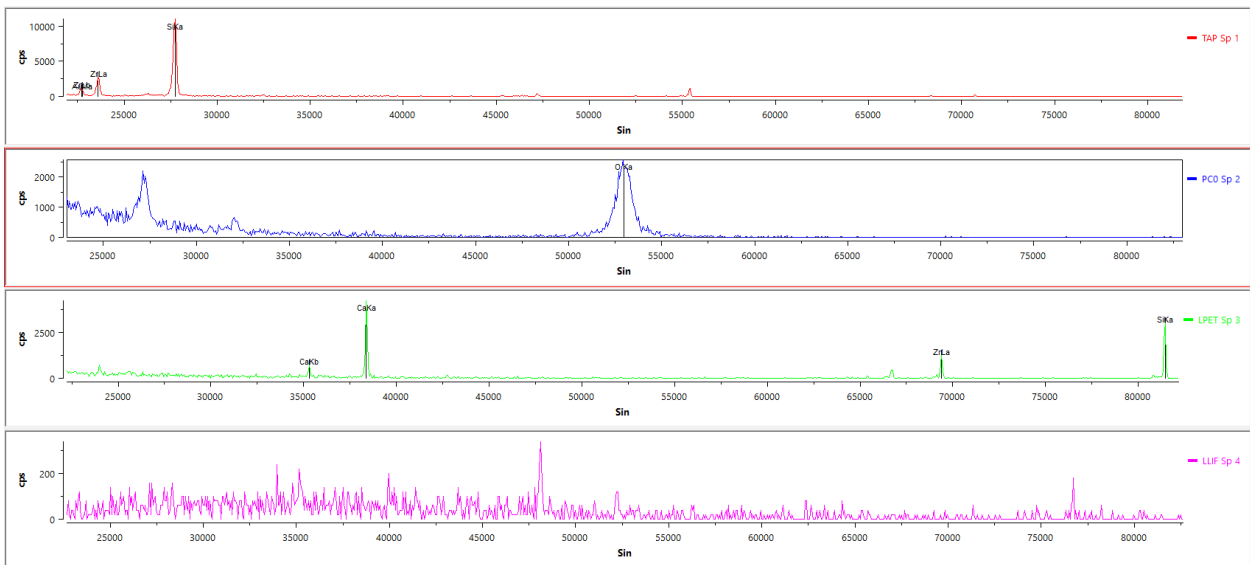
55615-02-035_3Test_3- Bastnäs site Mixed Phase



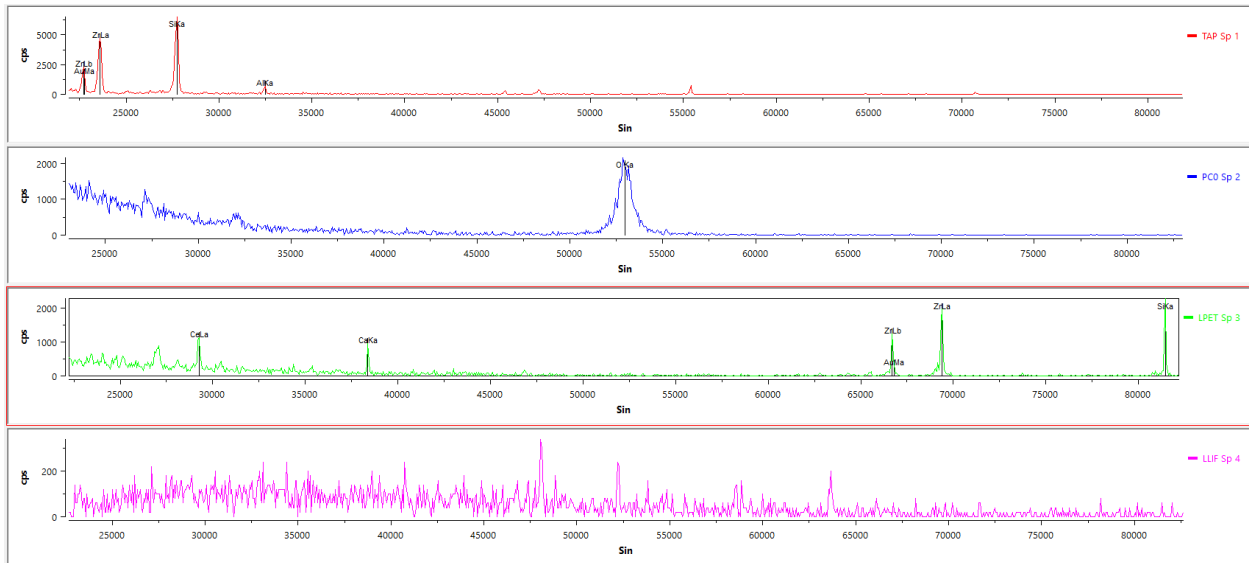
55615-02-035_3Test_4- Calciocatapleite



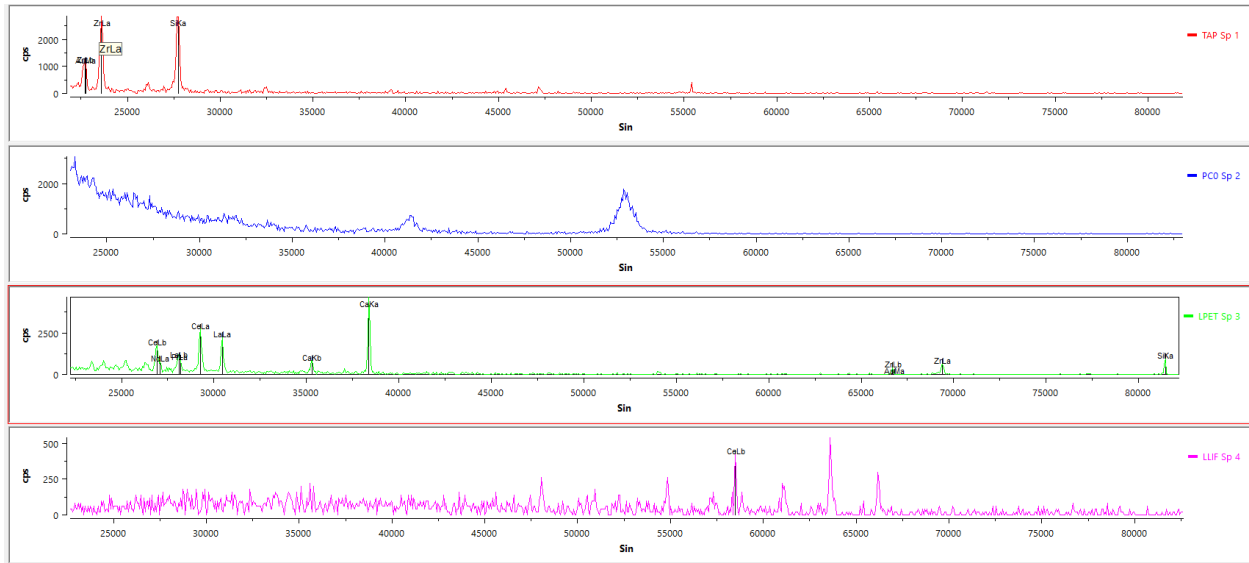
55615-02-035_3Test_5- Calciocatapleiite



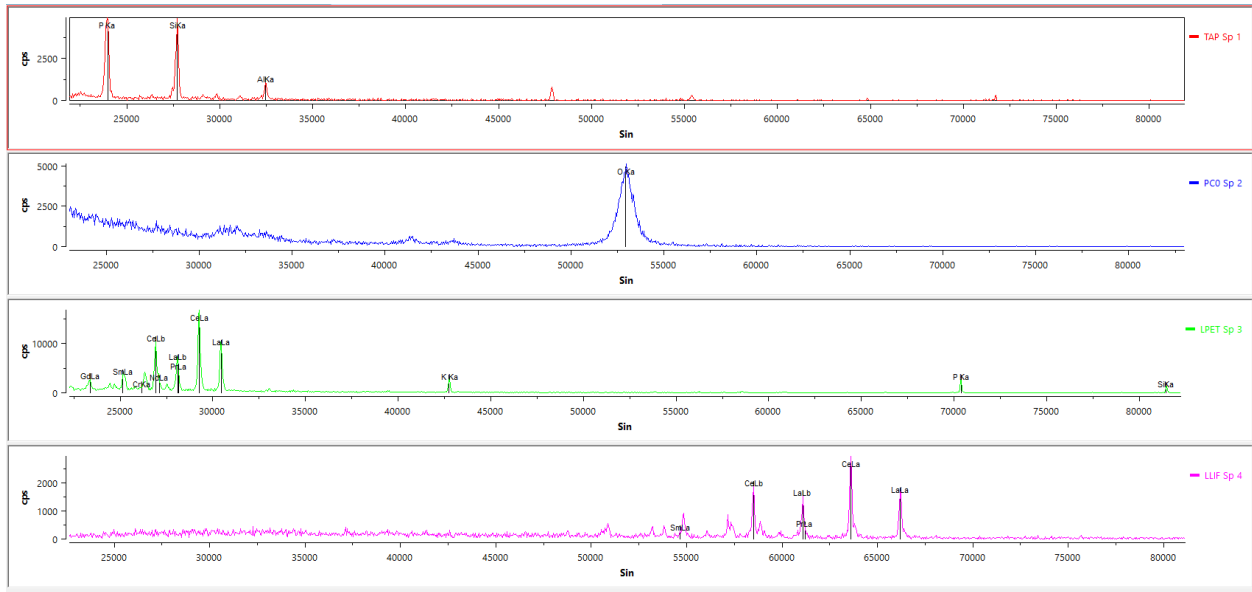
55615-02-035_3Test_6- Calciocatapleiite



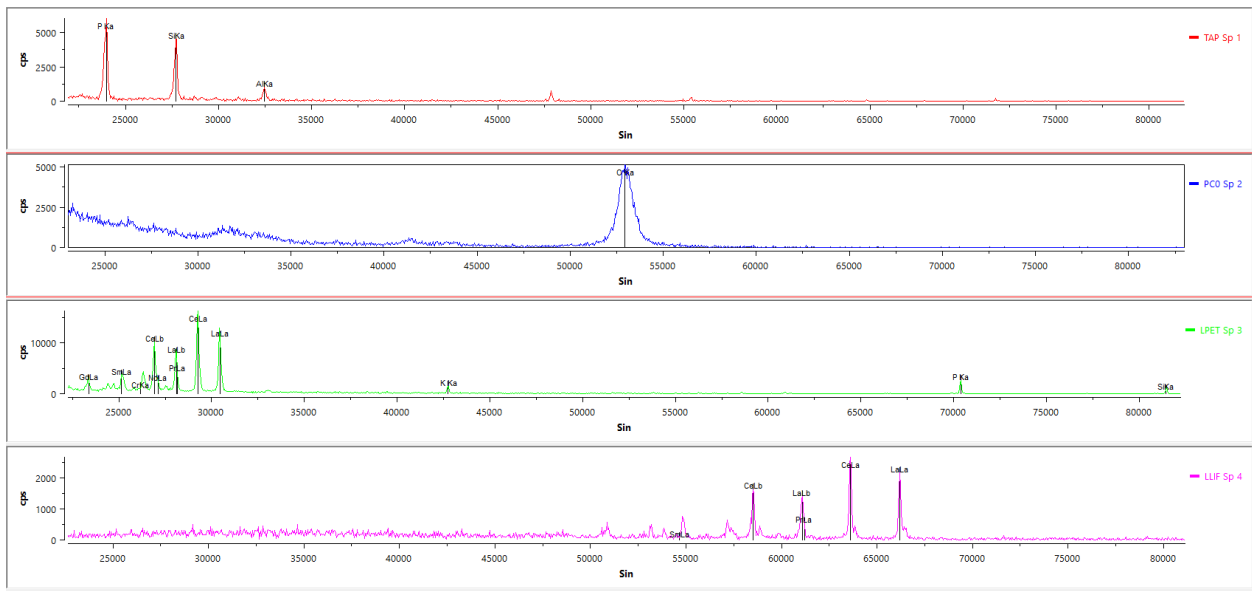
55615-02-035_3Test_7- Calciocatapleiite



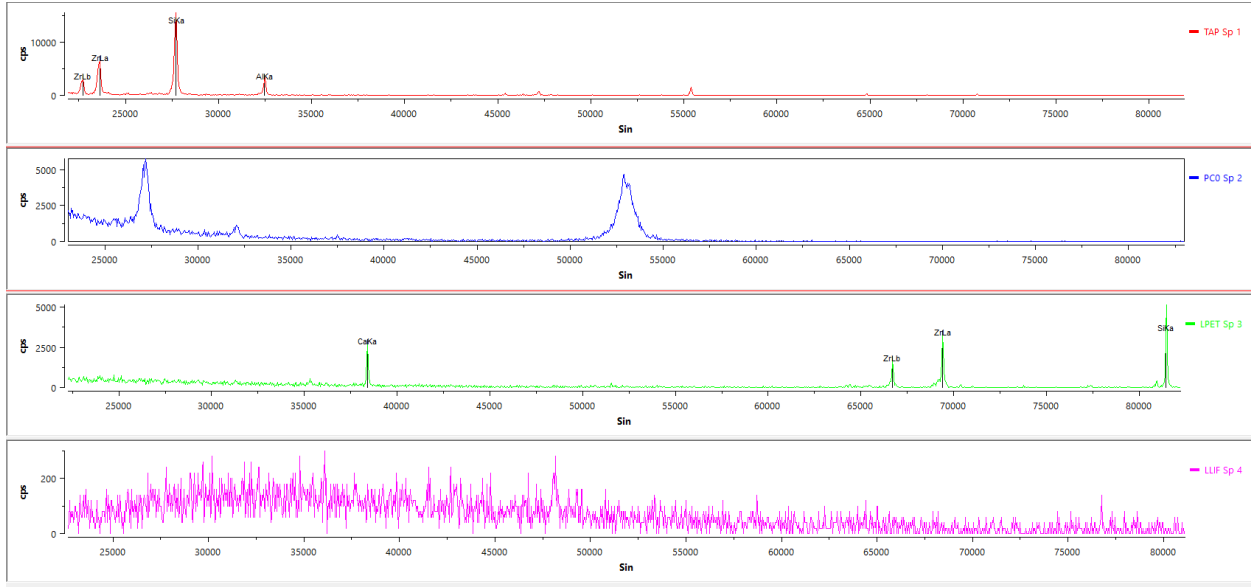
55615-02-035_3Test_8- Calciocatapleiite + Bastnäsite



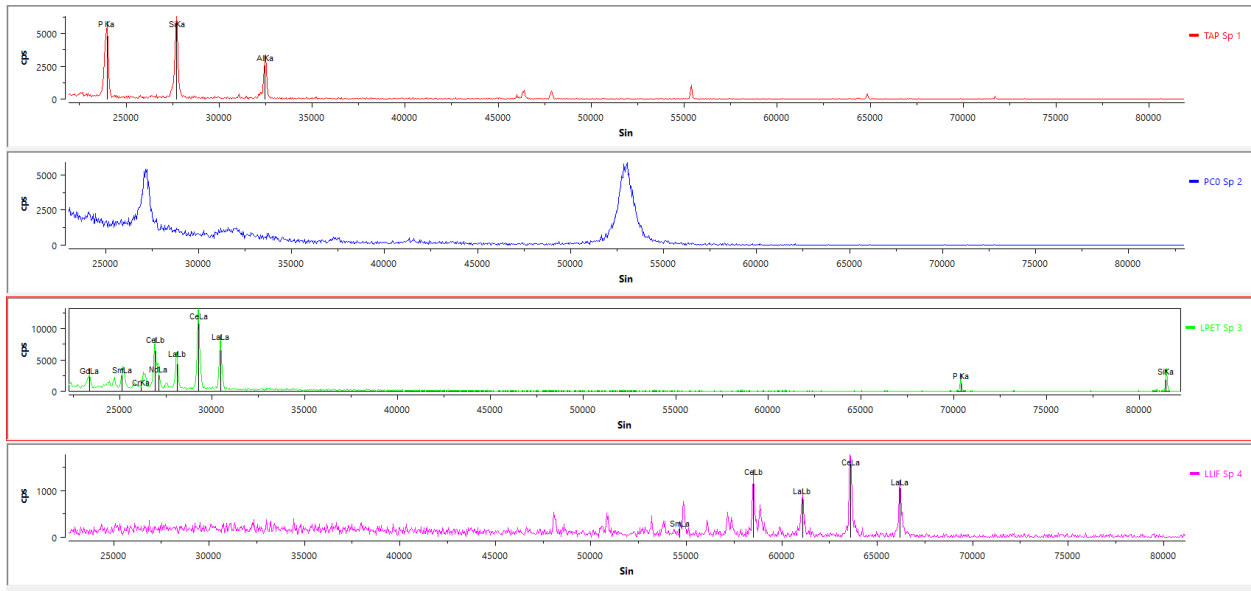
55615-02-035L-01_REE_2- Monazite Mixed Phase



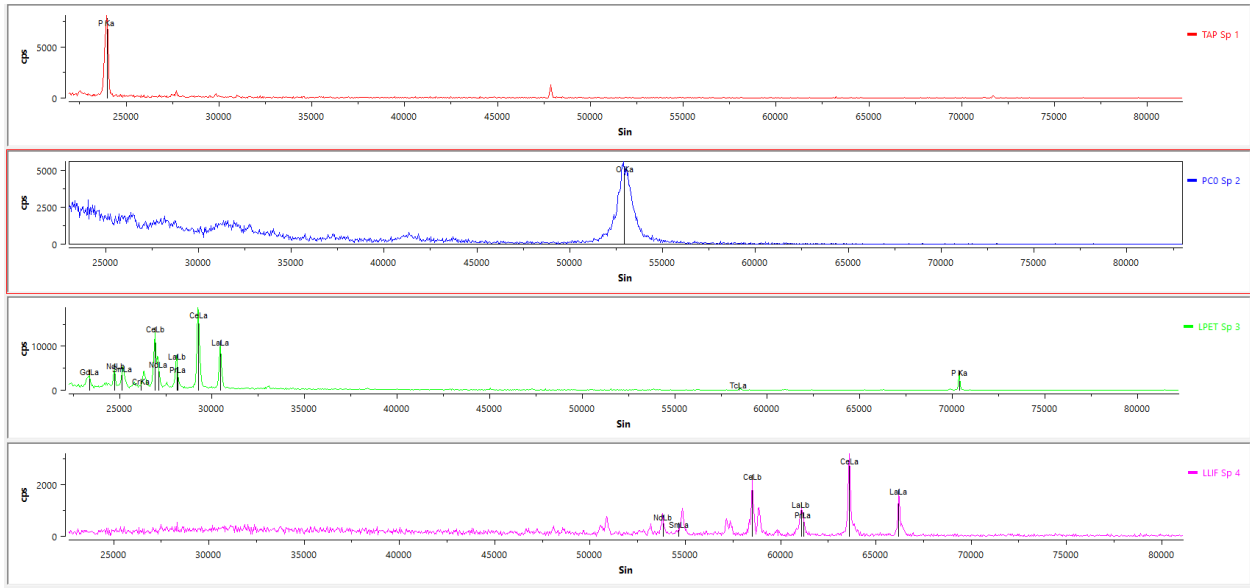
55615-02-035L-01_REE_3- Monazite Mixed Phase



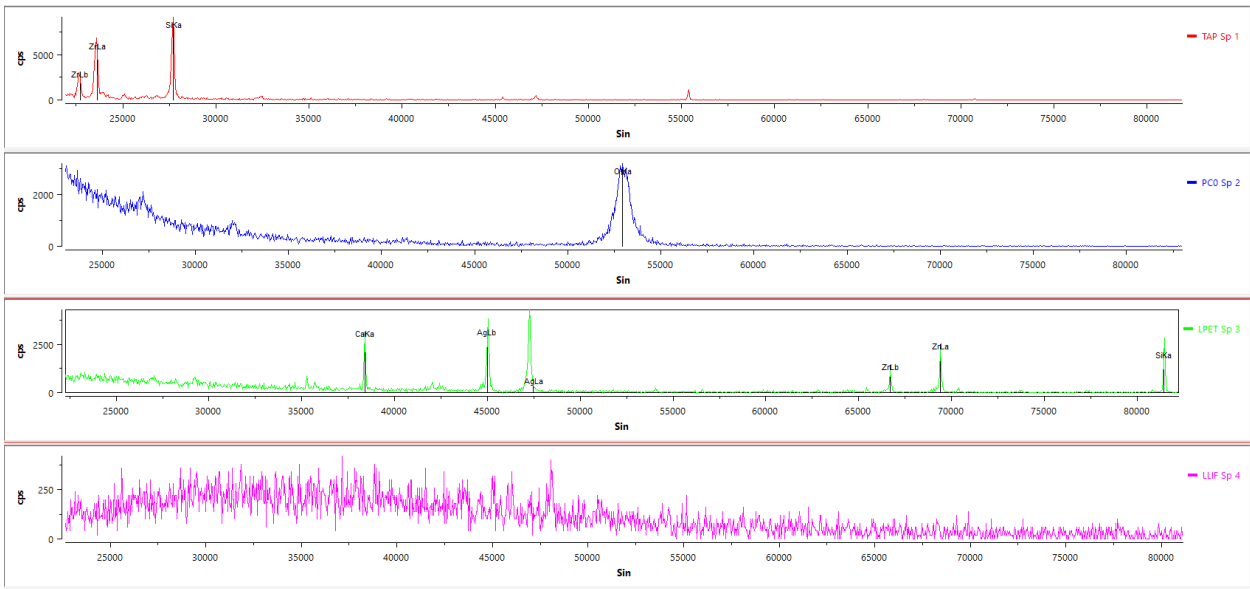
55615-02-035L-01_REE_4- Calciocatapleite



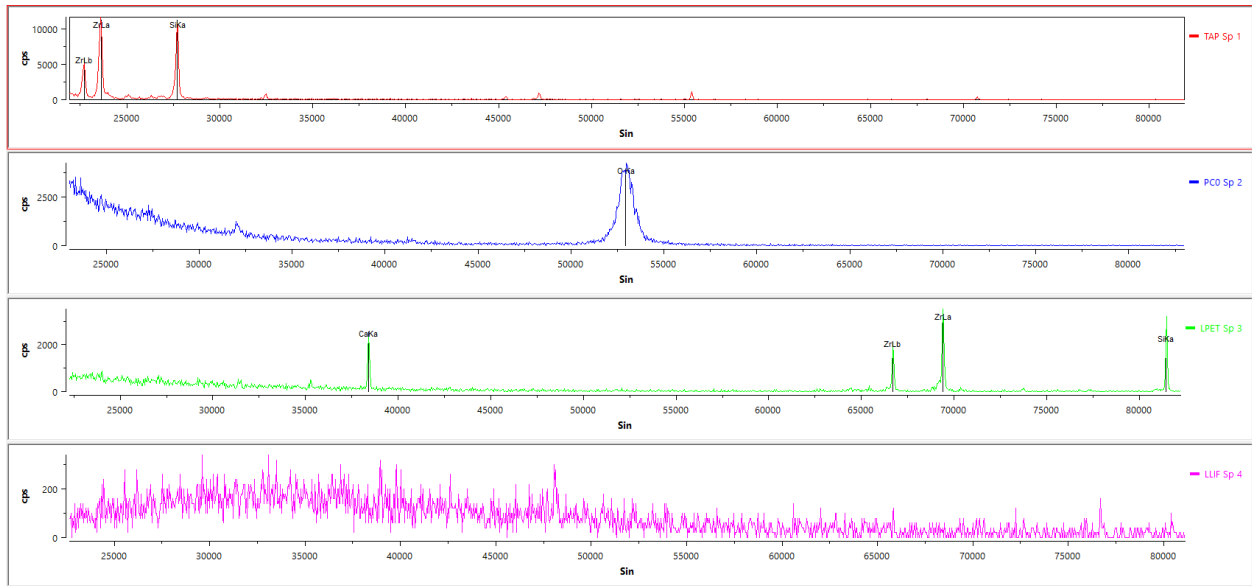
55615-02-035L-01_REE_5- Monazite + Albite



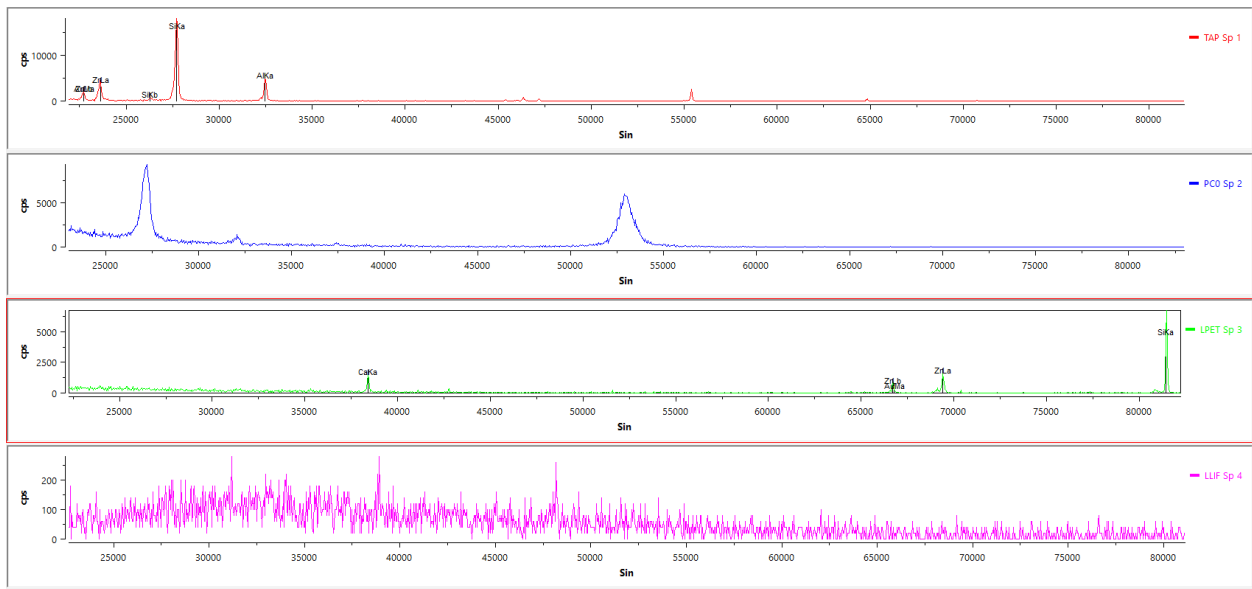
55615-02-035L-01_REE_6- Monazite



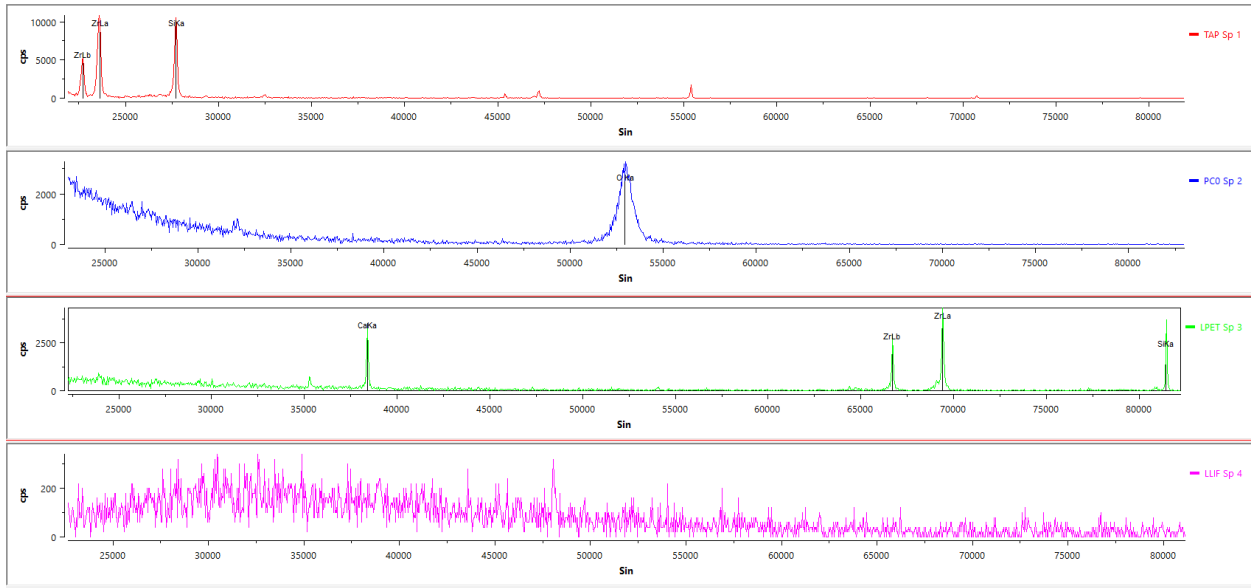
55615-02-035R-01_REE_1- Calcioctapleite



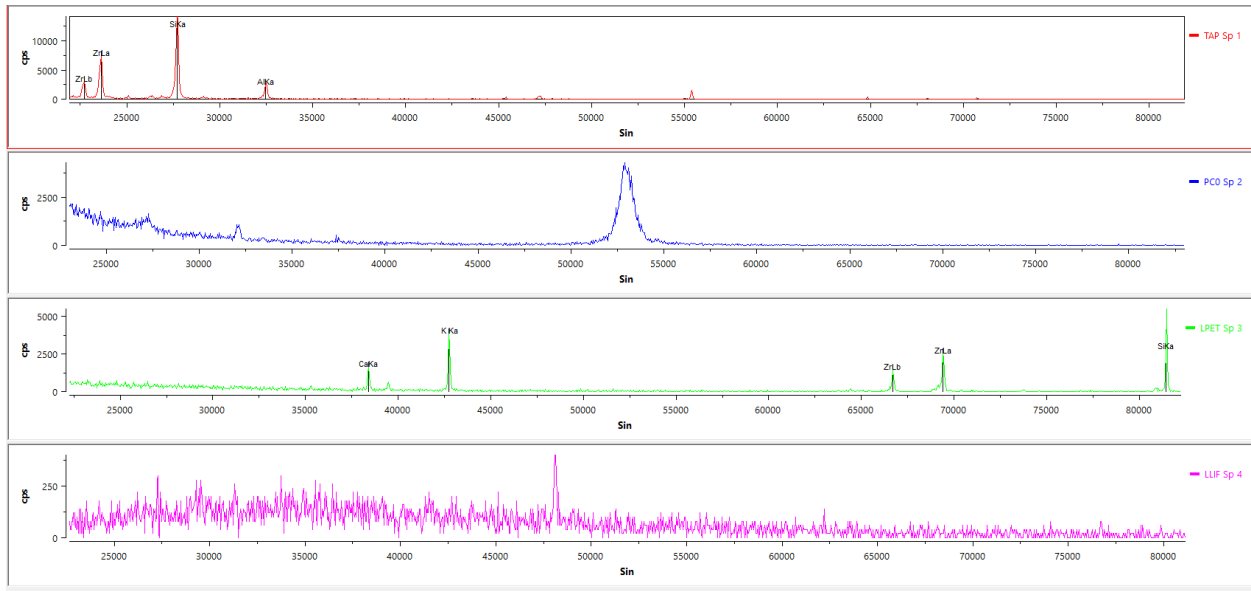
55615-02-035R-01_REE_2- Calciocatapleiite



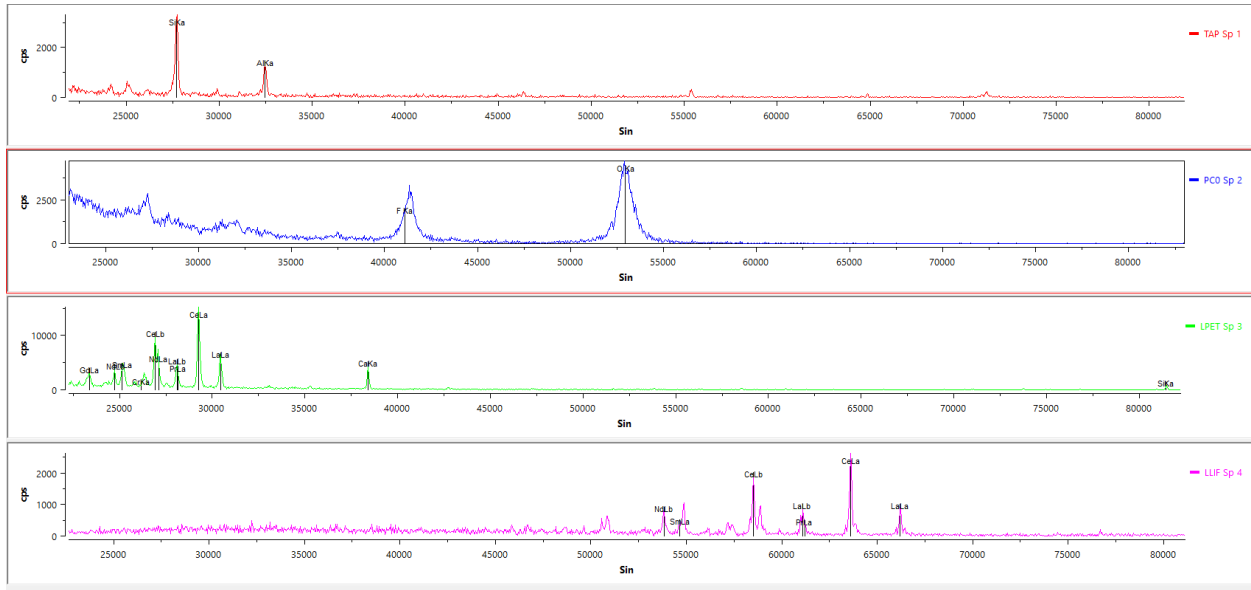
55615-02-035R-01_REE_3- Calciocatapleiite + Albite



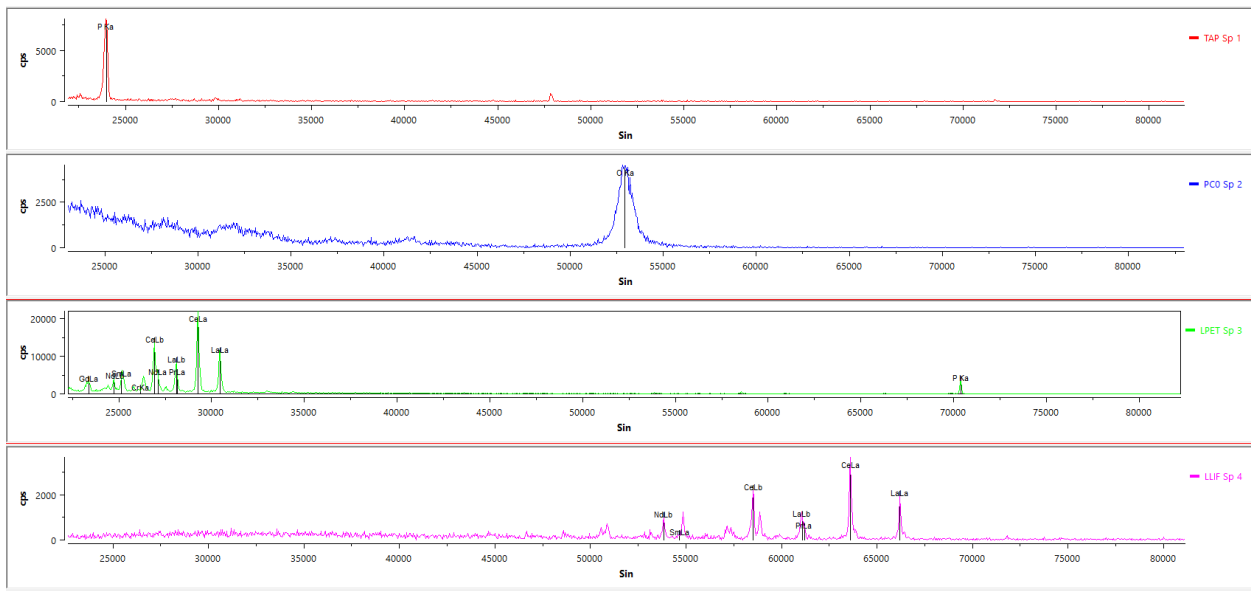
55615-02-035R-01_REE_4- Calciocatapleite



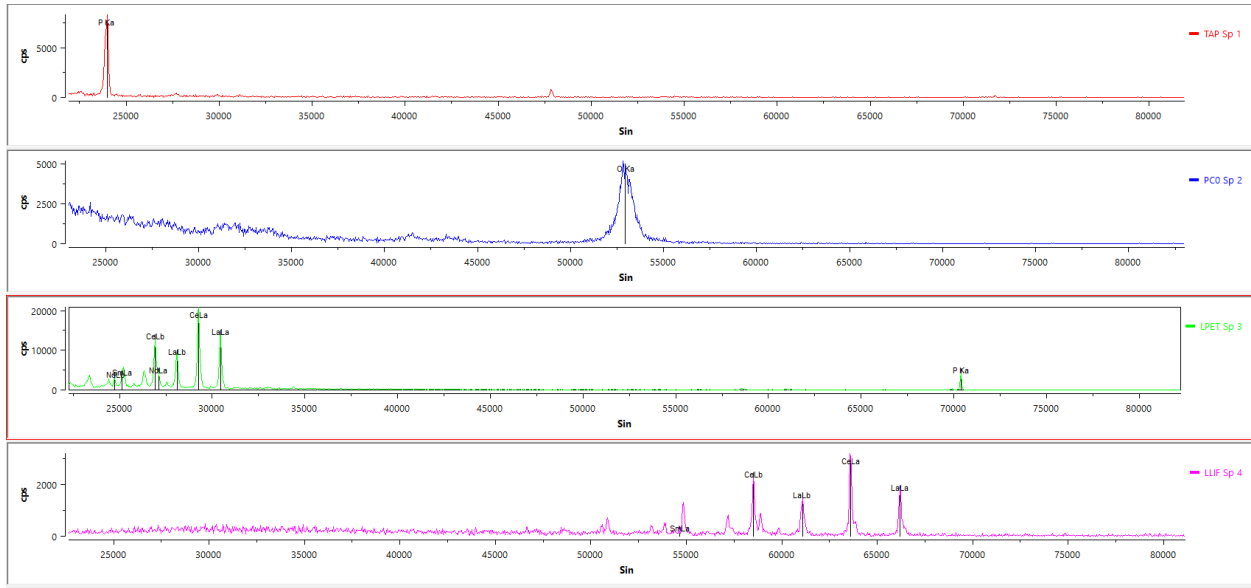
55615-02-035R-02_REE_1- Aqualite



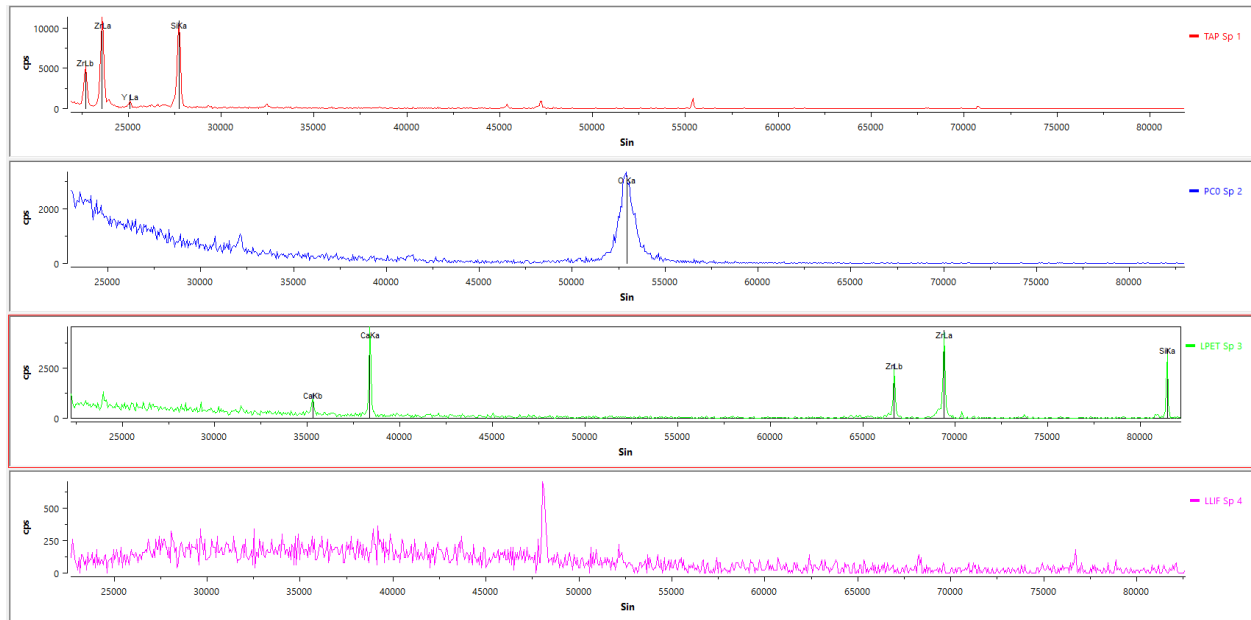
55615-02-035R-02_REE_2- Bastnäs site Mixed Phase



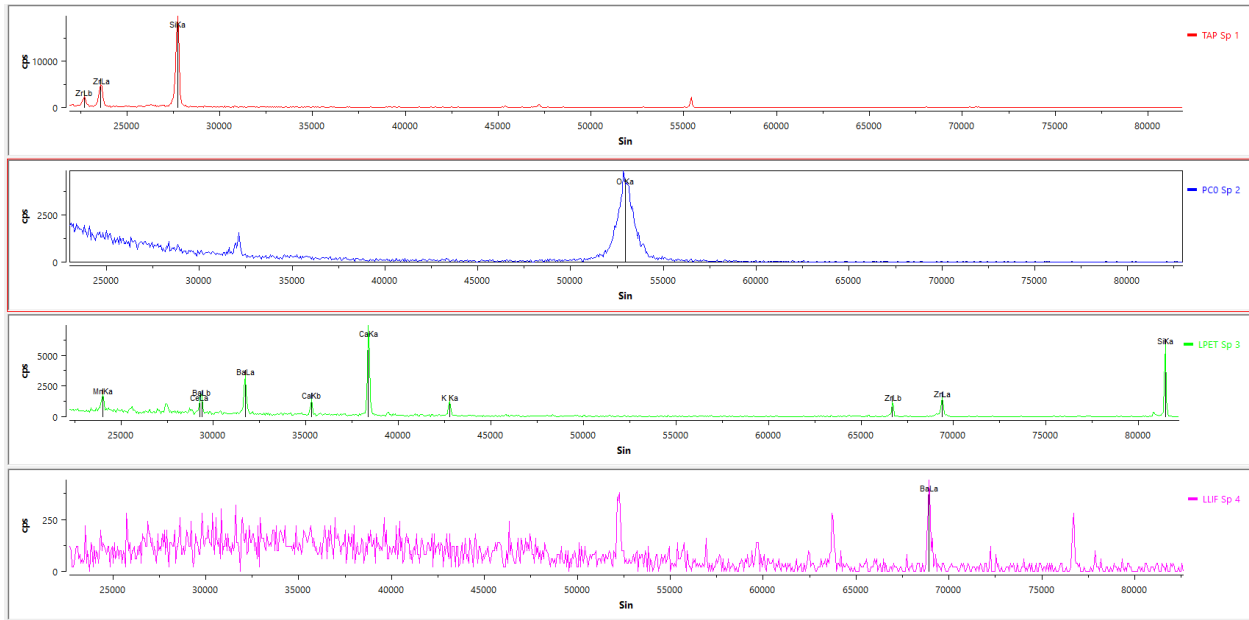
55615-02-035R-02_REE_3- Monazite



55615-02-035R-02_REE_4- Monazite

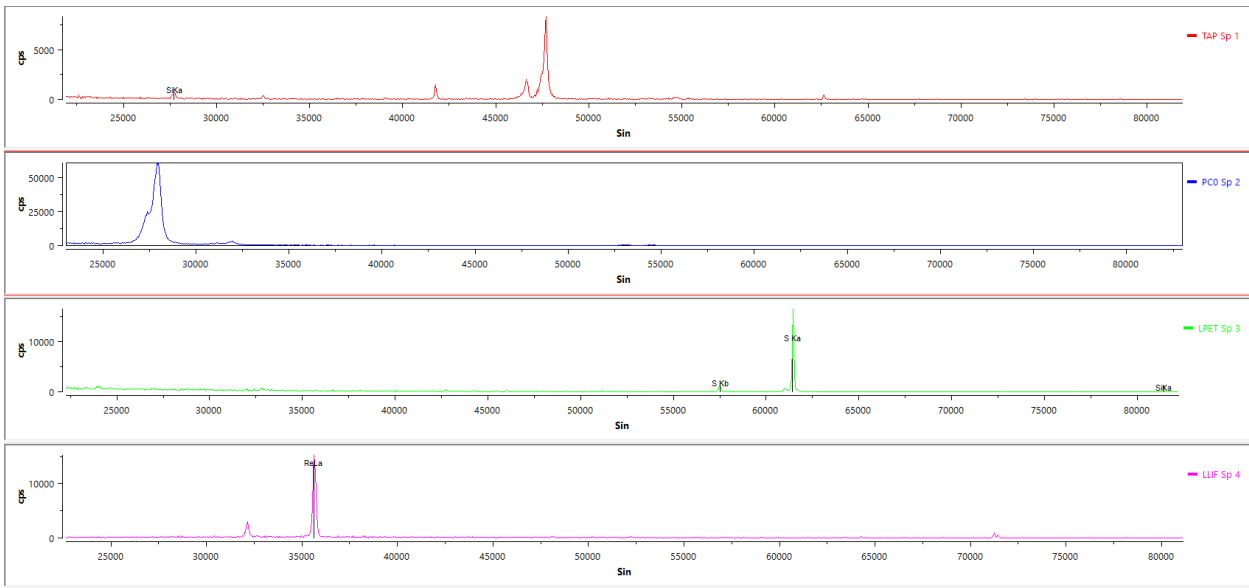


55615-02-035R-z_1- Calciocatapleite



55615-02-035R-z_2- Aqualite

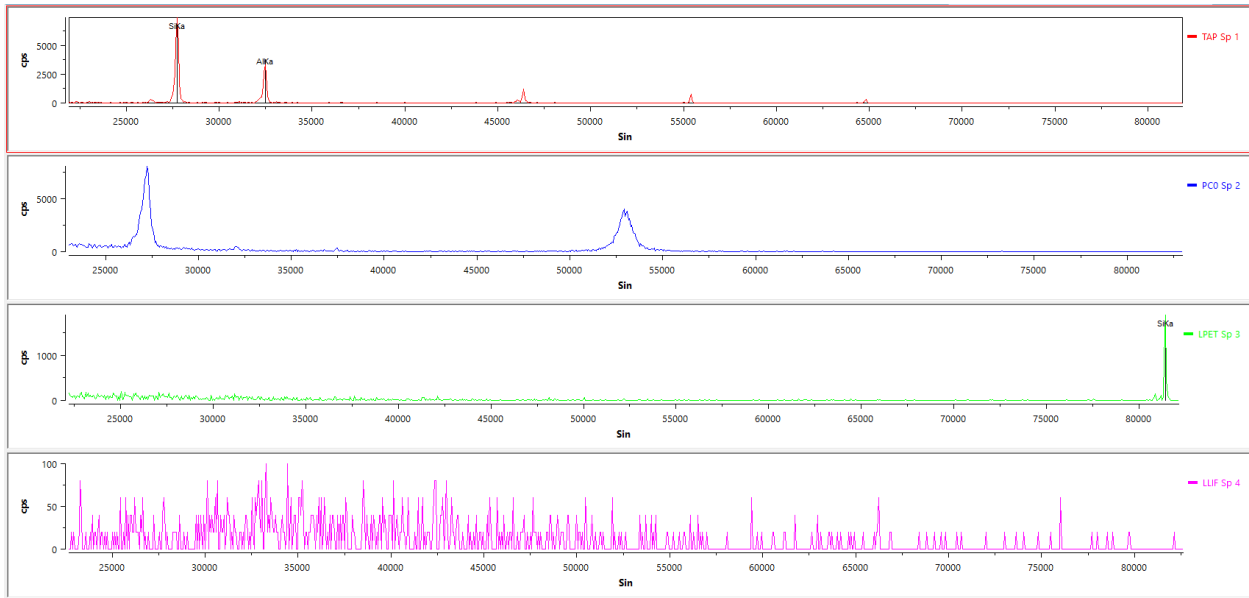
Sulfides



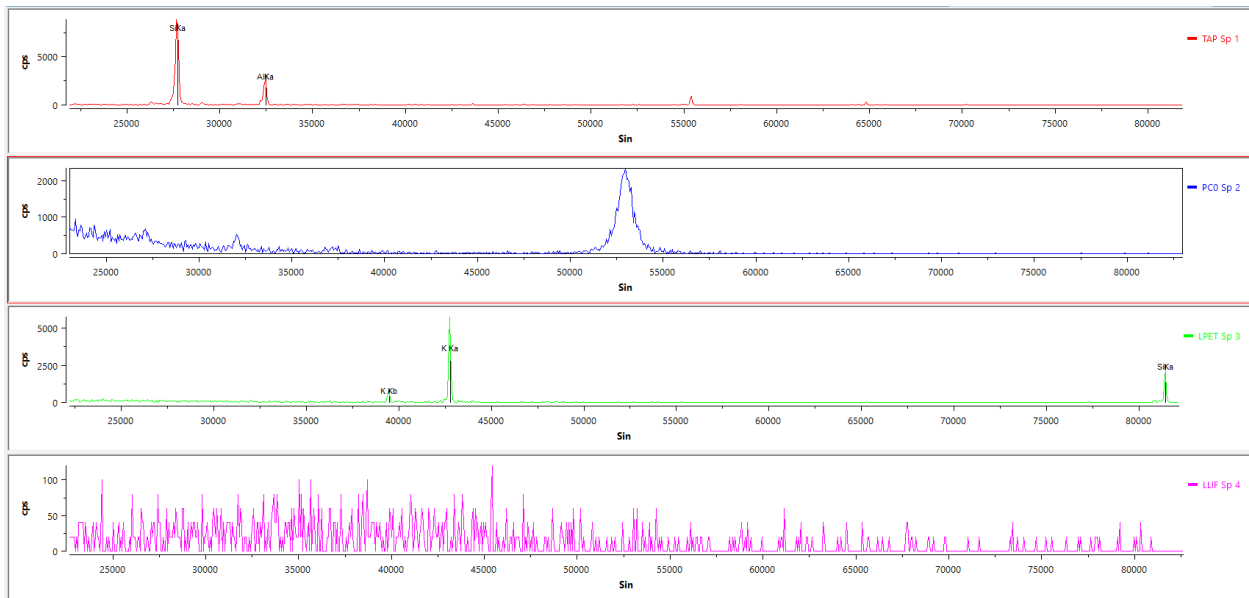
55615-02-035L-01_REE_1- Rhenite + Sphalerite

WMEB6- Wind Mountain

Feldspars and Feldspathoids

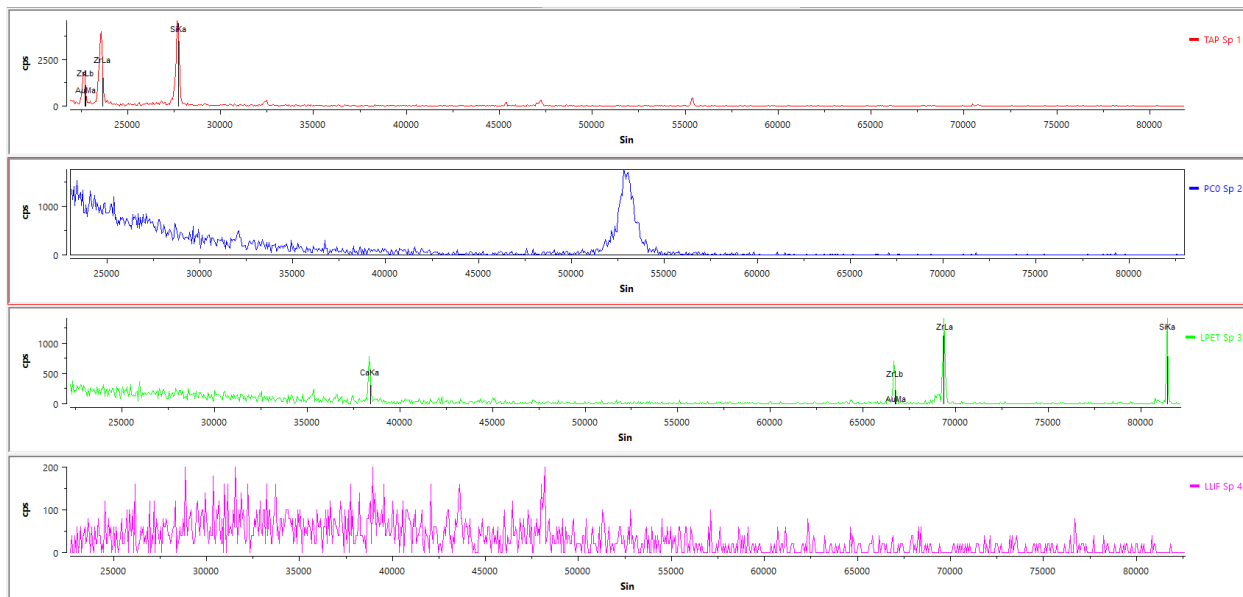


WMEB6_21- Analcime

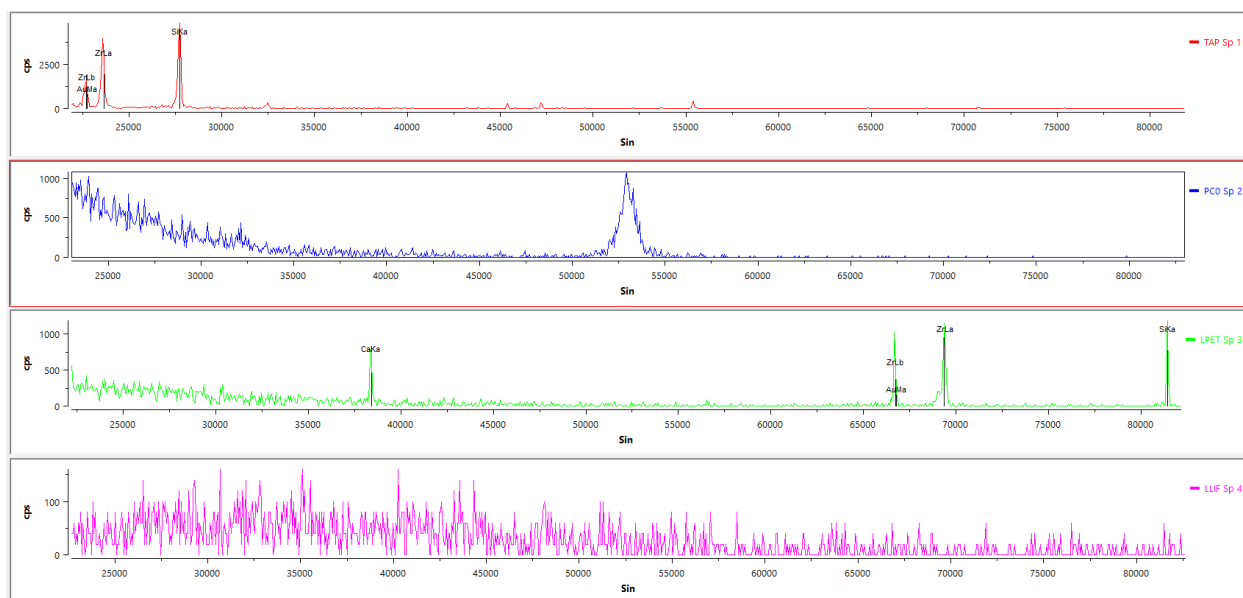


WMEB6- Potassium Feldspar

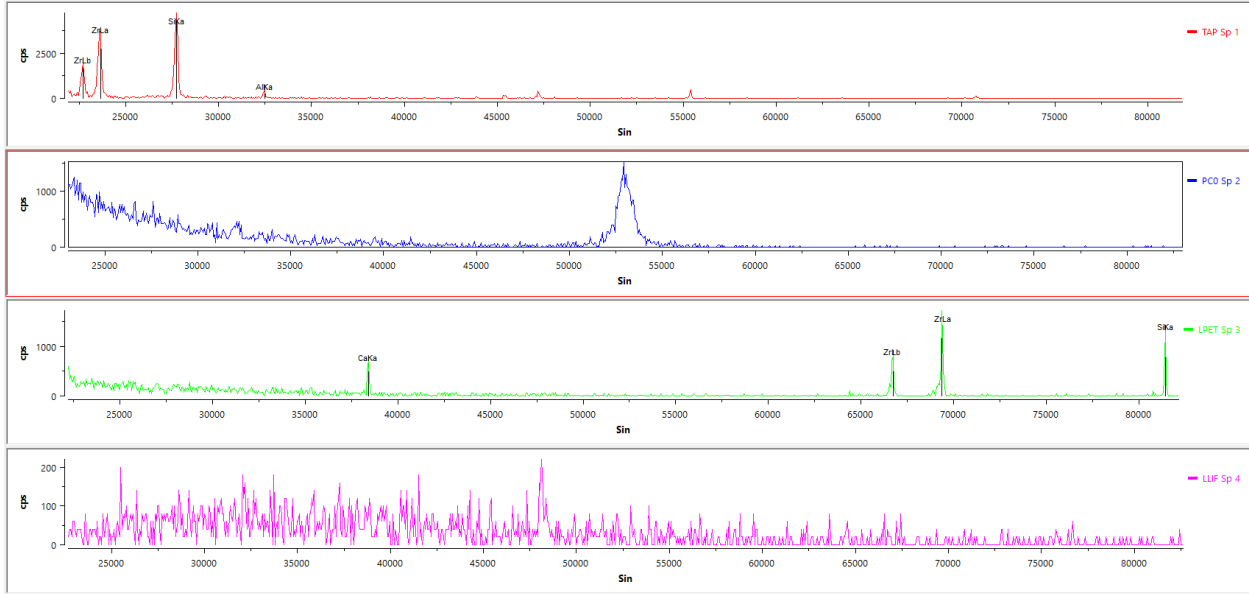
REE, Zr, and Nb Phases



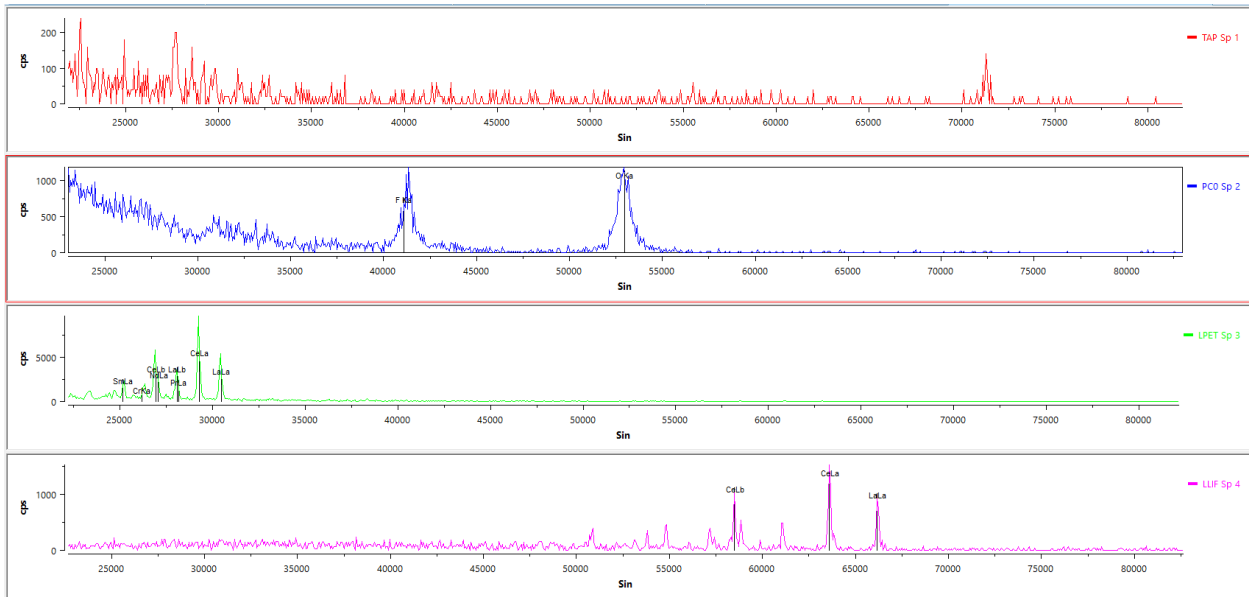
WMEB6_2- Calciocatapleite



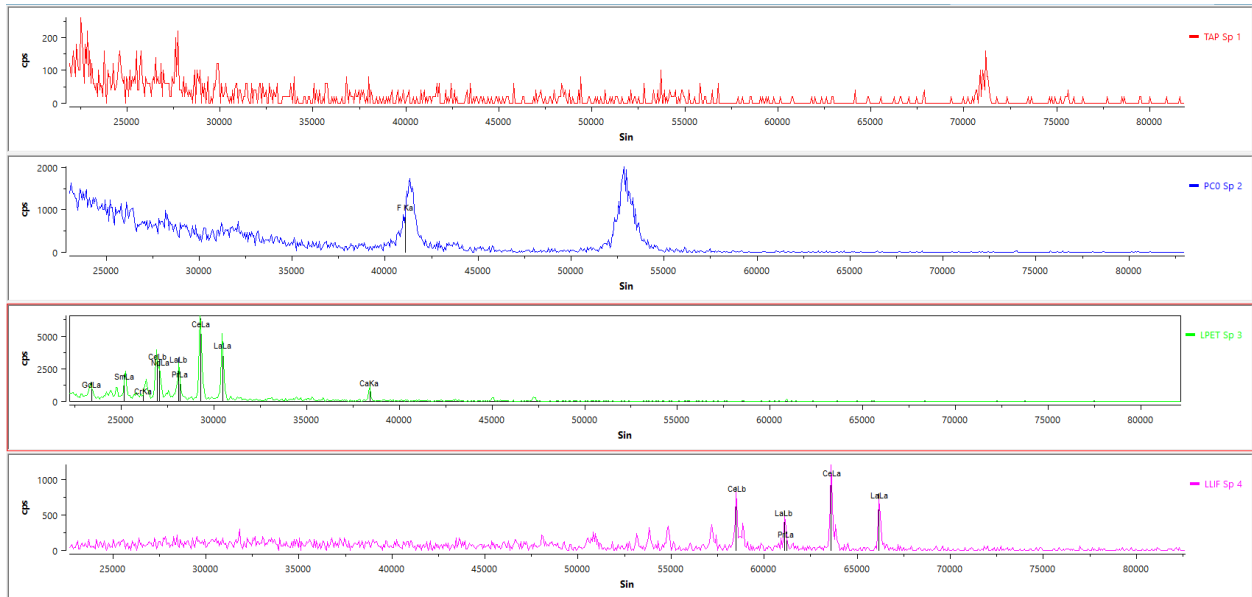
WMEB6_3- Calciocatapleite



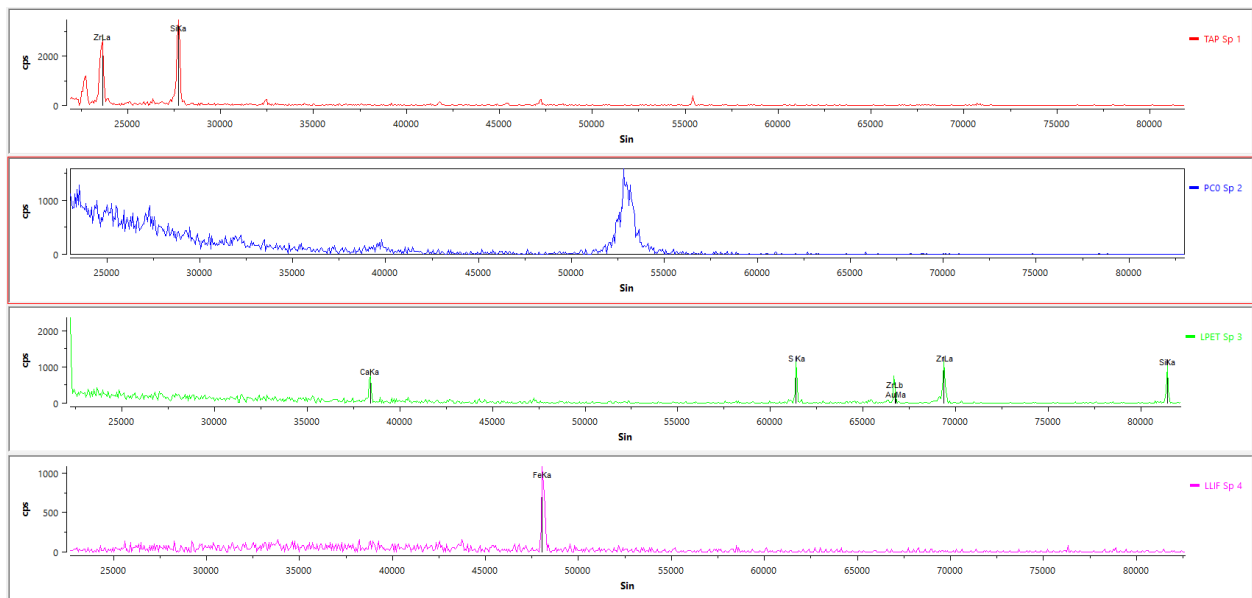
WMEB6_9- Calciocatapleite



WMEB6_12- Bastnäsite



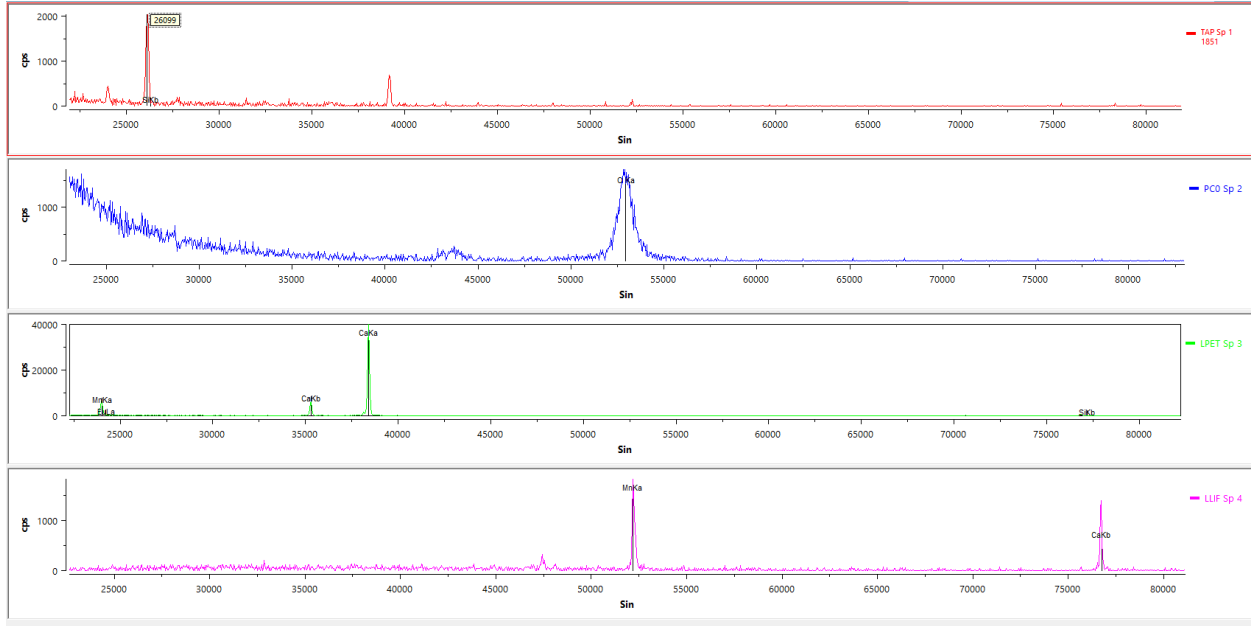
WMEB6_15- Bastnäsite



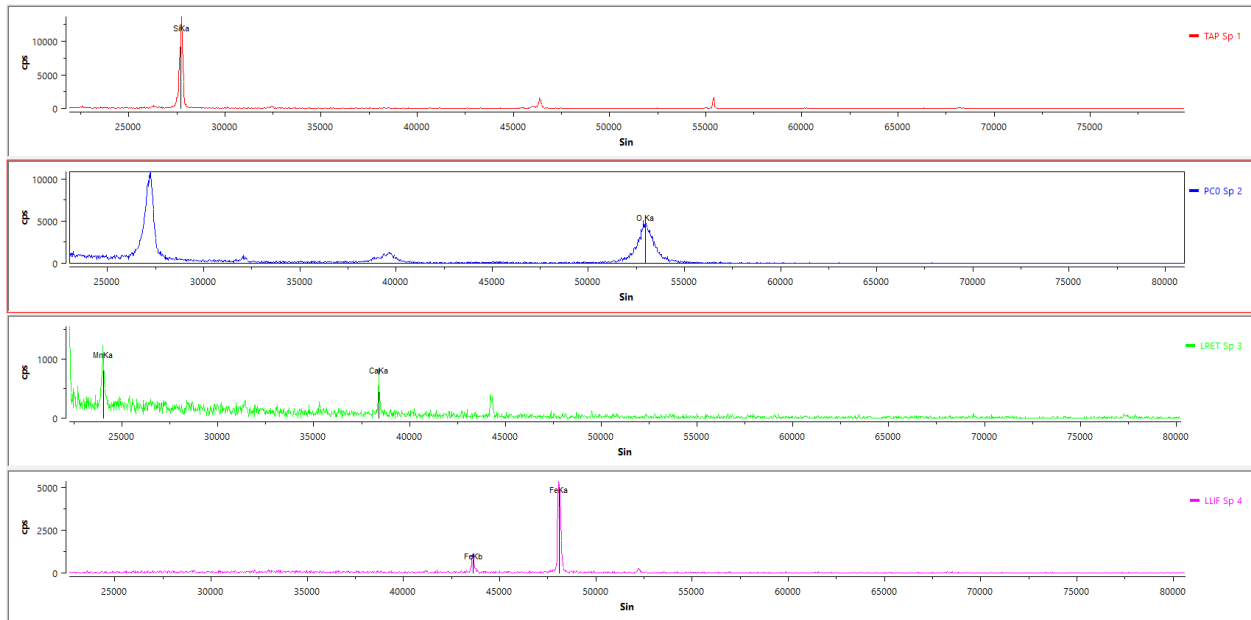
WMEB6_20- Calcioatapleite + Pyrite

N-WMEB- Wind Mountain

Pyroxenes

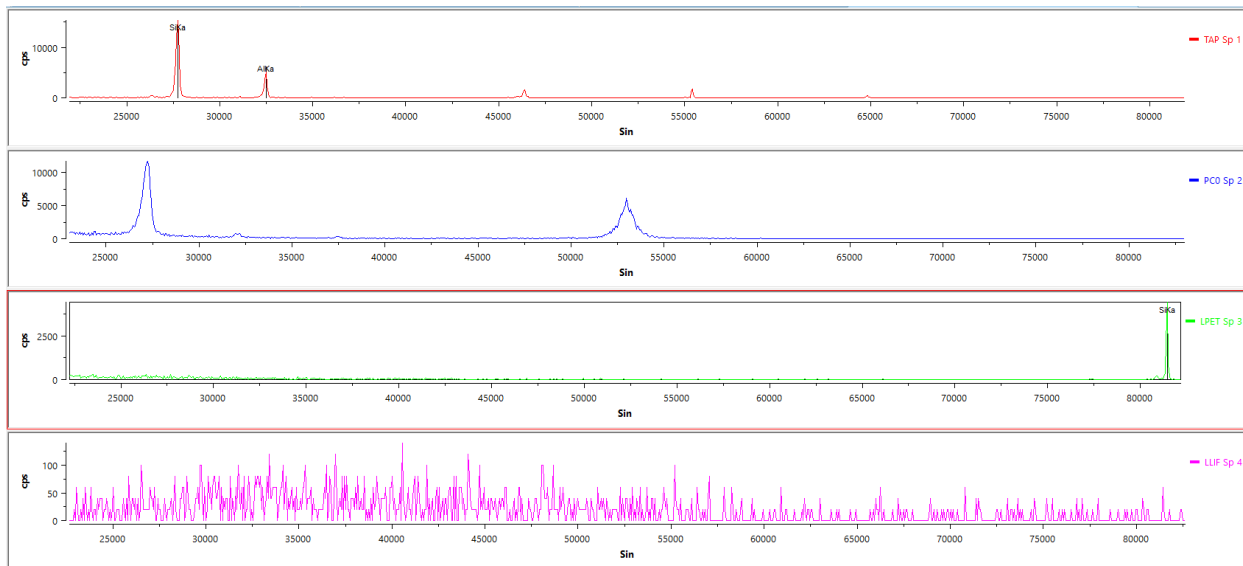


N-WMEB-01-bast_4- Johannsenite



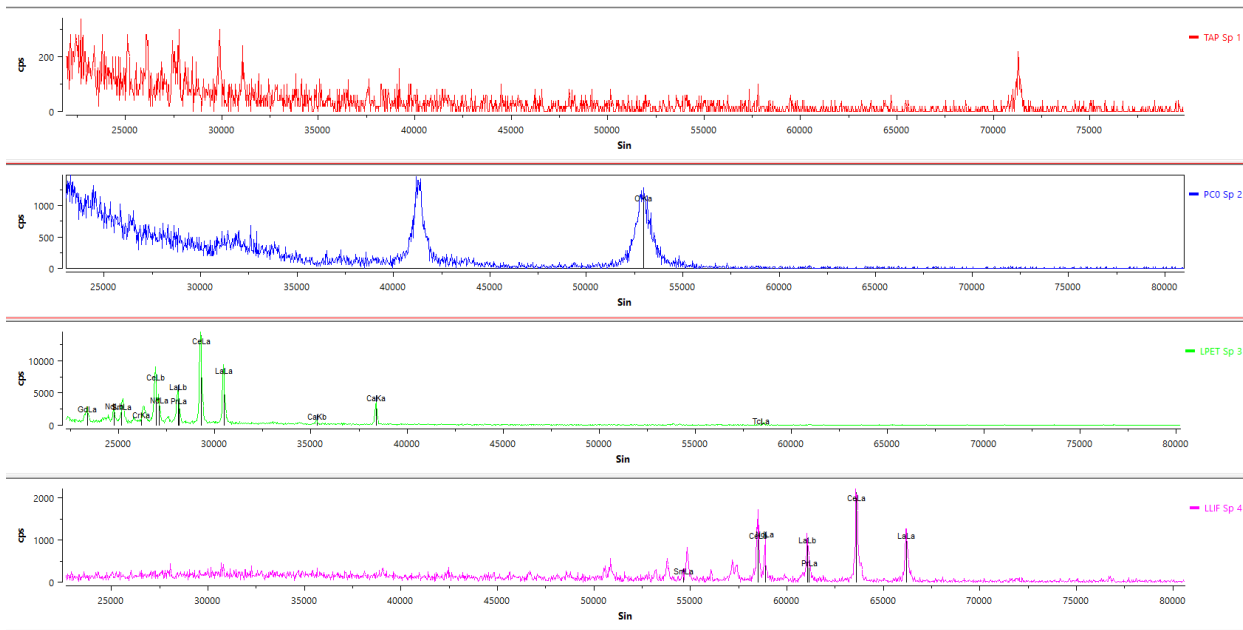
N-WMEB-01-mon_2- Aegirine-augite

Feldspars and Feldspathoids

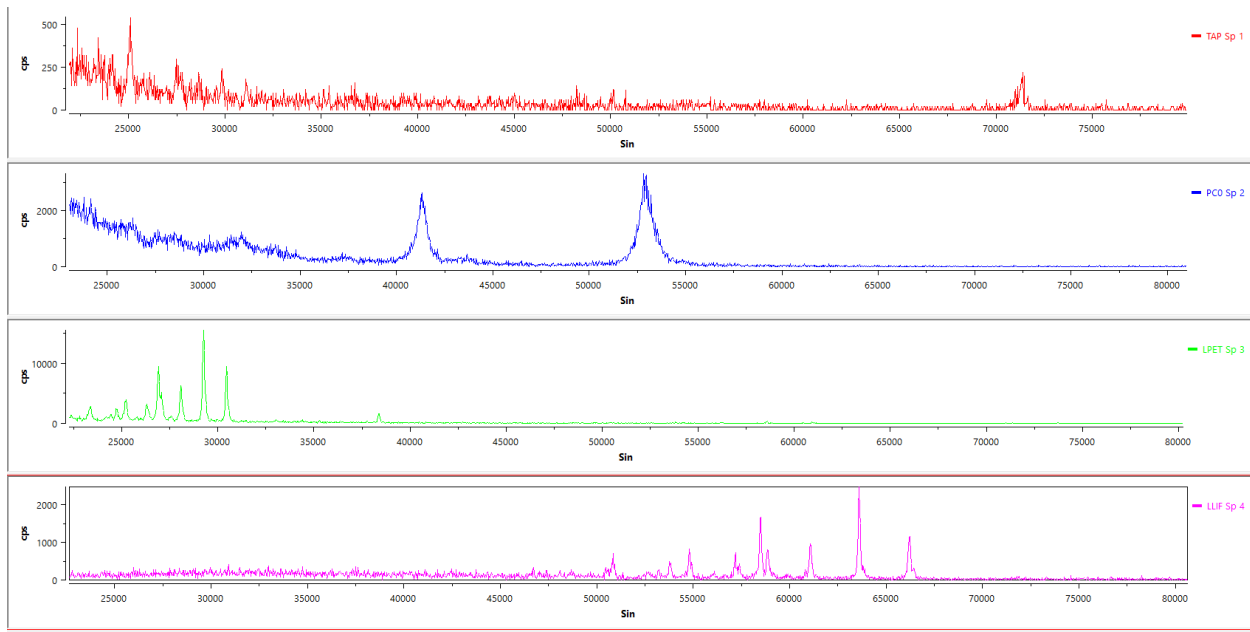


NWMEB_3Test_4- Albite

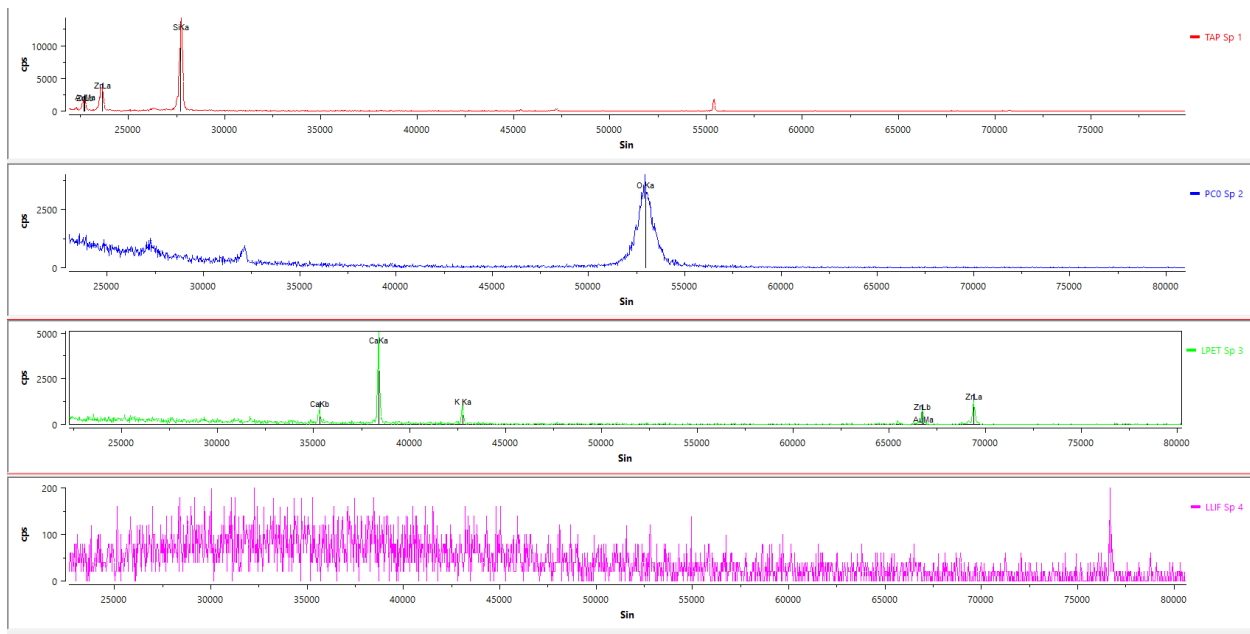
REE, Zr, and Nb Phases



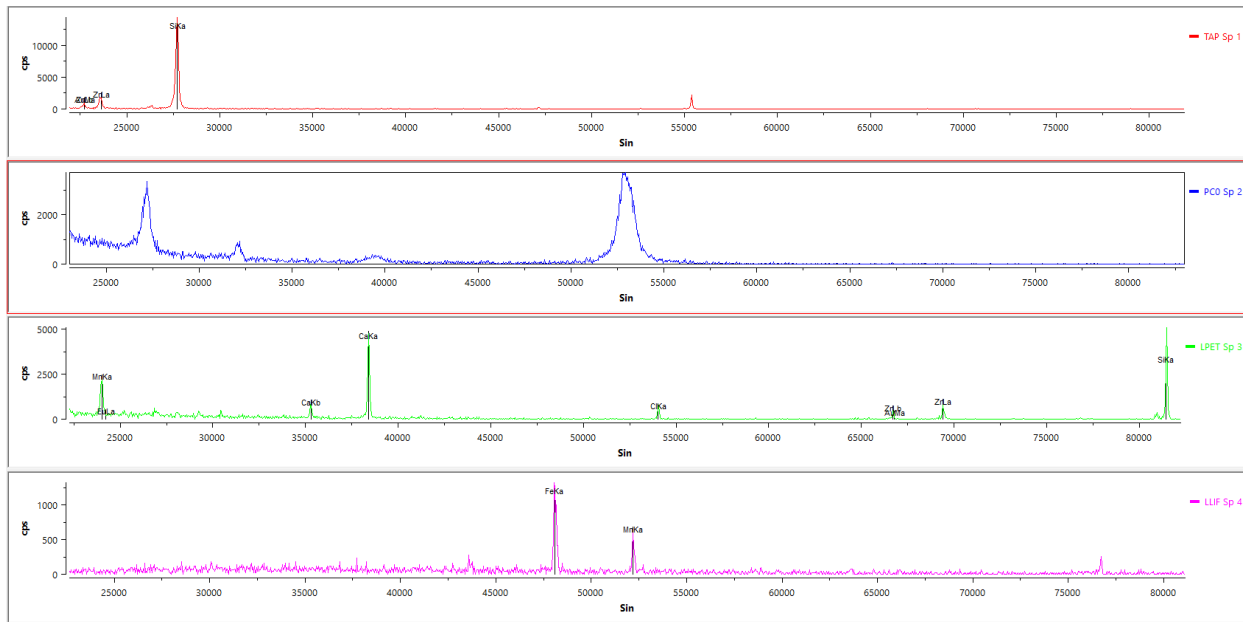
N-WMEB-01-bast_1- Bastnäsite



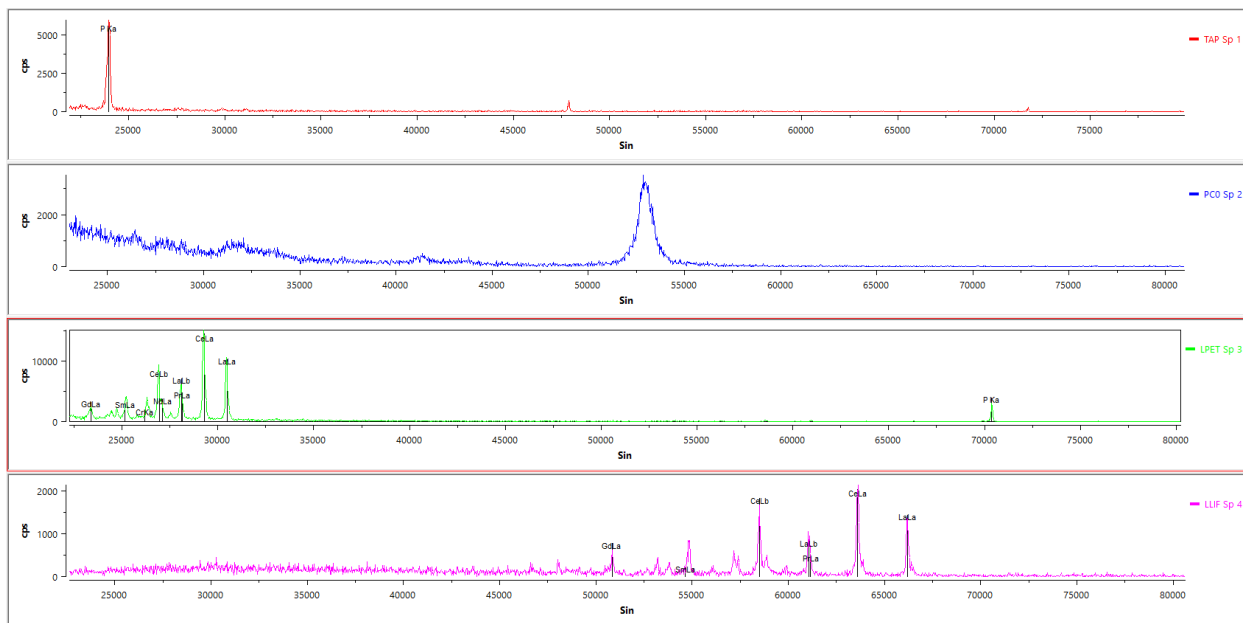
N-WMEB-01-bast_2- Bastnäsite



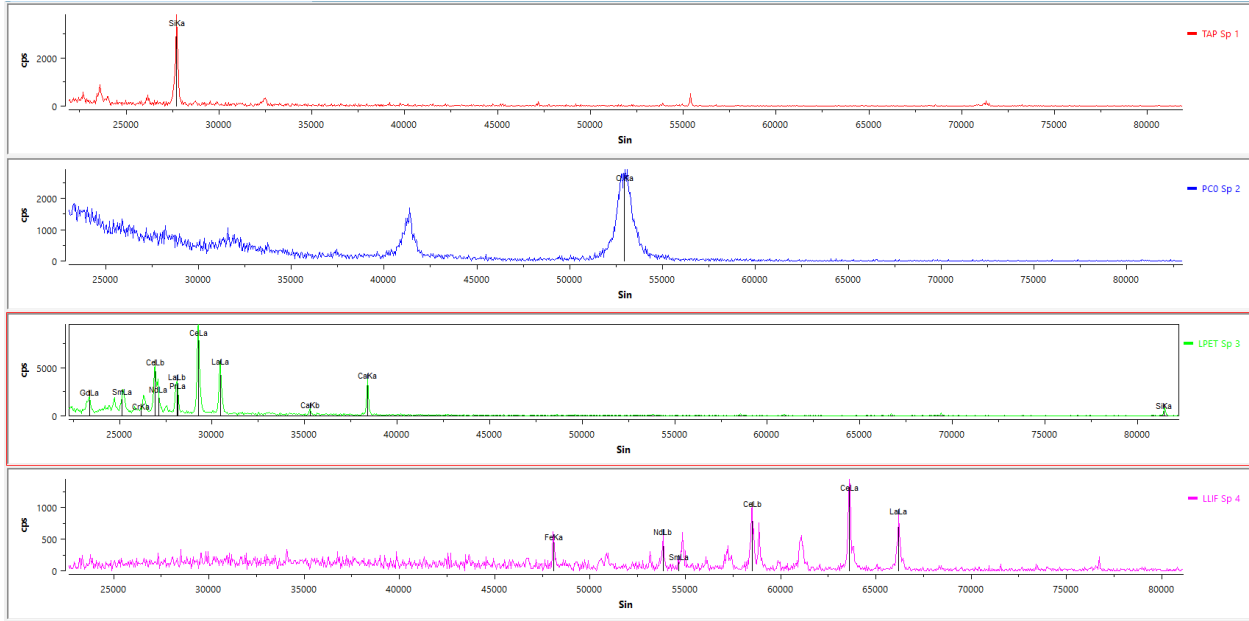
N-WMEB-01-bast_3- Aqualite



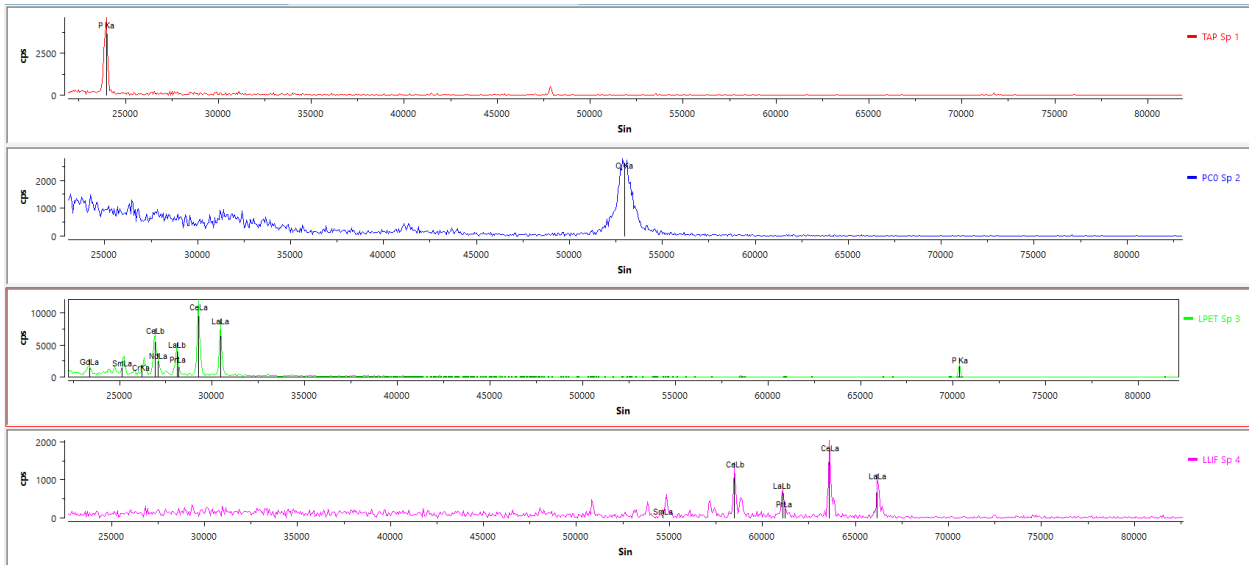
N-WMEB-01-bast_5- Sergevanite



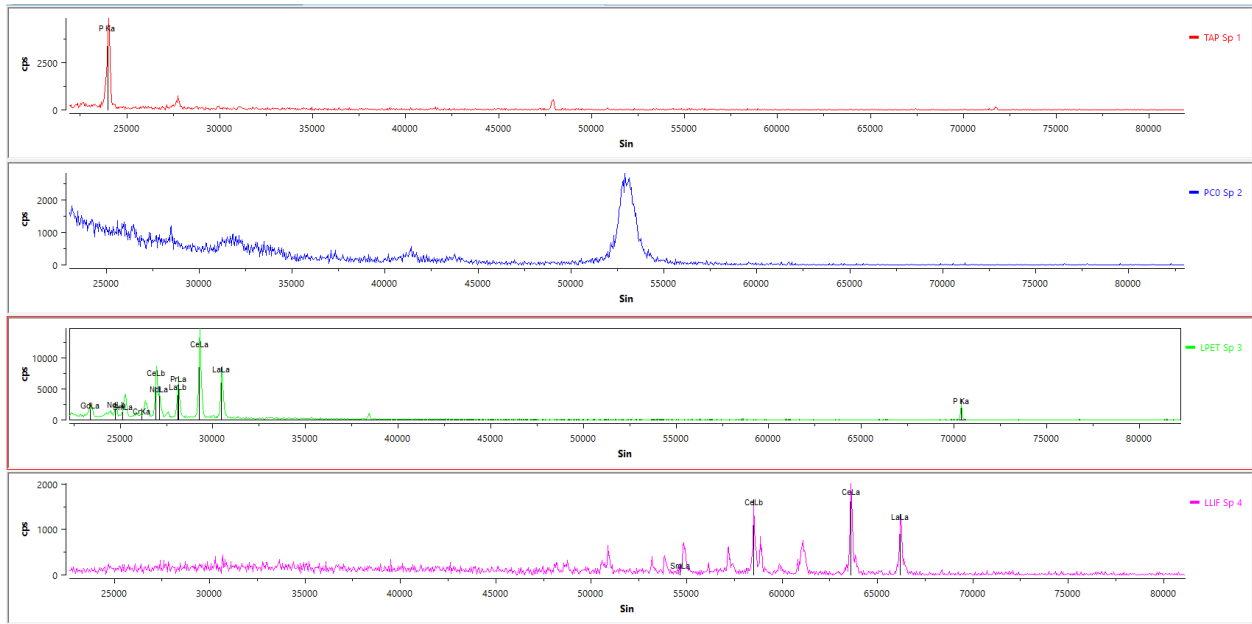
N-WMEB-01-mon_1- monazite



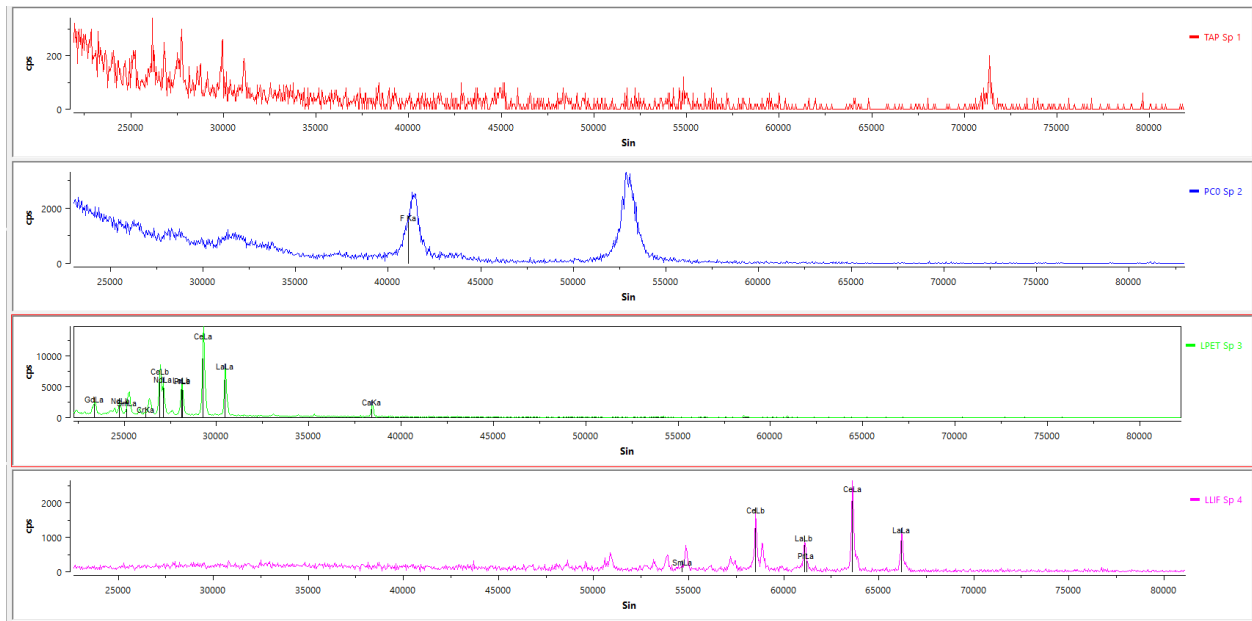
N-WMEB-01-REE_1- Bastnäs site



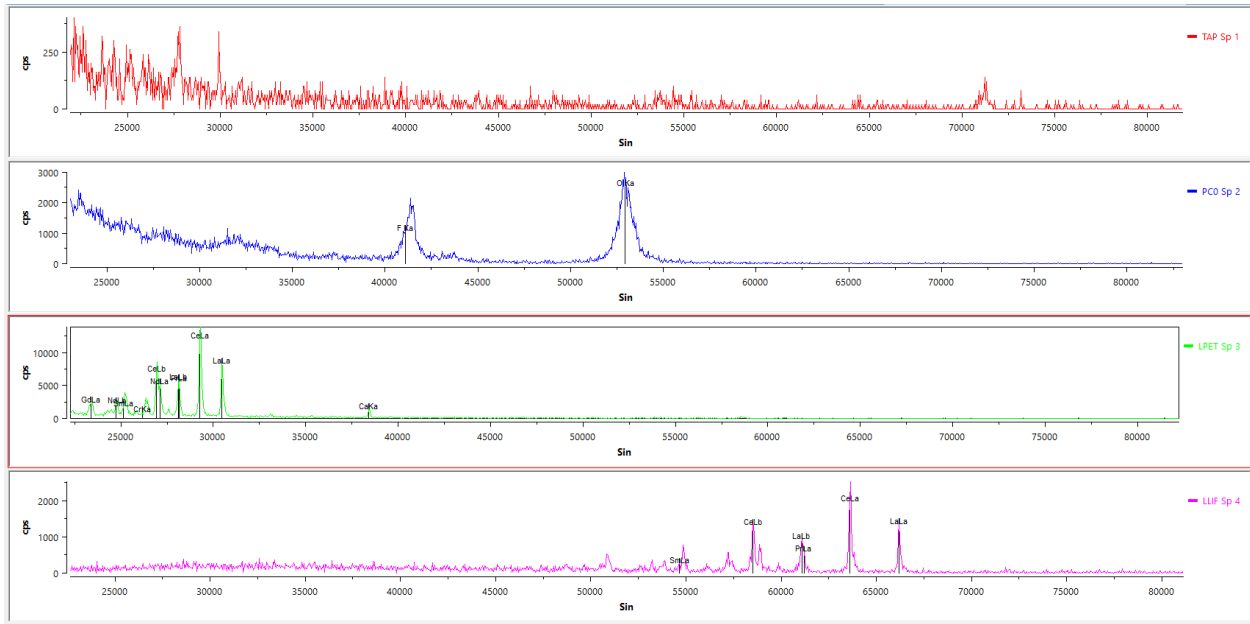
N-WMEB_1Test_2- Monazite



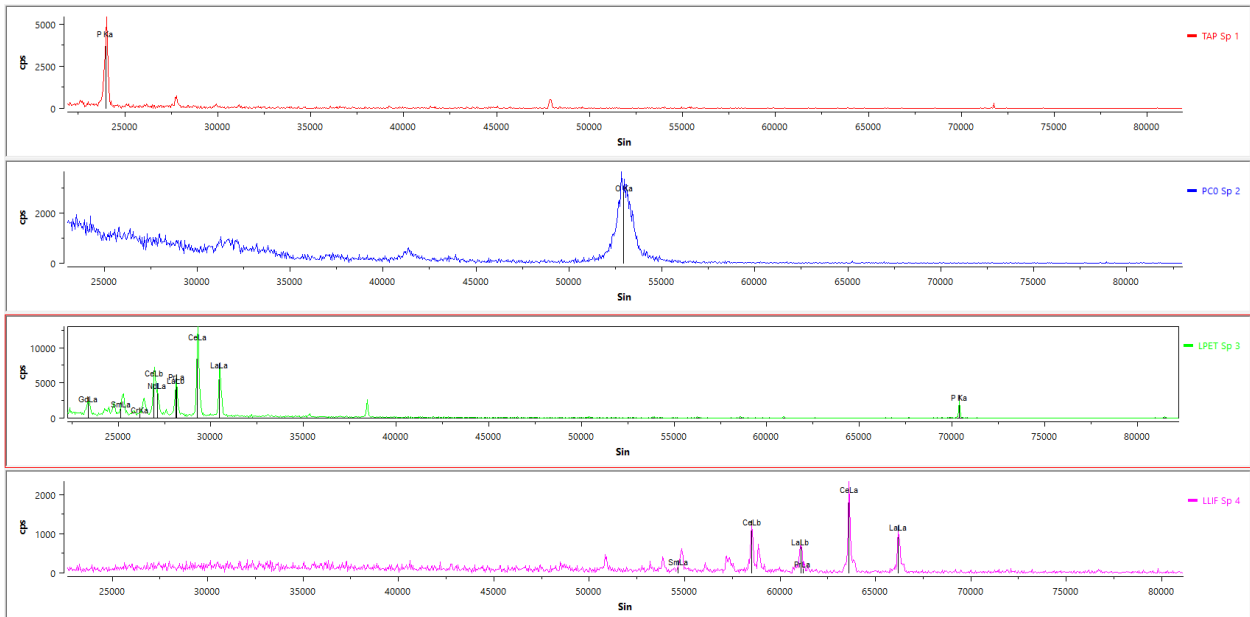
N-WMEB-02-REE_1- Monazite



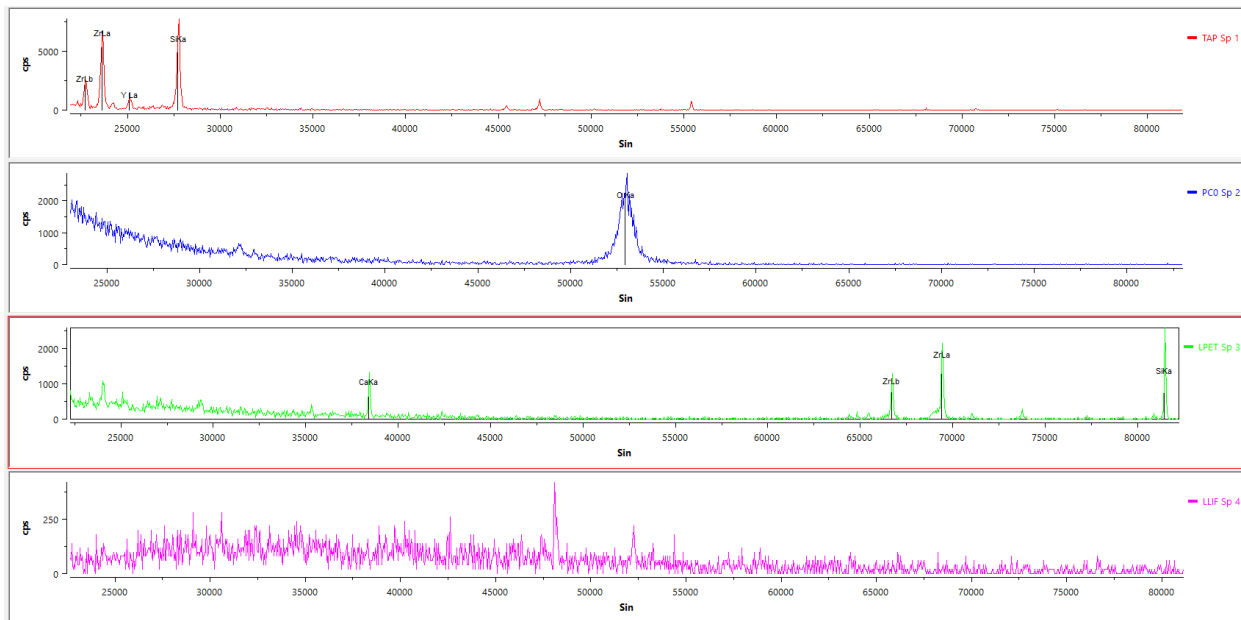
N-WMEB-02-REE_2- Bastnäsite



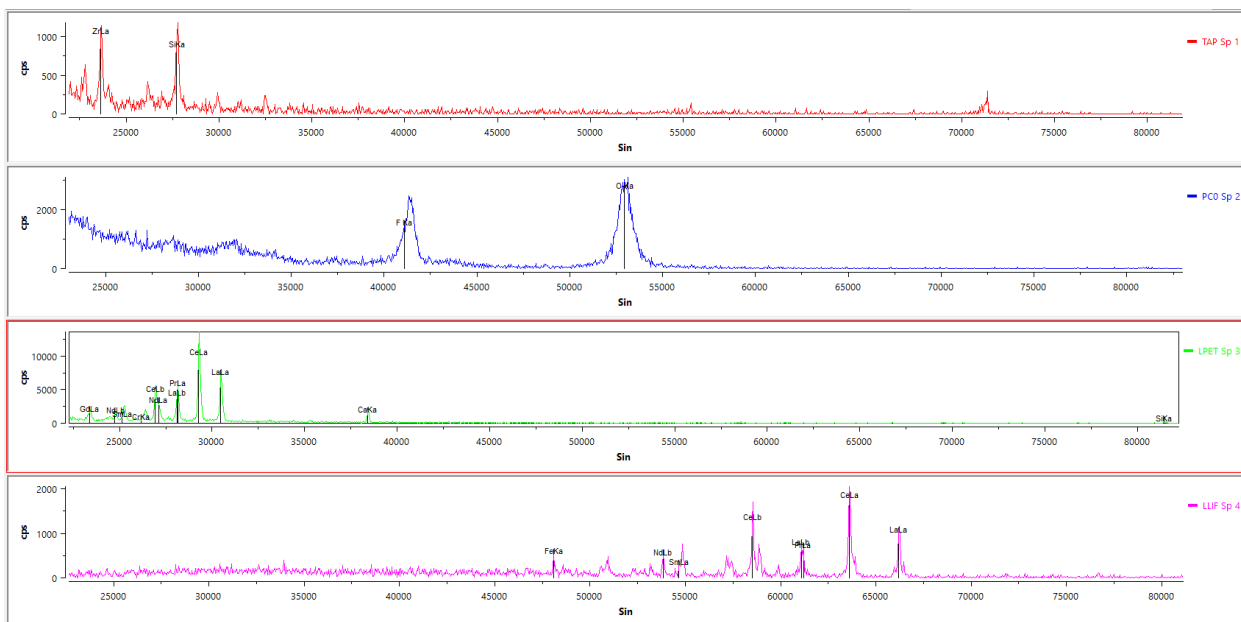
N-WMEB-02-REE_3- Bastnäsite



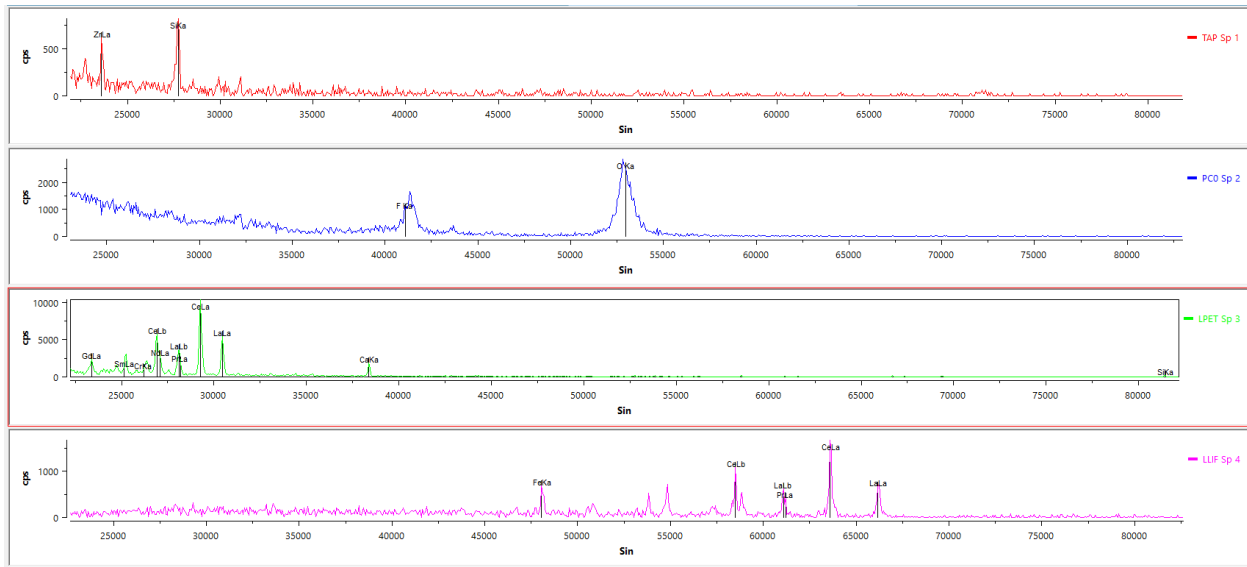
N-WMEB-02-REE_4- Monazite



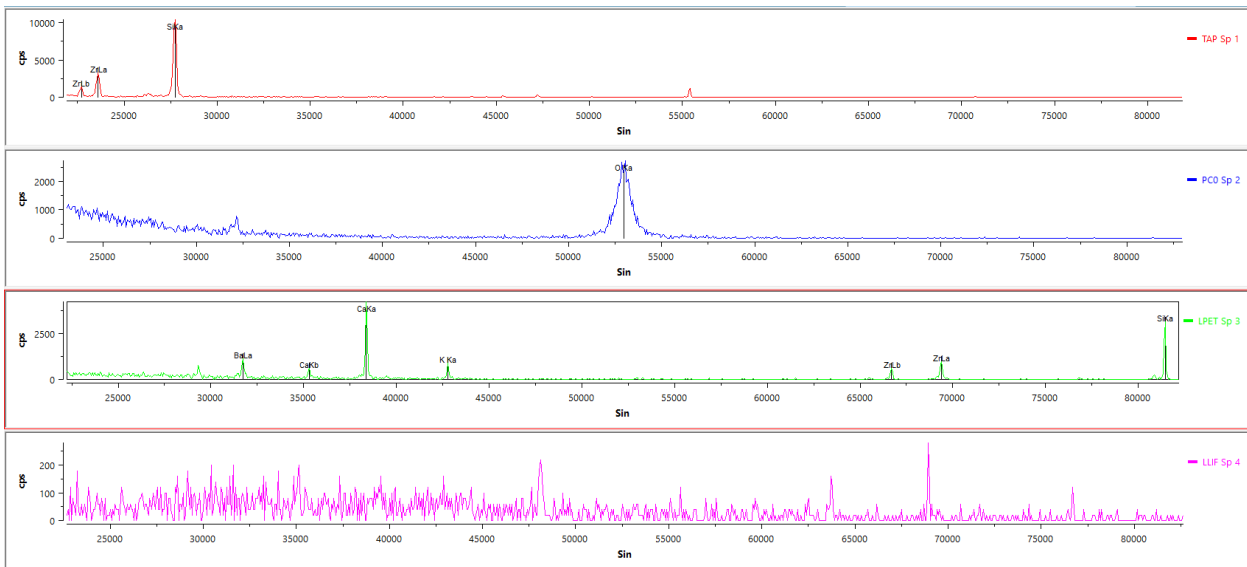
N-WMEB-02-REE_5- Calciocatapleite



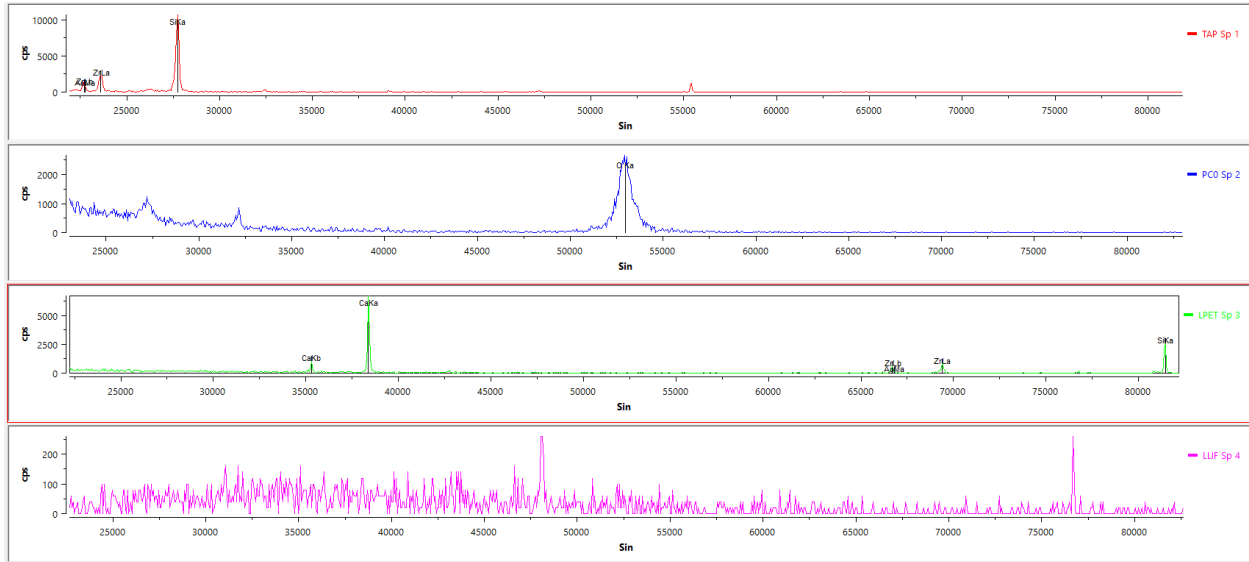
N-WMEB-02-REE_6- Bastnäsité Mixed Phase



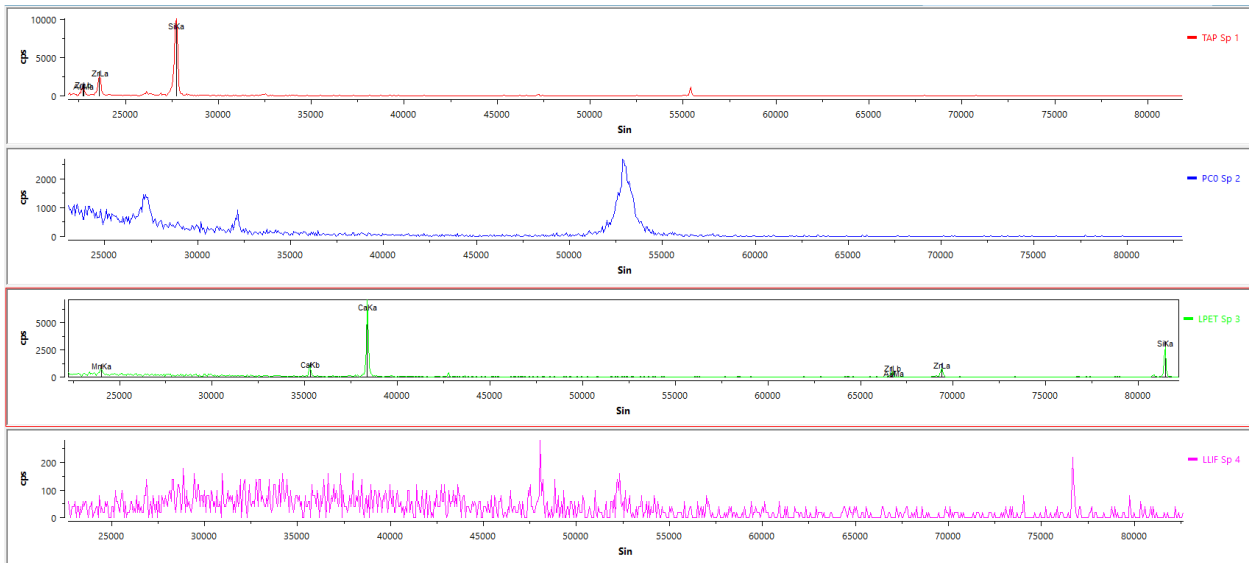
NWMEB_2Test_3- Bastnäsite Mixed Phase



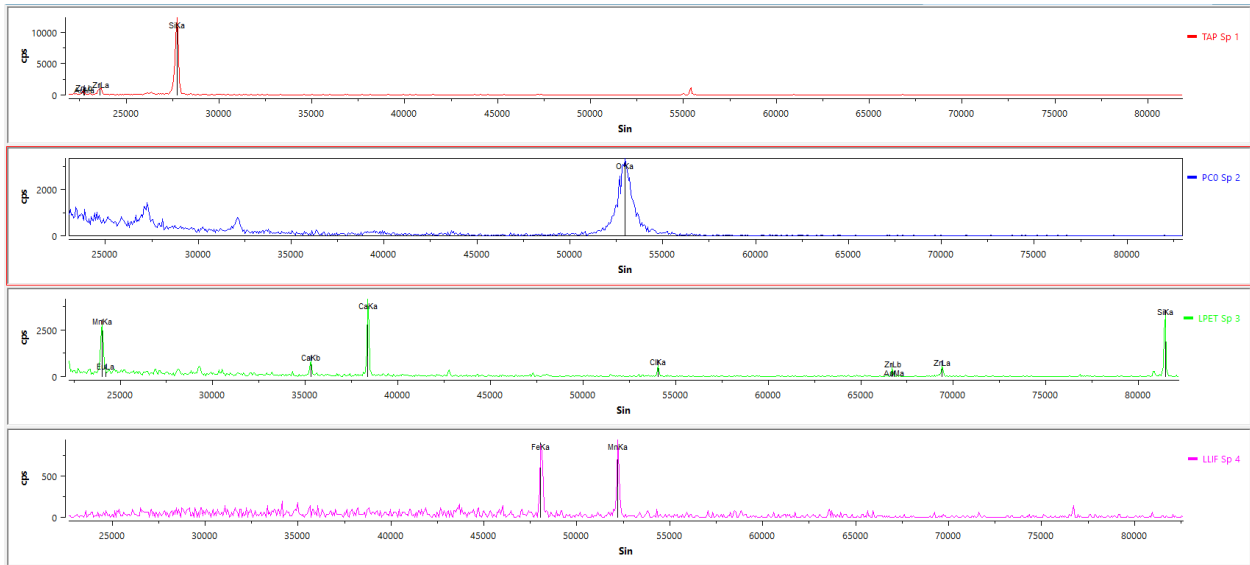
NWMEB_2Test_4- Aqualite



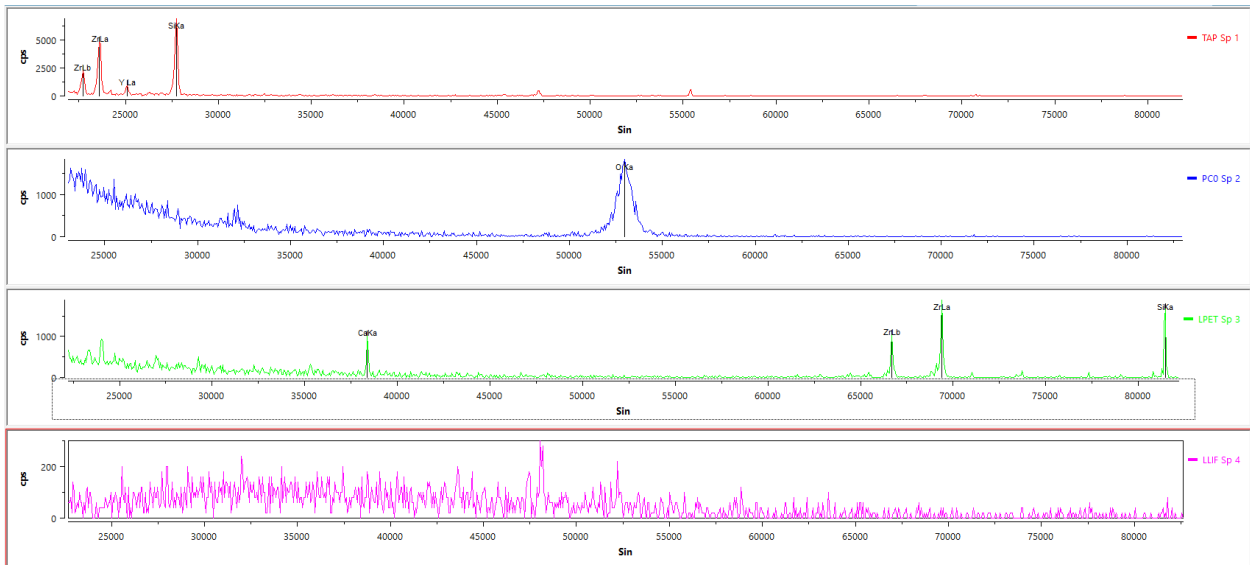
NWMEB_2Test_6- Calcioatapleite



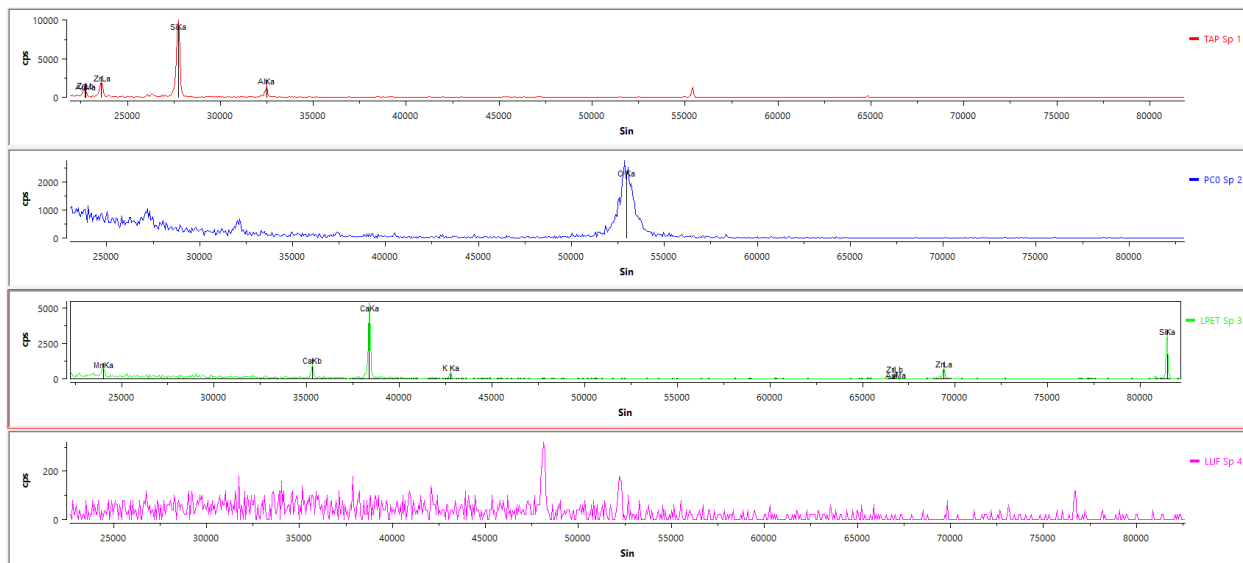
NWMEB_2Test_8- Calcioatapleite



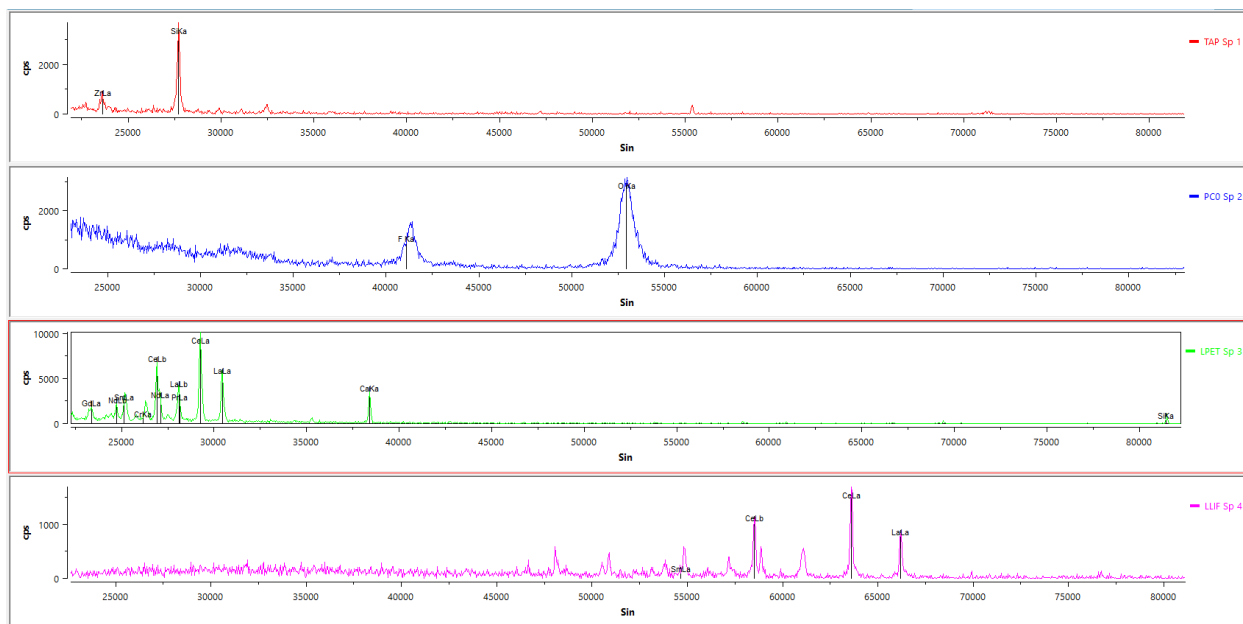
NWMEB_2Test_9- Sergevanite



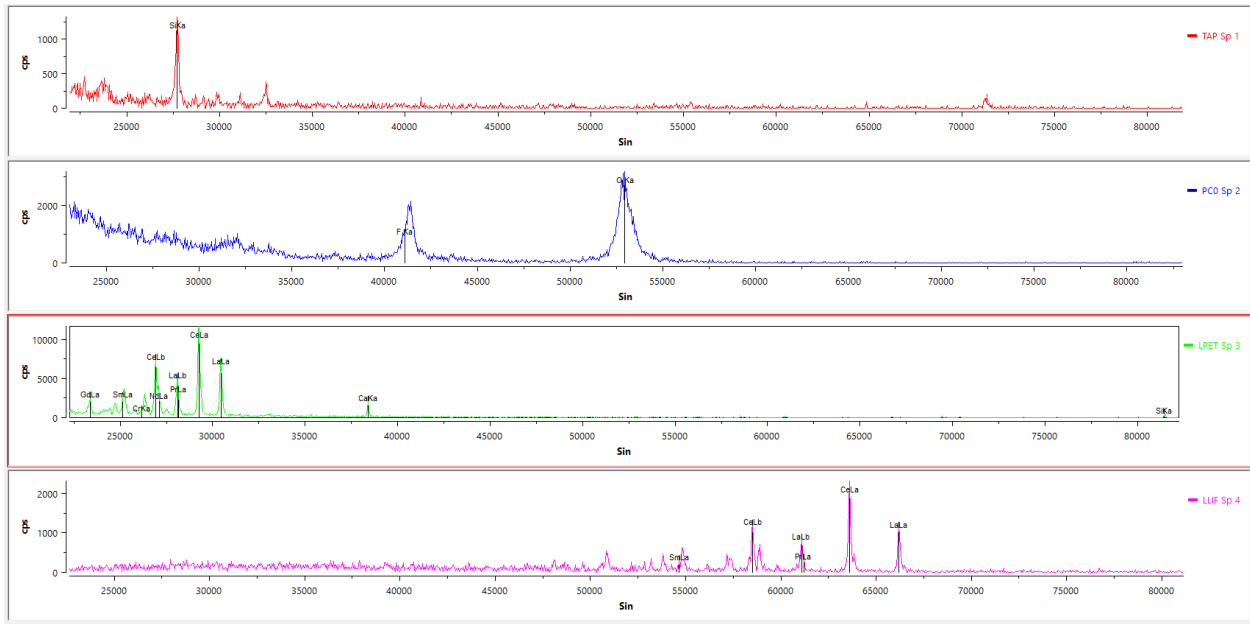
NWMEB_2Test_10- Calciocatapleite



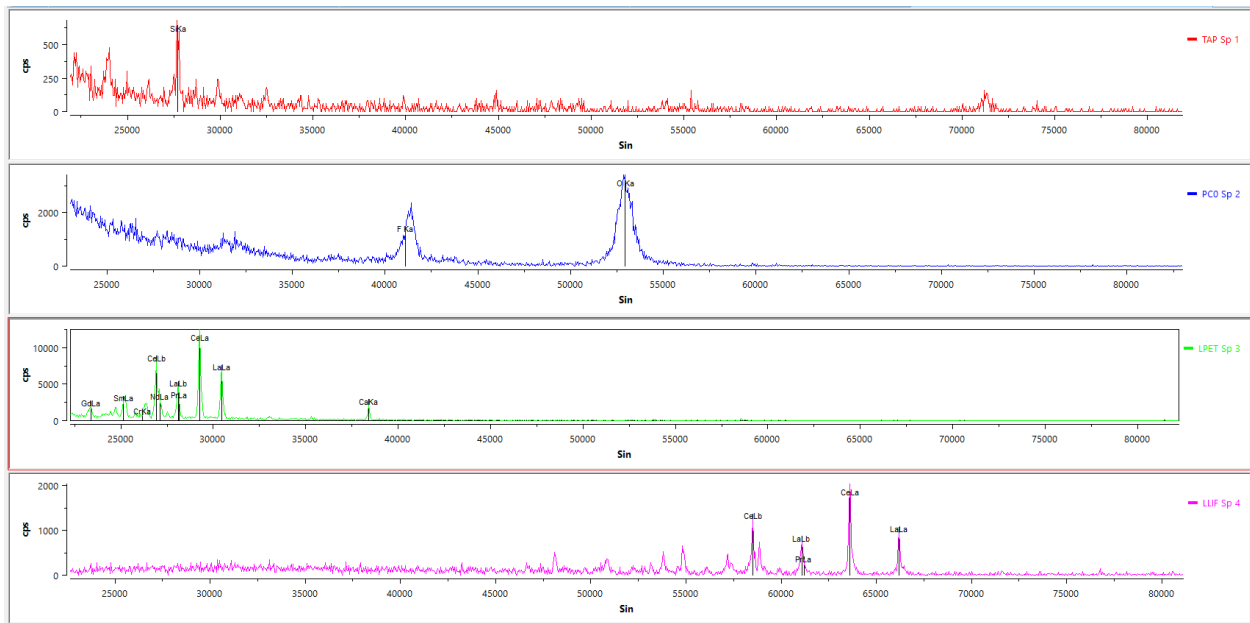
NWEMB_2Test_12- Calcicocatpleiite Mixed Phase



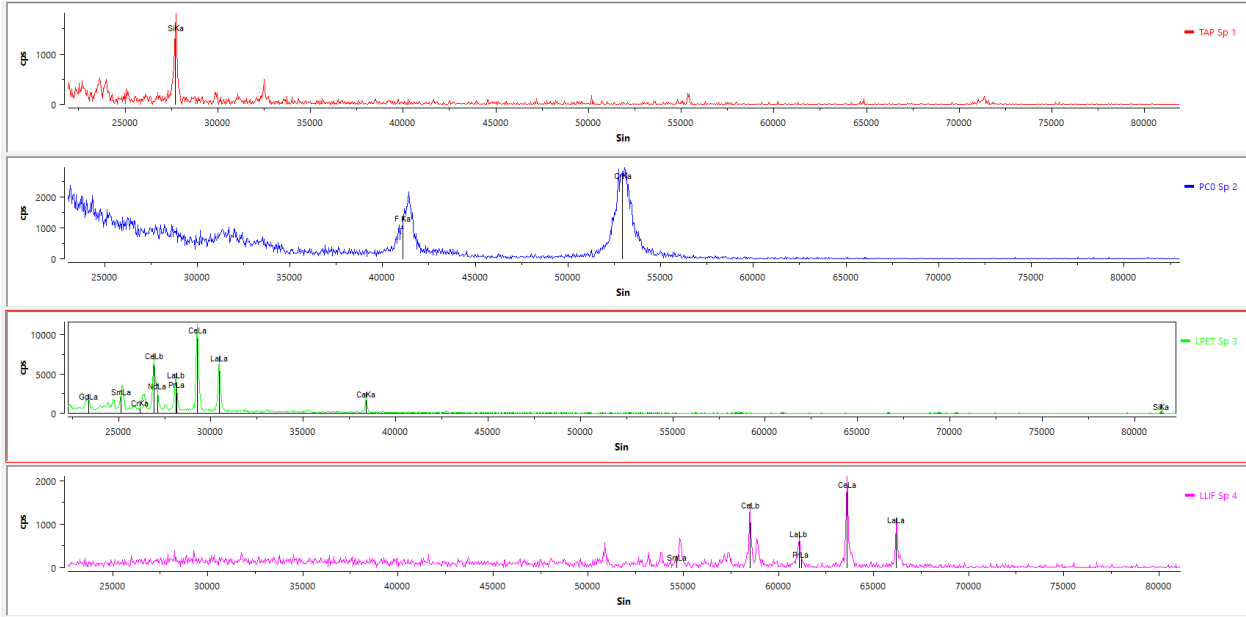
N-WMEB-03-REE_2- Bastnäsite + Calcicocatpleiite



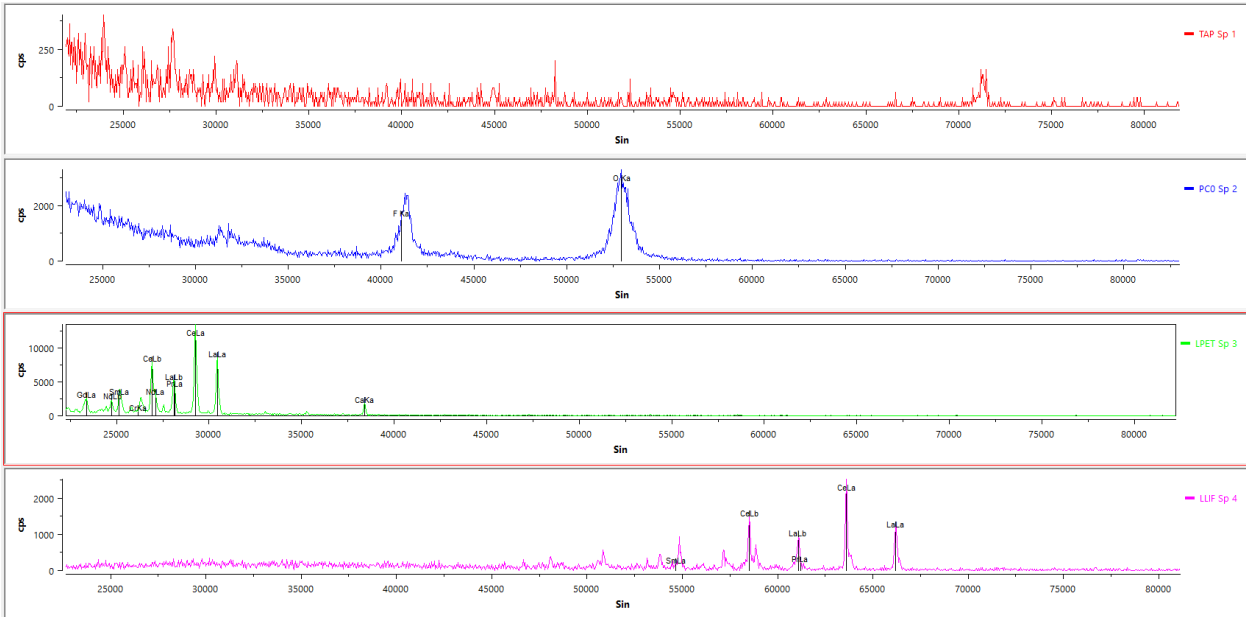
N-WMEB-03-REE_3- Bastnäsite Mixed Phase



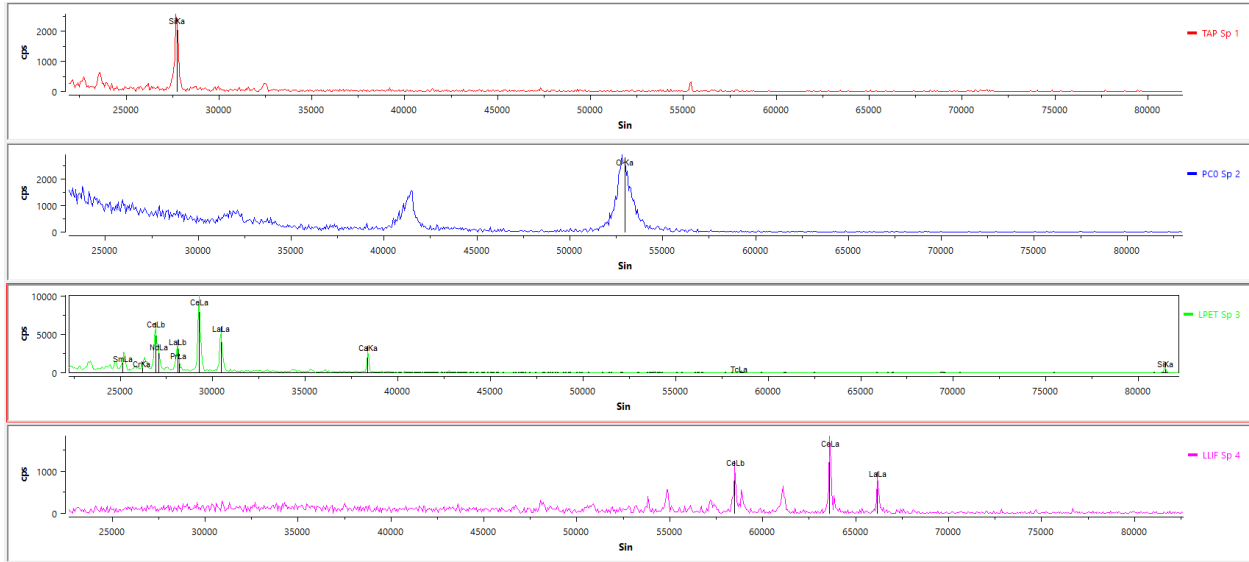
N-WMEB-03-REE_4- Bastnäsite Mixed Phase



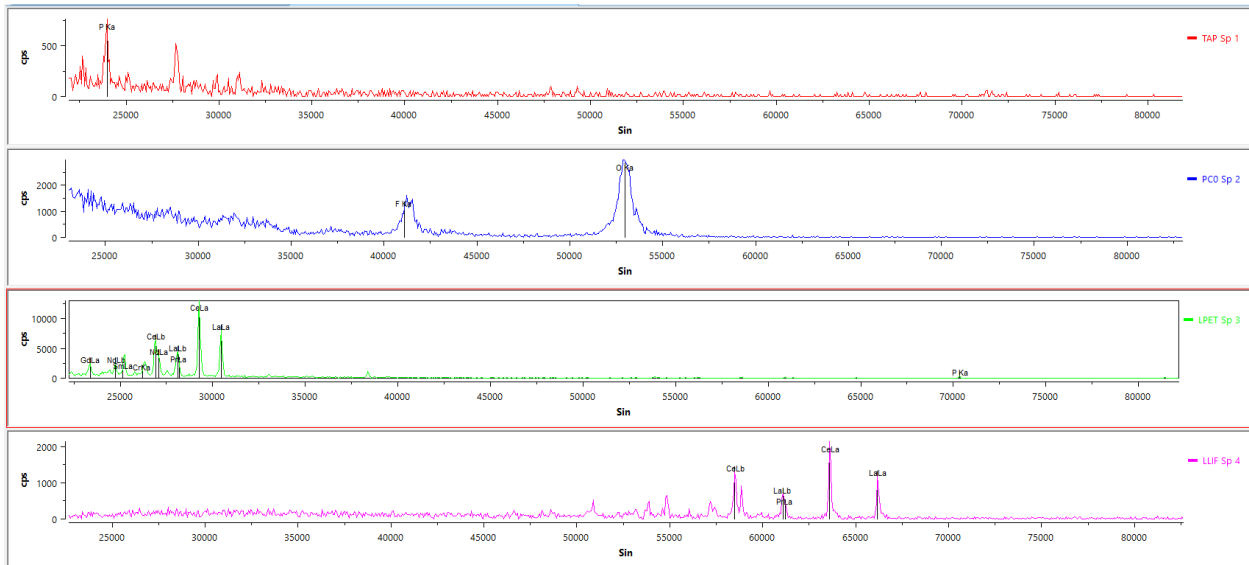
N-WMEB-03-REE_5- Bastnäsite Mixed Phase



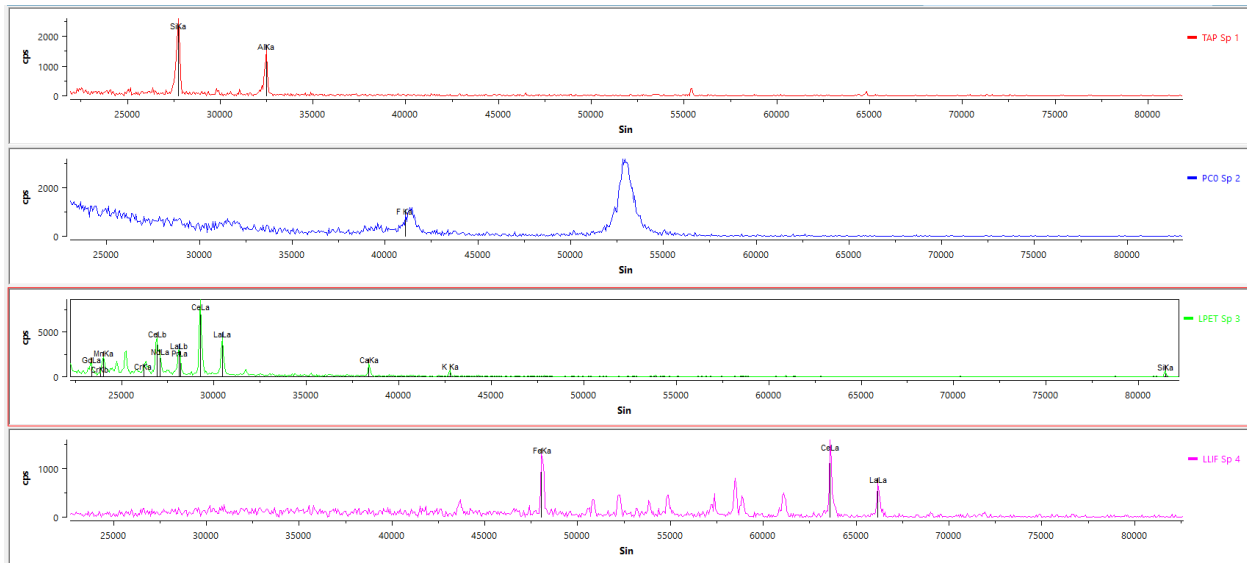
N-WMEB-03-REE_6- Bastnäsite



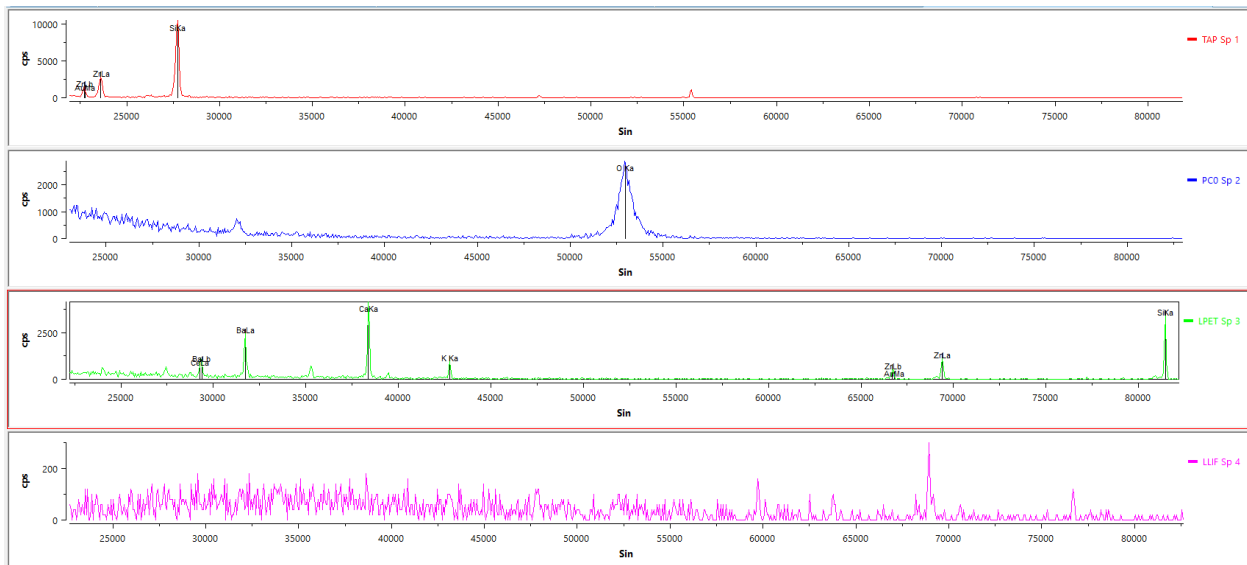
NWMEB_3Test_1- Bastnäsité Mixed Phase



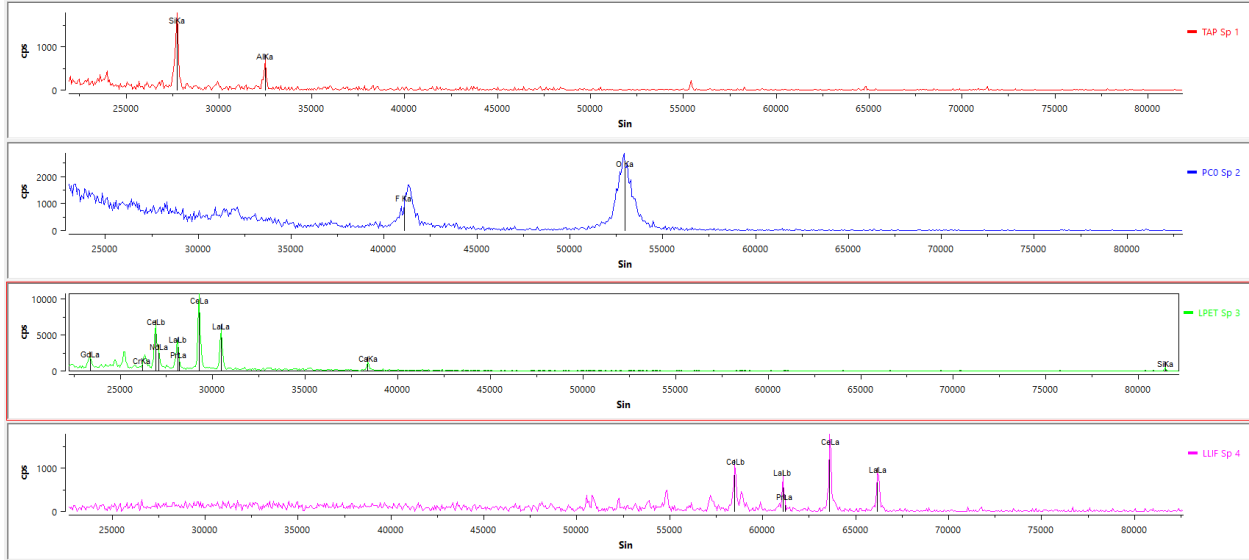
NWMEB_3Test_2- Bastnäsité + Monazite



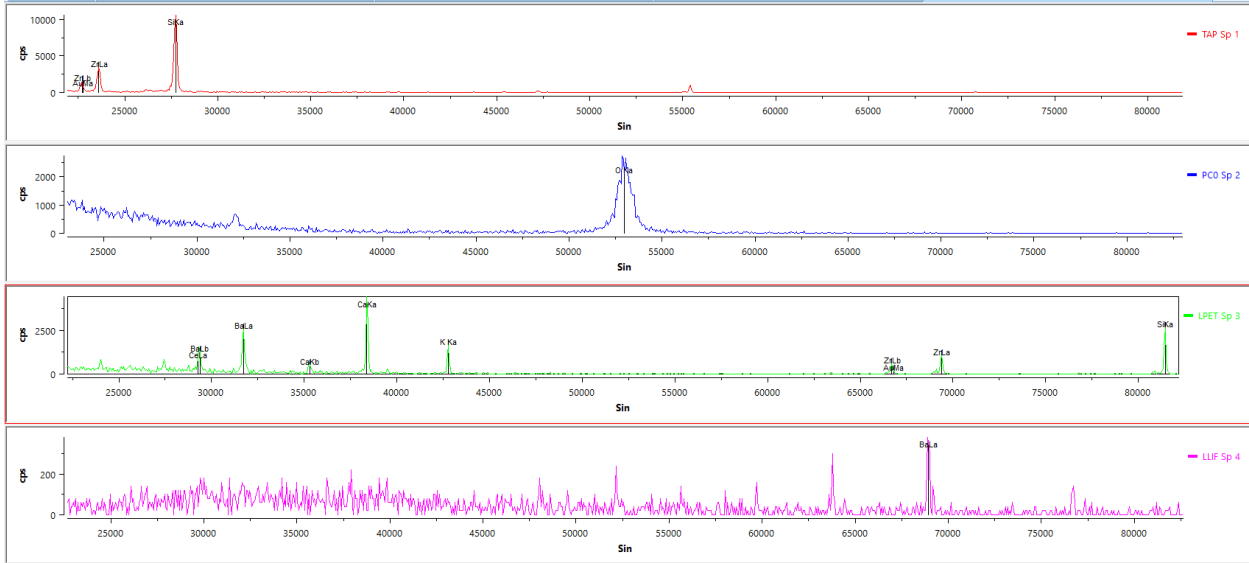
NWMEB_3Test_5- Bastnäsite Mixed Phase



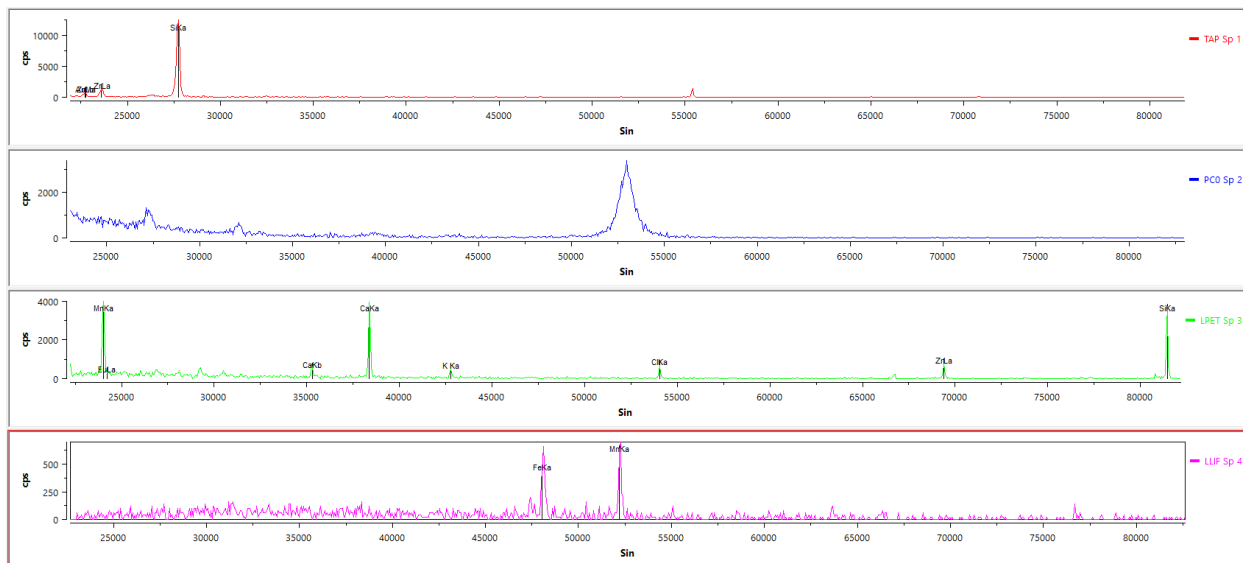
NWMEB_3Test_7- Aqualite



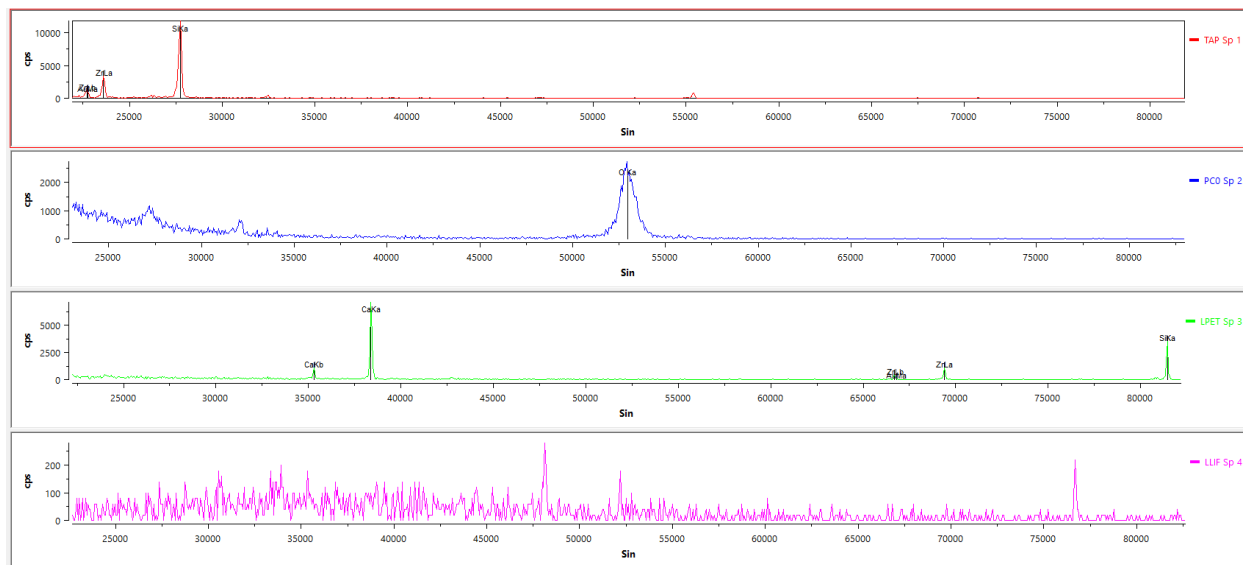
NWMEB_3Test_8- Bastnäsite Mixed Phase



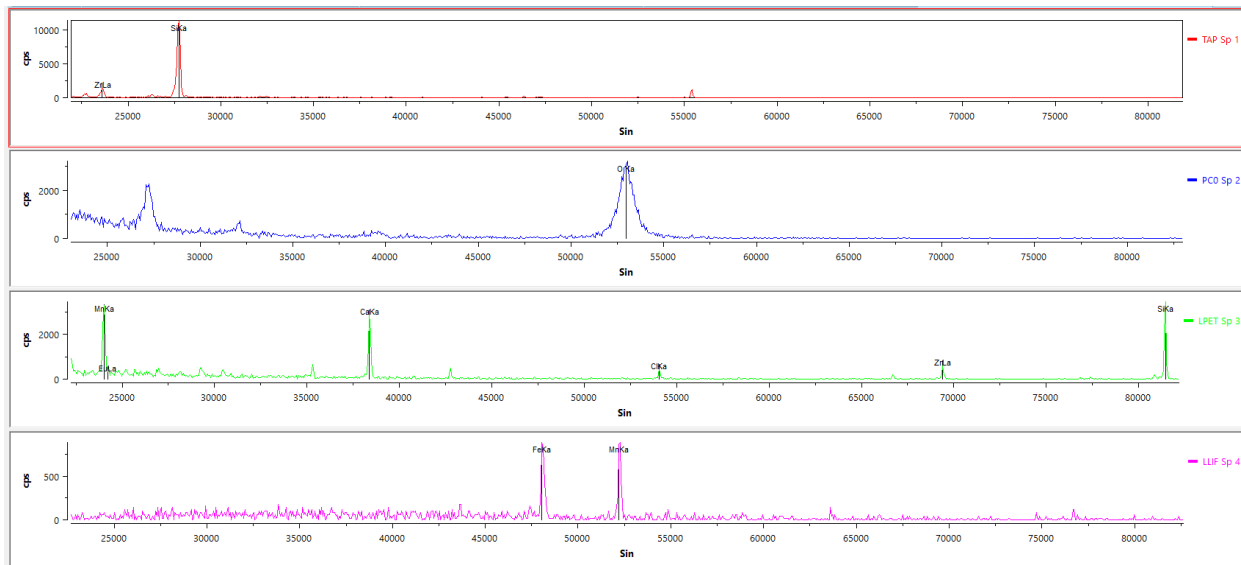
NWMEB_3Test_9- Aqualite



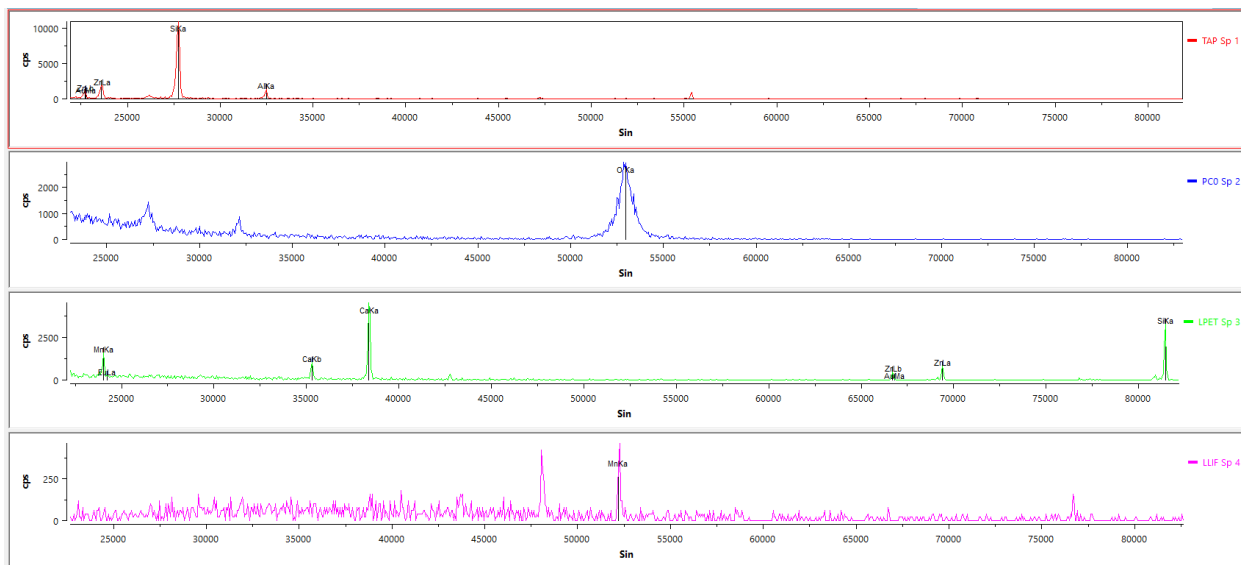
NWMEB_3Test_10- Sergevanite



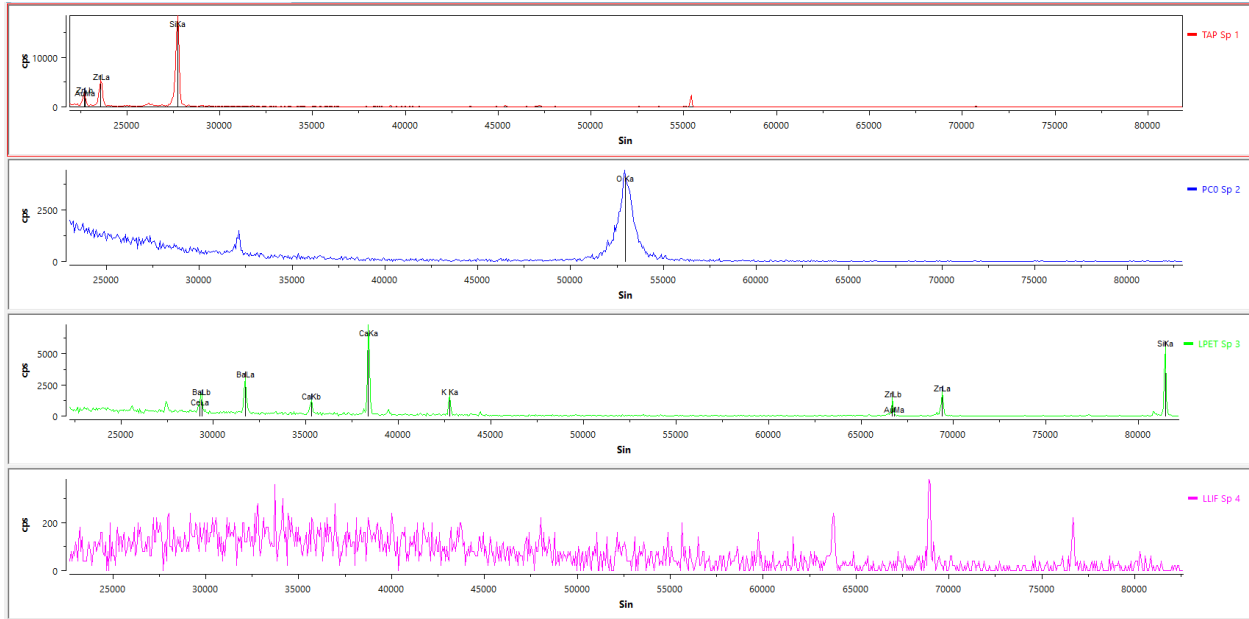
NWMEB_3Test_11- Calciocatapleite



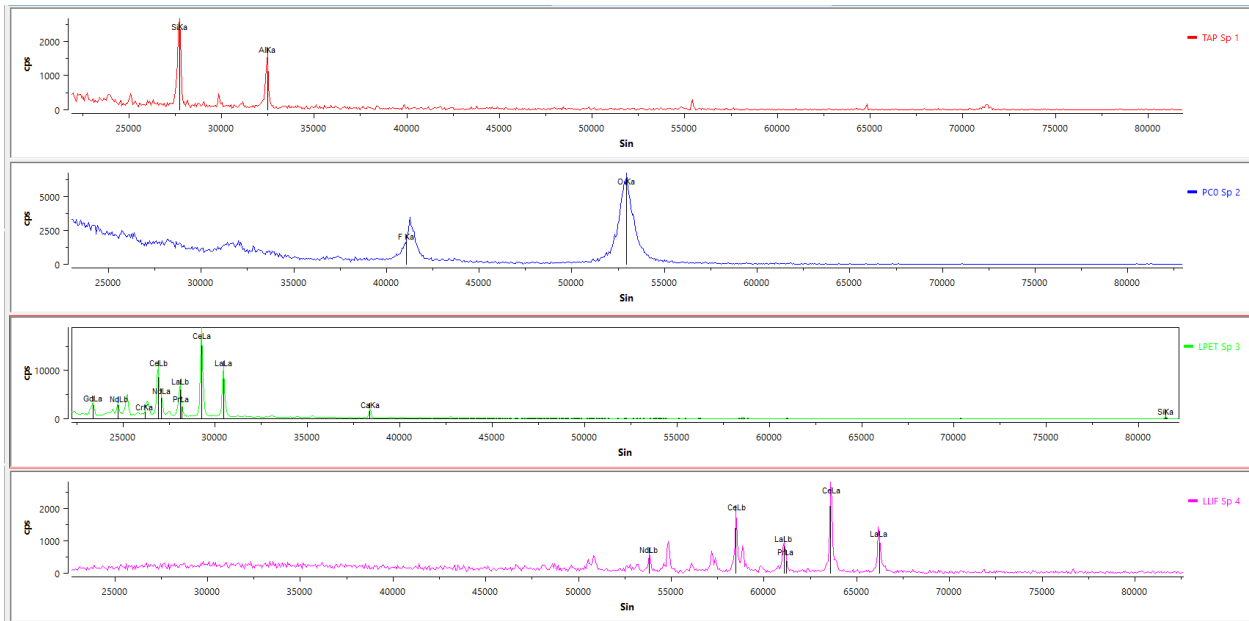
NWMEB_3Test_12- Sergevanite



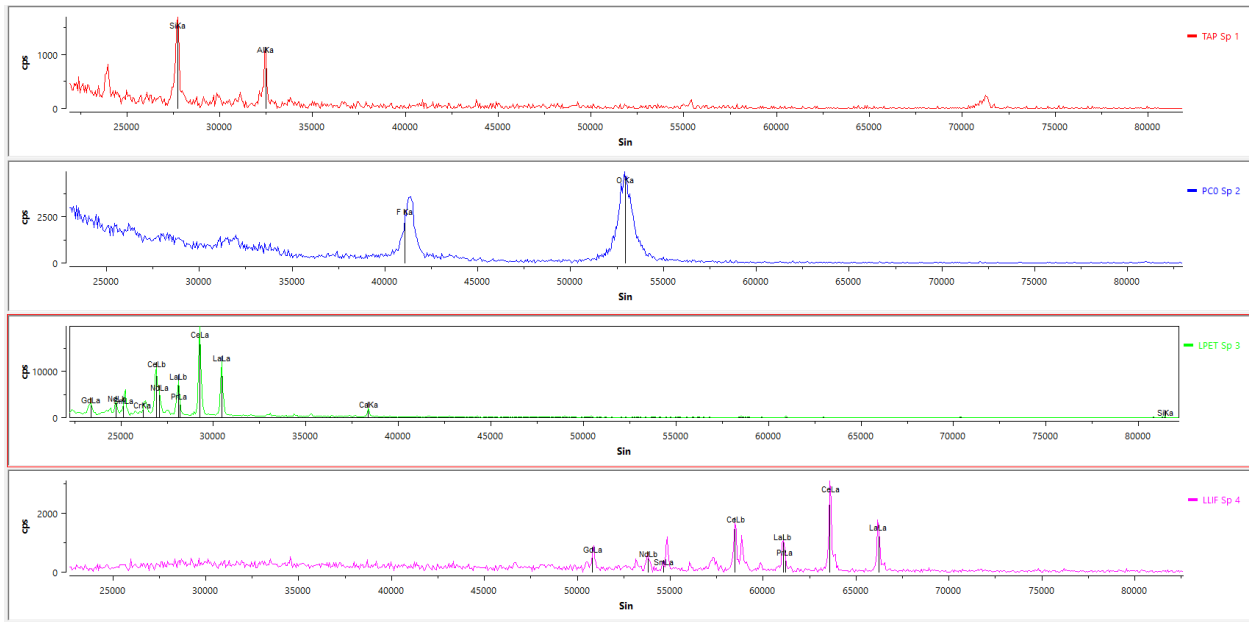
NWMEB_3Test_13- Calciocatapleite Mixed Phase



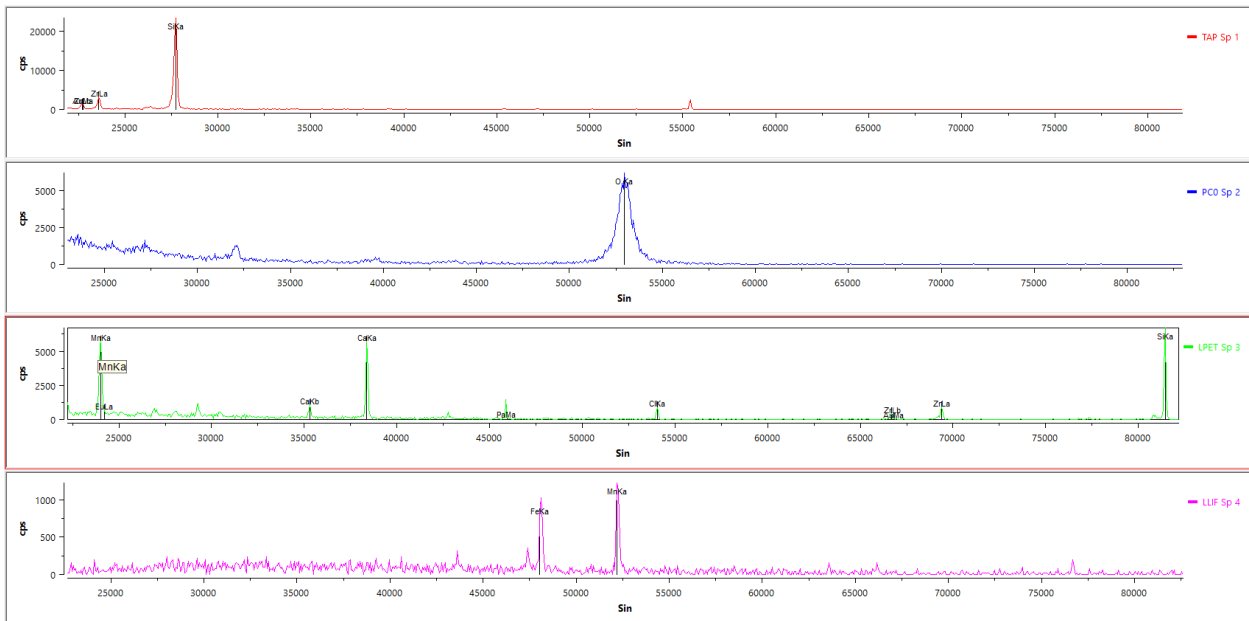
N-WMEB-04-REE_2- Aqualite



N-WMEB-04-REE-4- Bastnäsite Mixed Phase



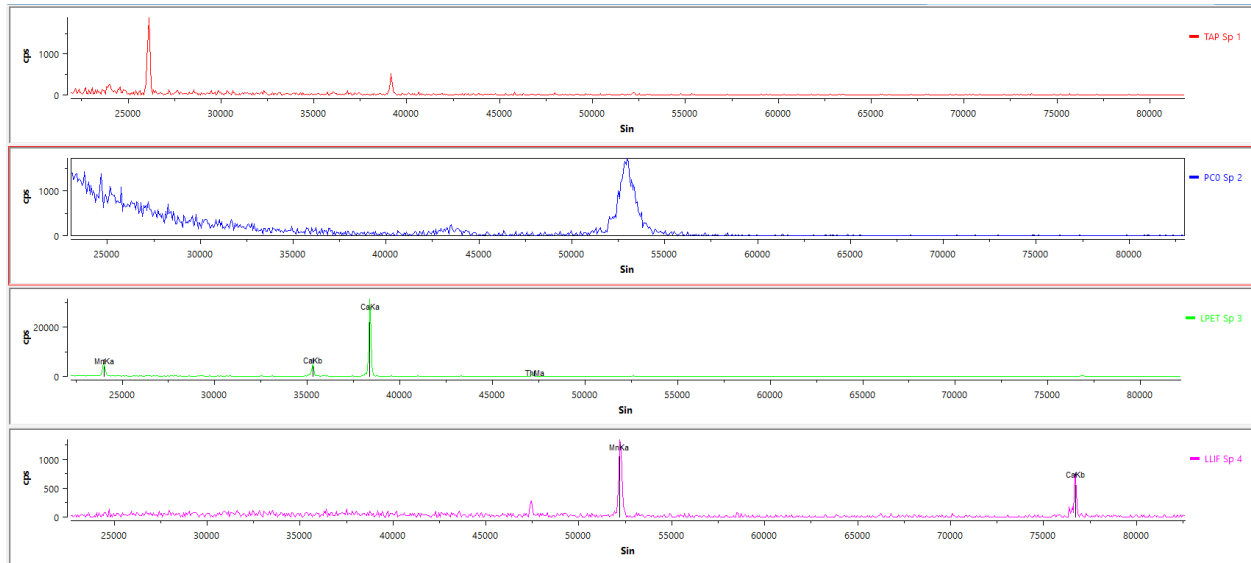
N-WMEB-04-REE_5- Bastnäsit Mixed Phase



N-WMEB-04-REE_6- Sergevanit

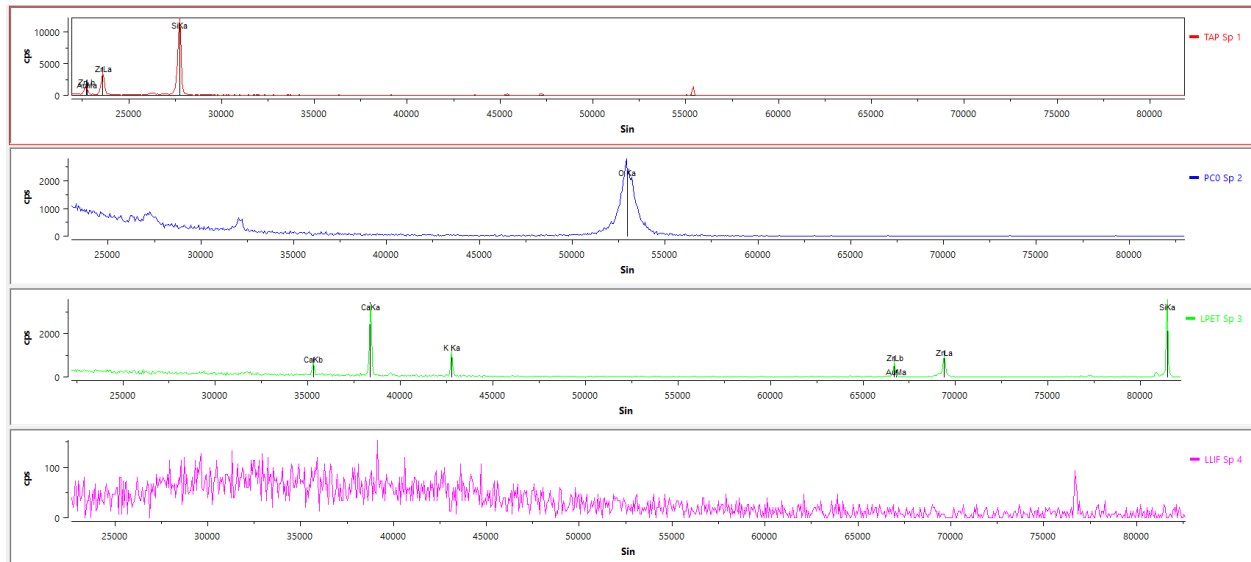
SWMEB- Wind Mountain

Pyroxenes

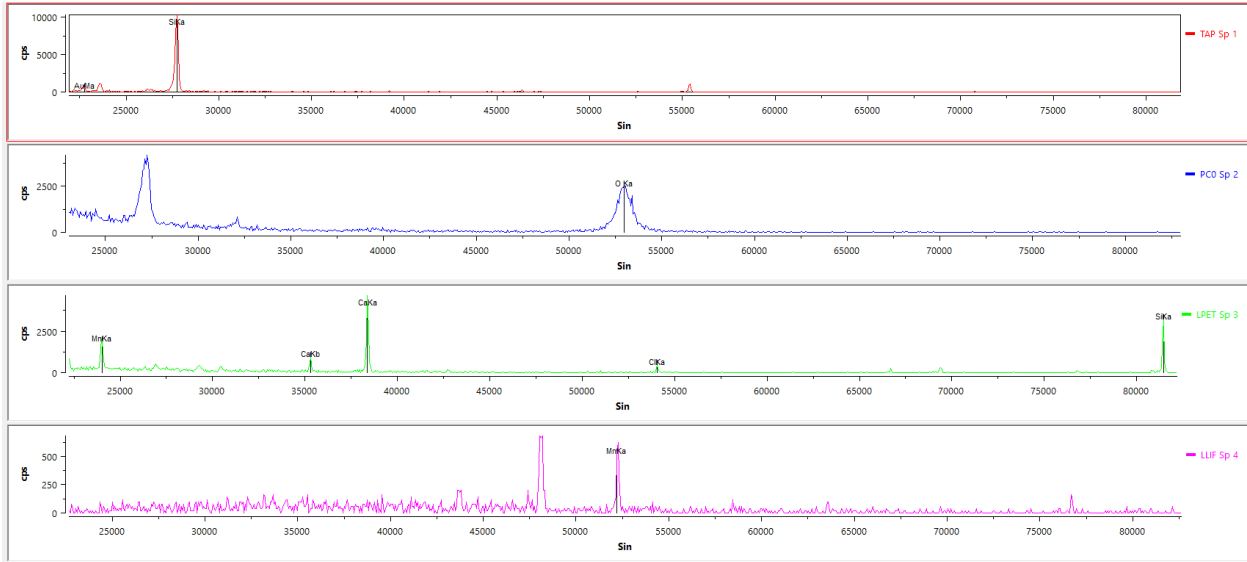


SWMEB_5 Test_2- Johannsenite

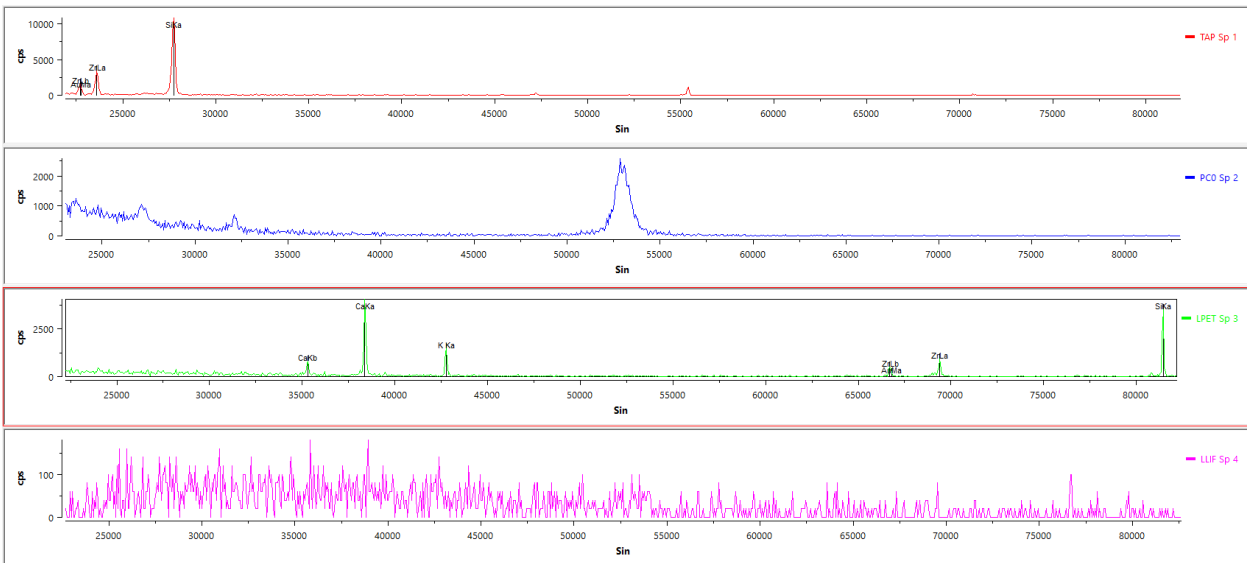
REE, Zr, and Nb Phases



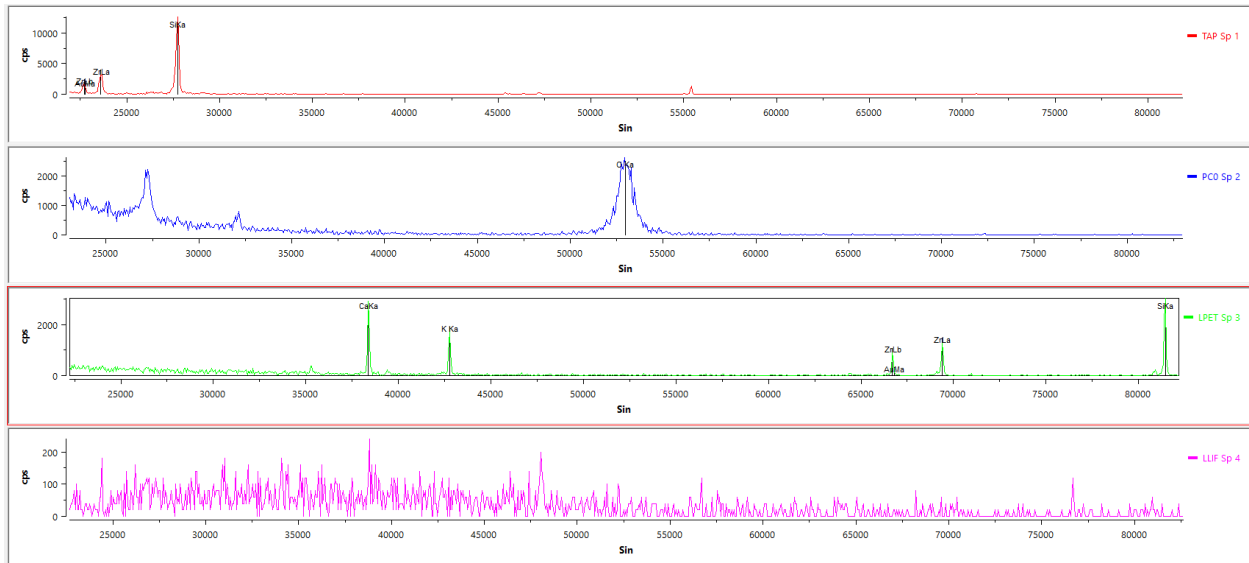
SWMEB Test_2- Aqualite



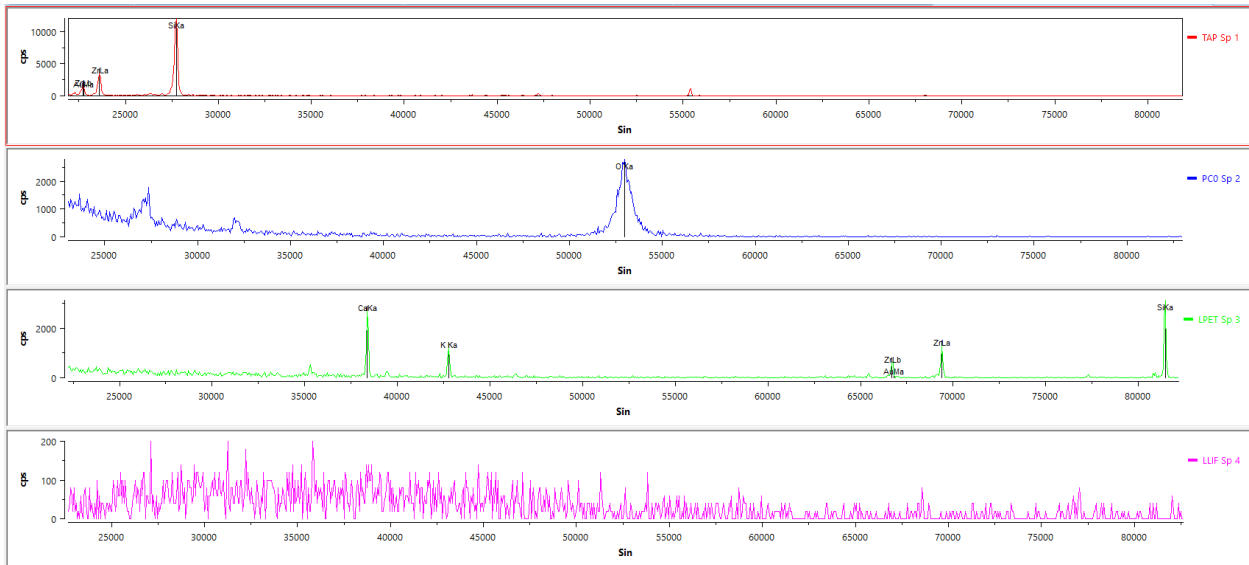
SWMEB Test_3- Sergevanite



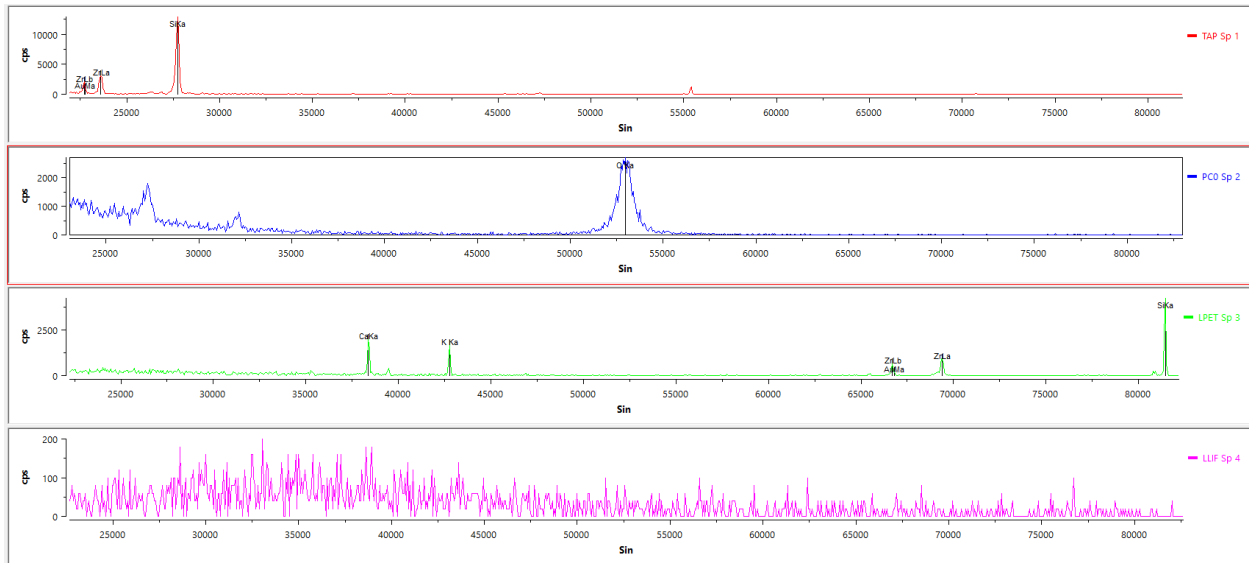
SWMEB Test_4- Aqualite



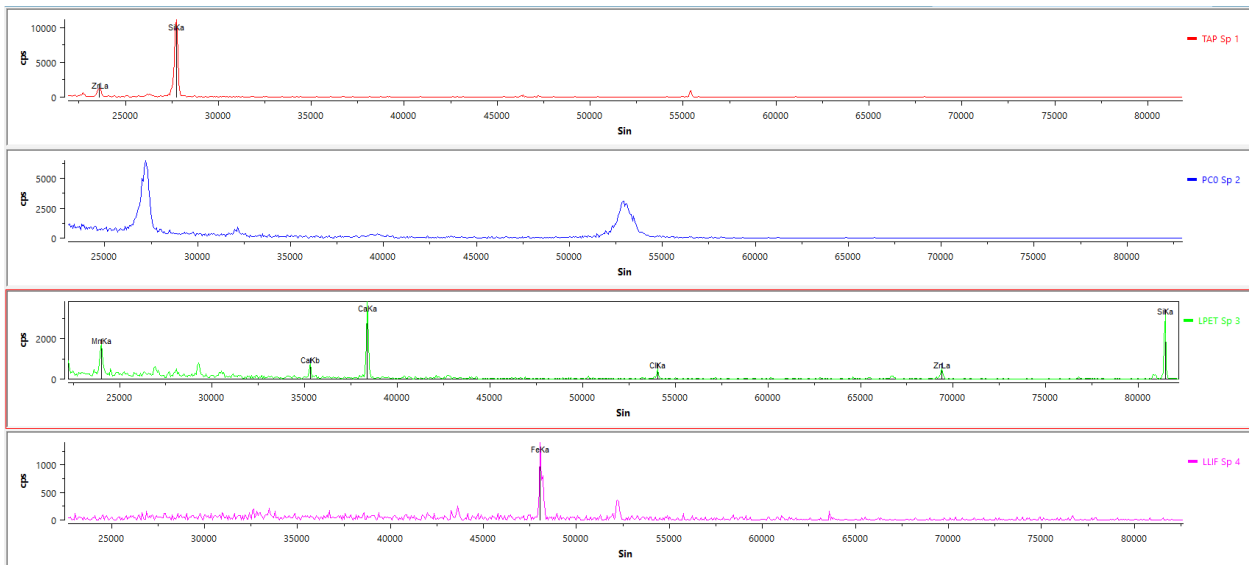
SWMEB Test_5- Aqualite



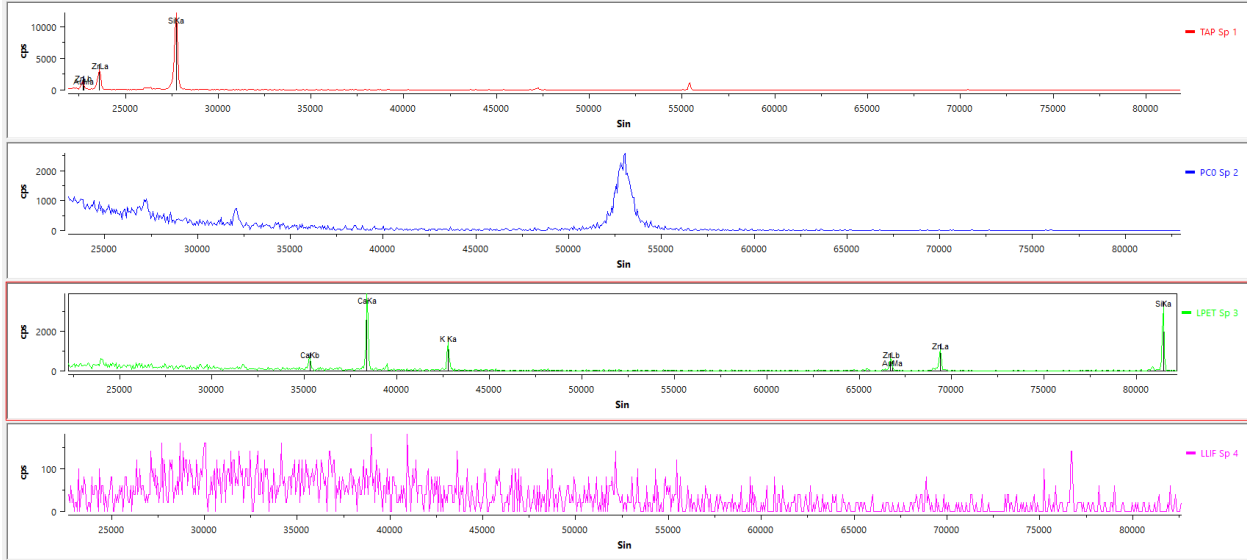
SWMEB Test_6- Aqualite



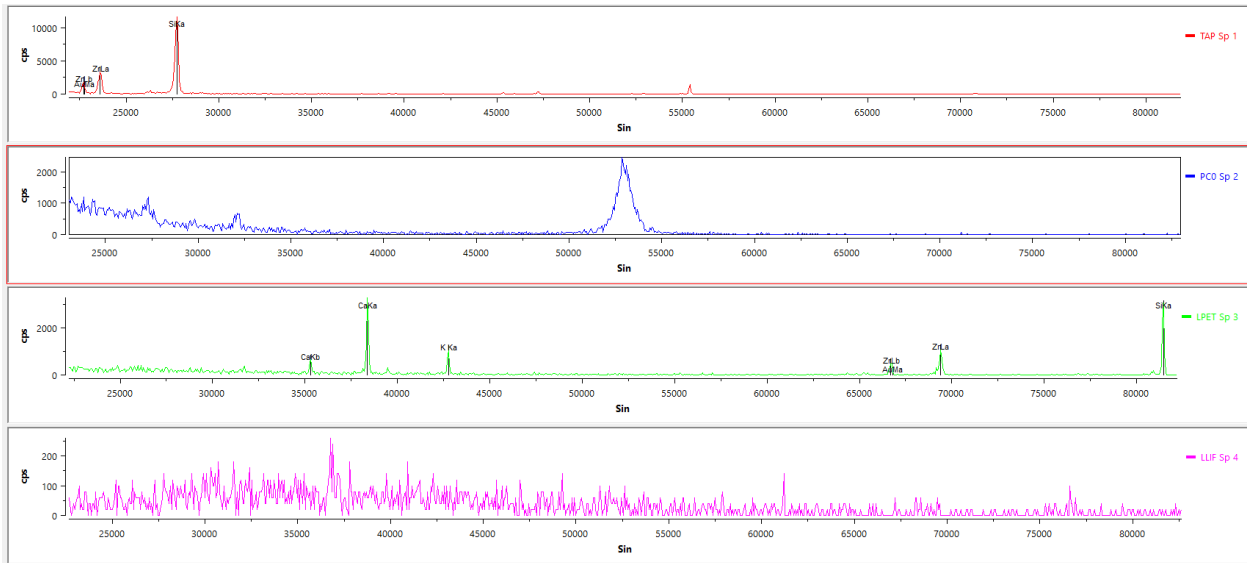
SWMEB Test_7- Aqualite



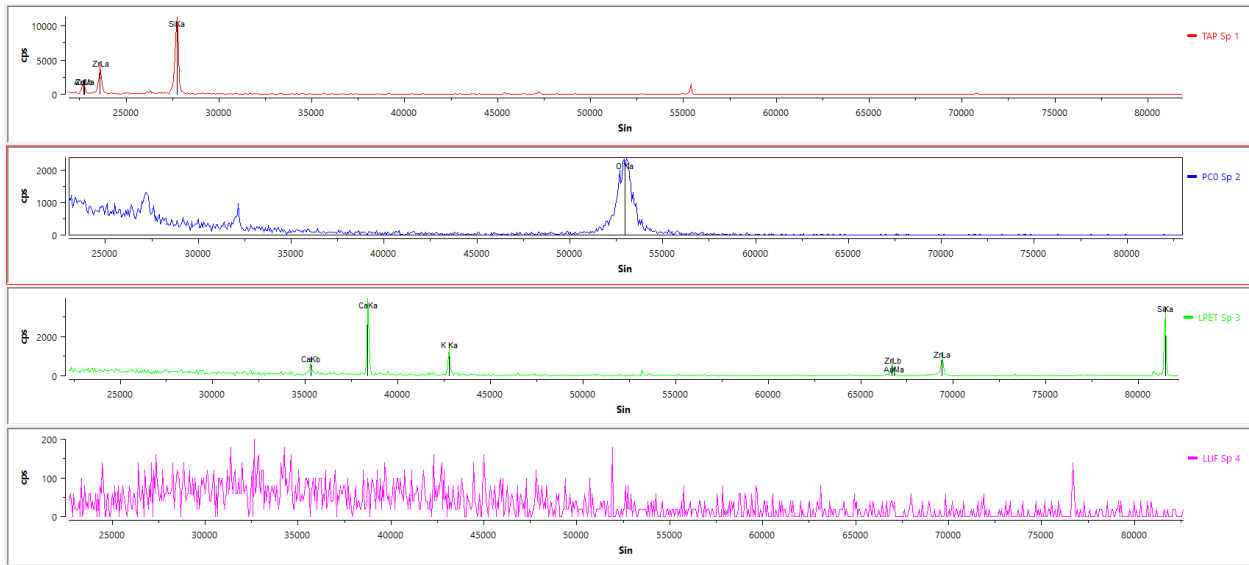
SWMEB Test_8- Sergevanite



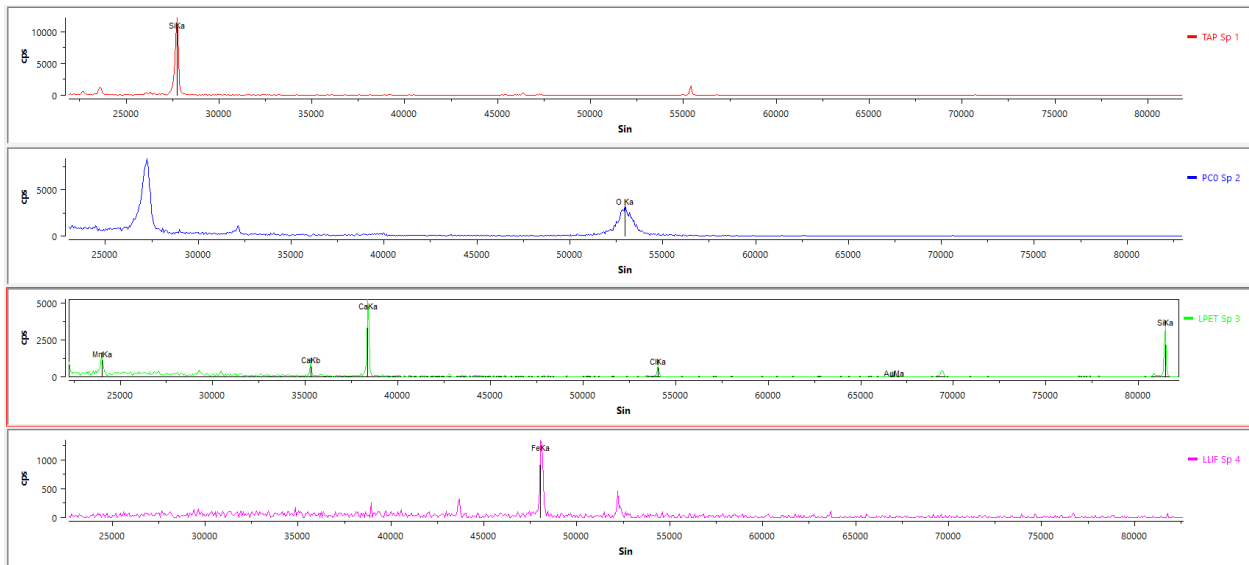
SWMEB Test_9- Aqualite



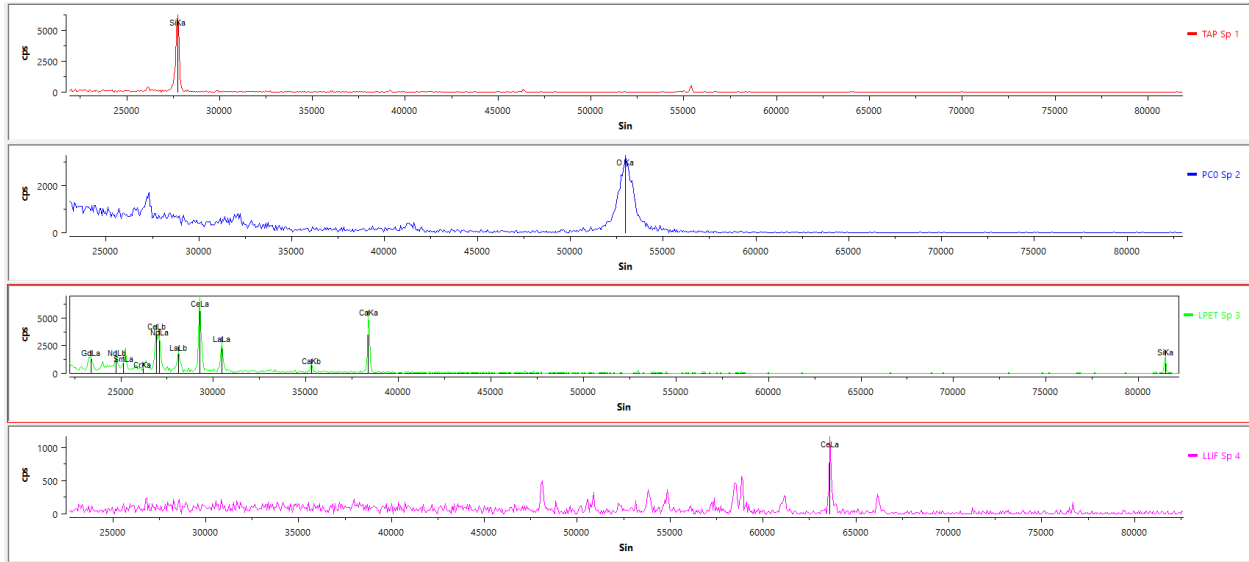
SWMEB Test_10- Aqualite



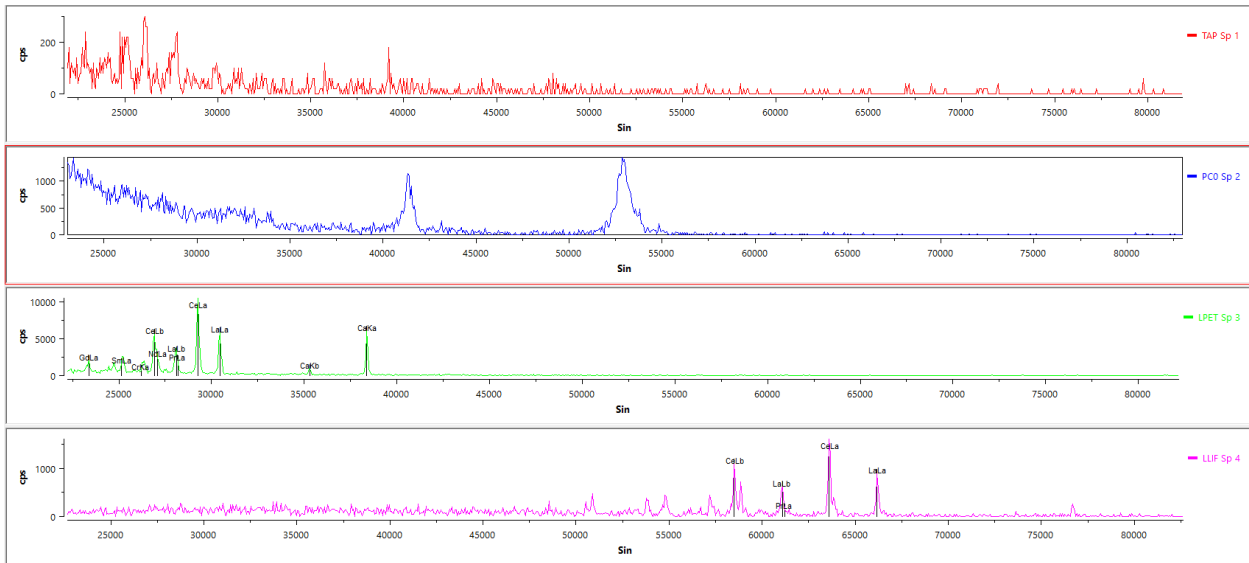
SWMEB Test_11- Aqualite



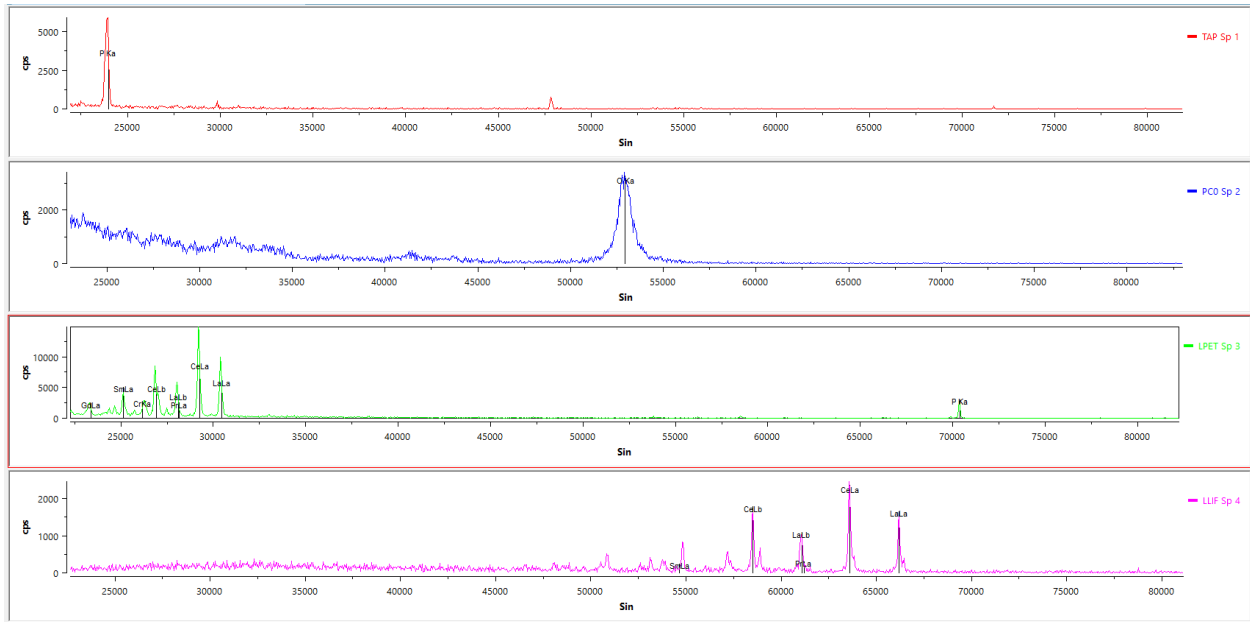
SWMEB Test_12- Sergevanite



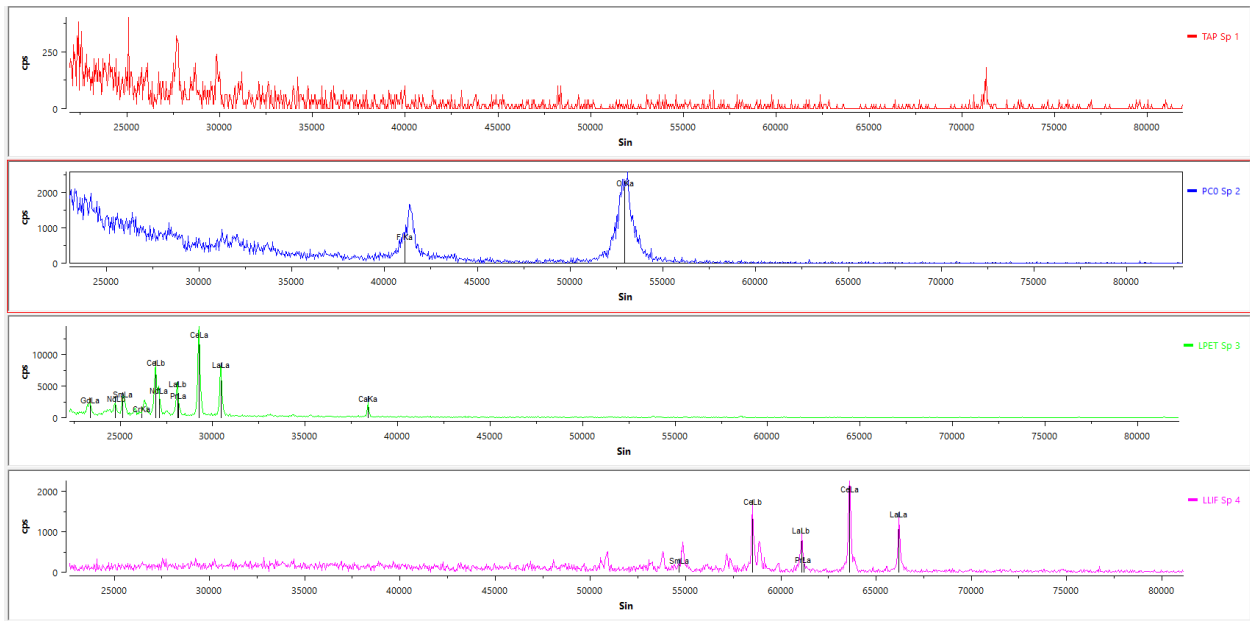
SWMEB_1 Test_18- Unknown REE Mixed Phase



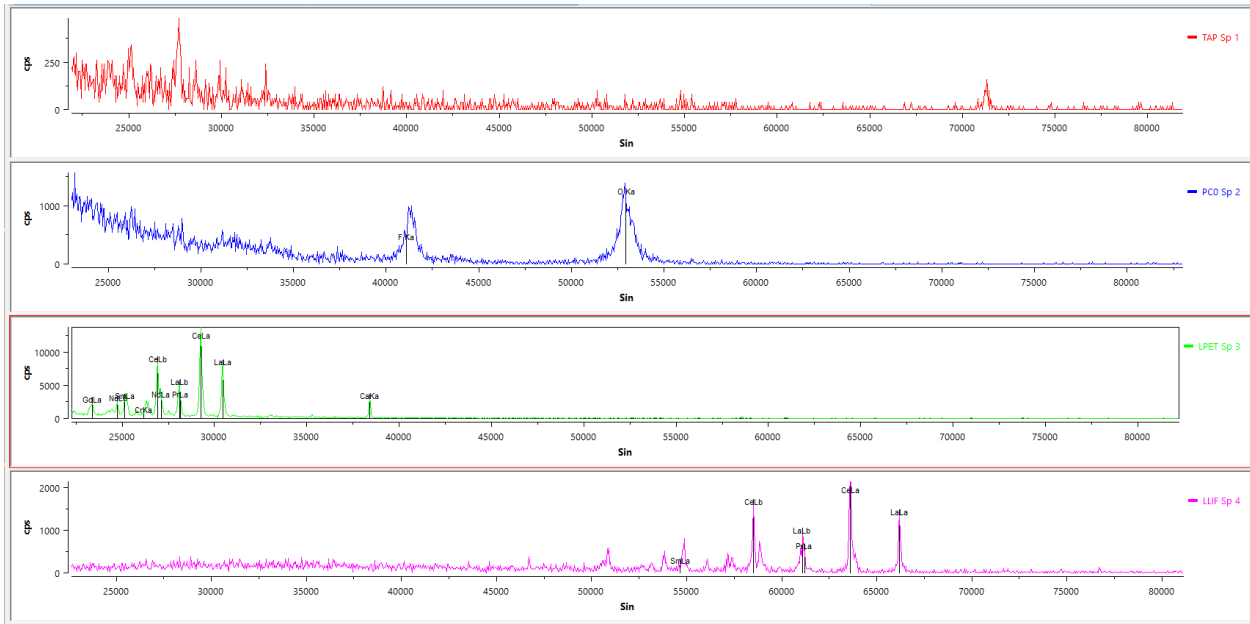
SWMEB_1 Test_22- Bastnäsit



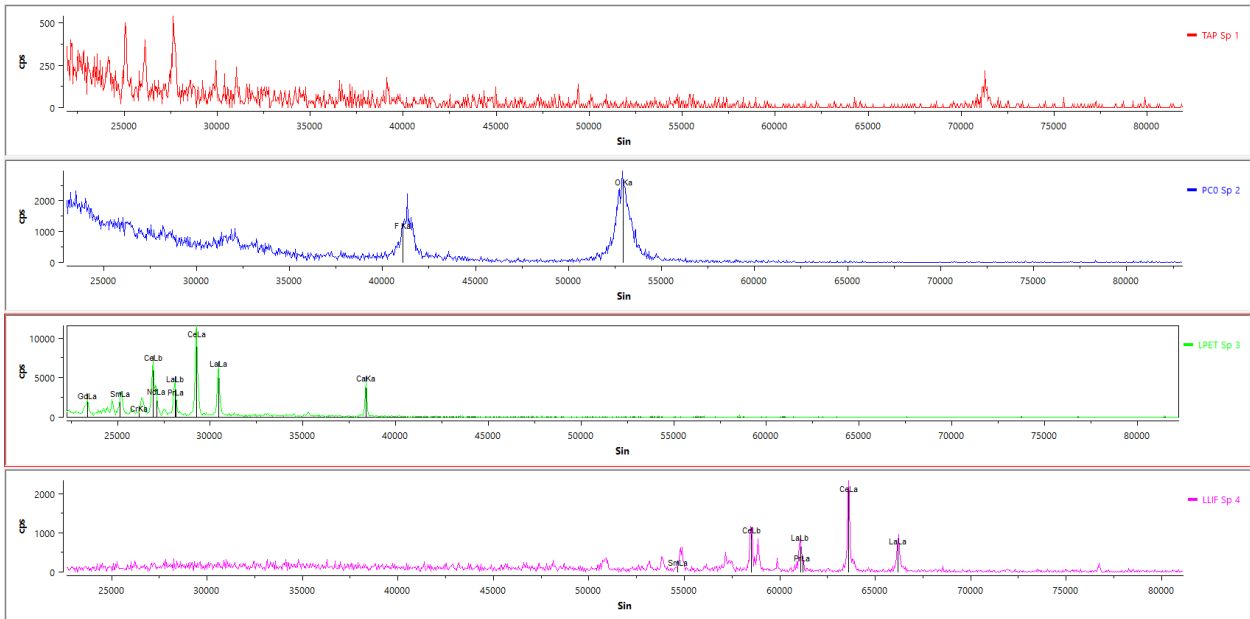
SWMEB-1-REE_1- Monazite



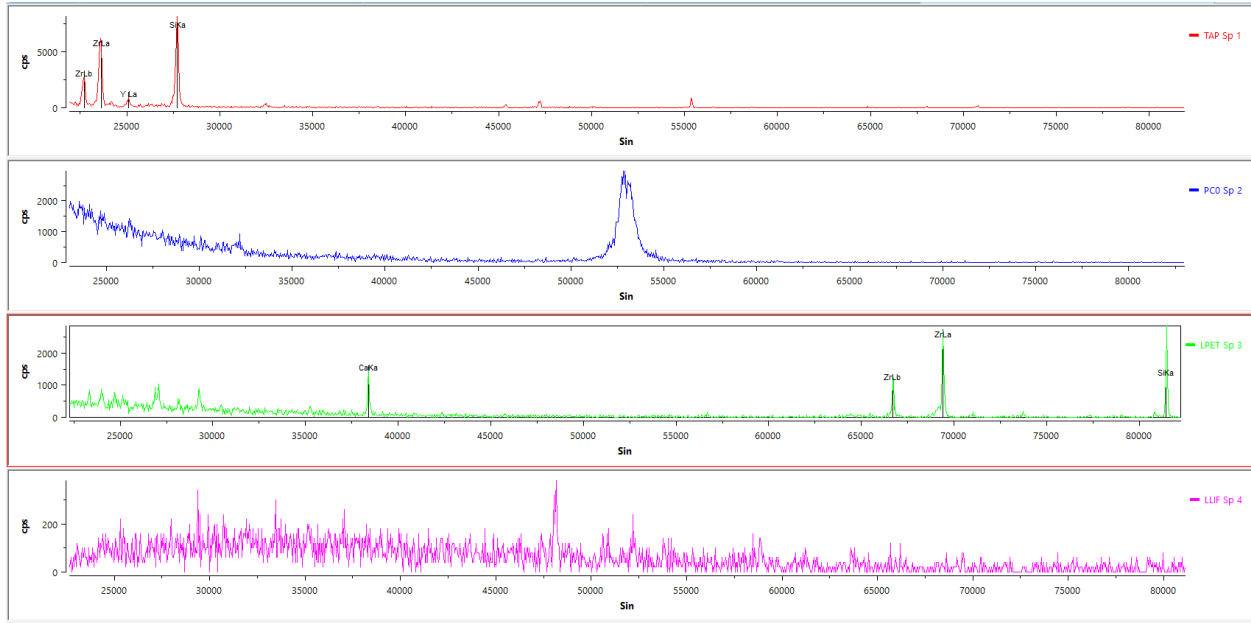
S-WMEB-1-REE_2- Bastnäsite



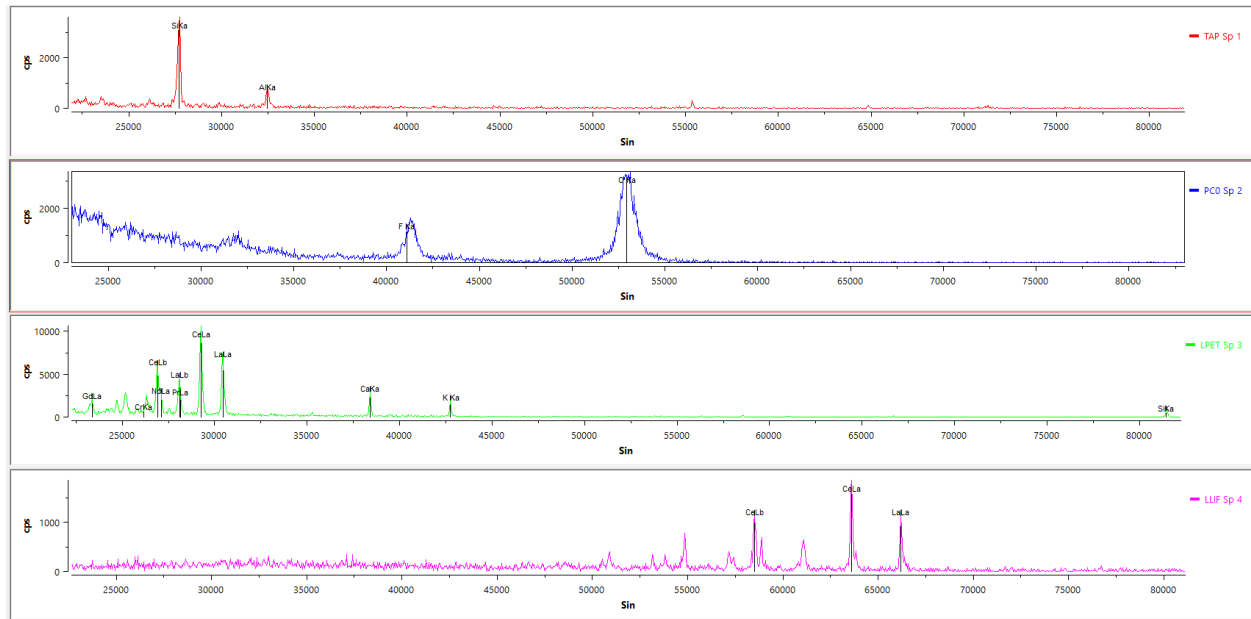
S-WMEB-1-REE_3- Bastnäsite



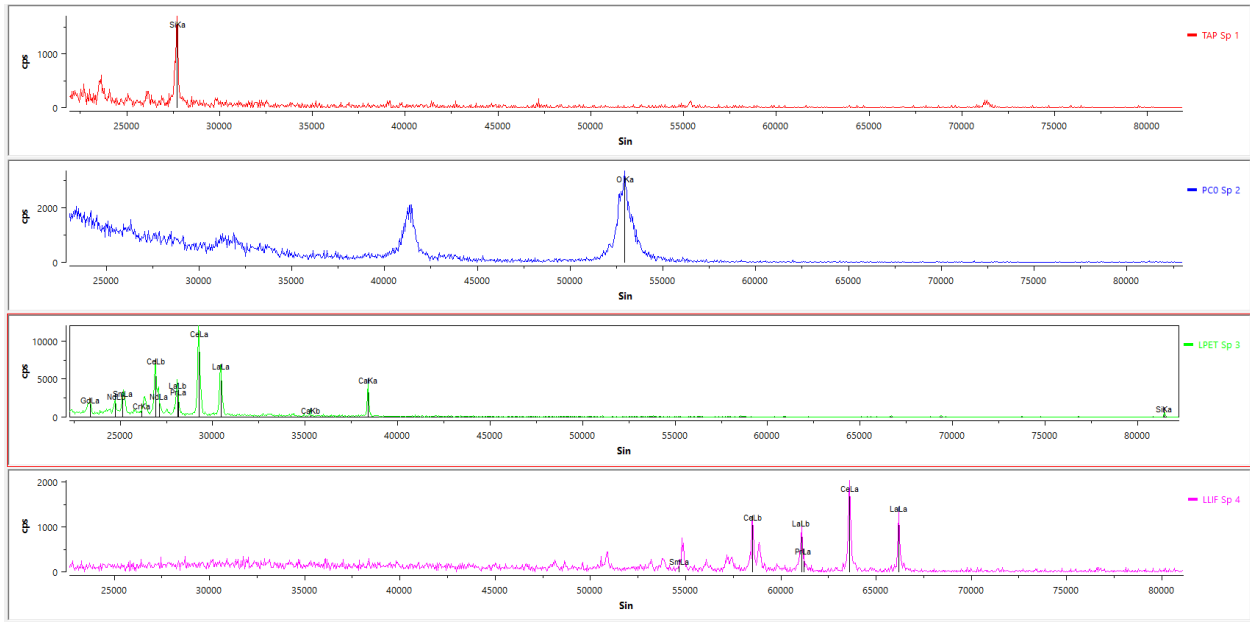
S-WMEB-1-REE_4- Bastnäsite



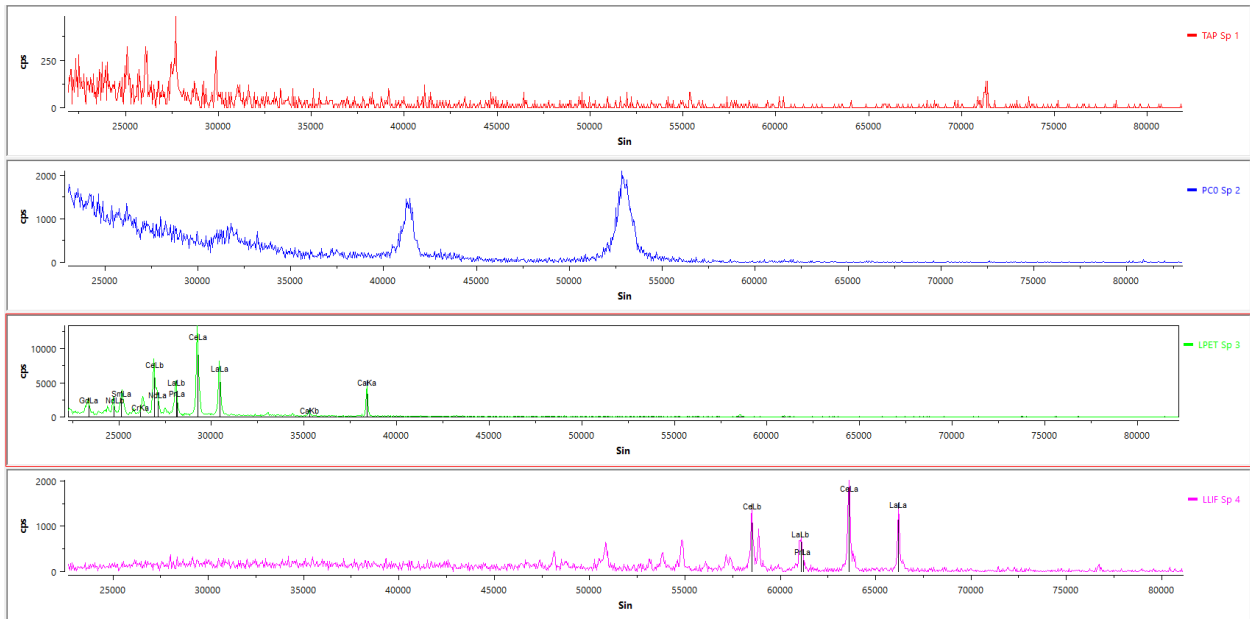
S-WMEB-1-REE_5- Calciocatapleite



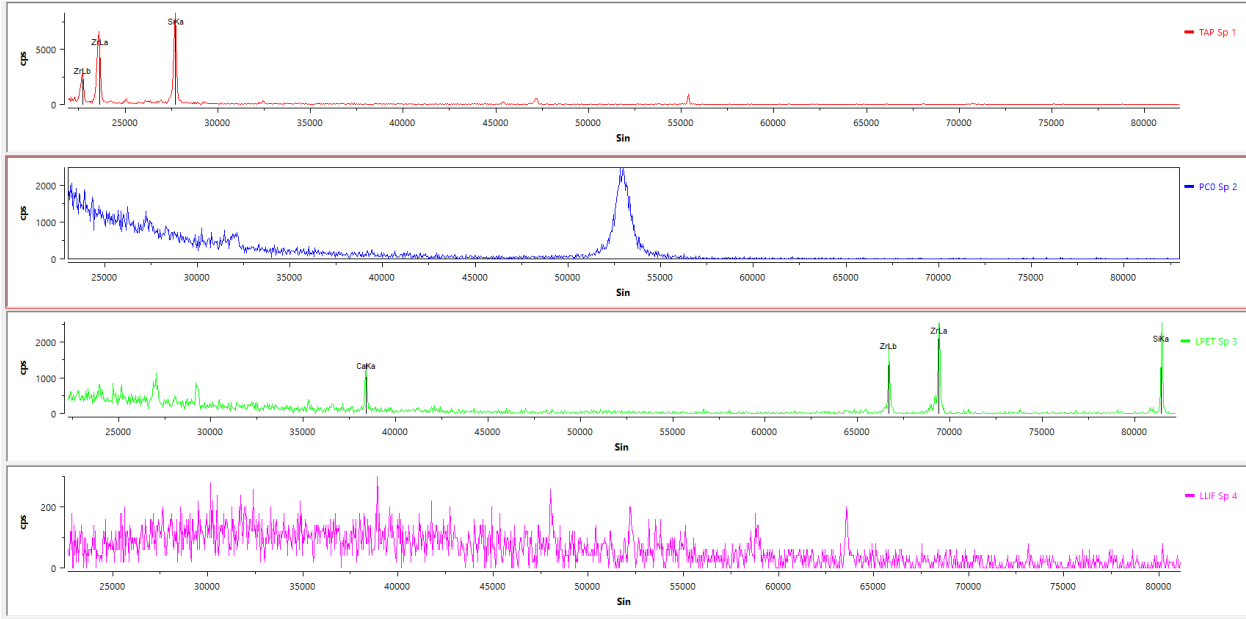
S-WMEB-2-REE_1- Bastnäsit Mixed Phase



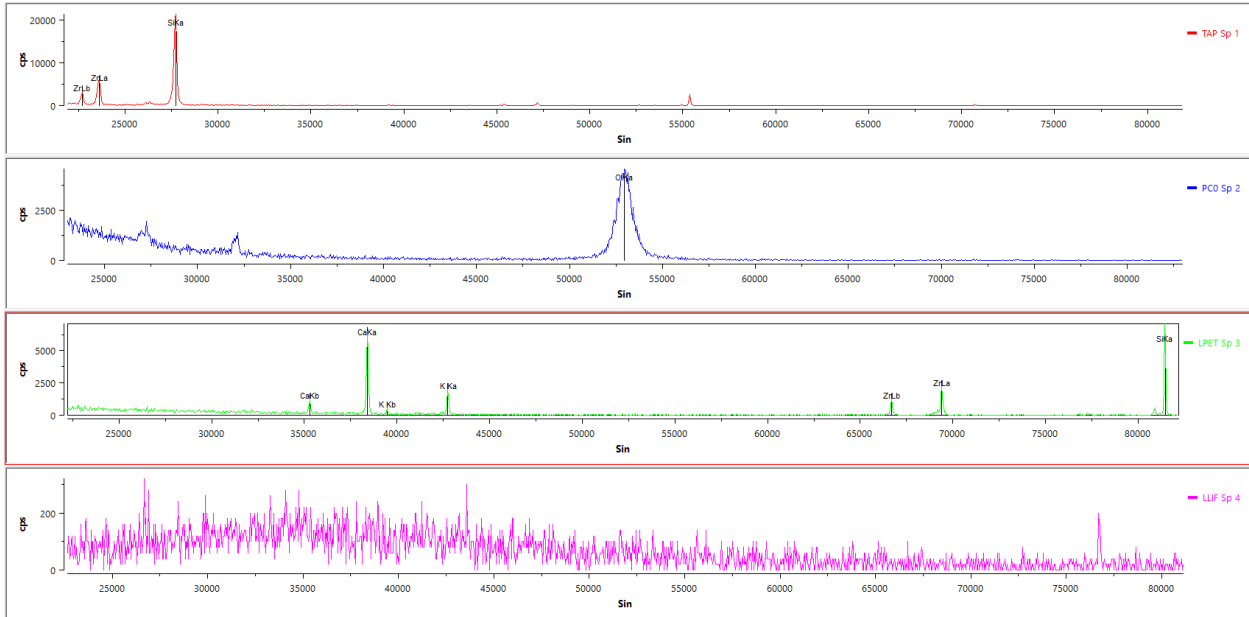
S-WMEB-2-REE_2- Bastnäsite



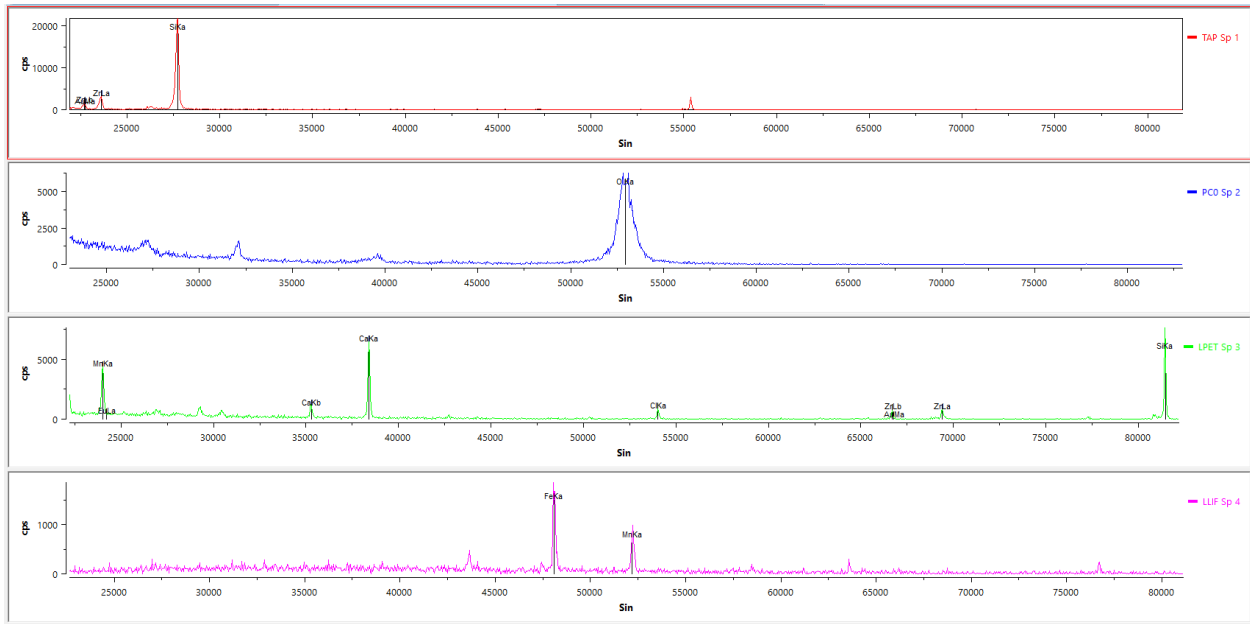
S-WMEB-2-REE_3- Bastnäsite



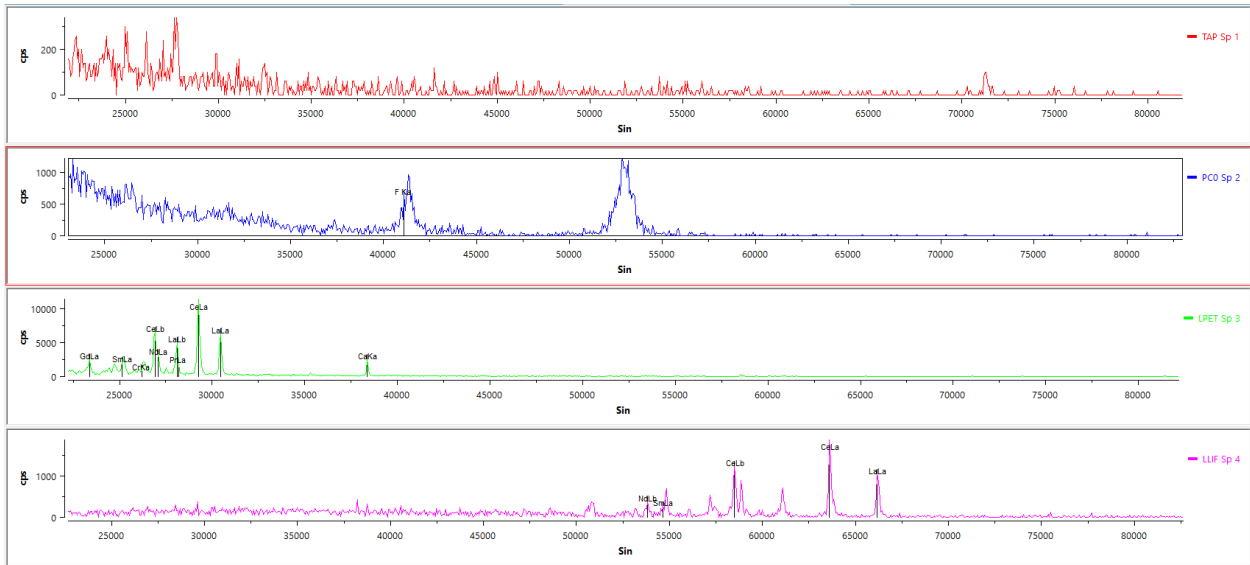
S-WMEB-2-REE_4- Calciocatapleite



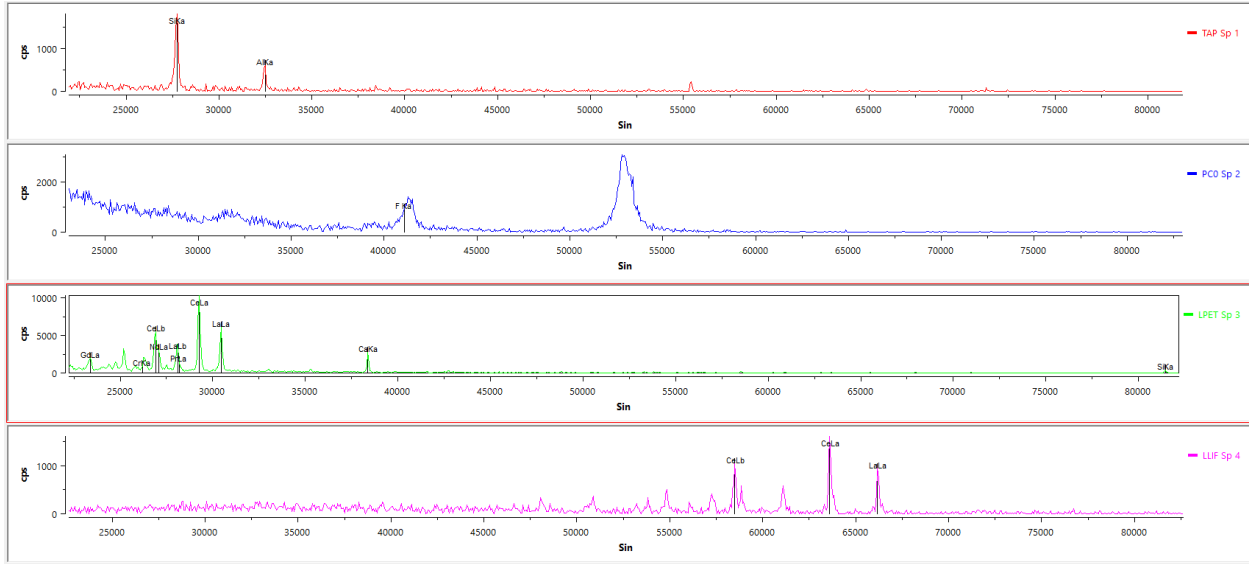
S-WMEB-03_2- Aqualite



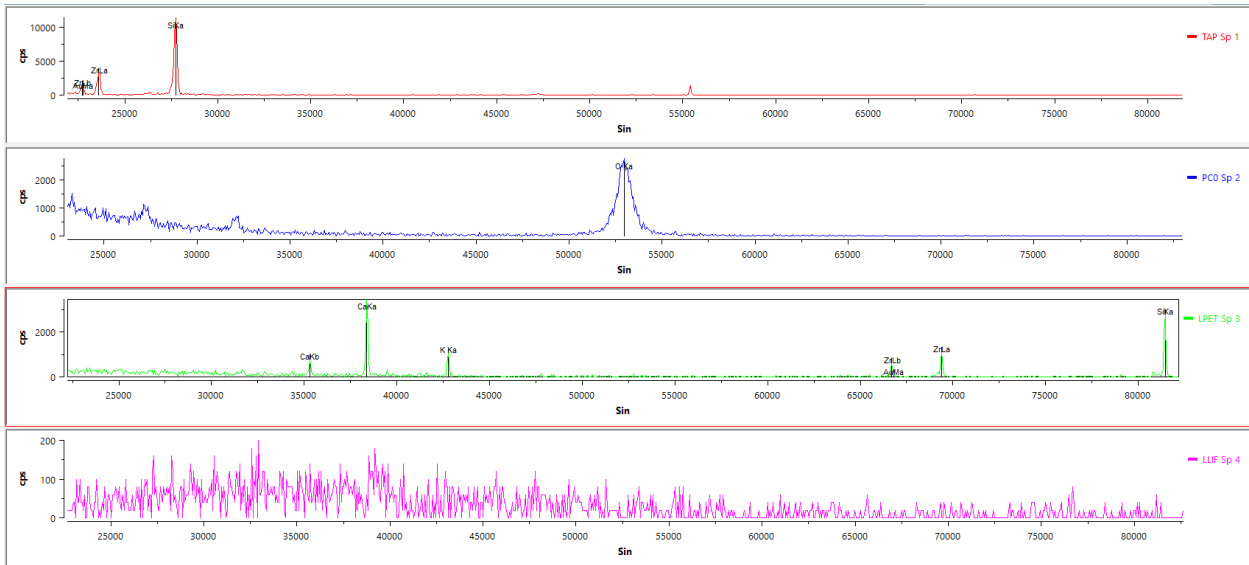
S-WMEB-03_3- Sergevanite



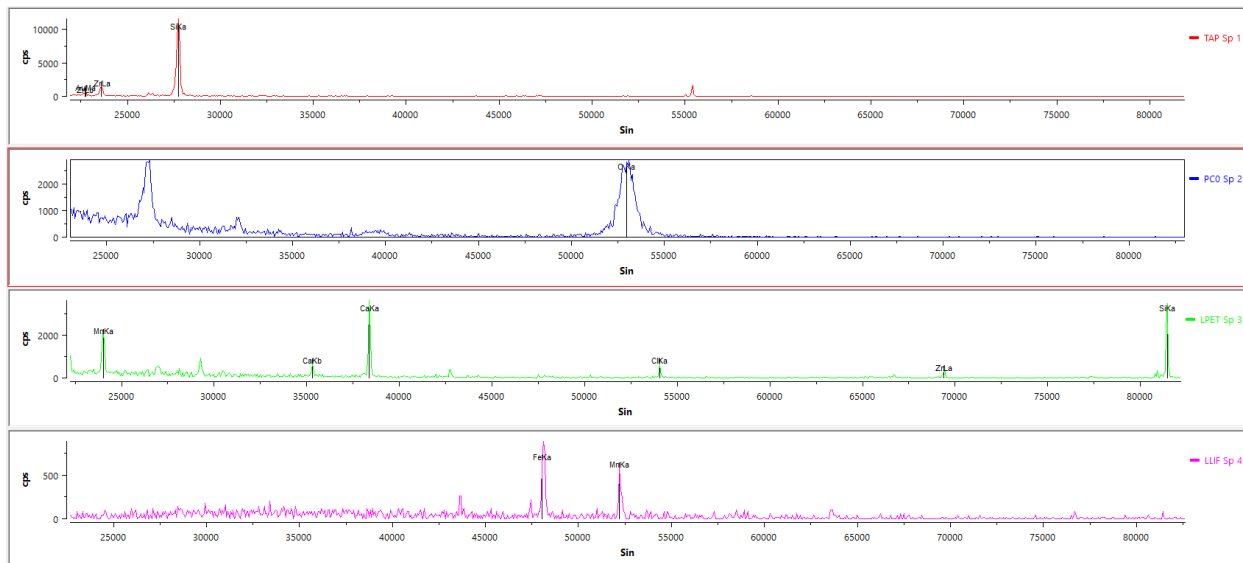
SWMEB_4 Test_1- Bastnäsite



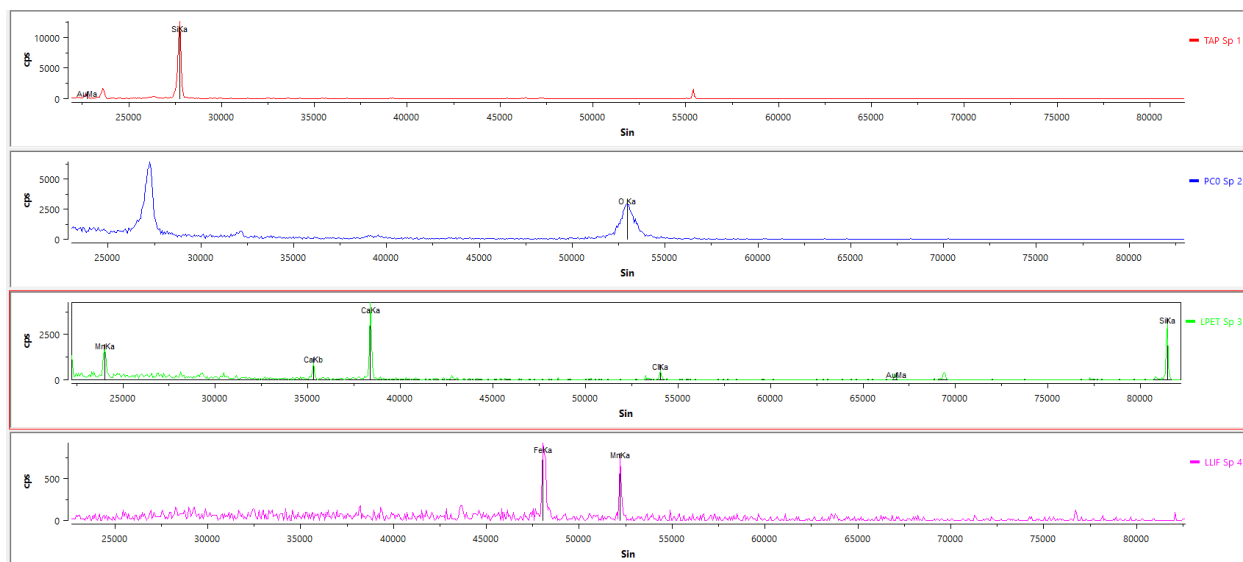
SWMEB_4 Test_2- Bastnäsite Mixed Phase



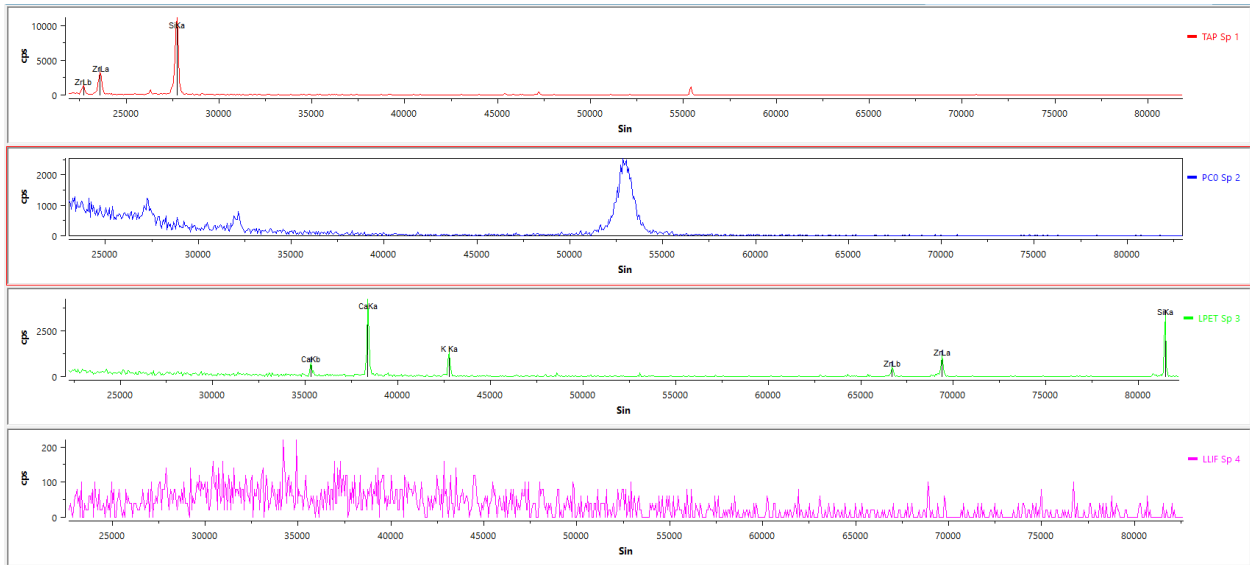
SWMEB_4 Test_3- Aqualite



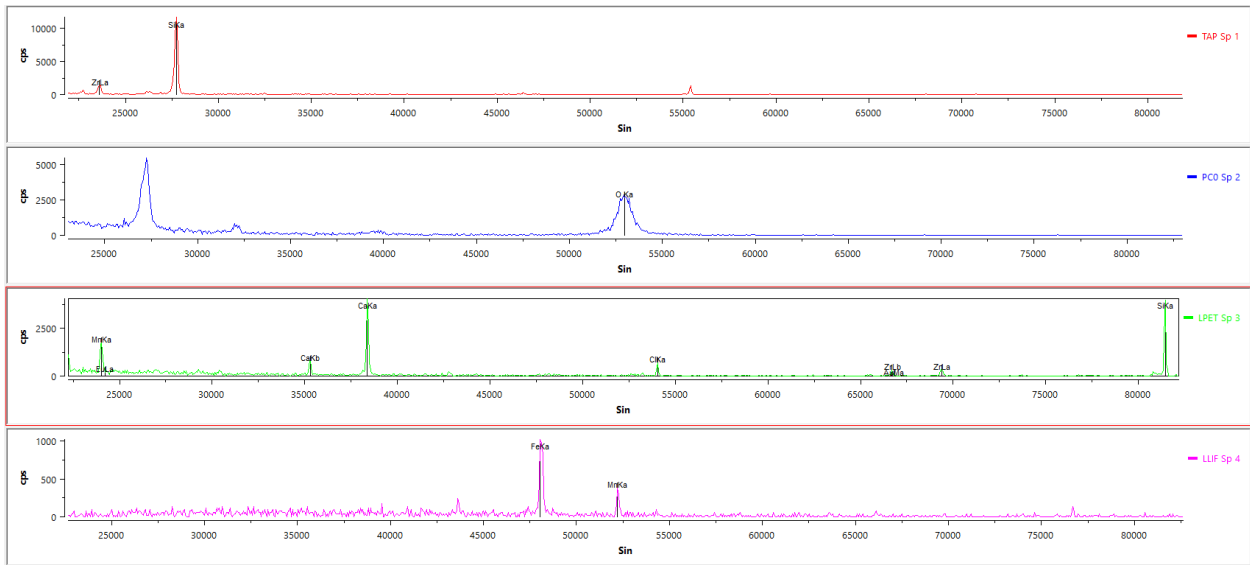
SWMEB_4 Test_4- Sergevanite



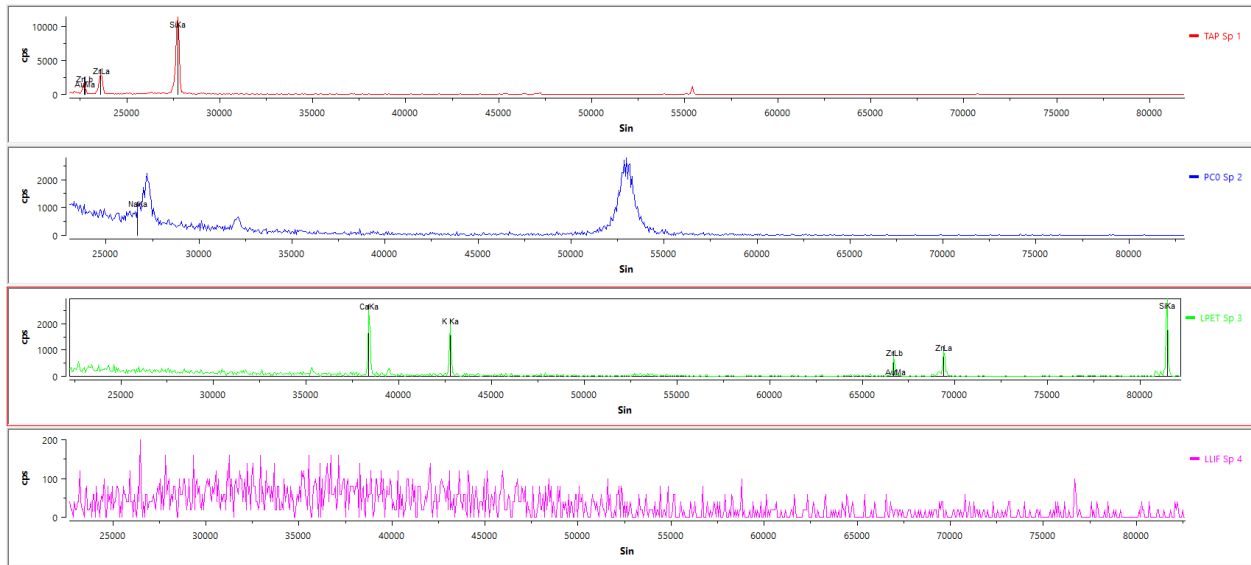
SWMEB_4 Test_5- Sergevanite



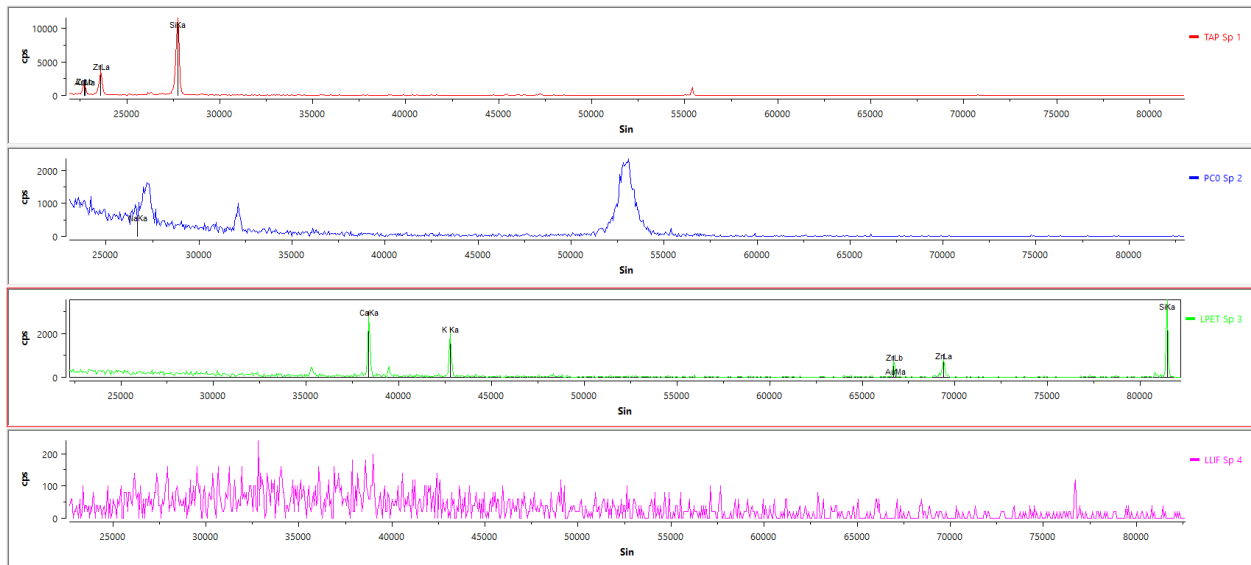
SWMEB_4 Test_6- Aqualite



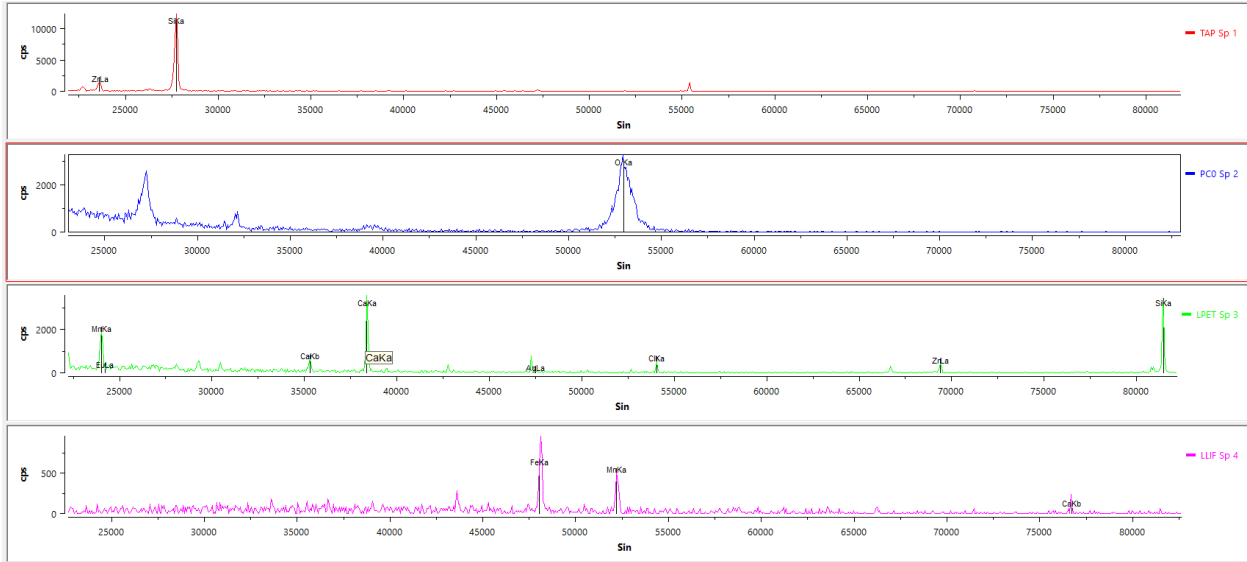
SWMEB_4 Test_7- Sergevanite



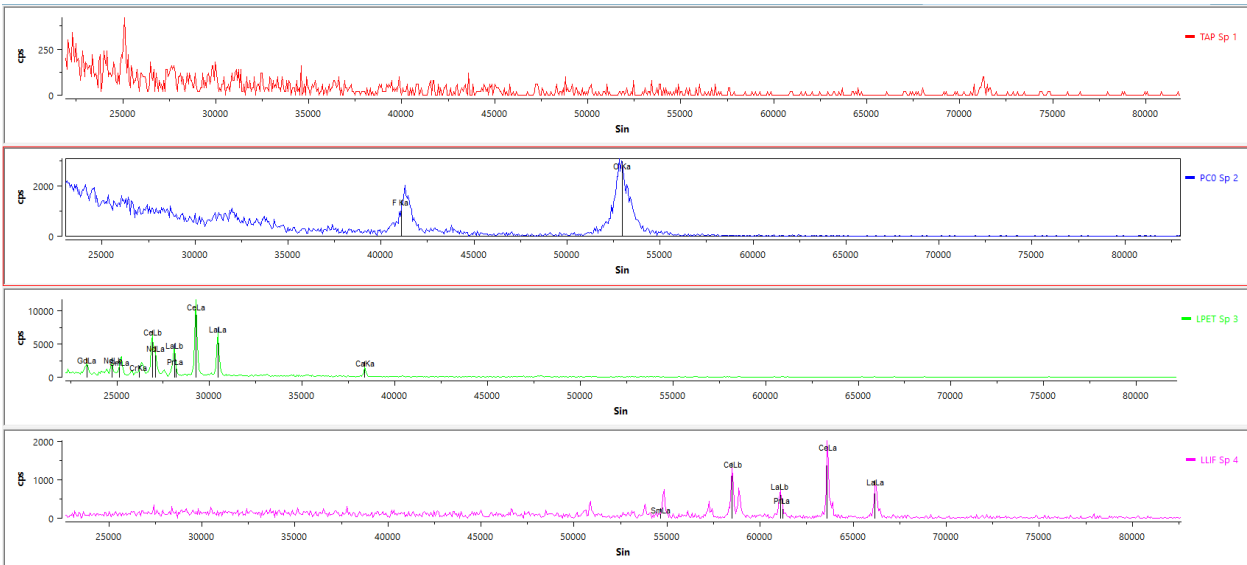
SWMEB_4 Test_8- Aqualite



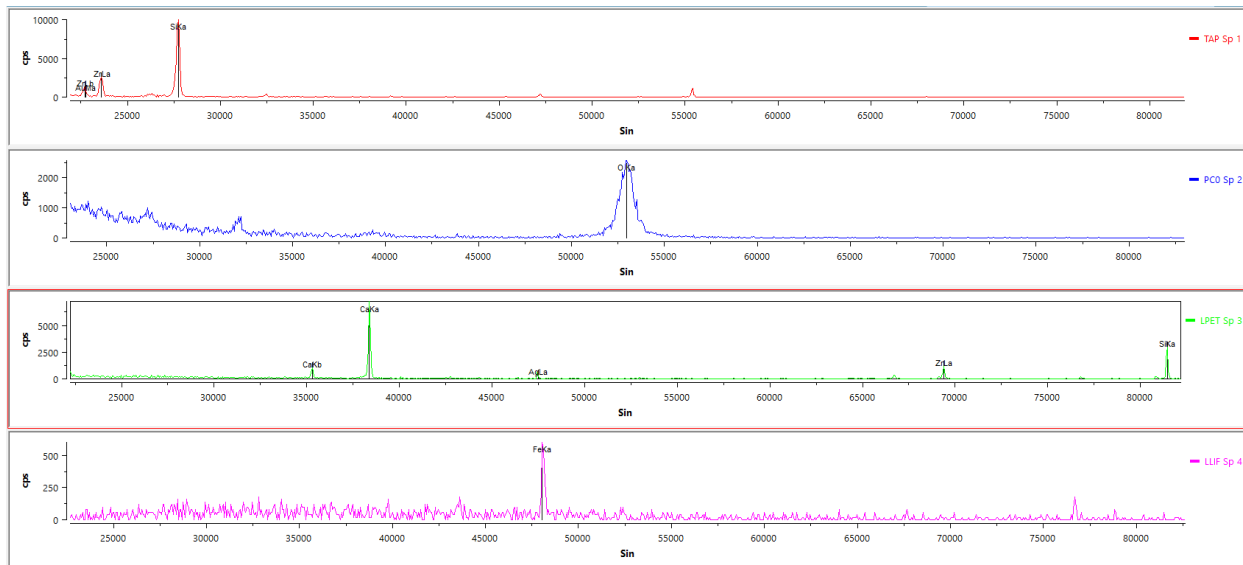
SWMEB_4 Test_9- Aqualite



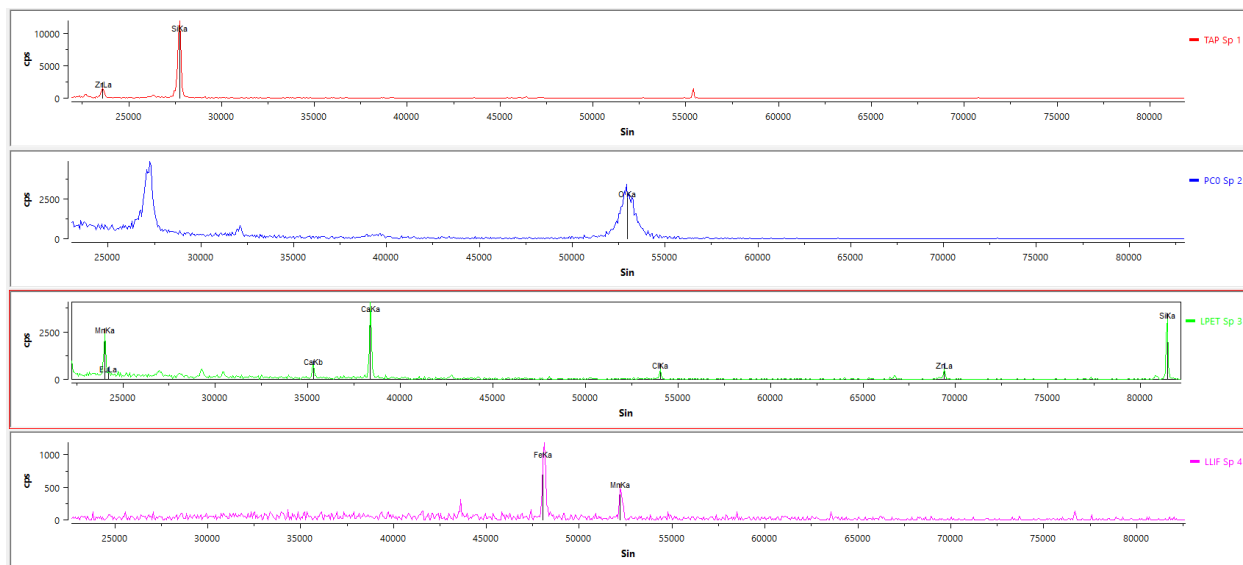
SWMEB_4 Test_10- Sergevanite



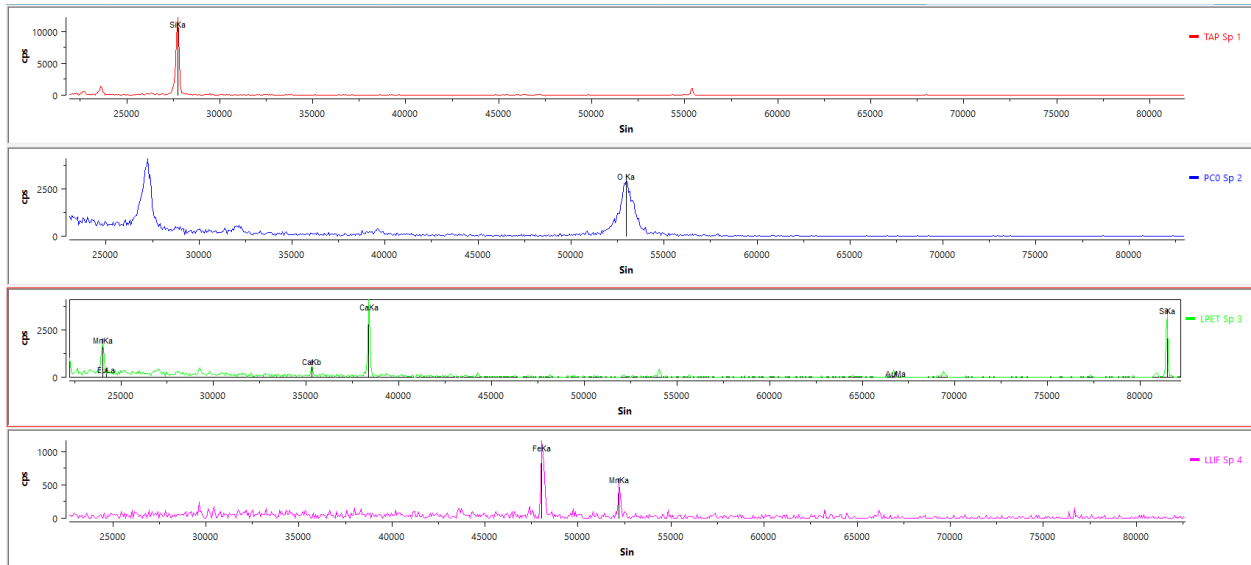
SWMEB_5 Test_1- Bastnäsité



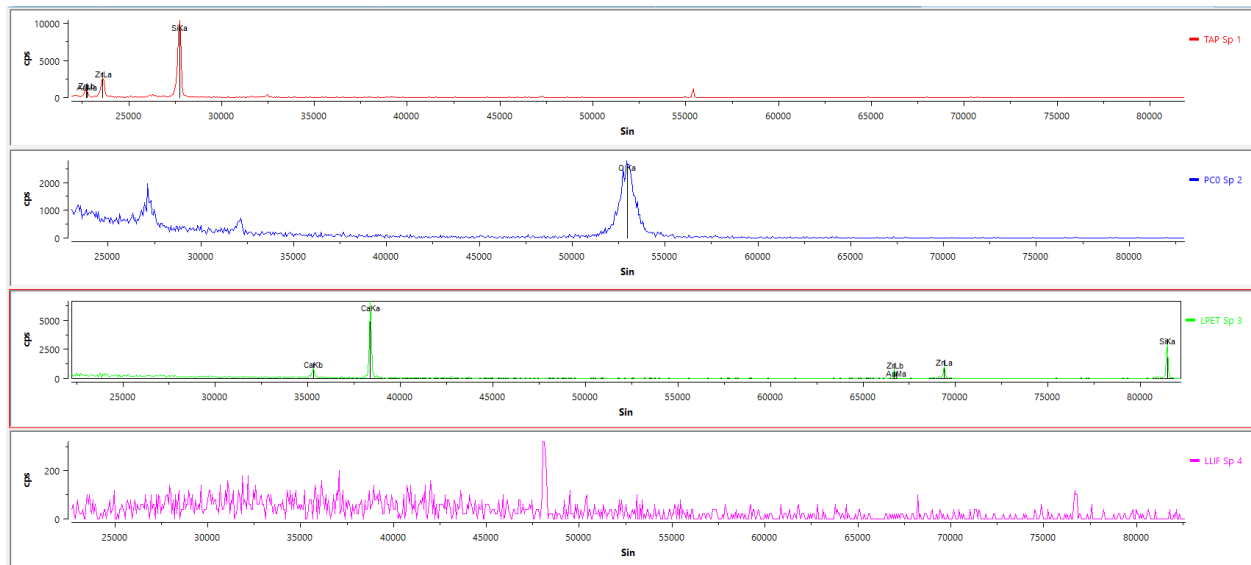
SWMEB_5 Test_3- Kerimasite



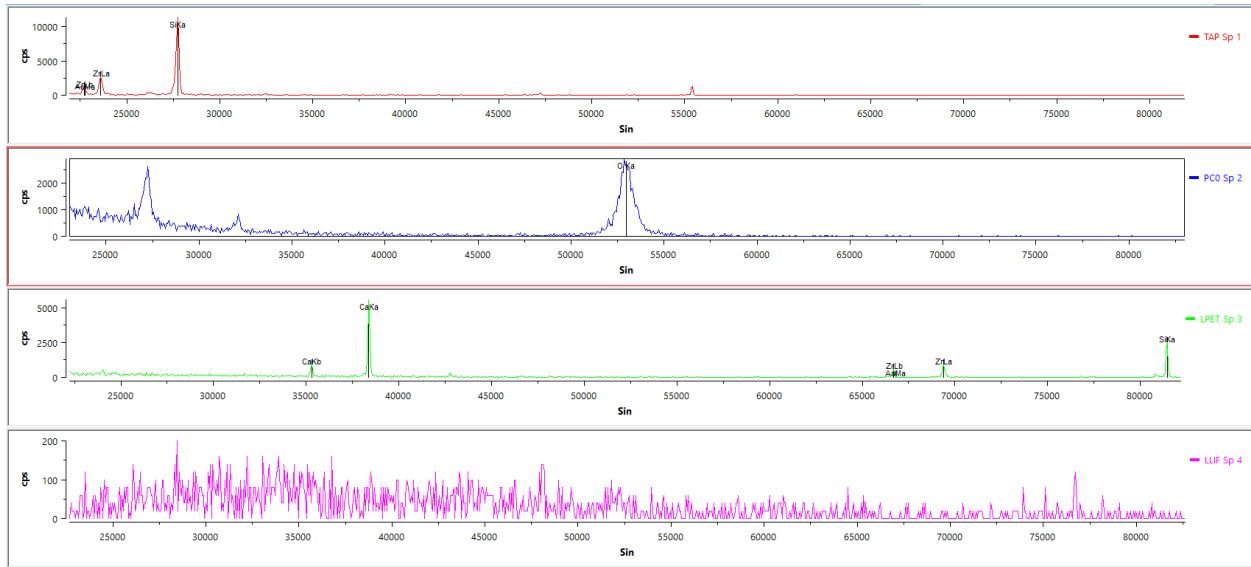
SWMEB_5 Test_5- Sergevanite



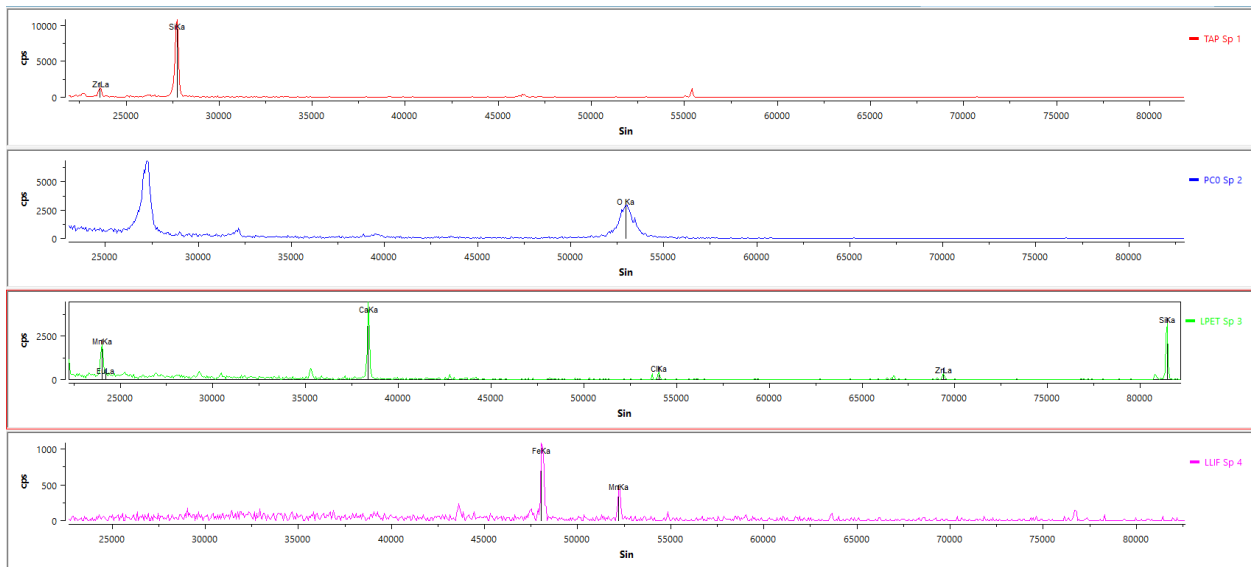
SWMEB_5 Test_6- Sergevanite



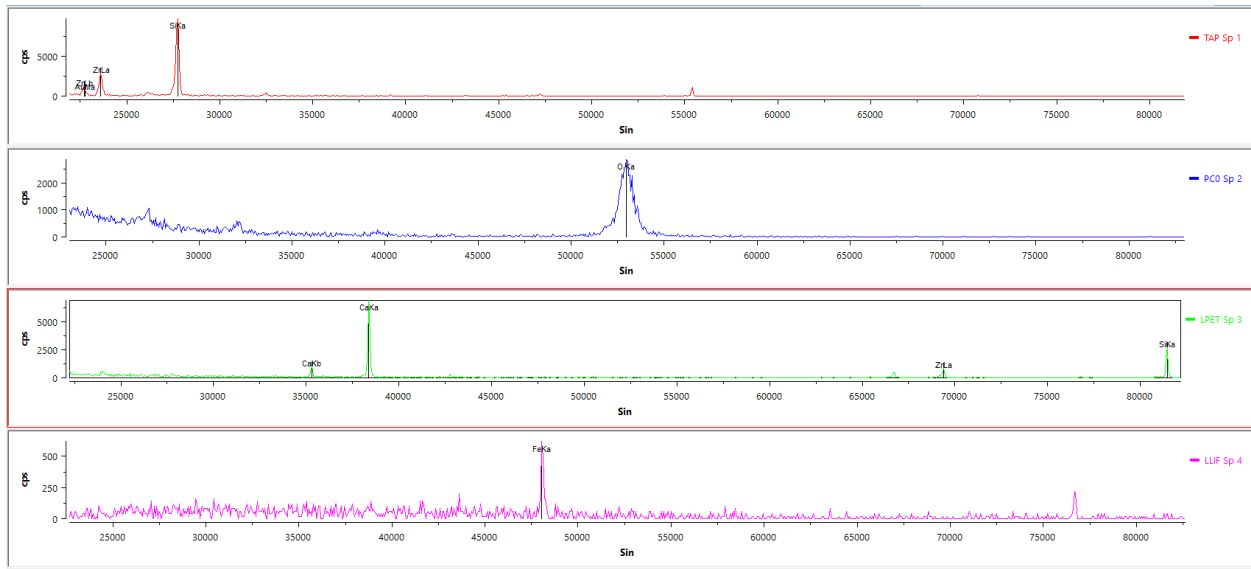
SWMEB_5 Test_10- Calcioatapleite



SWMEB_5 Test_11- Calcioatpleiite

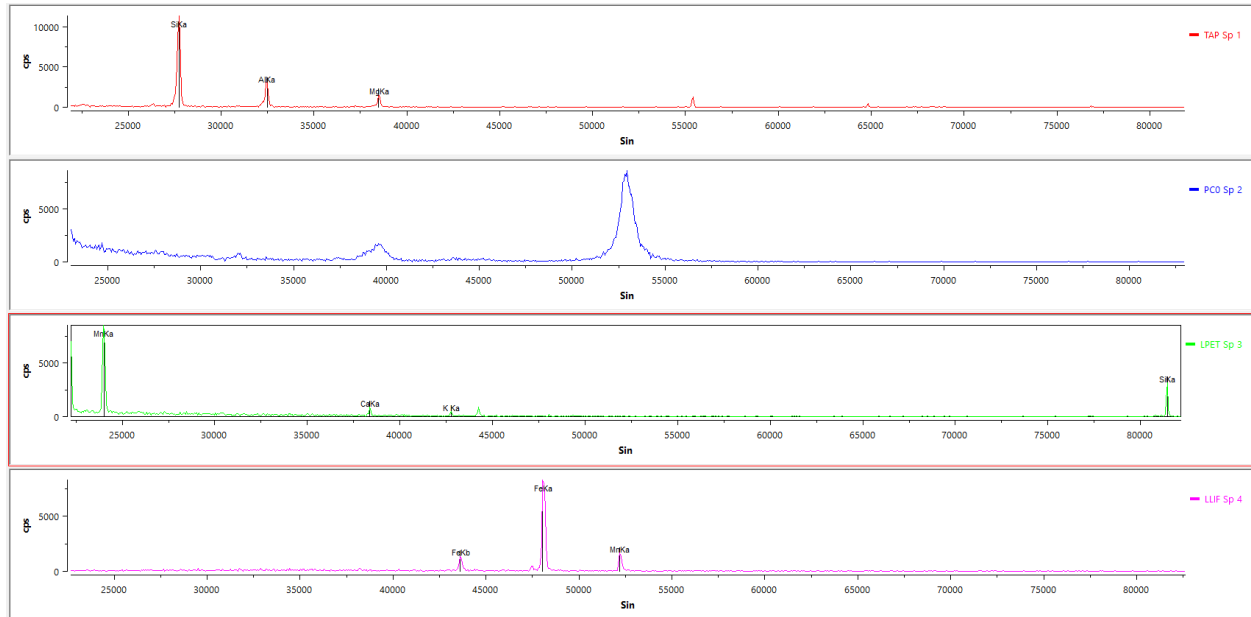


SWMEB_5 Test_12- Sergevanite



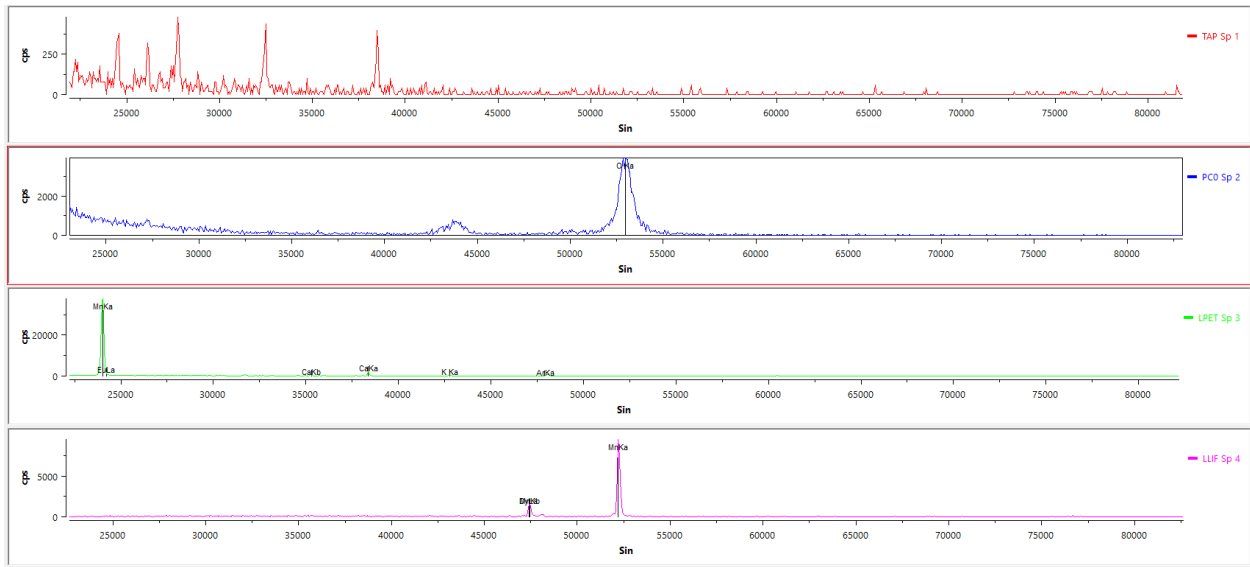
SWMEB_5 Test_14- Kerimasite

Amphiboles



S-WMEB-03_6- Hornblende

Oxides



SWMEB_1 Test_16- Pyrolusite