

Supplementary Information for:

“Rapid and Efficient Mechanochemical Synthesis of Alkali and Alkaline Earth Molybdates”

Andres Lara-Contreras, Patrick Julien, Jennifer Scott, and Emily C. Corcoran

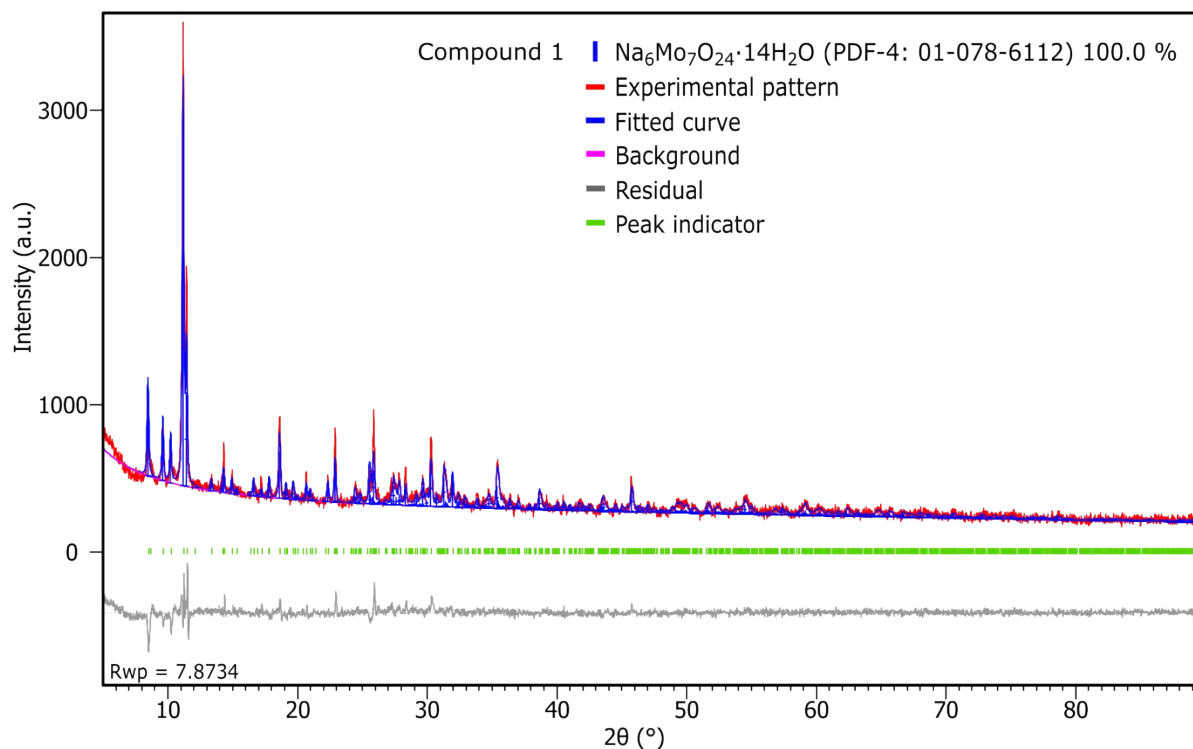


Figure S1. X-ray diffractogram of Compound 1.

Table S1. Statistical parameters of Rietveld refinement of Compound 1.

Parameter	Value
GOF	1.46811
R _p	5.95356
R _{WP}	7.87341
R _{exp}	5.36296
d-statistic	0.39063
Specimen displacement [mm]	-0.232581

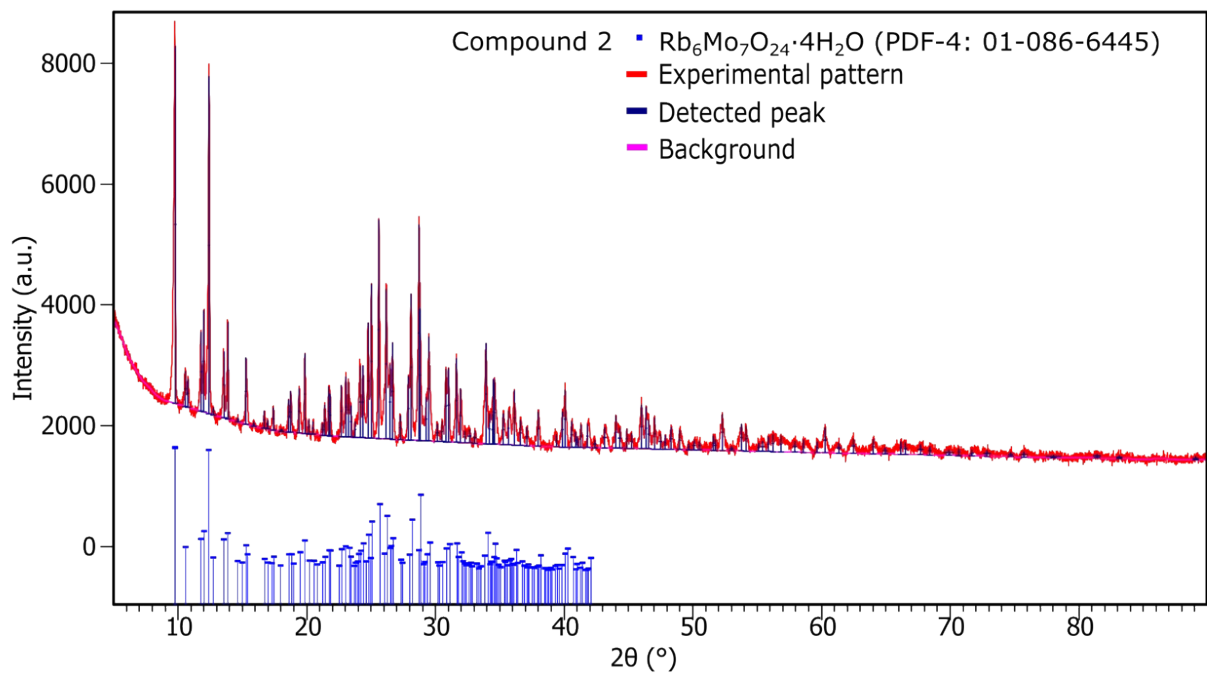


Figure S2. X-ray diffractogram of Compound 2.

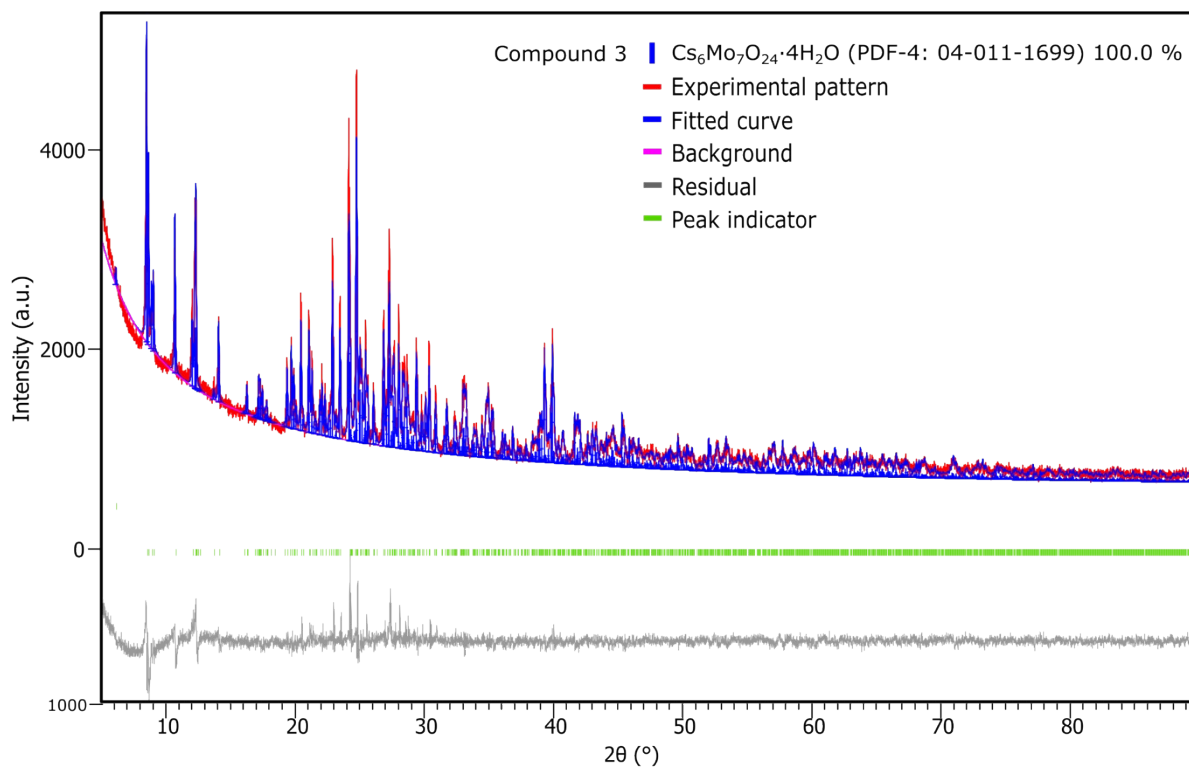


Figure S3. X-ray diffractogram of Compound 3.

Table S2. Statistical parameters of Rietveld refinement of Compound 3.

Parameter	Value
GOF	1.52886
R _p	3.38326
R _{WP}	4.45264
R _{exp}	2.91239
d-statistic	0.35869
Sample displacement [mm]	-0.058716

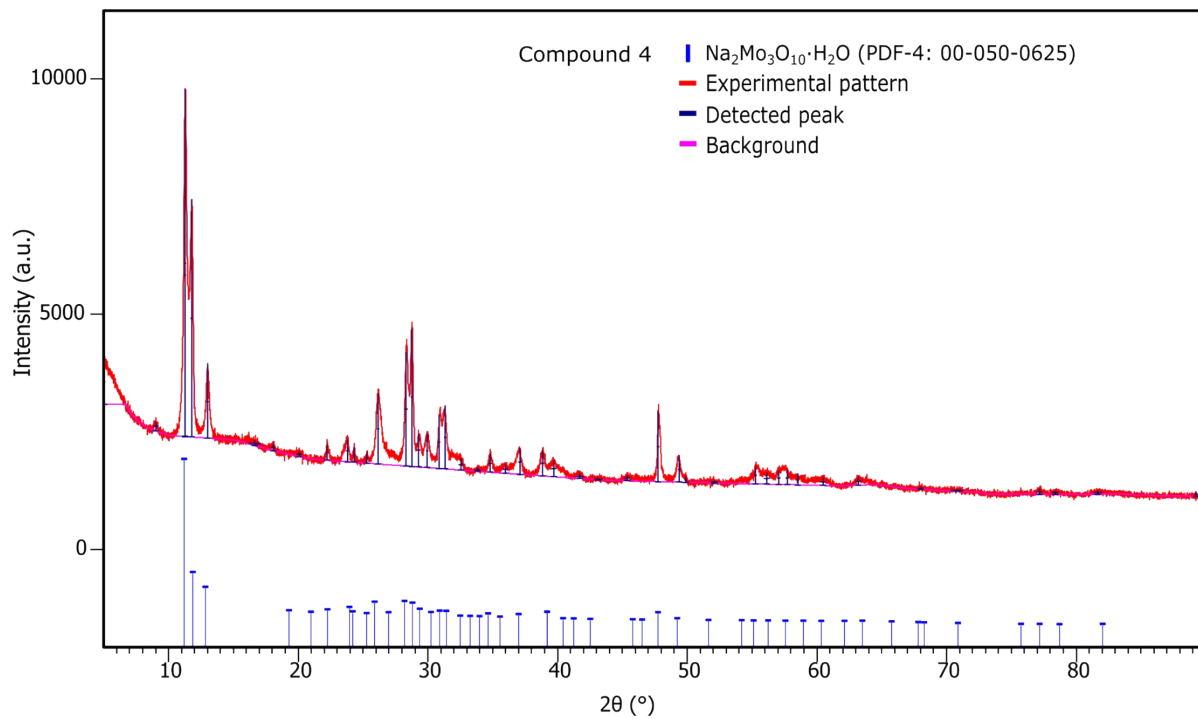


Figure S4. X-ray diffractogram of Compound 4.

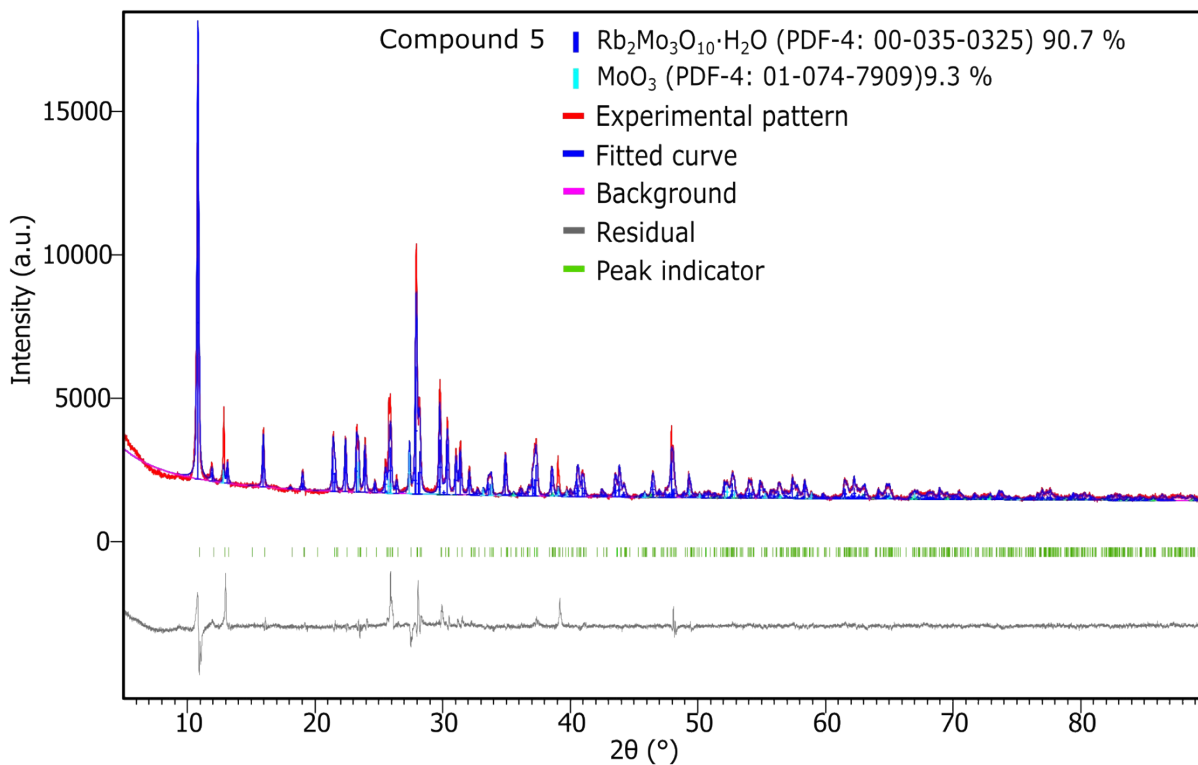


Figure S5. X-ray diffractogram of Compound 5.

Table S3. Statistical parameters of Rietveld refinement of Compound 5.

Parameter	Value
GOF	2.52723
R_p	3.60574
R_{WP}	5.68455
R_{exp}	2.24932
d-statistic	0.10722
Sample displacement [mm]	-0.124006

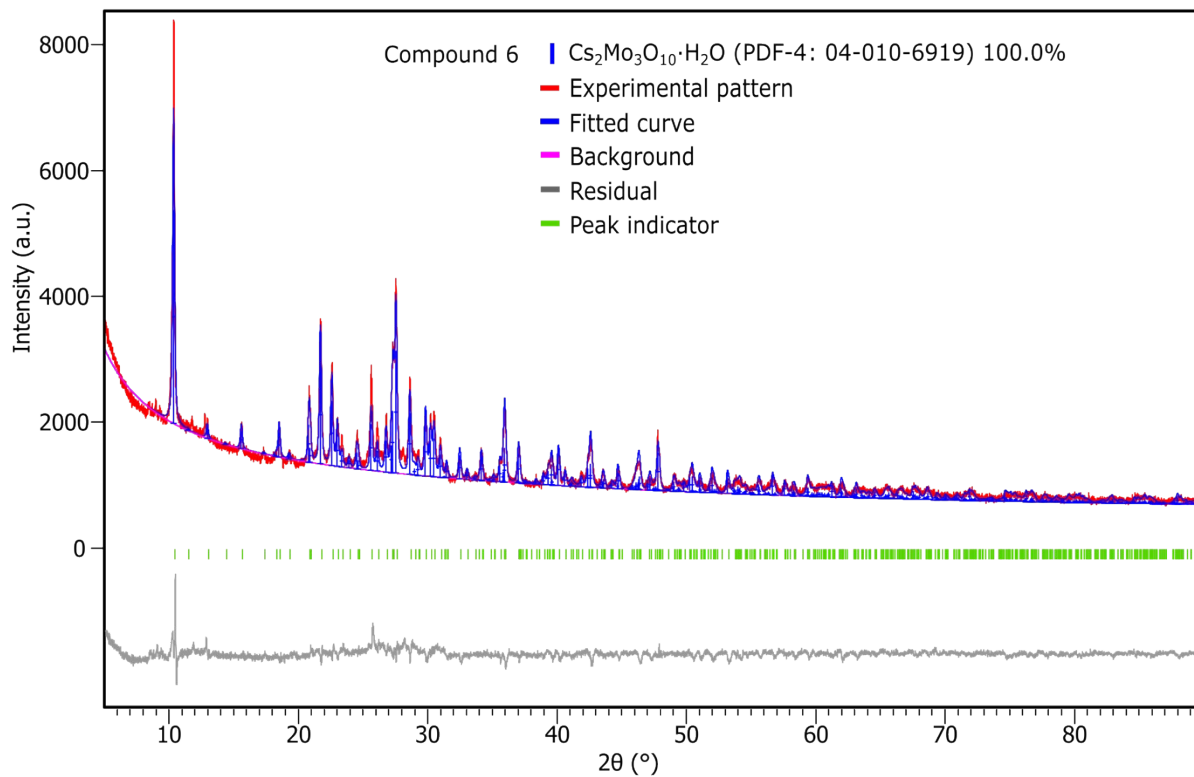


Figure S6. X-ray diffractogram of Compound 6.

Table S4. Statistical parameters of Rietveld refinement of Compound 6.

Parameter	Value
GOF	1.94765
R_p	4.20985
R_{WP}	5.45210
R_{exp}	2.79932
d-statistic	0.21685
Sample displacement [mm]	0.038167

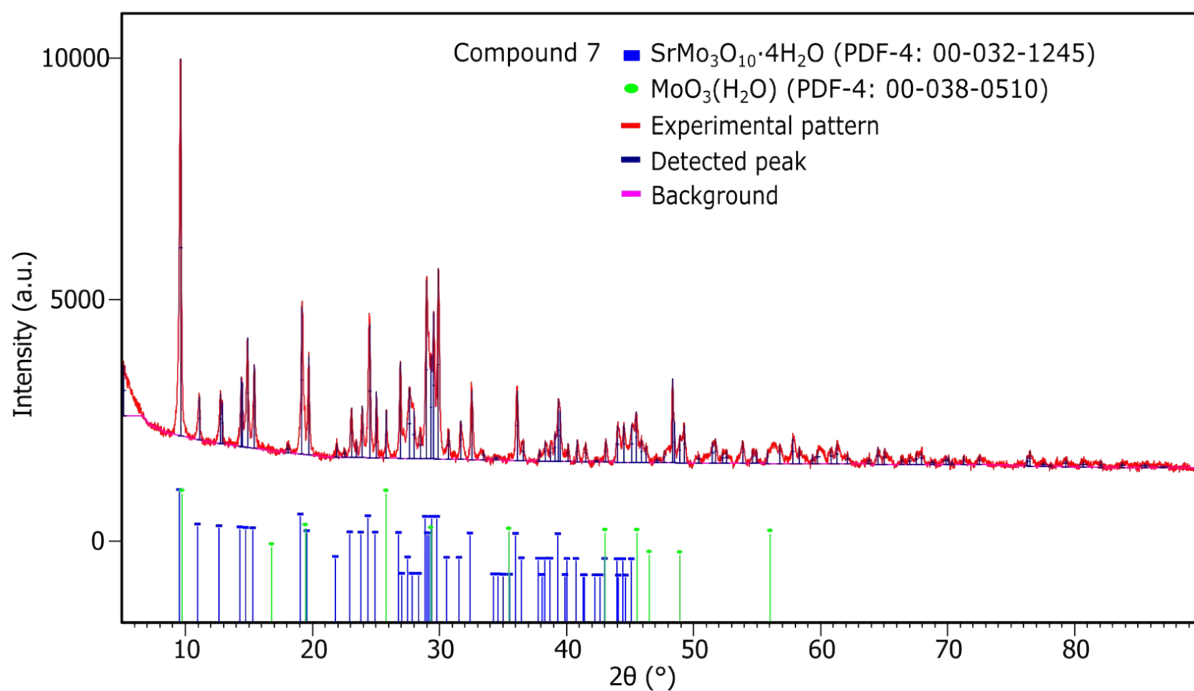


Figure S7. X-ray diffractogram of Compound 7.

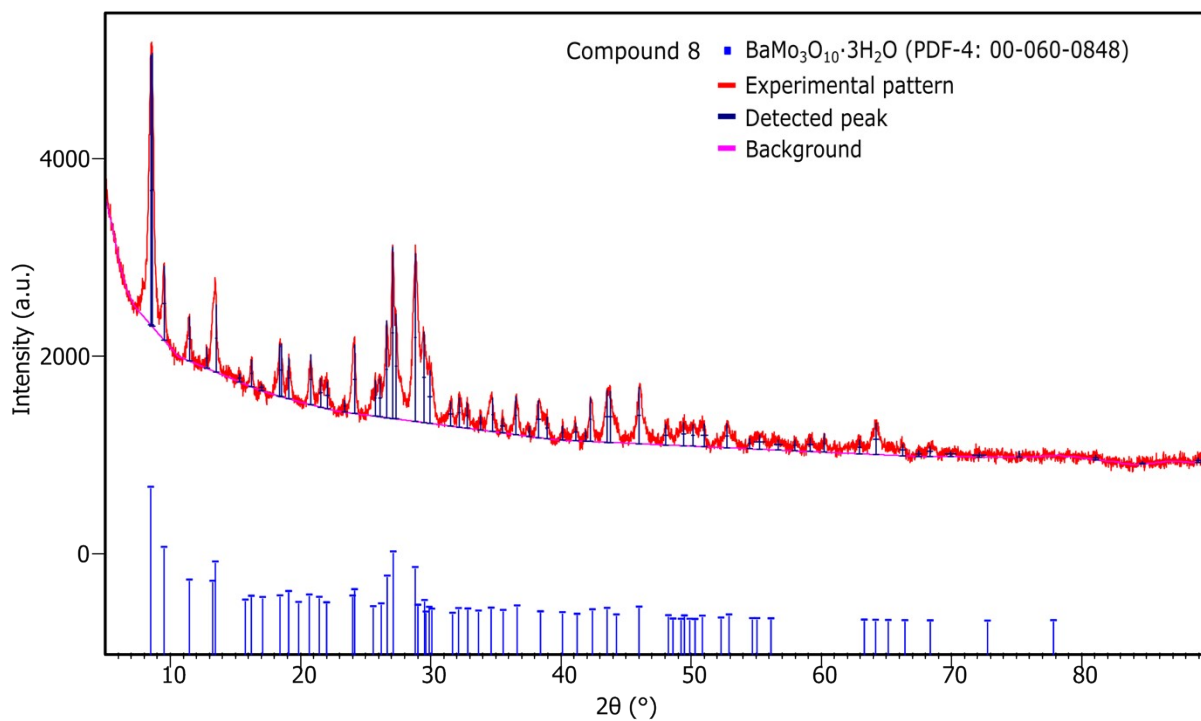


Figure S8. X-ray diffractogram of Compound 8.

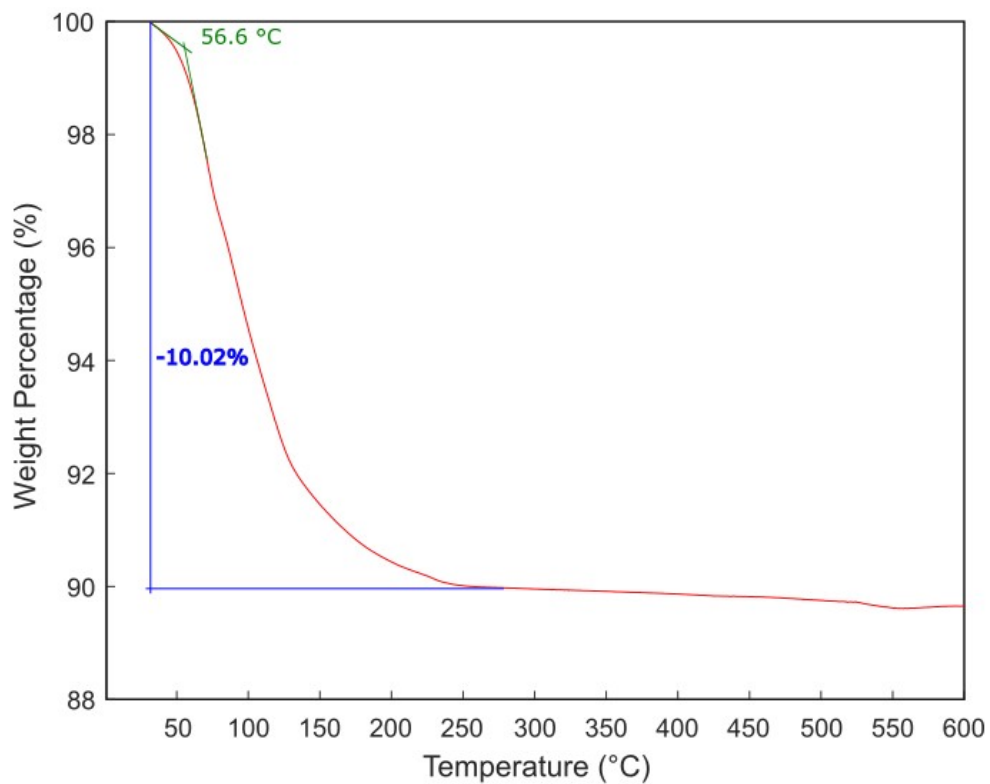


Figure S9. Thermo-Gravimetric Analysis of Compound 1

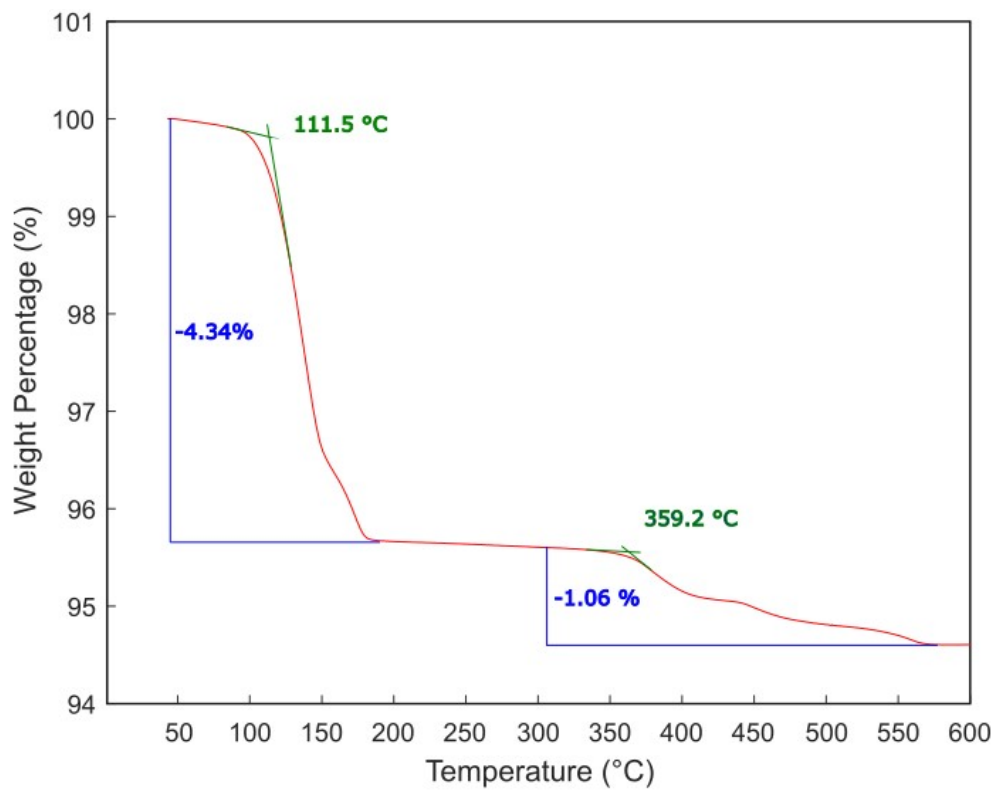


Figure S10. Thermo-Gravimetric Analysis of Compound 2

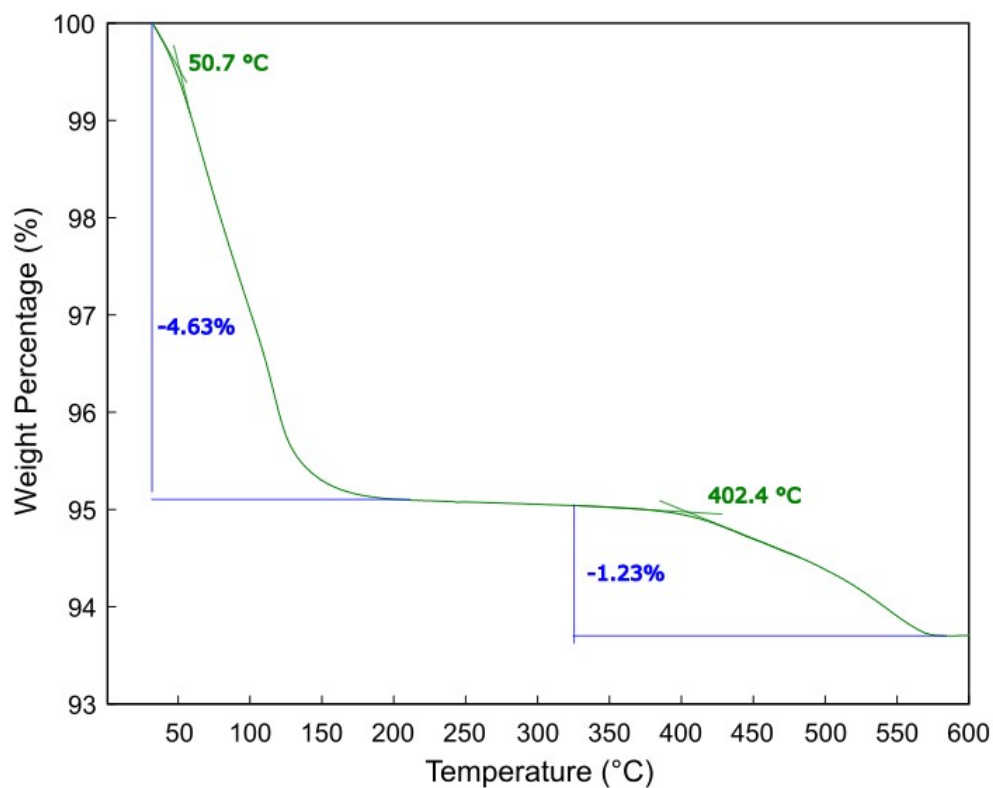


Figure S11. Thermo-Gravimetric Analysis of Compound 3

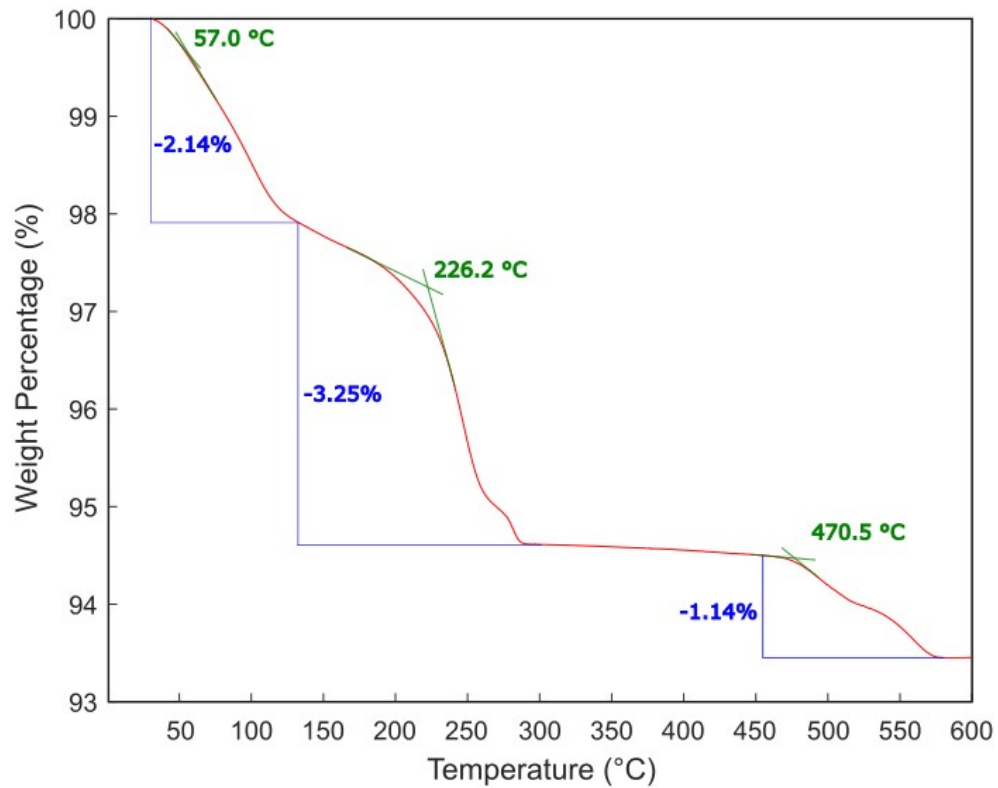


Figure S12. Thermo-Gravimetric Analysis of Compound 4

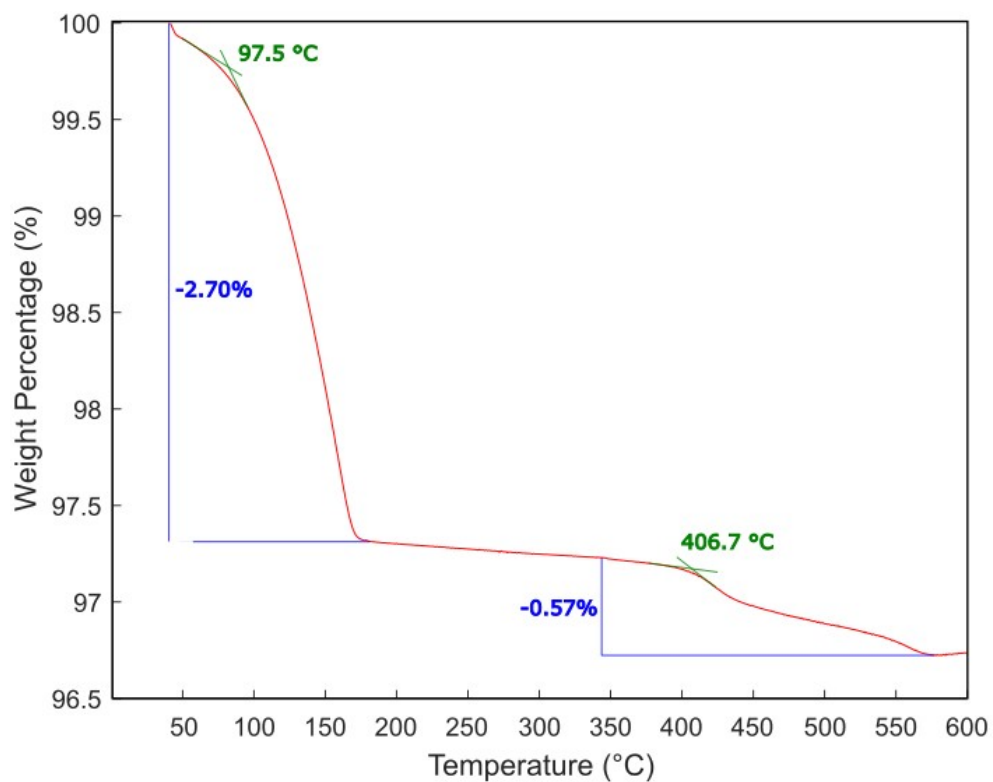


Figure S13. Thermo-Gravimetric Analysis of Compound 5

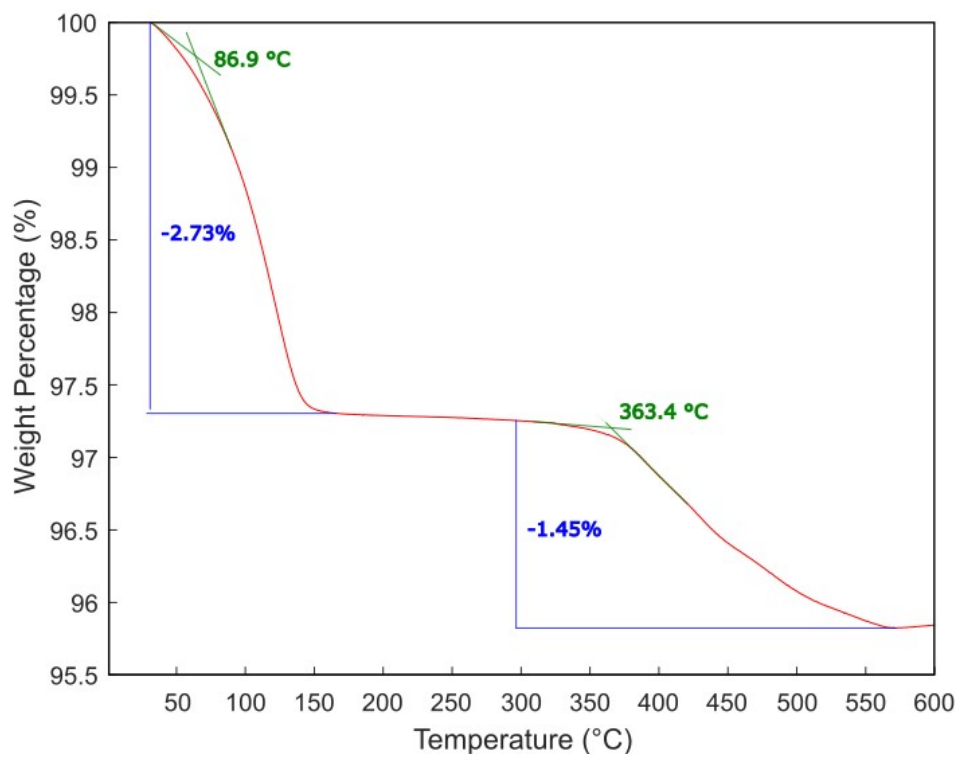


Figure S14. Thermo-Gravimetric Analysis of Compound 6

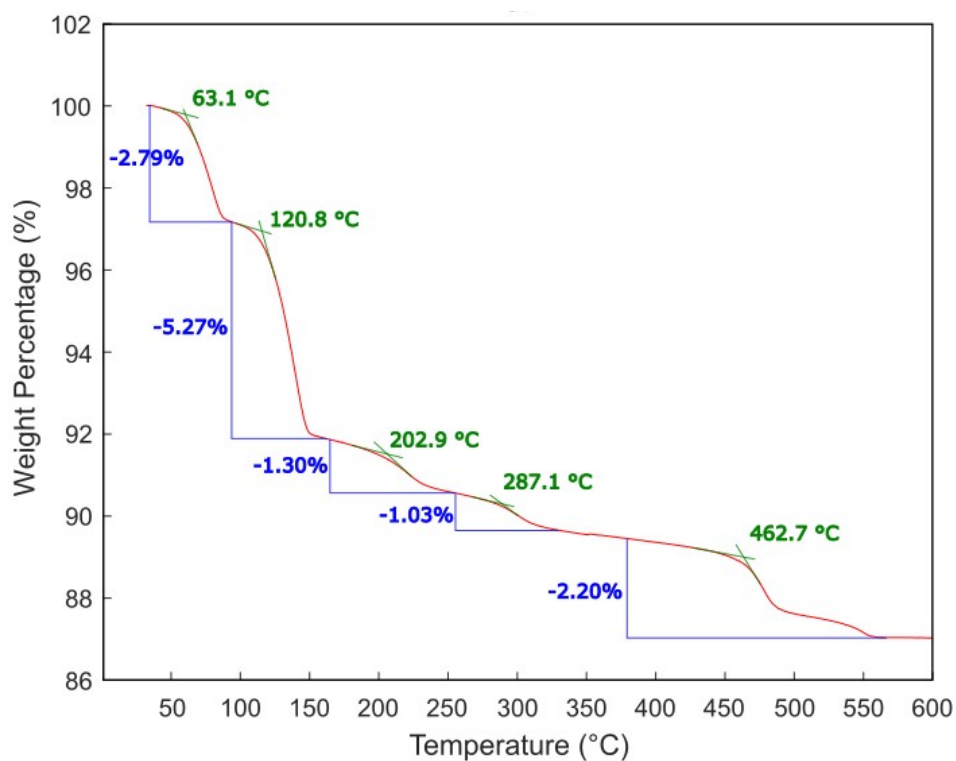


Figure S15. Thermo-Gravimetric Analysis of Compound 7

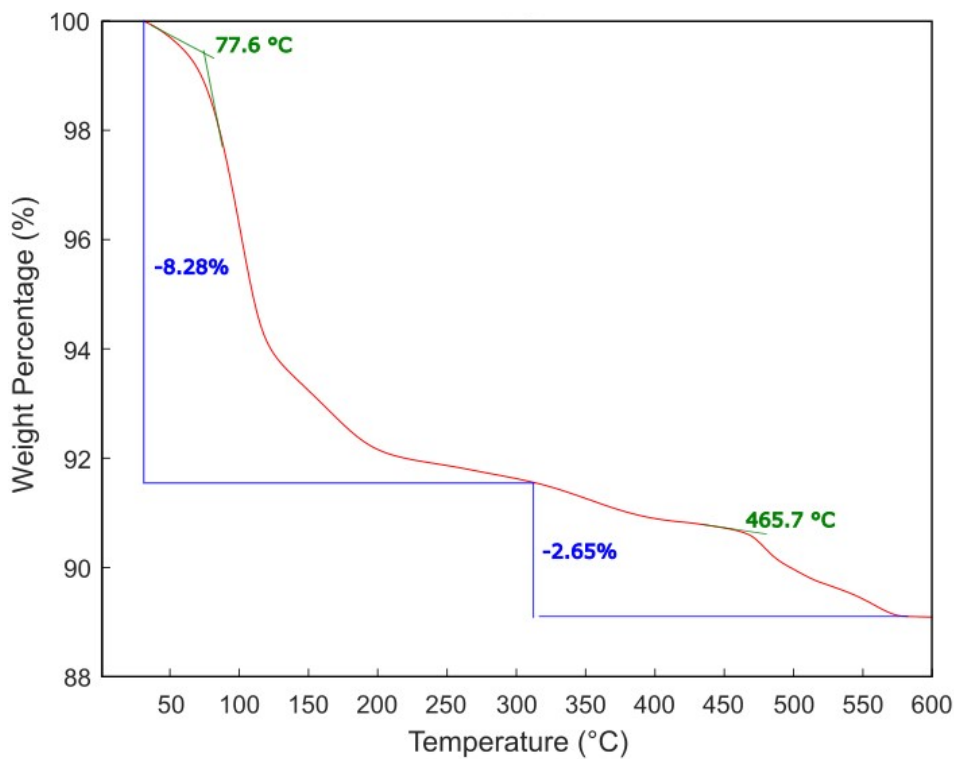


Figure S16. Thermo-Gravimetric Analysis of Compound 8

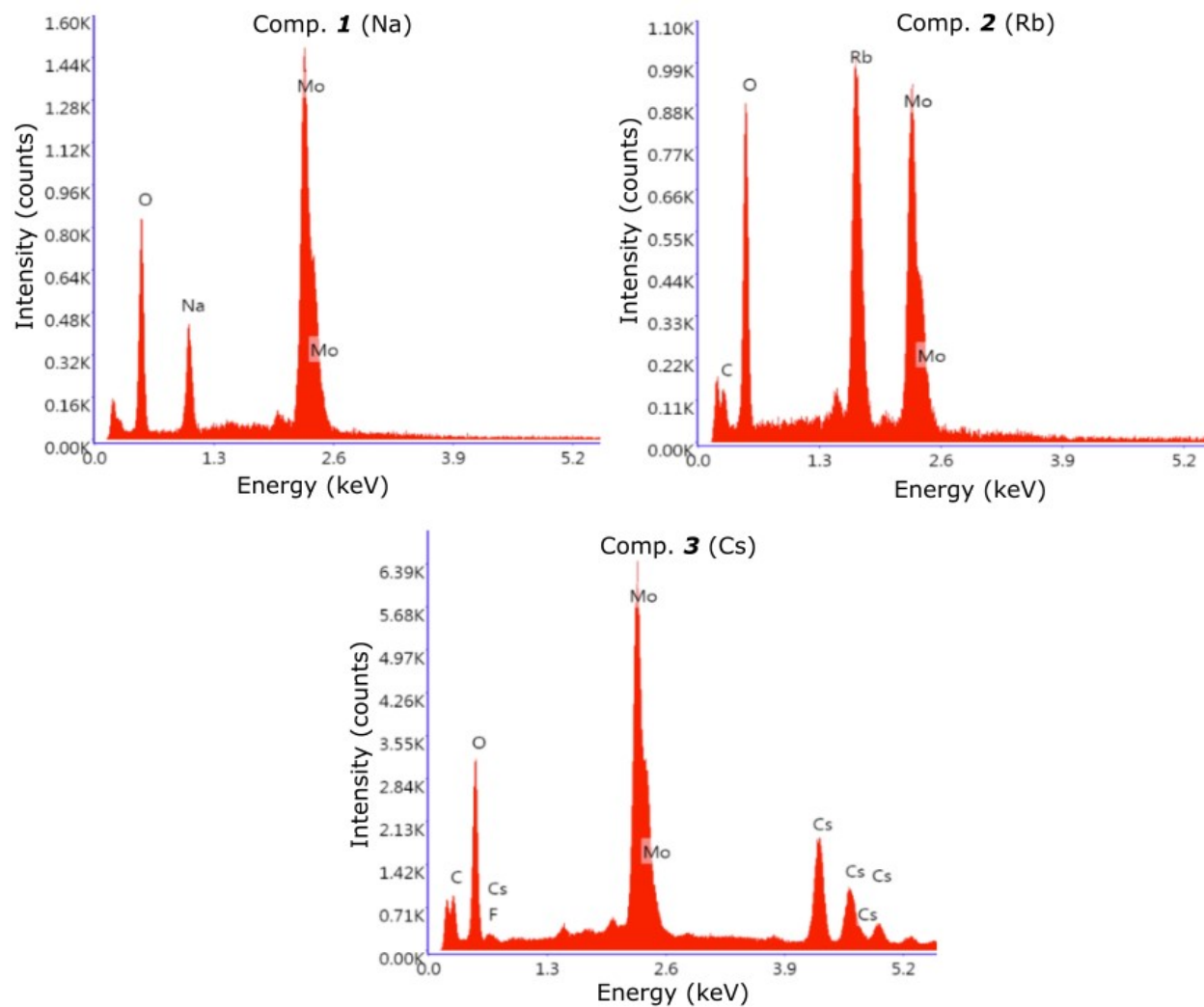


Figure S17 – Energy Dispersive X-Ray Spectra of Compounds 1-3

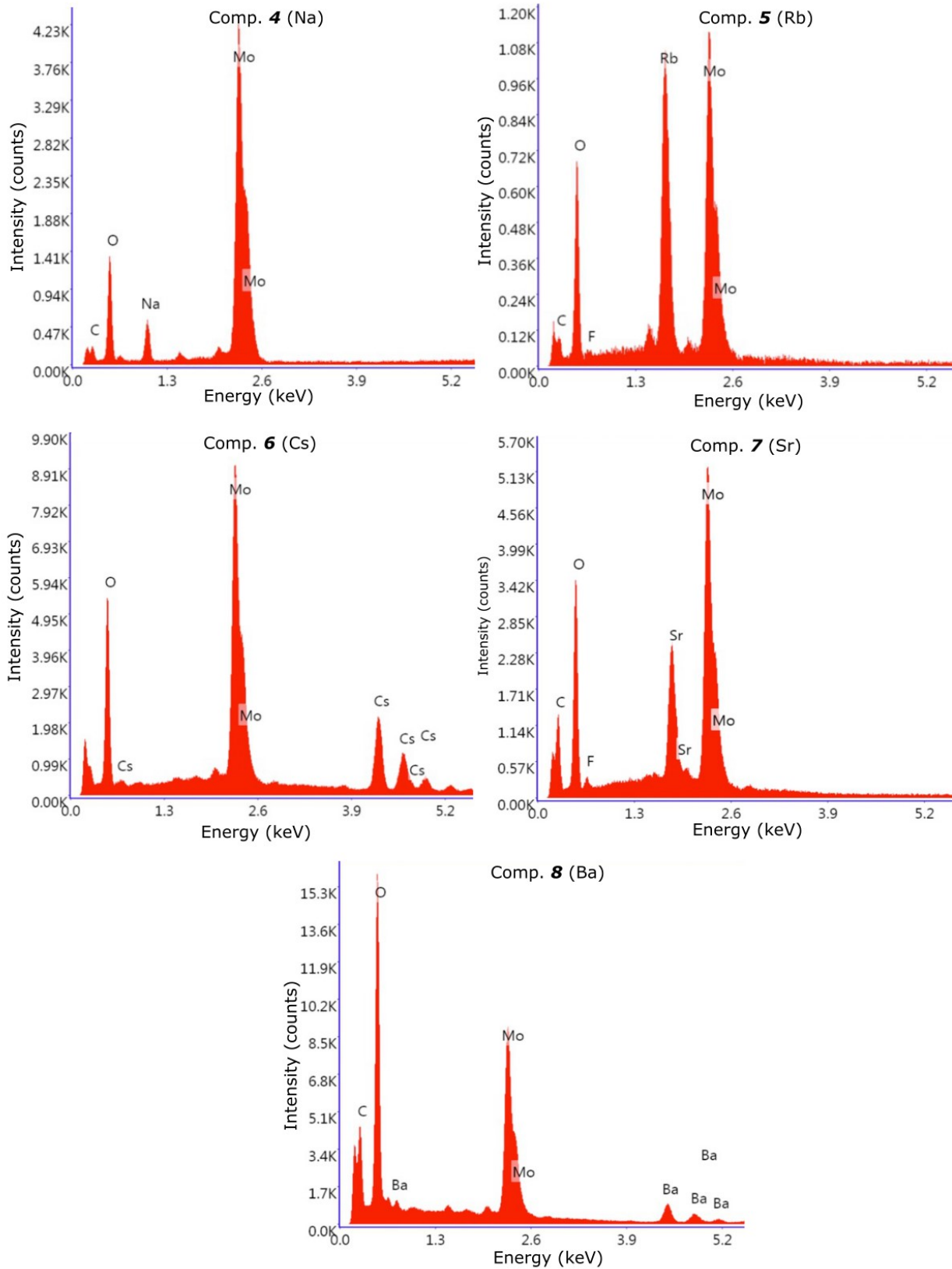


Figure S18 - Energy Dispersive X-Ray Spectra of Compounds 4 to 8.