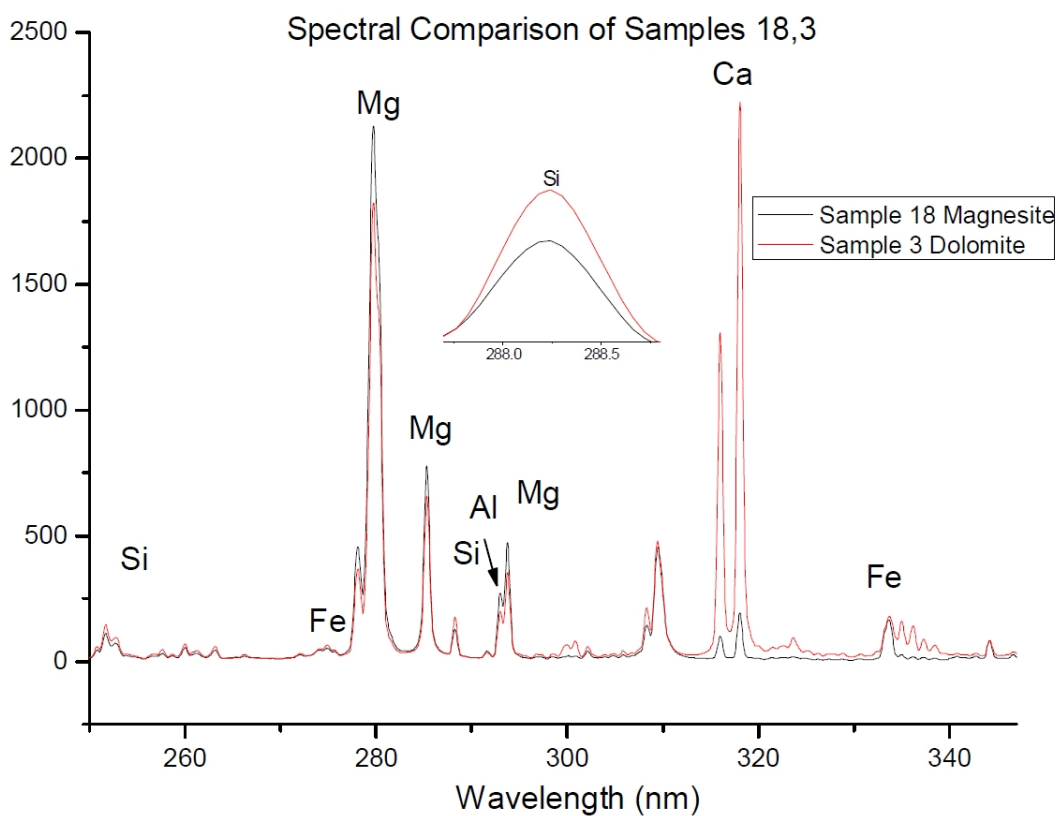
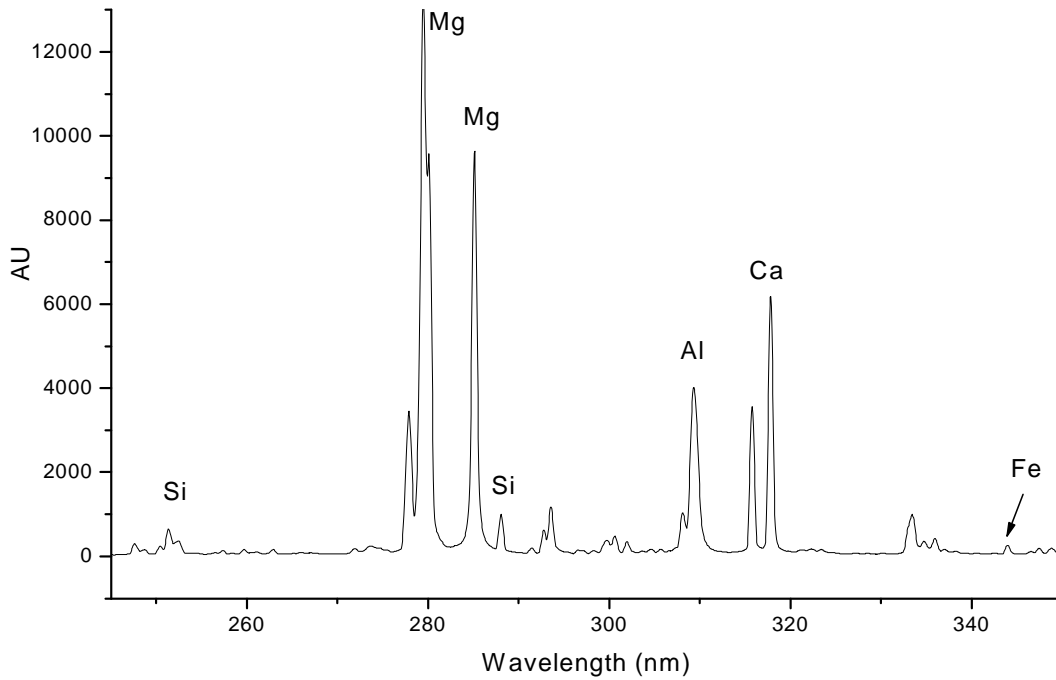


Report Study of Magnesite rock.

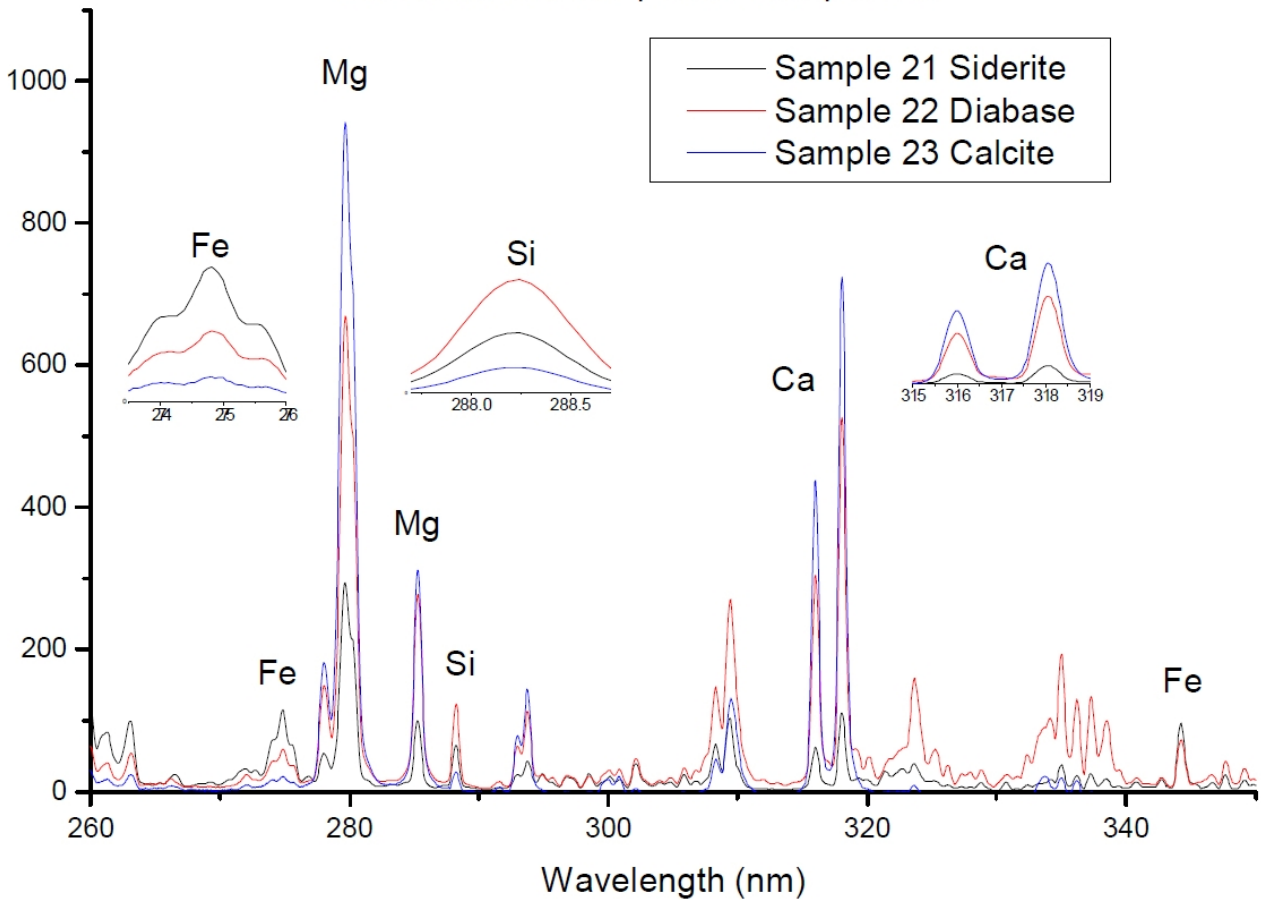
The customer's task:

Analysis of: SiO₂, CaO, Fe₂O₃, MgO, Al₂O₃.

Typical Magnesite UV spectrum.



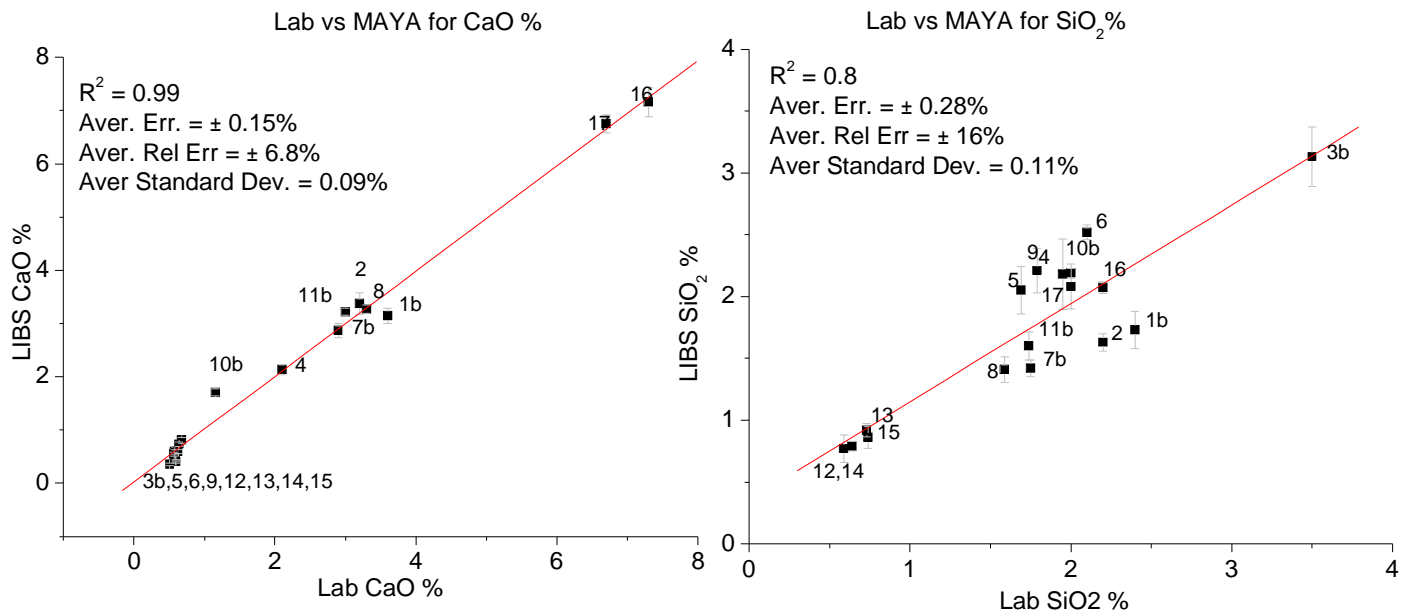
Different Minerals Spectral Comparison

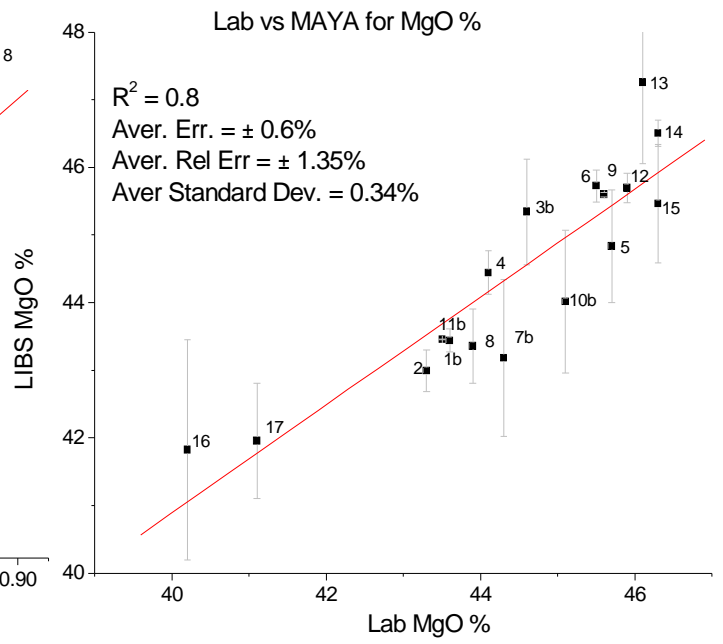
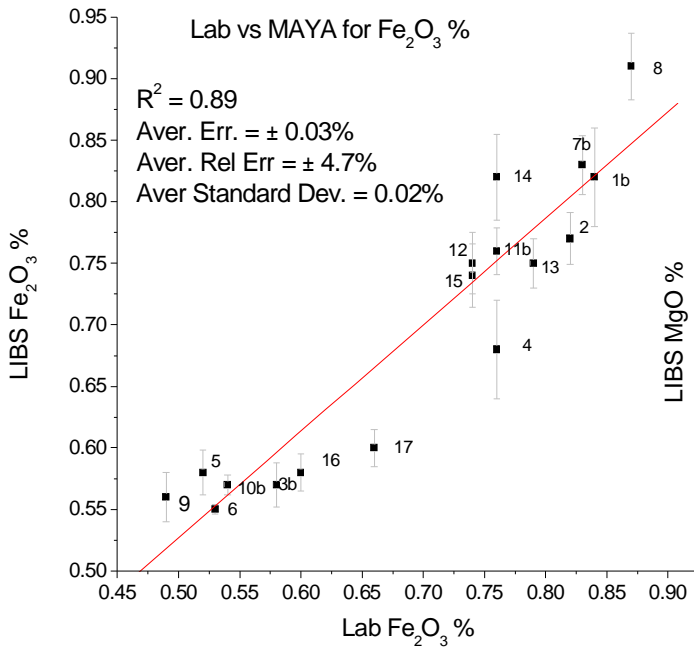


According to the spectrum, Mg, Si, Al, Ca and Fe can be clearly detected.

The results

According to the calibration, following data was received for MgO, SiO₂, CaO, and Fe₂O₃.





Conclusions:

on-line LIBS measurement of magnsite is possible for all required materials except of Al₂O₃ because it's spectral line is being screened by high MgO concentration.