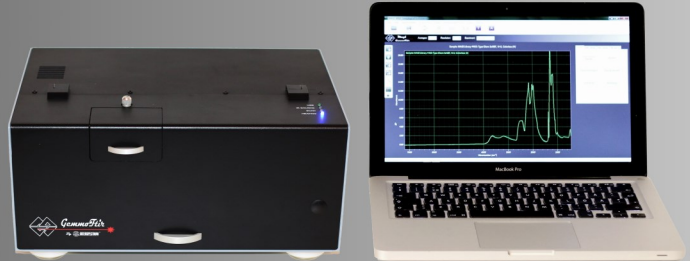


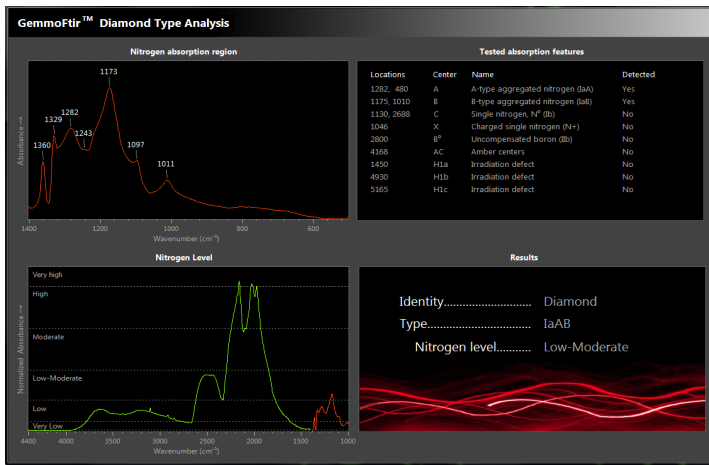


## GemmoFtir™ - FTIR reloaded

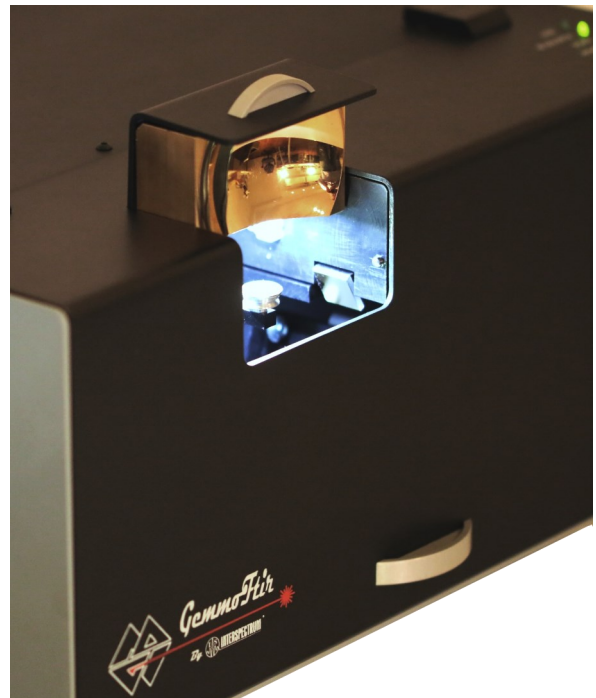
GemmoFtir™ is a low-cost FTIR-spectrometer specifically designed and built for diamond & gemological laboratories.



**FTIR (Fourier Transform Infrared Spectrometer)** is a mandatory tool in the modern gemological laboratory. It is routinely used for testing some of the most important gems such as diamond, emerald, ruby & sapphire, alexandrite, jade, amethyst, amber and turquoise.



GemmoFtir™ works with the same familiar software as other MAGI products, provided with its own growing FTIR- libraries. Each important gem species has its own library and a set of further analysis applications. The AutoScan wizard produces high quality results starting from the very first use. No prior experience is required - just insert the sample, close the lid and go.



### Key Features

- Fully automatic IR spectrometer for 0.05 – 50 ct. loose gems .
- Stainless steel & aluminum construction - no cheap plastic parts
- Gold coated DRIFT- unit and solid gold sample stage
- 1, 2, 4, 8, 16 and 32 cm<sup>-1</sup> resolution
- Range: ~ 400-7000 cm<sup>-1</sup>
- 24 bit A/D resolution, S/N ratio up to 15000:1
- Multi-coated KBr beamsplitter, low noise DLATGS- detector
- Small footprint suitable for desktop; 25 x 35 cm (9.9" x 13.8")
- Weight: 11.0 kg (24 lbs)
- Nitrogen purge option
- Developed and manufactured together with Interspectrum
- Renewable silica gel desiccator with visual humidity indication
- Electrically safe 12V system
- LED- illuminated sample chamber
- Long-life high intensity ceramic IR source with idle heating
- High quality case
- Optional transmission mirror setup available
- 15-28°C operating temperature range

Visit our website for more information: [www.gemmoraman.com](http://www.gemmoraman.com)

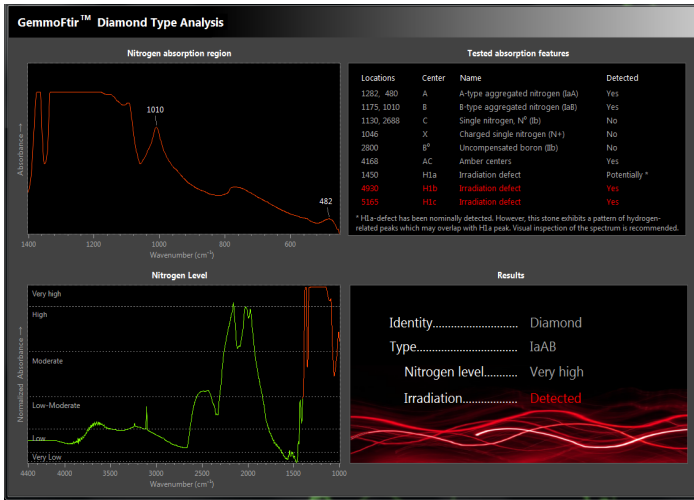
Email: [info@gemmoraman.com](mailto:info@gemmoraman.com)

Contact: Alberto Scarani, GG - Mikko Åström, FGA

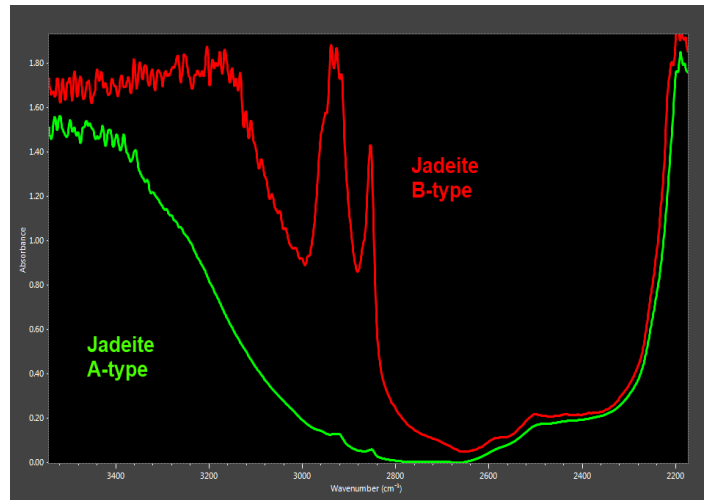
M&A Gemological instruments - Alhotie 14 - 04430 Järvenpää - FINLAND



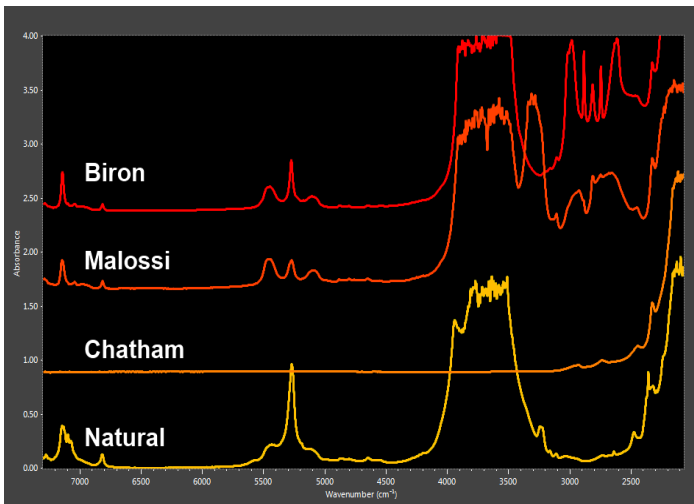
# GemmoFtir™ - Application examples



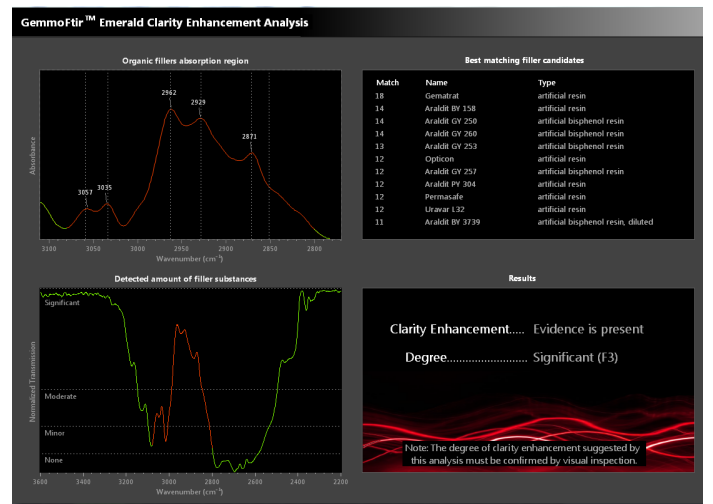
Diamond Type Analysis



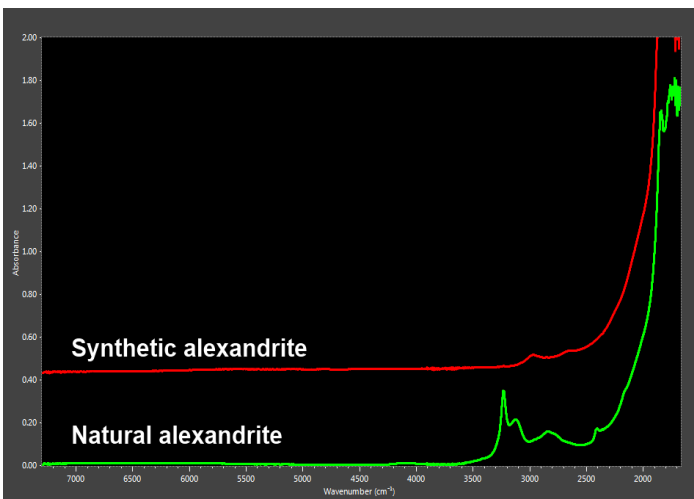
Jade impregnation



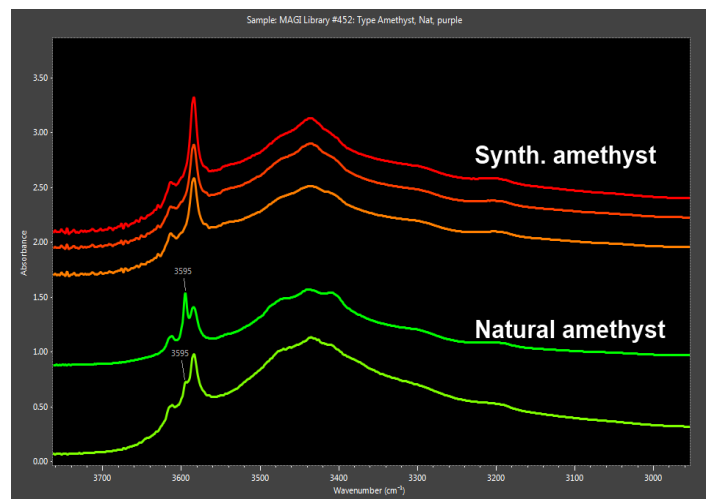
Emerald – natural vs. synthetic



Detection of emerald fillers



Alexandrite - natural vs. synthetic



Amethyst – natural vs. synthetic