



BROCHURE

Raman for Downstream Applications

MARQMETRIX[®]

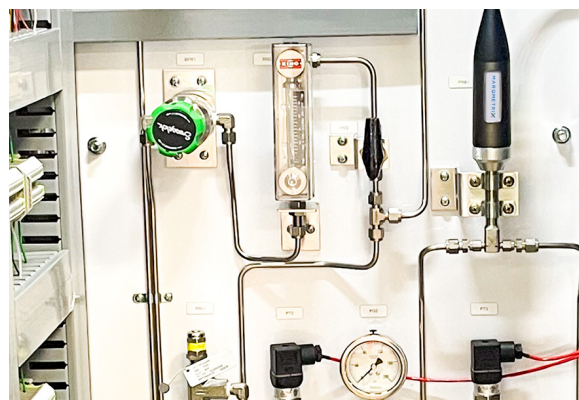


Expediting QA with Raman

A refinery's onsite quality assurance lab constantly analyzes samples and verifies the quality of their products prior to distribution. Throughput is a main challenge for these labs as the speed samples can be processed is dictated by the lab's measurement technology.

Traditional methods, such as a knock engine, vapor pressure analyzer, and gas chromatographer, require several hours to provide results.

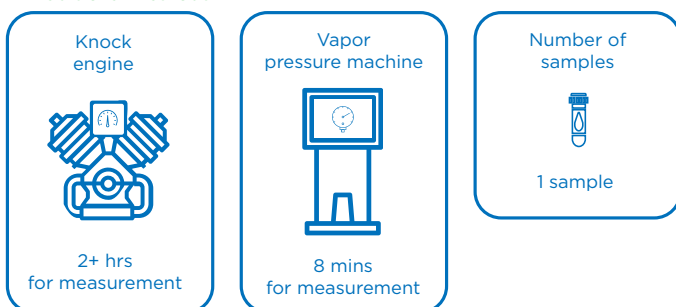
Raman spectroscopy can analyze 180 samples in the time it takes an octane analyzer to analyze a single sample. Raman is also flexible – labs can run multiple analysis methods simultaneously.



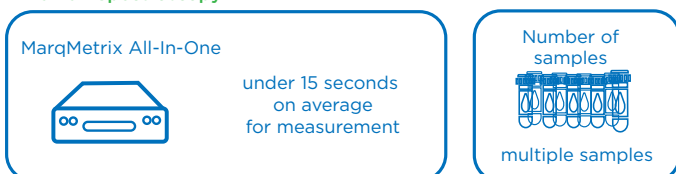
A solid-state Raman system, the All-In-One has no moving parts, making it ideal for continuous process monitoring, including inline, at line, or offline, and routine laboratory analysis.

Measuring Octane Numbers

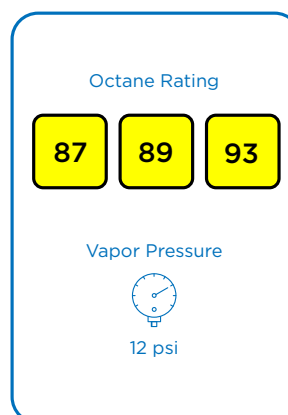
Traditional Methods



Raman Spectroscopy



Results





MarqMetrix All-In-One

Benefits

- Small footprint: move in the All-In-One without moving other equipment out
- Complementary analysis to your existing technology: knock engine, vapor pressure tester and gas chromatographer
- Data you can use: All-In-One measurements are correlated to the relevant ASTM standard



With a small footprint and no moving parts, the All-In-One makes Raman analysis portable and puts decision-makers at the point of measurement.

Industry Uses



A US-based refinery is using the AIO to certify rack batches while the knock engine is running in the background to produce the custody transfer documentation. By doing this, the refinery is bringing gasoline to the market faster.

[Read more](#) →

Selected Applications for Refineries

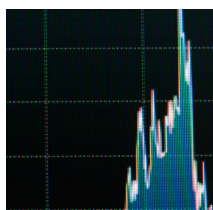
MarqMetrix's core models offering allows refineries to:



Certify gasoline blends



Analyze Naphtha pretreats



Identify sulfur peaks



Analyze CO, CO₂ and oxygen level concentrations



Simulate distillation

RAMAN FOR DOWNSTREAM





Specialty Probes

Lab Applications

Proximal BallProbe & Vial Holder



- Non-contact probe
- Accommodates a 20ml scintillation vial

Lab & Process Applications

FlowCell



- Measure volatile fluids inline
- Quick connection to pressurized cylinders

Process Applications

Process BallProbe



- Measure fluids in the process piping
- Wide range of chemical compatibility and resistance to high temperatures



Additional Accessories

- Hazardous location enclosures for additional protection

MARQMETRIX®

For more information call:

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