



Da Vinci Laboratory Solutions (DVLS)

Da Vinci Laboratory Solutions (DVLS) was established as a laboratory support provider in 2000. Today Da Vinci has become the versatile partner to laboratories by offering chromatographic solutions that address all analytical challenges starting from sample preparation, analysis, reporting, data management up to providing technical support and supplies.



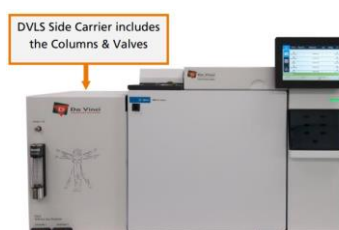
DHA Analyzers

Da Vinci Laboratory Solutions offers various automated solutions for a Detailed Hydrocarbon Analysis (DHA) to determine the individual hydrocarbon components in light petroleum streams such as naphtha, reformate and gasoline. All DHA Analyzers are based



SimDist Analyzers

Da Vinci Laboratory Solutions offers a complete range of SimDist Analyzers that comply with all standard test methods of ASTM, DIN, EN, IP and ISO for simulated distillation. Each DVLS SimDist analyzer is based upon the Agilent 7890B Series



DVLS Refinery Gas Analyzer (RGA)

Da Vinci Laboratory Solutions (DVLS) offers an automated gas solution to characterize the composition of refinery gases and liquefied gases under pressure such as LPG, Ethylene and Propylene. It has a 5 minute run time and it is configured on the new Agilent 8890 GC, with LPG

upon the flexible, reliable Agilent 7890 GC configured with dedicated columns, injection ports and detectors.

All DHA solutions comply with the standard ASTM test methods for a detailed hydrocarbon analysis:

- ASTM D5134
- ASTM D6729
- ASTM D6730
- ASTM D6733
- ASTM D7900

Gas Chromatograph configured with the required hardware and software components.

The SimDist analyzers comply with all standard test methods of ASTM, DIN, EN, IP and ISO for a simulated distillation:

- ASTM D2887, D5442, D6352, D7096, D7169, D7213, D7398, D7500
- IP 406, IP 480, IP 507, IP 545
- ISO 3924
- DIN 51.435
- EN 15199-1, EN 15199-2, EN 15199-3

options. The molsieve column can be conditioned in the GC to restore the O₂, N₂CO & Methane separation.



DVLS Secondary Oven

DVLS Liquefied Gas Injector

A fast, safe and accurate solution for the Sampling & Analysis of impurities in Liquefied Gases. The technique is standardized in the ASTM D7756 and EN 16423 methods for the analysis of residue in LPG.

The setup of the Liquefied Gas Injector (LGI) solution consists of an Agilent gas chromatograph (GC) on which the Liquefied Gas Injector and its controller are installed. The Pressure Station is used for safe and accurate sample introduction of LPG.

The direct injection approach of the Liquefied Gas Injector (LGI) is a safe alternative

DVLS³ Hydrogen Sensor

Hydrogen is a very efficient carrier gas for gas chromatographs. It increases the analysis speed without losing chromatographic resolution, saves costs and has an unlimited supply. This makes it an ideal alternative to Helium as a GC carrier gas. However, this carrier gas does have one disadvantage as it is an explosive gas.

Constantly monitoring the Hydrogen concentration in the GC oven with a sensor ensures a safe use of Hydrogen in your laboratory. The Da Vinci LS Hydrogen Sensor is a dedicated Hydrogen sensor that is compatible with all GC brands.

Multiple GC analyses are often required for full product characterization, involving different temperature programs and complex data integration. Heated (valve) ovens have restricted programmability, and defined column compatibility.

The temperature-programmable Secondary Oven from Da Vinci LS expands the capabilities of the Agilent 8890 GC, enabling simultaneous dual GC analyses without the need for a second GC system and additional software licenses—improving efficiency, flexibility, and throughput.

technique to a liquid sampling valve or manual evaporation.		
Other Petrochemical Analyzers DVLS Oxygenates/Aromatics Analyzer DVLS Sulfur in Gasoline & Diesel Analyzer DVLS Aromatics Analyzer DVLS Biodiesel Analyzer Other DVLS Custom solutions		