



**Mass Spectrometry
Instruments Ltd**

Introduces

The NEW

***Elsima* TOF**



Elsima TOF

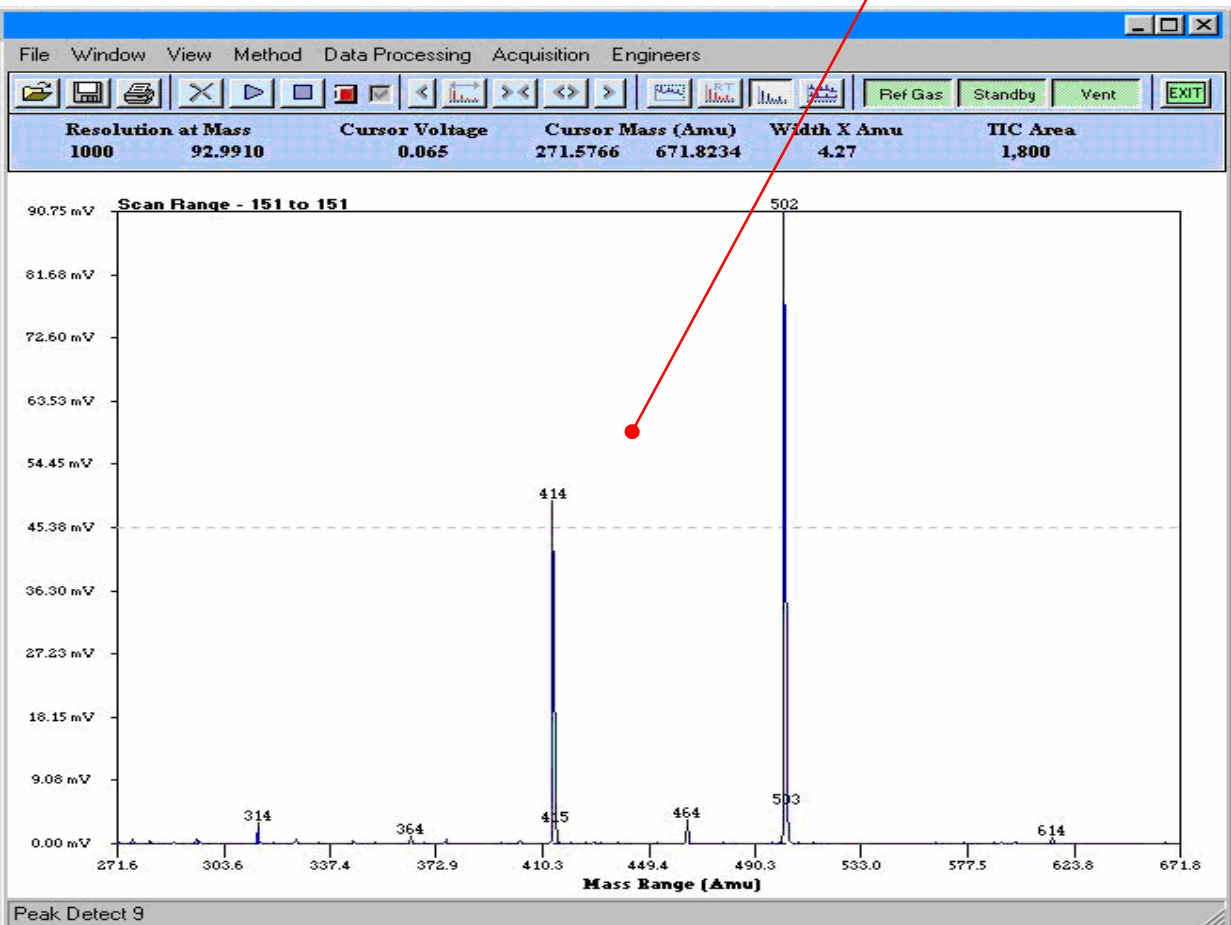
The Elsima TOF is the first of a brand new design in small bench top GC/MS instruments. Its unique design allows for ultra-fast spectral acquisition speeds, capable of acquiring over 2,048 ADC spectra every second, equivalent to 522,240 TDC scans per spectra. This allows all the latest fast GC and GC x GC technologies to be used. Elsima TOF has more than enough speed to easily handle the resultant data. This data contains more components with more sensitivity in less time, compared to standard GC/MS methods. More components in less time with better quantitation means one Elsima TOF can replace multiple existing GC/MS systems.

The Elsima TOF is fitted with a reflectron to decrease energy dispersion and increases mass resolution. The detector provides you with quantification, identification and is suitable for a vast array of applications, including Petrochemical, Environmental, Forensic, Hydroxy acids, Amino acids, Cosmetics, Toiletries, Fragrance and Flavours.

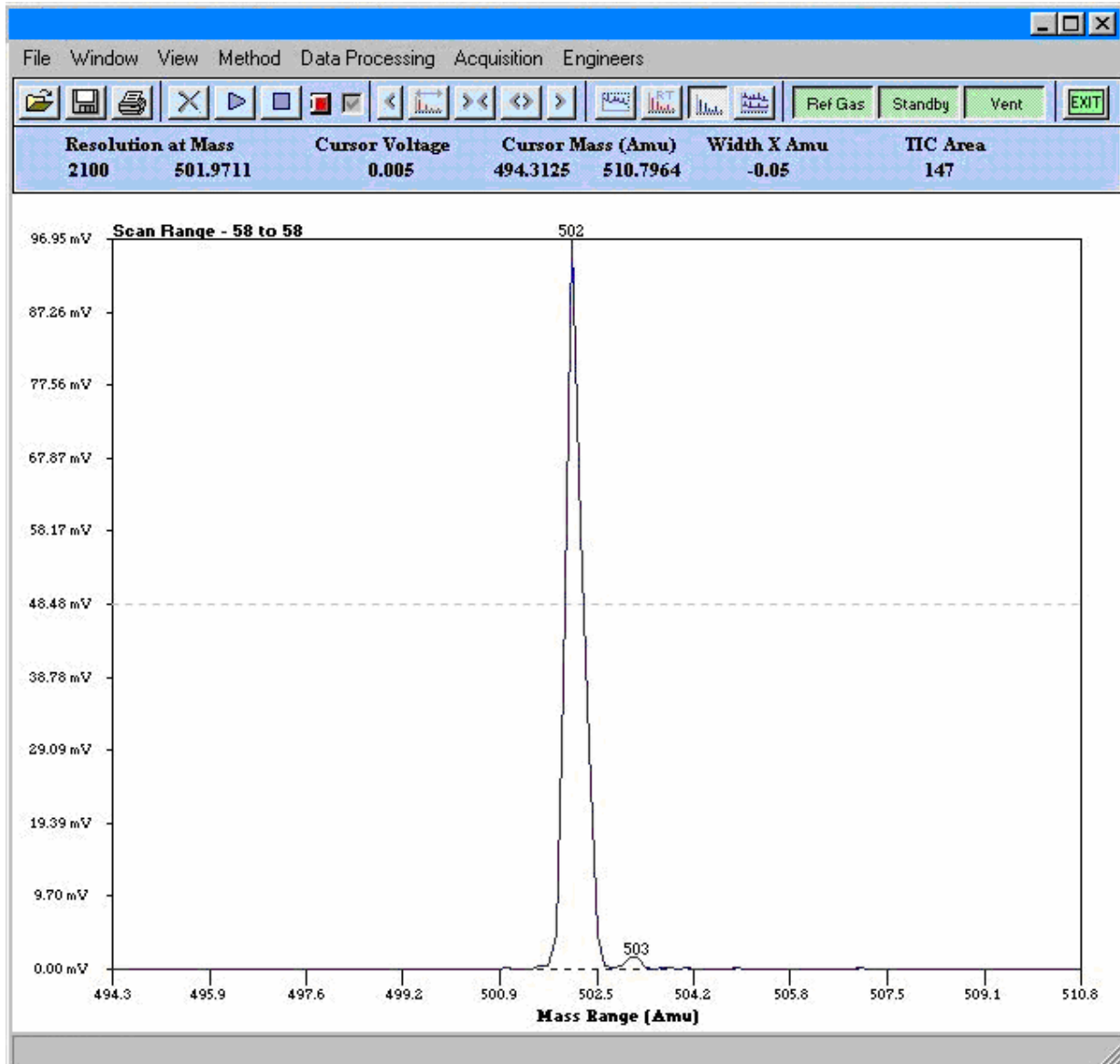
Key Features

- Super fast GC/MS Detection
- Full spectra with high sensitivity
- High sampling rate, vital for FAST GC
- 2,000 ADC spectra per second at full mass range
- 4,000 ADC spectra per second at half range
- 5 decades of full spectral dynamic range
- Resolving power >1500 FWHM @ MZ 502
- Mass Stability +/- 0.1 AMU over 24 hours
- Mass Accuracy: +/- 0.02 AMU with no internal reference.
- Ideal for complex mixtures and natural products
- Produces high quality library searchable spectra over a wide concentration range
- Electronic self diagnostics, all voltage and current measurements
- Variable low mass energy filter to extend the detector life
- Reflectron design corrects the energy dispersion of the ions leaving the source
- Selective ion monitoring SIMs, up to 10 different ions can be monitored at the same time
- Quick 2 point calibration

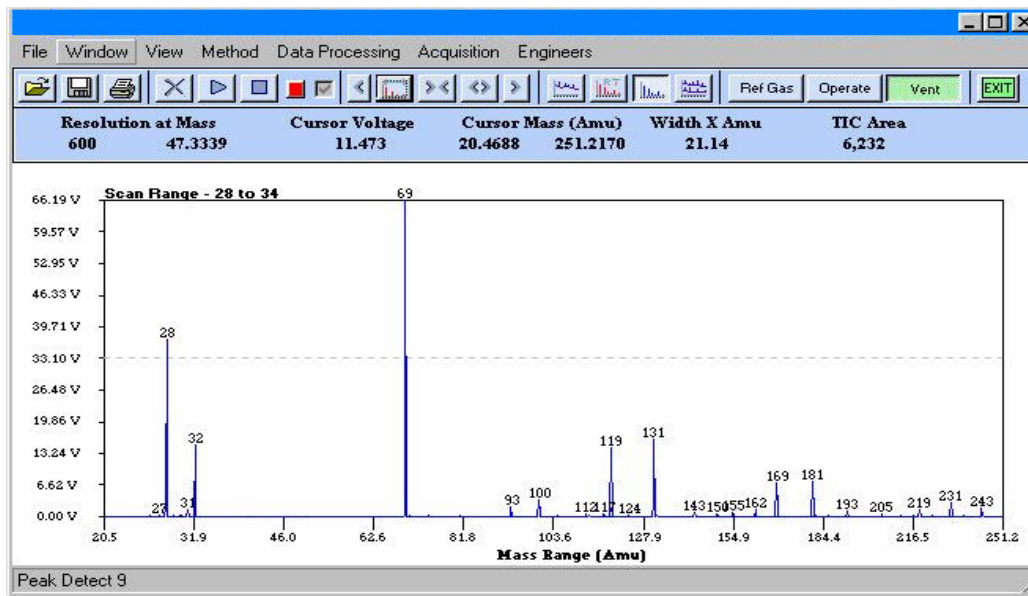
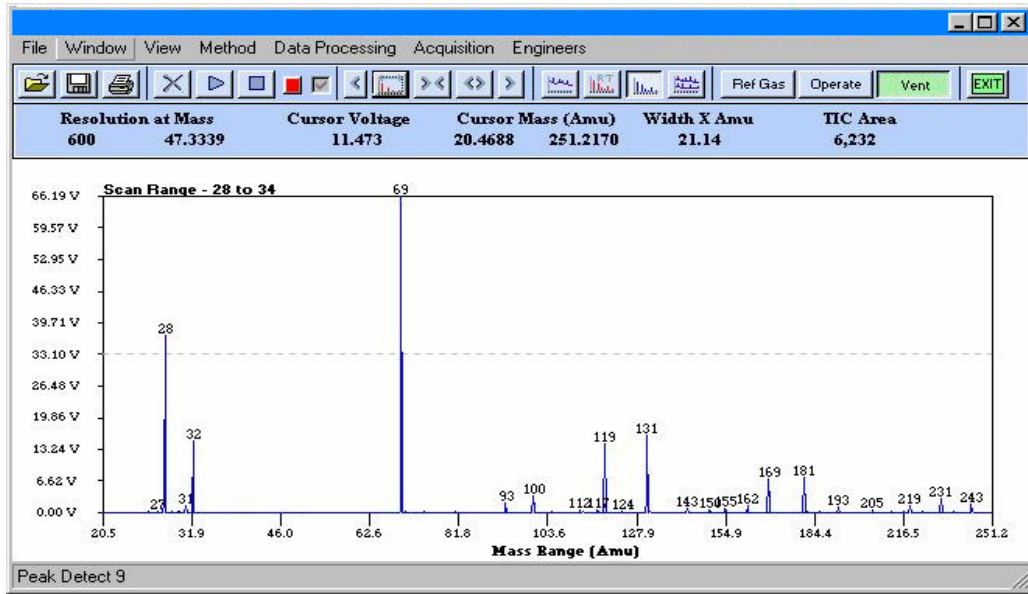
Typical test spectra for Heptacosane

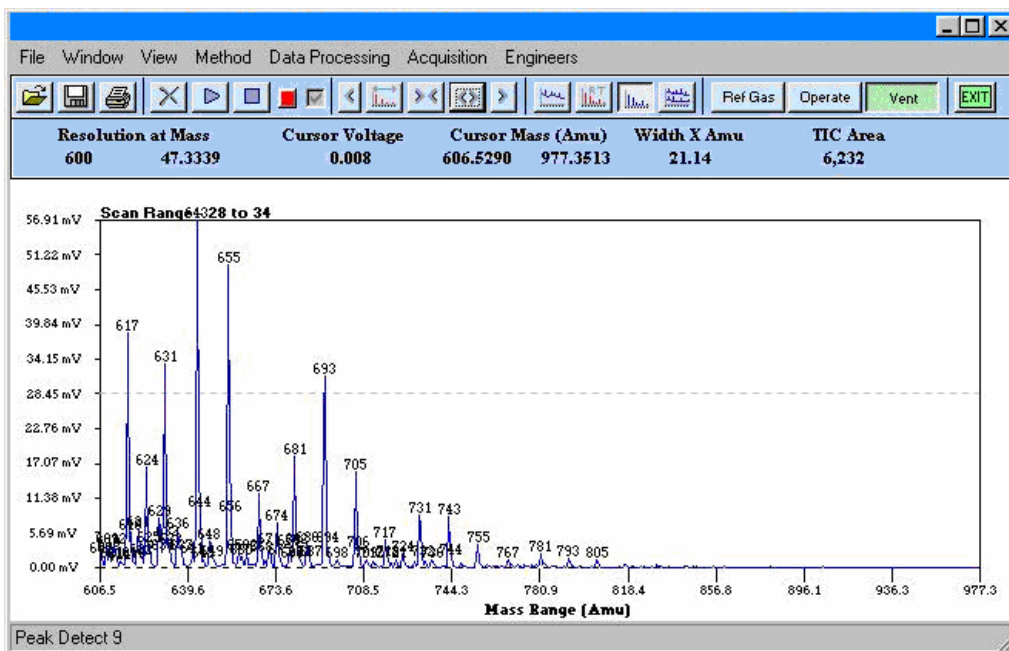
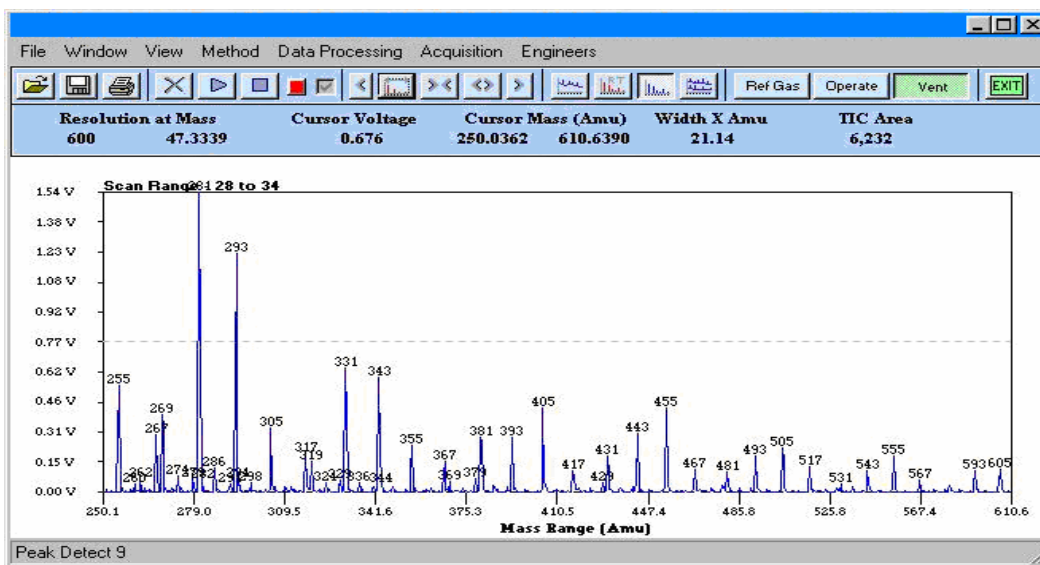


Resolution Test > 1500

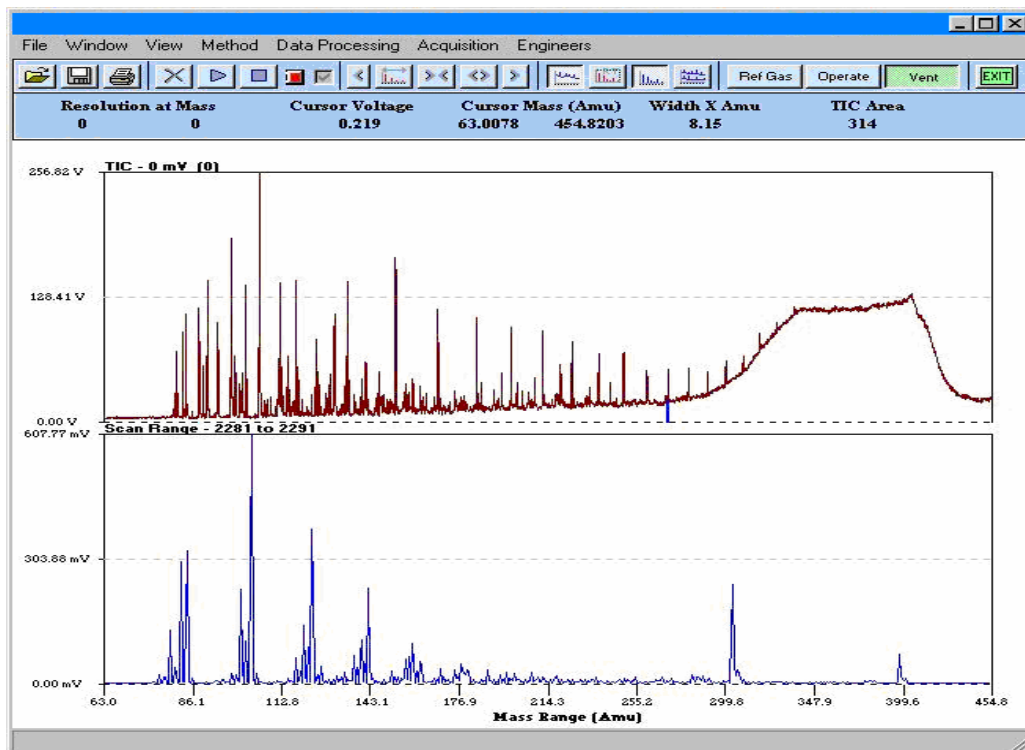


PFK Perfluorokerosene





Unrefined North Sea Oil



Unleaded Petrol

