

# The Syntech Spectras GC955 series 600 BTX analyser

The Syntech Spectras GC955 series 600 BTX analyser is built for the measurement of benzene, toluene and xylene isomers in ambient air.

In the European regulations measurement of benzene in ambient air is now obligatory. The concentration of benzene varies from under 1 to above 100 micrograms per m<sup>3</sup>.

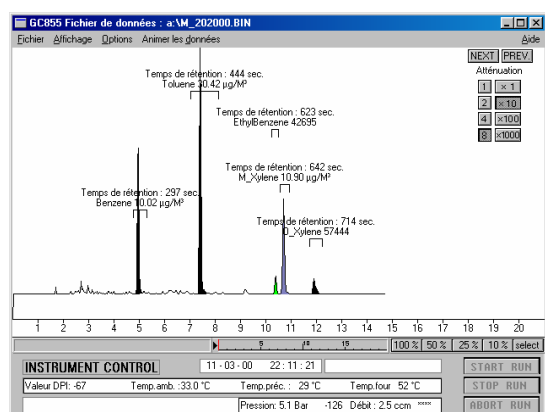
For authorities wanting to measure benzene our instrument is the ideal choice: our instruments are not only designed for the analyst working in the laboratory, but especially for the technician working in a field station or at a control panel. Specialised chemical knowledge is not necessary.



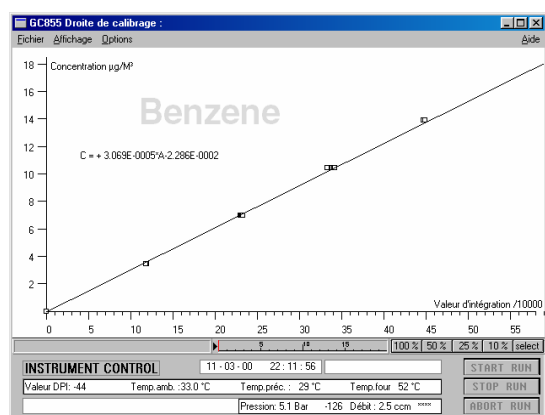
The instrument is a gaschromatograph with a built-in preconcentration system. Hydrocarbons are preconcentrated on Tenax GR, desorbed thermally and separated on an EPA624 equivalent column, to reach optimal separation from interfering hydrocarbons. Analysis is done by a photo ionisation detector. This ensures a high specific sensitivity for benzene and other aromatic hydrocarbons. The new Syntech Spectras GC955 has a higher sensitivity.

In the GC a standard industrial PC with Windows is used. This means that the whole PC structure is available to handle also the results of measurements: data are interpreted and saved on the internal hard disk. Data can also be transferred by network and modem connection. Besides this, analog and digital output options are available to communicate with other data logging systems using several data protocols.

Simple operation, good reliability and low maintenance cost are important to us. With a network of distributors in and outside of Europe you can be sure that your instrument comes complete with an individualised training and that support is available to help if you do encounter problems. The new Syntech Spectras GC955 works on only one gas, nitrogen, using a very small quantity.



Chromatogram of a measurement of BTX in France, 1999



Calibration in the range of 0 to 18 µg/ m<sup>3</sup>

601 BENZENE, toluene and xylenes in air.	PID detector. Lowest detection level for benzene 0.1 µg/m <sup>3</sup> (0.03 vppb). Range: up to 300 ppb. <i>Included items: SERIES 600, column AT624 15m, 0.32 mm ID, 1.8 µm film, cycle time 15 min, temp program 50 - 70 °C</i>
reproducibility	typical <3% at 1 ppb (benzene, with capillary column)
consumption of gas	instrument air: none! Nitrogen: quality 5.0, 4 bar, 6 ml/min
dimensions	19" rack, 5 standard Height Units, depth 37.2 cm net
power demand	220 V AC, 100 VA (110 V AC available)
included hardware	computer Pentium III class, hard disk ≥40Gb, 2.5", display LCD 10.4" colour, various data connection options
included software	Windows XPe, control of instrument: direct control via keyboard or mouse, or via remote host (RS232 / modem), ethernet, data exchange protocols available on demand
Option	One PC can control 2 gaschromatographs
Certification	CE approval, Approval for EN14663-3