

GAS CHROMATOGRAPH COUPLED WITH MASS SPECTROMETER

Model: Agilent 7890 A GC & 5975 GC/MS, MSD Series, Manufacture year: 2008

Technical specifications:

- ❖ Gas chromatograph with keyboard and control display, split-splitless injector, GC-ALS, carrier gas: He 6.0
- ❖ Equipped with HP-5MS capillary column (30X 0.25 mm X 0.25 μm)
- ❖ Monolithic Hyperbolic quadrupole mass analyzer, provides a resolution constant along the entire mass range, MS interface heated to 350°C, ionization energy between 5-240eV
- ❖ Mass range between 1.5-800 atomic mass units
- ❖ Nist L14 Mass Spectral Library Software



Applications/results: performing qualitative and quantitative analysis for volatile organic compounds; use in the SPME-GC-MS technique, GC-MS analysis of synthetic organic compounds, e.g. pheromones, analysis of natural extracts – extracts in organic solvents from plants, insects, natural matrices, chemical analysis of pollutants in water, air, soil ; pesticide residues from soil and used oils, analysis of food ingredients: authenticity and pesticide residues, GC-MS determination of fatty acids from vegetable oils.

Terms of Use:

- ❖ The device operating under vacuum and high temperatures conditions.
- ❖ For this reason, the use of device and carrying out the tests is allowed only by qualified persons
- ❖ For the proper functioning of the equipment, it is important to know the nature of the samples brought for analysis. The samples must not contain trace water.
- ❖ Upon request, based on the results, analysis reports are drawn up. The results are sent by e-mail.

Opening hours: Mon-Fri, 8.00-16.00

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