

# MsXelerator

## GC/MS QC v2.9



GC/MS Data Processing Software

### GC/MS Quality Control and Data Analysis for Metabolomics Applications

A GC/MS workflow for Metabolomics applications includes a number of distinct steps: experimental design, sampling, sample preparation, data acquisition, data processing, deconvolution, identification and data interpretation. The GC/MS QC – Quant module of MsXelerator includes Quality control procedures and Analysis of Variance (ANOVA) to properly control each step in this workflow and to obtain reliable results for both quantitation and identification. One of the key issues in GC/MS data processing remains the precise and sensitive detection of all compounds present in a series of samples in combination with accurate **deconvolution**. GC/MS Quant performs precise and accurate deconvolution, not seen in other software packages.

### Software Features:

#### Quality Control

The GC/MS QC module uses control samples and standards to check on instrument performance. Combine different projects to see short and long term variation of your instrument. Quality Control Tools include: calibration lines, performance checking using residual analysis, PCA and specialized QC plots.

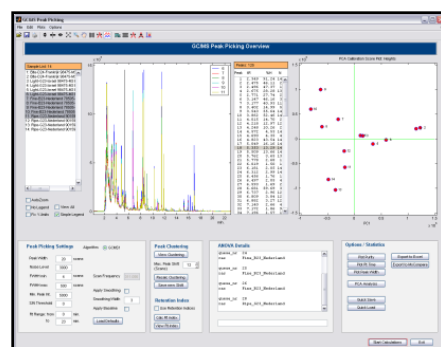
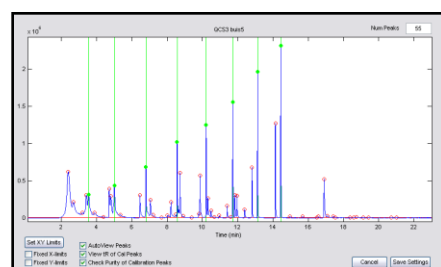
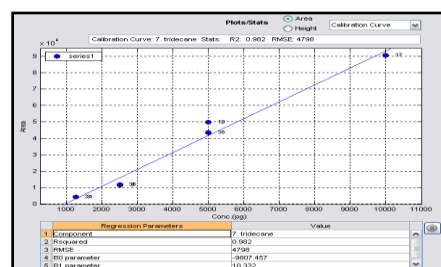
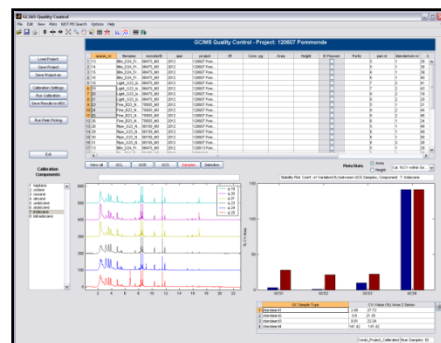
#### Peak Detection & Deconvolution

Apply full data set accurate and sensitive Peak Picking / Deconvolution based on peak height or area. The GC/MS Quant module includes optimized Peak Picking algorithms, especially developed for GC/MS. Combine Peak Picking results with ANOVA analysis of your experimental data (tech- and bio-replicates, different sample origin, treatments etc.). Run Library Searching using deconvoluted MS spectra and a direct link with NIST Search software.

#### Multivariate Statistical Analysis

Direct interactive viewing of concentration profiles, extracted ion currents and MS spectra from a GC/MS result table. View data in overlay, stacked, normalized, raw or pre-processed. View results from statistical analysis in many different graphical forms and tables. All results are linked with the ANOVA experimental setup of your study which allows easy detection and control of different sources of variation.

Copy results from the GC/MS QC module to MsCompare, our specialized module for Biomarker Discovery and Metabolomics.



MsXelerator: *Accelerating Data Analysis in LC-MS*

- Drug Metabolite Profiling
- Differential Analysis
- Proteomics
- Biomarker Discovery
- GC-MS Data Processing

MsMetric

www.MsMetric.com

