

GCMS-QP2010 GCMSsolution Part 1

The Compound Finder's Detection of Target Compounds

The GCMSsolution software (Ver. 2) for the GCMS-QP2010 incorporates a function of Compound Finder to detect target component peaks in a chromatogram obtained by scan measurement. This data sheet explains the function of a Compound Finder. Fig. 1 shows the total ion chromatogram (TIC) which

was obtained by analyzing the controlled pesticides simazine and thiobencarb sample using the scan method. Despite many impurity peaks, the simazine and thiobencarb could be detected using the Compound Finder function after simple operation.

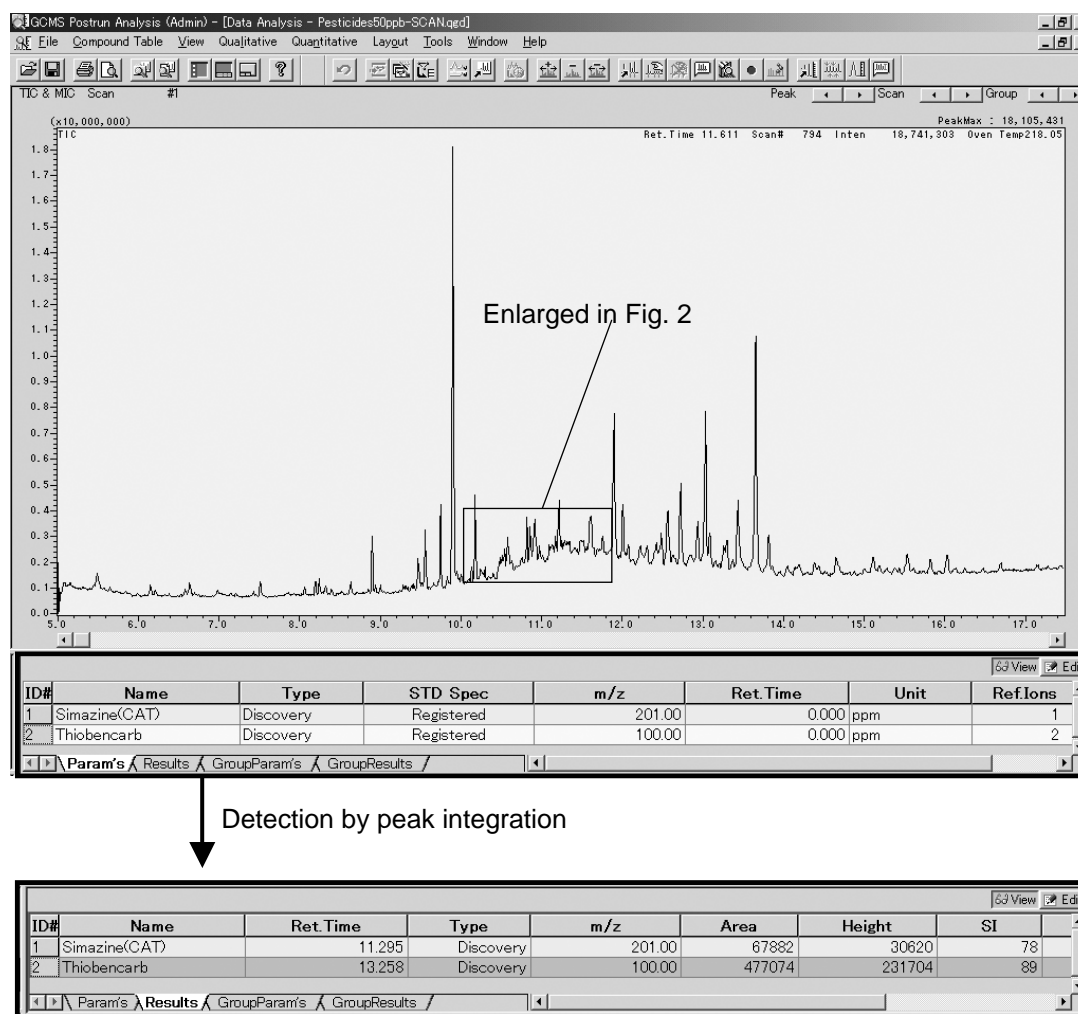


Fig. 1 GCMSsolution Reanalysis Screen

The compound Finder could detect both simazine and thiobencarb. The result of simazine is reported . Fig. 2 shows an enlarged chromatogram and mass spectrum

detected at the retention time indicated in Fig. 1. Fig. 3 shows the library search results.

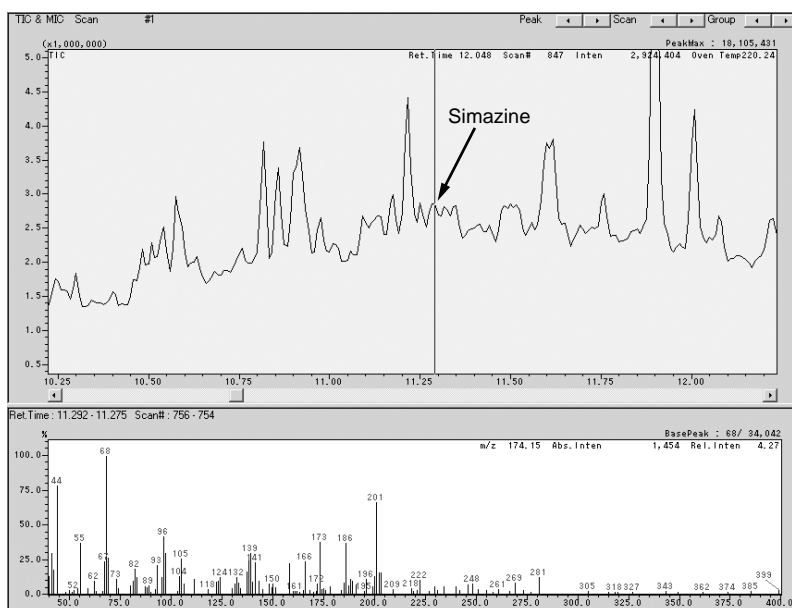


Fig. 2 Total Ion Chromatogram and Mass Spectrum

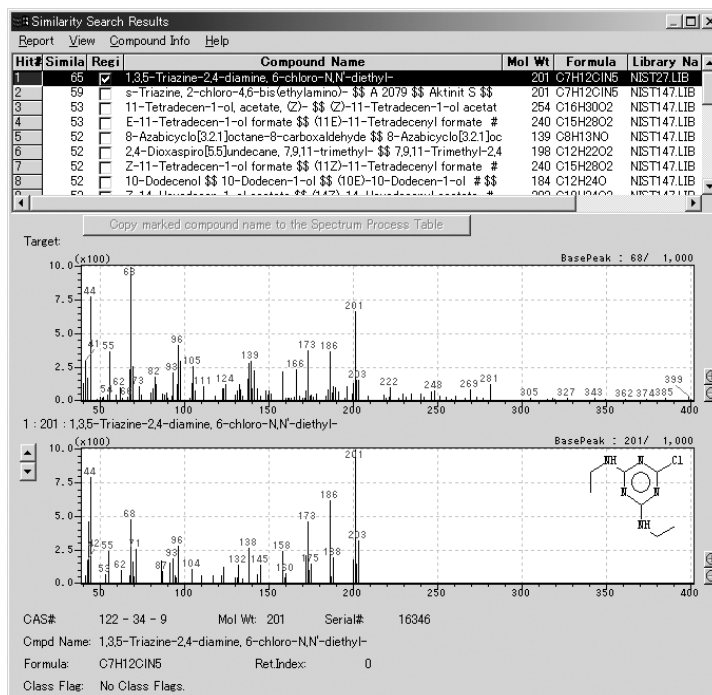


Fig. 3 Library Search Results

The Compound Finder function could detect the small target peaks among the many impurity peaks. In addition to detecting trace target components, as in this example, the Compound Finder function allows

automatic determination of the retention time of the target compounds. It is very convenient function for the quantitation analysis.



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