

# MT Explorer 50

## Interfaced with DS-sESI Ion Source for Small Molecule Applications

A compact tandem mass analyzer lets you bring laboratory capability with you wherever you want to go.

### Features:

Analysis of semi- and low-volatile compounds,  
including explosives

Various dopants can be used

Fast Response

No sample preparation

MS and MS/MS capability

Mass accuracy: 0.3 Da

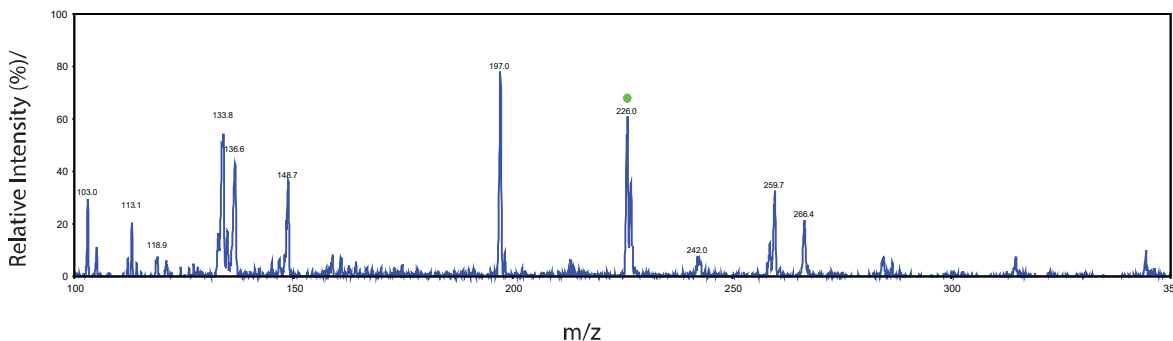
Weight: 75 lbs

Dimension: 12" x 17" x 20"

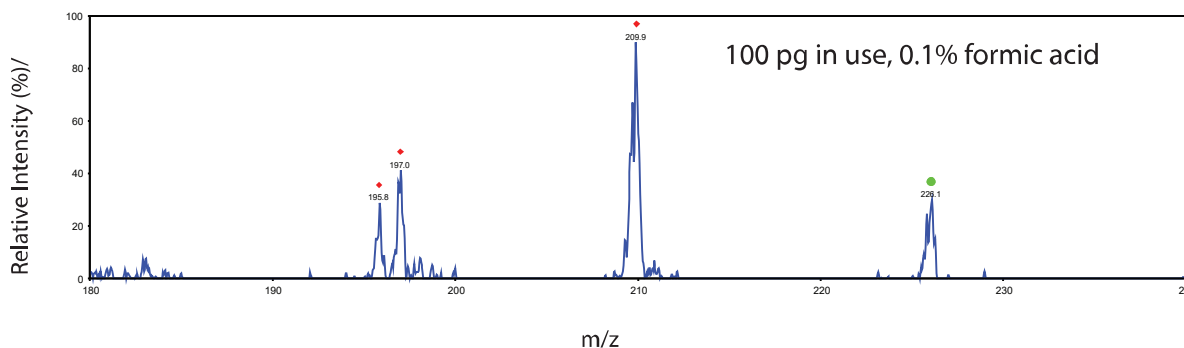


MT Explorer 50 in combination with MasTech Direct Sampling Atmospheric Pressure Secondary Electro spray Ionization Source (DS-sESI)

### Detection of Explosives

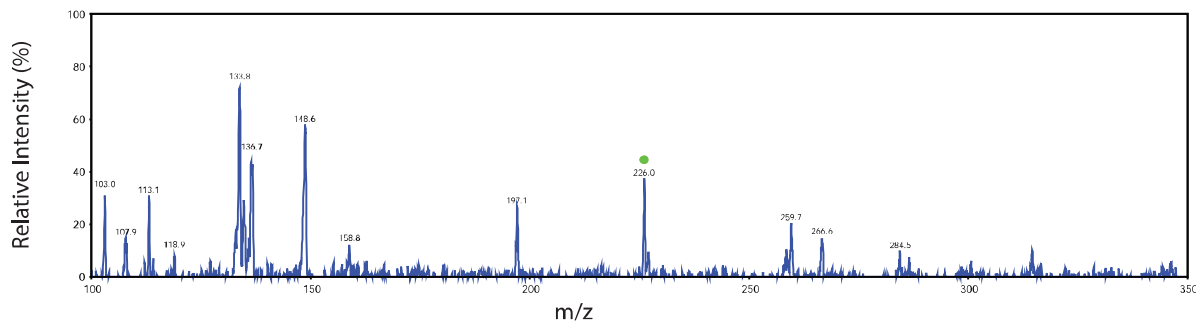


DS-sESI MS (above) and MS/MS (below) spectra of TNT. Direct injection. The molecular ion is indicated with green circle; fragment ions are indicated with red diamonds.

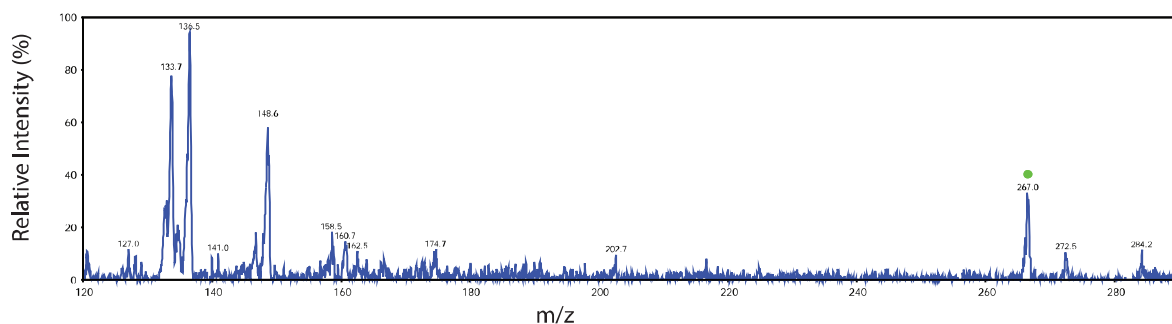


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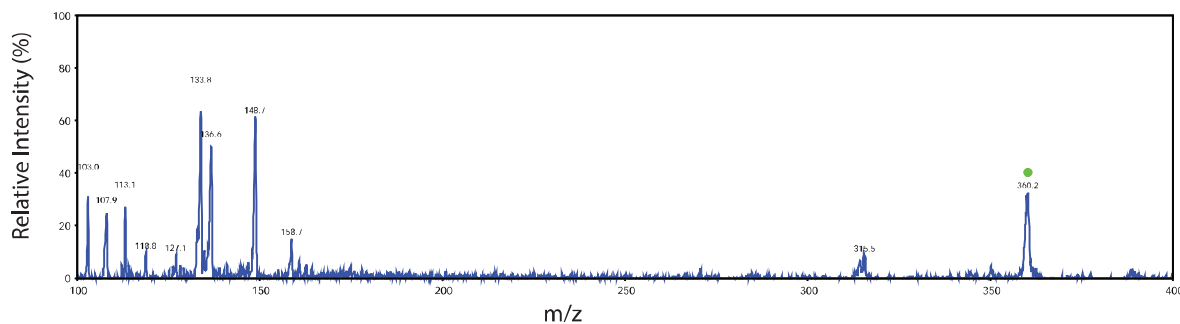
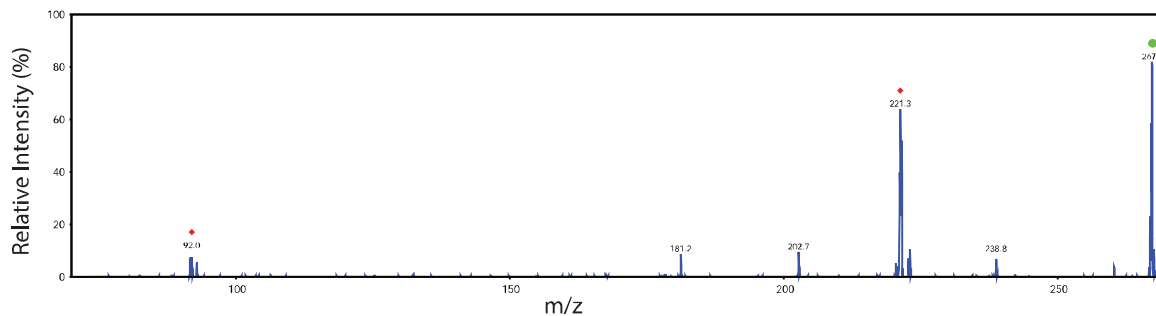
## Detection of Explosives



Solid probe of 100 pg of TNT; MS mode; 0.1% formic acid.



DS-sESI MS (above) and MS/MS spectra (below) of 10 ng RDX by direct injection. The molecular ion is indicated with green circle; fragment ions are indicated with red diamonds. 0.1% formic acid.



DS-sESI MS spectra of 10 ng PETN (above). 0.1% formic acid.