OVERVIEW


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An experimental instrument incorporating IMS
and TOF-MS, has been combined with nanoscale and TOF-MS, has been combined with na
LC and used to analyse complex peptide mixtures.
Thixures.
The mobility drift time of singly charged species
is different from multiply charged ions of the is different trom multiply charged ions of the
same $m / z$ Through the post processing removal
of singly charged ions from the datate dramatic same $\mathrm{m} / \mathrm{z}$. Through he post processing removal
of singly charged ions from the data, dramatic
signal to onoise enhancements san be achieved. signal ro nise enhancements can be achieved.
The High Duty cycle mode of poration provid
a signal increase for a chosen charge state. Inducing fragmentation after che IMS separation
results in framenents and precursors which exhibit results in fragments and precursors which
the same drift time, providing additional specificity.
specicxitr
The extrons dimen of separation provided by
ims could potentiatly have benefits in the
processing processing of datat generated in experiments
where all ions are transmitted through the quadrupole and fragmented simultaneously. References

 [2]]. Silve e eol. Anol. Chem, 2005, 77, 2187 .

