

APPENDIX 1

Abbreviations used in Mass Spectrometry

ADC	analog-to-digital converter
AE	appearance energy
AMS	accelerator mass spectrometry
amu	atomic mass unit, now u
AP	appearance potential
APCI	atmospheric-pressure chemical ionisation
B	magnetic sector mass analyser; magnetic field strength (in italics)
B/E	magnetic sector linked scan constant for fragment ions
B ² /E	magnetic sector linked scan constant for precursor or parent ions
CA	collisional activation
CAD	collisionally activated dissociation
CE	capillary electrophoresis
CF-FAB	continuous-flow fast atom (or ion) bombardment
CI	chemical ionisation
CID	collision-induced dissociation
CR	charge reversal
Da	Dalton
DE	delayed extraction, also time-lag focusing (TLF)
E	electric sector mass analyser; electric sector voltage
EA	electron affinity
ECD	electron-capture dissociation
EE	even-electron ion
EI	electron ionisation; electron impact
EM	electron multiplier
ESI	electrospray ionisation

ESI-MS or ESIMS	electrospray ionisation mass spectrum, spectrometry or spectrometer
e	charge of an electron; one electron has a charge of 1.602×10^{-19} Coulombs (C)
eV	electron volt
FA	flowing afterglow
FAB	fast-atom bombardment
FD	field desorption
FFR	field free region
FT-ICR	Fourier-transform ion cyclotron resonance, also FT-MS
FWHM	full-width at half maximum
GC	gas chromatography or chromatograph
GC-MS	gas chromatography-mass spectrometry
ICP-MS	inductively coupled plasma mass spectrometry
ICR	ion cyclotron resonance
IE	ionisation energy
IMS	ion mobility spectrometry
IT	ion trap, also quadrupole ion trap (QIT)
kDa	kilodalton
KER	kinetic energy release
LC-MS	liquid chromatography mass spectrometry or spectrometer
LDI	laser desorption ionisation (also LD)
LSIMS	liquid secondary ion mass spectrometry
MALDI	matrix-assisted laser desorption ionisation
MCI	massive cluster impact
MCP	microchannel plate
MI	metastable ion
MIKES	mass-analysed ion kinetic energy spectrometry
MIMS	membrane introduction mass spectrometry
MRM	multiple-reaction monitoring
MS	mass spectrometer, spectrometry or spectrum
MS/MS	tandem mass spectrometry, spectrometer or spectrum; also MS^2
MW	molecular weight
m/z	mass-to-charge ratio
N	neutral molecule
nanospray	nanolitre flow electrospray ionisation
NR	neutralisation/reionisation
oa	orthogonal acceleration
OE	odd-electron ion
PA	proton affinity

PAD	post acceleration detector
PD	plasma desorption
PID	photon-induced dissociation
PSD	post-source decay
Q	quadrupole mass filter
q	quadrupole mass filter operating in rf-only mode
QET	quasi equilibrium theory
QIT	quadrupole ion trap, also IT
RTOF	reflecting time-of-flight
rf	radio frequency
SELDI	surface-enhanced laser desorption ionisation
SIC	selected ion chromatogram, also extracted ion chromatogram
SID	surface-induced dissociation
SIFT	selected-ion flow tube
SIM	selected-ion monitoring
SIMS	secondary ion mass spectrometry
SRM	selected reaction monitoring
<i>t</i>	ion flight time, time
TIC	total ion current
TLF	time-lag focusing
TOF	time-of-flight
u	unit of mass
V	volt, voltage
<i>z</i>	charge of an ion; an integer multiple of <i>e</i>