Discussion of the AMS Manual

THANKS TO ALICE DELIA AND FRANK DREWNICK!

Goal:

• Manual should be a tool for teaching New Users how to operate instrument

• Should be a repository of the combined knowledge of the AMS Group
discussion of manual

q: what do you think about the structure?

ams manual part 1: general operating procedures

theory 1
initial procedures 7
pump down 7
vent 10
signal summary 10
calibrations 13
electron multiplier 13
ionization efficiency 16
size 20
resolution 21
lens position 25
collection efficiency 26
tuning qms 28
servo travel 29
sampling 30
ms 30
tof 30
field 31

troubleshooting/diagnostics 34
leak test 34
small signals 34
quadrupole mass spectrometer 35
pumps 36
flow rate 36
chopper 36
airbeam 36
baseline 37
hardware 38
multiplier replacement 39
pump replacement 39
orifice cleaning 39
filament replacement 40
chopper replacement 41
appendix 1.1: scheduling 43
appendix 1.2: technical information 44
appendix 1.3: issues/updates 50
appendix 1.4: publications/online resources 54
appendix 1.5: basics of mass spectrometry 56

ams manual part 2: ams software

overview of ams screens 60
the main menu 60
the tof mode 61
the single particle window 66
the m/z setting window 67
the ms mode 69
user control of ams operating parameters 72
the ams parameter menu 72
the default menu 79
ams software shortcuts and keystrokes 81
the help window 81
diagnostics and tools 84
check airbeam 84
raw signal 85
particle calculator 85
description of saved data files 85
ms data files 85
tof data files 86
appendix 2.1: information saved in info and par waves 89
• What do you think needs to be deleted?
• What needs to be added?
• Distribution of Most Recent Versions (Current Version is 3.2)

  - AMS read-only ftp Site:

  - AMSIncoming Site: