

Readme File for NIES PTR-MS Data @Rudong ver1.0

by Satoshi Inomata and Hiroshi Tanimoto

National Institute for Environmental Studies, 16-2, Onogawa, Tsukuba, Ibaraki 305-8506, JAPAN

Phone: +81-29-850-2403, fax: +81-29-850-2579, e-mail: ino@nies.go.jp (S.I.)

Phone: +81-29-850-2930, fax: +81-29-850-2579, e-mail: tanimoto@nies.go.jp (H.T.)

Instrument: PTR-MS (IONICOM, S/N 05/11)

Operation: Temperature 105 °C (drift tube)
(inlet 105 °C)

Pressure 2.1 mbar (drift tube)

E/N ratio 108 Td ($U_{\text{drift}} = 400 \text{ V}$)

Mode scan mode (m/z 21-200, 0.5 s/amu)

Cycle : 00:00 ~03:45 ambient air
03:45~ 04:00 zero-air (Thermo, Model 111)
04:00~07:45 ambient air
07:45~08:00 zero-air
08:00~11:45 ambient air
11:45~11:45 zero-air
12:00~15:45 ambient air
16:00~19:45 zero-air
20:00~23:30 ambient air
22:30~23:45 standard gas
23:45~24:00 zero-air

Standard gas: Takachiho TERRA Oxidant 21
<http://www.takachiho.biz/terra/msgpmos.pdf>

Concentrations: 15-min averaged, calibrated or calculated (ppbv).
Calculated: Sensitivity = 9.1 (ncps/ppbv)