GAW World Calibration Centre (WCC) for Methane
and
Quality Assurance/Science Activity Centre (QA/SAC)
in Asia and the South-West Pacific

Methane Reference Gas Intercomparison for Japan from 2015 to 2016
Technical Details on Laboratory Measurements

National Institute for Environmental Studies (NIES)

1. Information on contributors
(1) Contributors: Dr. Toshinobu MACHIDA
(2) Organization: National Institute for Environmental Studies

2. Information on instrument
(1) Analytical method: Gas Chromatography (FID)
(2) Manufacturer: Agilent Technologie
(3) Model: 7890

3. Information on sampling
(1) Sampling volume: 10 ml
(2) Carrier gas: Nitrogen (purity >99.99995%)
(3) Flow rate: 40 ml/min
(4) Temperature of the oven: 80 ^{o}C

4. Information on the main column
(1) Diameter: OD 1/8"
(2) Length: 2 m
(3) Material: Stainless Steel

5. Information on column packings
(1) Trade name: Molecular Sieve 5A
(2) Mesh: 60/80

6. Information on standard gas
(1) Number of standard gases: 4
(2) Mole fraction of standard gases: 1310.62, 1712.71, 2097.57, 2486.92 ppb
(3) Diluent gas: Synthetic air
(4) Scale: NIES94 Scale

7. Other information (references, papers, literatures, etc.)
Pre Column: Polapak Q, 50/80 mesh, 1/8"OD x 2m