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 Asia from 2011 to 2012 Technical Details on Laboratory Measurements

China Meteorological Administration (CMA) Measurement at Mt. Waliguan

- 1. Information on contributors
- (1) Contributors: Dr. Zhou Lingxi and colleagues
- (2) Organization: China Meteorological Administration, China
- 2. Information on instrument
- (1) Analytical method: Gas Chromatography (FID)
- (2) Manufacturer: Agilent(3) Model: Agilent-6890N
- 3. Information on sampling
- (1) Sampling volume: 10 ml
- (2) Carrier gas: Nitrogen
- (3) Flow rate: 70 ml/min
- (4) Temperature of the oven: 75°C
- 4. Information on the main column
- (1) Diameter: 1/8 inch(2) Length: 3 feet
- (3) Material: stainless steel

Note: also a 4 feet pre-column of molecular sieve 5A 60-80 mesh.

- 5. Information on column packings
- (1) Trade name: Unibeads 1S
- (2) Mesh: 60-80
- 6. Information on standard gas
- (1) Number of standard gases: 2
- (2) Concentration of standard gases: 2029.0 and 1809.5 ppb
- (3) Scale: NOAA04 Scale CH₄-in-air