



**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 2008 to 2009  
Technical Details on Laboratory Measurements**

**China Meteorological Administration (CMA)**

*1. Information on contributors*

- (1) Contributors: Dr. Zhou Lingxi
- (2) Organization: China Meteorological Administration, China (CMA)

*2. Information on instrument*

- (1) Analytical method: Gas Chromatography (FID)
- (2) Manufacturer: HP
- (3) Model: HP-5890

*3. Information on sampling*

- (1) Sampling volume: 3 ml
- (2) Carrier gas: N<sub>2</sub>
- (3) Flow rate: 50 ml/min
- (4) Temperature of the oven: 40°C

*4. Information on the main column*

- (1) Diameter: 4.76 mm
- (2) Length: 3 meters
- (3) Material: stainless steel

*5. Information on column packings*

- (1) Trade name: Porapak QS
- (2) Mesh: 100-120 mesh

*6. Information on standard gas*

- (1) Number of standard gases: 1
- (2) Concentration of standard gases: 1807 ppb
- (3) Scale: NOAA 2004

*7. Other information (references, papers, literatures, etc.)*

Zhou Lingxi, Worthy DEJ, Lang PM, Ernst MK, Zhang XC, Wen YP, Li JL (2004). Ten years of atmospheric methane observations at a high elevation site in Western China. Atmospheric Environment 38: 7041-7054