



**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

*2. Information on instrument*

- (1) Analytical method: Cavity ring down spectroscopy (CRDS)
- (2) Manufacturer: Picarro
- (3) Model: G1301

*3. Information on sampling*

- (1) Sampling method: Continuous
- (2) Carrier gas: No carrier gas
- (3) Flow rate: <400 ml/min

*4. Information on measuring*

- (1) Response time: about 5 seconds
- (2) One measurement: 6min continuous sampling (discard first 3 minutes data)/ per measurement
- (3) Concentrations: average values of the last 3 minutes data.

*5. Information on standard gas*

- (1) Number of standard gases: 2
- (2) Concentration of standard gases: 1900.3, 1853.6 ppb
- (3) Scale: NOAA 2004

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