



Air Compliance Testing has been providing comprehensive air pollution testing services to industrial clients since 1993. We take pride in the quality of our services and are committed to helping industries comply with stringent air quality standards as promulgated by the EPA, state, and local agencies.

Air Compliance Testing completes over 500 emission testing projects each year. Our team of professionals has over 100 years of experience in executing complex air emission testing programs. Our team of qualified and experienced engineers, chemists, and technicians deliver quality services unsurpassed by other testing firms. We **guarantee**\* the quality of our testing services. We ensure the job is completed on time with the least amount of interruption to your site's operation as possible.

In addition to high quality, guaranteed valid emission testing, Air Compliance Testing provides assistance formulating test protocols, often negotiating with the EPA on your behalf to achieve more reasonable and/or realistic testing requirements. We also submit the required EPA Test Notifications/Protocols and Test Reports as a standard part of each testing project.

We specialize in complex test protocols, taking the time to learn our client's process, facility, and permit requirements in depth. This allows us to develop custom test protocols designed to handle the unique challenges of each emission unit.

*\*For EPA compliance emission tests, if a mistake that Air Compliance Testing makes while conducting a test invalidates the client's test results, then Air Compliance Testing will conduct additional testing services at no additional cost as necessary to bring about a valid test result.*

## TEST METHODS

### Manual Emissions Testing

- EPA Methods
- NIOSH Methods
- ASTM Methods
- CARB Methods
- SW846 Methods

### Instrumental Emission Testing

- Mobile CEMS Laboratories
- Performance Specification Testing
- CO, CO<sub>2</sub>, O<sub>2</sub>, SO<sub>2</sub>, and NO<sub>x</sub>
- Total Gaseous Organics

### Specialized Emissions Testing

- 3-D Pitot Flow Studies
- Capture Efficiency (CE) Determinations
- Thermal Oxidizer Temperature Optimization
- RCRA /TSCA Trial Burns
- VOC Emissions Profiling
- Dioxin/Furan, PAH, and PCB Emission Testing
- Boiler MACT Testing
- Mercury Speciation Determination

### Air Pollution Control Equipment Testing and Optimization

- On-Site Inspection
- Performance Data Evaluation
- Diagnostic Testing
- Equipment Specification Data
- Pilot Plant Tests

### Continuous Emissions Monitoring (CEM)

- Instrumental Mobile Laboratories
- Performance Specification Tests (PST)
- Quarterly Cylinder Gas Audits (CGA)
- Relative Accuracy Test Audits (RATA)
- Relative Accuracy Audits (RAA)
- Pollutant/Diluent Monitor Selection Criteria
- Probe Location Selection Criteria

Air Compliance Testing has experience testing a broad range of emission units and control equipment types including:

Baghouses  
Baking Ovens  
Boilers (Parts 60 and 75)  
Calciners  
Can Coating Lines  
Continuous Emission Monitoring Systems (CEMS)  
Electric Arc Furnaces (EAF's)  
Engines  
Extruders

Fluidized Catalytic Crackers  
Glycol Dehydrators  
Heaters  
Incinerators  
Lime Kilns  
Metal Coating Lines  
Paint Booths  
Paper Coating Lines  
Parametric Emission Monitoring Systems (PEMS)

Printing Presses  
Reveratory Furnaces  
Regenerative Thermal Oxidizers (RTO's)  
Scrubbers  
Sewage Sludge Incinerators  
Thermal Oxidizers  
Turbines  
Vapor Combustors  
Vapor Condensers  
And more...

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	Run 1	Run 2	Run 3	Average	Run 1	Run 2
Stack Gas Average Flow Rate (scfm)	6.93	6.98	6.92	6.94	75.50	75.50
Stack Gas Average Flow Rate (ft <sup>3</sup> /min as carbon)	750.9	762.0	753.0	755.3	214.0	214.0
Stack Gas Average Flow Rate (ft <sup>3</sup> /min as carbon)	5.66	5.71	5.66	5.67	61.74	61.74
Stack Gas Average Flow Rate (acfm)	1.807	1.810	1.828	1.815	2.29	2.29
Stack Gas Average Flow Rate (scfm)	1.368	1.358	1.363	1.362	4.12	4.12
Stack Gas Average Flow Rate (dscfm)	1.344	1.335	1.339	1.339	4.23	4.23
Stack Gas Average Velocity (fpm)	1.403	1.405	1.419	1.408	1.408	1.408
Stack Gas Average Static Pressure (in-H <sub>2</sub> O)	-0.93	-0.89	-0.96	-0.92	-0.92	-0.92
Stack Gas Average Temperature (°F)	211	214	211	212	212	212
Stack Gas Percent by Volume Moisture (%H <sub>2</sub> O)	1.80	1.71	1.77	1.76	1.76	1.76
Percent by Volume Carbon Dioxide in Stack Gas (Dry Basis) (%CO <sub>2</sub> )	0.00	0.00	0.00	0.00	0.00	0.00
Percent by Volume Oxygen in Stack Gas (Dry Basis) (%O <sub>2</sub> )	19.83	19.67	19.71	19.74	19.74	19.74
Percent by Volume Nitrogen in Stack Gas (Dry Basis) (%N <sub>2</sub> )	80.17	80.33	80.29	80.26	80.26	80.26

\* The CO<sub>2</sub> inlet ducts were rectangular in shape.

The following is a partial listing of our extensive Test Method capability:

**EPA Test Methods**

1, 1A, 2, 2A, 2C, 2D, 2E, 2F, 3, 3A, 3B, 3C, 4, 5, 5A, 5B, 5D, 5E, 6, 6C, 7E, 8, 9, 10, 11, 12, 13B, 15, 15A, 16A, 17, 18, 19, 20, 21, 22, 23, 24, 25, 25A, 25C, 25D, 25E, 26, 26A, 29, 101A, 104, 106, 201, 201A, 202, 204, 204A, 204B, 204D, 204F, 306, 308, 316, 320, 321, 415.1, ACA, ALT007, ALT012, CGA, CTM027, PS2, PS3, PS4, PS4A, PS4B, PS6, PS8, TO-11, TO-11A, TO-14, TO-8, and more ...

**SW-846 Methods**

0010, 0011, 0023A, 0030, 0060, 0050

**Other Methods**

Ontario Hydro, OSHA, various ASTM methods, various CARB methods