

Relative Accuracy Test Audit Report

Completed for:

***Gainesville Renewable Energy Center
Woody Biomass Power Plant
Biomass-fueled BFB Boiler (EU-002)***

Report Number: 20-6132-02

Testing Completed: November 15 - 18, 2013



Relative Accuracy Test Audit Report

**Gainesville Renewable Energy Center
Woody Biomass Power Plant
Woody Biomass-fueled BFB Boiler (EU-002)
Gainesville, Florida**

C.E.M. Solutions Project Number: 6132

Testing Completed: November 15 - 18, 2013

C.E.M. Solutions, Inc Report Number: 20-6132-01

C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Phone: 352-489-4337

Statement of Validity

I hereby certify the information and data provided in this emissions test report for tests performed at Gainesville Renewable Energy Center conducted on November 15 through November 18, 2013 are complete and accurate to the best of my knowledge.

Joe Conti
Quality Assurance Manager,
C.E.M. Solutions, Inc.

Declaration of Conformance to ASTM D 7036-04: Standard Practice for Competence of Air Emission Testing Bodies

C.E.M. Solutions operates in conformance with the requirements of ASTM D 7036-04: Standard Practice for Competence of Air Emission Testing Bodies through the use of a quality system which incorporates a quality manual, internal audit system, systematic training of personnel and rigorous review of test methods and operating procedures.

Joe Conti
Quality Assurance Manager,
C.E.M. Solutions, Inc.

Project Background

Name of Source Owner:	Gainesville Renewable Energy Center
Address of Owner:	11201 NW Hwy 441 Gainesville, FL 32653
Source Identification:	Facility ID: 0010131 Woody Biomass-fueled BFB Boiler Emissions Unit: 002
Location of Source:	Alachua County, Florida
Type of Operation:	SIC Code: 4911
Tests Performed:	USEPA Method 1: Traverse Points USEPA Method 2: Stack Gas Volumetric Flow and Velocity USEPA Method 3A: Determination of O ₂ and CO ₂ USEPA Method 4: Stack Gas Moisture Content USEPA Method 6C: Determination of Sulfur Dioxide USEPA Method 7E: Determination of Nitrogen Oxides USEPA Method 10: Determination of Carbon Monoxide USEPA Method 26A: Determination of HCl and HF
Test Supervisor (QSTI):	Charles Horton
Test Technicians:	Alex Houseal Matt Savin
Date(s) Tests Conducted:	November 15, 2013: HCl/HF RATA runs 1 - 6 November 16, 2013: HCl/HF RATA runs 7 - 12 November 17, 2013: High Load Flow, Gas, Moisture RATA November 18, 2013: Mid and Low Load Flow RATAs
Site Test Coordinator:	Eric Johnson, Fagen, Inc. Project Manager
State Regulatory Observers:	No Attendees

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1.0 Introduction

Fagen, Inc. retained C.E.M. Solutions, Inc. to perform a Relative Accuracy Test Audits (RATAs) at the Gainesville Renewable Energy Center's (GREC) Woody Biomass-fueled BFB Boiler (EU-002) Continuous Emissions Monitoring System (CEMS) located in Gainesville, Florida.

The test program conducted included Relative Accuracy Test Audits (RATAs) on the following CEMS analyzers:

- SO₂ concentration CEM (ppmvd)
- SO₂-diluent CEM (lb/MMBtu)
- NO_x-diluent CEM (lb/MMBtu)
- NO_x concentration CEM (ppmvd)
- O₂ concentration CEM (percent)
- Volumetric Flow (WSCFH)
- Stack Moisture Content (%)
- CO (lb/MMBtu)
- HCl (ppm)
- HF (ppm)

The test program was conducted in order to evaluate the accuracy of the Woody Biomass-fueled BFB Boiler CEMS in accordance with the United States Environmental Protection Agency (USEPA) requirements in the Code of Federal Regulations, Title 40, Part 75, Appendix A and Performance Specifications 2, 4A and 6 in Part 60, Appendix B.

The test program and results are presented and discussed in this report.

Mr. Eric Johnson of Fagen, Inc. coordinated plant operations throughout the test program. All testing was conducted in accordance with test methods promulgated by the USEPA. All conducted RATAs passed annual retesting criteria. The results of the RATAs and calculated Bias Adjustment Factors (BAF) are summarized in Table 1 below.

1.1 Errors and Omissions

At least 10 runs were conducted for each required RATA. In the case of Low Load Flow and the HCL/HF RATAs, 12 runs were conducted. Unused runs vary for each RATA and are labeled as such in the RATA tables (Tables 6 – 17). There were no runs unused due to Reference method error or Boiler operation changes. Unused runs were designated as such to improve the relative accuracy.

The HCl and HF Reference Method values are based on the laboratory minimum detection levels. For each run, levels of HCl and HF were determined to be below the detection limit of the analytical method; which means the presence of the compounds could not be accurately determined.

**Table 1: RATA Results
Gainesville Renewable Energy Center
Woody Biomass-fueled BFB Boiler**

RATA	Performance Criteria	% RA	RA Status
SO ₂ ppm	15 ppm (using absolute difference between RM and CEMS)	0.8 ppm (BAF 1.111)	Pass
SO ₂ lb/mmbtu	20.0% (using % of RM)	8.4 %	Pass
NO _x ppm	10.0% (using % of RM)	4.3 % (BAF 1.000)	Pass
NO _x lb/mmbtu	10.0% (using % of RM)	3.2 % (BAF 1.000)	Pass
CO lb/mmbtu	10.0% (using % of RM)	4.3 %	Pass
O ₂ %	1.0% (using absolute difference between RM and CEMS)	0.1 %	Pass
Moisture %	10.0% (using % of RM)	7.0 %	Pass
Flow WSCFH	10.0% (using % of RM)	2.2 % (High Load)	Pass
		2.7 % (Mid Load)	Pass
		5.2 % (Low Load)	Pass
		BAF 1.000	Pass
HCl ppm	5 ppm (using absolute difference between RM and CEMS)	0.01 ppm	Pass
HF ppm	5 ppm (using absolute difference between RM and CEMS)	0.00 ppm	Pass

2.0 Facility Description

The Biomass-fueled Bubbling Fluidized Bed Boiler (EU-002) consists of a 100 MW steam turbine electric power generator. The Woody Biomass-fueled BFB Boiler burns clean wood and is rated for a maximum heat input of 1,358 mmbtu/hr.

2.1 Process Equipment

Emission controls consist of the following:

- Nitrogen oxides (NO_x) emissions are controlled by a selective non-catalytic reduction (SNCR) system (via injection of ammonia solution into combustion flue gas).
- Sulfur dioxide (SO₂), acid gases (HCl and HF) and organic compound emissions from the Woody Biomass-fueled BFB Boiler are controlled by an in-duct sorbent injection system.
- PM, NO_x, CO and VOC emissions are controlled by efficient combustion
- Particulate matter (PM/PM10) emissions are controlled by a fabric filter (baghouse).

2.2 CEMS Equipment

The CEMS equipment installed at the Woody Biomass-fueled BFB Boiler consists of the following:

- CAI-600 extractive gas analyzer for NO_x, CO, SO₂, O₂, HCl and HF
- Trace Environmental 500 Volumetric Flow Monitor
- M&C FSS-H2 Moisture Monitor

The Relative Accuracies of the Woody Biomass-fueled BFB Boiler CEMS are required to meet the performance specifications listed in Table 2.

**Table 2: RATA Performance Specifications
Gainesville Renewable Energy Center
Woody Biomass-fueled BFB Boiler**

CEM Parameter	Engineering Units	CEM Performance Specification Reference
SO ₂ CEMS	ppmvd	40CFR75, Appendix A, 3.3.1
	lb/MMBtu	PS2 of 40CFR60, Appendix B
NO _x CEMS	lb/MMBtu	40CFR75, Appendix A, 3.3.2
	ppmvd	40CFR75, Appendix A, 3.3.7
O ₂ CEMS	%	40CFR75, Appendix A, 3.3.3
Volumetric Flow CEMS	WSCFH	40CFR75, Appendix A, 3.3.4
Moisture	%	40CFR75, Appendix A, 3.3.6
CO CEMS	lb/MMBtu	PS 4A 40CFR60, Appendix B
HCl CEMS	lb/Hr	PS 6 of 40CFR60, Appendix B
HCl CEMS	lb/MMBtu	OTM 22, Section 5.1.8
Hf CEMS	lb/Hr	PS 6 of 40CFR60, Appendix B

3.0 Test Program/Operating Conditions

The Relative Accuracy Test Audit was conducted to determine relative accuracy of the Woody Biomass-fueled BFB Boiler NO_x, SO₂, CO, O₂, HCl, HF, moisture and flow monitoring CEMS on November 15, 2013 through November 18, 2013.

Table 3 summarizes the dates on which each RATA was conducted and the gross megawatts at which the unit was operating during each RATA.

**Table 3: Test Dates and Unit Load
Gainesville Renewable Energy Center
Woody Biomass-fueled BFB Boiler**

Date	Test Conducted	Unit Load (Gross MW)
November 15, 2013	HCl and HF (runs 1 – 6)	100 MW
November 16, 2013	HCl and HF (runs 7 – 12)	100 MW
November 17, 2013	High Load Flow, Gases (NO _x , CO, SO ₂ , O ₂) Moisture	102 MW
November 18, 2013	Mid Load Flow, Low Load Flow	90 MW 73 MW

4.0 Test Methods

All testing was performed in accordance with methods approved by the USEPA and FDEP. The following discusses the methods, as well as quality assurance and sample handling procedures.

4.1 NO_x, SO₂, CO, O₂ Relative Accuracy Test Audit (RATA)

NO_x, SO₂, CO and O₂ reference method (RM) data was determined using instrument analyzer procedures. Data collected by the reference method is compared to the Woody Biomass-fueled BFB Boiler CEMS data. Mathematical equations used to determine calculated emissions standards and RATA accuracy are located in Appendix A. Table 4 summarizes the EPA methods and instrumentation:

Table 4: Summary of EPA Instrumental Reference Methods and Instrumentation
Gainesville Renewable Energy Center
Woody Biomass-fueled BFB Boiler

Pollutant	EPA Method	Instrument	Serial Number
NO _x	7E	TEI Model 42i	1200951382
SO ₂	6C	TEI Model 43i	734726464
CO	10	TEI Model 48c	48C-68846-361
CO ₂ (dilution system)	3A	TEI Model 410i	903034509
CO ₂ (full extractive)	3A	TEI Model 410i	1009241630
O ₂	3A	TEI Model 410i	1009241630

All reference method analyzers used meet or exceed applicable performance specifications detailed in the appropriate method.

NO_x, SO₂, and CO₂ gas data was collected using an in stack dilution probe, operating at a dilution ratio of 20:1 (wet basis). The sample is then sent to the gas analyzers, located in the environmentally controlled test trailer for analysis by the reference method analyzers. CO and diluent (O₂ and CO₂) gas samples were continuously extracted from the stack by a full extractive gas sample probe (dry basis). Samples were then transported to a gas sample conditioner via a heated sample line operating at 250°F or above. The gas sample conditioner lowers the dew point of the sample gas to approximately 5°C through minimum interference heat exchangers. The dry, cool sample is then sent to the gas analyzers, located in the environmentally controlled test trailer for analysis by the reference method analyzers.

Instrument outputs were recorded continuously with a Windows compatible personal computer, compiled into 15 second averages, and stored in a database for future reference.

Instrument ranges and calibration gases were chosen in accordance with each pollutant's applicable EPA method. Instrument ranges and calibration gases used are shown in Table 5:

**Table 5: Reference Method Instrument Ranges and Calibration Gases
Gainesville Renewable Energy Center
Woody Biomass-fueled BFB Boiler FFO**

Pollutant	Test Location	Calibration Span	Calibration Gases ^a
NO _x	BFB Boiler Stack	96.79 ppm	0.0 ppm NO 45.94 ppm NO 96.79 ppm NO
SO ₂	BFB Boiler Stack	50.64 ppm	0.0 ppm SO ₂ 21.14 ppm SO ₂ 50.64 ppm SO ₂
CO	BFB Boiler Stack	97.52 ppm	0.0 ppm CO 45.96 ppm CO 97.52 ppm CO
CO ₂	BFB Boiler Stack Dilution System	19.04%	0.0 % CO ₂ 9.62 % CO ₂ 19.04 % CO ₂
CO ₂	BFB Boiler Stack Full Extractive	19.07%	0.0 % CO ₂ 9.62 % CO ₂ 19.07 % CO ₂
O ₂	BFB Boiler Stack	20.37%	0.0 % O ₂ 10.03 % O ₂ 20.37 % O ₂

^a Concentrations of NO, SO₂, CO, O₂ and CO₂ are in a balance of purified nitrogen (N₂). All analyzers were zeroed with ultra high purity N₂. All calibration gases have been certified to NIST traceable standards.

Calibration gas Certificates of Analysis can be found in Appendix B.

4.2 Volumetric Flow Relative Accuracy Test Audit (RATA)

The following subsections describe the EPA Methods used to determine the Reference Method Volumetric Flow. All methods and QA/QC protocols were followed as described in the appropriate test methodologies.

4.2.1 Method 2: Determination of Velocity and Volumetric Flow with Type S Pitot Tube

Reference Method Volumetric Flow data was determined utilizing EPA Method 2.

The stack gas velocity is determined from the gas density and from measurements of the average velocity head with a Type S pitot tube. Method 3A is used to determine stack gas density and Method 4 is used to determine stack gas moisture.

4.3 Determination of Moisture Content in Stack Gases

Stack gas moisture content was determined utilizing Method 4. In Method 4, gas sample is extracted, at a rate no more than 1.0 cubic feet per minute, from the stack through a probe, inserted at least one meter from the stack wall, then sent through a set of pre-weighed impingers. Moisture is removed from the gas and collected in the impinger train. The gas exiting the sample train is maintained at a temperature less than or equal to 68 degrees Fahrenheit. The amount of gas pulled through the sample train is measured by a calibrated dry gas metering system.

At the end of the sampling run, the contents of the impingers are measured gravimetrically to the nearest 0.5 gram. Stack gas moisture is calculated based upon the impinger weight gain and the volume of gas collected.

4.3.1 Method 4 Quality Assurance/Quality Control Procedures

The moisture sampling train was leak checked prior to each test run at approximately 15 inches Hg and immediately after each run at a vacuum higher than the highest vacuum recorded during the respective test run. Results are recorded on the moisture field data sheets.

4.4 Hydrogen Halide and Halogen Determination

Hydrogen chloride and Hydrogen Fluoride were determined utilizing a USEPA Method 26A sample train.

Gaseous samples were withdrawn isokinetically from the stack and collected in an absorbing solutions. Acidic absorbing solutions collect the gaseous hydrogen halides (HCl and HF). The hydrogen halides are solubilized in the acidic solution and form chloride. The halide solutions are measured by ion chromatography.

The optional cyclone was not utilized during the test program because liquid droplets in the flue gas stream are not expected.

The sample train consisted of 4 impingers. Impingers 1 and 2 contained 100 ml of H₂SO₄, impinger 3 was empty and impinger 4 contained a pre-weighed amount of silica gel.

The O₂ and CO₂ measurements required for molecular weight determination were determined using Method 3A instrument analyzers.

The entire sampling train was glass. The probe was heated to 248 °F and the impinger bath temperature was held below 68°F. HCl and HF analysis were performed by Enthalpy Analytical of Durham, North Carolina. Laboratory results are located in Appendix E.

4.4.1 Sample Recovery and Analysis

The impingers were weighed for increase, to the nearest 0.5 gram, to determine moisture gain. The contents of the first two impingers were collected and stored on ice for delivery to the laboratory. The impingers and connecting glassware were rinse with DI water and collected for analysis as well.

Appendix D contains the analytical results for each run.

4.4.2 Quality Assurance/Quality Control Procedures

The probe nozzles were inspected and measured across three different diameters to determine the appropriate nozzle diameter.

Before and after each test run, the manometer was leveled and zeroed. Leak checks of the sampling train were conducted before and immediately after each test run.

The dry gas meter was fully calibrated within six months prior to the test program using a set of EPA critical orifices. Post test program dry meter checks were completed to verify the accuracy of the meter's Y_i.

Completed QA/QC forms are located in Appendix C.

4.5 Sampling Location/Traverse Points/Test Run Duration

The circular stack on the outlet of the BFB Boiler, at the sample location, is 143.5 inches in diameter. The emissions sampling location is 110.5 feet (1326 inches) downstream from the nearest flow disturbance, and 68.5 feet (822 inches) upstream from the stack exit. A diagram of the sample location can be viewed in Appendix C.

4.5.1 Gaseous Traverse Points and Run Durations

An initial stratification test was conducted in accordance with Section 6.5.6.1 of 40CFR75, Appendix A. A total of 12 traverse points (three points per port), located 4.4% (6.25"), 14.6% (21.0") and 29.6% (42.5") from the inside wall of the stack, were used to conduct the SO₂, NO_x, CO₂ and O₂ stratification test while the unit was operating at a steady state. Each traverse point was measured for a minimum of two (2) minutes. The sample location was determined to be unstratified and the short reference method measurement line described in section 8.1.3 of PS No. 2 (0.4, 1.2 and 2.0 meters from the inner wall of the stack) was used. The test port located at 315° was utilized for gaseous RM sampling during the RATA test.

Each point was sampled for seven minutes, equaling a total of 21 minutes per test run. A total of ten test runs were completed.

4.5.2 Volumetric Flow Traverse Points and Run Durations

Velocity traverse points were determined in accordance with EPA Method 1. A total of 12 traverse points (3 points per port, 4 ports were used) were used to complete each flow test run. Points were located at 6.31, 20.95 and 42.48 inches from the inner wall of the stack. Sufficient time was allowed for differential pressure and stack temperature readings to stabilize at each point before readings were recorded. At high load, each flow run was conducted concurrently with each gaseous test run.

4.5.3 Moisture Traverse Points and Run Durations

The moisture sample probe was inserted at least one meter inside the stack from the inner wall.

When moisture data was required to correct gaseous measurements from a dry to a wet basis, runs were conducted concurrently with the gaseous test runs for a period of 30 minutes.

4.5.4 Wet Chemistry (HCl and HF) Traverse Points and Run Durations

Method 26A traverse points were determined in accordance with EPA Method 1. A total of 12 traverse points (3 points per port, 4 ports were used) were used to complete each test run. Points were located at 6.31, 20.95 and 42.48 inches from the inner wall of the stack. Each test run was 60 minutes in duration.

4.6 Quality Assurance/Quality Control Procedures

All sampling, analytical, and Quality Assurance/Quality Control (QA/QC) procedures outlined in the EPA methods were followed. All test equipment was calibrated before or during use in the field. Interference checks, response time checks, and NO₂ to NO converter checks were performed on each instrumental analyzer, as applicable, before field use. In the field, each analyzer and the entire instrument measurement system was checked for system bias before and following each test run using the calibration gases listed in Table 4. Appendix D contains the QA/QC checks.

The reference method volumetric flow Type S Pitot tube was leak checked prior to and follow each test run. A minimum of 3" of differential vacuum was applied to each leg of the test probe and tested for a period of 1 minute.

The moisture train was leak tested before and following each test run at a vacuum equal to or higher than the highest vacuum observed during each test run.

5.0 Relative Accuracy Test Audit Results

The following presents the results of the test program. Tables 6 through 17 summarize the NO_x, SO₂, CO and volumetric flow Relative Accuracy Test Audit results, respectively. Supporting RM field data and calculated values are presented in Appendix E. CEMS support data are located in Appendix F.

5.1 NO_x RATA Results

The Woody Biomass-fueled BFB Boiler NO_x ppm CEMS relative accuracy over the nine test runs was 4.3%, passing the Part 75 performance specification of 10.0 %. The Boiler NO_x lb/mmbtu CEMS relative accuracy, over nine runs was 3.2%, passing the Part 75 performance specification of 10.0%.

5.2 SO₂ RATA Results

The average absolute difference between the Boiler SO₂ ppm CEMS and the Reference Method (RM) was 0.8 ppm, passing the Part 75 alternate performance specification of 15 ppm difference. The Boiler SO₂ lb/mmbtu CEMS relative accuracy, over nine runs was 8.4%, passing the Part 60 performance specification of 20.0% when the applicable standard is used in the RA determination.

5.3 CO RATA Results

The Boiler CO lb/mmbtu CEMS relative accuracy was 4.3%, passing the Part 60 performance specification of 10.0% when using the average RM value.

5.4 O₂ RATA Results

The average absolute difference between the Boiler Percent O₂ CEMS and the RM was 0.1% volume, passing the Part 75 performance specification of 1.0% difference.

5.5 Volumetric Flow RATA Results

The Boiler Volumetric Flow relative accuracy, at high load, was 2.2%. Relative accuracy at Mid load was 2.7% and at Low load, RA was 5.2%. Each RATA passed the Part 75 performance specification of 10.0%.

5.6 Moisture RATA Results

The Boiler Percent Moisture CEMS relative accuracy was 7.0%, passing the Part 75 performance specification of 10.0% when using the average RM value.

5.7 HCl RATA Results

The average absolute difference between the Boiler HCl CEMS and the RM was 0.01 ppm, passing the OTM 22 performance specification of 5 ppm difference.

5.8 HF RATA Results

The average absolute difference between the Boiler HF CEMS and the RM was 0.00 ppm, passing the OTM 22 performance specification of 5 ppm difference.

Table 6: NO_x ppm Relative Accuracy Test Audit Summary

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

Run Number	Date of Run	Start Time	Stop Time	Unit Load MW	NOx RM DRY ppm	NOx CEM DRY ppm	Difference Like ppm
Run 1	17-Nov	10:14:00	10:35:00	102	35.3	34.4	0.9
Run 2	17-Nov	10:55:00	11:16:00	102	32.9	33.8	-0.9
Run 3	17-Nov	11:40:00	12:01:00	102	33.8	34.2	-0.4
Run 4	17-Nov	12:20:00	12:41:00	102	33.3	33.8	-0.5
Run 5	17-Nov	13:06:00	13:27:00	102	33.6	33.5	0.1
Run 6	17-Nov	13:51:00	14:12:00	102	30.6	32.2	-1.6
Run Not Used	17-Nov	14:30:00	14:51:00	102	29.7	31.5	-1.8
Run 8	17-Nov	15:11:00	15:32:00	102	30.1	31.6	-1.5
Run 9	17-Nov	15:51:00	16:12:00	102	30.0	31.4	-1.4
Run 10	17-Nov	17:03:00	17:24:00	102	29.9	31.2	-1.3
Average:				102	32.2 ppm	32.9 ppm	-0.7 ppm

Bias Test (pass/fail): Passed
Bias Adjustment Factor: 1.000
Method of RA Determination: Part 75, Standard Emitter

Standard Deviation: 0.8345
Confidence Coefficient: 0.6414
T-Factor: 2.306
Number of runs Reported: 9

Relative Accuracy: 4.3
Maximum RA 10.0
RA Status Passed

Table 7: NO_x lb/mmBtu Relative Accuracy Test Audit Summary

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

Run Number	Date of Run	Start Time	Stop Time	Unit Load MW	NO _x RM lbs/mmBtu	CEM lbs/mmBtu	Difference Like lbs/mmBtu
Run 1	17-Nov	10:14:00	10:35:00	102	0.045	0.045	0.000
Run 2	17-Nov	10:55:00	11:16:00	102	0.044	0.044	0.000
Run 3	17-Nov	11:40:00	12:01:00	102	0.044	0.045	-0.001
Run 4	17-Nov	12:20:00	12:41:00	102	0.043	0.044	-0.001
Run 5	17-Nov	13:06:00	13:27:00	102	0.043	0.044	-0.001
Run 6	17-Nov	13:51:00	14:12:00	102	0.041	0.042	-0.001
Run 7	17-Nov	14:30:00	14:51:00	102	0.040	0.041	-0.001
Run 8	17-Nov	15:11:00	15:32:00	102	0.040	0.042	-0.002
Run 9	17-Nov	15:51:00	16:12:00	102	0.040	0.041	-0.001
Run Not Used	17-Nov	17:03:00	17:24:00	102	0.039	0.041	-0.002
Average:				102	0.042	0.043	-0.001 lbs/mmBtu

Bias Test (pass/fail): Passed
Bias Adjustment Factor: 1.000
Method of RA Determination: Part 75, Standard Emitter

Standard Deviation: 0.0006
Confidence Coefficient: 0.0005
T-Factor: 2.306
Number of runs Reported: 9

Note:
All ppm values are corrected to lbs/mmBtu NO_x
using RM CO2 and CEM O2 as diluents

Relative Accuracy: 3.2
Maximum RA 10.0
RA Status Passed

Table 8: SO₂ ppm Relative Accuracy Test Audit Summary

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

Run Number	Date of Run	Start Time	Stop Time	Unit Load MW	SO ₂ RM DRY ppm	SO ₂ CEM DRY ppm	Difference Like ppm
Run 1	17-Nov	10:14:00	10:35:00	102	1.3	0.0	1.3
Run 2	17-Nov	10:55:00	11:16:00	102	0.1	0.0	0.1
Run 3	17-Nov	11:40:00	12:01:00	102	0.3	0.0	0.3
Run 4	17-Nov	12:20:00	12:41:00	102	1.2	0.0	1.2
Run 5	17-Nov	13:06:00	13:27:00	102	0.1	0.0	0.1
Run Not Used	17-Nov	13:51:00	14:12:00	102	2.3	0.0	2.3
Run 7	17-Nov	14:30:00	14:51:00	102	0.3	0.0	0.3
Run 8	17-Nov	15:11:00	15:32:00	102	2.2	0.0	2.2
Run 9	17-Nov	15:51:00	16:12:00	102	0.3	0.0	0.3
Run 10	17-Nov	17:03:00	17:24:00	102	1.7	0.0	1.7
Average:				102	0.8 ppm	0.0 ppm	0.8 ppm

Bias Test (pass/fail): Low Emitter-Failed
Bias Adjustment Factor: 1.111
Method of RA Determination: Part 75, Low Emitter

Standard Deviation: 0.7815
Confidence Coefficient: 0.6007
T-Factor: 2.306
Number of runs Reported: 9

Relative Accuracy: 0.8 ppm
Maximum RA 15.0 ppm
RA Status Passed

Table 9: SO₂ lb/mmbtu Relative Accuracy Test Audit Summary

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

Run Number	Date of Run	Start Time	Stop Time	Unit Load MW	SO ₂ RM lbs/mmBtu	CEM lbs/mmBtu	Difference Like lbs/mmBtu
Run 1	17-Nov	10:14:00	10:35:00	102	0.002	0.000	0.002
Run 2	17-Nov	10:55:00	11:16:00	102	0.000	0.000	0.000
Run 3	17-Nov	11:40:00	12:01:00	102	0.000	0.000	0.000
Run 4	17-Nov	12:20:00	12:41:00	102	0.002	0.000	0.002
Run 5	17-Nov	13:06:00	13:27:00	102	0.000	0.000	0.000
Run Not Used	17-Nov	13:51:00	14:12:00	102	0.004	0.000	0.004
Run 7	17-Nov	14:30:00	14:51:00	102	0.000	0.000	0.000
Run 8	17-Nov	15:11:00	15:32:00	102	0.004	0.000	0.004
Run 9	17-Nov	15:51:00	16:12:00	102	0.000	0.000	0.000
Run 10	17-Nov	17:03:00	17:24:00	102	0.003	0.000	0.003
Average:				102	0.001	0.000	0.001 lbs/mmBtu

Method of RA Determination: PS2, Applicable Standard

Note:
All ppm values are corrected to lbs/mmbtu SO₂
using RM CO2 and CEM O2 as diluents

Standard Deviation: 0.0016
Confidence Coefficient: 0.0012
T-Factor: 2.306
Number of runs Reported: 9
Applicable Standard 0.029 lbs/mmBtu
Relative Accuracy: 8.4
Maximum RA 20.0
RA Status Passed

Table 10: CO lb/mmbtu Relative Accuracy Test Audit Summary

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337

Run Number	Date of Run	Start Time	Stop Time	Unit Load MW	CO RM lbs/mmBtu	CEM lbs/mmBtu	Difference Like lbs/mmBtu
Run 1	17-Nov	10:14:00	10:35:00	102	0.054	0.056	-0.002
Run 2	17-Nov	10:55:00	11:16:00	102	0.056	0.059	-0.003
Run 3	17-Nov	11:40:00	12:01:00	102	0.051	0.051	0.000
Run 4	17-Nov	12:20:00	12:41:00	102	0.054	0.052	0.002
Run 5	17-Nov	13:06:00	13:27:00	102	0.051	0.051	0.000
Run 6	17-Nov	13:51:00	14:12:00	102	0.050	0.052	-0.002
Run 7	17-Nov	14:30:00	14:51:00	102	0.052	0.055	-0.003
Run 8	17-Nov	15:11:00	15:32:00	102	0.051	0.050	0.001
Run 9	17-Nov	15:52:00	16:13:00	102	0.048	0.049	-0.001
Run Not Used	17-Nov	17:03:00	17:24:00	102	0.055	0.041	0.014
Average:				102	0.052	0.053	-0.001 lbs/mmBtu

Method of RA Determination: Average RM Value

Note:
All ppm values are corrected to lbs/mmBtu CO
using RM O2 and CEM O2 as diluents

Standard Deviation: 0.0018
Confidence Coefficient: 0.0014
T-Factor: 2.306
Number of runs Reported: 9
Applicable Standard: 0.08 lbs/mmBtu
Relative Accuracy: 4.3 %
Maximum RA 10.0 %
RA Status Passed

Table 11: O₂ Percent Volume Relative Accuracy Test Audit Summary

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337

Run Number	Date of Run	Start Time	Stop Time	Unit Load MW	O ₂ RM DRY % V/V	O ₂ CEM DRY % V/V	O ₂ Difference Like % V/V
Run Not Used	17-Nov	10:14:00	10:35:00	102	3.1	3.2	-0.1
Run 2	17-Nov	10:55:00	11:16:00	102	3.1	3.2	-0.1
Run 3	17-Nov	11:40:00	12:01:00	102	3.2	3.3	-0.1
Run 4	17-Nov	12:20:00	12:41:00	102	3.2	3.3	-0.1
Run 5	17-Nov	13:06:00	13:27:00	102	3.2	3.3	-0.1
Run 6	17-Nov	13:51:00	14:12:00	102	3.2	3.3	-0.1
Run 7	17-Nov	14:30:00	14:51:00	102	3.2	3.3	-0.1
Run 8	17-Nov	15:11:00	15:32:00	102	3.2	3.3	-0.1
Run 9	17-Nov	15:52:00	16:13:00	102	3.2	3.3	-0.1
Run 10	17-Nov	17:03:00	17:24:00	102	3.2	3.2	0.0
Average:				102	3.2 %	3.3 %	-0.1 %

Method of RA Determination: Part 75, 1% Volume Difference

Standard Deviation: 0.0333
Confidence Coefficient: 0.0256
T-Factor: 2.306
Number of runs Reported: 9

Relative Accuracy: 0.1
Maximum RA 1.0
RA Status Passed

Table 12: Percent Moisture Relative Accuracy Test Audit Summary

Test Performed For:
Fagen
GREC
BFB Boiler (002)
RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

<u>Run Number</u>	<u>Date of Run</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Unit Load MW</u>	<u>H2O RM %</u>	<u>H2O CEM %</u>	<u>Difference Like %</u>
Run Not Used	17-Nov	10:14:00	10:35:00	102	23.4	20.7	2.7
Run 2	17-Nov	10:55:00	11:16:00	102	21.3	21.0	0.3
Run 3	17-Nov	11:40:00	12:01:00	102	22.8	23.4	-0.6
Run 4	17-Nov	12:20:00	12:41:00	102	21.8	23.7	-1.9
Run 5	17-Nov	13:00:00	13:21:00	102	22.1	23.5	-1.4
Run 6	17-Nov	13:51:00	14:12:00	102	22.8	23.9	-1.1
Run 7	17-Nov	14:30:00	14:51:00	102	21.4	23.5	-2.1
Run 8	17-Nov	15:11:00	15:32:00	102	22.7	22.8	-0.1
Run 9	17-Nov	15:51:00	16:12:00	102	21.7	22.2	-0.5
Run 10	17-Nov	17:03:00	17:24:00	102	22.3	23.5	-1.2

Average: 102 22.1 % 23.1 % -1.0 %

Method of RA Determination: **Part 75, Average RM Value**

Standard Deviation: 0.7742
Confidence Coefficient: 0.5951
T-Factor: 2.306
Number of runs Reported: 9

Relative Accuracy: 7.0
Maximum RA 10.0
RA Status Passed

Table 13: High Load Volumetric Flow Relative Accuracy Test Audit Summary

Test Performed For:
Fagen
GREC
Unit 1
High Load Flow
Date: 11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

<u>Run Number</u>	<u>Date of Run</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Unit Load MW</u>	<u>FLOW RM WSCFH</u>	<u>FLOW CEM WSCFH</u>	<u>Difference Like SCFH</u>
Run 1	17-Nov	10:14:00	10:35:00	102	18090000	17861000	229000
Run 2	17-Nov	10:55:00	11:16:00	102	17744000	18411000	-667000
Run 3	17-Nov	11:40:00	12:01:00	102	18386000	18455000	-69000
Run 4	17-Nov	12:20:00	12:41:00	102	18614000	18678000	-64000
Run 5	17-Nov	13:00:00	13:21:00	102	18783000	18887000	-104000
Run 6	17-Nov	13:51:00	14:12:00	102	18308000	18411000	-103000
Run Not Used	17-Nov	14:30:00	14:51:00	102	16474000	18457000	-1983000
Run 8	17-Nov	15:11:00	15:32:00	102	18438000	18911000	-473000
Run 9	17-Nov	15:51:00	16:12:00	102	18345000	18749000	-404000
Run 10	17-Nov	17:03:00	17:24:00	102	18686000	18698000	-12000

Average: 102 18,377,111.1 SCFH 18,562,333.3 SCFH -185,222.2 SCFH

Bias Test (pass/fail): Passed
Bias Adjustment Factor: 1.000
Method of RA Determination: Part 75, Standard Emitter

Standard Deviation: 275212.5441
Confidence Coefficient: 211546.7089
T-Factor: 2.306
Number of runs Reported: 9

Relative Accuracy: 2.2
Maximum RA 10.0
RA Status Passed

Table 14: Mid Load Volumetric Flow Relative Accuracy Test Audit Summary

Test Performed For:
Fagen
GREC
BFB Boiler (002)
Mid Load Flow
Date: 11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

<u>Run Number</u>	<u>Date of Run</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Unit Load MW</u>	<u>FLOW RM WSCFH</u>	<u>FLOW CEM WSCFH</u>	<u>Difference Like SCFH</u>
Run 1	18-Nov	8:50:00	8:58:00	90	16424000	16541000	-117000
Run 2	18-Nov	9:00:00	9:06:00	90	16528000	16605000	-77000
Run 3	18-Nov	9:07:00	9:14:00	90	16583000	17111000	-528000
Run 4	18-Nov	9:43:00	9:49:00	90	16252000	16224000	28000
Run 5	18-Nov	9:50:00	9:56:00	90	16621000	17199000	-578000
Run 6	18-Nov	10:05:00	10:10:00	90	16049000	16253000	-204000
Run Not Used	18-Nov	10:30:00	10:35:00	90	16586000	15620000	966000
Run 8	18-Nov	10:36:00	10:41:00	90	16313000	15791000	522000
Run 9	18-Nov	10:42:00	10:48:00	90	16391000	16973000	-582000
Run 10	18-Nov	10:54:00	11:00:00	90	16544000	16205000	339000
Run 11	18-Nov						
Run 12	18-Nov						
Average:				90	16,411,666.7 SCFH	16,544,666.7 SCFH	-133,000.0 SCFH

Bias Test (pass/fail): Passed
Bias Adjustment Factor: 1.000
Method of RA Determination: Part 75, Standard Emitter

Standard Deviation: 393988.2612
Confidence Coefficient: 302845.6435
T-Factor: 2.306
Number of runs Reported: 9

Relative Accuracy: 2.7
Maximum RA 10.0
RA Status Passed

Table 15: Low Load Volumetric Flow Relative Accuracy Test Audit Summary

Test Performed For:
Fagen
GREC
BFB Boiler (002)
Low Load Flow
Date: 11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

<u>Run Number</u>	<u>Date of Run</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Unit Load MW</u>	<u>FLOW RM WSCFH</u>	<u>FLOW CEM WSCFH</u>	<u>Difference Like SCFH</u>
Run 1	18-Nov	12:48:00	12:54:00	73	12669000	13768000	-1099000
Run Not Used	18-Nov	12:55:00	13:00:00	73	12320000	13922000	-1602000
Run Not Used	18-Nov	13:01:00	13:07:00	73	12044000	13936000	-1892000
Run Not Used	18-Nov	13:31:00	13:37:00	73	12544000	14175000	-1631000
Run 5	18-Nov	13:38:00	13:43:00	73	13830000	13421000	409000
Run 6	18-Nov	13:45:00	13:52:00	73	13827000	14223000	-396000
Run 5	18-Nov	14:18:00	14:25:00	73	14653000	14487000	166000
Run 8	18-Nov	14:26:00	14:32:00	73	14699000	14447000	252000
Run 9	18-Nov	14:33:00	14:40:00	73	14858000	14460000	398000
Run 10	18-Nov	15:12:00	15:22:00	73	14937000	14075000	862000
Run 11	18-Nov	15:23:00	15:33:00	73	14864000	13970000	894000
Run 12	18-Nov	15:34:00	15:44:00	73	15002000	14221000	781000
Average:				73	14,371,000.0 SCFH	14,119,111.1 SCFH	251,888.9 SCFH

Bias Test (pass/fail): Passed
Bias Adjustment Factor: 1.000
Method of RA Determination: Part 75, Standard Emitter

Standard Deviation: 648321.9579
Confidence Coefficient: 498343.4783
T-Factor: 2.306
Number of runs Reported: 9

Relative Accuracy: 5.2
Maximum RA 10.0
RA Status Passed

Table 16: HCl ppm Relative Accuracy Test Audit Summary

Test Performed For:
Fagen
GREC
Boiler
HCl
Date:11/15/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 E. Overdrive Circle
Hernando, FL 34442
Ph: 352-489-4337

<u>Run Number</u>	<u>Date of Run</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Unit Load MW</u>	<u>HCl RM* ppm</u>	<u>HCl CEM ppm</u>	<u>Difference like ppm</u>
Run 1	15-Nov	9:39:00	10:49:00		0.00	0.01	-0.01
Run 2	15-Nov	11:14:00	12:21:00		0.00	0.01	-0.01
Run 3	15-Nov	12:46:00	1:52:00		0.00	0.00	0.00
Run 4	15-Nov	14:17:00	15:23:00		0.00	0.01	-0.01
Run 5	15-Nov	15:44:00	16:51:00		0.00	0.01	-0.01
Run 6	15-Nov	17:09:00	18:14:00		0.00	0.00	0.00
Run 7	16-Nov	9:01:00	10:06:00		0.00	0.03	-0.03
Run 8	16-Nov	10:25:00	11:30:00		0.00	0.00	0.00
Run 9	16-Nov	11:48:00	12:53:00		0.00	0.00	0.00
Not Used	16-Nov	13:15:00	14:19:00		0.00	0.00	0.00
Not Used	16-Nov	14:39:00	16:01:00		0.00	0.01	-0.01
Not Used	16-Nov	16:23:00	17:28:00		0.00	0.00	0.00
Average:					0.00 ppm	0.01 ppm	-0.01 ppm

Standard Deviation: 0.0097
Confidence Coefficient: 0.0075
T-Factor: 2.306
Number of runs Reported: 9

Method of RA Determination: OTM 22, Section 5.1.8, 5 ppm rule

Relative Accuracy: 0.01 ppm
Maximum RA 5 ppm
RA Status Passed

* RM HCl laboratory analysis values were below detection limits

Table 17: HF ppm Relative Accuracy Test Audit Summary

Test Performed For:

Fagen

GREC

Boiler

HCl

Date:11/15/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

<u>Run Number</u>	<u>Date of Run</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Unit Load MW</u>	<u>HF RM* ppm</u>	<u>HF CEM ppm</u>	<u>Difference like ppm</u>
Run 1	15-Nov	9:39:00	10:49:00		0.00	0.00	0.00
Run 2	15-Nov	11:14:00	12:21:00		0.00	0.00	0.00
Run 3	15-Nov	12:46:00	1:52:00		0.00	0.00	0.00
Run 4	15-Nov	14:17:00	15:23:00		0.00	0.00	0.00
Run 5	15-Nov	15:44:00	16:51:00		0.00	0.00	0.00
Run 6	15-Nov	17:09:00	18:14:00		0.00	0.00	0.00
Run 7	16-Nov	9:01:00	10:06:00		0.00	0.00	0.00
Run 8	16-Nov	10:25:00	11:30:00		0.00	0.00	0.00
Run 9	16-Nov	11:48:00	12:53:00		0.00	0.00	0.00
Not Used	16-Nov	13:15:00	14:19:00		0.00	0.00	0.00
Not Used	16-Nov	14:39:00	16:01:00		0.00	0.00	0.00
Not Used	16-Nov	16:23:00	17:28:00		0.00	0.00	0.00
Average:				0.0	0.00 ppm	0.00 ppm	0.00 ppm

Method of RA Determination: OTM 22, Section 5.1.8, 5 ppm rule

Standard Deviation: 0.0000
 Confidence Coefficient: 0.0000
 T-Factor: 2.306
 Number of runs Reported: 9

Relative Accuracy: 0.00 ppm
 Maximum RA 5 ppm
RA Status Passed

* RM HF laboratory analysis values were below detection limits

Appendix A: Mathematical Equations

Relative Accuracy Calculations

Average

The average is referred to in 40 CFR 60, Subpart A, Sect 60.8, subsection f as the arithmetic mean of the results of the runs. The algebraic expression used to return this result is found in 40 CFR 60, App B, Spec 2, Section 8.1 and is represented below.

$$\bar{d} = \frac{1}{n} \sum_{i=1}^n d_i \quad (\text{Eq. 2-1})$$

Where:

$\bar{d}$ = The arithmetic mean

n = The number of data points

$\sum_{i=1}^n d_i$ = The algebraic sum of the individual differences d_i .

Standard Deviation

As given in 40 CFR 60, performance specification 2, section 8.2, the standard deviation is calculated as follows:

$$S_d = \left[\frac{\sum_{i=1}^n d_i^2 - \frac{\left(\sum_{i=1}^n d_i \right)^2}{n}}{n - 1} \right] \quad \text{Eq. 2-2}$$

Where:

d_i = The individual differences

n = The number of data points

$\sum_{i=1}^n d_i$ = The algebraic sum of the individual differences d_i .

Relative Accuracy Calculations, continued

Confidence Coefficient

As given in 40CFR 60, Performance Specification 2, Section 8.3, the Confidence Coefficient is calculated as follows:

$$CC = t_{0.975} \frac{S_d}{\sqrt{n}}$$

Where:

$t_{0.975}$ = t-value (see Table 2-1)

Table 2-1 (t-values)

n^a	$t_{0.975}$	n^a	$t_{0.975}$	n^a	$t_{0.975}$
2	12.706	7	2.447	12	2.201
3	4.303	8	2.365	13	2.179
4	3.182	9	2.306	14	2.160
5	2.776	10	2.262	15	2.145
6	2.571	11	2.228	16	2.131

^a The values in this table are already corrected for n-1 degrees of freedom. Use n equal to the number of individual values.

Relative Accuracy

As given in 40CFR 60, Performance Specification 2, Section 8.4, the Relative Accuracy is calculated as follows:

$$RA = \frac{|\bar{d}| + |CC|}{\overline{RM}} \times 100$$

Where:

$|\bar{d}|$ = Absolute Value of the mean differences

$|CC|$ = Absolute value of the confidence coefficient

$\overline{RM}$ = Average RM value or applicable standard

Relative Accuracy Calculations, continued

Bias Test

If the mean difference, $|\bar{d}|$, is less than or equal to the absolute value of the confidence coefficient, $|CC|$, the monitor or monitoring system has passed the bias test.

When the monitor or monitoring system has failed the bias test, then the bias adjustment factor (BAF) is determined utilizing equation A-12 of 40CFR75, Appendix A:

$$BAF = 1 + \frac{|\bar{d}|}{CEM_{avg}} \quad \text{Eq. A-12}$$

Where:

BAF = Bias adjustment factor, rounded to the nearest thousandth

$|\bar{d}|$ = Absolute Value of the mean differences

CEM_{avg} = Mean of the data values provided by the monitor during the failed bias test

Calibrations

Analyzer Calibration Error

The analyzer calibration error (ACE) is calculated in accordance with 40 CFR 60, App. B, Meth. 7E, Sect 12.2. The algebraic expression used to return this result is:

$$ACE = \frac{C_{Dir} - C_v}{CS} \times 100 \quad \text{Eq. 7E-1}$$

Where:

ACE = Analyzer Calibration Error, percent of calibration span
C_{Dir} = Measured concentration of a calibration gas (low, mid, or high)
when introduced in direct calibration mode, ppmv
C_v = Manufacturer certified concentration of a calibration gas (low, mid, or high), ppmv
CS = Calibration span, ppmv

System Bias

The System Bias is calculated in accordance with 40 CFR 60, App. B, Meth. 7E, Sect 12. The algebraic expression used to return this result is:

$$SB = \frac{C_s - C_{Dir}}{CS} \times 100 \quad \text{Eq. 7E-2}$$

Where:

SB = System bias, percent of calibration span.
C_s = Measured concentration of a calibration gas (low, mid, or high)
when introduced in system calibration mode, ppmv
C_{Dir} = Measured concentration of a calibration gas (low, mid, or high)
when introduced in direct calibration mode, ppmv
CS = Calibration span, ppmv

Drift Assessment

The low level and upscale drift over each test run is calculated in accordance with 40 CFR 60, App. B, Meth. 7E, Sect 12.5. The algebraic expression used to return this result is:

$$D = |SB_{final} - SB_i| \quad \text{Eq. 7E-4}$$

Where:

D = Drift assessment, percent of calibration span
SB_{final} = Post-run system bias, percent of calibration span
SB_i = Pre-run system bias, percent of calibration span

Effluent Gas Concentration

The average calibration results are calculated in accordance with 40 CFR 60, App. B, Meth. 7E, Sect 12.6. The algebraic expression used to return this result is:

$$C_{Gas} = (C_{avg} - C_O) \frac{C_{MA}}{C_M - C_O} \quad \text{Eq. 7E-5}$$

Where:

C_{Gas} = Average effluent gas concentration adjusted for bias, ppmv
C_{Avg} = Average unadjusted gas concentration indicated by data recorder for the test run, ppmv
C_O = Average of the initial and final system calibration bias (or 2-point calibration error) check responses from the low-level (or zero) calibration gas, ppmv
C_{MA} = Actual concentration of the upscale calibration gas, ppmv
C_M = Average of initial and final system calibration bias (or 2-point calibration error) check responses for the upscale calibration gas, ppmv

Method 2 Mathematical Explanations

Nomenclature

A = Cross-sectional area of stack, m^2 (ft^2).

B_{ws} = Water vapor in the gas stream (from Method 4 (reference method) or Method 5),
proportion by volume.

C_p = Pitot tube coefficient, dimensionless.

$C_{p(s)}$ = Type S pitot tube coefficient, dimensionless.

$C_{P(std)}$ = Standard pitot tube coefficient; use 0.99 if the coefficient is unknown and the
tube is designed according to the criteria of Sections 6.7.1 to 6.7.5 of the method.

D_e = Equivalent diameter.

K = 0.127 mm H_2O (metric units). 0.005 in H_2O (English units).

K_p = Velocity equation constant.

L = Length.

M_d = Molecular weight of stack gas, dry basis (see Section 8.6), g/g – mole (lb/lb – mole).

M_s = Molecular weight of stack gas, wet basis, g/g – mole (lb/lb – mole).

n = Total number of traverse points.

P_{bar} = Barometric pressure at measurement site, mm Hg (in. Hg).

P_g = Stack static pressure, mm Hg (in. Hg).

P_s = Absolute stack pressure ($P_{bar} + P_g$), mm Hg (in. Hg).

P_{std} = Standard absolute pressure, 760 mm Hg (29.92 in. Hg).

Q_{sd} = Dry volumetric stack gas flow rate corrected to standard conditions,
dscm/hr
(dscf/hr).

T = Sensitivity factor for differential pressure gauges.

T_s = Stack temperature, °C (°F).

T_{s(abs)} = Absolute stack temperature, °K (°R).

= 273 + T_s for metric units.

= 460 + T_s for English units.

T_{std} = Standard absolute temperature, 293°K (528°R).

V_s = Average stack gas velocity m/sec (ft/sec), unadjusted.

$\hat{V}_{final(k)}$ = The final wall effects-adjusted average stack gas velocity that replaces the unadjusted average stack gas velocity obtained using Method 2 on run k of a RATA, actual ft/sec

W = Width.

Δp = Velocity head of stack gas, mm H₂O (in. H₂O).

Δp_i = Individual velocity head reading at traverse point “i”, mm (in.) H₂O.

Δp_{std} = Velocity head measured by the standard pitot tube, cm (in.) H₂O.

Δp_s = Velocity head measured by the Type S pitot tube, cm (in.) H₂O.

3600 = Conversion Factor, sec/hr.

18.0 = Molecular weight of water, g/g – mole (lb/lb – mole).

Equations

The sensitivity factor for differential pressure gauges “T” is calculated in accordance with 40 CFR 60, App. A-1, Meth. 2, Sect 12.2, and equation 2-1.

$$T = \frac{\sum_{i=1}^n \sqrt{\Delta p_i + K}}{\sum_{i=1}^n \sqrt{\Delta p_i}}$$

Equivalent diameter “D_e” is calculated in accordance with 40 CFR 60, App. A-1, Meth. 2, Sect 12.3, and equation 2-2.

$$D_e = \frac{2LW}{L + W}$$

Dimensionless type S pitot tube coefficient “ $C_{p(s)}$ ” is calculated in accordance with 40 CFR 60, App. A-1, Meth. 2. Sect 12.4.1, and equation 2-3.

$$C_{p(s)} = C_{p(std)} \sqrt{\frac{\Delta p_{std}}{\Delta p}}$$

The deviations of the dimensionless type S pitot tube coefficient “ $C_{p(s)}$ ” from the dimensionless pitot tube coefficient is calculated in accordance with 40 CFR 6, App. A-1, Meth. 2. Sect 12.4.3, and equation 2-4.

$$Deviation = C_{p(s)} - \bar{C}_{p(AorB)}$$

The average deviation from the mean for both A and B sides of the pitot tube is calculated in accordance with 40 CFR 6, App. A-1, Meth. 2. Sect 12.4.4, and equation 2-5.

$$\sigma_{AorB} = \frac{\sum_{i=1}^3 |C_{p(s)} - \bar{C}_{p(AorB)}|}{3}$$

Molecular weight of stack gas, wet basis, g/g-mole (lb/lb-mole) “ M_s ” is calculated in accordance with 40 CFR 6, App. A-1, Meth. 2. Sect 12.5, and equation 2-6.

$$M_s = M_d (1 - B_{ws}) + 18.0 B_{ws}$$

Average stack gas velocity, m/sec (ft/sec) “ V_s ” is calculated in accordance with 40 CFR 6, App. A-1, Meth. 2. Sect 12.6, and equation 2-7.

$$85.49 \frac{m}{sec} \left[\frac{(lb / lb - mole)(in.Hg)}{(^{\circ}R)(in.H_2O)} \right]^{\frac{1}{2}}$$

Average dry volumetric stack gas flow rate “ Q ” (dscfh) is calculated in accordance with 40 CFR 6, App. A-1, Meth. 2. Sect 12.7, and equation 2-8.

$$Q = 3600(1 - B_{ws}) V_s A \left[\frac{T_{std} P_s}{T_{s(abs)} P_{std}} \right]$$

Average wet volumetric stack gas flow rate “Q” (wscfh) is calculated by omitting (1-B_{ws}) from equation 2-8.

When Adjusting for Wall Effects Adjustment Factor (WAF) is applied to volumetric flow data, equation 2H-21 is utilized to determine the adjusted wall affects average.

$$\hat{v}_{final(avg)} = \overline{WAF} * v_{final(k)}$$

Average dry volumetric stack gas flow rate “Q” (dscfh) ADJUSTED for WAF is calculated in accordance with 40 CFR 6, App. A-1, Meth. 2. Sect 12.7, and equation 2-8.

$$Q = 3600(1 - B_{ws})\hat{v}_{final(avg)}A\left[\frac{T_{std}P_s}{T_{s(abs)}P_{std}}\right]$$

Average wet volumetric stack gas flow rate “Q” (wscfh) is calculated by omitting (1-B_{ws}) from equation 2-8.

Method 4 Mathematical Explanations

Nomenclature

B_{ws} = Proportion of water vapor, by volume, in the gas stream.

M_w = Molecular weight of water, 18.0 g/g-mole (18.0 lb/lb – mole).

P_m = Absolute pressure (for this method, same as barometric pressure) at the dry gas
meter, mm Hg (in. Hg)

P_{std} = Standard, absolute pressure, 760 mm Hg (29.92 in. Hg).

R = Ideal gas constant, 0.06236 (mm Hg)(m³)/(g-mole)(°K) for metric units and 21.85
(in. Hg)(ft³)/(lb-mole)(°R) for English units.

T_m = Absolute temperature at meter, °K (°R).

T_{std} = Standard absolute temperature, 293 °K (528 °R).

V_f = Final volume of condenser water, ml.

V_i = Initial volume, if any, of condenser water, ml.

V_m = Dry gas volume measured by dry gas meter, dcm (dcf).

$V_{m(std)}$ = Dry gas volume measured by the dry gas meter, corrected to standard conditions,
dscm (dscf).

$V_{wc(std)}$ = Volume of water vapor condensed, corrected to standard conditions,
scm (scf).

$V_{wsg(std)}$ = Volume of water vapor collected in silica gel, corrected to standard conditions,
scm (scf).

W_f = Final weight of silica gel or silica gel plus impinger, g.

W_i = Initial weight of silica gel or silica gel plus impinger, g.

Y = Dry gas meter calibration factor.

ΔV_m = Incremental dry gas volume measured by dry gas meter at each traverse point dcm
(dcf).

ρ_w = Density of water, 0.9982 g/ml (0.002201 lb/ml).

Equations

The volume of water vapor condensed " $V_{wc(std)}$ " is calculated in accordance with 40 CFR 60, App. A-3, Meth. 4, Sect 12.1.2, and equation 4-1.

$$V_{wc(std)} = K_1 (V_f - V_i)$$

$K_1 = 0.04706 \text{ ft}^3/\text{ml}$ for English units.

Water volume collected in silica gel " $V_{wsg(std)}$ " is calculated in accordance with 40 CFR 60, App. A-3, Meth. 4, Sect 12.1.3, and equation 4-2.

$$V_{wsg(std)} = K_3 (W_f - W_i)$$

$K_2 = 453.6 \text{ g/lb}$ for English units.

$K_3 = 0.04715 \text{ ft}^3/\text{g}$ for English units.

Sample gas volume " $V_{m(std)}$ " is calculated in accordance with 40 CFR 60, App. A-3, Meth. 4, Sect 12.1.3, and equation 4-3.

$$V_{m(std)} = K_4 Y \frac{V_m P_m}{T_m}$$

$K_4 = 17.64 \text{ }^\circ\text{R/in. Hg}$ for English units.

The moisture content " B_{ws} " is calculated in accordance with 40 CFR 60, App. A-3, Meth. 4, Sect 12.1.5, and equation 4-4.

$$B_{ws} = \frac{V_{wc(std)} + V_{wsg(std)}}{V_{wc(std)} + V_{wsg(std)} + V_{m(std)}}$$

Appendix B: Reference Method Calibration Gas Certificates of Analysis

CERTIFICATE OF BATCH ANALYSIS NITROGEN - CEM-CAL ZERO

Airgas USA, LLC

1620 Tampa East Blvd

Tampa, FL 33619

Office: (813) 626-2905 Fax: (813) 620-0150

www.airgas.com

Part Number: NI CZ15A
Cylinder Analyzed: SG9174963BAL
Laboratory: ASO - Tampa Plant - FL
Analysis Date: Feb 13, 2013
Lot Number: 21-400155120-1

Reference Number: 21-400155120-1
Cylinder Volume: 142.0 CF
Cylinder Pressure: 2000 PSIG
Valve Outlet: 580

Expiration Date: Feb 13, 2018

ANALYTICAL RESULTS

Component	Requested Purity	Certified Concentration
NitrogenCEM	99.9995 %	99.9995 %
CARBON DIOXIDE	< 1.0 PPM	<LDL 0.40 PPM
Moisture	< 1.0 PPM	0.06 PPM
NOx	< 0.1 PPM	<LDL 0.01 PPM
SO2	< 0.1 PPM	<LDL 0.01 PPM
THC	< 0.1 PPM	<LDL 0.04 PPM
CARBON MONOXIDE	< 0.5 PPM	<LDL 0.40 PPM
Oxygen	< 0.5 PPM	0.22 PPM

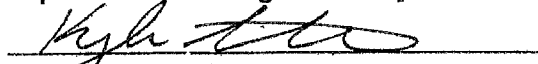
Permanent Notes: Airgas certifies that the contents of this cylinder meet the requirements of 40 CFR 72.2

Cylinders in Batch:

CC115100, CC185658, CC217566, CC281765, CC288541, CC29313, CC301361, CC301781,
CC318831, CC359395, SG9174900BAL, SG9174963BAL, XC015750B, XC019303B

Notes:

Impurities verified against analytical standards traceable to NIST by weight and/or analysis.



Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E02AI99E15A1704	Reference Number:	122-124314740-1
Cylinder Number:	CC17908	Cylinder Volume:	146.2 Cubic Feet
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
PGVP Number:	B22012	Valve Outlet:	660
Gas Code:	NO2	Analysis Date:	May 09, 2012

Expiration Date: May 09, 2015

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
NITROGEN DIOXIDE	50.00 PPM	48.58 PPM	G1	+/- 2%
AIR	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
GMIS	GMIS	CC343811	61.25 PPM NITROGEN DIOXIDE/NITROGEN	Dec 28, 2013

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
TECO 42CHL NOX (1-5000ppm)	Chemiluminescence	Apr 30, 2012

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	EU3NI80E15A2872	Reference Number:	122-124362958-6
Cylinder Number:	CC427756	Cylinder Volume:	150.6 CF
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
PGVP Number:	B22013	Valve Outlet:	590
Gas Code:	CO2,O2	Certification Date:	Mar 04, 2013

Expiration Date: Mar 04, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	9.500 %	9.624 %	G1	+/- 0.5% NIST Traceable	03/04/2013
OXYGEN	10.00 %	10.03 %	G1	+/- 0.6% NIST Traceable	03/04/2013
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
090606	09060610	CC262103	9.921 % CARBON DIOXIDE/NITROGEN	+/- 0.5%	Apr 10, 2013
NTRM	8265818	SG9163064BAL	9.507 % OXYGEN/NITROGEN	+/- 0.6%	Dec 01, 2015

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA510 CO2 42399380022	Nondispersive Infrared (NDIR)	Feb 09, 2013
Horiba MPA510 O2 41499150042	Paramagnetic	Feb 09, 2013

Triad Data Available Upon
Request

Notes:

[Signature]

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number: E03NI80E15A2872	Reference Number: 122-124362958-6
Cylinder Number: CC427751	Cylinder Volume: 150.6 CF
Laboratory: ASG - Durham - NC	Cylinder Pressure: 2015 PSIG
PGVP Number: B22013	Valve Outlet: 590
Gas Code: CO2,O2,BALN	Certification Date: Mar 04, 2013

Expiration Date: Mar 04, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	9.500 %	9.621 %	G1	+/- 0.5% NIST Traceable	03/04/2013
OXYGEN	10.00 %	10.03 %	G1	+/- 0.6% NIST Traceable	03/04/2013
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
090606	09060610	CC262103	9.921 % CARBON DIOXIDE/NITROGEN	+/- 0.5%	Apr 10, 2013
NTRM	8265818	SG9163064BAL	9.507 % OXYGEN/NITROGEN	+/- 0.6%	Dec 01, 2015

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA510 CO2 42399380022	Nondispersive Infrared (NDIR)	Feb 09, 2013
Horiba MPA510 O2 41499150042	Paramagnetic	Feb 09, 2013

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Specialty Gases

630 United Drive
Durham, NC 27713
919-544-3773 Fax: 919-544-3774
www.airgas.com

Part Number: E03NI60E15A03W3
Cylinder Number: CC159366
Laboratory: ASG - Durham - NC
PGVP Number: B22012
Gas Code: OC2

Reference Number: 122-124339936-1
Cylinder Volume: 159 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 590
Analysis Date: Oct 12, 2012

Expiration Date: Oct 12, 2020

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON DIOXIDE	19.00 %	19.04 %	G1	+/- 1% NIST Traceable
OXYGEN	20.50 %	20.65 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	090614	CC273522	22.53% OXYGEN/NITROGEN	Aug 01, 2013
NTRM	120615	CC354889	19.87% CARBON DIOXIDE/NITROGEN	Jan 27, 2018

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA510 CO2 J007MEB	Nondispersive Infrared (NDIR)	Sep 28, 2012
Horiba MPA510 O2 41499150042	Paramagnetic	Sep 21, 2012

Triad Data Available Upon Request

Notes:

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E03NI60E15A03W3	Reference Number:	122-124360737-1
Cylinder Number:	CC365323	Cylinder Volume:	158.8 CF
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
PGVP Number:	B22013	Valve Outlet:	590
Gas Code:	CO ₂ ,O ₂	Certification Date:	Feb 26, 2013

Expiration Date: Feb 26, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	19.00 %	19.07 %	G1	+/- 0.6% NIST Traceable	02/26/2013
OXYGEN	20.50 %	20.37 %	G1	+/- 0.4% NIST Traceable	02/26/2013
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	12061551	CC354889	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018
NTRM	09061416	CC273522	22.53 % OXYGEN/NITROGEN	+/- 0.4%	Aug 01, 2013

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA510 CO ₂ 42399380022	Nondispersive Infrared (NDIR)	Feb 09, 2013
Horiba MPA510 O ₂ 41499150042	Paramagnetic	Feb 09, 2013

Triad Data Available Upon Request

Notes:

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Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Specialty Gases

1075 Cinclare Drive
Port Allen, LA 70767
225-388-0900 Fax: 225-388-0959
www.airgas.com

Part Number: E02NI99E15A2396
Cylinder Number: SG9136781BAL
Laboratory: ASG - Port Allen - LA
PGVP Number: B42012
Gas Code: NO

Reference Number: 83-124313794-3
Cylinder Volume: 144 Cu.Ft.
Cylinder Pressure: 1550 PSIG
Valve Outlet: 660
Analysis Date: Apr 19, 2012

Expiration Date: Apr 19, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
NITRIC OXIDE	46.00 PPM	45.94 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

45.95 PPM

For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	12060802	CC253502	49.95PPM NITRIC OXIDE/NITROGEN	Dec 16, 2017

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801556 LNO	FTIR	Apr 05, 2012

Triad Data Available Upon Request

Notes: Original cert date 07/06/2009


Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E02NI99E15AC0J1	Reference Number:	122-124347933-1
Cylinder Number:	CC237797	Cylinder Volume:	144.3 CF
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
PGVP Number:	B22012	Valve Outlet:	660
Gas Code:	NO	Analysis Date:	Dec 10, 2012

Expiration Date: Dec 10, 2020

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
NITRIC OXIDE	97.00 PPM	96.79 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			
Total oxides of nitrogen		97.00 PPM	For Reference Only	

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	110605	CC331846	101.2 PPM NITRIC OXIDE/NITROGEN	Feb 16, 2017
ANALYTICAL EQUIPMENT				
Instrument/Make/Model		Analytical Principle		Last Multipoint Calibration
Nicolet 6700 AHR0801549 NO		FTIR		Nov 28, 2012

Triad Data Available Upon Request

Notes:

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E02NI99E15A0645	Reference Number:	83-124313794-7
Cylinder Number:	CC277740	Cylinder Volume:	144.4 CF
Laboratory:	ASG - Port Allen - LA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B42012	Valve Outlet:	660
Gas Code:	SO2	Analysis Date:	Apr 19, 2012

Expiration Date: Apr 19, 2016

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	21.00 PPM	21.14 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	11060229	CC283922	49.67 PPM SULFUR DIOXIDE/NITROGEN	May 13, 2017

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801556 LSO2	FTIR	Mar 29, 2012

Triad Data Available Upon Request

Notes: Original cert date 05/02/2011


 Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number: E02AI99E15A1704 Reference Number: 122-124314740-1
Cylinder Number: CC17908 Cylinder Volume: 146.2 Cubic Feet
Laboratory: ASG - Durham - NC Cylinder Pressure: 2015 PSIG
PGVP Number: B22012 Valve Outlet: 660
Gas Code: NO2,BALA Certification Date: May 09, 2012

Expiration Date: May 09, 2015

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NITROGEN DIOXIDE	50.00 PPM	48.58 PPM	G1	+/- 2%	05/03/2012, 05/09/2012
AIR	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
GMIS	GMIS	CC343811	61.25 PPM NITROGEN DIOXIDE/NITROGEN	1.00	Dec 28, 2013

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
TECO 42CHL NOX (1-5000ppm)	Chemiluminescence	Apr 30, 2012

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E02NI99E15AC1N1	Reference Number:	122-124349393-1
Cylinder Number:	CC334442	Cylinder Volume:	144.3 CF
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
PGVP Number:	B22012	Valve Outlet:	350
Gas Code:	CO	Analysis Date:	Dec 27, 2012

Expiration Date: Dec 27, 2020

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

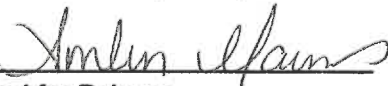
ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON MONOXIDE	46.00 PPM	45.96 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	120605	CC353909	49.53 PPM CARBON MONOXIDE/NITROGEN	Dec 20, 2017

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba APMA360 CO 42361580052	Nondispersive Infrared (NDIR)	Nov 30, 2012

Triad Data Available Upon Request

Notes:

**Approved for Release**

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E02NI99E15AC0V0	Reference Number:	122-124349394-1
Cylinder Number:	CC423695	Cylinder Volume:	144.3 CF
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
PGVP Number:	B22012	Valve Outlet:	350
Gas Code:	CO	Analysis Date:	Dec 27, 2012

Expiration Date: Dec 27, 2020

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

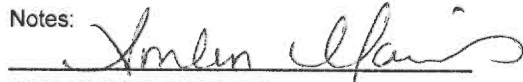
ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON MONOXIDE	97.50 PPM	97.52 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	120622	CC365468	97.56 PPM CARBON MONOXIDE/NITROGEN	May 25, 2018

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA510 CO 1G46EA07	Nondispersive Infrared (NDIR)	Dec 07, 2012

Triad Data Available Upon Request

Notes:



Approved for Release

Appendix C: Sample Location Diagram and Traverse Points

CEM Solutions, Inc.			
METHOD 1: Determining Number of Particulate and Velocity Traverse Points for a Stack or Duct			
Company:	GREC	Date:	8/20/2013
Facility:	Gainesville	Project:	6071
Unit Number:	1	Operator:	C. Horton
Sample Location:	Stack		

Stack Measurements			
Shape of Stack:	Circular	Stack Diameter:	143.50 Inches
# of Test Ports:	4	Stack Area:	112.3133 ft ²
Port Depth:	8 Inches		

Distance from Test Ports to Disturbances			
Distance Upstream:	822.00 Inches (A)	Distance Downstream:	1326.00 Inches (B)
Diameters Upstream:	5.73 (A _D)	Diameters Downstream:	9.24 (B _D)

Minimum # of Velocity Traverse Points		
From Upstream:	12	
From Downstream:	12	
12-24in Diameter?	False	
Points to be used:	12	0

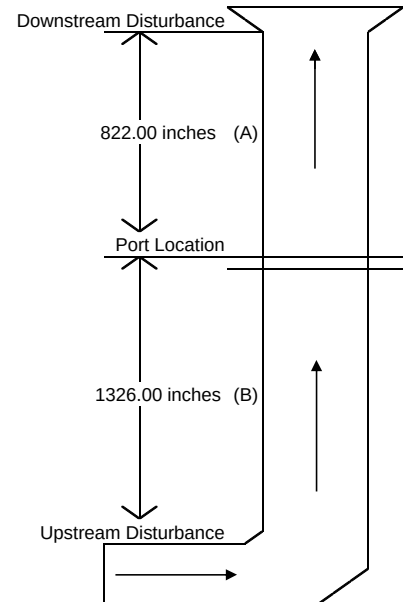
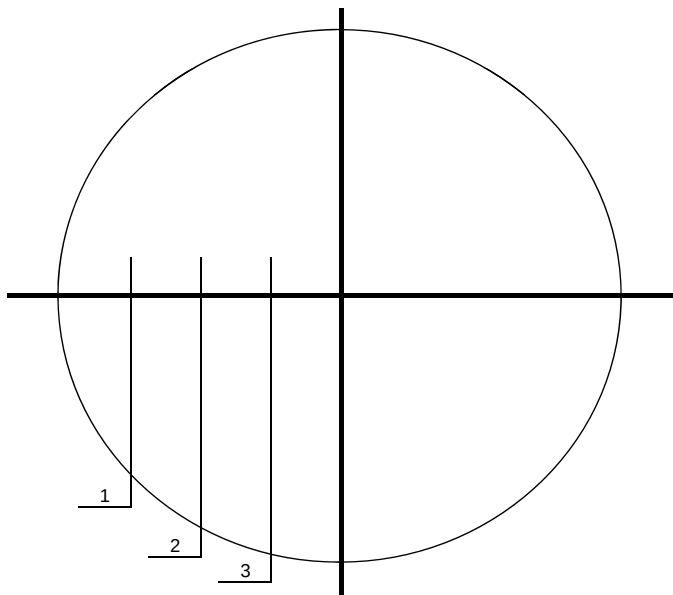
Minimum # of Particulate Traverse Points		
From Upstream:	12	
From Downstream:	12	
12-24in Diameter?	False	
Points to be used:	12	

C.E.M. Solutions, INC.
Method 1 Determination

40CFR75 Short Line

Determined according to 40CFR75 Appendix A, Section 6.5.6(b)(2). Sample taken from the following points:

Traverse Point	% of diameter	Distance from stack wall (Inches)	Distance including port depth (Inches)
1	4.4	6.31	14.31
2	14.6	20.95	28.95
3	29.6	42.48	50.48



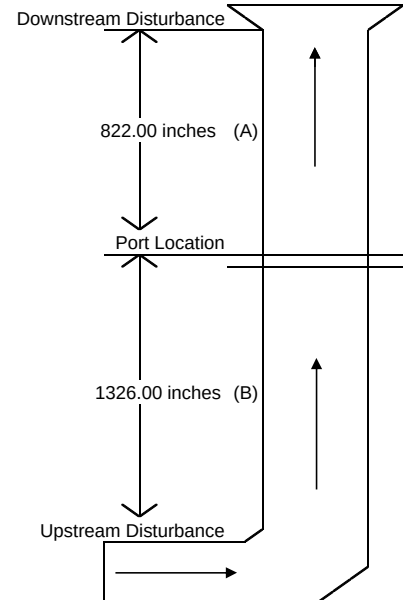
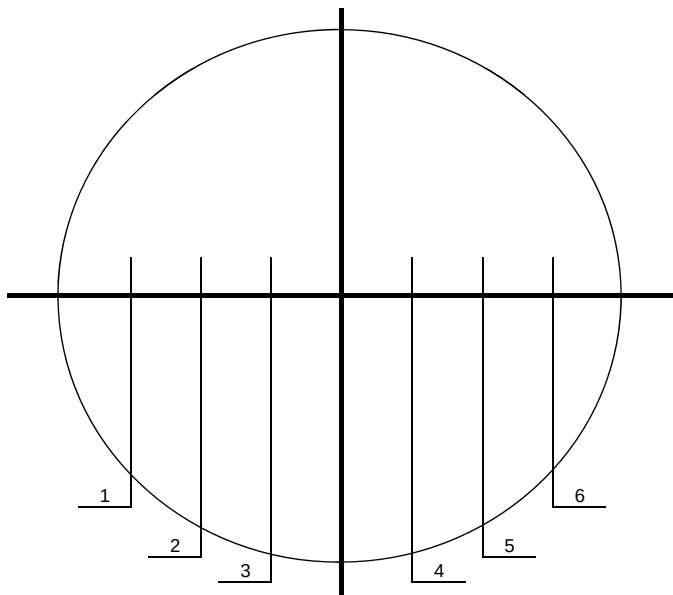
Test Matrix Diagrams

C.E.M. Solutions, INC.
Method 1 Determination

12 Point Traverse

Determined according to 40CFR60 Appendix A, Method 1, Figures 1-1 and 1-2. Sample taken from the following points:

Traverse Point	% of diameter	Distance from stack wall (Inches)	Distance including port depth (Inches)
1	4.4	6.31	14.31
2	14.6	20.95	28.95
3	29.6	42.48	50.48
4	70.4	101.02	109.02
5	85.4	122.55	130.55
6	95.6	137.19	145.19



Test Matrix Diagrams

Appendix D: Reference Method Quality Assurance/Quality Control Checks

Appendix D-1: Gaseous RATA

Calibration Error Tests

Bias and Drift Tests

NO₂ to NO Converter Efficiency Test

Instrument Analyzer Response Time Tests

Analyzer Calibration Error

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 1

Nitrogen Oxides Monitor

Full Scale: 100.0 ppm

Method 7E

Serial Number: 1200951382

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC288541/cg1	0.0 ppm	0.0 ppm	0.0 ppm	0.00 %
SG9136781BAL/cg1	45.94 ppm	44.4 ppm	-1.5 ppm	-1.59 %
CC237797/cg5	96.79 ppm	97.5 ppm	0.7 ppm	0.73 %

Carbon Dioxide Monitor

Full Scale: 20.00 %

Method 3A

Serial Number: 903034509

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC288541/cg1	0.00 %	-0.01 %	-0.01 %	-0.05 %
CC427751/cg2	9.62 %	9.26 %	-0.36 %	-1.90 %
CC159366/cg3	19.04 %	19.33 %	0.29 %	1.52 %

Sulfur Dioxide Monitor

Full Scale: 100.0 ppm

Method 6C

Serial Number: 734726464

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC288541/cg1	0.0 ppm	0.0 ppm	0.0 ppm	0.00 %
CC277740/cg6	21.14 ppm	21.1 ppm	0.0 ppm	-0.08 %
CC17908/cg13	50.64 ppm	51.5 ppm	0.9 ppm	1.70 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 1

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	0.0 ppm	0.00 %	0.1 ppm	0.10 %	0.10 %
NO _x	45.9 ppm	44.4 ppm	-1.59 %	43.3 ppm	-2.73 %	-1.14 %
CO ₂	0.00 %	-0.01 %	-0.05 %	0.04 %	0.21 %	0.26 %
CO ₂	19.04 %	19.33 %	1.52 %	19.05 %	0.05 %	-1.47 %
SO ₂	0.0 ppm	0.0 ppm	0.00 %	0.1 ppm	0.20 %	0.20 %
SO ₂	21.1 ppm	21.1 ppm	-0.08 %	19.6 ppm	-3.04 %	-2.96 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 2

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	0.1 ppm	0.10 %	-0.1 ppm	-0.10 %	-0.21 %
NO _x	45.9 ppm	43.3 ppm	-2.73 %	43.6 ppm	-2.42 %	0.31 %
CO ₂	0.00 %	0.04 %	0.21 %	0.11 %	0.58 %	0.37 %
CO ₂	19.04 %	19.05 %	0.05 %	19.16 %	0.63 %	0.58 %
SO ₂	0.0 ppm	0.1 ppm	0.20 %	0.1 ppm	0.20 %	0.00 %
SO ₂	21.1 ppm	19.6 ppm	-3.04 %	21.0 ppm	-0.28 %	2.76 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 3

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	-0.1 ppm	-0.10 %	0.2 ppm	0.21 %	0.31 %
NO _x	45.9 ppm	43.6 ppm	-2.42 %	43.8 ppm	-2.21 %	0.21 %
CO ₂	0.00 %	0.11 %	0.58 %	0.00 %	0.00 %	-0.58 %
CO ₂	19.04 %	19.16 %	0.63 %	18.97 %	-0.37 %	-1.00 %
SO ₂	0.0 ppm	0.1 ppm	0.20 %	0.0 ppm	0.00 %	-0.20 %
SO ₂	21.1 ppm	21.0 ppm	-0.28 %	20.5 ppm	-1.26 %	-0.99 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 4

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	0.2 ppm	0.21 %	-0.1 ppm	-0.10 %	-0.31 %
NO _x	45.9 ppm	43.8 ppm	-2.21 %	43.9 ppm	-2.11 %	0.10 %
CO ₂	0.00 %	0.00 %	0.00 %	0.07 %	0.37 %	0.37 %
CO ₂	19.04 %	18.97 %	-0.37 %	19.11 %	0.37 %	0.74 %
SO ₂	0.0 ppm	0.0 ppm	0.00 %	0.1 ppm	0.20 %	0.20 %
SO ₂	21.1 ppm	20.5 ppm	-1.26 %	20.3 ppm	-1.66 %	-0.39 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 5

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	-0.1 ppm	-0.10 %	0.1 ppm	0.10 %	0.21 %
NO _x	45.9 ppm	43.9 ppm	-2.11 %	44.6 ppm	-1.38 %	0.72 %
CO ₂	0.00 %	0.07 %	0.37 %	-0.01 %	-0.05 %	-0.42 %
CO ₂	19.04 %	19.11 %	0.37 %	19.01 %	-0.16 %	-0.53 %
SO ₂	0.0 ppm	0.1 ppm	0.20 %	0.0 ppm	0.00 %	-0.20 %
SO ₂	21.1 ppm	20.3 ppm	-1.66 %	19.9 ppm	-2.45 %	-0.79 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 6

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	0.1 ppm	0.10 %	0.0 ppm	0.00 %	-0.10 %
NO _x	45.9 ppm	44.6 ppm	-1.38 %	43.8 ppm	-2.21 %	-0.83 %
CO ₂	0.00 %	-0.01 %	-0.05 %	0.14 %	0.74 %	0.79 %
CO ₂	19.04 %	19.01 %	-0.16 %	18.96 %	-0.42 %	-0.26 %
SO ₂	0.0 ppm	0.0 ppm	0.00 %	0.2 ppm	0.39 %	0.39 %
SO ₂	21.1 ppm	19.9 ppm	-2.45 %	20.8 ppm	-0.67 %	1.78 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 7

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	0.0 ppm	0.00 %	0.5 ppm	0.52 %	0.52 %
NO _x	45.9 ppm	43.8 ppm	-2.21 %	44.2 ppm	-1.80 %	0.41 %
CO ₂	0.00 %	0.14 %	0.74 %	0.00 %	0.00 %	-0.74 %
CO ₂	19.04 %	18.96 %	-0.42 %	19.04 %	0.00 %	0.42 %
SO ₂	0.0 ppm	0.2 ppm	0.39 %	0.0 ppm	0.00 %	-0.39 %
SO ₂	21.1 ppm	20.8 ppm	-0.67 %	21.0 ppm	-0.28 %	0.39 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 8

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	0.5 ppm	0.52 %	0.0 ppm	0.00 %	-0.52 %
NO _x	45.9 ppm	44.2 ppm	-1.80 %	43.6 ppm	-2.42 %	-0.62 %
CO ₂	0.00 %	0.00 %	0.00 %	0.02 %	0.11 %	0.11 %
CO ₂	19.04 %	19.04 %	0.00 %	18.98 %	-0.32 %	-0.32 %
SO ₂	0.0 ppm	0.0 ppm	0.00 %	0.1 ppm	0.20 %	0.20 %
SO ₂	21.1 ppm	21.0 ppm	-0.28 %	20.1 ppm	-2.05 %	-1.78 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 9

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	0.0 ppm	0.00 %	0.3 ppm	0.31 %	0.31 %
NO _x	45.9 ppm	43.6 ppm	-2.42 %	43.6 ppm	-2.42 %	0.00 %
CO ₂	0.00 %	0.02 %	0.11 %	-0.01 %	-0.05 %	-0.16 %
CO ₂	19.04 %	18.98 %	-0.32 %	18.99 %	-0.26 %	0.05 %
SO ₂	0.0 ppm	0.1 ppm	0.20 %	0.1 ppm	0.20 %	0.00 %
SO ₂	21.1 ppm	20.1 ppm	-2.05 %	20.7 ppm	-0.87 %	1.18 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 10

Monitor Type	Reference Gas Concentration	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
NO _x	0.0 ppm	0.3 ppm	0.31 %	0.4 ppm	0.41 %	0.10 %
NO _x	45.9 ppm	43.6 ppm	-2.42 %	44.9 ppm	-1.07 %	1.34 %
CO ₂	0.00 %	-0.01 %	-0.05 %	0.00 %	0.00 %	0.05 %
CO ₂	19.04 %	18.99 %	-0.26 %	19.04 %	0.00 %	0.26 %
SO ₂	0.0 ppm	0.1 ppm	0.20 %	0.1 ppm	0.20 %	0.00 %
SO ₂	21.1 ppm	20.7 ppm	-0.87 %	20.5 ppm	-1.26 %	-0.39 %

Analyzer Calibration Error

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 1

Oxygen Monitor

Full Scale: 100.00 %

Method 3A

Serial Number: 1009241630

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC281765/cg1	0.00 %	-0.06 %	-0.06 %	-0.29 %
CC427756/cg5	10.03 %	9.96 %	-0.07 %	-0.34 %
CC365323/cg6	20.37 %	20.31 %	-0.06 %	-0.29 %

Carbon Dioxide Monitor

Full Scale: 20.00 %

Method 3A

Serial Number: 1009241630

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC281765/cg1	0.00 %	-0.04 %	-0.04 %	-0.21 %
CC427756/cg5	9.62 %	9.71 %	0.09 %	0.45 %
CC365323/cg6	19.07 %	19.04 %	-0.03 %	-0.16 %

Carbon Monoxide Monitor

Full Scale: 200.0 ppm

Method 10

Serial Number: 48C-68846-361

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC281765/cg1	0.0 ppm	-0.1 ppm	-0.1 ppm	-0.10 %
CC334442/cg7	45.96 ppm	45.6 ppm	-0.4 ppm	-0.37 %
CC423695/cg8	97.52 ppm	97.4 ppm	-0.1 ppm	-0.12 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 1

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	-0.02 %	0.20 %	0.04 %	0.49 %	0.29 %
O ₂	9.96 %	9.91 %	-0.25 %	9.90 %	-0.29 %	-0.05 %
CO ₂	-0.04 %	0.12 %	0.84 %	-0.02 %	0.10 %	-0.73 %
CO ₂	9.71 %	9.70 %	-0.05 %	9.46 %	-1.31 %	-1.26 %
CO	-0.1 ppm	0.1 ppm	0.21 %	-0.1 ppm	0.00 %	-0.21 %
CO	45.6 ppm	45.5 ppm	-0.10 %	45.4 ppm	-0.21 %	-0.10 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 2

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	0.04 %	0.49 %	0.07 %	0.64 %	0.15 %
O ₂	9.96 %	9.90 %	-0.29 %	9.93 %	-0.15 %	0.15 %
CO ₂	-0.04 %	-0.02 %	0.10 %	0.23 %	1.42 %	1.31 %
CO ₂	9.71 %	9.46 %	-1.31 %	9.61 %	-0.52 %	0.79 %
CO	-0.1 ppm	-0.1 ppm	0.00 %	-0.1 ppm	0.00 %	0.00 %
CO	45.6 ppm	45.4 ppm	-0.21 %	45.5 ppm	-0.10 %	0.10 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 3

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	0.07 %	0.64 %	-0.01 %	0.25 %	-0.39 %
O ₂	9.96 %	9.93 %	-0.15 %	9.89 %	-0.34 %	-0.20 %
CO ₂	-0.04 %	0.23 %	1.42 %	0.02 %	0.31 %	-1.10 %
CO ₂	9.71 %	9.61 %	-0.52 %	9.57 %	-0.73 %	-0.21 %
CO	-0.1 ppm	-0.1 ppm	0.00 %	-0.1 ppm	0.00 %	0.00 %
CO	45.6 ppm	45.5 ppm	-0.10 %	45.5 ppm	-0.10 %	0.00 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 4

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	-0.01 %	0.25 %	0.04 %	0.49 %	0.25 %
O ₂	9.96 %	9.89 %	-0.34 %	9.97 %	0.05 %	0.39 %
CO ₂	-0.04 %	0.02 %	0.31 %	-0.02 %	0.10 %	-0.21 %
CO ₂	9.71 %	9.57 %	-0.73 %	9.53 %	-0.94 %	-0.21 %
CO	-0.1 ppm	-0.1 ppm	0.00 %	-0.1 ppm	0.00 %	0.00 %
CO	45.6 ppm	45.5 ppm	-0.10 %	45.5 ppm	-0.10 %	0.00 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 5

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	0.04 %	0.49 %	0.08 %	0.69 %	0.20 %
O ₂	9.96 %	9.97 %	0.05 %	9.96 %	0.00 %	-0.05 %
CO ₂	-0.04 %	-0.02 %	0.10 %	0.04 %	0.42 %	0.31 %
CO ₂	9.71 %	9.53 %	-0.94 %	9.53 %	-0.94 %	0.00 %
CO	-0.1 ppm	-0.1 ppm	0.00 %	-0.1 ppm	0.00 %	0.00 %
CO	45.6 ppm	45.5 ppm	-0.10 %	45.2 ppm	-0.38 %	-0.28 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 6

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	0.08 %	0.69 %	0.00 %	0.29 %	-0.39 %
O ₂	9.96 %	9.96 %	0.00 %	9.89 %	-0.34 %	-0.34 %
CO ₂	-0.04 %	0.04 %	0.42 %	-0.02 %	0.10 %	-0.31 %
CO ₂	9.71 %	9.53 %	-0.94 %	9.52 %	-1.00 %	-0.05 %
CO	-0.1 ppm	-0.1 ppm	0.00 %	-0.1 ppm	0.00 %	0.00 %
CO	45.6 ppm	45.2 ppm	-0.41 %	45.3 ppm	-0.31 %	0.10 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 7

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	0.00 %	0.29 %	0.05 %	0.54 %	0.25 %
O ₂	9.96 %	9.89 %	-0.34 %	9.95 %	-0.05 %	0.29 %
CO ₂	-0.04 %	-0.02 %	0.10 %	-0.02 %	0.10 %	0.00 %
CO ₂	9.71 %	9.52 %	-1.00 %	9.52 %	-1.00 %	0.00 %
CO	-0.1 ppm	-0.1 ppm	0.00 %	-0.1 ppm	0.00 %	0.00 %
CO	45.6 ppm	45.3 ppm	-0.31 %	45.3 ppm	-0.31 %	0.00 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 8

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	0.05 %	0.54 %	0.01 %	0.34 %	-0.20 %
O ₂	9.96 %	9.95 %	-0.05 %	9.96 %	0.00 %	0.05 %
CO ₂	-0.04 %	-0.02 %	0.10 %	0.02 %	0.31 %	0.21 %
CO ₂	9.71 %	9.52 %	-1.00 %	9.54 %	-0.89 %	0.10 %
CO	-0.1 ppm	-0.1 ppm	0.00 %	0.0 ppm	0.10 %	0.10 %
CO	45.6 ppm	45.3 ppm	-0.31 %	45.3 ppm	-0.31 %	0.00 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 9

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	0.01 %	0.34 %	0.02 %	0.39 %	0.05 %
O ₂	9.96 %	9.96 %	0.00 %	9.88 %	-0.39 %	-0.39 %
CO ₂	-0.04 %	0.02 %	0.31 %	0.00 %	0.21 %	-0.10 %
CO ₂	9.71 %	9.54 %	-0.89 %	9.51 %	-1.05 %	-0.16 %
CO	-0.1 ppm	0.0 ppm	0.10 %	-0.1 ppm	0.00 %	-0.10 %
CO	45.6 ppm	45.3 ppm	-0.31 %	45.5 ppm	-0.10 %	0.21 %

Sampling System Bias and Drift

Test Performed For:

FAGEN

GREC

Unit 1

High Load RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 10

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O ₂	-0.06 %	0.02 %	0.39 %	0.02 %	0.39 %	0.00 %
O ₂	9.96 %	9.88 %	-0.39 %	9.93 %	-0.15 %	0.25 %
CO ₂	-0.04 %	0.00 %	0.21 %	0.00 %	0.21 %	0.00 %
CO ₂	9.71 %	9.51 %	-1.05 %	9.54 %	-0.89 %	0.16 %
CO	-0.1 ppm	-0.1 ppm	0.00 %	-0.1 ppm	0.00 %	0.00 %
CO	45.6 ppm	45.5 ppm	-0.10 %	45.3 ppm	-0.31 %	-0.21 %

C.E.M. Solutions, Inc.
NO₂ to NO Converter Efficiency Test

1. Calibrate the analyzer to a concentration of NO greater than or equal to 50ppm.
2. Introduce NO₂ (40-60ppm) into the analyzer.
3. Record the following data:

$$\begin{array}{lcl} \text{Calibration Gas Value (C}_v\text{)} = & \underline{48.57} & \\ \text{Analyzer Value (C}_{dir}\text{)} = & \underline{44.6} & \end{array} \quad \text{Eff NO}_2 = \boxed{91.8\%}$$

$$\boxed{91.8\% = 44.6 / 48.57 * 100}$$

Date: 11/17/2013
Technician: C. Horton
Analyzer S/N: 1200951382
NO₂ Cylinder S/N: CC17908
NO₂ Cylinder Expiration Date: 11/9/2015

NO₂ to NO Converter Efficiency must be greater than or equal to 90%

Rack A Analyzer Response Time

Test Performed For:

Fagen

GREC

Unit 1

Stack

11/14/2013

Analyzer		CO	O2
Serial Number		48C-68846-361	1009241630
Calibration Span		45.96 ppm	10.03%
Upscale Gas		96.79 ppm	20.37%
Downscale Response	(seconds)	60	60
Upscale Response	(seconds)	90	60

System Response	(seconds)	90.000

Rack A Analyzer Response Time Test

Test Performed For:

Fagen
GREC
BFB Boiler (002)
Stack
11/14/2013
Wood

Analyzer		CO ₂	NOx	SO ₂
Serial Number		903034509	1200951382	734726464
Calibration Span		19.04%	96.79%	50.64 ppm
Upscale Gas		19.04%	45.94%	21.14 ppm
Downscale Response	(seconds)	100	100	100
Upscale Response	(seconds)	100	96	100

System Response	(seconds)	102.000

Appendix D-2: Volumetric Flow and Wet Chemistry Equipment

Pre-test Meter Box Calibrations
Post-test Meter Box Calibrations
Post-test Thermocouple Calibrations
Type S Pitot Tube Calibrations

APEX INSTRUMENTS METHOD 5 PRE-TEST CONSOLE CALIBRATION
USING CALIBRATED CRITICAL ORIFICES
5-POINT ENGLISH UNITS

Meter Console Information	
Console Model Number	522
Console Serial Number	CEMS3MB
DGM Model Number	
DGM Serial Number	

Calibration Conditions	
Date	1-Aug-13
Barometric Pressure	30.0 in Hg
Theoretical Critical Vacuum ¹	14.2 in Hg
Calibration Technician	D. Kopera

Factors/Conversions	
Std Temp	528 °R
Std Press	29.92 in Hg
K ₁	17.647 or/in Hg

¹For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

²The Critical Orifice Coefficient, K', must be entered in English units, (ft³·R^{1/2})/(in·Hg·min).

Metering Console				Calibration Data				Critical Orifice			
Run Time	Elapsed (t)	DGM Orifice ΔH (P _m) in H ₂ O	Volume Initial (V _{mi}) cubic feet	Volume Final (V _{mf}) cubic feet	Outlet Temp Initial (t _{mi}) °F	Outlet Temp Final (t _{mf}) °F	Serial Number	Coefficient K'	Amb Temp Initial (t _{amb}) °F	Amb Temp Final (t _{amb}) °F	Actual Vacuum in Hg
	6.0	3.3	382.500	388.856	79	79	OB-73	see above ²	81	81	18
	8.0	1.8	388.856	395.144	79	79	OB-63	0.5750	81	81	21
	9.0	1.2	395.144	400.636	79	79	OB-55	0.4483	81	82	22
	16.0	0.7	400.636	408.123	79	79	OB-48	0.3443	82	81	23
	18.0	0.3	408.123	413.745	79	79	OB-40	0.2306	81	81	24

Results									
Standardized Data				Dry Gas Meter					
Dry Gas Meter		Critical Orifice		Calibration Factor		Flowrate		ΔH @	
(V _{std})	(Q _{std})	(V _{cr, std})	(Q _{cr, std})	Value	Variation	Std & Corr	0.75 SCFM	Variation	
cubic feet	cfm	cubic feet	cfm	(Y)	(ΔY)	(Q _{std/corr})	in H ₂ O	(ΔH@)	(ΔΔH@)
6.296	1.049	6.009	1.002	0.955	-0.007	1.002	1.849	-0.069	
6.205	0.776	5.937	0.742	0.957	-0.004	0.742	1.824	-0.094	
5.412	0.601	5.204	0.578	0.962	0.001	0.578	1.997	0.079	
7.369	0.461	7.103	0.444	0.964	0.003	0.444	1.915	-0.003	
5.528	0.307	5.354	0.297	0.968	0.007	0.297	2.004	0.086	
				0.961	Y Average			1.918	ΔH@ Average

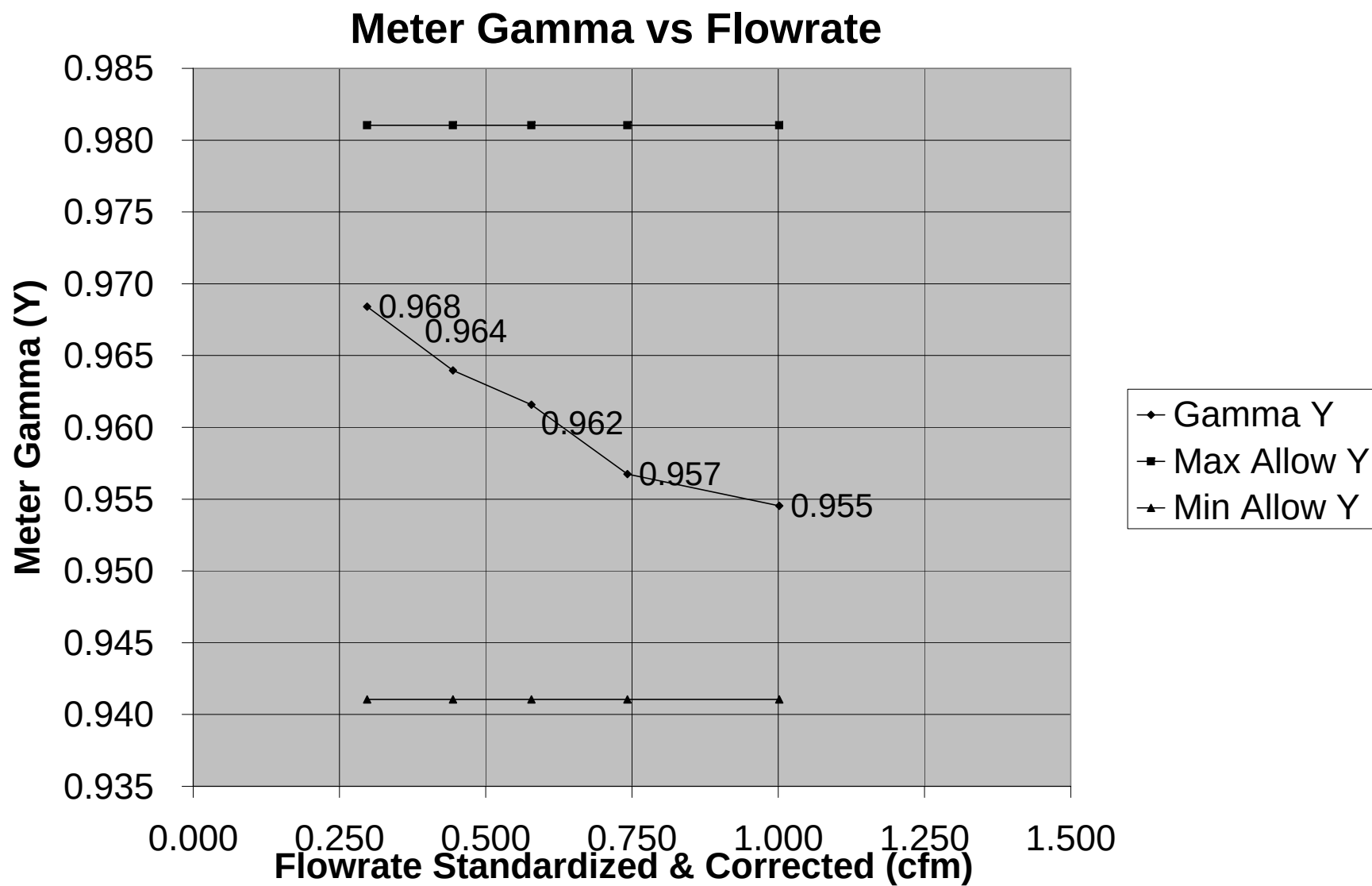
Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +0.02.

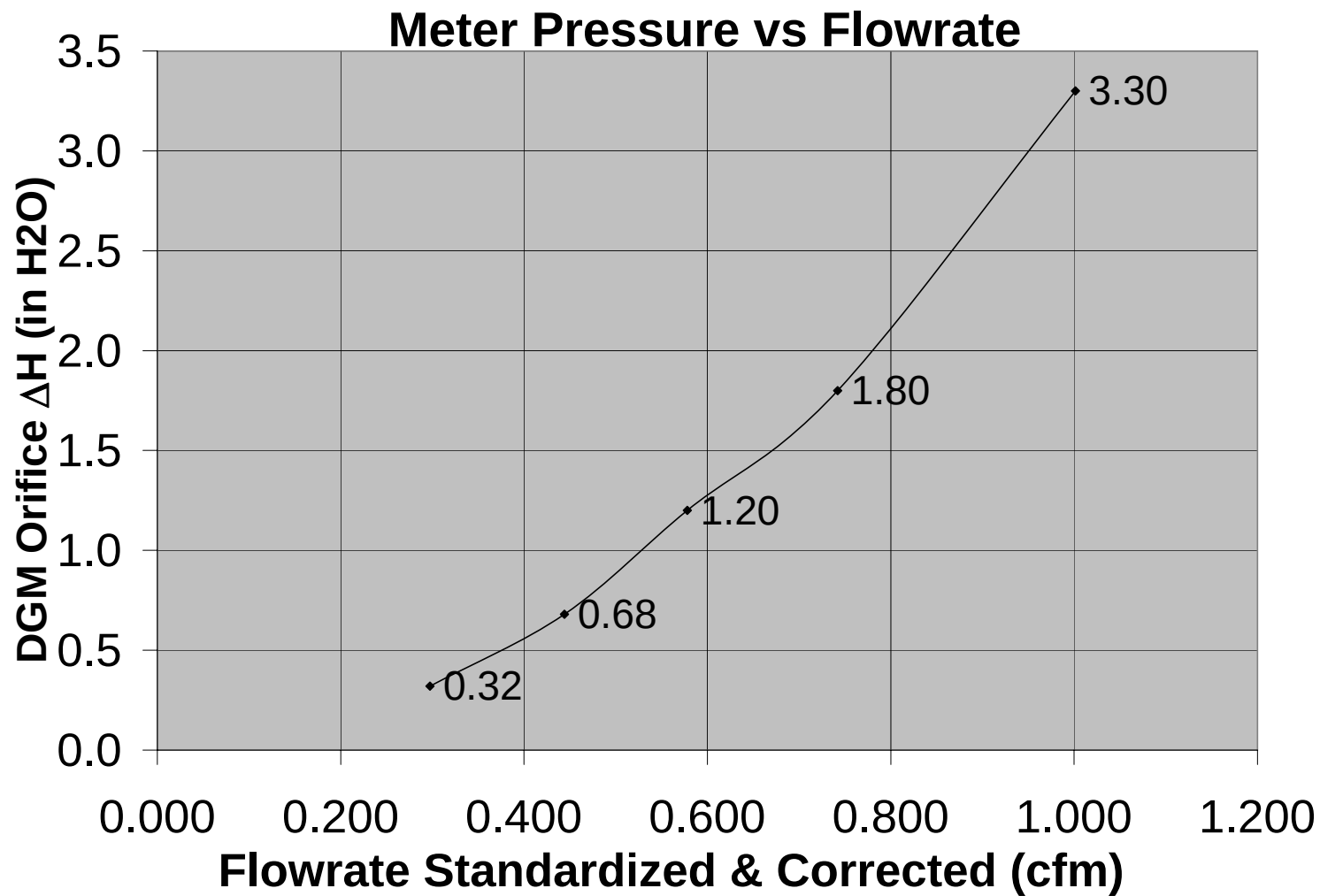
I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR 40 Part 60, using the Precision Wet Test Meter # 11AE6, which in turn was calibrated using the American Bell Prover # 3785, certificate # F107, which is traceable to the National Bureau of Standards (N.I.S.T.).

Signature

Date

[Signature] 8/13





Factors/Conversions	
Std Temp	528
Std Press	29.92
K ₁	17.647

Calibration Conditions		
Date	Time	
6-Dec-13		7:50
Barometric Pressure	30.2	in Hg
Theoretical Critical Vacuum ¹	14.2	in Hg
Calibration Technician	Joe Conti	

¹For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

²The Critical Orifice Coefficient, K' , must be entered in English units, $(ft^{3/4} \cdot R^{1/2}) / (in \cdot Hg \cdot min)$.

Calibration Data											
Run Time		Metering Console					Critical Orifice				
Elapsed (s)	min	DGM Orifice ΔH (P_m) in H ₂ O	Volume Initial (V_m) cubic feet	Volume Final (V_m) cubic feet	Outlet Temp Initial (t_m) °F	Outlet Temp Final (t_m) °F	Serial Number	Coefficient	Amb Temp Initial (t_{amb}) °F	Amb Temp Final (t_{amb}) °F	Actual Vacuum in Hg
9.0		1.2	847.642	853.201	67	67	MZ-55	0.4558	64	64	20
9.0		1.2	853.201	858.764	67	69	MZ-55	0.4558	63	63	20
9.0		1.2	858.764	864.322	69	67	MZ-55	0.4558	63	63	20

Results									
Standardized Data					Dry Gas Meter				
Dry Gas Meter		Critical Orifice		Calibration Factor		Flowrate		ΔH	
(V_{std})	(Q_{std})	(V_{cr})	(Q_{cr})	Value	Variation	Std & Corr	0.75 SCFM	Variation	
cubic feet	cfm	cubic feet	cfm	(%)	(ΔY)	($Q_{std} \pm \text{corr}$)	(ΔH)	($\Delta \Delta H$)	
5.633	0.626	5.407	0.601	0.960	-0.002	0.601	1.902	0.005	
5.626	0.625	5.412	0.601	0.962	0.000	0.601	1.895	-0.002	
5.621	0.625	5.412	0.601	0.963	0.001	0.601	1.895	-0.002	
					0.962	0.601	1.897	ΔH @ Average	

Note: For Calibration Factor Y the ratio of the reading of the calibration meter to the drv gas meter. acceptable tolerance of individual values from the average is ± 0.02 .

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR 40 Part 60, using the Precision Wet Test Meter # 11AIE6, which in turn was calibrated using the American Bell Prover # 3785, certificate # F-107, which is traceable to the National Bureau of Standards (N.I.S.T.).

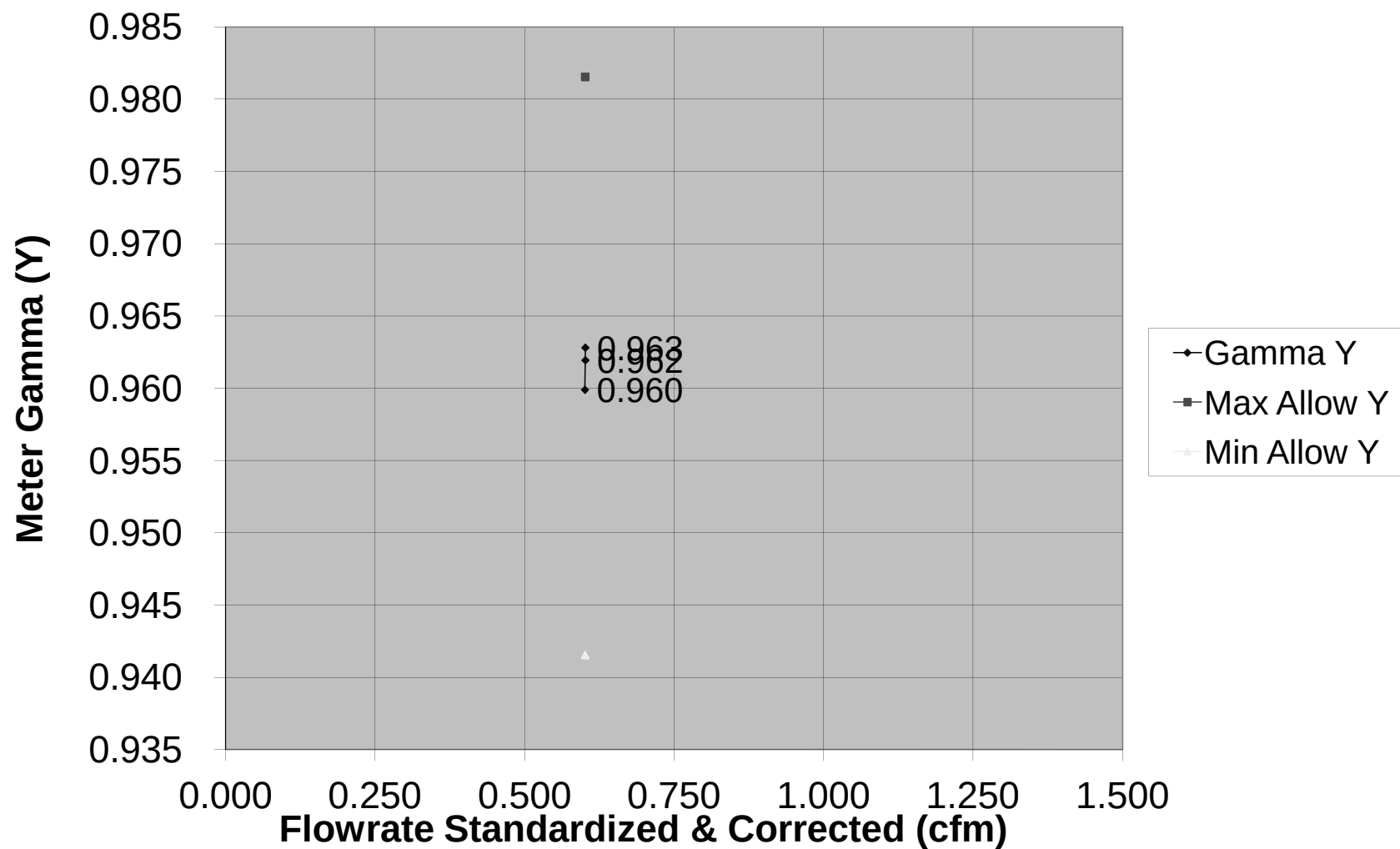
Signature: _____

Date _____

Calibration Date: 12-6-2013

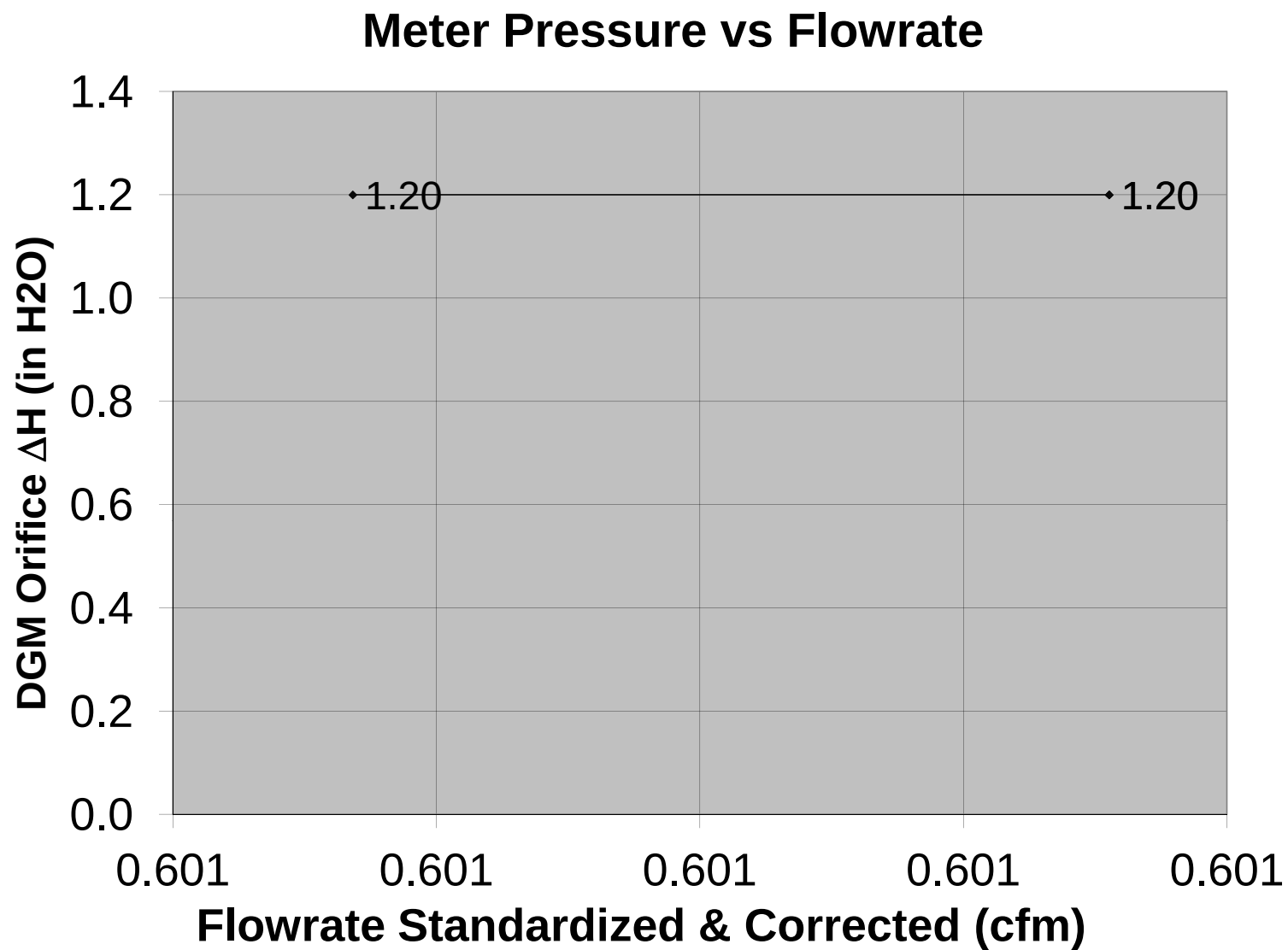
Calibration Technician: Joe Conti

Meter Gamma vs Flowrate



Console Serial: CEMS3MB

Console Model: XC-522



**APEX INSTRUMENTS METHOD 5 PRE-TEST CONSOLE CALIBRATION
USING CALIBRATED CRITICAL ORIFICES
5-POINT ENGLISH UNITS**

Meter Console Information	
Console Model Number	
Console Serial Number	CEMS7MB
DGM Model Number	
DGM Serial Number	

Calibration Conditions	
Date	31-Jul-13 14:35
Barometric Pressure	30.1 in Hg
Theoretical Critical Vacuum ¹	14.2 in Hg
Calibration Technician	D. Kopera

Factors/Conversions	
Std Temp	528 °R
Std Press	29.92 in Hg
K ₁	17.647 or/in Hg

¹For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

²The Critical Orifice Coefficient, K', must be entered in English units, (ft³•sec^{1/2})/(in.Hg^{1/2}•min).

Calibration Data				
Metering Console			Critical Orifice	
Run Time	DGM Orifice ΔH (P _m) in H ₂ O	Volume Initial (V _m) cubic feet	Volume Final (V _m) cubic feet	Outlet Temp Initial (t _m) °F
Elapsed (θ) min				Final (t _m) °F
7.0	3.20	535.100	542.397	88
8.0	1.80	542.397	548.626	89
10.0	1.1	548.626	554.696	89
12.0	0.69	554.696	560.301	90
17.0	0.32	560.301	565.624	90
				Serial Number
				OB-73
				OB-63
				OB-55
				OB-48
				OB-43
				Outlet Temp Final (t _m) °F
				89
				89
				90
				90
				90
				Coefficient K' see above ²
				0.7760
				0.5750
				0.4483
				0.3443
				0.2306
				Amb Temp Initial (t _{amb}) °F
				91
				91
				91
				93
				91
				90
				Amb Temp Final (t _{amb}) °F
				91
				91
				93
				91
				90
				Actual Vacuum in Hg
				16
				19
				20
				21
				23

Results									
Standardized Data					Dry Gas Meter				
Dry Gas Meter		Critical Orifice		Calibration Factor		Flowrate		ΔH @	
(V _{m(ssl)}) cubic feet	(Q _{m(ssl)}) cfm	(V _{cr(ssl)}) cubic feet	(Q _{cr(ssl)}) cfm	Value (Y)	Variation (ΔY)	Std & Corr (Q _{m(ssl)(corr)}) cfm	0.75 SCFM (ΔH@) in H ₂ O	Variation (ΔΔH@)	
7.110	1.016	6.955	0.994	0.978	0.002	0.994	1.792	-0.083	
6.043	0.755	5.889	0.736	0.974	-0.002	0.736	1.822	-0.053	
5.874	0.587	5.734	0.573	0.976	0.000	0.573	1.827	-0.048	
5.413	0.451	5.285	0.440	0.976	0.000	0.440	1.938	0.063	
5.136	0.302	5.020	0.295	0.977	0.001	0.295	1.995	0.120	
				0.976	Y Average		1.875	ΔH@ Average	

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +0.02.

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR 40 Part 60, using the Precision Wet Test Meter # 11AE6, which in turn was calibrated using the American Bell Prover # 3785, certificate # F-107, which is traceable to the National Bureau of Standards (N.I.S.T.).

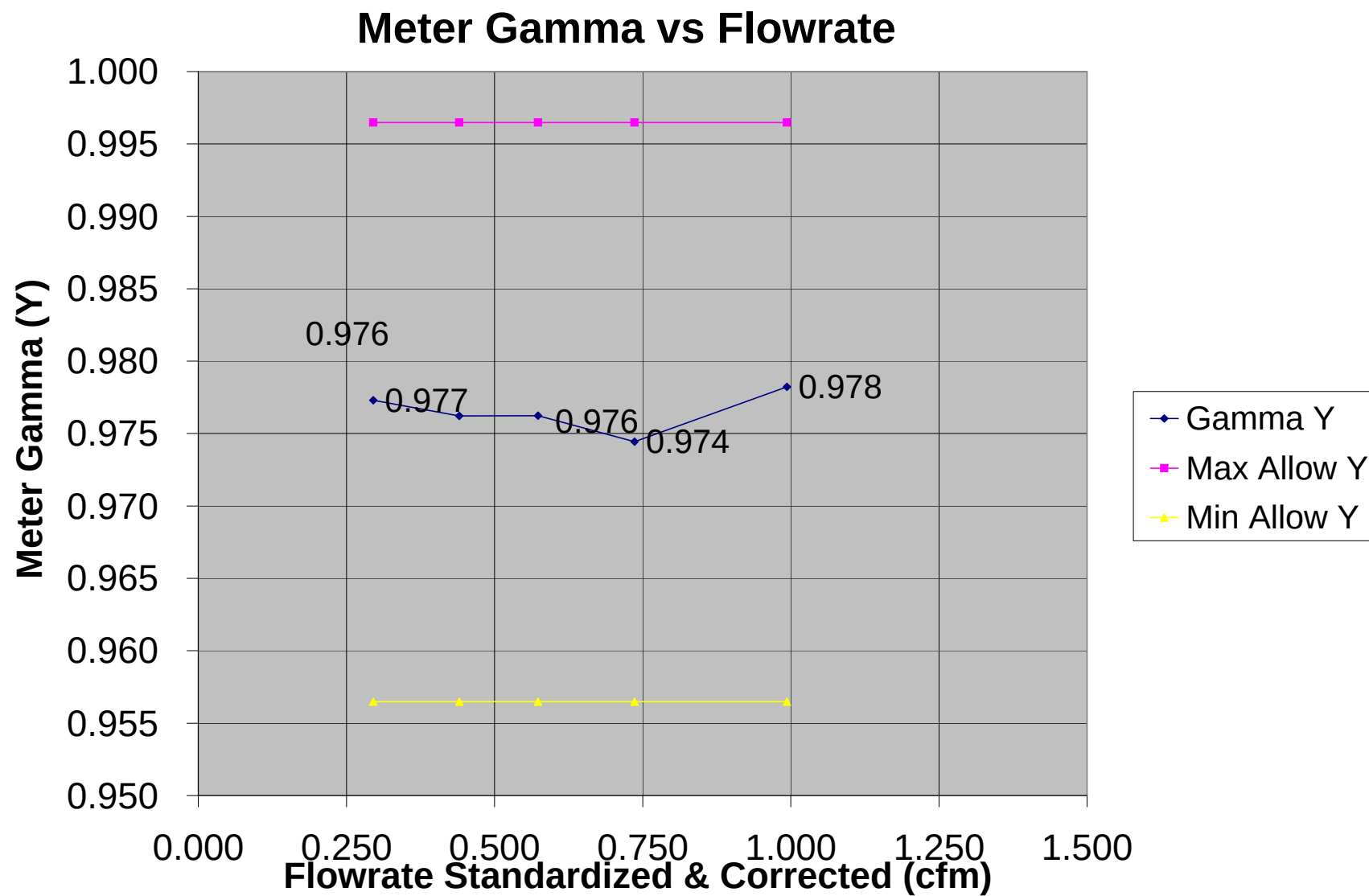
Signature

Date

[Handwritten Signature]
7/31/13

Calibration Date: 7-31-2013

Calibration Technician: D. Kopera

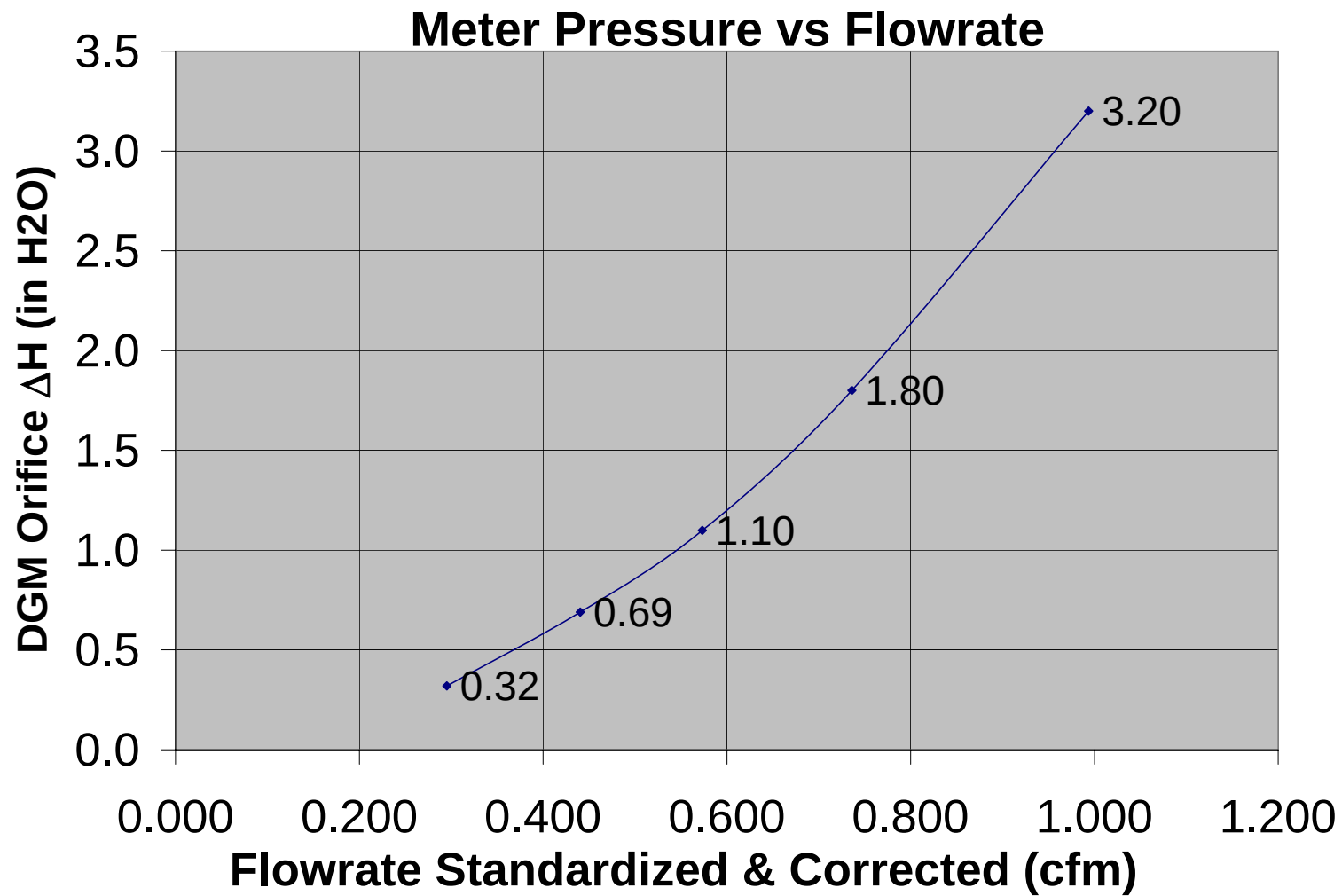


Console Serial: CEMS7MB

Console Model:

Calibration Date: 7-31-2013

Calibration Technician: D. Kopera



Console Serial: CEMS7MB

Console Model:

APEX INSTRUMENTS METHOD 5 POST-TEST CONSOLE CALIBRATION

USING CALIBRATED CRITICAL ORIFICES

3-POINT ENGLISH UNITS

Meter Console Information	
Console Model Number	M-522
Console Serial Number	CEM57MB
DGM Model Number	
DGM Serial Number	

Calibration Conditions	
Date	26-Nov-13
Time	15:20
Barometric Pressure	30.2 in Hg
Theoretical Critical Vacuum ¹	14.3 in Hg
Calibration Technician	Joe Conti

Factors/Conversions	
Std Temp	528 °R
Std Press	29.92 in Hg
K ₁	17.647 oR/in Hg

¹For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

²The Critical Orifice Coefficient, K₁, must be entered in English units, (ft³•s^{1/2}•R^{1/2})/(in.Hg^{1/2}•min).

Calibration Data			
Metering Console		Critical Orifice	
Run Time	Volume	Outlet Temp	Amb Temp
Elapsed (t)	Initial (V _{ini})	Final (t _{amb})	Initial (t _{amb})
min	cubic feet	°F	°F
7.0	581.797	76	74
7.0	587.325	77	74
7.0	592.856	77	74
7.0	598.399	77	74
			17
			17
			17

Results			
Standardized Data		Dry Gas Meter	
Critical Orifice		Flowrate	
(V _{ini})	(Q _{crit})	Std & Corr	ΔH @
cubic feet	cubic feet	(Q _{crit/corr})	(ΔH@)
cfm	cfm	cfm	in H ₂ O
5.517	0.788	0.765	1.832
5.515	0.788	0.765	1.830
5.527	0.790	0.765	1.830
		Y Average	ΔH@ Average
		0.970	1.830

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is ±0.02.

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR 40 Part 60, using the Precision Wet Test Meter # 11AE6, which in turn was calibrated using the American Bell Prover # 3785, certificate # E107, which is traceable to the National Bureau of Standards (N.I.S.T.).

Signature

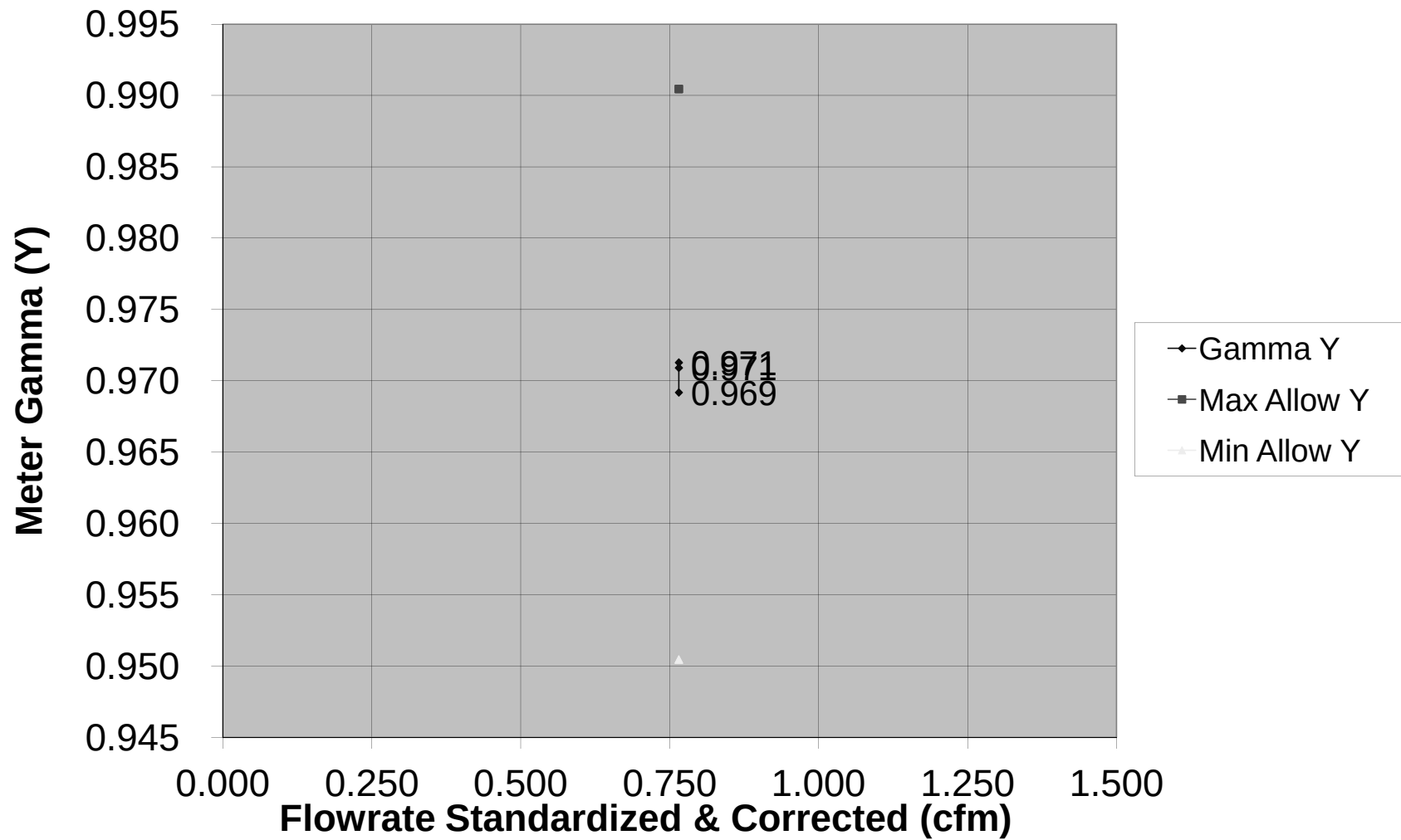
Date

11/26/2013

Calibration Date: 11-26-2013

Calibration Technician: Joe Conti

Meter Gamma vs Flowrate



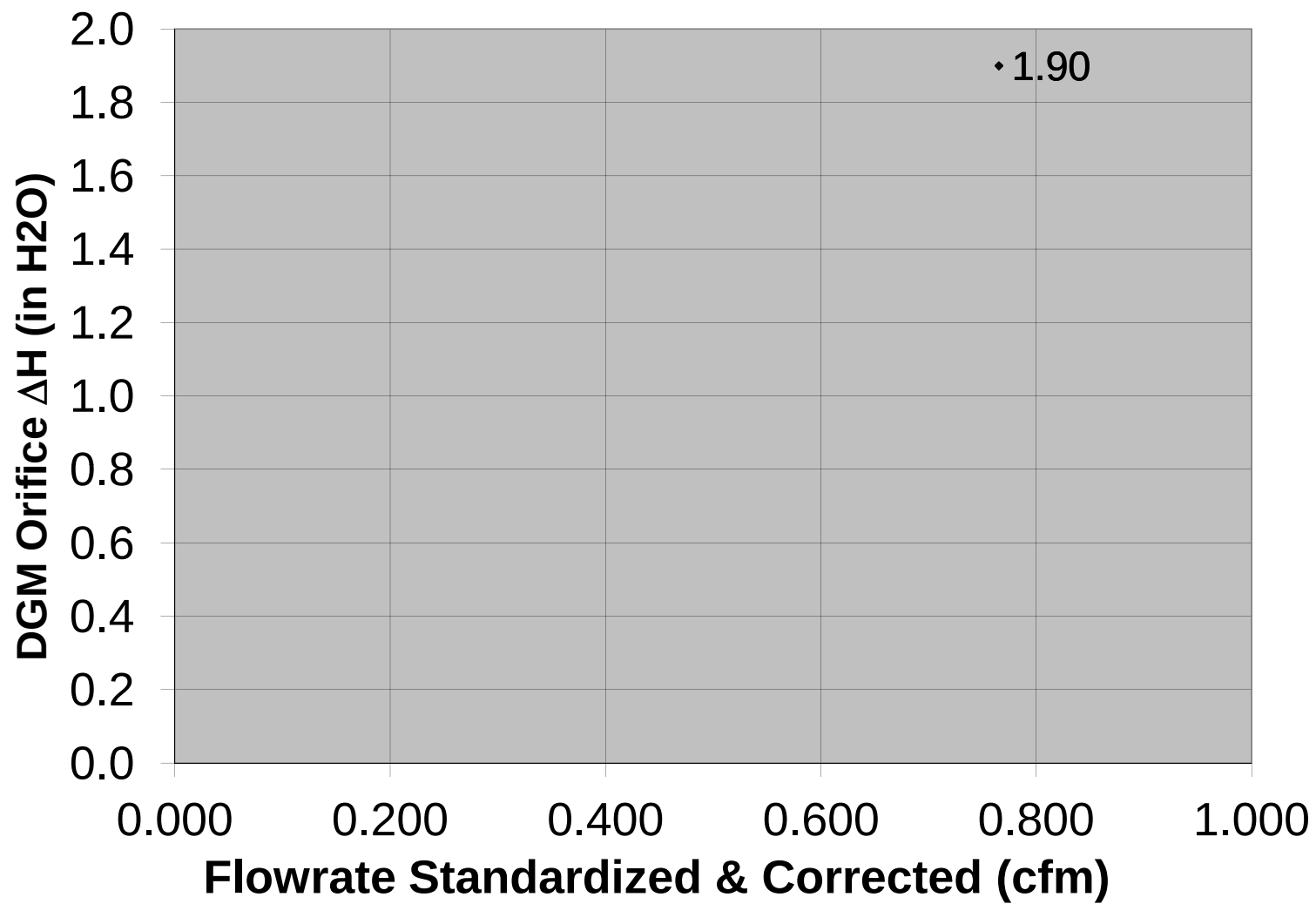
Console Serial: CEMS7MB

Console Model: M-522

Calibration Date: 11-26-2013

Calibration Technician: Joe Conti

Meter Pressure vs Flowrate

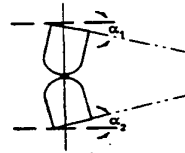


Console Serial: CEMS7MB

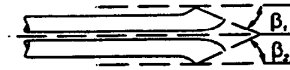
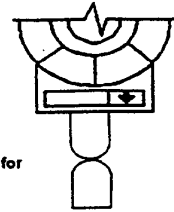
Console Model: M-522

C.E.M. Solutions, Inc.
Type S Pitot Tube Inspection

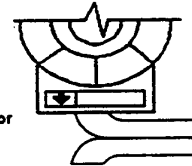
Date of Calibration	12/05/2013
Level and Perpendicular?	Yes
Obstruction?	No
Damaged?	No
α_1 ($-10^\circ < \alpha_1 < +10^\circ$)	0
α_2 ($-10^\circ < \alpha_2 < +10^\circ$)	0
β_1 ($-5^\circ < \beta_1 < +5^\circ$)	1
β_2 ($-5^\circ < \beta_2 < +5^\circ$)	0
γ	1
θ	0
D_t ($3/16" < D_t < 3/8"$)	0.377
A	0.955
$z = A \tan \gamma$ ($< 0.125"$)	0.017
$w = A \tan \theta$ ($< 0.03125"$)	0.000
$A/2D_t$ ($1.05 < P_A/D_t < 1.5$)	1.267



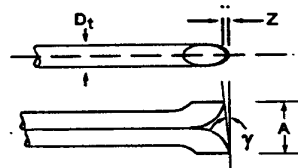
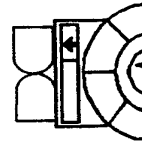
Degree indicating level position for determining α_1 and α_2 .



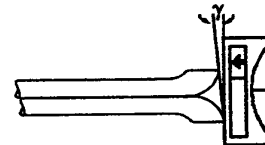
Degree indicating level position for determining β_1 and β_2 .



Degree indicating level position for determining θ .



Degree indicating level position for determining γ then calculate Z.



QA/QC Check:

Completeness: X
 Specifications: X

Legibility: X
 Accuracy: X

Reasonableness: X

Certification:

I certify that the Type S pitot tube/probe ID# PT-22 meets or exceeds all specifications, criteria and/or applicable design features and is hereby assigned a pitot tube calibration factor (C_p) of 0.84.

Certified by: Joe Conti 12/05/2013
 Personnel (Signature/Date)

C.E.M. Solutions, Inc.
Thermocouple Post Test Calibration Check

Standard: Reference Thermometer (calibrated against NIST standards)

Reference: ALT-011 Alternative Method 2 Thermocouple Calibration Procedure

Procedure: Measure ambient temperature with the Reference Thermometer and the Measurement Thermocouple System. Record Results. Next, check the continuity of the Measurement Thermocouple System by subjecting it to a change in temperature. The Measurement Thermocouple System must respond accordingly.

Tolerance: $\pm 2^{\circ}$ F of actual temperature

Plant: GREC
Thermocouple #: TC P-5

Date: 12/5/2013
Reference TC#: 80401750

Length (FT.)	Reference Temp. (°F)	Measured Temp. (°F)	Difference (°F)	Continuity Check (PASS/FAIL)
13	79.4	80	0.6	PASS

Signature: Joe Conti 12/5/2013

Appendix E: Reference Method Run Data

Gaseous RATA
Methods 3A, 6C, 7E, 10 Data

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	0.0 ppm	0.1 ppm	0.03
45.9 ppm NO _x	44.4 ppm	43.3 ppm	43.84
0.00 percent CO ₂	-0.01 %	0.04 %	0.01
19.04 percent CO ₂	19.33 %	19.05 %	19.19
0.0 ppm SO ₂	0.0 ppm	0.1 ppm	0.02
21.1 ppm SO ₂	21.1 ppm	19.6 ppm	20.33

Mean Reference Values:

25.7 ppm NO_x

13.26 percent CO₂

1.0 ppm SO₂

Corrected Results:

27.0 ppm NO_x

13.20 percent CO₂

1.0 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0020 SO₂ Lbs/mmBtu From CO₂

0.0450 NO_x Lbs/mmBtu From CO₂

Bws: **23.41 %**

Fuel Factors:

1830 scf/mmBtu

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	0.1 ppm	-0.1 ppm	0.00
45.9 ppm NO _x	43.3 ppm	43.6 ppm	43.45
0.00 percent CO ₂	0.04 %	0.11 %	0.07
19.04 percent CO ₂	19.05 %	19.16 %	19.10
0.0 ppm SO ₂	0.1 ppm	0.1 ppm	0.10
21.1 ppm SO ₂	19.6 ppm	21.0 ppm	20.29

Mean Reference Values:

24.5 ppm NO_x

12.89 percent CO₂

0.2 ppm SO₂

Corrected Results:

25.9 ppm NO_x

12.80 percent CO₂

0.1 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0000 SO₂ Lbs/mmBtu From CO₂

0.0440 NO_x Lbs/mmBtu From CO₂

Fuel Factors:

1830 scf/mmBtu

Bws: **21.26 %**

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	-0.1 ppm	0.2 ppm	0.06
45.9 ppm NO _x	43.6 ppm	43.8 ppm	43.72
0.00 percent CO ₂	0.11 %	0.00 %	0.05
19.04 percent CO ₂	19.16 %	18.97 %	19.06
0.0 ppm SO ₂	0.1 ppm	0.0 ppm	0.06
21.1 ppm SO ₂	21.0 ppm	20.5 ppm	20.76

Mean Reference Values:

24.9 ppm NO_x

13.10 percent CO₂

0.2 ppm SO₂

Corrected Results:

26.1 ppm NO_x

13.10 percent CO₂

0.2 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0000 SO₂ Lbs/mmBtu From CO₂

0.0440 NO_x Lbs/mmBtu From CO₂

Fuel Factors:

Bws: **22.80 %**

1830 scf/mmBtu

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 4

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	0.2 ppm	-0.1 ppm	0.07
45.9 ppm NO _x	43.8 ppm	43.9 ppm	43.86
0.00 percent CO ₂	0.00 %	0.07 %	0.03
19.04 percent CO ₂	18.97 %	19.11 %	19.04
0.0 ppm SO ₂	0.0 ppm	0.1 ppm	0.05
21.1 ppm SO ₂	20.5 ppm	20.3 ppm	20.40

Mean Reference Values:

24.9 ppm NO_x

13.17 percent CO₂

0.9 ppm SO₂

Corrected Results:

26.0 ppm NO_x

13.20 percent CO₂

0.9 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0020 SO₂ Lbs/mmBtu From CO₂

0.0430 NO_x Lbs/mmBtu From CO₂

Fuel Factors:

1830 scf/mmBtu

Bws: **21.81 %**

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 5

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	-0.1 ppm	0.1 ppm	0.03
45.9 ppm NO _x	43.9 ppm	44.6 ppm	44.24
0.00 percent CO ₂	0.07 %	-0.01 %	0.03
19.04 percent CO ₂	19.11 %	19.01 %	19.06
0.0 ppm SO ₂	0.1 ppm	0.0 ppm	0.05
21.1 ppm SO ₂	20.3 ppm	19.9 ppm	20.11

Mean Reference Values:

25.2 ppm NO_x

13.26 percent CO₂

0.2 ppm SO₂

Corrected Results:

26.2 ppm NO_x

13.20 percent CO₂

0.1 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0000 SO₂ Lbs/mmBtu From CO₂

0.0430 NO_x Lbs/mmBtu From CO₂

Bws: **22.10 %**

Fuel Factors:

1830 scf/mmBtu

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 6

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	0.1 ppm	0.0 ppm	0.09
45.9 ppm NO _x	44.6 ppm	43.8 ppm	44.21
0.00 percent CO ₂	-0.01 %	0.14 %	0.07
19.04 percent CO ₂	19.01 %	18.96 %	18.98
0.0 ppm SO ₂	0.0 ppm	0.2 ppm	0.09
21.1 ppm SO ₂	19.9 ppm	20.8 ppm	20.36

Mean Reference Values:

22.7 ppm NO_x

12.44 percent CO₂

1.8 ppm SO₂

Corrected Results:

23.6 ppm NO_x

12.50 percent CO₂

1.8 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0040 SO₂ Lbs/mmBtu From CO₂

0.0410 NO_x Lbs/mmBtu From CO₂

Fuel Factors:

Bws: **22.83 %**

1830 scf/mmBtu

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 7

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	0.0 ppm	0.5 ppm	0.25
45.9 ppm NO _x	43.8 ppm	44.2 ppm	44.03
0.00 percent CO ₂	0.14 %	0.00 %	0.07
19.04 percent CO ₂	18.96 %	19.04 %	19.00
0.0 ppm SO ₂	0.2 ppm	0.0 ppm	0.10
21.1 ppm SO ₂	20.8 ppm	21.0 ppm	20.87

Mean Reference Values:

22.5 ppm NO_x

12.65 percent CO₂

0.3 ppm SO₂

Corrected Results:

23.3 ppm NO_x

12.70 percent CO₂

0.2 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0000 SO₂ Lbs/mmBtu From CO₂

0.0400 NO_x Lbs/mmBtu From CO₂

Fuel Factors:

1830 scf/mmBtu

Bws: **21.44 %**

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 8

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	0.5 ppm	0.0 ppm	0.22
45.9 ppm NO _x	44.2 ppm	43.6 ppm	43.92
0.00 percent CO ₂	0.00 %	0.02 %	0.01
19.04 percent CO ₂	19.04 %	18.98 %	19.01
0.0 ppm SO ₂	0.0 ppm	0.1 ppm	0.07
21.1 ppm SO ₂	21.0 ppm	20.1 ppm	20.53

Mean Reference Values:

22.4 ppm NO_x

12.55 percent CO₂

1.7 ppm SO₂

Corrected Results:

23.3 ppm NO_x

12.60 percent CO₂

1.7 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0040 SO₂ Lbs/mmBtu From CO₂

0.0400 NO_x Lbs/mmBtu From CO₂

Fuel Factors:

1830 scf/mmBtu

Bws: **22.66 %**

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 9

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	0.0 ppm	0.3 ppm	0.13
45.9 ppm NO _x	Not Measured	43.6 ppm	43.64
0.00 percent CO ₂	0.02 %	-0.01 %	0.00
19.04 percent CO ₂	18.98 %	18.99 %	18.99
0.0 ppm SO ₂	0.1 ppm	0.1 ppm	0.08
21.1 ppm SO ₂	20.1 ppm	20.7 ppm	20.38

Mean Reference Values:

22.4 ppm NO_x

12.75 percent CO₂

0.2 ppm SO₂

Corrected Results:

23.5 ppm NO_x

12.80 percent CO₂

0.2 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0000 SO₂ Lbs/mmBtu From CO₂

0.0400 NO_x Lbs/mmBtu From CO₂

Fuel Factors:

1830 scf/mmBtu

Bws: **21.67 %**

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

RATA

Date:11/17/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 E. Overdrive Circle

Hernando, FL 34442

Ph: 352-489-4337

Run 10

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.0 ppm NO _x	0.3 ppm	0.4 ppm	0.35
45.9 ppm NO _x	Not Measured	44.9 ppm	44.88
0.00 percent CO ₂	-0.01 %	0.00 %	0.00
19.04 percent CO ₂	18.99 %	19.04 %	19.02
0.0 ppm SO ₂	0.1 ppm	0.1 ppm	0.08
21.1 ppm SO ₂	20.7 ppm	20.5 ppm	20.58

Mean Reference Values:

22.5 ppm NO_x

12.89 percent CO₂

1.3 ppm SO₂

Corrected Results:

22.9 ppm NO_x

12.90 percent CO₂

1.3 ppm SO₂

Basis:

WET

WET

WET

Emission Calculations:

0.0030 SO₂ Lbs/mmBtu From CO₂

0.0390 NO_x Lbs/mmBtu From CO₂

Bws: **22.34 %**

Fuel Factors:

1830 scf/mmBtu

filename 11/17/2013 8:12:26 C:\RMDATA\20131117.CSV
testby1 C.E.M. Solutions, Inc.
testby2 1183 E. Overdrive Circle
testby3 Hernando, FL 34442
testby4 Ph: 352-489-4337
testfor1 FAGEN
testfor2 GREC
testfor3 BFB Boiler (002)
testfor4 RATA

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet					
sn		903034509	1200951382	734726464					
offset		0	0	0					
fullscale		20	100	100					
train		1	1	1					
gastype		co2 3a	nox 7e	so2 6c					
dcg1	11/17/2013 8:15:00	13.75	23.5	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:15:15	13.79	23.1	0.1	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:15:30	13.80	23.5	0.1	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:15:45	13.78	23.9	0.1	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:16:00	12.13	23.9	0.1	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:16:15	5.72	23.9	0.3	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:16:30	0.72	8.3	0.3	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:16:45	0.07	1.2	0.2	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:17:00	0.01	0.6	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:17:15	0.00	0.4	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:17:30	0.00	0.2	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:17:45	-0.01	0.2	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:18:00	-0.01	0.1	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:18:15	-0.01	0.0	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:18:30	-0.01	0.0	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg1	11/17/2013 8:18:45	-0.01	0.0	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
co2zero1	11/17/2013 8:18:45	-0.01	0.0	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
noxzero1	11/17/2013 8:18:45	-0.01	0.0	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
so2zero1	11/17/2013 8:18:45	-0.01	0.0	0.0	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
dcg3	11/17/2013 8:19:00	-0.02	0.0	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:19:15	-0.02	-0.1	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:19:30	-0.02	-0.1	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:19:45	-0.02	-0.1	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:20:00	-0.02	-0.1	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:20:15	0.28	-0.1	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:20:30	5.20	-0.2	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:20:45	16.07	-0.2	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:21:00	19.20	-0.2	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:21:15	19.28	-0.2	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg3	11/17/2013 8:21:30	19.33	-0.2	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
co2high1	11/17/2013 8:21:30	19.33	-0.2	0.0	CC159366/cg3	O2	20.65 CO2	19.04	0 0 0
dcg5	11/17/2013 8:21:45	19.37	-0.2	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:22:00	19.41	-0.2	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:22:15	19.41	-0.2	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:22:30	19.41	-0.2	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:22:45	19.41	-0.3	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:23:00	17.04	-0.2	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:23:15	7.79	2.9	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:23:30	0.99	3.8	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:23:45	0.19	12.2	0.0	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:24:00	0.07	68.2	0.2	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:24:15	0.04	84.6	0.3	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:24:30	0.03	87.8	0.3	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:24:45	0.02	89.1	0.3	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:25:00	0.00	90.1	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:25:15	0.00	90.3	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:25:30	0.00	91.4	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:25:45	0.00	91.7	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:26:00	-0.01	92.0	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:26:15	-0.01	92.4	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:26:30	-0.01	92.7	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:26:45	-0.01	93.0	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:27:00	-0.01	93.2	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:27:15	-0.01	95.2	0.3	CC237797/cg5	NOx	96.79	0	0 0 0
dcg5	11/17/2013 8:27:30	-0.01	97.0	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
noxhigh1	11/17/2013 8:27:30	-0.01	97.0	0.4	CC237797/cg5	NOx	96.79	0	0 0 0
dcg13	11/17/2013 8:28:00	-0.01	97.1	0.3	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:28:15	-0.01	97.5	0.4	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:28:30	-0.02	97.5	0.4	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:28:45	-0.02	97.5	0.4	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:29:00	0.11	96.9	0.3	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:29:15	0.12	85.4	1.8	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:29:30	-0.01	15.8	18.7	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:29:45	-0.02	6.5	30.5	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:30:00	-0.02	5.5	39.7	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:30:15	-0.02	5.1	44.1	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:30:30	-0.02	4.6	47.2	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:30:45	-0.02	4.4	48.3	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:31:00	-0.02	4.2	48.7	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:31:15	-0.02	4.1	49.0	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:31:30	-0.02	3.9	49.3	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:31:45	-0.02	3.8	49.6	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:32:00	-0.02	3.8	49.7	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:32:15	-0.02	3.7	49.8	CC17908/cg13	SO2	50.64	0	0 0 0
dcg13	11/17/2013 8:32:30	-0.02	3.6	50.1	CC17908/cg13	SO2	50.64	0	0 0 0
so2high1	11/17/2013 8:32:30	-0.02	3.6	50.1	CC17908/cg13	SO2	50.64	0	0 0 0
dcg12	11/17/2013 8:33:00	-0.02	3.5	50.5	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:33:15	-0.02	3.5	50.7	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:33:30	-0.02	3.4	50.2	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:33:45	0.01	3.3	50.4	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:34:00	0.55	5.4	50.9	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:34:15	0.51	16.6	37.4	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:34:30	0.00	39.4	16.4	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:34:45	-0.01	41.8	9.1	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:35:00	-0.01	42.3	4.7	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:35:15	-0.02	42.6	2.9	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:35:30	-0.02	43.1	1.8	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:35:45	-0.02	43.2	1.3	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:36:00	-0.02	43.1	1.1	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:36:15	-0.02	44.0	0.9	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:36:30	-0.02	44.3	0.8	SG9136781BAL/cg12	NOx	45.94	0	0 0 0
dcg12	11/17/2013 8:36:45	-0.02	44.4	0.7	SG9136781BAL/cg12	NOx	45.94	0	0 0 0

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet					
sn		903034509	1200951382	734726464					
offset		0	0	0					
fullscale		20	100	100					
train		1	1	1					
gastype		co2 3a	nox 7e	so2 6c					
noxmid1	11/17/2013 8:36:45	-0.02	44.4	0.7 SG9136781BAL/cg12	NOx	45.94	0	0	0
dcg5	11/17/2013 8:37:00	-0.02	44.5	0.7 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:37:15	-0.02	44.6	0.7 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:37:30	-0.02	44.7	0.6 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:37:45	-0.02	44.5	0.6 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:38:00	-0.02	44.5	0.5 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:38:15	-0.02	45.8	0.5 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:38:30	-0.02	85.2	0.5 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:38:45	-0.02	95.6	0.5 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:39:00	-0.02	98.6	0.5 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:39:15	-0.02	99.8	0.5 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:39:30	-0.02	98.7	0.7 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:39:45	-0.02	97.2	0.6 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:40:00	-0.02	97.0	0.5 CC237797/cg5	NOx	96.79	0	0	0
dcg5	11/17/2013 8:40:15	-0.02	97.5	0.5 CC237797/cg5	NOx	96.79	0	0	0
noxhigh1	11/17/2013 8:40:15	-0.02	97.5	0.5 CC237797/cg5	NOx	96.79	0	0	0
dcg2	11/17/2013 8:40:30	-0.02	99.0	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:40:45	-0.02	101.5	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:41:00	-0.02	102.1	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:41:15	-0.02	102.1	0.6 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:41:30	-0.02	102.1	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:41:45	0.41	102.1	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:42:00	3.79	38.5	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:42:15	9.27	12.9	1.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:42:30	12.70	27.0	2.3 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:42:45	13.35	28.4	1.9 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:43:00	13.32	29.0	1.3 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:43:15	13.31	28.8	1.1 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:43:30	13.29	28.3	0.8 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:43:45	13.27	28.4	0.7 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:44:00	13.24	27.7	0.6 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:44:15	13.26	27.5	0.6 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:44:30	13.30	27.1	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:44:45	13.35	26.8	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:45:00	13.39	26.8	0.5 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:45:15	12.43	25.8	0.4 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:45:30	9.97	4.4	0.2 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:45:45	9.08	1.9	0.2 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:46:00	8.65	3.9	0.2 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:46:15	8.75	4.3	0.2 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:46:30	9.26	0.9	0.1 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:46:45	9.29	0.7	0.1 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:47:00	9.26	0.6	0.1 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:47:15	9.26	0.6	0.1 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg2	11/17/2013 8:47:30	9.26	0.5	0.0 CC427751/cg2	O2	10.03 CO2	9.621	0	0
co2mid1	11/17/2013 8:47:15	9.26	0.6	0.1 CC427751/cg2	O2	10.03 CO2	9.621	0	0
dcg6	11/17/2013 8:47:45	9.26	0.5	0.0 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:48:00	9.27	0.4	0.0 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:48:15	9.27	0.4	0.0 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:48:30	9.28	0.4	0.1 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:48:45	9.29	0.3	0.0 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:49:00	5.46	0.5	2.6 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:49:15	1.58	0.6	9.1 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:49:30	0.14	0.3	13.4 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:49:45	0.08	0.1	14.8 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:50:00	0.06	0.1	15.6 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:50:15	0.06	0.1	16.4 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:50:30	0.05	0.1	17.0 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:50:45	0.03	0.1	17.2 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:51:00	0.02	0.0	17.3 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:51:15	0.02	0.0	17.3 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:51:30	0.01	0.0	17.6 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:51:45	0.00	0.0	17.6 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:52:00	0.00	0.0	17.7 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:52:15	0.00	0.0	17.8 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:52:30	0.00	0.0	17.9 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:52:45	0.00	0.0	17.8 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:53:00	0.00	-0.1	18.0 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:53:15	-0.01	-0.1	18.0 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:53:30	-0.01	-0.1	18.0 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:53:45	-0.01	-0.1	18.2 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:54:00	-0.01	-0.1	18.2 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:54:15	-0.01	-0.1	18.1 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:54:30	-0.01	-0.1	18.1 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:54:45	-0.01	-0.1	18.1 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:55:00	-0.02	-0.1	18.2 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:55:15	-0.02	-0.1	18.3 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:55:30	-0.02	-0.2	18.7 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:55:45	-0.02	-0.2	19.5 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:56:00	-0.02	-0.2	20.4 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:56:15	-0.02	-0.2	20.7 CC277740/cg6	SO2	21.14	0	0	0
dcg6	11/17/2013 8:56:30	-0.02	-0.1	21.1 CC277740/cg6	SO2	21.14	0	0	0
so2mid1	11/17/2013 8:56:30	-0.02	-0.1	21.1 CC277740/cg6	SO2	21.14	0	0	0
dcg13	11/17/2013 8:56:45	-0.02	-0.2	21.4 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:57:00	-0.02	-0.2	21.6 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:57:15	-0.02	-0.2	21.8 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:57:30	-0.02	-0.2	22.0 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:57:45	-0.02	-0.2	21.9 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:58:00	-0.02	0.0	23.9 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:58:15	-0.02	1.8	33.2 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:58:30	-0.02	2.8	43.3 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:58:45	-0.02	2.8	47.4 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:59:00	-0.02	2.9	50.4 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:59:15	-0.02	2.9	51.2 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:59:30	-0.02	2.9	51.8 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 8:59:45	-0.02	2.9	52.2 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 9:00:00	-0.02	2.9	52.4 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 9:00:15	-0.02	2.9	52.5 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 9:00:30	-0.02	2.9	52.4 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 9:00:45	-0.02	2.9	52.2 CC17908/cg13	SO2	50.64	0	0	0
dcg13	11/17/2013 9:01:00	-0.02	3.0	52.3 CC17908/cg13	SO2	50.64	0	0	0

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name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet
sn		903034509	1200951382	734726464
offset		0	0	0
fullscale		20	100	100
train		1	1	1
gastype		co2 3a	nox 7e	so2 6c
run1	11/17/2013 10:01:15	13.36	26.5	0.9
run1	11/17/2013 10:01:30	13.34	27.0	0.9
run1	11/17/2013 10:01:45	13.35	27.1	1.1
run1	11/17/2013 10:02:00	13.35	27.4	1.0
run1	11/17/2013 10:02:15	13.26	27.5	1.0
run1	11/17/2013 10:02:30	13.12	27.2	1.0
run1	11/17/2013 10:02:45	13.12	27.2	1.0
run1	11/17/2013 10:03:00	13.17	27.0	1.1
run1	11/17/2013 10:03:15	13.21	27.1	1.1
run1	11/17/2013 10:03:30	13.21	27.1	1.0
run1	11/17/2013 10:03:45	13.12	26.9	1.1
run1	11/17/2013 10:04:00	13.10	26.8	1.0
run1	11/17/2013 10:04:15	13.09	27.3	1.0
run1	11/17/2013 10:04:30	13.02	27.7	1.0
run1	11/17/2013 10:04:45	13.03	27.7	1.0
run1	11/17/2013 10:05:00	13.06	27.2	1.0
run1	11/17/2013 10:05:15	13.08	27.3	1.0
run1	11/17/2013 10:05:30	13.08	27.9	1.0
run1	11/17/2013 10:05:45	13.05	27.8	0.9
run1	11/17/2013 10:06:00	13.13	27.3	0.9
run1	11/17/2013 10:06:15	13.18	27.2	0.9
run1	11/17/2013 10:06:30	13.18	26.9	0.9
run1	11/17/2013 10:06:45	13.19	26.8	1.0
run1	11/17/2013 10:07:00	13.19	27.0	1.0
run1	11/17/2013 10:07:15	13.18	26.8	1.0
run1	11/17/2013 10:07:30	13.17	26.5	1.0
run1	11/17/2013 10:07:45	13.18	26.5	1.0
run1	11/17/2013 10:08:00	13.16	26.1	1.0
run1	11/17/2013 10:08:15	13.10	26.4	1.0
run1	11/17/2013 10:08:30	13.04	26.4	1.0
run1	11/17/2013 10:08:45	13.01	26.4	1.0
run1	11/17/2013 10:09:00	13.02	26.4	1.0
run1	11/17/2013 10:09:15	13.07	26.3	1.0
run1	11/17/2013 10:09:30	13.23	25.7	0.9
run1	11/17/2013 10:09:45	13.35	25.7	1.0
run1	11/17/2013 10:10:00	13.43	25.6	0.9
run1	11/17/2013 10:10:15	13.37	25.7	0.9
run1	11/17/2013 10:10:30	13.27	25.9	0.9
run1	11/17/2013 10:10:45	13.31	25.9	1.0
run1	11/17/2013 10:11:00	13.45	25.4	1.0
run1	11/17/2013 10:11:15	13.49	25.4	0.9
run1	11/17/2013 10:11:30	13.47	25.5	0.9
run1	11/17/2013 10:11:45	13.40	25.2	0.9
run1	11/17/2013 10:12:00	13.32	25.5	0.9
run1	11/17/2013 10:12:15	13.30	25.3	1.0
run1	11/17/2013 10:12:30	13.32	25.2	1.0
run1	11/17/2013 10:12:45	13.36	25.1	0.9
run1	11/17/2013 10:13:00	13.44	24.9	0.9
run1	11/17/2013 10:13:15	13.44	24.7	0.9
run1	11/17/2013 10:13:30	13.40	25.0	1.0
run1	11/17/2013 10:13:45	13.40	25.0	0.9
run1	11/17/2013 10:14:00	13.35	25.3	1.0
run1	11/17/2013 10:14:15	13.29	24.9	1.0
run1	11/17/2013 10:14:30	13.28	24.6	1.0
run1	11/17/2013 10:14:45	13.28	24.8	0.9
run1	11/17/2013 10:15:00	13.25	24.9	1.1
run1	11/17/2013 10:15:15	13.25	24.7	1.0
run1	11/17/2013 10:15:30	13.26	24.7	0.9
run1	11/17/2013 10:15:45	13.25	25.0	1.0
run1	11/17/2013 10:16:00	13.21	25.1	1.0
run1	11/17/2013 10:16:15	13.21	25.0	0.9
run1	11/17/2013 10:16:30	13.21	25.2	1.0
run1	11/17/2013 10:16:45	13.17	25.4	1.0
run1	11/17/2013 10:17:00	13.17	25.3	1.0
run1	11/17/2013 10:17:15	13.21	25.3	0.9
run1	11/17/2013 10:17:30	13.23	25.6	0.9
run1	11/17/2013 10:17:45	13.27	25.5	1.0
run1	11/17/2013 10:18:00	13.38	25.4	0.9
run1	11/17/2013 10:18:15	13.40	25.3	1.0
run1	11/17/2013 10:18:30	13.28	25.9	0.9
run1	11/17/2013 10:18:45	13.24	25.8	1.0
run1	11/17/2013 10:19:00	13.28	25.4	1.0
run1	11/17/2013 10:19:15	13.26	25.3	1.0
run1	11/17/2013 10:19:30	13.21	25.4	1.0
run1	11/17/2013 10:19:45	13.20	25.6	1.0
run1	11/17/2013 10:20:00	13.23	25.3	1.0
run1	11/17/2013 10:20:15	13.23	25.5	1.0
run1	11/17/2013 10:20:30	13.15	26.0	0.9
run1	11/17/2013 10:20:45	13.06	26.4	0.9
run1	11/17/2013 10:21:00	13.04	26.5	0.9
run1	11/17/2013 10:21:15	13.10	26.3	0.9
run1	11/17/2013 10:21:30	13.21	26.1	1.0
run1	11/17/2013 10:21:45	13.27	25.9	0.9
run1	11/17/2013 10:22:00	13.27	26.0	0.9
run1	11/17/2013 10:22:15	13.23	26.2	1.0
run1	11/17/2013 10:22:30	13.27	26.1	0.9
run1	11/17/2013 10:22:45	13.33	26.1	0.9
run1	11/17/2013 10:23:00	13.26	26.6	0.9
run1	11/17/2013 10:23:15	13.22	26.8	0.9
run1	11/17/2013 10:23:30	13.28	27.2	0.9
run1	11/17/2013 10:23:45	13.31	27.1	0.9
run1	11/17/2013 10:24:00	13.28	27.1	1.0
run1	11/17/2013 10:24:15	13.23	27.1	1.0
run1	11/17/2013 10:24:30	13.24	26.7	1.0
run1	11/17/2013 10:24:45	13.31	26.5	0.9
run1	11/17/2013 10:25:00	13.34	26.5	1.0
run1	11/17/2013 10:25:15	13.29	26.9	0.9
run1	11/17/2013 10:25:30	13.22	26.6	1.0
run1	11/17/2013 10:25:45	13.20	26.5	1.0
run1	11/17/2013 10:26:00	13.20	26.4	1.0
run1	11/17/2013 10:26:15	13.15	26.6	1.0

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet				
sn		903034509	1200951382	734726464				
offset		0	0	0				
fullscale		20	100	100				
train		1	1	1				
gastype		co2 3a	nox 7e	so2 6c				
run1	11/17/2013 10:26:30	13.06	26.9	1.0				
run1	11/17/2013 10:26:45	13.02	26.7	1.1				
run1	11/17/2013 10:27:00	13.04	26.2	1.0				
run1	11/17/2013 10:27:15	13.11	26.4	1.0				
run1	11/17/2013 10:27:30	13.27	26.5	0.9				
run1	11/17/2013 10:27:45	13.37	26.4	0.9				
run1	11/17/2013 10:28:00	13.39	25.9	0.9				
run1	11/17/2013 10:28:15	13.40	25.7	0.9				
run1	11/17/2013 10:28:30	13.44	25.1	1.0				
run1	11/17/2013 10:28:45	13.39	25.3	1.0				
run1	11/17/2013 10:29:00	13.18	25.9	1.0				
run1	11/17/2013 10:29:15	13.11	26.1	1.0				
run1	11/17/2013 10:29:30	13.18	25.8	0.9				
run1	11/17/2013 10:29:45	13.27	25.5	0.9				
run1	11/17/2013 10:30:00	13.29	25.6	0.9				
run1	11/17/2013 10:30:15	13.25	25.4	1.0				
run1	11/17/2013 10:30:30	13.25	25.9	0.9				
run1	11/17/2013 10:30:45	13.27	25.6	0.9				
run1	11/17/2013 10:31:00	13.23	25.6	0.9				
run1	11/17/2013 10:31:15	13.22	25.6	1.0				
run1	11/17/2013 10:31:30	13.25	25.6	1.0				
run1	11/17/2013 10:31:45	13.35	25.4	1.0				
run1	11/17/2013 10:32:00	13.47	25.3	1.1				
run1	11/17/2013 10:32:15	13.51	25.2	1.0				
run1	11/17/2013 10:32:30	13.40	25.3	0.9				
run1	11/17/2013 10:32:45	13.32	25.5	1.0				
run1	11/17/2013 10:33:00	13.33	25.1	1.0				
run1	11/17/2013 10:33:15	13.32	25.0	1.0				
run1	11/17/2013 10:33:30	13.32	24.8	1.0				
run1	11/17/2013 10:33:45	13.36	25.1	1.0				
run1	11/17/2013 10:34:00	13.34	24.9	1.0				
run1	11/17/2013 10:34:15	13.32	24.8	1.0				
run1	11/17/2013 10:34:30	13.35	24.7	0.8				
run1	11/17/2013 10:34:45	13.32	24.7	0.8				
averun1	11/17/2013 10:14	13.26	25.7	1.0	21			
scg6	11/17/2013 10:36:15	13.31	24.3	0.9 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:36:30	13.29	24.5	0.9 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:36:45	13.25	24.5	0.9 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:37:00	13.21	24.4	0.9 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:37:15	8.91	23.8	1.8 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:37:30	1.87	24.3	5.6 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:37:45	0.16	4.4	11.6 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:38:00	0.02	0.9	15.9 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:38:15	0.02	0.7	17.5 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:38:30	0.00	0.5	18.4 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:38:45	0.00	0.4	18.9 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:39:00	0.00	0.3	19.3 CC277740/cg6	SO2 21.14	0	0	0
scg6	11/17/2013 10:39:15	0.00	0.2	19.6 CC277740/cg6	SO2 21.14	0	0	0
so2span1	11/17/2013 10:39:15	0.00	0.2	19.6 CC277740/cg6	SO2 21.14	0	0	0
scg12	11/17/2013 10:39:45	-0.01	0.1	20.1 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:40:00	-0.01	0.1	20.3 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:40:15	-0.01	0.1	20.3 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:40:30	-0.01	0.0	20.4 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:40:45	-0.02	0.0	20.1 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:41:00	-0.02	17.8	14.6 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:41:15	-0.02	40.4	7.9 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:41:30	-0.02	42.6	3.5 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:41:45	-0.02	43.1	2.2 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg12	11/17/2013 10:42:00	-0.02	43.3	1.4 SG9136781BAL/cg12	NOx 45.94	0	0	0
noxspan1	11/17/2013 10:42:00	-0.02	43.3	1.4 SG9136781BAL/cg12	NOx 45.94	0	0	0
scg3	11/17/2013 10:42:15	-0.02	43.7	1.0 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:42:30	-0.02	43.9	0.8 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:42:45	-0.02	44.2	0.7 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:43:00	-0.02	44.1	0.6 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:43:15	-0.02	44.5	0.6 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:43:30	0.97	42.5	0.5 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:43:45	6.09	17.1	0.4 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:44:00	18.32	1.4	0.3 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:44:15	19.01	0.9	0.3 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg3	11/17/2013 10:44:30	19.05	0.7	0.2 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
co2span1	11/17/2013 10:44:30	19.05	0.7	0.2 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0
scg1	11/17/2013 10:44:45	19.06	0.6	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:45:00	19.06	0.5	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:45:15	19.06	0.5	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:45:30	19.07	0.3	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:45:45	19.01	0.3	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:46:00	14.58	0.3	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:46:15	4.66	0.2	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:46:30	0.36	0.0	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:46:45	0.13	0.0	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:47:00	0.10	0.0	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:47:15	0.08	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:47:30	0.06	0.1	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:47:45	0.05	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
scg1	11/17/2013 10:48:00	0.04	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
co2zero1	11/17/2013 10:48:00	0.04	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
noxzero1	11/17/2013 10:48:00	0.04	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
so2zero1	11/17/2013 10:48:00	0.04	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0			
run2	11/17/2013 10:49:45	4.44	12.3	2.1				
run2	11/17/2013 10:50:00	11.94	22.2	2.2				
run2	11/17/2013 10:50:15	12.77	23.3	1.7				
run2	11/17/2013 10:50:30	12.67	24.1	1.2				
run2	11/17/2013 10:50:45	12.68	24.0	0.9				
run2	11/17/2013 10:51:00	12.76	24.0	0.7				
run2	11/17/2013 10:51:15	12.80	23.9	0.7				
run2	11/17/2013 10:51:30	12.78	24.0	0.6				
run2	11/17/2013 10:51:45	12.73	24.0	0.5				
run2	11/17/2013 10:52:00	12.72	24.0	0.5				
run2	11/17/2013 10:52:15	12.73	24.1	0.4				
run2	11/17/2013 10:52:30	12.71	23.9	0.4				
run2	11/17/2013 10:52:45	12.67	23.9	0.4				

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet					
sn		903034509	1200951382	734726464					
offset		0	0	0					
fullscale		20	100	100					
train		1	1	1					
gastype		co2 3a	nox 7e	so2 6c					
run2	11/17/2013 10:53:00	12.61	23.9	0.3					
run2	11/17/2013 10:53:15	12.63	23.9	0.3					
run2	11/17/2013 10:53:30	12.75	23.9	0.3					
run2	11/17/2013 10:53:45	12.82	23.8	0.3					
run2	11/17/2013 10:54:00	12.88	24.0	0.3					
run2	11/17/2013 10:54:15	12.89	24.3	0.3					
run2	11/17/2013 10:54:30	12.90	24.2	0.3					
run2	11/17/2013 10:54:45	12.94	23.8	0.3					
run2	11/17/2013 10:55:00	12.90	24.0	0.3					
run2	11/17/2013 10:55:15	12.86	23.9	0.3					
run2	11/17/2013 10:55:30	12.86	23.9	0.3					
run2	11/17/2013 10:55:45	12.81	24.1	0.2					
run2	11/17/2013 10:56:00	12.77	23.9	0.2					
run2	11/17/2013 10:56:15	12.82	23.6	0.3					
run2	11/17/2013 10:56:30	12.93	23.0	0.3					
run2	11/17/2013 10:56:45	13.01	23.4	0.2					
run2	11/17/2013 10:57:00	13.01	23.3	0.2					
run2	11/17/2013 10:57:15	13.03	23.4	0.2					
run2	11/17/2013 10:57:30	13.07	23.5	0.2					
run2	11/17/2013 10:57:45	13.08	23.6	0.2					
run2	11/17/2013 10:58:00	13.02	23.9	0.3					
run2	11/17/2013 10:58:15	12.95	23.8	0.3					
run2	11/17/2013 10:58:30	12.87	23.8	0.2					
run2	11/17/2013 10:58:45	12.83	23.7	0.3					
run2	11/17/2013 10:59:00	12.83	23.7	0.2					
run2	11/17/2013 10:59:15	12.87	23.6	0.2					
run2	11/17/2013 10:59:30	12.87	23.5	0.2					
run2	11/17/2013 10:59:45	12.83	23.7	0.2					
run2	11/17/2013 11:00:00	12.83	23.9	0.2					
run2	11/17/2013 11:00:15	12.84	23.9	0.2					
run2	11/17/2013 11:00:30	12.85	23.7	0.3					
run2	11/17/2013 11:00:45	12.87	23.7	0.2					
run2	11/17/2013 11:01:00	12.89	23.7	0.2					
run2	11/17/2013 11:01:15	12.97	23.7	0.2					
run2	11/17/2013 11:01:30	13.03	24.0	0.2					
run2	11/17/2013 11:01:45	13.00	24.1	0.2					
run2	11/17/2013 11:02:00	12.93	24.3	0.2					
run2	11/17/2013 11:02:15	12.89	24.7	0.2					
run2	11/17/2013 11:02:30	12.95	24.6	0.2					
run2	11/17/2013 11:02:45	12.99	24.3	0.2					
run2	11/17/2013 11:03:00	12.97	24.5	0.2					
run2	11/17/2013 11:03:15	12.93	24.9	0.2					
run2	11/17/2013 11:03:30	12.95	24.8	0.1					
run2	11/17/2013 11:03:45	12.97	24.8	0.2					
run2	11/17/2013 11:04:00	12.90	25.2	0.2					
run2	11/17/2013 11:04:15	12.86	25.5	0.1					
run2	11/17/2013 11:04:30	12.88	25.5	0.2					
run2	11/17/2013 11:04:45	12.89	25.5	0.2					
run2	11/17/2013 11:05:00	12.86	25.8	0.2					
run2	11/17/2013 11:05:15	12.89	26.1	0.2					
run2	11/17/2013 11:05:30	12.89	26.2	0.2					
run2	11/17/2013 11:05:45	12.85	26.0	0.2					
run2	11/17/2013 11:06:00	12.80	26.2	0.2					
run2	11/17/2013 11:06:15	12.70	26.2	0.2					
run2	11/17/2013 11:06:30	12.63	26.3	0.1					
run2	11/17/2013 11:06:45	12.67	26.2	0.1					
run2	11/17/2013 11:07:00	12.74	25.9	0.2					
run2	11/17/2013 11:07:15	12.77	25.7	0.1					
run2	11/17/2013 11:07:30	12.78	25.8	0.2					
run2	11/17/2013 11:07:45	12.72	26.1	0.2					
run2	11/17/2013 11:08:00	12.64	26.2	0.2					
run2	11/17/2013 11:08:15	12.66	25.9	0.2					
run2	11/17/2013 11:08:30	12.74	25.5	0.2					
run2	11/17/2013 11:08:45	12.77	25.5	0.2					
run2	11/17/2013 11:09:00	12.79	25.3	0.2					
run2	11/17/2013 11:09:15	12.82	25.3	0.2					
run2	11/17/2013 11:09:30	12.78	25.2	0.2					
run2	11/17/2013 11:09:45	12.73	25.1	0.2					
run2	11/17/2013 11:10:00	12.81	24.9	0.2					
run2	11/17/2013 11:10:15	12.91	24.5	0.2					
run2	11/17/2013 11:10:30	12.94	24.6	0.2					
run2	11/17/2013 11:10:45	12.90	24.4	0.2					
run2	11/17/2013 11:11:00	12.88	24.5	0.2					
run2	11/17/2013 11:11:15	12.90	24.4	0.2					
run2	11/17/2013 11:11:30	12.89	24.4	0.2					
run2	11/17/2013 11:11:45	12.89	24.3	0.1					
run2	11/17/2013 11:12:00	12.87	23.9	0.0					
run2	11/17/2013 11:12:15	12.85	23.8	0.2					
run2	11/17/2013 11:12:30	12.90	23.9	0.2					
run2	11/17/2013 11:12:45	12.96	24.0	0.2					
run2	11/17/2013 11:13:00	12.97	24.1	0.2					
run2	11/17/2013 11:13:15	12.98	24.0	0.1					
run2	11/17/2013 11:13:30	12.97	23.6	0.2					
run2	11/17/2013 11:13:45	12.96	23.7	0.1					
run2	11/17/2013 11:14:00	13.03	23.7	0.2					
run2	11/17/2013 11:14:15	13.01	23.7	0.1					
run2	11/17/2013 11:14:30	12.94	24.0	0.2					
run2	11/17/2013 11:14:45	12.98	23.7	0.1					
run2	11/17/2013 11:15:00	13.09	23.2	0.1					
run2	11/17/2013 11:15:15	13.06	23.4	0.2					
run2	11/17/2013 11:15:30	12.98	23.2	0.1					
run2	11/17/2013 11:15:45	12.99	23.2	0.2					
run2	11/17/2013 11:16:00	13.01	23.2	0.2					
run2	11/17/2013 11:16:15	13.03	23.2	0.2					
run2	11/17/2013 11:16:30	13.08	23.5	0.1					
averun2	11/17/2013 10:55:00	12.89	24.5	0.2	21				
scg6	11/17/2013 11:17:15	13.04	23.8	0.2 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 11:17:30	13.07	23.7	0.2 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 11:17:45	13.04	23.5	0.1 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 11:18:00	12.97	23.7	0.2 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 11:18:15	9.87	23.4	0.2 CC277740/cg6	SO2 21.14	0	0	0	

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet				
sn		903034509	1200951382	734726464				
offset		0	0	0				
fullscale		20	100	100				
train		1	1	1				
gastype		co2 3a	nox 7e	so2 6c				
scg6	11/17/2013 11:18:30	2.60	12.5	2.8 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:18:45	0.30	5.5	9.8 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:19:00	0.03	0.7	15.1 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:19:15	0.01	0.5	17.3 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:19:30	0.00	0.4	18.5 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:19:45	0.00	0.3	19.0 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:20:00	0.00	0.3	19.4 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:20:15	-0.01	0.2	19.8 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:20:30	-0.01	0.1	20.1 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:20:45	-0.01	0.1	20.3 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:21:00	-0.01	0.1	20.2 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:21:15	-0.01	0.0	20.5 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:21:30	-0.02	0.0	20.6 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:21:45	-0.02	0.0	20.6 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:22:00	-0.02	0.0	20.6 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:22:15	-0.02	-0.1	20.9 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:22:30	-0.02	0.0	20.8 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:22:45	-0.02	0.0	21.0 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:23:00	-0.02	-0.1	21.0 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:23:15	-0.02	-0.1	21.0 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:23:30	-0.02	-0.1	21.0 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:23:45	-0.02	-0.1	21.1 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:24:00	-0.02	-0.2	21.1 CC277740/cg6	SO2	21.14	0	0 0
scg6	11/17/2013 11:24:15	-0.02	-0.2	21.1 CC277740/cg6	SO2	21.14	0	0 0
so2span1	11/17/2013 11:23:30	-0.02	-0.1	21.0 CC277740/cg6	SO2	21.14	0	0 0
scg12	11/17/2013 11:24:30	-0.02	-0.1	21.3 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:24:45	-0.02	-0.2	21.2 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:25:00	-0.02	-0.2	21.3 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:25:15	-0.02	-0.2	21.3 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:25:30	-0.02	-0.2	21.6 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:25:45	-0.02	7.8	17.9 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:26:00	-0.02	39.3	9.1 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:26:15	-0.02	41.6	5.2 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:26:30	-0.02	42.4	2.8 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:26:45	-0.02	42.8	1.9 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:27:00	-0.02	43.2	1.3 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:27:15	-0.02	43.2	1.0 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg12	11/17/2013 11:27:30	-0.02	43.6	0.9 SG9136781BAL/cg12	NOx	45.94	0	0 0
noxspan1	11/17/2013 11:27:30	-0.02	43.6	0.9 SG9136781BAL/cg12	NOx	45.94	0	0 0
scg4	11/17/2013 11:27:45	-0.03	43.5	0.7 SG9136781BAL/cg4	NOx	45.94	0	0 0
scg3	11/17/2013 11:28:00	-0.02	43.8	0.7 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:28:15	-0.02	44.0	0.6 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:28:30	-0.02	43.8	0.6 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:28:45	-0.03	43.9	0.6 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:29:00	0.35	43.7	1.2 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:29:15	3.32	35.2	1.3 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:29:30	12.93	2.9	0.7 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:29:45	18.92	1.1	0.5 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:30:00	19.11	0.7	0.4 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:30:15	19.11	0.6	0.3 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:30:30	19.08	0.6	0.3 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:30:45	19.08	0.5	0.3 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:31:00	19.09	0.4	0.2 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:31:15	19.11	0.3	0.2 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:31:30	19.12	0.2	0.2 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:31:45	19.12	0.2	0.2 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:32:00	19.14	0.1	0.2 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:32:15	19.14	0.1	0.2 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:32:30	19.15	0.1	0.2 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg3	11/17/2013 11:32:45	19.16	0.0	0.1 CC159366/cg3	O2	20.65 CO2	19.04	0 0
co2span1	11/17/2013 11:32:45	19.16	0.0	0.1 CC159366/cg3	O2	20.65 CO2	19.04	0 0
scg1	11/17/2013 11:33:00	19.17	0.0	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:33:15	19.17	0.0	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:33:30	19.16	0.0	0.2 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:33:45	19.17	0.0	0.2 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:34:00	19.17	0.0	0.2 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:34:15	15.66	-0.1	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:34:30	4.55	-0.1	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:34:45	0.70	-0.2	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:35:00	0.15	-0.2	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:35:15	0.13	-0.2	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
scg1	11/17/2013 11:35:30	0.11	-0.1	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
co2zero1	11/17/2013 11:35:30	0.11	-0.1	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
noxzero1	11/17/2013 11:35:30	0.11	-0.1	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
so2zero1	11/17/2013 11:35:30	0.11	-0.1	0.1 CC288541/cg1	O2	0 CO2	0 NOx	0 SO2 0
run3	11/17/2013 11:37:30	11.92	22.5	2.4				
run3	11/17/2013 11:37:45	12.82	23.4	1.9				
run3	11/17/2013 11:38:00	12.93	23.5	1.4				
run3	11/17/2013 11:38:15	13.07	23.6	1.1				
run3	11/17/2013 11:38:30	13.16	24.0	0.8				
run3	11/17/2013 11:38:45	13.20	24.1	0.8				
run3	11/17/2013 11:39:00	13.23	24.0	0.6				
run3	11/17/2013 11:39:15	13.21	24.0	0.6				
run3	11/17/2013 11:39:30	13.14	24.1	0.5				
run3	11/17/2013 11:39:45	13.06	24.5	0.5				
run3	11/17/2013 11:40:00	13.00	24.6	0.5				
run3	11/17/2013 11:40:15	13.02	24.5	0.4				
run3	11/17/2013 11:40:30	13.09	24.2	0.4				
run3	11/17/2013 11:40:45	13.18	24.1	0.4				
run3	11/17/2013 11:41:00	13.19	24.5	0.4				
run3	11/17/2013 11:41:15	13.13	24.8	0.3				
run3	11/17/2013 11:41:30	13.09	25.1	0.3				
run3	11/17/2013 11:41:45	13.14	24.7	0.3				
run3	11/17/2013 11:42:00	13.28	24.1	0.4				
run3	11/17/2013 11:42:15	13.37	24.3	0.3				
run3	11/17/2013 11:42:30	13.37	24.7	0.3				
run3	11/17/2013 11:42:45	13.29	24.5	0.3				
run3	11/17/2013 11:43:00	13.19	24.5	0.3				
run3	11/17/2013 11:43:15	13.16	24.6	0.3				
run3	11/17/2013 11:43:30	13.15	24.6	0.3				
run3	11/17/2013 11:43:45	13.16	24.8	0.3				

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet							
sn		903034509	1200951382	734726464							
offset		0	0	0							
fullscale		20	100	100							
train		1	1	1							
gastype		co2 3a	nox 7e	so2 6c							
scg3	11/17/2013 12:08:15	3.37	0.0	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg3	11/17/2013 12:08:30	14.92	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg3	11/17/2013 12:08:45	18.79	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg3	11/17/2013 12:09:00	18.97	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
co2span1	11/17/2013 12:09:00	18.97	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg12	11/17/2013 12:09:15	18.97	-0.1	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:09:30	18.98	0.0	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:09:45	19.00	-0.1	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:10:00	19.03	-0.1	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:10:15	19.06	0.0	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:10:30	16.10	0.0	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:10:45	6.36	20.1	0.1	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:11:00	0.73	41.1	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:11:15	0.18	42.0	0.1	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:11:30	0.12	42.6	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:11:45	0.10	42.8	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:12:00	0.06	43.3	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:12:15	0.05	43.4	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 12:12:30	0.04	43.8	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
noxspan1	11/17/2013 12:12:30	0.04	43.8	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg6	11/17/2013 12:12:45	0.04	44.0	0.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:13:00	0.04	44.0	0.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:13:15	0.04	44.0	0.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:13:30	0.03	44.0	0.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:13:45	0.02	44.3	0.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:14:00	0.00	39.9	2.0	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:14:15	0.00	13.2	9.3	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:14:30	0.00	1.4	15.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:14:45	0.00	0.9	17.5	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:15:00	0.00	0.7	19.1	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:15:15	0.00	0.5	19.7	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:15:30	0.00	0.4	20.1	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:15:45	0.00	0.3	20.3	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:16:00	0.00	0.2	20.6	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 12:16:15	-0.01	0.2	20.5	CC277740/cg6	SO2	21.14		0	0	0
so2span1	11/17/2013 12:16:15	-0.01	0.2	20.5	CC277740/cg6	SO2	21.14		0	0	0
run4	11/17/2013 12:19:30	13.33	24.1	1.4							
run4	11/17/2013 12:19:45	13.34	24.1	1.3							
run4	11/17/2013 12:20:00	13.34	24.4	1.2							
run4	11/17/2013 12:20:15	13.28	24.6	1.3							
run4	11/17/2013 12:20:30	13.27	24.8	1.2							
run4	11/17/2013 12:20:45	13.35	24.6	1.1							
run4	11/17/2013 12:21:00	13.37	24.7	1.1							
run4	11/17/2013 12:21:15	13.37	24.9	1.1							
run4	11/17/2013 12:21:30	13.36	24.9	1.0							
run4	11/17/2013 12:21:45	13.32	24.9	1.1							
run4	11/17/2013 12:22:00	13.29	24.8	1.1							
run4	11/17/2013 12:22:15	13.21	24.6	1.0							
run4	11/17/2013 12:22:30	13.06	25.0	1.0							
run4	11/17/2013 12:22:45	13.03	25.1	1.0							
run4	11/17/2013 12:23:00	13.05	25.1	0.9							
run4	11/17/2013 12:23:15	13.09	24.9	0.9							
run4	11/17/2013 12:23:30	13.11	24.7	1.0							
run4	11/17/2013 12:23:45	13.09	25.1	0.9							
run4	11/17/2013 12:24:00	13.00	25.5	0.9							
run4	11/17/2013 12:24:15	12.97	25.4	0.9							
run4	11/17/2013 12:24:30	13.04	25.1	0.9							
run4	11/17/2013 12:24:45	13.09	25.1	0.9							
run4	11/17/2013 12:25:00	13.14	25.1	0.9							
run4	11/17/2013 12:25:15	13.15	25.1	0.9							
run4	11/17/2013 12:25:30	13.12	25.2	0.9							
run4	11/17/2013 12:25:45	13.11	25.4	0.9							
run4	11/17/2013 12:26:00	13.15	25.2	0.8							
run4	11/17/2013 12:26:15	13.22	25.5	0.8							
run4	11/17/2013 12:26:30	13.11	25.7	0.9							
run4	11/17/2013 12:26:45	13.04	25.7	0.8							
run4	11/17/2013 12:27:00	13.12	25.4	0.9							
run4	11/17/2013 12:27:15	13.22	24.7	0.9							
run4	11/17/2013 12:27:30	13.33	24.4	0.8							
run4	11/17/2013 12:27:45	13.34	24.7	0.9							
run4	11/17/2013 12:28:00	13.25	25.2	1.0							
run4	11/17/2013 12:28:15	13.22	25.1	0.9							
run4	11/17/2013 12:28:30	13.19	25.2	1.0							
run4	11/17/2013 12:28:45	13.09	25.0	1.0							
run4	11/17/2013 12:29:00	13.09	24.9	1.0							
run4	11/17/2013 12:29:15	13.19	24.9	0.9							
run4	11/17/2013 12:29:30	13.22	24.8	0.8							
run4	11/17/2013 12:29:45	13.15	24.7	0.8							
run4	11/17/2013 12:30:00	13.13	24.5	0.9							
run4	11/17/2013 12:30:15	13.13	24.6	0.9							
run4	11/17/2013 12:30:30	13.17	25.2	0.9							
run4	11/17/2013 12:30:45	13.21	25.4	0.9							
run4	11/17/2013 12:31:00	13.20	24.9	0.9							
run4	11/17/2013 12:31:15	13.23	24.7	0.9							
run4	11/17/2013 12:31:30	13.31	24.7	0.9							
run4	11/17/2013 12:31:45	13.35	24.8	0.9							
run4	11/17/2013 12:32:00	13.35	25.0	0.9							
run4	11/17/2013 12:32:15	13.29	25.0	0.9							
run4	11/17/2013 12:32:30	13.24	24.8	0.9							
run4	11/17/2013 12:32:45	13.21	24.5	0.8							
run4	11/17/2013 12:33:00	13.17	24.2	0.9							
run4	11/17/2013 12:33:15	13.10	24.1	0.9							
run4	11/17/2013 12:33:30	13.04	24.3	1.0							
run4	11/17/2013 12:33:45	13.11	24.4	0.9							
run4	11/17/2013 12:34:00	13.25	24.0	0.9							
run4	11/17/2013 12:34:15	13.27	23.8	1.0							
run4	11/17/2013 12:34:30	13.23	24.3	0.9							
run4	11/17/2013 12:34:45	13.20	24.2	1.0							
run4	11/17/2013 12:35:00	13.18	24.1	1.0							
run4	11/17/2013 12:35:15	13.14	24.2	0.9							
run4	11/17/2013 12:35:30	13.02	24.5	0.9							

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet					
sn		903034509	1200951382	734726464					
offset		0	0	0					
fullscale		20	100	100					
train		1	1	1					
gastype		co2 3a	nox 7e	so2 6c					
run4	11/17/2013 12:35:45	12.99	24.4	0.9					
run4	11/17/2013 12:36:00	13.09	24.3	1.0					
run4	11/17/2013 12:36:15	13.12	24.4	0.9					
run4	11/17/2013 12:36:30	13.06	24.8	0.9					
run4	11/17/2013 12:36:45	13.06	24.7	0.9					
run4	11/17/2013 12:37:00	13.14	24.7	0.9					
run4	11/17/2013 12:37:15	13.18	24.9	0.9					
run4	11/17/2013 12:37:30	13.18	24.7	0.8					
run4	11/17/2013 12:37:45	13.20	24.5	0.8					
run4	11/17/2013 12:38:00	13.29	24.5	0.8					
run4	11/17/2013 12:38:15	13.38	24.5	0.8					
run4	11/17/2013 12:38:30	13.40	24.9	0.9					
run4	11/17/2013 12:38:45	13.32	25.3	0.9					
run4	11/17/2013 12:39:00	13.19	25.3	0.9					
run4	11/17/2013 12:39:15	13.12	25.3	0.9					
run4	11/17/2013 12:39:30	13.03	25.5	0.9					
run4	11/17/2013 12:39:45	12.93	26.0	0.9					
run4	11/17/2013 12:40:00	12.85	26.2	0.9					
run4	11/17/2013 12:40:15	12.83	26.1	0.9					
run4	11/17/2013 12:40:30	12.89	25.7	0.9					
run4	11/17/2013 12:40:45	13.01	25.3	0.9					
averun4	11/17/2013 12:20:00	13.17	24.9	0.9	21				
scg6	11/17/2013 12:41:00	13.02	26.1	0.9 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:41:15	12.90	26.6	0.9 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:41:30	12.87	26.2	1.0 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:41:45	12.95	26.1	0.9 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:42:00	11.16	25.7	1.6 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:42:15	4.06	14.1	6.1 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:42:30	0.39	5.4	12.5 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:42:45	0.04	0.9	15.9 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:43:00	0.01	0.5	18.3 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:43:15	0.01	0.5	19.1 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:43:30	0.00	0.3	19.7 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:43:45	0.00	0.3	19.9 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:44:00	-0.01	0.2	20.2 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 12:44:15	-0.01	0.1	20.3 CC277740/cg6	SO2 21.14	0	0	0	
so2span1	11/17/2013 12:44:15	-0.01	0.1	20.3 CC277740/cg6	SO2 21.14	0	0	0	
scg12	11/17/2013 12:44:45	-0.01	0.1	20.6 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:45:00	-0.01	0.0	20.6 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:45:15	-0.01	0.0	20.7 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:45:30	0.32	0.1	21.4 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:45:45	1.02	6.6	21.9 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:46:00	0.76	15.5	14.7 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:46:15	0.03	40.2	7.4 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:46:30	-0.02	42.7	3.6 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:46:45	-0.02	43.1	2.3 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:47:00	-0.02	43.5	1.3 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:47:15	-0.02	43.9	0.9 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 12:47:30	-0.02	43.9	0.7 SG9136781BAL/cg12	NOx 45.94	0	0	0	
noxspan1	11/17/2013 12:47:15	-0.02	43.9	0.9 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg3	11/17/2013 12:48:00	-0.02	44.4	0.5 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:48:15	-0.02	44.4	0.5 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:48:30	-0.02	44.5	0.4 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:48:45	-0.02	44.8	0.4 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:49:00	0.26	44.7	0.4 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:49:15	3.37	31.8	0.4 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:49:30	13.98	2.3	0.2 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:49:45	18.95	1.0	0.2 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:50:00	19.06	0.7	0.2 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:50:15	19.06	0.6	0.2 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:50:30	19.06	0.4	0.1 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:50:45	19.09	0.4	0.1 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 12:51:00	19.11	0.3	0.2 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
co2span1	11/17/2013 12:51:00	19.11	0.3	0.2 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg1	11/17/2013 12:51:15	19.10	0.3	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:51:30	19.08	0.2	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:51:45	19.07	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:52:00	19.08	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:52:15	19.08	0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:52:30	15.94	0.0	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:52:45	5.85	0.0	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:53:00	0.57	-0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:53:15	0.18	-0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:53:30	0.13	-0.1	0.0 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:53:45	0.10	0.0	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 12:54:00	0.07	-0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
co2zero1	11/17/2013 12:54:00	0.07	-0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
noxzero1	11/17/2013 12:54:00	0.07	-0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
so2zero1	11/17/2013 12:54:00	0.07	-0.1	0.1 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
run5	11/17/2013 13:05:45	13.16	25.7	0.2					
run5	11/17/2013 13:06:00	13.26	25.7	0.2					
run5	11/17/2013 13:06:15	13.34	25.7	0.2					
run5	11/17/2013 13:06:30	13.45	25.2	0.3					
run5	11/17/2013 13:06:45	13.48	25.2	0.3					
run5	11/17/2013 13:07:00	13.47	25.4	0.2					
run5	11/17/2013 13:07:15	13.41	25.3	0.2					
run5	11/17/2013 13:07:30	13.30	25.2	0.2					
run5	11/17/2013 13:07:45	13.25	25.3	0.2					
run5	11/17/2013 13:08:00	13.26	25.0	0.1					
run5	11/17/2013 13:08:15	13.27	25.0	0.2					
run5	11/17/2013 13:08:30	13.23	25.0	0.2					
run5	11/17/2013 13:08:45	13.22	25.0	0.2					
run5	11/17/2013 13:09:00	13.25	24.8	0.2					
run5	11/17/2013 13:09:15	13.28	24.5	0.2					
run5	11/17/2013 13:09:30	13.23	24.7	0.2					
run5	11/17/2013 13:09:45	13.22	24.6	0.2					
run5	11/17/2013 13:10:00	13.27	24.9	0.2					
run5	11/17/2013 13:10:15	13.33	24.9	0.2					
run5	11/17/2013 13:10:30	13.40	24.5	0.2					
run5	11/17/2013 13:10:45	13.43	24.5	0.2					
run5	11/17/2013 13:11:00	13.39	24.9	0.2					

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet							
sn		903034509	1200951382	734726464							
offset		0	0	0							
fullscale		20	100	100							
train		1	1	1							
gastype		co2 3a	nox 7e	so2 6c							
scg3	11/17/2013 13:36:00	7.14	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg3	11/17/2013 13:36:15	16.98	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg3	11/17/2013 13:36:30	18.93	-0.2	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg3	11/17/2013 13:36:45	18.97	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg3	11/17/2013 13:37:00	19.01	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg3	11/17/2013 13:37:15	19.02	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
co2span1	11/17/2013 13:37:00	19.01	-0.1	0.0	CC159366/cg3	O2	20.65	CO2	19.04	0	0
scg12	11/17/2013 13:37:30	19.05	-0.1	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:37:45	19.06	-0.2	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:38:00	19.09	-0.2	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:38:15	19.13	-0.2	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:38:30	19.00	0.4	0.0	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:38:45	13.30	1.9	0.1	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:39:00	2.64	36.4	0.1	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:39:15	0.37	42.0	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:39:30	0.15	42.8	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:39:45	0.12	43.2	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:40:00	0.09	43.5	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:40:15	0.06	43.9	0.1	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:40:30	0.04	43.9	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:40:45	0.03	44.0	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:41:00	0.02	44.4	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:41:15	0.02	44.4	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg12	11/17/2013 13:41:30	0.01	44.6	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
noxspan1	11/17/2013 13:41:30	0.01	44.6	0.2	SG9136781BAL/cg12	NOx	45.94		0	0	0
scg6	11/17/2013 13:41:45	0.01	44.7	0.1	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:42:00	0.01	44.6	0.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:42:15	0.00	44.6	0.1	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:42:30	0.00	44.9	0.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:42:45	0.00	45.0	0.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:43:00	0.00	44.5	0.9	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:43:15	0.00	21.7	7.0	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:43:30	-0.01	1.8	13.4	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:43:45	-0.01	1.1	16.2	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:44:00	-0.01	0.8	18.4	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:44:15	-0.01	0.8	19.4	CC277740/cg6	SO2	21.14		0	0	0
scg6	11/17/2013 13:44:30	-0.01	0.7	19.9	CC277740/cg6	SO2	21.14		0	0	0
so2span1	11/17/2013 13:44:30	-0.01	0.7	19.9	CC277740/cg6	SO2	21.14		0	0	0
run6i	11/17/2013 13:45:45	-0.01	0.3	20.6							
run6	11/17/2013 13:46:00	1.67	3.5	20.3							
run6	11/17/2013 13:46:15	6.83	16.6	14.0							
run6	11/17/2013 13:46:30	11.97	22.1	7.3							
run6	11/17/2013 13:46:45	12.14	22.3	4.9							
run6	11/17/2013 13:47:00	12.17	22.3	3.7							
run6	11/17/2013 13:47:15	12.24	22.3	3.2							
run6	11/17/2013 13:47:30	12.38	22.1	2.7							
run6	11/17/2013 13:47:45	12.45	22.2	2.3							
run6	11/17/2013 13:48:00	12.46	22.2	2.1							
run6	11/17/2013 13:48:15	12.51	22.4	2.1							
run6	11/17/2013 13:48:30	12.57	22.1	2.1							
run6	11/17/2013 13:48:45	12.60	22.3	2.1							
run6	11/17/2013 13:49:00	12.67	22.8	1.9							
run6	11/17/2013 13:49:15	12.69	22.6	1.9							
run6	11/17/2013 13:49:30	12.66	22.7	1.9							
run6	11/17/2013 13:49:45	12.64	22.5	1.8							
run6	11/17/2013 13:50:00	12.59	22.4	1.9							
run6	11/17/2013 13:50:15	12.54	22.5	1.8							
run6	11/17/2013 13:50:30	12.50	22.5	1.7							
run6	11/17/2013 13:50:45	12.50	22.2	1.8							
run6	11/17/2013 13:51:00	12.50	21.8	1.8							
run6	11/17/2013 13:51:15	12.51	22.2	1.8							
run6	11/17/2013 13:51:30	12.45	22.4	1.8							
run6	11/17/2013 13:51:45	12.37	22.4	1.8							
run6	11/17/2013 13:52:00	12.38	22.0	1.8							
run6	11/17/2013 13:52:15	12.42	22.0	1.8							
run6	11/17/2013 13:52:30	12.47	22.1	1.8							
run6	11/17/2013 13:52:45	12.52	22.0	1.8							
run6	11/17/2013 13:53:00	12.52	21.8	1.8							
run6	11/17/2013 13:53:15	12.51	21.9	1.8							
run6	11/17/2013 13:53:30	12.51	21.9	1.8							
run6	11/17/2013 13:53:45	12.52	22.0	1.8							
run6	11/17/2013 13:54:00	12.51	22.0	1.8							
run6	11/17/2013 13:54:15	12.50	22.2	1.8							
run6	11/17/2013 13:54:30	12.51	22.2	1.8							
run6	11/17/2013 13:54:45	12.45	22.2	1.8							
run6	11/17/2013 13:55:00	12.47	22.3	1.8							
run6	11/17/2013 13:55:15	12.51	22.4	1.8							
run6	11/17/2013 13:55:30	12.41	22.2	1.8							
run6	11/17/2013 13:55:45	12.34	22.6	1.8							
run6	11/17/2013 13:56:00	12.31	22.5	1.8							
run6	11/17/2013 13:56:15	12.29	22.5	1.8							
run6	11/17/2013 13:56:30	12.33	22.3	1.8							
run6	11/17/2013 13:56:45	12.37	22.2	1.9							
run6	11/17/2013 13:57:00	12.41	22.1	2.0							
run6	11/17/2013 13:57:15	12.48	22.3	1.8							
run6	11/17/2013 13:57:30	12.49	22.3	1.9							
run6	11/17/2013 13:57:45	12.48	22.4	1.8							
run6	11/17/2013 13:58:00	12.48	22.7	1.9							
run6	11/17/2013 13:58:15	12.47	22.8	1.9							
run6	11/17/2013 13:58:30	12.46	22.8	1.8							
run6	11/17/2013 13:58:45	12.44	22.9	1.8							
run6	11/17/2013 13:59:00	12.47	23.0	1.8							
run6	11/17/2013 13:59:15	12.45	23.1	1.7							
run6	11/17/2013 13:59:30	12.37	23.2	1.8							
run6	11/17/2013 13:59:45	12.30	23.3	1.8							
run6	11/17/2013 14:00:00	12.28	23.3	1.8							
run6	11/17/2013 14:00:15	12.33	23.1	1.8							
run6	11/17/2013 14:00:30	12.40	23.1	1.8							
run6	11/17/2013 14:00:45	12.45	23.0	1.7							
run6	11/17/2013 14:01:00	12.41	23.4	1.7							
run6	11/17/2013 14:01:15	12.30	23.2	1.7							

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet					
sn		903034509	1200951382	734726464					
offset		0	0	0					
fullscale		20	100	100					
train		1	1	1					
gastype		co2 3a	nox 7e	so2 6c					
run6	11/17/2013 14:01:30	12.30	23.3	1.8					
run6	11/17/2013 14:01:45	12.37	23.2	1.8					
run6	11/17/2013 14:02:00	12.39	23.3	1.7					
run6	11/17/2013 14:02:15	12.45	23.6	1.8					
run6	11/17/2013 14:02:30	12.48	23.4	1.7					
run6	11/17/2013 14:02:45	12.45	23.3	1.7					
run6	11/17/2013 14:03:00	12.43	23.5	1.6					
run6	11/17/2013 14:03:15	12.43	23.6	1.7					
run6	11/17/2013 14:03:30	12.48	23.2	1.7					
run6	11/17/2013 14:03:45	12.52	23.4	1.7					
run6	11/17/2013 14:04:00	12.48	23.3	1.7					
run6	11/17/2013 14:04:15	12.48	23.2	1.8					
run6	11/17/2013 14:04:30	12.44	23.4	1.8					
run6	11/17/2013 14:04:45	12.37	23.3	1.8					
run6	11/17/2013 14:05:00	12.35	23.4	1.8					
run6	11/17/2013 14:05:15	12.32	23.3	1.8					
run6	11/17/2013 14:05:30	12.39	23.2	1.7					
run6	11/17/2013 14:05:45	12.44	23.3	1.7					
run6	11/17/2013 14:06:00	12.46	22.9	1.8					
run6	11/17/2013 14:06:15	12.49	22.9	1.8					
run6	11/17/2013 14:06:30	12.51	23.2	1.8					
run6	11/17/2013 14:06:45	12.51	23.0	1.8					
run6	11/17/2013 14:07:00	12.54	22.6	1.8					
run6	11/17/2013 14:07:15	12.54	22.4	1.8					
run6	11/17/2013 14:07:30	12.55	22.9	1.7					
run6	11/17/2013 14:07:45	12.53	23.1	1.7					
run6	11/17/2013 14:08:00	12.51	23.0	1.7					
run6	11/17/2013 14:08:15	12.53	22.8	1.7					
run6	11/17/2013 14:08:30	12.52	22.6	1.7					
run6	11/17/2013 14:08:45	12.51	23.0	1.7					
run6	11/17/2013 14:09:00	12.48	22.9	1.8					
run6	11/17/2013 14:09:15	12.47	22.8	1.7					
run6	11/17/2013 14:09:30	12.52	22.7	1.7					
run6	11/17/2013 14:09:45	12.52	22.9	1.8					
run6	11/17/2013 14:10:00	12.51	22.6	1.8					
run6	11/17/2013 14:10:15	12.52	22.2	1.8					
run6	11/17/2013 14:10:30	12.54	22.1	1.8					
run6	11/17/2013 14:10:45	12.50	22.3	1.8					
run6	11/17/2013 14:11:00	12.43	22.6	1.8					
run6	11/17/2013 14:11:15	12.37	22.8	1.8					
run6	11/17/2013 14:11:30	12.28	22.7	1.8					
run6	11/17/2013 14:11:45	12.26	22.6	1.8					
run6	11/17/2013 14:12:00	12.34	22.2	1.8					
run6	11/17/2013 14:12:15	12.50	21.7	1.8					
run6	11/17/2013 14:12:30	12.63	21.7	1.8					
run6	11/17/2013 14:12:45	12.62	22.0	1.8					
run6	11/17/2013 14:13:00	12.55	22.2	1.8					
run6	11/17/2013 14:13:15	12.51	22.3	1.8					
run6	11/17/2013 14:13:30	12.51	21.7	1.8					
run6	11/17/2013 14:13:45	12.54	21.8	1.8					
averun6	11/17/2013 13:51:00	12.44	22.7	1.8	21				
scg6	11/17/2013 14:14:15	12.55	21.8	1.8 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:14:30	12.57	22.0	1.8 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:14:45	12.54	21.7	1.8 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:15:00	12.09	21.9	1.9 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:15:15	7.16	18.7	3.7 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:15:30	1.23	17.5	8.8 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:15:45	0.10	2.0	13.7 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:16:00	0.02	0.6	17.0 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:16:15	0.01	0.5	18.2 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:16:30	0.00	0.5	19.1 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:16:45	0.00	0.4	19.5 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:17:00	0.00	0.4	19.9 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:17:15	-0.01	0.3	20.3 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:17:30	-0.01	0.3	20.5 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:17:45	-0.01	0.3	20.5 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:18:00	-0.01	0.2	20.5 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:18:15	-0.01	0.2	20.6 CC277740/cg6	SO2 21.14	0	0	0	
scg6	11/17/2013 14:18:30	-0.01	0.2	20.8 CC277740/cg6	SO2 21.14	0	0	0	
so2span1	11/17/2013 14:18:30	-0.01	0.2	20.8 CC277740/cg6	SO2 21.14	0	0	0	
scg12	11/17/2013 14:18:45	-0.02	0.1	20.8 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:19:00	-0.02	0.1	20.9 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:19:15	-0.02	0.1	20.9 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:19:30	-0.02	0.1	20.9 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:19:45	-0.02	0.1	21.0 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:20:00	-0.02	0.4	20.3 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:20:15	-0.02	22.0	14.3 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:20:30	-0.02	41.7	7.0 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:20:45	-0.03	42.7	3.6 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:21:00	-0.02	43.3	2.2 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:21:15	-0.02	43.5	1.4 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:21:30	-0.02	43.8	1.1 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg12	11/17/2013 14:21:45	-0.02	44.1	0.9 SG9136781BAL/cg12	NOx 45.94	0	0	0	
noxspan1	11/17/2013 14:21:30	-0.02	43.8	1.1 SG9136781BAL/cg12	NOx 45.94	0	0	0	
scg3	11/17/2013 14:22:00	-0.02	44.2	0.7 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:22:15	-0.02	44.3	0.7 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:22:30	-0.02	44.5	0.6 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:22:45	-0.02	44.4	0.6 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:23:00	0.04	44.7	0.5 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:23:15	2.02	40.8	0.4 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:23:30	11.45	4.4	0.4 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:23:45	18.65	1.3	0.3 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:24:00	18.98	0.8	0.3 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:24:15	18.97	0.7	0.3 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg3	11/17/2013 14:24:30	18.96	0.6	0.3 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
co2span1	11/17/2013 14:24:30	18.96	0.6	0.3 CC159366/cg3	O2 20.65 CO2 19.04	0	0	0	
scg1	11/17/2013 14:24:45	18.99	0.5	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 14:25:00	19.01	0.4	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 14:25:15	19.04	0.4	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 14:25:30	19.06	0.3	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				
scg1	11/17/2013 14:25:45	19.07	0.3	0.2 CC288541/cg1	O2 0 CO2 0 NOx 0 SO2 0				

name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet						
sn		903034509	1200951382	734726464						
offset		0	0	0						
fullscale		20	100	100						
train		1	1	1						
gastype		co2 3a	nox 7e	so2 6c						
scg1	11/17/2013 14:26:00	13.14	0.3	0.2	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2	0
scg1	11/17/2013 14:26:15	3.57	0.1	0.2	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2	0
scg1	11/17/2013 14:26:30	0.32	0.1	0.2	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2	0
scg1	11/17/2013 14:26:45	0.14	0.0	0.2	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2	0
co2zero1	11/17/2013 14:26:45	0.14	0.0	0.2	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2	0
noxzero1	11/17/2013 14:26:45	0.14	0.0	0.2	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2	0
so2zero1	11/17/2013 14:26:45	0.14	0.0	0.2	CC288541/cg1	O2	0 CO2	0 NOx	0 SO2	0
run7i	11/17/2013 14:27:15	0.09	0.1	0.2						
run7i	11/17/2013 14:27:30	0.06	0.1	0.1						
run7i	11/17/2013 14:27:45	0.05	0.1	0.2						
run7i	11/17/2013 14:28:00	0.25	0.1	0.3						
run7	11/17/2013 14:28:15	2.43	5.3	1.9						
run7	11/17/2013 14:28:30	9.31	19.7	2.7						
run7	11/17/2013 14:28:45	12.35	21.4	2.1						
run7	11/17/2013 14:29:00	12.57	21.8	1.5						
run7	11/17/2013 14:29:15	12.60	21.9	1.2						
run7	11/17/2013 14:29:30	12.54	22.1	0.8						
run7	11/17/2013 14:29:45	12.51	22.5	0.8						
run7	11/17/2013 14:30:00	12.53	22.2	0.6						
run7	11/17/2013 14:30:15	12.58	21.9	0.6						
run7	11/17/2013 14:30:30	12.58	22.1	0.5						
run7	11/17/2013 14:30:45	12.54	22.3	0.4						
run7	11/17/2013 14:31:00	12.53	22.1	0.4						
run7	11/17/2013 14:31:15	12.63	21.8	0.4						
run7	11/17/2013 14:31:30	12.78	21.6	0.4						
run7	11/17/2013 14:31:45	12.83	21.5	0.4						
run7	11/17/2013 14:32:00	12.77	22.0	0.4						
run7	11/17/2013 14:32:15	12.64	22.2	0.4						
run7	11/17/2013 14:32:30	12.57	21.6	0.4						
run7	11/17/2013 14:32:45	12.63	21.6	0.3						
run7	11/17/2013 14:33:00	12.68	21.6	0.3						
run7	11/17/2013 14:33:15	12.76	21.8	0.3						
run7	11/17/2013 14:33:30	12.84	21.4	0.3						
run7	11/17/2013 14:33:45	12.81	21.5	0.3						
run7	11/17/2013 14:34:00	12.83	21.1	0.3						
run7	11/17/2013 14:34:15	12.83	21.2	0.3						
run7	11/17/2013 14:34:30	12.74	21.6	0.3						
run7	11/17/2013 14:34:45	12.68	21.8	0.3						
run7	11/17/2013 14:35:00	12.69	21.8	0.3						
run7	11/17/2013 14:35:15	12.74	21.6	0.3						
run7	11/17/2013 14:35:30	12.79	21.3	0.3						
run7	11/17/2013 14:35:45	12.81	21.3	0.2						
run7	11/17/2013 14:36:00	12.81	21.3	0.2						
run7	11/17/2013 14:36:15	12.74	21.5	0.3						
run7	11/17/2013 14:36:30	12.63	21.7	0.2						
run7	11/17/2013 14:36:45	12.61	21.7	0.2						
run7	11/17/2013 14:37:00	12.63	21.7	0.3						
run7	11/17/2013 14:37:15	12.60	21.7	0.2						
run7	11/17/2013 14:37:30	12.57	21.6	0.1						
run7	11/17/2013 14:37:45	12.62	21.7	0.2						
run7	11/17/2013 14:38:00	12.63	21.7	0.2						
run7	11/17/2013 14:38:15	12.56	21.8	0.2						
run7	11/17/2013 14:38:30	12.51	22.2	0.2						
run7	11/17/2013 14:38:45	12.48	22.3	0.2						
run7	11/17/2013 14:39:00	12.57	22.5	0.3						
run7	11/17/2013 14:39:15	12.72	22.5	0.3						
run7	11/17/2013 14:39:30	12.84	22.2	0.2						
run7	11/17/2013 14:39:45	12.86	22.6	0.2						
run7	11/17/2013 14:40:00	12.77	23.1	0.2						
run7	11/17/2013 14:40:15	12.66	22.9	0.2						
run7	11/17/2013 14:40:30	12.64	22.9	0.2						
run7	11/17/2013 14:40:45	12.65	22.9	0.2						
run7	11/17/2013 14:41:00	12.63	22.9	0.2						
run7	11/17/2013 14:41:15	12.59	22.9	0.2						
run7	11/17/2013 14:41:30	12.60	23.1	0.2						
run7	11/17/2013 14:41:45	12.63	23.1	0.2						
run7	11/17/2013 14:42:00	12.63	23.0	0.2						
run7	11/17/2013 14:42:15	12.59	23.2	0.2						
run7	11/17/2013 14:42:30	12.53	23.3	0.2						
run7	11/17/2013 14:42:45	12.50	23.4	0.3						
run7	11/17/2013 14:43:00	12.49	23.2	0.3						
run7	11/17/2013 14:43:15	12.50	23.5	0.2						
run7	11/17/2013 14:43:30	12.47	23.4	0.2						
run7	11/17/2013 14:43:45	12.49	23.5	0.2						
run7	11/17/2013 14:44:00	12.60	23.2	0.2						
run7	11/17/2013 14:44:15	12.70	23.1	0.2						
run7	11/17/2013 14:44:30	12.70	23.1	0.2						
run7	11/17/2013 14:44:45	12.62	23.4	0.2						
run7	11/17/2013 14:45:00	12.59	23.5	0.2						
run7	11/17/2013 14:45:15	12.60	23.7	0.2						
run7	11/17/2013 14:45:30	12.55	23.4	0.1						
run7	11/17/2013 14:45:45	12.51	23.2	0.2						
run7	11/17/2013 14:46:00	12.53	23.0	0.2						
run7	11/17/2013 14:46:15	12.47	23.0	0.2						
run7	11/17/2013 14:46:30	12.39	23.3	0.2						
run7	11/17/2013 14:46:45	12.45	23.0	0.2						
run7	11/17/2013 14:47:00	12.56	22.7	0.2						
run7	11/17/2013 14:47:15	12.59	23.3	0.2						
run7	11/17/2013 14:47:30	12.64	23.0	0.2						
run7	11/17/2013 14:47:45	12.71	22.7	0.1						
run7	11/17/2013 14:48:00	12.74	22.8	0.2						
run7	11/17/2013 14:48:15	12.69	22.8	0.2						
run7	11/17/2013 14:48:30	12.64	22.8	0.2						
run7	11/17/2013 14:48:45	12.63	22.9	0.2						
run7	11/17/2013 14:49:00	12.66	23.0	0.2						
run7	11/17/2013 14:49:15	12.70	23.0	0.2						
run7	11/17/2013 14:49:30	12.70	23.0	0.2						
run7	11/17/2013 14:49:45	12.68	23.0	0.2						
run7	11/17/2013 14:50:00	12.75	22.7	0.2						
run7	11/17/2013 14:50:15	12.86	22.3	0.2						
run7	11/17/2013 14:50:30	12.89	22.4	0.2						

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name		U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet						
sn		903034509	1200951382	734726464						
offset		0	0	0						
fullscale		20	100	100						
train		1	1	1						
gastype		co2 3a	nox 7e	so2 6c						
run8	11/17/2013 15:14:30	12.36	22.4	1.9						
run8	11/17/2013 15:14:45	12.39	22.4	1.8						
run8	11/17/2013 15:15:00	12.45	22.4	1.7						
run8	11/17/2013 15:15:15	12.55	22.5	1.8						
run8	11/17/2013 15:15:30	12.66	22.6	1.7						
run8	11/17/2013 15:15:45	12.59	22.7	1.8						
run8	11/17/2013 15:16:00	12.49	23.0	1.8						
run8	11/17/2013 15:16:15	12.54	22.6	1.7						
run8	11/17/2013 15:16:30	12.63	22.3	1.8						
run8	11/17/2013 15:16:45	12.67	22.3	1.7						
run8	11/17/2013 15:17:00	12.64	22.5	1.8						
run8	11/17/2013 15:17:15	12.63	22.6	1.7						
run8	11/17/2013 15:17:30	12.68	22.3	1.7						
run8	11/17/2013 15:17:45	12.66	22.3	1.7						
run8	11/17/2013 15:18:00	12.52	23.0	1.7						
run8	11/17/2013 15:18:15	12.44	23.0	1.7						
run8	11/17/2013 15:18:30	12.42	22.8	1.8						
run8	11/17/2013 15:18:45	12.46	22.5	1.7						
run8	11/17/2013 15:19:00	12.53	22.7	1.7						
run8	11/17/2013 15:19:15	12.54	22.8	1.6						
run8	11/17/2013 15:19:30	12.51	22.9	1.7						
run8	11/17/2013 15:19:45	12.50	22.6	1.6						
run8	11/17/2013 15:20:00	12.51	22.8	1.6						
run8	11/17/2013 15:20:15	12.51	23.0	1.7						
run8	11/17/2013 15:20:30	12.56	22.7	1.6						
run8	11/17/2013 15:20:45	12.67	22.6	1.7						
run8	11/17/2013 15:21:00	12.71	22.5	1.7						
run8	11/17/2013 15:21:15	12.68	22.6	1.7						
run8	11/17/2013 15:21:30	12.61	22.9	1.6						
run8	11/17/2013 15:21:45	12.54	23.0	1.7						
run8	11/17/2013 15:22:00	12.54	23.0	1.7						
run8	11/17/2013 15:22:15	12.53	22.9	1.6						
run8	11/17/2013 15:22:30	12.49	22.8	1.7						
run8	11/17/2013 15:22:45	12.45	22.8	1.7						
run8	11/17/2013 15:23:00	12.40	22.8	1.6						
run8	11/17/2013 15:23:15	12.43	22.6	1.6						
run8	11/17/2013 15:23:30	12.60	22.1	1.6						
run8	11/17/2013 15:23:45	12.65	22.2	1.6						
run8	11/17/2013 15:24:00	12.59	22.4	1.6						
run8	11/17/2013 15:24:15	12.54	22.5	1.6						
run8	11/17/2013 15:24:30	12.57	22.2	1.6						
run8	11/17/2013 15:24:45	12.69	22.0	1.6						
run8	11/17/2013 15:25:00	12.80	22.0	1.6						
run8	11/17/2013 15:25:15	12.84	22.1	1.6						
run8	11/17/2013 15:25:30	12.78	22.3	1.6						
run8	11/17/2013 15:25:45	12.67	22.4	1.6						
run8	11/17/2013 15:26:00	12.63	21.9	1.7						
run8	11/17/2013 15:26:15	12.62	21.9	1.6						
run8	11/17/2013 15:26:30	12.59	22.7	1.7						
run8	11/17/2013 15:26:45	12.58	22.6	1.6						
run8	11/17/2013 15:27:00	12.61	22.4	1.7						
run8	11/17/2013 15:27:15	12.65	22.1	1.6						
run8	11/17/2013 15:27:30	12.66	22.2	1.6						
run8	11/17/2013 15:27:45	12.63	22.4	1.7						
run8	11/17/2013 15:28:00	12.52	22.5	1.7						
run8	11/17/2013 15:28:15	12.45	22.2	1.7						
run8	11/17/2013 15:28:30	12.46	22.2	1.6						
run8	11/17/2013 15:28:45	12.43	22.4	1.6						
run8	11/17/2013 15:29:00	12.34	22.5	1.7						
run8	11/17/2013 15:29:15	12.36	22.5	1.7						
run8	11/17/2013 15:29:30	12.41	22.2	1.7						
run8	11/17/2013 15:29:45	12.39	22.4	1.7						
run8	11/17/2013 15:30:00	12.36	22.6	1.6						
run8	11/17/2013 15:30:15	12.38	22.5	1.7						
run8	11/17/2013 15:30:30	12.53	22.2	1.6						
run8	11/17/2013 15:30:45	12.65	22.3	1.6						
run8	11/17/2013 15:31:00	12.63	22.7	1.5						
run8	11/17/2013 15:31:15	12.63	22.9	1.5						
run8	11/17/2013 15:31:30	12.62	22.8	1.6						
run8	11/17/2013 15:31:45	12.53	23.0	1.6						
run8	11/17/2013 15:32:00	12.49	23.3	1.6						
run8	11/17/2013 15:32:15	12.54	23.2	1.5						
run8	11/17/2013 15:32:30	12.52	23.4	1.6						
run8	11/17/2013 15:32:45	12.46	23.7	1.6						
run8	11/17/2013 15:33:00	12.43	23.6	1.6						
run8	11/17/2013 15:33:15	12.43	23.5	1.6						
run8	11/17/2013 15:33:30	12.47	23.4	1.6						
run8	11/17/2013 15:33:45	12.54	23.4	1.6						
run8	11/17/2013 15:34:00	12.55	23.2	1.6						
run8	11/17/2013 15:34:15	12.60	23.1	1.5						
averun8	11/17/2013 15:11:00	12.55	22.4	1.7	21					
scg6	11/17/2013 15:34:30	12.67	23.3	1.7	CC277740/cg6	SO2	21.14	0	0	0
scg12	11/17/2013 15:34:45	12.72	23.6	1.7	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:35:00	12.74	23.7	1.5	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:35:15	12.68	23.7	1.5	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:35:30	11.41	23.6	1.9	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:35:45	5.31	17.3	4.9	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:36:00	0.69	12.6	11.0	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:36:15	0.05	1.3	15.1	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:36:30	0.01	0.6	17.6	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:36:45	0.01	0.5	18.6	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:37:00	0.00	0.4	19.4	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:37:15	0.00	0.4	19.9	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:37:30	0.00	0.3	20.0	CC277740/cg6	SO2	21.14	0	0	0
scg6	11/17/2013 15:37:45	-0.01	0.3	20.1	CC277740/cg6	SO2	21.14	0	0	0
so2span1	11/17/2013 15:37:45	-0.01	0.3	20.1	CC277740/cg6	SO2	21.14	0	0	0
scg12	11/17/2013 15:38:00	-0.01	0.2	20.3	SG9136781BAL/cg12	NOx	45.94	0	0	0
scg12	11/17/2013 15:38:15	-0.01	0.2	20.5	SG9136781BAL/cg12	NOx	45.94	0	0	0
scg12	11/17/2013 15:38:30	-0.02	0.2	20.5	SG9136781BAL/cg12	NOx	45.94	0	0	0
scg12	11/17/2013 15:38:45	-0.02	0.2	20.7	SG9136781BAL/cg12	NOx	45.94	0	0	0
scg12	11/17/2013 15:39:00	-0.02	0.2	20.7	SG9136781BAL/cg12	NOx	45.94	0	0	0

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RM Raw Data Wet System
Page 20 of 21

name	U1 CO2 Wet	U1 NOx Wet	U1 SO2 Wet
sn	903034509	1200951382	734726464
offset	0	0	0
fullscale	20	100	100
train	1	1	1
gastype	co2 3a	nox 7e	so2 6c
cospan			
so2ezero	Parameter Not Found		
so2mid	Parameter Not Found		
so2high	Parameter Not Found		
noxezero	Parameter Not Found		
noxlow	Parameter Not Found		
noxmid	Parameter Not Found		
noxhigh	Parameter Not Found		
co2ezero	Parameter Not Found		
co2mid	Parameter Not Found		
co2high	Parameter Not Found		
o2ezero	Parameter Not Found		
o2mid	Parameter Not Found		
o2high	Parameter Not Found		
thcezero	Parameter Not Found		
thclow	Parameter Not Found		
thcmid	Parameter Not Found		
thchigh	Parameter Not Found		
coezero	Parameter Not Found		
colow	Parameter Not Found		
comid	Parameter Not Found		
cohig	Parameter Not Found		
End			

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	-0.02 %	0.04 %	0.01
10.03 percent O ₂	9.91 %	9.90 %	9.90
0.00 percent CO ₂	0.12 %	-0.02 %	0.05
9.62 percent CO ₂	9.70 %	9.46 %	9.58
0.0 ppm CO	0.1 ppm	-0.1 ppm	-0.01
46.0 ppm CO	45.5 ppm	45.4 ppm	45.45
Mean Reference Values:	Corrected Results:	Basis:	
3.10 percent O ₂	3.10 percent O ₂	DRY	
17.12 percent CO ₂	17.20 percent CO ₂	DRY	
67.5 ppm CO	68.2 ppm CO	DRY	

Emission Calculations:
0.0540 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.04 %	0.07 %	0.05
10.03 percent O ₂	9.90 %	9.93 %	9.92
0.00 percent CO ₂	-0.02 %	0.23 %	0.11
9.62 percent CO ₂	9.46 %	9.61 %	9.54
0.0 ppm CO	-0.1 ppm	-0.1 ppm	-0.10
46.0 ppm CO	45.4 ppm	45.5 ppm	45.44
Mean Reference Values:	Corrected Results:	Basis:	
3.13 percent O ₂	3.10 percent O ₂	DRY	
17.11 percent CO ₂	17.40 percent CO ₂	DRY	
69.6 ppm CO	70.4 ppm CO	DRY	

Emission Calculations:
0.0560 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.07 %	-0.01 %	0.03
10.03 percent O ₂	9.93 %	9.89 %	9.91
0.00 percent CO ₂	0.23 %	0.02 %	0.13
9.62 percent CO ₂	9.61 %	9.57 %	9.59
0.0 ppm CO	-0.1 ppm	-0.1 ppm	-0.10
46.0 ppm CO	45.5 ppm	45.5 ppm	45.50
Mean Reference Values:	Corrected Results:	Basis:	
3.15 percent O ₂	3.20 percent O ₂	DRY	
17.05 percent CO ₂	17.20 percent CO ₂	DRY	
63.4 ppm CO	64.0 ppm CO	DRY	

Emission Calculations:
0.0510 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 4

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	-0.01 %	0.04 %	0.01
10.03 percent O ₂	9.89 %	9.97 %	9.93
0.00 percent CO ₂	0.02 %	-0.02 %	0.00
9.62 percent CO ₂	9.57 %	9.53 %	9.55
0.0 ppm CO	-0.1 ppm	-0.1 ppm	-0.10
46.0 ppm CO	45.5 ppm	45.5 ppm	45.52
Mean Reference Values:	Corrected Results:	Basis:	
3.17 percent O ₂	3.20 percent O ₂	DRY	
17.02 percent CO ₂	17.20 percent CO ₂	DRY	
67.4 ppm CO	68.0 ppm CO	DRY	

Emission Calculations:
0.0540 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 5

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.04 %	0.08 %	0.06
10.03 percent O ₂	9.97 %	9.96 %	9.97
0.00 percent CO ₂	-0.02 %	0.04 %	0.01
9.62 percent CO ₂	9.53 %	9.53 %	9.53
0.0 ppm CO	-0.1 ppm	-0.1 ppm	-0.10
46.0 ppm CO	45.5 ppm	45.2 ppm	45.37
Mean Reference Values:	Corrected Results:	Basis:	
3.20 percent O ₂	3.20 percent O ₂	DRY	
16.98 percent CO ₂	17.20 percent CO ₂	DRY	
63.5 ppm CO	64.3 ppm CO	DRY	

Emission Calculations:
0.0510 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 6

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.08 %	0.00 %	0.04
10.03 percent O ₂	9.96 %	9.89 %	9.93
0.00 percent CO ₂	0.04 %	-0.02 %	0.01
9.62 percent CO ₂	9.53 %	Not Measured	9.53
0.0 ppm CO	-0.1 ppm	-0.1 ppm	-0.10
46.0 ppm CO	45.2 ppm	45.3 ppm	45.28
Mean Reference Values:	Corrected Results:	Basis:	
3.18 percent O ₂	3.20 percent O ₂	DRY	
17.04 percent CO ₂	17.20 percent CO ₂	DRY	
62.1 ppm CO	63.0 ppm CO	DRY	

Emission Calculations:
0.0500 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 7

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.00 %	0.05 %	0.03
10.03 percent O ₂	9.89 %	9.95 %	9.92
0.00 percent CO ₂	-0.02 %	-0.02 %	-0.02
9.62 percent CO ₂	9.52 %	9.52 %	9.52
0.0 ppm CO	-0.1 ppm	-0.1 ppm	-0.10
46.0 ppm CO	45.3 ppm	45.3 ppm	45.32
Mean Reference Values:	Corrected Results:	Basis:	
3.17 percent O ₂	3.20 percent O ₂	DRY	
17.00 percent CO ₂	17.20 percent CO ₂	DRY	
64.3 ppm CO	65.1 ppm CO	DRY	

Emission Calculations:
0.0520 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 8

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.05 %	0.01 %	0.03
10.03 percent O ₂	9.95 %	9.96 %	9.95
0.00 percent CO ₂	-0.02 %	0.02 %	0.00
9.62 percent CO ₂	9.52 %	9.54 %	9.53
0.0 ppm CO	-0.1 ppm	0.0 ppm	-0.05
46.0 ppm CO	45.3 ppm	45.3 ppm	45.31
Mean Reference Values:	Corrected Results:	Basis:	
3.22 percent O ₂	3.20 percent O ₂	DRY	
16.99 percent CO ₂	17.20 percent CO ₂	DRY	
63.1 ppm CO	64.0 ppm CO	DRY	

Emission Calculations:
0.0510 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 9

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.01 %	0.02 %	0.02
10.03 percent O ₂	9.96 %	9.88 %	9.92
0.00 percent CO ₂	0.02 %	0.00 %	0.01
9.62 percent CO ₂	9.54 %	9.51 %	9.53
0.0 ppm CO	0.0 ppm	-0.1 ppm	-0.05
46.0 ppm CO	45.3 ppm	45.5 ppm	45.38
Mean Reference Values:	Corrected Results:	Basis:	
3.21 percent O ₂	3.20 percent O ₂	DRY	
17.02 percent CO ₂	17.20 percent CO ₂	DRY	
60.0 ppm CO	60.8 ppm CO	DRY	

Emission Calculations:
0.0480 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
Unit 1
High Load RATA
Date:11/17/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 10

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.02 %	0.02 %	0.02
10.03 percent O ₂	9.88 %	9.93 %	9.91
0.00 percent CO ₂	0.00 %	0.00 %	0.00
9.62 percent CO ₂	9.51 %	9.54 %	9.52
0.0 ppm CO	-0.1 ppm	-0.1 ppm	-0.10
46.0 ppm CO	45.5 ppm	45.3 ppm	45.39
Mean Reference Values:	Corrected Results:	Basis:	
3.17 percent O ₂	3.20 percent O ₂	DRY	
17.05 percent CO ₂	17.20 percent CO ₂	DRY	
68.3 ppm CO	69.1 ppm CO	DRY	

Emission Calculations:
0.0550 CO Lbs/mmBtu from O₂

Fuel Factors:

9240 dscf/mmBtu

[illegible]

name	O2		CO2		CO						
sn	1009241630		1009241630		48C-68846-361						
offset	0		0		0						
fullscale	100		20		200						
train	1		1		1						
gastype	o2 3a		co2 3a		co 10						
scg7	11/17/2013	9:05:45	9.92	9.69	-0.3	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	9:06:00	9.78	9.70	-0.3	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	9:06:15	2.18	8.71	3.5	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	9:06:30	0.09	2.62	22.7	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	9:06:45	0.04	0.66	38.1	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	9:07:00	0.02	0.25	44.3	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	9:07:15	0.02	0.20	45.2	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	9:07:30	0.03	0.19	45.5	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	9:07:45	0.03	0.16	45.5	CC334442/cg7	CO	45.96	0	0	0
cospan1	11/17/2013	9:07:45	0.03	0.16	45.5	CC334442/cg7	CO	45.96	0	0	0
run1	11/17/2013	9:46:30	3.52	16.76	34.6						
run1	11/17/2013	9:46:45	3.67	16.71	30.3						
run1	11/17/2013	9:47:00	3.64	16.61	29.0						
run1	11/17/2013	9:47:15	3.46	16.65	32.7						
run1	11/17/2013	9:47:30	3.20	16.80	41.7						
run1	11/17/2013	9:47:45	3.02	17.00	50.0						
run1	11/17/2013	9:48:00	3.16	17.18	55.1						
run1	11/17/2013	9:48:15	3.26	17.10	50.5						
run1	11/17/2013	9:48:30	3.29	16.99	44.4						
run1	11/17/2013	9:48:45	3.13	16.99	43.1						
run1	11/17/2013	9:49:00	3.15	17.04	47.4						
run1	11/17/2013	9:49:15	3.27	17.07	51.1						
run1	11/17/2013	9:49:30	3.29	16.99	52.9						
run1	11/17/2013	9:49:45	3.19	16.99	53.8						
run1	11/17/2013	9:50:00	3.23	17.03	51.7						
run1	11/17/2013	9:50:15	3.31	16.98	51.7						
run1	11/17/2013	9:50:30	3.44	16.91	50.8						
run1	11/17/2013	9:50:45	3.41	16.85	45.0						
run1	11/17/2013	9:51:00	3.46	16.84	36.7						
run1	11/17/2013	9:51:15	3.51	16.73	31.8						
run1	11/17/2013	9:51:30	3.24	16.76	32.7						
run1	11/17/2013	9:51:45	3.20	16.95	40.1						
run1	11/17/2013	9:52:00	3.21	17.05	46.5						
run1	11/17/2013	9:52:15	3.19	17.05	46.8						
run1	11/17/2013	9:52:30	3.19	17.02	47.8						
run1	11/17/2013	9:52:45	3.19	17.02	50.4						
run1	11/17/2013	9:53:00	3.26	17.02	54.8						
run1	11/17/2013	9:53:15	3.24	16.97	56.1						
run1	11/17/2013	9:53:30	3.01	17.07	55.6						
run1	11/17/2013	9:53:45	3.12	17.15	62.0						
run1	11/17/2013	9:54:00	3.10	17.09	64.4						
run1	11/17/2013	9:54:15	2.95	17.19	71.2						
run1	11/17/2013	9:54:30	2.95	17.30	80.1						
run1	11/17/2013	9:54:45	2.87	17.33	81.4						
run1	11/17/2013	9:55:00	2.85	17.34	77.5						
run1	11/17/2013	9:55:15	2.81	17.39	73.3						
run1	11/17/2013	9:55:30	2.83	17.48	75.8						
run1	11/17/2013	9:55:45	3.11	17.39	71.4						
run1	11/17/2013	9:56:00	3.29	17.09	56.2						
run1	11/17/2013	9:56:15	3.18	16.95	47.9						
run1	11/17/2013	9:56:30	3.12	17.03	50.7						
run1	11/17/2013	9:56:45	3.06	17.12	58.9						
run1	11/17/2013	9:57:00	3.03	17.19	66.9						
run1	11/17/2013	9:57:15	3.02	17.19	68.4						
run1	11/17/2013	9:57:30	3.00	17.20	72.9						
run1	11/17/2013	9:57:45	3.11	17.21	79.9						
run1	11/17/2013	9:58:00	3.35	17.10	73.9						
run1	11/17/2013	9:58:15	3.33	16.95	59.8						
run1	11/17/2013	9:58:30	3.15	16.95	49.4						
run1	11/17/2013	9:58:45	3.18	16.99	47.0						
run1	11/17/2013	9:59:00	3.18	17.03	47.6						
run1	11/17/2013	9:59:15	3.20	17.07	50.7						
run1	11/17/2013	9:59:30	3.30	17.05	51.9						
run1	11/17/2013	9:59:45	3.23	16.96	47.2						
run1	11/17/2013	10:00:00	3.22	16.96	42.6						
run1	11/17/2013	10:00:15	3.03	17.04	46.0						
run1	11/17/2013	10:00:30	3.04	17.21	59.2						
run1	11/17/2013	10:00:45	3.00	17.26	67.9						
run1	11/17/2013	10:01:00	2.98	17.24	66.7						
run1	11/17/2013	10:01:15	2.97	17.20	66.3						
run1	11/17/2013	10:01:30	2.96	17.30	74.1						
run1	11/17/2013	10:01:45	3.01	17.34	75.5						
run1	11/17/2013	10:02:00	3.17	17.26	67.7						
run1	11/17/2013	10:02:15	3.33	17.06	58.6						
run1	11/17/2013	10:02:30	3.24	16.93	52.4						
run1	11/17/2013	10:02:45	3.17	17.01	57.0						
run1	11/17/2013	10:03:00	3.11	17.12	64.2						
run1	11/17/2013	10:03:15	3.15	17.13	65.2						
run1	11/17/2013	10:03:30	3.32	17.02	59.3						
run1	11/17/2013	10:03:45	3.24	16.94	53.3						
run1	11/17/2013	10:04:00	3.35	17.02	56.4						
run1	11/17/2013	10:04:15	3.54	16.91	54.9						
run1	11/17/2013	10:04:30	3.49	16.77	44.8						
run1	11/17/2013	10:04:45	3.38	16.74	39.6						
run1	11/17/2013	10:05:00	3.37	16.84	40.1						
run1	11/17/2013	10:05:15	3.40	16.91	40.5						
run1	11/17/2013	10:05:30	3.46	16.86	36.0						
run1	11/17/2013	10:05:45	3.28	16.85	33.3						
run1	11/17/2013	10:06:00	3.27	16.93	39.8						
run1	11/17/2013	10:06:15	3.21	16.98	47.6						
run1	11/17/2013	10:06:30	3.24	17.05	56.3						
run1	11/17/2013	10:06:45	3.22	17.07	65.6						
run1	11/17/2013	10:07:00	3.20	17.02	69.0						
run1	11/17/2013	10:07:15	3.14	17.04	70.1						
run1	11/17/2013	10:07:30	3.28	17.09	68.5						
run1	11/17/2013	10:07:45	3.31	17.05	68.2						
run1	11/17/2013	10:08:00	3.45	16.95	70.0						
run1	11/17/2013	10:08:15	3.48	16.81	60.1						

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run1	11/17/2013	10:08:30	3.52	16.76	44.4	
run1	11/17/2013	10:08:45	3.54	16.76	35.3	
run1	11/17/2013	10:09:00	3.36	16.76	33.9	
run1	11/17/2013	10:09:15	3.11	16.92	45.7	
run1	11/17/2013	10:09:30	2.98	17.12	63.3	
run1	11/17/2013	10:09:45	2.88	17.29	74.5	
run1	11/17/2013	10:10:00	2.99	17.41	77.8	
run1	11/17/2013	10:10:15	3.13	17.30	71.1	
run1	11/17/2013	10:10:30	2.97	17.16	62.1	
run1	11/17/2013	10:10:45	2.80	17.28	63.9	
run1	11/17/2013	10:11:00	2.86	17.44	77.9	
run1	11/17/2013	10:11:15	2.89	17.45	81.3	
run1	11/17/2013	10:11:30	2.98	17.42	73.9	
run1	11/17/2013	10:11:45	3.07	17.28	66.4	
run1	11/17/2013	10:12:00	3.09	17.17	61.9	
run1	11/17/2013	10:12:15	3.06	17.18	63.4	
run1	11/17/2013	10:12:30	2.99	17.25	66.3	
run1	11/17/2013	10:12:45	2.85	17.32	71.3	
run1	11/17/2013	10:13:00	2.90	17.38	81.2	
run1	11/17/2013	10:13:15	2.98	17.35	87.6	
run1	11/17/2013	10:13:30	2.95	17.34	97.4	
run1	11/17/2013	10:13:45	3.05	17.33	99.1	
run1	11/17/2013	10:14:00	3.03	17.24	90.0	
run1	11/17/2013	10:14:15	3.04	17.19	86.1	
run1	11/17/2013	10:14:30	3.13	17.24	83.1	
run1	11/17/2013	10:14:45	3.12	17.19	74.9	
run1	11/17/2013	10:15:00	3.11	17.16	67.2	
run1	11/17/2013	10:15:15	3.12	17.12	64.3	
run1	11/17/2013	10:15:30	3.19	17.12	61.2	
run1	11/17/2013	10:15:45	3.11	17.11	54.1	
run1	11/17/2013	10:16:00	3.16	17.14	51.0	
run1	11/17/2013	10:16:15	3.24	17.09	57.5	
run1	11/17/2013	10:16:30	3.30	16.97	60.2	
run1	11/17/2013	10:16:45	3.17	16.92	54.2	
run1	11/17/2013	10:17:00	3.13	17.06	50.6	
run1	11/17/2013	10:17:15	3.13	17.13	50.4	
run1	11/17/2013	10:17:30	3.03	17.11	53.6	
run1	11/17/2013	10:17:45	2.88	17.18	62.5	
run1	11/17/2013	10:18:00	2.88	17.40	77.1	
run1	11/17/2013	10:18:15	3.16	17.36	89.7	
run1	11/17/2013	10:18:30	3.10	17.12	82.0	
run1	11/17/2013	10:18:45	3.00	17.12	74.4	
run1	11/17/2013	10:19:00	3.09	17.20	79.8	
run1	11/17/2013	10:19:15	3.13	17.18	85.8	
run1	11/17/2013	10:19:30	3.07	17.13	85.1	
run1	11/17/2013	10:19:45	3.05	17.11	80.9	
run1	11/17/2013	10:20:00	3.13	17.14	82.1	
run1	11/17/2013	10:20:15	3.35	17.10	78.2	
run1	11/17/2013	10:20:30	3.52	16.93	64.4	
run1	11/17/2013	10:20:45	3.47	16.74	51.4	
run1	11/17/2013	10:21:00	3.27	16.75	46.5	
run1	11/17/2013	10:21:15	3.18	16.94	50.1	
run1	11/17/2013	10:21:30	3.11	17.05	56.0	
run1	11/17/2013	10:21:45	3.16	17.11	60.2	
run1	11/17/2013	10:22:00	3.20	17.07	56.6	
run1	11/17/2013	10:22:15	3.15	16.98	55.0	
run1	11/17/2013	10:22:30	3.02	17.10	67.2	
run1	11/17/2013	10:22:45	3.21	17.20	75.6	
run1	11/17/2013	10:23:00	3.22	17.08	70.3	
run1	11/17/2013	10:23:15	3.00	17.03	63.6	
run1	11/17/2013	10:23:30	3.06	17.14	59.8	
run1	11/17/2013	10:23:45	3.07	17.17	55.3	
run1	11/17/2013	10:24:00	3.14	17.16	52.7	
run1	11/17/2013	10:24:15	3.09	17.10	55.3	
run1	11/17/2013	10:24:30	2.95	17.16	65.0	
run1	11/17/2013	10:24:45	2.97	17.22	79.8	
run1	11/17/2013	10:25:00	3.09	17.22	81.6	
run1	11/17/2013	10:25:15	3.16	17.14	74.7	
run1	11/17/2013	10:25:30	3.16	17.09	77.0	
run1	11/17/2013	10:25:45	3.14	17.06	81.0	
run1	11/17/2013	10:26:00	3.25	17.03	73.8	
run1	11/17/2013	10:26:15	3.40	16.96	57.2	
run1	11/17/2013	10:26:30	3.40	16.85	42.5	
run1	11/17/2013	10:26:45	3.32	16.84	39.8	
run1	11/17/2013	10:27:00	3.30	16.86	49.3	
run1	11/17/2013	10:27:15	3.05	16.90	56.9	
run1	11/17/2013	10:27:30	2.92	17.16	69.0	
run1	11/17/2013	10:27:45	2.94	17.29	91.8	
run1	11/17/2013	10:28:00	2.86	17.30	103.7	
run1	11/17/2013	10:28:15	2.79	17.35	112.2	
run1	11/17/2013	10:28:30	2.88	17.40	114.1	
run1	11/17/2013	10:28:45	3.25	17.29	93.0	
run1	11/17/2013	10:29:00	3.31	17.00	64.7	
run1	11/17/2013	10:29:15	3.16	16.92	46.0	
run1	11/17/2013	10:29:30	3.06	17.00	47.4	
run1	11/17/2013	10:29:45	3.04	17.10	61.9	
run1	11/17/2013	10:30:00	3.17	17.14	74.6	
run1	11/17/2013	10:30:15	3.21	17.06	72.6	
run1	11/17/2013	10:30:30	3.13	17.04	66.4	
run1	11/17/2013	10:30:45	3.18	17.00	63.9	
run1	11/17/2013	10:31:00	3.17	16.99	58.7	
run1	11/17/2013	10:31:15	3.13	17.01	47.8	
run1	11/17/2013	10:31:30	2.84	17.14	48.9	
run1	11/17/2013	10:31:45	2.77	17.37	64.1	
run1	11/17/2013	10:32:00	2.73	17.41	72.7	
run1	11/17/2013	10:32:15	2.90	17.40	73.3	
run1	11/17/2013	10:32:30	3.07	17.31	64.9	
run1	11/17/2013	10:32:45	3.01	17.20	55.3	

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run1	11/17/2013	10:33:00	2.94	17.20	56.4	
run1	11/17/2013	10:33:15	2.93	17.23	62.1	
run1	11/17/2013	10:33:30	2.93	17.27	66.7	
run1	11/17/2013	10:33:45	3.03	17.31	69.7	
run1	11/17/2013	10:34:00	3.07	17.22	73.4	
run1	11/17/2013	10:34:15	3.03	17.18	77.2	
run1	11/17/2013	10:34:30	3.09	17.13	74.9	
run1	11/17/2013	10:34:45	3.11	17.07	66.8	
run1	11/17/2013	10:35:00	2.99	17.11	63.2	
run1	11/17/2013	10:35:15	2.90	17.21	78.5	
run1	11/17/2013	10:35:30	2.86	17.34	98.3	
run1	11/17/2013	10:35:45	2.93	17.35	105.6	
run1	11/17/2013	10:36:00	2.99	17.26	99.6	
run1	11/17/2013	10:36:15	3.04	17.23	98.7	
run1	11/17/2013	10:36:30	3.12	17.18	98.1	
averun1	11/17/2013	10:14:00	3.10	17.12	67.5	
scg7	11/17/2013	10:36:45	3.14	17.10	85.9	21
scg7	11/17/2013	10:37:00	3.13	17.03	74.2	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:37:15	3.15	17.07	68.7	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:37:30	2.83	15.11	63.1	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:37:45	0.20	6.53	52.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:38:00	0.04	0.99	46.7	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:38:15	0.06	0.21	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:38:30	0.04	0.09	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:38:45	0.03	0.06	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:39:00	0.03	0.05	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:39:15	0.03	0.03	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:39:30	0.02	0.02	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	10:39:45	0.02	0.02	45.4	CC334442/cg7 CO 45.96 0 0 0
cospan1	11/17/2013	10:39:45	0.02	0.02	45.4	CC334442/cg7 CO 45.96 0 0 0
scg6	11/17/2013	10:40:00	0.06	0.01	45.5	CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/17/2013	10:40:15	0.02	0.00	45.3	CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg1	11/17/2013	10:40:45	-0.03	-0.02	45.5	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:41:00	6.06	0.26	45.2	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:41:15	19.34	6.05	32.7	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:41:30	13.84	14.65	15.8	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:41:45	1.63	11.86	8.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:42:00	0.13	3.00	3.7	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:42:15	0.05	0.47	1.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:42:30	0.02	0.10	0.2	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:42:45	0.06	0.04	0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:43:00	0.03	0.02	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:43:15	0.00	0.01	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:43:30	0.02	0.00	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:43:45	0.04	0.00	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:44:00	0.02	0.00	0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:44:15	0.03	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:44:30	0.02	-0.01	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:44:45	0.03	-0.01	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	10:45:00	0.04	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
cozero1	11/17/2013	10:45:00	0.04	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/17/2013	10:45:00	0.04	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/17/2013	10:45:00	0.04	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg5	11/17/2013	10:45:15	0.02	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	10:45:30	0.04	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	10:45:45	-0.08	-0.03	0.0	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	10:46:00	0.12	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	10:46:15	7.33	0.67	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	10:46:30	9.80	6.14	-0.2	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	10:46:45	9.91	8.64	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	10:47:00	9.91	9.35	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	10:47:15	9.90	9.46	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
co2span1	11/17/2013	10:47:15	9.90	9.46	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2span1	11/17/2013	10:47:15	9.90	9.46	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
run2l	11/17/2013	10:47:45	9.90	9.50	-0.5	
run2l	11/17/2013	10:48:00	9.93	9.53	-0.5	
run2l	11/17/2013	10:48:15	9.14	9.55	0.0	
run2l	11/17/2013	10:48:30	3.78	11.62	8.7	
run2	11/17/2013	10:48:45	3.20	15.41	33.9	
run2	11/17/2013	10:49:00	3.25	16.77	48.5	
run2	11/17/2013	10:49:15	3.20	16.95	50.7	
run2	11/17/2013	10:49:30	2.99	17.07	54.3	
run2	11/17/2013	10:49:45	2.78	17.19	81.5	
run2	11/17/2013	10:50:00	3.00	17.35	110.3	
run2	11/17/2013	10:50:15	3.21	17.22	101.8	
run2	11/17/2013	10:50:30	3.25	17.06	72.8	
run2	11/17/2013	10:50:45	3.17	17.01	61.1	
run2	11/17/2013	10:51:00	3.17	17.03	65.8	
run2	11/17/2013	10:51:15	3.14	17.03	66.6	
run2	11/17/2013	10:51:30	3.25	17.08	64.0	
run2	11/17/2013	10:51:45	3.29	17.04	61.2	
run2	11/17/2013	10:52:00	3.17	16.99	66.2	
run2	11/17/2013	10:52:15	3.26	16.99	79.0	
run2	11/17/2013	10:52:30	3.26	16.97	76.3	
run2	11/17/2013	10:52:45	3.32	17.01	60.0	
run2	11/17/2013	10:53:00	3.27	16.97	51.1	
run2	11/17/2013	10:53:15	3.05	17.00	52.9	
run2	11/17/2013	10:53:30	3.10	17.14	63.7	
run2	11/17/2013	10:53:45	3.04	17.17	72.9	
run2	11/17/2013	10:54:00	3.19	17.20	74.0	
run2	11/17/2013	10:54:15	3.09	17.08	66.2	
run2	11/17/2013	10:54:30	3.00	17.15	61.4	
run2	11/17/2013	10:54:45	3.10	17.23	60.5	
run2	11/17/2013	10:55:00	3.12	17.19	57.6	
run2	11/17/2013	10:55:15	3.14	17.11	54.7	
run2	11/17/2013	10:55:30	3.30	17.01	53.6	
run2	11/17/2013	10:55:45	3.38	16.95	54.6	
run2	11/17/2013	10:56:00	3.22	16.95	58.1	

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run2	11/17/2013	10:56:15	3.02	17.10	73.4	
run2	11/17/2013	10:56:30	2.96	17.24	89.0	
run2	11/17/2013	10:56:45	2.98	17.26	95.2	
run2	11/17/2013	10:57:00	2.87	17.30	93.1	
run2	11/17/2013	10:57:15	2.78	17.42	92.9	
run2	11/17/2013	10:57:30	2.87	17.49	92.8	
run2	11/17/2013	10:57:45	3.01	17.39	85.8	
run2	11/17/2013	10:58:00	3.14	17.19	73.9	
run2	11/17/2013	10:58:15	3.24	17.12	62.6	
run2	11/17/2013	10:58:30	3.23	17.06	59.2	
run2	11/17/2013	10:58:45	3.17	17.06	57.3	
run2	11/17/2013	10:59:00	3.12	17.06	55.1	
run2	11/17/2013	10:59:15	3.23	17.05	55.9	
run2	11/17/2013	10:59:30	3.28	17.02	56.1	
run2	11/17/2013	10:59:45	3.27	17.01	57.6	
run2	11/17/2013	11:00:00	3.22	17.01	62.7	
run2	11/17/2013	11:00:15	3.17	17.00	68.0	
run2	11/17/2013	11:00:30	3.14	17.04	66.6	
run2	11/17/2013	11:00:45	3.14	17.08	65.6	
run2	11/17/2013	11:01:00	2.98	17.15	68.7	
run2	11/17/2013	11:01:15	2.90	17.29	79.5	
run2	11/17/2013	11:01:30	3.00	17.30	92.7	
run2	11/17/2013	11:01:45	3.09	17.27	102.4	
run2	11/17/2013	11:02:00	3.20	17.17	99.4	
run2	11/17/2013	11:02:15	3.05	17.14	80.6	
run2	11/17/2013	11:02:30	2.89	17.23	74.4	
run2	11/17/2013	11:02:45	3.01	17.32	90.6	
run2	11/17/2013	11:03:00	3.05	17.26	94.9	
run2	11/17/2013	11:03:15	3.02	17.22	89.7	
run2	11/17/2013	11:03:30	3.01	17.24	93.6	
run2	11/17/2013	11:03:45	3.07	17.22	91.7	
run2	11/17/2013	11:04:00	3.23	17.13	81.2	
run2	11/17/2013	11:04:15	3.11	17.07	72.5	
run2	11/17/2013	11:04:30	2.98	17.16	73.8	
run2	11/17/2013	11:04:45	3.17	17.18	76.0	
run2	11/17/2013	11:05:00	3.17	17.06	71.1	
run2	11/17/2013	11:05:15	3.11	17.08	71.0	
run2	11/17/2013	11:05:30	3.16	17.15	72.4	
run2	11/17/2013	11:05:45	3.27	17.08	65.4	
run2	11/17/2013	11:06:00	3.48	16.89	58.0	
run2	11/17/2013	11:06:15	3.51	16.75	51.3	
run2	11/17/2013	11:06:30	3.50	16.74	48.4	
run2	11/17/2013	11:06:45	3.45	16.77	49.9	
run2	11/17/2013	11:07:00	3.33	16.77	56.3	
run2	11/17/2013	11:07:15	3.22	16.87	61.2	
run2	11/17/2013	11:07:30	3.38	16.98	61.4	
run2	11/17/2013	11:07:45	3.57	16.86	52.0	
run2	11/17/2013	11:08:00	3.48	16.72	43.9	
run2	11/17/2013	11:08:15	3.36	16.72	41.5	
run2	11/17/2013	11:08:30	3.29	16.86	44.0	
run2	11/17/2013	11:08:45	3.28	16.93	49.2	
run2	11/17/2013	11:09:00	3.12	17.01	55.6	
run2	11/17/2013	11:09:15	3.30	17.04	64.0	
run2	11/17/2013	11:09:30	3.30	16.91	62.7	
run2	11/17/2013	11:09:45	3.07	16.95	61.7	
run2	11/17/2013	11:10:00	2.94	17.17	75.2	
run2	11/17/2013	11:10:15	2.96	17.30	88.2	
run2	11/17/2013	11:10:30	3.04	17.24	81.8	
run2	11/17/2013	11:10:45	3.14	17.13	67.1	
run2	11/17/2013	11:11:00	3.08	17.08	59.3	
run2	11/17/2013	11:11:15	3.10	17.15	57.3	
run2	11/17/2013	11:11:30	3.21	17.10	54.1	
run2	11/17/2013	11:11:45	3.12	16.99	48.9	
run2	11/17/2013	11:12:00	3.10	17.05	51.5	
run2	11/17/2013	11:12:15	3.03	17.11	57.3	
run2	11/17/2013	11:12:30	2.98	17.23	61.4	
run2	11/17/2013	11:12:45	3.04	17.24	63.3	
run2	11/17/2013	11:13:00	2.97	17.15	62.0	
run2	11/17/2013	11:13:15	3.03	17.18	78.5	
run2	11/17/2013	11:13:30	3.01	17.21	93.8	
run2	11/17/2013	11:13:45	2.99	17.22	89.3	
run2	11/17/2013	11:14:00	3.03	17.25	78.9	
run2	11/17/2013	11:14:15	3.14	17.12	65.9	
run2	11/17/2013	11:14:30	2.96	17.10	55.0	
run2	11/17/2013	11:14:45	2.88	17.25	59.0	
run2	11/17/2013	11:15:00	2.94	17.36	74.3	
run2	11/17/2013	11:15:15	3.03	17.28	86.6	
run2	11/17/2013	11:15:30	2.98	17.17	94.5	
run2	11/17/2013	11:15:45	2.95	17.20	101.3	
run2	11/17/2013	11:16:00	2.89	17.27	95.7	
run2	11/17/2013	11:16:15	2.83	17.35	96.4	
run2	11/17/2013	11:16:30	2.98	17.37	100.3	
run2	11/17/2013	11:16:45	2.96	17.23	89.0	
run2	11/17/2013	11:17:00	2.94	17.22	80.1	
run2	11/17/2013	11:17:15	2.88	17.29	77.6	
run2	11/17/2013	11:17:30	2.81	17.37	84.0	
run2	11/17/2013	11:17:45	3.03	17.38	95.2	
run2	11/17/2013	11:18:00	2.95	17.19	92.1	
run2	11/17/2013	11:18:15	2.77	17.26	93.5	
run2	11/17/2013	11:18:30	2.86	17.40	103.5	
run2	11/17/2013	11:18:45	2.84	17.37	102.3	
run2	11/17/2013	11:19:00	2.84	17.38	98.8	
run2	11/17/2013	11:19:15	3.01	17.30	104.0	
run2	11/17/2013	11:19:30	2.95	17.20	100.0	
run2	11/17/2013	11:19:45	3.06	17.23	89.9	
run2	11/17/2013	11:20:00	3.31	17.10	78.7	
run2	11/17/2013	11:20:15	3.23	16.93	61.5	
averun2	11/17/2013	10:55:00	3.13	17.11	69.6	

RM Data Dry System
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name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run3	11/17/2013	11:43:45	3.08	17.13	74.5	
run3	11/17/2013	11:44:00	3.08	17.15	78.8	
run3	11/17/2013	11:44:15	3.07	17.16	85.2	
run3	11/17/2013	11:44:30	3.21	17.06	81.4	
run3	11/17/2013	11:44:45	3.16	16.98	70.9	
run3	11/17/2013	11:45:00	3.13	17.04	69.5	
run3	11/17/2013	11:45:15	3.26	17.07	71.3	
run3	11/17/2013	11:45:30	3.45	16.93	64.2	
run3	11/17/2013	11:45:45	3.52	16.73	51.7	
run3	11/17/2013	11:46:00	3.45	16.65	47.3	
run3	11/17/2013	11:46:15	3.26	16.76	50.1	
run3	11/17/2013	11:46:30	3.29	16.95	56.8	
run3	11/17/2013	11:46:45	3.31	16.90	58.8	
run3	11/17/2013	11:47:00	3.17	16.88	55.3	
run3	11/17/2013	11:47:15	3.19	16.98	58.6	
run3	11/17/2013	11:47:30	3.26	17.02	58.3	
run3	11/17/2013	11:47:45	3.14	17.00	53.0	
run3	11/17/2013	11:48:00	3.10	17.05	57.9	
run3	11/17/2013	11:48:15	3.11	17.07	66.5	
run3	11/17/2013	11:48:30	3.19	17.10	68.0	
run3	11/17/2013	11:48:45	3.24	17.04	62.7	
run3	11/17/2013	11:49:00	3.17	17.01	57.3	
run3	11/17/2013	11:49:15	3.15	17.02	53.2	
run3	11/17/2013	11:49:30	3.13	17.05	50.2	
run3	11/17/2013	11:49:45	3.20	17.07	46.8	
run3	11/17/2013	11:50:00	3.20	17.02	50.9	
run3	11/17/2013	11:50:15	3.21	17.01	60.8	
run3	11/17/2013	11:50:30	3.20	16.96	58.6	
run3	11/17/2013	11:50:45	3.28	16.97	49.8	
run3	11/17/2013	11:51:00	3.27	16.96	45.3	
run3	11/17/2013	11:51:15	3.41	16.98	47.8	
run3	11/17/2013	11:51:30	3.49	16.77	47.2	
run3	11/17/2013	11:51:45	3.32	16.71	47.1	
run3	11/17/2013	11:52:00	3.16	16.93	51.5	
run3	11/17/2013	11:52:15	3.21	17.06	60.0	
run3	11/17/2013	11:52:30	3.43	16.95	60.7	
run3	11/17/2013	11:52:45	3.41	16.77	53.9	
run3	11/17/2013	11:53:00	3.42	16.79	49.8	
run3	11/17/2013	11:53:15	3.42	16.80	46.6	
run3	11/17/2013	11:53:30	3.32	16.81	44.1	
run3	11/17/2013	11:53:45	3.15	16.87	47.8	
run3	11/17/2013	11:54:00	3.02	17.04	53.9	
run3	11/17/2013	11:54:15	2.98	17.21	59.2	
run3	11/17/2013	11:54:30	2.95	17.31	67.0	
run3	11/17/2013	11:54:45	3.03	17.30	72.2	
run3	11/17/2013	11:55:00	3.12	17.14	70.5	
run3	11/17/2013	11:55:15	3.10	17.09	62.3	
run3	11/17/2013	11:55:30	2.98	17.15	56.0	
run3	11/17/2013	11:55:45	3.11	17.24	59.4	
run3	11/17/2013	11:56:00	3.20	17.07	61.2	
run3	11/17/2013	11:56:15	3.06	17.01	55.1	
run3	11/17/2013	11:56:30	3.09	17.14	50.3	
run3	11/17/2013	11:56:45	3.23	17.12	51.4	
run3	11/17/2013	11:57:00	3.22	17.04	50.6	
run3	11/17/2013	11:57:15	3.17	16.97	50.2	
run3	11/17/2013	11:57:30	3.27	16.99	50.1	
run3	11/17/2013	11:57:45	3.24	16.97	48.7	
run3	11/17/2013	11:58:00	3.16	16.98	51.0	
run3	11/17/2013	11:58:15	3.17	16.98	57.1	
run3	11/17/2013	11:58:30	3.20	16.98	56.8	
run3	11/17/2013	11:58:45	3.26	16.98	48.4	
run3	11/17/2013	11:59:00	3.08	17.02	42.4	
run3	11/17/2013	11:59:15	2.98	17.15	49.1	
run3	11/17/2013	11:59:30	2.94	17.23	64.0	
run3	11/17/2013	11:59:45	2.97	17.26	74.9	
run3	11/17/2013	12:00:00	2.98	17.29	82.5	
run3	11/17/2013	12:00:15	2.95	17.25	91.0	
run3	11/17/2013	12:00:30	2.92	17.23	93.0	
run3	11/17/2013	12:00:45	3.07	17.27	87.2	
run3	11/17/2013	12:01:00	3.22	17.16	75.0	
run3	11/17/2013	12:01:15	3.32	17.03	61.3	
run3	11/17/2013	12:01:30	3.47	16.83	48.6	
run3	11/17/2013	12:01:45	3.49	16.69	36.8	
run3	11/17/2013	12:02:00	3.35	16.74	31.0	
run3	11/17/2013	12:02:15	3.27	16.86	34.1	
run3	11/17/2013	12:02:30	3.28	16.95	42.6	
run3	11/17/2013	12:02:45	3.21	16.92	47.8	
run3	11/17/2013	12:03:00	3.17	16.95	49.8	
run3	11/17/2013	12:03:15	3.18	17.03	54.2	
run3	11/17/2013	12:03:30	3.31	17.01	55.5	
run3	11/17/2013	12:03:45	3.45	16.92	48.5	
run3	11/17/2013	12:04:00	3.47	16.75	40.1	
averun3	11/17/2013	11:40:00	3.15	17.05	63.4	21
scg7	11/17/2013	12:04:15	3.33	16.73	37.6	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:04:30	3.16	16.93	44.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:04:45	3.16	17.04	55.8	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:05:00	2.52	16.54	63.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:05:15	0.28	9.69	61.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:05:30	-0.01	1.86	52.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:05:45	-0.01	0.30	47.0	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:06:00	-0.05	0.09	45.6	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:06:15	-0.02	0.05	45.5	CC334442/cg7 CO 45.96 0 0 0
cospan1	11/17/2013	12:06:15	-0.02	0.05	45.5	CC334442/cg7 CO 45.96 0 0 0
scg5	11/17/2013	12:06:30	-0.05	0.03	45.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:06:45	-0.04	0.02	45.6	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:07:00	-0.02	0.01	45.6	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:07:15	2.36	0.00	45.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:07:30	10.48	3.32	36.7	CC427756/cg5 O2 10.03 CO2 9.624 0 0

name	O2		CO2		CO							
sn	1009241630		1009241630		48C-68846-361							
offset	0		0		0							
fullscale	100		20		200							
train	1		1		1							
gastype	o2 3a		co2 3a		co 10							
scg5	11/17/2013	12:07:45	9.81	8.28	17.6	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	12:08:00	9.85	9.24	4.2	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	12:08:15	9.86	9.46	0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	12:08:30	9.85	9.52	-0.1	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	12:08:45	9.87	9.52	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	12:09:00	9.88	9.55	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	12:09:15	9.85	9.57	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	12:09:30	9.89	9.58	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	12:09:45	9.90	9.56	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
co2span1	11/17/2013	12:09:15	9.85	9.57	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
o2span1	11/17/2013	12:09:30	9.89	9.58	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg1	11/17/2013	12:10:00	9.79	9.55	-0.3	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:10:15	9.90	9.58	-0.3	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:10:30	9.90	9.59	-0.3	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:10:45	8.96	9.57	-0.3	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:11:00	0.95	7.15	-0.3	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:11:15	0.04	2.05	-0.3	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:11:30	0.04	0.26	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:11:45	-0.02	0.10	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:12:00	0.01	0.05	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:12:15	-0.02	0.03	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:12:30	0.00	0.02	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:12:45	-0.02	0.02	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:13:00	-0.01	0.00	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
scg1	11/17/2013	12:13:15	-0.02	0.00	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
cozero1	11/17/2013	12:13:00	-0.01	0.00	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
co2zero1	11/17/2013	12:12:45	-0.02	0.02	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
o2zero1	11/17/2013	12:13:00	-0.01	0.00	-0.1	CC281765/cg1	CO	0	0	CO2	0	02
run4l	11/17/2013	12:13:45	-0.02	0.00	-0.1							
run4l	11/17/2013	12:14:00	-0.02	-0.01	-0.1							
run4l	11/17/2013	12:14:15	1.22	0.08	0.9							
run4	11/17/2013	12:14:30	3.14	7.74	19.5							
run4	11/17/2013	12:14:45	3.13	14.80	43.9							
run4	11/17/2013	12:15:00	3.13	16.55	53.7							
run4	11/17/2013	12:15:15	3.22	16.84	48.1							
run4	11/17/2013	12:15:30	3.12	16.85	45.3							
run4	11/17/2013	12:15:45	3.12	16.90	51.8							
run4	11/17/2013	12:16:00	3.34	16.94	57.6							
run4	11/17/2013	12:16:15	3.41	16.82	55.1							
run4	11/17/2013	12:16:30	3.28	16.77	48.0							
run4	11/17/2013	12:16:45	3.27	16.84	46.7							
run4	11/17/2013	12:17:00	3.23	16.82	50.7							
run4	11/17/2013	12:17:15	3.10	16.90	54.6							
run4	11/17/2013	12:17:30	3.07	17.03	55.1							
run4	11/17/2013	12:17:45	2.94	17.10	55.0							
run4	11/17/2013	12:18:00	2.88	17.19	66.0							
run4	11/17/2013	12:18:15	2.85	17.28	76.4							
run4	11/17/2013	12:18:30	2.84	17.32	79.9							
run4	11/17/2013	12:18:45	2.85	17.34	87.3							
run4	11/17/2013	12:19:00	2.94	17.28	94.3							
run4	11/17/2013	12:19:15	2.84	17.22	93.5							
run4	11/17/2013	12:19:30	2.84	17.30	99.9							
run4	11/17/2013	12:19:45	2.83	17.36	107.2							
run4	11/17/2013	12:20:00	2.96	17.30	106.0							
run4	11/17/2013	12:20:15	2.96	17.17	100.6							
run4	11/17/2013	12:20:30	2.86	17.18	101.2							
run4	11/17/2013	12:20:45	2.84	17.29	112.5							
run4	11/17/2013	12:21:00	2.90	17.32	116.5							
run4	11/17/2013	12:21:15	2.87	17.30	113.6							
run4	11/17/2013	12:21:30	2.91	17.28	114.9							
run4	11/17/2013	12:21:45	2.93	17.22	106.7							
run4	11/17/2013	12:22:00	3.06	17.22	94.0							
run4	11/17/2013	12:22:15	3.31	17.10	81.8							
run4	11/17/2013	12:22:30	3.40	16.85	66.7							
run4	11/17/2013	12:22:45	3.38	16.70	60.8							
run4	11/17/2013	12:23:00	3.23	16.77	66.7							
run4	11/17/2013	12:23:15	3.17	16.91	75.2							
run4	11/17/2013	12:23:30	3.29	16.98	79.5							
run4	11/17/2013	12:23:45	3.48	16.84	71.7							
run4	11/17/2013	12:24:00	3.45	16.65	58.1							
run4	11/17/2013	12:24:15	3.30	16.70	54.2							
run4	11/17/2013	12:24:30	3.19	16.87	62.2							
run4	11/17/2013	12:24:45	3.18	16.94	71.0							
run4	11/17/2013	12:25:00	3.08	16.95	77.6							
run4	11/17/2013	12:25:15	3.29	17.00	77.4							
run4	11/17/2013	12:25:30	3.31	16.90	65.0							
run4	11/17/2013	12:25:45	3.20	16.87	49.0							
run4	11/17/2013	12:26:00	3.08	16.96	43.1							
run4	11/17/2013	12:26:15	3.26	17.01	48.0							
run4	11/17/2013	12:26:30	3.38	16.88	51.7							
run4	11/17/2013	12:26:45	3.22	16.85	54.1							
run4	11/17/2013	12:27:00	3.00	16.98	64.6							
run4	11/17/2013	12:27:15	2.89	17.14	79.9							
run4	11/17/2013	12:27:30	2.92	17.21	93.7							
run4	11/17/2013	12:27:45	3.13	17.22	92.6							
run4	11/17/2013	12:28:00	3.09	17.09	74.6							
run4	11/17/2013	12:28:15	3.07	17.11	60.9							
run4	11/17/2013	12:28:30	3.23	17.07	54.8							
run4	11/17/2013	12:28:45	3.24	16.90	52.3							
run4	11/17/2013	12:29:00	3.14	16.95	48.9							
run4	11/17/2013	12:29:15	3.16	17.03	49.4							
run4	11/17/2013	12:29:30	3.25	17.03	54.4							
run4	11/17/2013	12:29:45	3.24	16.95	54.5							
run4	11/17/2013	12:30:00	3.23	16.89	50.9							
run4	11/17/2013	12:30:15	3.19	16.94	46.2							
run4	11/17/2013	12:30:30	3.16	17.00	39.6							
run4	11/17/2013	12:30:45	3.12	17.08	38.5							
run4	11/17/2013	12:31:00	2.93	17.12	50.1							

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run4	11/17/2013	12:31:15	2.88	17.22	71.0	
run4	11/17/2013	12:31:30	2.85	17.28	87.4	
run4	11/17/2013	12:31:45	2.82	17.36	86.4	
run4	11/17/2013	12:32:00	3.01	17.36	75.0	
run4	11/17/2013	12:32:15	3.10	17.20	64.0	
run4	11/17/2013	12:32:30	3.22	17.05	58.0	
run4	11/17/2013	12:32:45	3.14	17.03	56.0	
run4	11/17/2013	12:33:00	3.20	17.08	54.6	
run4	11/17/2013	12:33:15	3.35	17.01	52.0	
run4	11/17/2013	12:33:30	3.20	16.88	48.5	
run4	11/17/2013	12:33:45	2.95	17.00	54.5	
run4	11/17/2013	12:34:00	2.97	17.25	77.9	
run4	11/17/2013	12:34:15	3.09	17.26	88.1	
run4	11/17/2013	12:34:30	3.14	17.17	75.6	
run4	11/17/2013	12:34:45	3.13	17.06	59.9	
run4	11/17/2013	12:35:00	3.15	17.07	59.7	
run4	11/17/2013	12:35:15	3.37	17.03	63.0	
run4	11/17/2013	12:35:30	3.40	16.86	52.4	
run4	11/17/2013	12:35:45	3.19	16.86	45.9	
run4	11/17/2013	12:36:00	3.22	16.97	57.9	
run4	11/17/2013	12:36:15	3.36	16.93	61.5	
run4	11/17/2013	12:36:30	3.22	16.90	54.6	
run4	11/17/2013	12:36:45	3.18	17.00	54.1	
run4	11/17/2013	12:37:00	3.22	17.02	53.3	
run4	11/17/2013	12:37:15	3.21	16.95	53.2	
run4	11/17/2013	12:37:30	3.18	16.97	58.8	
run4	11/17/2013	12:37:45	3.00	17.07	67.7	
run4	11/17/2013	12:38:00	2.87	17.26	82.0	
run4	11/17/2013	12:38:15	2.83	17.38	91.7	
run4	11/17/2013	12:38:30	2.99	17.34	92.7	
run4	11/17/2013	12:38:45	3.20	17.20	86.8	
run4	11/17/2013	12:39:00	3.23	17.04	79.2	
run4	11/17/2013	12:39:15	3.42	16.96	74.9	
run4	11/17/2013	12:39:30	3.57	16.79	65.1	
run4	11/17/2013	12:39:45	3.72	16.61	49.1	
run4	11/17/2013	12:40:00	3.79	16.49	36.1	
run4	11/17/2013	12:40:15	3.58	16.50	32.8	
run4	11/17/2013	12:40:30	3.33	16.68	41.2	
run4	11/17/2013	12:40:45	3.41	16.82	50.8	
run4	11/17/2013	12:41:00	3.68	16.70	52.1	
run4	11/17/2013	12:41:15	3.63	16.57	47.6	
averun4	11/17/2013	12:20:00	3.17	17.02	67.4	21
scg1	11/17/2013	12:41:30	3.44	16.65	43.9	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:41:45	3.46	16.77	46.4	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:42:00	3.53	16.70	44.8	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:42:15	2.50	16.46	37.9	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:42:30	0.24	7.71	23.4	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:42:45	0.04	1.54	10.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:43:00	0.04	0.24	2.4	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:43:15	0.05	0.09	0.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:43:30	0.03	0.05	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:43:45	0.05	0.04	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:44:00	0.01	0.03	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:44:15	0.02	0.01	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:44:30	0.03	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:44:45	0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:45:00	0.03	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:45:15	0.03	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:45:30	0.02	-0.01	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:45:45	0.02	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:46:00	0.04	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	12:46:15	0.00	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
cozero1	11/17/2013	12:46:00	0.04	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/17/2013	12:46:00	0.04	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/17/2013	12:46:00	0.04	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg5	11/17/2013	12:46:30	0.03	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:46:45	0.02	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:47:00	0.02	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:47:15	1.69	-0.03	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:47:30	9.24	2.71	-0.2	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:47:45	9.87	7.69	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:48:00	9.88	9.13	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:48:15	9.88	9.38	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:48:30	9.93	9.47	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:48:45	9.91	9.50	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:49:00	9.92	9.51	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:49:15	9.93	9.50	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:49:30	9.91	9.51	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:49:45	9.93	9.52	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:50:00	9.91	9.54	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:50:15	9.92	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:50:30	9.96	9.51	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:50:45	9.97	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:51:00	9.93	9.55	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:51:15	9.92	9.56	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:51:30	9.97	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	12:51:45	9.96	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
co2span1	11/17/2013	12:51:30	9.97	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2span1	11/17/2013	12:51:30	9.97	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg7	11/17/2013	12:52:00	9.93	9.55	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:52:15	9.92	9.56	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:52:30	9.98	9.55	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:52:45	9.06	9.52	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:53:00	0.99	7.36	7.1	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:53:15	0.10	2.00	25.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:53:30	0.09	0.28	40.6	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:53:45	0.05	0.08	44.6	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	12:54:00	0.04	0.03	45.1	CC334442/cg7 CO 45.96 0 0 0

name	O2			CO2			CO					
sn	1009241630			1009241630			48C-68846-361					
offset	0			0			0					
fullscale	100			20			200					
train	1			1			1					
gastype	o2 3a			co2 3a			co 10					
scg7	11/17/2013	12:54:15	0.05	0.02	0.00	45.3	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	12:54:30	0.03	0.00	0.00	45.4	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	12:54:45	0.05	0.00	0.00	45.4	CC334442/cg7	CO	45.96	0	0	0
scg7	11/17/2013	12:55:00	0.02	-0.01	45.5	CC334442/cg7	CO	45.96	0	0	0	0
scg7	11/17/2013	12:55:15	0.02	-0.02	45.4	CC334442/cg7	CO	45.96	0	0	0	0
cospan1	11/17/2013	12:55:00	0.02	-0.01	45.5	CC334442/cg7	CO	45.96	0	0	0	0
run5l	11/17/2013	12:56:15	1.08	0.04	45.8							
run5	11/17/2013	12:56:30	3.11	7.71	55.4							
run5	11/17/2013	12:56:45	3.20	14.79	65.2							
run5	11/17/2013	12:57:00	3.13	16.51	74.1							
run5	11/17/2013	12:57:15	2.90	16.91	81.9							
run5	11/17/2013	12:57:30	2.71	17.18	100.9							
run5	11/17/2013	12:57:45	2.69	17.38	116.4							
run5	11/17/2013	12:58:00	2.86	17.46	119.5							
run5	11/17/2013	12:58:15	2.89	17.36	108.7							
run5	11/17/2013	12:58:30	2.96	17.28	97.0							
run5	11/17/2013	12:58:45	3.05	17.18	88.6							
run5	11/17/2013	12:59:00	3.08	17.14	82.0							
run5	11/17/2013	12:59:15	3.29	17.09	79.5							
run5	11/17/2013	12:59:30	3.38	16.89	66.9							
run5	11/17/2013	12:59:45	3.21	16.83	56.6							
run5	11/17/2013	13:00:00	3.08	16.95	58.1							
run5	11/17/2013	13:00:15	3.30	17.02	69.3							
run5	11/17/2013	13:00:30	3.37	16.91	72.0							
run5	11/17/2013	13:00:45	3.28	16.83	67.8							
run5	11/17/2013	13:01:00	3.20	16.90	69.0							
run5	11/17/2013	13:01:15	3.12	16.95	69.1							
run5	11/17/2013	13:01:30	3.13	17.03	71.9							
run5	11/17/2013	13:01:45	3.33	17.04	76.2							
run5	11/17/2013	13:02:00	3.46	16.90	73.0							
run5	11/17/2013	13:02:15	3.44	16.76	67.0							
run5	11/17/2013	13:02:30	3.49	16.70	60.0							
run5	11/17/2013	13:02:45	3.50	16.70	53.4							
run5	11/17/2013	13:03:00	3.51	16.71	45.0							
run5	11/17/2013	13:03:15	3.42	16.73	38.6							
run5	11/17/2013	13:03:30	3.44	16.74	34.1							
run5	11/17/2013	13:03:45	3.49	16.72	36.4							
run5	11/17/2013	13:04:00	3.58	16.72	42.8							
run5	11/17/2013	13:04:15	3.54	16.67	44.6							
run5	11/17/2013	13:04:30	3.54	16.66	42.2							
run5	11/17/2013	13:04:45	3.63	16.59	37.2							
run5	11/17/2013	13:05:00	3.47	16.61	33.0							
run5	11/17/2013	13:05:15	3.45	16.72	39.5							
run5	11/17/2013	13:05:30	3.32	16.79	43.9							
run5	11/17/2013	13:05:45	3.21	16.86	43.4							
run5	11/17/2013	13:06:00	3.02	16.98	47.9							
run5	11/17/2013	13:06:15	2.95	17.16	58.9							
run5	11/17/2013	13:06:30	2.84	17.30	79.5							
run5	11/17/2013	13:06:45	2.77	17.39	101.0							
run5	11/17/2013	13:07:00	2.95	17.34	116.8							
run5	11/17/2013	13:07:15	3.10	17.22	117.4							
run5	11/17/2013	13:07:30	3.18	17.13	103.2							
run5	11/17/2013	13:07:45	3.13	17.05	88.2							
run5	11/17/2013	13:08:00	3.16	17.05	82.7							
run5	11/17/2013	13:08:15	3.27	16.98	79.8							
run5	11/17/2013	13:08:30	3.30	16.94	72.8							
run5	11/17/2013	13:08:45	3.18	16.96	66.8							
run5	11/17/2013	13:09:00	3.19	17.03	66.0							
run5	11/17/2013	13:09:15	3.25	17.00	66.2							
run5	11/17/2013	13:09:30	3.24	16.93	62.7							
run5	11/17/2013	13:09:45	3.15	16.98	67.0							
run5	11/17/2013	13:10:00	3.11	17.08	72.0							
run5	11/17/2013	13:10:15	2.92	17.14	74.6							
run5	11/17/2013	13:10:30	2.94	17.21	80.8							
run5	11/17/2013	13:10:45	2.97	17.23	81.9							
run5	11/17/2013	13:11:00	3.12	17.22	79.2							
run5	11/17/2013	13:11:15	3.17	17.13	74.2							
run5	11/17/2013	13:11:30	3.08	17.08	70.4							
run5	11/17/2013	13:11:45	3.08	17.10	71.7							
run5	11/17/2013	13:12:00	3.07	17.12	72.9							
run5	11/17/2013	13:12:15	3.11	17.14	70.3							
run5	11/17/2013	13:12:30	3.02	17.13	65.1							
run5	11/17/2013	13:12:45	2.94	17.19	67.6							
run5	11/17/2013	13:13:00	2.98	17.22	80.4							
run5	11/17/2013	13:13:15	3.10	17.20	81.7							
run5	11/17/2013	13:13:30	3.20	17.13	77.7							
run5	11/17/2013	13:13:45	3.32	17.02	74.0							
run5	11/17/2013	13:14:00	3.32	16.87	67.1							
run5	11/17/2013	13:14:15	3.25	16.85	64.6							
run5	11/17/2013	13:14:30	3.28	16.92	66.5							
run5	11/17/2013	13:14:45	3.27	16.93	62.2							
run5	11/17/2013	13:15:00	3.40	16.87	56.4							
run5	11/17/2013	13:15:15	3.26	16.79	56.1							
run5	11/17/2013	13:15:30	3.30	16.87	59.0							
run5	11/17/2013	13:15:45	3.36	16.87	56.6							
run5	11/17/2013	13:16:00	3.29	16.86	48.4							
run5	11/17/2013	13:16:15	3.47	16.84	43.0							
run5	11/17/2013	13:16:30	3.42	16.71	37.1							
run5	11/17/2013	13:16:45	3.29	16.76	35.0							
run5	11/17/2013	13:17:00	3.29	16.89	41.1							
run5	11/17/2013	13:17:15	3.20	16.93	52.1							
run5	11/17/2013	13:17:30	3.07	16.98	63.5							
run5	11/17/2013	13:17:45	3.15	17.07	73.1							
run5	11/17/2013	13:18:00	3.17	17.08	73.1							
run5	11/17/2013	13:18:15	3.16	17.03	65.0							
run5	11/17/2013	13:18:30	3.18	17.02	59.0							
run5	11/17/2013	13:18:45	3.23	16.95	56.5							
run5	11/17/2013	13:19:00	3.31	16.94	51.1							

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run5	11/17/2013	13:19:15	3.36	16.87	46.1	
run5	11/17/2013	13:19:30	3.21	16.86	45.8	
run5	11/17/2013	13:19:45	3.05	16.98	54.4	
run5	11/17/2013	13:20:00	3.02	17.08	66.4	
run5	11/17/2013	13:20:15	3.01	17.16	72.2	
run5	11/17/2013	13:20:30	2.96	17.20	75.2	
run5	11/17/2013	13:20:45	2.99	17.24	78.6	
run5	11/17/2013	13:21:00	3.13	17.15	82.8	
run5	11/17/2013	13:21:15	3.27	17.01	75.7	
run5	11/17/2013	13:21:30	3.39	16.87	60.7	
run5	11/17/2013	13:21:45	3.30	16.82	51.1	
run5	11/17/2013	13:22:00	3.26	16.88	47.7	
run5	11/17/2013	13:22:15	3.23	16.89	47.2	
run5	11/17/2013	13:22:30	3.16	16.90	46.6	
run5	11/17/2013	13:22:45	3.13	16.98	46.9	
run5	11/17/2013	13:23:00	3.13	17.04	48.7	
run5	11/17/2013	13:23:15	3.32	17.05	54.5	
run5	11/17/2013	13:23:30	3.57	16.79	53.7	
run5	11/17/2013	13:23:45	3.52	16.61	47.5	
run5	11/17/2013	13:24:00	3.47	16.64	42.9	
run5	11/17/2013	13:24:15	3.51	16.69	39.3	
run5	11/17/2013	13:24:30	3.46	16.69	38.9	
run5	11/17/2013	13:24:45	3.44	16.71	45.7	
run5	11/17/2013	13:25:00	3.31	16.70	51.0	
run5	11/17/2013	13:25:15	3.28	16.83	51.8	
run5	11/17/2013	13:25:30	3.34	16.86	48.3	
run5	11/17/2013	13:25:45	3.37	16.81	43.2	
run5	11/17/2013	13:26:00	3.33	16.80	45.3	
run5	11/17/2013	13:26:15	3.24	16.80	52.8	
run5	11/17/2013	13:26:30	3.17	16.91	57.4	
run5	11/17/2013	13:26:45	3.16	16.99	57.1	
run5	11/17/2013	13:27:00	3.12	17.02	53.9	
run5	11/17/2013	13:27:15	3.22	16.99	58.7	
run5	11/17/2013	13:27:30	3.29	16.93	63.6	
run5	11/17/2013	13:27:45	3.36	16.87	56.7	
run5	11/17/2013	13:28:00	3.30	16.86	48.9	
run5	11/17/2013	13:28:15	3.34	16.85	49.4	
run5	11/17/2013	13:28:30	3.37	16.76	51.6	
run5	11/17/2013	13:28:45	3.19	16.82	49.8	
run5	11/17/2013	13:29:00	3.14	16.97	46.6	
run5	11/17/2013	13:29:15	3.20	17.06	45.1	
run5	11/17/2013	13:29:30	3.35	16.98	45.2	
run5	11/17/2013	13:29:45	3.27	16.83	44.3	
run5	11/17/2013	13:30:00	3.18	16.89	47.7	
run5	11/17/2013	13:30:15	3.23	17.00	54.2	
run5	11/17/2013	13:30:30	3.40	16.90	55.5	
run5	11/17/2013	13:30:45	3.25	16.82	57.3	
run5	11/17/2013	13:31:00	3.16	16.90	68.5	
run5	11/17/2013	13:31:15	3.12	17.02	72.8	
averun5	11/17/2013	13:06:00	3.20	16.98	63.5	21
scg7	11/17/2013	13:31:45	2.81	17.26	85.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:32:00	2.91	17.34	106.6	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:32:15	2.91	17.25	107.1	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:32:30	0.95	12.87	89.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:32:45	0.06	3.95	66.1	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:33:00	0.07	0.59	50.8	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:33:15	0.07	0.14	46.1	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:33:30	0.05	0.06	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:33:45	0.03	0.04	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:34:00	0.04	0.02	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:34:15	0.05	0.02	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:34:30	0.06	0.00	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:34:45	0.03	0.00	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:35:00	0.05	0.00	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:35:15	0.05	-0.01	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	13:35:30	0.02	-0.02	45.2	CC334442/cg7 CO 45.96 0 0 0
cospan1	11/17/2013	13:35:30	0.02	-0.02	45.2	CC334442/cg7 CO 45.96 0 0 0
scg6	11/17/2013	13:35:45	0.03	-0.01	45.2	CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg5	11/17/2013	13:36:00	0.05	-0.03	45.2	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:36:15	0.07	-0.03	45.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:36:30	0.10	-0.03	45.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:36:45	12.88	1.37	41.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:37:00	10.23	9.39	23.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:37:15	9.91	9.53	7.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:37:30	9.96	9.42	1.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:37:45	9.92	9.46	-0.2	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:38:00	9.93	9.49	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:38:15	9.97	9.49	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:38:30	9.98	9.47	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:38:45	9.95	9.50	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:39:00	9.96	9.52	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:39:15	9.93	9.52	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:39:30	9.97	9.51	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:39:45	9.92	9.50	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:40:00	9.96	9.50	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:40:15	9.95	9.53	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:40:30	9.96	9.54	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:40:45	9.94	9.51	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:41:00	9.98	9.51	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:41:15	9.96	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/17/2013	13:41:30	9.98	9.54	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
co2span1	11/17/2013	13:41:15	9.96	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
o2span1	11/17/2013	13:41:15	9.96	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg1	11/17/2013	13:41:45	9.96	9.54	-0.5	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	13:42:00	9.96	9.54	-0.5	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	13:42:15	9.96	9.51	-0.5	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	13:42:30	8.05	9.43	-0.5	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	13:42:45	0.51	6.51	-0.5	CC281765/cg1 CO 0 0 CO2 0 O2 0

name	O2		CO2		CO								
sn	1009241630		1009241630		48C-68846-361								
offset	0		0		0								
fullscale	100		20		200								
train	1		1		1								
gastype	o2 3a		co2 3a		co 10								
scg1	11/17/2013	13:43:00	0.15		1.32		-0.3	CC281765/cg1	CO	0	0 CO2	0 O2	0
scg1	11/17/2013	13:43:15	0.09		0.24		-0.3	CC281765/cg1	CO	0	0 CO2	0 O2	0
scg1	11/17/2013	13:43:30	0.07		0.07		-0.1	CC281765/cg1	CO	0	0 CO2	0 O2	0
scg1	11/17/2013	13:43:45	0.08		0.04		-0.1	CC281765/cg1	CO	0	0 CO2	0 O2	0
co2zero1	11/17/2013	13:43:30	0.07		0.07		-0.1	CC281765/cg1	CO	0	0 CO2	0 O2	0
co2zero1	11/17/2013	13:43:45	0.08		0.04		-0.1	CC281765/cg1	CO	0	0 CO2	0 O2	0
o2zero1	11/17/2013	13:43:45	0.08		0.04		-0.1	CC281765/cg1	CO	0	0 CO2	0 O2	0
run6	11/17/2013	13:46:30	3.54		16.77		44.3						
run6	11/17/2013	13:46:45	3.49		16.66		44.0						
run6	11/17/2013	13:47:00	3.32		16.67		46.2						
run6	11/17/2013	13:47:15	3.14		16.78		54.4						
run6	11/17/2013	13:47:30	3.10		17.01		68.1						
run6	11/17/2013	13:47:45	3.09		17.09		76.7						
run6	11/17/2013	13:48:00	3.03		17.13		77.6						
run6	11/17/2013	13:48:15	2.91		17.16		79.6						
run6	11/17/2013	13:48:30	2.76		17.26		88.6						
run6	11/17/2013	13:48:45	2.72		17.40		93.9						
run6	11/17/2013	13:49:00	2.78		17.49		96.9						
run6	11/17/2013	13:49:15	2.79		17.47		92.9						
run6	11/17/2013	13:49:30	2.80		17.39		85.4						
run6	11/17/2013	13:49:45	2.91		17.35		83.7						
run6	11/17/2013	13:50:00	3.00		17.31		80.2						
run6	11/17/2013	13:50:15	3.16		17.21		71.7						
run6	11/17/2013	13:50:30	3.15		17.10		65.5						
run6	11/17/2013	13:50:45	3.00		17.09		71.8						
run6	11/17/2013	13:51:00	3.08		17.13		81.1						
run6	11/17/2013	13:51:15	3.18		17.11		74.7						
run6	11/17/2013	13:51:30	3.37		17.02		63.3						
run6	11/17/2013	13:51:45	3.22		16.91		54.8						
run6	11/17/2013	13:52:00	3.15		16.98		53.7						
run6	11/17/2013	13:52:15	3.20		17.00		56.9						
run6	11/17/2013	13:52:30	3.12		17.04		59.8						
run6	11/17/2013	13:52:45	3.03		17.13		69.6						
run6	11/17/2013	13:53:00	3.09		17.20		87.5						
run6	11/17/2013	13:53:15	3.07		17.13		87.8						
run6	11/17/2013	13:53:30	3.08		17.10		75.1						
run6	11/17/2013	13:53:45	3.10		17.13		71.8						
run6	11/17/2013	13:54:00	3.12		17.13		73.4						
run6	11/17/2013	13:54:15	3.07		17.14		67.3						
run6	11/17/2013	13:54:30	3.14		17.11		62.4						
run6	11/17/2013	13:54:45	3.16		17.04		58.8						
run6	11/17/2013	13:55:00	3.04		17.11		58.4						
run6	11/17/2013	13:55:15	3.16		17.17		64.0						
run6	11/17/2013	13:55:30	3.32		17.06		67.5						
run6	11/17/2013	13:55:45	3.43		16.87		64.4						
run6	11/17/2013	13:56:00	3.35		16.77		61.9						
run6	11/17/2013	13:56:15	3.30		16.84		64.5						
run6	11/17/2013	13:56:30	3.20		16.95		67.8						
run6	11/17/2013	13:56:45	3.16		17.02		70.2						
run6	11/17/2013	13:57:00	3.05		17.05		71.8						
run6	11/17/2013	13:57:15	2.99		17.15		71.6						
run6	11/17/2013	13:57:30	3.02		17.24		73.0						
run6	11/17/2013	13:57:45	3.14		17.23		79.5						
run6	11/17/2013	13:58:00	3.09		17.09		74.5						
run6	11/17/2013	13:58:15	3.08		17.10		67.1						
run6	11/17/2013	13:58:30	3.10		17.16		62.8						
run6	11/17/2013	13:58:45	3.10		17.13		59.5						
run6	11/17/2013	13:59:00	3.09		17.17		61.6						
run6	11/17/2013	13:59:15	3.30		17.09		64.2						
run6	11/17/2013	13:59:30	3.42		16.91		60.3						
run6	11/17/2013	13:59:45	3.45		16.81		55.6						
run6	11/17/2013	14:00:00	3.33		16.81		56.6						
run6	11/17/2013	14:00:15	3.29		16.87		57.3						
run6	11/17/2013	14:00:30	3.19		16.89		55.7						
run6	11/17/2013	14:00:45	3.29		16.96		56.5						
run6	11/17/2013	14:01:00	3.47		16.94		55.1						
run6	11/17/2013	14:01:15	3.39		16.80		47.0						
run6	11/17/2013	14:01:30	3.23		16.86		46.7						
run6	11/17/2013	14:01:45	3.24		16.92		54.0						
run6	11/17/2013	14:02:00	3.20		16.96		59.0						
run6	11/17/2013	14:02:15	3.12		17.04		61.4						
run6	11/17/2013	14:02:30	3.16		17.14		64.4						
run6	11/17/2013	14:02:45	3.26		17.08		64.0						
run6	11/17/2013	14:03:00	3.23		16.93		55.3						
run6	11/17/2013	14:03:15	3.10		17.00		48.5						
run6	11/17/2013	14:03:30	3.08		17.15		50.4						
run6	11/17/2013	14:03:45	3.15		17.18		51.8						
run6	11/17/2013	14:04:00	3.14		17.07		49.3						
run6	11/17/2013	14:04:15	3.17		17.07		51.3						
run6	11/17/2013	14:04:30	3.32		17.03		52.7						
run6	11/17/2013	14:04:45	3.33		16.93		47.8						
run6	11/17/2013	14:05:00	3.41		16.89		43.6						
run6	11/17/2013	14:05:15	3.36		16.79		44.7						
run6	11/17/2013	14:05:30	3.20		16.84		45.9						
run6	11/17/2013	14:05:45	3.10		17.00		51.3						
run6	11/17/2013	14:06:00	3.03		17.14		63.0						
run6	11/17/2013	14:06:15	3.11		17.15		68.2						
run6	11/17/2013	14:06:30	3.12		17.09		58.9						
run6	11/17/2013	14:06:45	3.00		17.12		56.7						
run6	11/17/2013	14:07:00	2.93		17.25		75.7						
run6	11/17/2013	14:07:15	3.03		17.26		93.8						
run6	11/17/2013	14:07:30	3.07		17.18		88.1						
run6	11/17/2013	14:07:45	3.14		17.13		69.5						
run6	11/17/2013	14:08:00	3.06		17.14		60.4						
run6	11/17/2013	14:08:15	3.06		17.21		63.2						
run6	11/17/2013	14:08:30	3.12		17.16		63.6						
run6	11/17/2013	14:08:45	3.19		17.09		60.2						
run6	11/17/2013	14:09:00	3.16		17.06		62.5						

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run6	11/17/2013	14:09:15	3.05	17.11	68.7	
run6	11/17/2013	14:09:30	3.10	17.15	67.9	
run6	11/17/2013	14:09:45	3.07	17.13	63.5	
run6	11/17/2013	14:10:00	3.10	17.12	65.0	
run6	11/17/2013	14:10:15	2.97	17.17	66.5	
run6	11/17/2013	14:10:30	3.08	17.28	66.0	
run6	11/17/2013	14:10:45	3.30	17.11	60.0	
run6	11/17/2013	14:11:00	3.25	16.94	51.8	
run6	11/17/2013	14:11:15	3.55	16.90	46.2	
run6	11/17/2013	14:11:30	3.57	16.70	43.4	
run6	11/17/2013	14:11:45	3.36	16.71	41.0	
run6	11/17/2013	14:12:00	3.01	16.88	49.0	
run6	11/17/2013	14:12:15	2.90	17.16	77.4	
run6	11/17/2013	14:12:30	2.90	17.37	94.3	
run6	11/17/2013	14:12:45	3.05	17.34	96.3	
run6	11/17/2013	14:13:00	3.08	17.18	84.6	
run6	11/17/2013	14:13:15	3.10	17.08	68.4	
run6	11/17/2013	14:13:30	3.02	17.14	70.5	
run6	11/17/2013	14:13:45	3.09	17.20	78.1	
run6	11/17/2013	14:14:00	3.10	17.17	79.3	
run6	11/17/2013	14:14:15	2.98	17.17	82.7	
run6	11/17/2013	14:14:30	3.04	17.19	94.6	
averun6	11/17/2013	13:51:00	3.18	17.04	62.1	21
scg1	11/17/2013	14:14:45	3.09	17.19	94.4	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:15:00	3.16	17.15	84.9	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:15:15	3.08	17.11	77.9	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:15:30	2.78	16.82	78.2	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:15:45	0.44	11.12	57.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:16:00	0.05	2.27	27.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:16:15	-0.01	0.39	7.4	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:16:30	0.02	0.12	1.2	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:16:45	0.00	0.06	0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:17:00	-0.02	0.04	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:17:15	0.02	0.03	0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:17:30	0.02	0.02	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:17:45	-0.01	0.00	0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:18:00	0.01	0.00	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:18:15	-0.01	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:18:30	-0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:18:45	0.00	-0.01	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	14:19:00	0.00	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/17/2013	14:19:00	0.00	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/17/2013	14:19:00	0.00	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/17/2013	14:19:00	0.00	-0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg5	11/17/2013	14:19:30	0.01	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:19:45	-0.02	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:20:00	0.01	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:20:15	2.62	-0.02	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:20:30	9.44	3.45	-0.2	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:20:45	9.85	7.97	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:21:00	9.84	9.24	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:21:15	9.92	9.43	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:21:30	9.90	9.47	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:21:45	9.87	9.50	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:22:00	9.91	9.53	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:22:15	9.84	9.54	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:22:30	9.88	9.52	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:22:45	9.89	9.52	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:23:00	9.90	9.54	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	14:23:15	9.91	9.56	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
co2span1	11/17/2013	14:22:45	9.89	9.52	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2span1	11/17/2013	14:22:45	9.89	9.52	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg7	11/17/2013	14:23:30	9.93	9.56	-0.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:23:45	9.90	9.53	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:24:00	9.93	9.53	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:24:15	7.75	9.55	0.2	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:24:30	0.41	5.98	9.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:24:45	0.05	1.47	30.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:25:00	0.04	0.23	41.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:25:15	0.03	0.06	44.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:25:30	0.01	0.03	45.2	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:25:45	0.02	0.01	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:26:00	0.00	0.00	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:26:15	-0.02	-0.01	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:26:30	0.00	-0.01	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:26:45	0.00	-0.02	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:27:00	0.00	-0.02	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:27:15	0.00	-0.03	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:27:30	-0.01	-0.03	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:27:45	-0.04	-0.03	45.3	CC334442/cg7 CO 45.96 0 0 0
cospan1	11/17/2013	14:27:45	-0.04	-0.03	45.3	CC334442/cg7 CO 45.96 0 0 0
run7i	11/17/2013	14:28:45	-0.03	-0.04	45.5	
run7i	11/17/2013	14:29:00	2.07	2.02	45.8	
run7	11/17/2013	14:29:15	3.17	10.82	51.7	
run7	11/17/2013	14:29:30	3.30	15.73	54.6	
run7	11/17/2013	14:29:45	3.30	16.52	51.8	
run7	11/17/2013	14:30:00	3.23	16.73	50.9	
run7	11/17/2013	14:30:15	3.21	16.87	57.6	
run7	11/17/2013	14:30:30	3.27	16.88	58.7	
run7	11/17/2013	14:30:45	3.40	16.80	50.6	
run7	11/17/2013	14:31:00	3.20	16.78	42.0	
run7	11/17/2013	14:31:15	2.91	16.97	46.1	
run7	11/17/2013	14:31:30	2.80	17.27	64.3	
run7	11/17/2013	14:31:45	2.94	17.33	85.6	
run7	11/17/2013	14:32:00	3.15	17.18	80.2	
run7	11/17/2013	14:32:15	3.28	17.01	57.4	
run7	11/17/2013	14:32:30	3.11	16.97	49.9	
run7	11/17/2013	14:32:45	3.08	17.09	56.1	

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run7	11/17/2013	14:33:00	3.05	17.07	61.2	
run7	11/17/2013	14:33:15	2.86	17.14	67.3	
run7	11/17/2013	14:33:30	2.86	17.31	83.6	
run7	11/17/2013	14:33:45	2.85	17.34	97.5	
run7	11/17/2013	14:34:00	2.81	17.39	103.9	
run7	11/17/2013	14:34:15	2.92	17.34	104.1	
run7	11/17/2013	14:34:30	3.08	17.22	88.5	
run7	11/17/2013	14:34:45	3.05	17.16	68.1	
run7	11/17/2013	14:35:00	2.94	17.22	67.5	
run7	11/17/2013	14:35:15	2.79	17.27	81.8	
run7	11/17/2013	14:35:30	2.77	17.36	92.8	
run7	11/17/2013	14:35:45	2.82	17.41	99.6	
run7	11/17/2013	14:36:00	3.00	17.37	102.9	
run7	11/17/2013	14:36:15	3.24	17.18	92.9	
run7	11/17/2013	14:36:30	3.22	16.95	75.0	
run7	11/17/2013	14:36:45	3.24	16.96	64.6	
run7	11/17/2013	14:37:00	3.19	16.98	65.9	
run7	11/17/2013	14:37:15	3.27	17.02	75.6	
run7	11/17/2013	14:37:30	3.16	16.98	76.4	
run7	11/17/2013	14:37:45	3.18	17.01	73.5	
run7	11/17/2013	14:38:00	3.26	17.01	69.0	
run7	11/17/2013	14:38:15	3.44	16.93	62.9	
run7	11/17/2013	14:38:30	3.47	16.78	54.6	
run7	11/17/2013	14:38:45	3.31	16.71	45.9	
run7	11/17/2013	14:39:00	3.04	16.85	46.3	
run7	11/17/2013	14:39:15	2.80	17.13	67.6	
run7	11/17/2013	14:39:30	2.78	17.39	85.8	
run7	11/17/2013	14:39:45	3.03	17.40	88.1	
run7	11/17/2013	14:40:00	3.19	17.16	78.8	
run7	11/17/2013	14:40:15	3.22	16.99	68.7	
run7	11/17/2013	14:40:30	3.18	16.98	63.6	
run7	11/17/2013	14:40:45	3.23	17.03	64.8	
run7	11/17/2013	14:41:00	3.22	16.99	66.1	
run7	11/17/2013	14:41:15	3.30	16.91	62.5	
run7	11/17/2013	14:41:30	3.23	16.88	62.2	
run7	11/17/2013	14:41:45	3.20	16.95	63.9	
run7	11/17/2013	14:42:00	3.27	16.98	63.3	
run7	11/17/2013	14:42:15	3.36	16.91	59.3	
run7	11/17/2013	14:42:30	3.39	16.75	52.4	
run7	11/17/2013	14:42:45	3.31	16.78	45.2	
run7	11/17/2013	14:43:00	3.38	16.84	45.6	
run7	11/17/2013	14:43:15	3.48	16.80	48.7	
run7	11/17/2013	14:43:30	3.48	16.69	48.9	
run7	11/17/2013	14:43:45	3.24	16.70	47.8	
run7	11/17/2013	14:44:00	3.06	16.92	57.9	
run7	11/17/2013	14:44:15	3.08	17.11	74.1	
run7	11/17/2013	14:44:30	3.28	17.08	74.1	
run7	11/17/2013	14:44:45	3.31	16.93	59.0	
run7	11/17/2013	14:45:00	3.28	16.84	50.2	
run7	11/17/2013	14:45:15	3.34	16.86	48.3	
run7	11/17/2013	14:45:30	3.44	16.80	45.5	
run7	11/17/2013	14:45:45	3.36	16.77	42.5	
run7	11/17/2013	14:46:00	3.45	16.78	43.8	
run7	11/17/2013	14:46:15	3.64	16.64	45.4	
run7	11/17/2013	14:46:30	3.57	16.54	42.4	
run7	11/17/2013	14:46:45	3.33	16.65	41.8	
run7	11/17/2013	14:47:00	3.38	16.80	43.2	
run7	11/17/2013	14:47:15	3.27	16.80	42.5	
run7	11/17/2013	14:47:30	3.11	16.86	47.2	
run7	11/17/2013	14:47:45	3.08	17.02	60.5	
run7	11/17/2013	14:48:00	3.17	17.08	65.5	
run7	11/17/2013	14:48:15	3.29	17.03	59.6	
run7	11/17/2013	14:48:30	3.32	16.90	50.5	
run7	11/17/2013	14:48:45	3.26	16.84	43.6	
run7	11/17/2013	14:49:00	3.18	16.89	43.3	
run7	11/17/2013	14:49:15	3.16	16.99	45.1	
run7	11/17/2013	14:49:30	3.26	17.02	46.5	
run7	11/17/2013	14:49:45	3.16	16.98	49.0	
run7	11/17/2013	14:50:00	2.88	17.04	63.7	
run7	11/17/2013	14:50:15	2.88	17.23	94.0	
run7	11/17/2013	14:50:30	2.86	17.32	105.9	
run7	11/17/2013	14:50:45	2.86	17.35	108.3	
run7	11/17/2013	14:51:00	3.04	17.31	109.0	
run7	11/17/2013	14:51:15	3.15	17.12	93.9	
run7	11/17/2013	14:51:30	3.09	17.06	81.3	
run7	11/17/2013	14:51:45	3.05	17.10	88.3	
run7	11/17/2013	14:52:00	3.05	17.16	102.6	
run7	11/17/2013	14:52:15	3.26	17.10	105.7	
averun7	11/17/2013	14:30:00	3.17	17.00	64.3	21
scg7	11/17/2013	14:52:30	3.39	16.88	90.6	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:52:45	3.36	16.77	66.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:53:00	3.26	16.83	54.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:53:15	2.35	16.79	53.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:53:30	0.19	8.66	52.6	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:53:45	0.06	1.76	48.2	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:54:00	0.03	0.26	46.0	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:54:15	0.03	0.10	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:54:30	0.06	0.05	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:54:45	0.01	0.04	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:55:00	0.04	0.02	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:55:15	0.03	0.02	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:55:30	0.03	0.00	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:55:45	0.04	0.00	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:56:00	0.04	-0.01	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:56:15	0.04	-0.01	45.2	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:56:30	0.01	-0.01	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	14:56:45	0.03	-0.01	45.3	CC334442/cg7 CO 45.96 0 0 0
cospan1	11/17/2013	14:56:45	0.03	-0.01	45.3	CC334442/cg7 CO 45.96 0 0 0

name	O2		CO2		CO								
sn	1009241630		1009241630		48C-68846-361								
offset	0		0		0								
fullscale	100		20		200								
train	1		1		1								
gastype	o2 3a		co2 3a		co 10								
scg7	11/17/2013	14:57:00	0.04	-0.02	-0.02	45.4	CC334442/cg7	CO	45.96	0	0	0	
scg5	11/17/2013	14:57:15	0.04	-0.02	-0.02	45.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:57:30	0.05	-0.03	-0.03	45.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:57:45	0.30	-0.02	-0.02	45.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:58:00	2.47	1.19	1.19	45.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:58:15	9.44	3.49	3.49	33.8	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:58:30	9.89	7.93	7.93	15.0	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:58:45	9.91	9.14	9.14	2.8	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:59:00	9.93	9.40	9.40	0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:59:15	9.92	9.46	9.46	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:59:30	9.94	9.50	9.50	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	14:59:45	9.96	9.49	9.49	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:00:00	9.96	9.48	9.48	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:00:15	9.97	9.50	9.50	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:00:30	9.98	9.51	9.51	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:00:45	9.98	9.52	9.52	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:01:00	9.98	9.51	9.51	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:01:15	9.96	9.49	9.49	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:01:30	9.97	9.51	9.51	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:01:45	9.98	9.53	9.53	-0.5	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:02:00	9.96	9.53	9.53	-0.3	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:02:15	9.96	9.52	9.52	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:02:30	9.94	9.50	9.50	-0.5	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:02:45	9.98	9.52	9.52	-0.5	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:03:00	9.98	9.54	9.54	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:03:15	9.97	9.55	9.55	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:03:30	9.95	9.53	9.53	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:03:45	9.98	9.52	9.52	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:04:00	9.95	9.53	9.53	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
co2span1	11/17/2013	15:03:45	9.98	9.52	9.52	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
o2span1	11/17/2013	15:04:00	9.95	9.53	9.53	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg1	11/17/2013	15:04:15	9.86	9.53	9.53	-0.5	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:04:30	9.95	9.54	9.54	-0.5	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:04:45	9.96	9.52	9.52	-0.5	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:05:00	9.98	9.52	9.52	-0.4	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:05:15	4.84	9.27	9.27	-0.4	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:05:30	0.22	3.93	3.93	-0.3	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:05:45	0.09	0.74	0.74	-0.3	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:06:00	0.07	0.13	0.13	-0.2	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:06:15	0.09	0.05	0.05	-0.2	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:06:30	0.04	0.03	0.03	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:06:45	0.07	0.01	0.01	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:07:00	0.08	0.00	0.00	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:07:15	0.04	0.00	0.00	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:07:30	0.06	-0.01	-0.01	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:07:45	0.06	-0.01	-0.01	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:08:00	0.04	-0.02	-0.02	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
scg1	11/17/2013	15:08:15	0.05	-0.02	-0.02	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
cozero1	11/17/2013	15:08:00	0.04	-0.02	-0.02	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
co2zero1	11/17/2013	15:08:15	0.05	-0.02	-0.02	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
o2zero1	11/17/2013	15:08:15	0.05	-0.02	-0.02	-0.1	CC281765/cg1	CO	0	0	CO2	0	O2
run8l	11/17/2013	15:08:45	0.05	-0.03	-0.03	-0.1							
run8l	11/17/2013	15:09:00	0.04	-0.03	-0.03	-0.1							
run8l	11/17/2013	15:09:15	0.32	-0.03	-0.03	0.0							
run8l	11/17/2013	15:09:30	2.84	3.48	3.48	8.8							
run8	11/17/2013	15:09:45	3.11	12.90	12.90	32.2							
run8	11/17/2013	15:10:00	3.12	16.19	16.19	52.0							
run8	11/17/2013	15:10:15	3.24	16.79	16.79	61.7							
run8	11/17/2013	15:10:30	3.15	16.86	16.86	55.7							
run8	11/17/2013	15:10:45	2.96	16.92	16.92	53.0							
run8	11/17/2013	15:11:00	2.83	17.15	17.15	68.6							
run8	11/17/2013	15:11:15	2.95	17.27	17.27	89.8							
run8	11/17/2013	15:11:30	3.14	17.20	17.20	96.4							
run8	11/17/2013	15:11:45	3.15	17.05	17.05	85.9							
run8	11/17/2013	15:12:00	3.08	16.97	16.97	70.4							
run8	11/17/2013	15:12:15	2.95	17.09	17.09	63.7							
run8	11/17/2013	15:12:30	2.97	17.21	17.21	68.1							
run8	11/17/2013	15:12:45	3.00	17.23	17.23	71.8							
run8	11/17/2013	15:13:00	3.07	17.17	17.17	74.3							
run8	11/17/2013	15:13:15	3.19	17.07	17.07	78.4							
run8	11/17/2013	15:13:30	3.27	16.98	16.98	72.0							
run8	11/17/2013	15:13:45	3.37	16.91	16.91	59.6							
run8	11/17/2013	15:14:00	3.44	16.83	16.83	50.2							
run8	11/17/2013	15:14:15	3.46	16.76	16.76	41.7							
run8	11/17/2013	15:14:30	3.47	16.70	16.70	35.7							
run8	11/17/2013	15:14:45	3.36	16.70	16.70	35.3							
run8	11/17/2013	15:15:00	3.13	16.85	16.85	42.5							
run8	11/17/2013	15:15:15	3.00	17.09	17.09	53.7							
run8	11/17/2013	15:15:30	3.13	17.17	17.17	64.4							
run8	11/17/2013	15:15:45	3.38	17.03	17.03	62.5							
run8	11/17/2013	15:16:00	3.18	16.90	16.90	55.8							
run8	11/17/2013	15:16:15	3.08	17.02	17.02	66.4							
run8	11/17/2013	15:16:30	3.04	17.13	17.13	79.7							
run8	11/17/2013	15:16:45	3.06	17.13	17.13	79.3							
run8	11/17/2013	15:17:00	3.06	17.12	17.12	70.6							
run8	11/17/2013	15:17:15	3.00	17.15	17.15	65.1							
run8	11/17/2013	15:17:30	2.97	17.25	17.25	70.7							
run8	11/17/2013												

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run8	11/17/2013	15:20:30	3.00	16.92	48.9	
run8	11/17/2013	15:20:45	2.92	17.14	64.3	
run8	11/17/2013	15:21:00	2.96	17.27	81.9	
run8	11/17/2013	15:21:15	3.17	17.24	84.1	
run8	11/17/2013	15:21:30	3.28	17.07	72.2	
run8	11/17/2013	15:21:45	3.24	16.92	58.8	
run8	11/17/2013	15:22:00	3.28	16.95	48.7	
run8	11/17/2013	15:22:15	3.38	16.94	42.1	
run8	11/17/2013	15:22:30	3.40	16.86	38.3	
run8	11/17/2013	15:22:45	3.55	16.73	34.8	
run8	11/17/2013	15:23:00	3.48	16.64	33.5	
run8	11/17/2013	15:23:15	3.15	16.79	42.3	
run8	11/17/2013	15:23:30	3.10	17.07	58.0	
run8	11/17/2013	15:23:45	3.15	17.09	63.0	
run8	11/17/2013	15:24:00	3.27	16.99	58.0	
run8	11/17/2013	15:24:15	3.21	16.93	52.7	
run8	11/17/2013	15:24:30	3.01	17.04	57.6	
run8	11/17/2013	15:24:45	2.91	17.22	69.3	
run8	11/17/2013	15:25:00	2.81	17.31	82.9	
run8	11/17/2013	15:25:15	2.91	17.37	92.9	
run8	11/17/2013	15:25:30	3.14	17.28	94.8	
run8	11/17/2013	15:25:45	3.06	17.14	83.1	
run8	11/17/2013	15:26:00	3.09	17.15	80.0	
run8	11/17/2013	15:26:15	3.28	17.06	80.4	
run8	11/17/2013	15:26:30	3.22	16.95	66.1	
run8	11/17/2013	15:26:45	3.08	17.03	58.0	
run8	11/17/2013	15:27:00	3.05	17.16	66.6	
run8	11/17/2013	15:27:15	3.05	17.20	79.7	
run8	11/17/2013	15:27:30	3.10	17.18	84.3	
run8	11/17/2013	15:27:45	3.33	17.10	78.1	
run8	11/17/2013	15:28:00	3.42	16.90	69.6	
run8	11/17/2013	15:28:15	3.38	16.84	63.5	
run8	11/17/2013	15:28:30	3.42	16.87	61.6	
run8	11/17/2013	15:28:45	3.63	16.72	58.0	
run8	11/17/2013	15:29:00	3.56	16.63	51.4	
run8	11/17/2013	15:29:15	3.34	16.71	49.0	
run8	11/17/2013	15:29:30	3.53	16.83	54.0	
run8	11/17/2013	15:29:45	3.57	16.67	56.5	
run8	11/17/2013	15:30:00	3.46	16.64	57.6	
run8	11/17/2013	15:30:15	3.34	16.72	61.0	
run8	11/17/2013	15:30:30	3.11	16.94	72.1	
run8	11/17/2013	15:30:45	3.22	17.06	85.1	
run8	11/17/2013	15:31:00	3.18	16.98	80.3	
run8	11/17/2013	15:31:15	3.24	17.01	70.7	
run8	11/17/2013	15:31:30	3.38	16.99	66.1	
run8	11/17/2013	15:31:45	3.47	16.85	57.5	
run8	11/17/2013	15:32:00	3.27	16.80	55.4	
run8	11/17/2013	15:32:15	3.37	16.89	58.2	
run8	11/17/2013	15:32:30	3.44	16.83	54.3	
run8	11/17/2013	15:32:45	3.55	16.77	46.3	
run8	11/17/2013	15:33:00	3.49	16.70	40.1	
run8	11/17/2013	15:33:15	3.41	16.70	39.5	
run8	11/17/2013	15:33:30	3.32	16.75	45.0	
run8	11/17/2013	15:33:45	3.33	16.86	51.9	
run8	11/17/2013	15:34:00	3.21	16.92	55.4	
run8	11/17/2013	15:34:15	3.11	17.02	63.7	
run8	11/17/2013	15:34:30	3.00	17.11	72.0	
run8	11/17/2013	15:34:45	3.03	17.17	71.8	
run8	11/17/2013	15:35:00	3.19	17.16	69.3	
run8	11/17/2013	15:35:15	3.18	17.06	68.9	
run8	11/17/2013	15:35:30	3.09	17.08	71.3	
run8	11/17/2013	15:35:45	2.98	17.14	74.0	
run8	11/17/2013	15:36:00	3.07	17.14	80.6	
run8	11/17/2013	15:36:15	3.33	17.09	83.1	
run8	11/17/2013	15:36:30	3.48	16.91	72.9	
averun8	11/17/2013	15:11:00	3.22	16.99	63.1	21
scg1	11/17/2013	15:36:45	3.27	16.76	61.7	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:37:00	2.95	16.94	68.2	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:37:15	3.00	17.16	85.7	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:37:30	2.44	16.48	83.8	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:37:45	0.22	9.59	53.5	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:38:00	0.01	1.91	20.9	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:38:15	0.01	0.30	5.6	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:38:30	0.01	0.10	0.7	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:38:45	0.02	0.06	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:39:00	-0.02	0.05	0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:39:15	0.02	0.04	0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:39:30	0.01	0.02	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	15:39:45	0.01	0.02	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
cozero1	11/17/2013	15:39:45	0.01	0.02	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/17/2013	15:39:30	0.01	0.02	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/17/2013	15:39:30	0.01	0.02	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg5	11/17/2013	15:40:00	-0.04	0.00	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:40:15	0.02	0.01	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:40:30	0.00	0.00	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:40:45	0.08	0.00	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:41:00	7.55	1.30	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:41:15	9.81	6.27	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:41:30	9.89	8.92	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:41:45	9.90	9.37	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:42:00	9.94	9.46	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:42:15	9.92	9.48	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:42:30	9.92	9.51	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:42:45	9.94	9.52	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:43:00	9.95	9.52	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:43:15	9.95	9.50	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:43:30	9.97	9.52	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	15:43:45	9.94	9.53	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0

name	O2		CO2		CO							
sn	1009241630		1009241630		48C-68846-361							
offset	0		0		0							
fullscale	100		20		200							
train	1		1		1							
gastype	o2 3a		co2 3a		co 10							
scg5	11/17/2013	15:44:00	9.96	9.54	-0.5	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/17/2013	15:44:15	9.92	9.52	-0.4	CC427756/cg5	O2	10.03	CO2	9.624	0	0
co2span1	11/17/2013	15:44:00	9.96	9.54	-0.5	CC427756/cg5	O2	10.03	CO2	9.624	0	0
o2span1	11/17/2013	15:44:00	9.96	9.54	-0.5	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg7	11/17/2013	15:44:45	9.98	9.54	-0.4	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:45:00	9.97	9.54	-0.4	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:45:15	9.97	9.54	-0.3	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:45:30	7.39	9.35	0.4	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:45:45	0.37	6.07	10.9	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:46:00	0.12	1.19	30.9	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:46:15	0.07	0.22	41.7	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:46:30	0.05	0.08	44.9	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:46:45	0.07	0.04	45.1	CC334442/cg7	CO	45.96		0	0	0
scg7	11/17/2013	15:47:00	0.04	0.02	45.3	CC334442/cg7	CO	45.96		0	0	0
cospan1	11/17/2013	15:47:00	0.04	0.02	45.3	CC334442/cg7	CO	45.96		0	0	0
run9l	11/17/2013	15:47:30	0.04	0.00	45.3							
run9l	11/17/2013	15:47:45	0.05	0.00	45.3							
run9l	11/17/2013	15:48:00	0.38	0.04	45.3							
run9l	11/17/2013	15:48:15	3.02	3.68	43.4							
run9	11/17/2013	15:48:30	3.29	13.39	40.2							
run9	11/17/2013	15:48:45	3.18	16.15	45.4							
run9	11/17/2013	15:49:00	3.31	16.71	52.9							
run9	11/17/2013	15:49:15	3.19	16.72	55.6							
run9	11/17/2013	15:49:30	3.23	16.89	58.9							
run9	11/17/2013	15:49:45	3.40	16.85	57.7							
run9	11/17/2013	15:50:00	3.35	16.76	48.2							
run9	11/17/2013	15:50:15	3.32	16.79	40.7							
run9	11/17/2013	15:50:30	3.34	16.75	40.5							
run9	11/17/2013	15:50:45	3.29	16.79	46.1							
run9	11/17/2013	15:51:00	3.19	16.89	54.1							
run9	11/17/2013	15:51:15	3.08	17.01	58.7							
run9	11/17/2013	15:51:30	3.06	17.08	62.0							
run9	11/17/2013	15:51:45	3.13	17.08	69.8							
run9	11/17/2013	15:52:00	3.10	17.07	69.6							
run9	11/17/2013	15:52:15	2.96	17.13	66.4							
run9	11/17/2013	15:52:30	3.11	17.19	75.6							
run9	11/17/2013	15:52:45	3.17	17.08	82.9							
run9	11/17/2013	15:53:00	3.21	17.01	79.7							
run9	11/17/2013	15:53:15	3.34	16.98	69.8							
run9	11/17/2013	15:53:30	3.46	16.85	55.3							
run9	11/17/2013	15:53:45	3.47	16.74	44.2							
run9	11/17/2013	15:54:00	3.35	16.75	41.9							
run9	11/17/2013	15:54:15	3.44	16.76	44.9							
run9	11/17/2013	15:54:30	3.43	16.76	41.3							
run9	11/17/2013	15:54:45	3.28	16.82	39.0							
run9	11/17/2013	15:55:00	3.14	16.93	46.6							
run9	11/17/2013	15:55:15	3.18	17.00	57.4							
run9	11/17/2013	15:55:30	3.46	16.97	61.3							
run9	11/17/2013	15:55:45	3.34	16.79	54.0							
run9	11/17/2013	15:56:00	3.12	16.91	49.1							
run9	11/17/2013	15:56:15	3.17	17.07	52.2							
run9	11/17/2013	15:56:30	3.34	16.97	53.3							
run9	11/17/2013	15:56:45	3.26	16.87	49.8							
run9	11/17/2013	15:57:00	3.13	16.97	48.3							
run9	11/17/2013	15:57:15	3.05	17.10	53.4							
run9	11/17/2013	15:57:30	3.10	17.17	60.0							
run9	11/17/2013	15:57:45	3.29	17.07	62.9							
run9	11/17/2013	15:58:00	3.29	16.92	60.1							
run9	11/17/2013	15:58:15	3.01	16.98	60.6							
run9	11/17/2013	15:58:30	3.15	17.16	68.0							
run9	11/17/2013	15:58:45	3.27	17.09	63.1							
run9	11/17/2013	15:59:00	3.17	16.97	52.0							
run9	11/17/2013	15:59:15	3.13	17.03	54.5							
run9	11/17/2013	15:59:30	3.21	17.09	65.6							
run9	11/17/2013	15:59:45	3.07	17.07	63.5							
run9	11/17/2013	16:00:00	3.25	17.10	56.2							
run9	11/17/2013	16:00:15	3.38	16.94	50.8							
run9	11/17/2013	16:00:30	3.46	16.84	47.8							
run9	11/17/2013	16:00:45	3.52	16.76	46.8							
run9	11/17/2013	16:01:00	3.45	16.73	43.7							
run9	11/17/2013	16:01:15	3.39	16.72	39.6							
run9	11/17/2013	16:01:30	3.10	16.82	39.7							
run9	11/17/2013	16:01:45	2.88	17.13	57.3							
run9	11/17/2013	16:02:00	2.89	17.35	84.4							
run9	11/17/2013	16:02:15	3.10	17.33	87.6							
run9	11/17/2013	16:02:30	3.27	17.07	69.2							
run9	11/17/2013	16:02:45	3.14	16.98	54.5							
run9	11/17/2013	16:03:00	3.09	17.10	46.9							
run9	11/17/2013	16:03:15	3.02	17.17	47.7							
run9	11/17/2013	16:03:30	2.91	17.21	54.4							
run9	11/17/2013	16:03:45	2.89	17.26	64.1							
run9	11/17/2013	16:04:00	2.91	17.32	75.3							
run9	11/17/2013	16:04:15	2.91	17.35	82.9							
run9	11/17/2013	16:04:30	3.05	17.33	87.5							
run9	11/17/2013	16:04:45	3.17	17.19	80.7							
run9	11/17/2013	16:05:00	3.31	17.01	71.4							
run9	11/17/2013	16:05:15	3.22	16.97	63.2							
run9	11/17/2013	16:05:30	3.07	17.05	59.8							
run9	11/17/2013	16:05:45	3.05	17.15	66.1							
run9	11/17/2013	16:06:00	3.00	17.15	73.9							
run9	11/17/2013	16:06:15	3.03	17.20	77.3							
run9	11/17/2013	16:06:30	3.16	17.17	78.0							
run9	11/17/2013	16:06:45	3.25	17.13	76.5							
run9	11/17/2013	16:07:00	3.37	16.99	68.9							
run9	11/17/2013	16:07:15	3.19	16.86	59.4							
run9	11/17/2013	16:07:30	3.15	17.03	62.2							
run9	11/17/2013	16:07:45	3.24	17.06	65.8							
run9	11/17/2013	16:08:00	3.29	17.02	63.8							

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run9	11/17/2013	16:08:15	3.30	16.93	60.0	
run9	11/17/2013	16:08:30	3.30	16.92	54.1	
run9	11/17/2013	16:08:45	3.18	16.95	53.6	
run9	11/17/2013	16:09:00	3.13	17.07	64.6	
run9	11/17/2013	16:09:15	3.26	17.07	71.4	
run9	11/17/2013	16:09:30	3.35	16.94	66.7	
run9	11/17/2013	16:09:45	3.30	16.86	58.2	
run9	11/17/2013	16:10:00	3.18	16.96	56.1	
run9	11/17/2013	16:10:15	3.08	17.09	60.2	
run9	11/17/2013	16:10:30	3.14	17.14	62.0	
run9	11/17/2013	16:10:45	3.07	17.09	60.9	
run9	11/17/2013	16:11:00	3.09	17.15	66.2	
run9	11/17/2013	16:11:15	3.24	17.16	66.0	
run9	11/17/2013	16:11:30	3.35	17.04	53.8	
run9	11/17/2013	16:11:45	3.30	16.90	46.8	
run9	11/17/2013	16:12:00	3.32	16.90	47.4	
run9	11/17/2013	16:12:15	3.34	16.91	49.4	
run9	11/17/2013	16:12:30	3.53	16.89	48.8	
run9	11/17/2013	16:12:45	3.58	16.74	45.8	
run9	11/17/2013	16:13:00	3.33	16.70	42.3	
run9	11/17/2013	16:13:15	3.29	16.85	45.2	
run9	11/17/2013	16:13:30	3.21	16.95	49.7	
run9	11/17/2013	16:13:45	3.05	17.07	53.6	
run9	11/17/2013	16:14:00	3.08	17.19	65.3	
run9	11/17/2013	16:14:15	3.10	17.17	71.3	
run9	11/17/2013	16:14:30	3.21	17.09	67.7	
run9	11/17/2013	16:14:45	3.10	17.08	63.0	
run9	11/17/2013	16:15:00	3.03	17.18	65.9	
run9	11/17/2013	16:15:15	3.06	17.25	70.6	
run9	11/17/2013	16:15:30	3.17	17.15	74.7	
run9	11/17/2013	16:15:45	3.10	17.08	77.8	
run9	11/17/2013	16:16:00	3.17	17.12	73.8	
run9	11/17/2013	16:16:15	3.25	17.09	62.6	
run9	11/17/2013	16:16:30	3.20	17.04	53.6	
run9	11/17/2013	16:16:45	3.07	17.05	58.7	
run9	11/17/2013	16:17:00	3.17	17.13	70.5	
run9	11/17/2013	16:17:15	3.37	17.06	66.6	
run9	11/17/2013	16:17:30	3.20	16.94	59.8	
run9	11/17/2013	16:17:45	3.11	17.05	69.8	
averun9	11/17/2013	15:52:00	3.21	17.02	60.0	21
scg7	11/17/2013	16:18:00	3.10	17.08	78.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:18:15	3.09	17.11	75.2	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:18:30	3.13	17.16	68.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:18:45	1.60	15.70	61.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:19:00	0.06	5.79	51.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:19:15	0.03	1.02	47.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:19:30	0.02	0.20	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:19:45	0.03	0.11	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:20:00	0.02	0.07	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:20:15	0.01	0.05	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:20:30	0.00	0.04	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:20:45	0.02	0.04	45.2	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:21:00	0.00	0.03	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	16:21:15	-0.01	0.02	45.5	CC334442/cg7 CO 45.96 0 0 0
cospan1	11/17/2013	16:21:15	-0.01	0.02	45.5	CC334442/cg7 CO 45.96 0 0 0
scg5	11/17/2013	16:21:30	-0.10	-0.01	45.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	16:21:45	0.01	0.01	45.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	16:22:00	-0.01	0.01	45.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	16:22:15	0.00	0.01	45.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	16:22:30	6.63	0.84	41.8	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	16:22:45	9.76	5.69	25.9	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	16:23:00	9.86	8.73	7.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	16:23:15	9.90	9.37	1.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	16:23:30	9.88	9.51	-0.2	CC427756/cg5 O2 10.03 CO2 9.624 0 0
co2span1	11/17/2013	16:23:30	9.88	9.51	-0.2	CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2span1	11/17/2013	16:23:30	9.88	9.51	-0.2	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg1	11/17/2013	16:23:45	9.88	9.52	-0.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:24:00	9.89	9.53	-0.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:24:15	9.91	9.54	-0.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:24:30	9.92	9.56	-0.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:24:45	3.11	8.81	-0.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:25:00	0.12	2.91	-0.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:25:15	0.05	0.55	-0.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:25:30	0.01	0.12	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:25:45	0.01	0.06	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:26:00	0.01	0.03	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:26:15	0.00	0.02	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:26:30	0.02	0.01	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:26:45	0.01	0.00	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	16:27:00	0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
cozero1	11/17/2013	16:27:00	0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/17/2013	16:26:45	0.01	0.00	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/17/2013	16:27:00	0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
run10	11/17/2013	16:55:15	2.98	17.07	58.3	
run10	11/17/2013	16:55:30	2.77	17.10	61.9	
run10	11/17/2013	16:55:45	2.93	17.19	65.6	
run10	11/17/2013	16:56:00	3.12	17.17	71.8	
run10	11/17/2013	16:56:15	3.13	17.01	70.4	
run10	11/17/2013	16:56:30	3.07	17.05	67.2	
run10	11/17/2013	16:56:45	2.93	17.15	73.1	
run10	11/17/2013	16:57:00	2.87	17.25	83.4	
run10	11/17/2013	16:57:15	3.04	17.27	86.4	
run10	11/17/2013	16:57:30	3.16	17.09	80.3	
run10	11/17/2013	16:57:45	3.13	17.01	72.1	
run10	11/17/2013	16:58:00	3.12	17.04	63.9	
run10	11/17/2013	16:58:15	3.18	17.06	63.9	
run10	11/17/2013	16:58:30	3.27	17.00	64.9	
run10	11/17/2013	16:58:45	3.16	16.92	65.1	

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run10	11/17/2013	16:59:00	3.07	16.99	71.9	
run10	11/17/2013	16:59:15	3.02	17.10	84.2	
run10	11/17/2013	16:59:30	3.27	17.11	95.1	
run10	11/17/2013	16:59:45	3.44	16.94	87.9	
run10	11/17/2013	17:00:00	3.41	16.74	70.8	
run10	11/17/2013	17:00:15	3.32	16.74	59.4	
run10	11/17/2013	17:00:30	3.39	16.81	50.9	
run10	11/17/2013	17:00:45	3.54	16.76	43.8	
run10	11/17/2013	17:01:00	3.46	16.67	39.5	
run10	11/17/2013	17:01:15	3.40	16.68	38.0	
run10	11/17/2013	17:01:30	3.54	16.71	38.3	
run10	11/17/2013	17:01:45	3.69	16.63	38.2	
run10	11/17/2013	17:02:00	3.59	16.55	38.8	
run10	11/17/2013	17:02:15	3.45	16.64	43.8	
run10	11/17/2013	17:02:30	3.38	16.70	50.2	
run10	11/17/2013	17:02:45	3.33	16.75	54.3	
run10	11/17/2013	17:03:00	3.47	16.81	57.0	
run10	11/17/2013	17:03:15	3.45	16.74	52.6	
run10	11/17/2013	17:03:30	3.28	16.79	47.4	
run10	11/17/2013	17:03:45	3.12	16.89	50.9	
run10	11/17/2013	17:04:00	3.20	17.00	61.9	
run10	11/17/2013	17:04:15	3.35	16.97	70.4	
run10	11/17/2013	17:04:30	3.39	16.88	66.3	
run10	11/17/2013	17:04:45	3.34	16.85	54.4	
run10	11/17/2013	17:05:00	3.27	16.87	50.9	
run10	11/17/2013	17:05:15	3.23	16.90	57.2	
run10	11/17/2013	17:05:30	3.09	17.02	63.9	
run10	11/17/2013	17:05:45	3.03	17.12	69.1	
run10	11/17/2013	17:06:00	3.07	17.19	74.3	
run10	11/17/2013	17:06:15	3.06	17.16	75.5	
run10	11/17/2013	17:06:30	3.05	17.11	72.5	
run10	11/17/2013	17:06:45	2.81	17.21	79.5	
run10	11/17/2013	17:07:00	2.72	17.43	104.9	
run10	11/17/2013	17:07:15	2.81	17.46	123.1	
run10	11/17/2013	17:07:30	2.98	17.36	124.1	
run10	11/17/2013	17:07:45	3.02	17.25	110.3	
run10	11/17/2013	17:08:00	3.14	17.18	90.0	
run10	11/17/2013	17:08:15	3.20	17.10	69.8	
run10	11/17/2013	17:08:30	3.28	17.03	65.1	
run10	11/17/2013	17:08:45	3.32	16.90	67.6	
run10	11/17/2013	17:09:00	3.23	16.89	62.2	
run10	11/17/2013	17:09:15	3.10	17.00	59.2	
run10	11/17/2013	17:09:30	3.19	17.09	64.7	
run10	11/17/2013	17:09:45	3.41	17.03	61.8	
run10	11/17/2013	17:10:00	3.48	16.76	51.7	
run10	11/17/2013	17:10:15	3.41	16.71	44.5	
run10	11/17/2013	17:10:30	3.37	16.78	41.6	
run10	11/17/2013	17:10:45	3.39	16.82	42.3	
run10	11/17/2013	17:11:00	3.32	16.85	43.7	
run10	11/17/2013	17:11:15	3.30	16.84	46.3	
run10	11/17/2013	17:11:30	3.32	16.88	50.4	
run10	11/17/2013	17:11:45	3.11	16.97	55.4	
run10	11/17/2013	17:12:00	3.11	17.13	63.1	
run10	11/17/2013	17:12:15	3.13	17.13	65.2	
run10	11/17/2013	17:12:30	3.10	17.07	60.2	
run10	11/17/2013	17:12:45	3.00	17.12	57.3	
run10	11/17/2013	17:13:00	2.97	17.24	65.1	
run10	11/17/2013	17:13:15	3.18	17.24	70.5	
run10	11/17/2013	17:13:30	3.30	17.06	61.4	
run10	11/17/2013	17:13:45	3.19	16.94	51.0	
run10	11/17/2013	17:14:00	3.11	17.02	52.5	
run10	11/17/2013	17:14:15	3.04	17.15	62.9	
run10	11/17/2013	17:14:30	3.13	17.19	67.5	
run10	11/17/2013	17:14:45	3.25	17.10	62.0	
run10	11/17/2013	17:15:00	3.27	16.94	57.5	
run10	11/17/2013	17:15:15	3.05	16.97	55.9	
run10	11/17/2013	17:15:30	2.84	17.21	59.8	
run10	11/17/2013	17:15:45	2.92	17.39	69.7	
run10	11/17/2013	17:16:00	3.05	17.29	70.6	
run10	11/17/2013	17:16:15	2.96	17.18	66.4	
run10	11/17/2013	17:16:30	2.89	17.26	72.0	
run10	11/17/2013	17:16:45	2.97	17.33	81.1	
run10	11/17/2013	17:17:00	3.03	17.29	82.7	
run10	11/17/2013	17:17:15	3.21	17.18	76.7	
run10	11/17/2013	17:17:30	3.35	16.98	70.5	
run10	11/17/2013	17:17:45	3.47	16.83	67.9	
run10	11/17/2013	17:18:00	3.37	16.77	65.8	
run10	11/17/2013	17:18:15	3.20	16.88	67.6	
run10	11/17/2013	17:18:30	2.97	17.06	86.3	
run10	11/17/2013	17:18:45	3.08	17.17	108.8	
run10	11/17/2013	17:19:00	3.14	17.13	103.4	
run10	11/17/2013	17:19:15	3.05	17.12	83.4	
run10	11/17/2013	17:19:30	3.05	17.22	79.2	
run10	11/17/2013	17:19:45	3.31	17.15	83.2	
run10	11/17/2013	17:20:00	3.31	16.91	73.9	
run10	11/17/2013	17:20:15	3.01	16.96	68.5	
run10	11/17/2013	17:20:30	2.96	17.21	76.6	
run10	11/17/2013	17:20:45	3.11	17.25	78.0	
run10	11/17/2013	17:21:00	3.22	17.10	70.8	
run10	11/17/2013	17:21:15	3.24	16.98	64.0	
run10	11/17/2013	17:21:30	3.18	17.02	62.2	
run10	11/17/2013	17:21:45	3.32	17.04	58.9	
run10	11/17/2013	17:22:00	3.40	16.91	53.4	
run10	11/17/2013	17:22:15	3.31	16.82	54.7	
run10	11/17/2013	17:22:30	3.30	16.87	61.5	
run10	11/17/2013	17:22:45	3.11	16.95	68.2	
run10	11/17/2013	17:23:00	3.13	17.12	77.7	
run10	11/17/2013	17:23:15	3.16	17.10	81.0	

name	O2		CO2		CO	
sn	1009241630		1009241630		48C-68846-361	
offset	0		0		0	
fullscale	100		20		200	
train	1		1		1	
gastype	o2 3a		co2 3a		co 10	
run10	11/17/2013	17:23:30	3.17	17.05	80.2	
run10	11/17/2013	17:23:45	3.13	17.05	77.9	
run10	11/17/2013	17:24:00	3.01	17.13	78.5	
run10	11/17/2013	17:24:15	2.88	17.27	83.5	
run10	11/17/2013	17:24:30	3.02	17.28	93.2	
run10	11/17/2013	17:24:45	3.01	17.19	101.3	
run10	11/17/2013	17:25:00	3.04	17.20	103.6	
run10	11/17/2013	17:25:15	3.20	17.19	96.1	
run10	11/17/2013	17:25:30	3.13	17.09	84.7	
run10	11/17/2013	17:25:45	3.10	17.10	83.3	
averun10	11/17/2013	17:03:00	3.17	17.05	68.3	21
scg1	11/17/2013	17:26:00	3.10	17.09	88.4	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:26:15	3.23	17.10	82.4	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:26:30	3.30	17.00	67.9	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:26:45	2.04	15.08	52.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:27:00	0.09	5.20	28.6	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:27:15	0.04	0.83	10.3	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:27:30	0.04	0.17	2.2	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:27:45	0.03	0.07	0.2	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:28:00	0.02	0.04	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:28:15	0.02	0.02	0.0	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:28:30	0.02	0.01	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/17/2013	17:28:45	0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
cozero1	11/17/2013	17:28:45	0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/17/2013	17:28:45	0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/17/2013	17:28:45	0.02	0.00	-0.1	CC281765/cg1 CO 0 0 CO2 0 O2 0
scg5	11/17/2013	17:29:15	0.03	0.00	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:29:30	0.03	-0.01	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:29:45	0.01	0.00	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:30:00	5.51	0.35	-0.1	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:30:15	9.98	4.86	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:30:30	9.89	8.54	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:30:45	9.90	9.25	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:31:00	9.91	9.45	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:31:15	9.92	9.50	-0.3	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:31:30	9.91	9.52	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:31:45	9.93	9.50	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:32:00	9.92	9.51	-0.4	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/17/2013	17:32:15	9.93	9.54	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
co2span1	11/17/2013	17:32:15	9.93	9.54	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2span1	11/17/2013	17:32:15	9.93	9.54	-0.5	CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg7	11/17/2013	17:32:30	9.92	9.56	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:32:45	9.90	9.55	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:33:00	9.92	9.53	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:33:15	9.92	9.53	-0.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:33:30	3.47	8.58	2.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:33:45	0.14	3.55	20.1	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:34:00	0.03	0.48	36.9	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:34:15	0.06	0.11	43.8	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:34:30	0.04	0.04	45.0	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:34:45	0.03	0.02	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:35:00	0.06	0.01	45.2	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:35:15	0.01	0.00	45.5	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:35:30	0.01	-0.01	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:35:45	0.05	-0.01	45.4	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:36:00	0.02	-0.02	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:36:15	0.03	-0.02	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:36:30	0.02	-0.03	45.3	CC334442/cg7 CO 45.96 0 0 0
scg7	11/17/2013	17:36:45	0.02	-0.03	45.3	CC334442/cg7 CO 45.96 0 0 0
cospan1	11/17/2013	17:36:30	0.02	-0.03	45.3	CC334442/cg7 CO 45.96 0 0 0
so2zero	Parameter Not Found					
so2span	Parameter Not Found					
noxzero	Parameter Not Found					
noxspan	Parameter Not Found					
co2zero	Parameter Not Found					
co2span	Parameter Not Found					
o2zero	Parameter Not Found					
o2span	Parameter Not Found					
thczero	Parameter Not Found					
thcspan	Parameter Not Found					
cozero	Parameter Not Found					
cospan	Parameter Not Found					
so2zero	Parameter Not Found					
so2mid	Parameter Not Found					
so2high	Parameter Not Found					
noxzero	Parameter Not Found					
noxlow	Parameter Not Found					
noxmid	Parameter Not Found					
noxhigh	Parameter Not Found					
co2zero	Parameter Not Found					
co2mid	Parameter Not Found					
co2high	Parameter Not Found					
o2zero	Parameter Not Found					
o2mid	Parameter Not Found					
o2high	Parameter Not Found					
thczero	Parameter Not Found					
thclow	Parameter Not Found					
thcmid	Parameter Not Found					
thchigh	Parameter Not Found					
cozero	Parameter Not Found					
colow	Parameter Not Found					
comid	Parameter Not Found					
cohhigh	Parameter Not Found					
End						

Volumetric Flow RATAs

Traverse Point Data

Method 3A Data

Method 4 Data

High Load Flow

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METHOD 1 TRAVERSE POINT DATA

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

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Operating Level: H	Reference Method: 2	
Run Number: 1	Run Start Date/Time: 11/17/2013 1014	End Date/Time: 11/17/2013 1035

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Number of Traverse Points: 12	Mean Stack Temperature (F): 327.0
Barometric Pressure (in Hg): 29.86	Stack Static Pressure (in H2O): -0.68
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.1	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 23.4
Molecular Weight (Dry): 30.86	Molecular Weight (Wet): 27.85
Mean Sq. Roots of Diff. Pressure (in H2O): 0.957	
Run Velocity (ft/sec): 66.91	
Stack Flow (scfh): 18089550	Reference Method Value (scfh): 18090000

Trav.	Avg.				
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure (in H2O)	(F)	Coeff.
001	A	PT-22	1.000	326.0	0.840
002	A	PT-22	1.100	326.0	0.840
003	A	PT-22	0.880	327.0	0.840
004	B	PT-22	0.870	326.0	0.840
005	B	PT-22	0.960	327.0	0.840
006	B	PT-22	0.840	327.0	0.840
007	C	PT-22	0.890	327.0	0.840
008	C	PT-22	0.940	327.0	0.840
009	C	PT-22	0.830	328.0	0.840
010	D	PT-22	0.920	326.0	0.840
011	D	PT-22	0.940	328.0	0.840
012	D	PT-22	0.840	329.0	0.840

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RATA REPORT
METHOD 1 TRAVERSE POINT DATA

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ORIS Code:	000	Facility:	GAINESVILLE RENEWABLE ENERGY CENTER
City/State:	GAINESVILLE, FL	Company:	FAGEN
Unit/Stack ID:	1	System ID:	001
Test No.:	1	Start Date/Time:	11/17/2013 1014
Test Results:	Pass	Relative Accuracy:	5.22
		Parameter:	FLOW
		End Date/Time:	11/18/2013 1544
		BAF:	1.000

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Operating Level:	H	Reference Method:	2
Run Number:	2	Run Start Date/Time:	11/17/2013 1055
		End Date/Time:	11/17/2013 1116

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Number of Traverse Points:	12	Mean Stack Temperature (F):	330.8
Barometric Pressure (in Hg):	29.86	Stack Static Pressure (in H2O):	-0.68
Pressure Measurement Device:	Fluid Manometer		
Percent CO2 (Dry):	17.4	Percent O2 (Dry):	3.1
CO2/O2 Reference Method:	3A	Percent H2O:	21.3
Molecular Weight (Dry):	30.91	Molecular Weight (Wet):	28.16
Mean Sq. Roots of Diff. Pressure (in H2O):	0.946		
Run Velocity (ft/sec):	65.95		
Stack Flow (scfh):	17744217	Reference Method Value (scfh):	17744000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	0.930	331.0	0.840	
002	A	PT-22	0.970	331.0	0.840	
003	A	PT-22	0.850	331.0	0.840	
004	B	PT-22	0.840	330.0	0.840	
005	B	PT-22	0.860	330.0	0.840	
006	B	PT-22	0.740	330.0	0.840	
007	C	PT-22	0.870	330.0	0.840	
008	C	PT-22	0.920	330.0	0.840	
009	C	PT-22	0.820	330.0	0.840	
010	D	PT-22	1.000	332.0	0.840	
011	D	PT-22	1.100	332.0	0.840	
012	D	PT-22	0.870	332.0	0.840	

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ORIS Code:	000	Facility:	GAINESVILLE RENEWABLE ENERGY CENTER
City/State:	GAINESVILLE, FL	Company:	FAGEN
Unit/Stack ID:	1	System ID:	001
Test No.:	1	Start Date/Time:	11/17/2013 1014
Test Results:	Pass	Relative Accuracy:	5.22
		Parameter:	FLOW
		End Date/Time:	11/18/2013 1544
		BAF:	1.000

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Operating Level:	H	Reference Method:	2
Run Number:	3	Run Start Date/Time:	11/17/2013 1140
		End Date/Time:	11/17/2013 1201

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Number of Traverse Points:	12	Mean Stack Temperature (F):	331.8
Barometric Pressure (in Hg):	29.86	Stack Static Pressure (in H2O):	-0.68
Pressure Measurement Device:	Fluid Manometer		
Percent CO2 (Dry):	17.2	Percent O2 (Dry):	3.2
CO2/O2 Reference Method:	3A	Percent H2O:	22.8
Molecular Weight (Dry):	30.88	Molecular Weight (Wet):	27.94
Mean Sq. Roots of Diff. Pressure (in H2O):	0.977		
Run Velocity (ft/sec):	68.42		
Stack Flow (scfh):	18385626	Reference Method Value (scfh):	18386000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	1.100	332.0	0.840	
002	A	PT-22	1.100	332.0	0.840	
003	A	PT-22	0.910	332.0	0.840	
004	B	PT-22	0.850	333.0	0.840	
005	B	PT-22	1.000	333.0	0.840	
006	B	PT-22	0.830	333.0	0.840	
007	C	PT-22	0.890	331.0	0.840	
008	C	PT-22	0.880	331.0	0.840	
009	C	PT-22	0.860	331.0	0.840	
010	D	PT-22	1.000	331.0	0.840	
011	D	PT-22	1.100	331.0	0.840	
012	D	PT-22	0.970	331.0	0.840	

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

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Operating Level: H	Reference Method: 2	
Run Number: 4	Run Start Date/Time: 11/17/2013 1220	End Date/Time: 11/17/2013 1241

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Number of Traverse Points: 12	Mean Stack Temperature (F): 331.3
Barometric Pressure (in Hg): 29.89	Stack Static Pressure (in H2O): -0.68
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 21.8
Molecular Weight (Dry): 30.88	Molecular Weight (Wet): 28.07
Mean Sq. Roots of Diff. Pressure (in H2O): 0.991	
Run Velocity (ft/sec): 69.16	
Stack Flow (scfh): 18613905	Reference Method Value (scfh): 18614000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	1.100	331.0	0.840	
002	A	PT-22	1.100	331.0	0.840	
003	A	PT-22	0.970	331.0	0.840	
004	B	PT-22	0.840	332.0	0.840	
005	B	PT-22	0.910	332.0	0.840	
006	B	PT-22	0.850	333.0	0.840	
007	C	PT-22	0.890	329.0	0.840	
008	C	PT-22	0.990	330.0	0.840	
009	C	PT-22	0.870	330.0	0.840	
010	D	PT-22	1.100	331.0	0.840	
011	D	PT-22	1.200	332.0	0.840	
012	D	PT-22	1.000	333.0	0.840	

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

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Operating Level: H	Reference Method: 2	
Run Number: 5	Run Start Date/Time: 11/17/2013 1300	End Date/Time: 11/17/2013 1321

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 332.5
Barometric Pressure (in Hg): 29.89	Stack Static Pressure (in H2O): -0.68
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 22.1
Molecular Weight (Dry): 30.88	Molecular Weight (Wet): 28.03
Mean Sq. Roots of Diff. Pressure (in H2O): 1.000	
Run Velocity (ft/sec): 69.89	
Stack Flow (scfh): 18782825	Reference Method Value (scfh): 18783000

Trav.	Avg.				
Point	Port	Probe	Diff. Pressure	Stack Temp.	Probe Cp
ID	ID	ID	(in H2O)	(F)	Coeff.
001	A	PT-22	1.100	332.0	0.840
002	A	PT-22	1.200	332.0	0.840
003	A	PT-22	0.970	332.0	0.840
004	B	PT-22	0.980	333.0	0.840
005	B	PT-22	1.000	333.0	0.840
006	B	PT-22	0.940	333.0	0.840
007	C	PT-22	0.840	332.0	0.840
008	C	PT-22	0.920	332.0	0.840
009	C	PT-22	0.830	332.0	0.840
010	D	PT-22	0.960	333.0	0.840
011	D	PT-22	1.200	333.0	0.840
012	D	PT-22	1.100	333.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: H	Reference Method: 2	
Run Number: 6	Run Start Date/Time: 11/17/2013 1351	End Date/Time: 11/17/2013 1412

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 331.3
Barometric Pressure (in Hg): 29.86	Stack Static Pressure (in H2O): -0.68
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 22.8
Molecular Weight (Dry): 30.88	Molecular Weight (Wet): 27.94
Mean Sq. Roots of Diff. Pressure (in H2O): 0.973	
Run Velocity (ft/sec): 68.09	
Stack Flow (scfh): 18307587	Reference Method Value (scfh): 18308000

Trav.	Avg.				
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure (in H2O)	(F)	Coeff.
001	A	PT-22	0.950	329.0	0.840
002	A	PT-22	1.100	329.0	0.840
003	A	PT-22	0.980	329.0	0.840
004	B	PT-22	0.880	333.0	0.840
005	B	PT-22	0.920	333.0	0.840
006	B	PT-22	0.800	333.0	0.840
007	C	PT-22	0.910	330.0	0.840
008	C	PT-22	0.970	330.0	0.840
009	C	PT-22	0.840	330.0	0.840
010	D	PT-22	0.930	333.0	0.840
011	D	PT-22	1.100	333.0	0.840
012	D	PT-22	1.000	333.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: H	Reference Method: 2	
Run Number: 7 (Not Used)	Run Start Date/Time: 11/17/2013 1430	End Date/Time: 11/17/2013 1451

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 331.5
Barometric Pressure (in Hg): 29.86	Stack Static Pressure (in H2O): -0.68
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 21.4
Molecular Weight (Dry): 30.88	Molecular Weight (Wet): 28.12
Mean Sq. Roots of Diff. Pressure (in H2O): 0.878	
Run Velocity (ft/sec): 61.28	
Stack Flow (scfh): 16473570	Reference Method Value (scfh): 16474000

Trav.	Avg.				
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure (in H2O)	(F)	Coeff.
001	A	PT-22	0.840	331.0	0.840
002	A	PT-22	0.880	331.0	0.840
003	A	PT-22	0.750	331.0	0.840
004	B	PT-22	0.680	332.0	0.840
005	B	PT-22	0.730	332.0	0.840
006	B	PT-22	0.730	332.0	0.840
007	C	PT-22	0.690	331.0	0.840
008	C	PT-22	0.750	331.0	0.840
009	C	PT-22	0.660	331.0	0.840
010	D	PT-22	0.840	332.0	0.840
011	D	PT-22	0.880	332.0	0.840
012	D	PT-22	0.850	332.0	0.840

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ORIS Code:	000	Facility:	GAINESVILLE RENEWABLE ENERGY CENTER
City/State:	GAINESVILLE, FL	Company:	FAGEN
Unit/Stack ID:	1	System ID:	001
Test No.:	1	Start Date/Time:	11/17/2013 1014
Test Results:	Pass	Relative Accuracy:	5.22
		Parameter:	FLOW
		End Date/Time:	11/18/2013 1544
		BAF:	1.000

=====

Operating Level:	H	Reference Method:	2
Run Number:	8	Run Start Date/Time:	11/17/2013 1511
		End Date/Time:	11/17/2013 1532

=====

Number of Traverse Points:	12	Mean Stack Temperature (F):	333.5
Barometric Pressure (in Hg):	29.86	Stack Static Pressure (in H2O):	-0.68
Pressure Measurement Device:	Fluid Manometer		
Percent CO2 (Dry):	17.2	Percent O2 (Dry):	3.2
CO2/O2 Reference Method:	3A	Percent H2O:	22.7
Molecular Weight (Dry):	30.88	Molecular Weight (Wet):	27.96
Mean Sq. Roots of Diff. Pressure (in H2O):	0.981		
Run Velocity (ft/sec):	68.76		
Stack Flow (scfh):	18437601	Reference Method Value (scfh):	18438000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	1.000	334.0	0.840	
002	A	PT-22	1.000	334.0	0.840	
003	A	PT-22	0.930	334.0	0.840	
004	B	PT-22	0.890	334.0	0.840	
005	B	PT-22	0.920	334.0	0.840	
006	B	PT-22	0.760	334.0	0.840	
007	C	PT-22	0.930	332.0	0.840	
008	C	PT-22	0.950	332.0	0.840	
009	C	PT-22	0.910	332.0	0.840	
010	D	PT-22	1.100	334.0	0.840	
011	D	PT-22	1.200	334.0	0.840	
012	D	PT-22	1.000	334.0	0.840	

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: H	Reference Method: 2	
Run Number: 9	Run Start Date/Time: 11/17/2013 1551	End Date/Time: 11/17/2013 1612

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 332.8
Barometric Pressure (in Hg): 29.86	Stack Static Pressure (in H2O): -0.68
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 21.7
Molecular Weight (Dry): 30.88	Molecular Weight (Wet): 28.09
Mean Sq. Roots of Diff. Pressure (in H2O): 0.978	
Run Velocity (ft/sec): 68.35	
Stack Flow (scfh): 18344714	Reference Method Value (scfh): 18345000

Trav.	Avg.				
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure (in H2O)	(F)	Coeff.
001	A	PT-22	1.100	333.0	0.840
002	A	PT-22	1.100	333.0	0.840
003	A	PT-22	0.860	333.0	0.840
004	B	PT-22	0.880	333.0	0.840
005	B	PT-22	0.950	333.0	0.840
006	B	PT-22	0.890	333.0	0.840
007	C	PT-22	0.890	332.0	0.840
008	C	PT-22	0.970	332.0	0.840
009	C	PT-22	0.810	332.0	0.840
010	D	PT-22	1.000	333.0	0.840
011	D	PT-22	1.100	333.0	0.840
012	D	PT-22	0.960	333.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: H	Reference Method: 2	
Run Number: 10	Run Start Date/Time: 11/17/2013 1703	End Date/Time: 11/17/2013 1724

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 332.7
Barometric Pressure (in Hg): 29.86	Stack Static Pressure (in H2O): -0.68
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 22.3
Molecular Weight (Dry): 30.88	Molecular Weight (Wet): 28.01
Mean Sq. Roots of Diff. Pressure (in H2O): 0.995	
Run Velocity (ft/sec): 69.62	
Stack Flow (scfh): 18685968	Reference Method Value (scfh): 18686000

Trav.	Avg.				
Point	Port	Probe	Diff. Pressure	Stack Temp.	Probe Cp
ID	ID	ID	(in H2O)	(F)	Coeff.
001	A	PT-22	1.100	331.0	0.840
002	A	PT-22	1.100	332.0	0.840
003	A	PT-22	0.920	332.0	0.840
004	B	PT-22	0.950	333.0	0.840
005	B	PT-22	0.960	333.0	0.840
006	B	PT-22	0.850	333.0	0.840
007	C	PT-22	0.980	334.0	0.840
008	C	PT-22	0.960	334.0	0.840
009	C	PT-22	0.890	334.0	0.840
010	D	PT-22	1.100	332.0	0.840
011	D	PT-22	1.200	332.0	0.840
012	D	PT-22	0.900	332.0	0.840

Company:	<u>Greco Fugate</u>	Pitot ID:	<u>PE-22</u>
Facility:	<u>Greco</u>	Pitot Cp:	<u>0.84</u>
Unit No.:	<u>1</u>	Stack Area:	<u>112.31</u>
Sample Location:	<u>stack</u>	Traverse Points:	<u>12</u>
Operator(s):	<u>MS/AA</u>		
Date:	<u>11/12/13</u>	Bar. Press. (in Hg):	<u>29.86</u>
Operating Level:	<u>Base</u>	Static Press. (in H ₂ O):	<u>-0.68</u>
Run Number:	<u>1</u>	% CO ₂ :	<u>17.2</u>
		% O ₂ :	<u>3.1</u>
Run Start Time:	<u>1014</u>	% Moisture:	<u>23.41</u>
Run Stop Time:	<u>1034</u>		
		Initial Pitot Leak Check:	<u>0.00 @ 3.6</u>
		Final Pitot Leak Check:	<u>0.00 @ 3.9</u>

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fugen
Facility: Greel
Unit No.: 1
Sample Location: stack
Operator(s): ms/HH
Date: 11/17/13
Operating Level: Base
Run Number: 2
Run Start Time: 1055
Run Stop Time: 1116

Pitot ID:	PT-22
Pitot C _p :	0.84
Stack Area:	112-31
Traverse Points:	12
Bar. Press. (in Hg):	29.86
Water Press. (in H ₂ O):	-0.68
% CO ₂ :	~~15~~ 17.4
% O ₂ :	~~20.5~~ 3.1
% Moisture:	21.26%
Pitot Leak Check:	0.00 @ 3.9
Pitot Leak Check:	0.00 @ 4.1

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Oriz
Unit No.: 1
Sample Location: Stack
Operator(s): MS/ATH

Date: 11/17/13
Operating Level: Base
Run Number: 3

Run Start Time: 1140
Run Stop Time: 1201

Pitot ID: PT-22
Pitot Cp: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.84
Static Press. (in H₂O): -0.68

% CO₂: 17.2

% O₂: 3.2

% Moisture: 22.8%

Initial Pitot Leak Check: 0.00 @ 4.1
Final Pitot Leak Check: 0.00 @ 4.3

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fayon
Facility: Grec
Unit No.: 1
Sample Location: stack
Operator(s): ms/AT

Date: 11/21/13
Operating Level: Base
Run Number: 4

Run Start Time: 1220
Run Stop Time: 1241

Pitot ID:	PT-22
Pitot Cp:	0.84
Stack Area:	112.31
Traverse Points:	12
Bar. Press. (in Hg):	29.89
Water Press. (in H ₂ O):	-0.68
% CO ₂ :	17.2
% O ₂ :	3.2
% Moisture:	21.8
Pitot Leak Check:	0.00 @ 4.3
Pitot Leak Check:	0.00 @ 3.2

Velocity and Volumetric Stack Flow Field Data

[illegible]

Pitot ID: PT-22
Pitot Cp: 0.84
Stack Area: 112.31
Traverse Points: 12

Date: 11/17/13
Operating Level: Base
Run Number: 5

Bar. Press. (in Hg): 29.89
Static Press. (in H₂O): -0.68

Run Start Time: 1300
Run Stop Time: 1321

% CO₂: 17.2

% O₂: 3.2

% Moisture: 22.1

Initial Pitot Leak Check: 0.00 @ 3.2
Final Pitot Leak Check: 0.00 @ 4.10

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: GREL
Unit No.: 1
Sample Location: Stock
Operator(s): MS/AH

Date: 11/17/13
Operating Level: Base
Run Number: 6

Run Start Time: 1351
Run Stop Time: 1412

Pitot ID: PT-22
Pitot Cp: 0.84
Stack Area: ~~124~~ 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.89
Static Press. (in H₂O): -0.68

% CO₂: 17.2
 % O₂: 3.2
 % Moisture: 22.83

Initial Pitot Leak Check: 0.00 @ 4.6
Final Pitot Leak Check: 0.00 @ 3.9

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Gravel
Unit No.: 1
Sample Location: Stack
Operator(s): US/HT
Date: 11/17/13
Operating Level: Base
Run Number: 7
Run Start Time: 1430
Run Stop Time: 1457

Pitot ID:	PT-22
Pitot Cp:	0.84
Stack Area:	112.31
Traverse Points:	12
Bar. Press. (in Hg):	29.89
W. Press. (in H ₂ O):	~~18.06~~ - 0.68
% CO ₂ :	17.2
% O ₂ :	3.2
% Moisture:	21.44
Pitot Leak Check:	0.00 @ 3.9
Pitot Leak Check:	0.00 @ 3.1

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: OREC
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH
Date: 11/17/13
Operating Level: Base
Run Number: 8
Run Start Time: 1511
Run Stop Time: 1532

Pitot ID:	PT-22
Pitot Cp:	0.84
Stack Area:	112.31
Traverse Points:	12
Bar. Press. (in Hg):	29.89
Water Press. (in H ₂ O):	-0.68
% CO ₂ :	17.2
% O ₂ :	3.2
% Moisture:	22.66
Pitot Leak Check:	0.02 @ 3.1
Pitot Leak Check:	0.00 @ 3.6

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Gree
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH
Date: 11/17/13
Operating Level: Base
Run Number: 9
Run Start Time: 1551
Run Stop Time: 1612

Pitot ID:	PT-22
Pitot Cp:	0.84
Stack Area:	112.31
Traverse Points:	12
Bar. Press. (in Hg):	29.89
Water Press. (in H ₂ O):	-0.60
% CO ₂ :	17.2
% O ₂ :	3.2
% Moisture:	21.7
Pitot Leak Check:	0.00 @ 5.0
Pitot Leak Check:	0.00 @ 3.5

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: GREC
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH
Date: 11/17/13
Operating Level: Base
Run Number: 10
Run Start Time: 1703
Run Stop Time: 1724

Pitot ID:	PT-22
Pitot C _P :	0.84
Stack Area:	112.31
Traverse Points:	12
Bar. Press. (in Hg):	29.89
Water Press. (in H ₂ O):	-0.68
% CO ₂ :	17.2
% O ₂ :	3.2%
% Moisture:	22.3%
Pitot Leak Check:	0.00 @ 3.5
Pitot Leak Check:	0.00 @ 3.9

Velocity and Volumetric Stack Flow Field Data

[illegible]

Scfh: 18685968

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.86</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-0.68</u>	Run Number: <u>1</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>21</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.003 @ 10</u>	Load Level: <u>High</u>
Date: <u>11/17/2013</u>	Fin. Leak Rate: <u>0.001 @ 7</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	10:14	0	232.444	1.80	72.0	3.0	57
2	10:21	7	237.700	1.80	72.0	3.0	58
3	10:28	14	242.900	1.80	73.0	3.0	64
End	10:35	21	248.133				

Averages:	2	72	3.0	60
Volume Collected: 15.689				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	546.5	678.6	613.2	932.7
Final Weight	618.0	691.2	619.1	940.9
Weight Gain:	71.5	12.6	5.9	8.2

Total Weight Gain: 98.2

Water Vapor V _{wc(std)} :	4.24
Silica Gel Water Vapor V _{wsg(std)} :	0.39
GAS SAMPLED (DSCF) V _{m(std)} :	15.15
MOISTURE(% VOL) B _{ws} :	23.41

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: Fagen
 Facility: GREC
 Unit No.: 1
 Sample Location: Stack
 Date: 11/17/2013

Bar. Press (in Hg): 29.86
 Static Press (in H2O): -0.68
 Meter Box Number: CEMS7MB
 Ini. Leak Rate: 0.000 @ 8
 Fin. Leak Rate: 0.000 @ 8

Meter Y_i: 0.976
 Run Number: 2
 Run Duration (min): 21
 Load Level: High

Point	Clock Time	Sample Time	Volume (ft3)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	10:55	0	248.328	1.80	75	3.0	53
2	11:02	7	253.500	1.80	76	3.0	55
3	11:09	14	258.800	1.80	78	3.0	58
End	11:16	21	264.137				

Averages:

1.80	76	3.0	55

 Volume Collected: 15.809

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	618.0	691.2	619.1	940.9
Final Weight	695.5	698.3	619.3	942.9
Weight Gain:	77.5	7.1	0.2	2.0

Total Weight Gain: 86.8

Water Vapor V_{wc(std)}: 4.00
 Silica Gel Water Vapor V_{wsg(std)}: 0.09
 GAS SAMPLED (DSCF) V_{m(std)}: 15.15
 MOISTURE(% VOL) B_{ws}: 21.26

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.86</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-0.68</u>	Run Number: <u>3</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>21</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.000 @ 7</u>	Load Level: <u>High</u>
Date: <u>11/17/2013</u>	Fin. Leak Rate: <u>0.000 @ 7</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	11:40	0	264.765	1.80	79	3.0	55
2	11:47	7	270.100	1.80	80	3.0	56
3	11:54	14	275.400	1.80	80	3.0	57
End	12:01	21	280.773				

Averages:	1.80	80	3.0	56
Volume Collected: 16.008				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	695.5	698.3	619.3	942.9
Final Weight	773.3	707.0	621.6	949.6
Weight Gain:	77.8	8.7	2.3	6.7

Total Weight Gain: 95.5

Water Vapor V _{wc(std)} :	4.19
Silica Gel Water Vapor V _{wsg(std)} :	0.32
GAS SAMPLED (DSCF) V _{m(std)} :	15.25
MOISTURE(% VOL) B _{ws} :	22.80

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: Fagen
 Facility: GREC
 Unit No.: 1
 Sample Location: Stack
 Date: 11/17/2013

Bar. Press (in Hg): 29.86
 Static Press (in H2O): -0.68
 Meter Box Number: CEMS7MB
 Ini. Leak Rate: 0.000 @ 9
 Fin. Leak Rate: 0.000 @ 7

Meter Y_i: 0.976
 Run Number: 4
 Run Duration (min): 21
 Load Level: High

Point	Clock Time	Sample Time	Volume (ft3)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	12:20	0	280.892	1.80	79	3.0	57
2	12:27	7	285.900	1.80	80	3.0	57
3	12:34	14	291.000	1.80	80	3.0	57
End	12:41	21	296.718				

Averages:

1.80	80	3.0	57

 Volume Collected: 15.826

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	773.3	707.0	621.6	949.6
Final Weight	850.4	716.5	621.9	951.9
Weight Gain:	77.1	9.5	0.3	2.3

Total Weight Gain: 89.2

Water Vapor V_{wc(std)}: 4.10
 Silica Gel Water Vapor V_{wsg(std)}: 0.11
 GAS SAMPLED (DSCF) V_{m(std)}: 15.08
 MOISTURE(% VOL) B_{ws}: 21.81

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.86</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-0.68</u>	Run Number: <u>5</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>21</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.000 @ 8</u>	Load Level: <u>High</u>
Date: <u>11/17/2013</u>	Fin. Leak Rate: <u>0.000 @ 7</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	13:00	0	296.879	1.80	78	3.0	60
2	13:07	7	302.300	1.80	79	3.0	55
3	13:14	14	307.600	1.80	79	3.0	62
End	13:21	21	312.850				

Averages:	1.80	79	3.0	59
Volume Collected: 15.971				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	558.1	716.5	621.9	883.1
Final Weight	634.6	726.2	623.1	887.4
Weight Gain:	76.5	9.7	1.2	4.3

Total Weight Gain: 91.7

Water Vapor V _{wc(std)} :	4.12
Silica Gel Water Vapor V _{wsg(std)} :	0.20
GAS SAMPLED (DSCF) V _{m(std)} :	15.24
MOISTURE(% VOL) B _{ws} :	22.10

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.86</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-0.68</u>	Run Number: <u>6</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>21</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.000 @ 6</u>	Load Level: <u>High</u>
Date: <u>11/17/2013</u>	Fin. Leak Rate: <u>0.000 @ 8</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	13:51	0	312.957	1.80	79	3.0	60
2	13:58	7	318.100	1.80	80	3.0	57
3	14:05	14	323.500	1.80	80	3.0	57
End	14:12	21	328.749				

Averages:	1.80	80	3.0	58
Volume Collected: 15.792				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	634.6	726.2	623.1	887.4
Final Weight	711.5	735.2	625.4	893.6
Weight Gain:	76.9	9.0	2.3	6.2

Total Weight Gain: 94.4

Water Vapor V _{wc(std)} :	4.16
Silica Gel Water Vapor V _{wsg(std)} :	0.29
GAS SAMPLED (DSCF) V _{m(std)} :	15.04
MOISTURE(% VOL) B _{ws} :	22.83

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.86</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-0.68</u>	Run Number: <u>7</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>21</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: _____	Load Level: <u>High</u>
Date: <u>11/17/2013</u>	Fin. Leak Rate: _____	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	14:30	0	328.852	1.80	80	3.0	66
2	14:37	7	334.200	1.80	81	3.0	60
3	14:44	14	339.700	1.80	81	3.0	63
End	14:51	21	344.766				

Averages:	1.80	81	3.0	63
Volume Collected: 15.914				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	711.5	735.2	625.4	893.6
Final Weight	787.9	743.1	625.3	897.0
Weight Gain:	76.4	7.9	-0.1	3.4

Total Weight Gain: 87.6

Water Vapor V _{wc(std)} :	3.97
Silica Gel Water Vapor V _{wsg(std)} :	0.16
GAS SAMPLED (DSCF) V _{m(std)} :	15.13
MOISTURE(% VOL) B _{ws} :	21.44

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.86</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-0.68</u>	Run Number: <u>8</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>21</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.000 @ 8</u>	Load Level: <u>High</u>
Date: <u>11/17/2013</u>	Fin. Leak Rate: <u>0.000 @ 6</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	15:11	0	345.010	1.80	79	3.0	63
2	15:18	7	350.400	1.80	81	3.0	58
3	15:25	14	356.400	1.80	82	3.0	58
End	15:32	21	360.916				

Averages:	1.80	81	3.0	60
Volume Collected: 15.906				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	550.2	743.1	625.3	897.0
Final Weight	625.1	755.2	626.8	902.5
Weight Gain:	74.9	12.1	1.5	5.5

Total Weight Gain: 94.0

Water Vapor V _{wc(std)} :	4.17
Silica Gel Water Vapor V _{wsg(std)} :	0.26
GAS SAMPLED (DSCF) V _{m(std)} :	15.12
MOISTURE(% VOL) B _{ws} :	22.66

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.86</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-0.68</u>	Run Number: <u>9</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>21</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.000 @ 6</u>	Load Level: <u>High</u>
Date: <u>11/17/2013</u>	Fin. Leak Rate: <u>0.000 @ 7</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	15:51	0	361.012	1.80	82	3.0	57
2	15:58	7	366.200	1.80	83	3.0	57
3	16:05	14	371.400	1.80	84	3.0	57
End	16:12	21	376.749				

Averages:	1.80	83	3.0	57
Volume Collected: 15.737				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	625.1	755.2	626.8	902.5
Final Weight	699.0	764.9	627.4	905.7
Weight Gain:	73.9	9.7	0.6	3.2

Total Weight Gain: 87.4

Water Vapor V _{wc(std)} :	3.97
Silica Gel Water Vapor V _{wsg(std)} :	0.15
GAS SAMPLED (DSCF) V _{m(std)} :	14.90
MOISTURE(% VOL) B _{ws} :	21.67

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.86</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-0.68</u>	Run Number: <u>10</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>21</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>.001 @ 12</u>	Load Level: <u>High</u>
Date: <u>11/17/2013</u>	Fin. Leak Rate: <u>.000 @ 6</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	17:03	0	377.286	1.80	83	3.0	60
2	17:10	7	382.600	1.80	83	3.0	55
3	17:17	14	387.800	1.80	83	3.0	61
End	17:24	21	392.906				

Averages:	1.80	83	3.0	59
Volume Collected: 15.620				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	699.0	764.9	627.4	905.7
Final Weight	775.2	773.1	628.9	910.0
Weight Gain:	76.2	8.2	1.5	4.3

Total Weight Gain: 90.2

Water Vapor V _{wc(std)} :	4.05
Silica Gel Water Vapor V _{wsg(std)} :	0.20
GAS SAMPLED (DSCF) V _{m(std)} :	14.79
MOISTURE(% VOL) B _{ws} :	22.34

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.80 Meter Y_i: 0.976
 Facility: GRCC Static Press (in H₂O): -0.68 Run Number: 1
 Unit No.: 1 Meter Box Number: CEMS 7MB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.003 @ 10 Load Level: Base conc High
 Date: 11/17/13 Fin. Leak Rate: 0.001 @ 7

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	~~1014~~ 1014	0	232.444	1.8	72	3	57
2	1021	7	237.7	1.8	72	3	58 ⁵⁸
3	1028	14	242.9	1.8	73	3	64
End	1035	21	248.133				

Averages:

1.8	72	3	59.7

Volume Collected: 15.689

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	546.5	678.6	613.2	932.7
Final Weight	618.0	691.2	619.1	940.9
Weight Gain:	71.5	12.6	5.9	8.2

Total Weight Gain: 98.2

23.41 % _{5ms}

Train Prepared by: C. Horton
 Train Recovered by: [Signature]

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 30.29.86 Meter Yi: 0.976
 Facility: WOL Static Press (in H2O): -0.68 Run Number: 2
 Unit No.: 1 Meter Box Number: CEAL5 FMB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 8 Load Level: Base
 Date: 11/17/13 Fin. Leak Rate: 0.000 @ 8

Point	Clock Time	Sample Time	Meter Volume (ft3)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1055	0	248.328	1.8	75	3	53
2	1102	7	253.5	1.8	76	3	55
3	1109	14	258.8	1.8	78	3	58
End	1116	21	264.137				

Averages:

1.8	76.3	3	55.3

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	618.0	691.2	619.1	946.9
Final Weight	695.5	698.3	619.3	942.9
Weight Gain:	77.5	7.1	0.2	~~86.8~~ 2.0

Total Weight Gain: 86.8

Train Prepared by: HH
 Train Recovered by: HH

21.26 % Bv

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.86 Meter Y: 0.976
 Facility: GRCL Static Press (in H2O): -0.48 Run Number: 3
 Unit No.: 1 Meter Box Number: CEMS7MB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 7 Load Level: Base
 Date: 11/17/13 Fin. Leak Rate: 0.000 @ 7

Point	Clock Time	Sample Time	Meter Volume (ft3)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1140	0	264.745 ~~264.713~~	1.8	79	3	55
2	1147	7	270.1	1.8	80	3	56
3	1154	14	275.4	1.8	80	3	57
End	1201	21	280.773				

Averages:

1.8	80	3	56

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	695.5	698.3	619.3	942.9
Final Weight	773.3	707.0	621.6	949.6
Weight Gain:	77.8	8.7	2.3	6.7

Total Weight Gain: 95.5

Train Prepared by: [Signature]
 Train Recovered by: [Signature]

22.8% DS

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.89 Meter Y: 0.976
 Facility: GREC Static Press (in H2O): -0.68 Run Number: 4
 Unit No.: 1 Meter Box Number: CEMS 7 MB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 9 Load Level: Base
 Date: 11/17/13 Fin. Leak Rate: 0.000 @ 7

Point	~~Clock~~ Time	Sample Time	Meter Volume (ft3)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	<u>1220</u>	<u>0</u>	<u>280.892</u>	<u>1.8</u>	<u>57.79</u>	<u>3</u>	<u>57</u>
2	<u>1227</u>	<u>7</u>	<u>285.9</u>	<u>1.8</u>	<u>80</u>	<u>3</u>	<u>57</u>
3	<u>1234</u>	<u>14</u>	<u>291.0</u>	<u>1.8</u>	<u>80</u>	<u>3</u>	<u>57</u>
End	<u>1241</u>	<u>21</u>	<u>296.718</u>				

Averages:

<u>1.8</u>	<u>80</u>	<u>3</u>	<u>57</u>

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	<u>773.3</u>	<u>707.0</u>	<u>621.6</u>	<u>949.6</u>
Final Weight	<u>850.4</u>	<u>716.5</u>	<u>621.9</u>	<u>951.9</u>
Weight Gain:	<u>77.1</u>	<u>9.5</u>	<u>0.3</u>	<u>2.3</u>

Total Weight Gain: 89.2

Train Prepared by: [Signature]
 Train Recovered by: [Signature]

21.81 % Bm

C.E.M. Solutions, Inc. Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.89 Meter Y_i: 0.776
 Facility: GREC Static Press (in H₂O): -0.68 Run Number: 5
 Unit No.: 1 Meter Box Number: CENS 7MB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 8 Load Level: Base
 Date: 11/17/13 Fin. Leak Rate: 0.000 @ 7

Point	CEM Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1300	0	296.879	1.8	78	3	60
2	1307	7	302.3	1.8	79	3	55
3	1314	14	307.6	1.8	79	3	62
End	1321	21	312.850				

Averages:

1.8	79	3	59

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	558.1	716.5	621.9	883.1
Final Weight	634.6	726.2	623.1	887.4
Weight Gain:	76.5	9.7	1.2	4.3

Total Weight Gain: 91.7

Train Prepared by: [Signature]
 Train Recovered by: [Signature]

22.1 to 13

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.89 Meter Yi: 0.976
 Facility: GREC Static Press (in H2O): -0.68 Run Number: 6
 Unit No.: 1 Meter Box Number: CEMS7MB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.000 @ CP Load Level: Base
 Date: 11/17/13 Fin. Leak Rate: 0.000 @ 8

Point	CEM Clock Time	Sample Time	Meter Volume (ft3)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1351	0	312.957	1.8	79	3	60
2	1358	7	318.1	1.8	80	3	57
3	1405	14	323.5	1.8	80	3	57
End	1412	21	328.749				

Averages:

1.8	80	3	58

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	634.6	726.2	623.1	887.4
Final Weight	711.5	735.2	625.4	893.4
Weight Gain:	76.9	9.0	2.3	6.2

Total Weight Gain: 94.4

Train Prepared by: MS
 Train Recovered by: MS

22.83 % SO₂

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.89 Meter Yi: 0.976
 Facility: BREC Static Press (in H₂O): -1.68 Run Number: 7
 Unit No.: 1 Meter Box Number: CEMS7HB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.001 @ 7 Load Level: Base
 Date: 11/12/13 Fin. Leak Rate: 0.000 @ 10

Point	CEM Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1430	0	328.852	1.8	80	3	66
2	1437	7	334.2	1.8	81	3	60
3	1444	14	339.7	1.8	81	3	63
End	1451	21	344.766				

Averages:

1.8	81	3	63

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	711.5	735.2	625.4	893.6
Final Weight	787.9	743.1	628.3	897.0
Weight Gain:	76.4	7.9	2.9	3.4

Total Weight Gain: 87.6

Train Prepared by: MS
 Train Recovered by: MS

21.44% BS

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.89 Meter Yi: 0.976
 Facility: BREC Static Press (in H2O): -0.68 Run Number: 8
 Unit No.: 1 Meter Box Number: CEMS FMB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 8 Load Level: Base
 Date: 11/17/13 Fin. Leak Rate: 0.000 @ 6

Point	CEMS Clock Time	Sample Time	Meter Volume (ft3)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1511	0	345.010	1.8	79	3	63
2	1518	7	350.4	1.8	81	3	58
3	1525	14	356.4	1.8	82	3	58
End	1532	21	360.916				

Averages:

1.8	81	3	60

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	550.2	743.1	625.3	897.0
Final Weight	625.1	755.2	626.8	902.5
Weight Gain:	74.9	12.1	1.5	5.5

Total Weight Gain: 94

Train Prepared by: [Signature]
 Train Recovered by: [Signature]

22.66 % SO_2

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagan Bar. Press (in Hg): 29.89 Meter Y: 0.976
 Facility: GREC Static Press (in H2O): -0.68 Run Number: 9
 Unit No.: 1 Meter Box Number: CEMS 7MB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 6 Load Level: Base
 Date: 11/17/13 Fin. Leak Rate: 0.000 @ 7

Point	CEMS Clock Time	Sample Time	Meter Volume (ft3)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1551	0	361.012	1.8	82	3	57
2	1558	7	366.2	1.8	83	3	57
3	1605	14	371.4	1.8	84	3	57
End	1612	21	376.749				

Averages:

1.8	83	3	57

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	625.1	755.2	626.8	902.5
Final Weight	699.0	764.9	627.4	905.7
Weight Gain:	73.9	9.7	0.6	3.2

21.67% *Tr*

Total Weight Gain: 87.4

Train Prepared by: *MS*
 Train Recovered by: *MS*

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.89 Meter Y: 0.976
 Facility: GREC Static Press (in H₂O): -0.68 Run Number: 10
 Unit No.: 1 Meter Box Number: CENS 7MB Run Duration (min): 21
 Sample Location: Stack Ini. Leak Rate: 0.001 @ 12 Load Level: Base
 Date: 11/17/13 Fin. Leak Rate: 0.000 @ 10

Point	CENS Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1703	0	377.286	1.8	83	3	60
2	1710	7	382.6	1.8	83	3	55
3	1717	14	387.8	1.8	83	3	61
End	1724	21	392.986				

Averages:

1.8	83	3.0	59

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	699.0	764.9	627.4	905.7
Final Weight	775.2	773.1	628.9	910.0
Weight Gain:	76.2	8.2	1.5	4.3

Total Weight Gain: 90.2

Train Prepared by: MS
 Train Recovered by: MS

22.34
BWS

Mid Load Flow

FLOW-CALC V1.02
RATA REPORT
METHOD 1 TRAVERSE POINT DATA

11/18/2013
PAGE 14

ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 1	Run Start Date/Time: 11/18/2013 0850	End Date/Time: 11/18/2013 0858

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 329.5
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.3	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 21.9
Molecular Weight (Dry): 30.90	Molecular Weight (Wet): 28.07
Mean Sq. Roots of Diff. Pressure (in H2O): 0.875	
Run Velocity (ft/sec): 61.14	
Stack Flow (scfh): 16424184	Reference Method Value (scfh): 16424000

Trav.	Avg.				
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure (in H2O)	(F)	Coeff.
001	A	PT-22	0.830	328.0	0.840
002	A	PT-22	0.850	328.0	0.840
003	A	PT-22	0.760	328.0	0.840
004	B	PT-22	0.720	330.0	0.840
005	B	PT-22	0.750	330.0	0.840
006	B	PT-22	0.640	330.0	0.840
007	C	PT-22	0.750	329.0	0.840
008	C	PT-22	0.790	329.0	0.840
009	C	PT-22	0.640	329.0	0.840
010	D	PT-22	0.840	331.0	0.840
011	D	PT-22	0.840	331.0	0.840
012	D	PT-22	0.800	331.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 2	Run Start Date/Time: 11/18/2013 0900	End Date/Time: 11/18/2013 0906

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.9
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.3	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 21.9
Molecular Weight (Dry): 30.90	Molecular Weight (Wet): 28.07
Mean Sq. Roots of Diff. Pressure (in H2O): 0.881	
Run Velocity (ft/sec): 61.63	
Stack Flow (scfh): 16527813	Reference Method Value (scfh): 16528000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	0.820	331.0	0.840	
002	A	PT-22	0.890	331.0	0.840	
003	A	PT-22	0.770	331.0	0.840	
004	B	PT-22	0.790	331.0	0.840	
005	B	PT-22	0.770	331.0	0.840	
006	B	PT-22	0.660	331.0	0.840	
007	C	PT-22	0.750	330.0	0.840	
008	C	PT-22	0.800	331.0	0.840	
009	C	PT-22	0.670	331.0	0.840	
010	D	PT-22	0.850	331.0	0.840	
011	D	PT-22	0.830	331.0	0.840	
012	D	PT-22	0.740	331.0	0.840	

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 3	Run Start Date/Time: 11/18/2013 0907	End Date/Time: 11/18/2013 0914

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.8
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.3	Percent O2 (Dry): 3.2
CO2/O2 Reference Method: 3A	Percent H2O: 21.9
Molecular Weight (Dry): 30.90	Molecular Weight (Wet): 28.07
Mean Sq. Roots of Diff. Pressure (in H2O): 0.884	
Run Velocity (ft/sec): 61.83	
Stack Flow (scfh): 16583217	Reference Method Value (scfh): 16583000

Trav.	Avg.				
Point	Port	Probe	Diff. Pressure	Stack Temp.	Probe Cp
ID	ID	ID	(in H2O)	(F)	Coeff.
001	A	PT-22	0.870	331.0	0.840
002	A	PT-22	0.830	331.0	0.840
003	A	PT-22	0.700	331.0	0.840
004	B	PT-22	0.750	331.0	0.840
005	B	PT-22	0.800	331.0	0.840
006	B	PT-22	0.700	331.0	0.840
007	C	PT-22	0.760	331.0	0.840
008	C	PT-22	0.780	331.0	0.840
009	C	PT-22	0.700	331.0	0.840
010	D	PT-22	0.860	330.0	0.840
011	D	PT-22	0.890	330.0	0.840
012	D	PT-22	0.760	330.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 4	Run Start Date/Time: 11/18/2013 0943	End Date/Time: 11/18/2013 0949

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.8
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.3	Percent O2 (Dry): 3.3
CO2/O2 Reference Method: 3A	Percent H2O: 22.1
Molecular Weight (Dry): 30.90	Molecular Weight (Wet): 28.05
Mean Sq. Roots of Diff. Pressure (in H2O): 0.866	
Run Velocity (ft/sec): 60.59	
Stack Flow (scfh): 16251753	Reference Method Value (scfh): 16252000

Trav.	Avg.				
Point	Port	Probe	Diff. Pressure	Stack Temp.	Probe Cp
ID	ID	ID	(in H2O)	(F)	Coeff.
001	A	PT-22	0.830	330.0	0.840
002	A	PT-22	0.840	330.0	0.840
003	A	PT-22	0.760	330.0	0.840
004	B	PT-22	0.700	331.0	0.840
005	B	PT-22	0.740	331.0	0.840
006	B	PT-22	0.680	331.0	0.840
007	C	PT-22	0.690	331.0	0.840
008	C	PT-22	0.750	331.0	0.840
009	C	PT-22	0.680	331.0	0.840
010	D	PT-22	0.830	331.0	0.840
011	D	PT-22	0.820	331.0	0.840
012	D	PT-22	0.700	331.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 5	Run Start Date/Time: 11/18/2013 0950	End Date/Time: 11/18/2013 0956

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 331.8
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.3	Percent O2 (Dry): 3.3
CO2/O2 Reference Method: 3A	Percent H2O: 22.1
Molecular Weight (Dry): 30.90	Molecular Weight (Wet): 28.05
Mean Sq. Roots of Diff. Pressure (in H2O): 0.887	
Run Velocity (ft/sec): 62.05	
Stack Flow (scfh): 16620518	Reference Method Value (scfh): 16621000

Trav.	Avg.				
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure (in H2O)	(F)	Coeff.
001	A	PT-22	0.840	333.0	0.840
002	A	PT-22	0.830	333.0	0.840
003	A	PT-22	0.760	333.0	0.840
004	B	PT-22	0.740	331.0	0.840
005	B	PT-22	0.720	331.0	0.840
006	B	PT-22	0.670	331.0	0.840
007	C	PT-22	0.770	331.0	0.840
008	C	PT-22	0.780	331.0	0.840
009	C	PT-22	0.700	331.0	0.840
010	D	PT-22	0.900	332.0	0.840
011	D	PT-22	0.890	332.0	0.840
012	D	PT-22	0.850	332.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 6	Run Start Date/Time: 11/18/2013 1005	End Date/Time: 11/18/2013 1010

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 331.8
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.3	Percent O2 (Dry): 3.3
CO2/O2 Reference Method: 3A	Percent H2O: 22.1
Molecular Weight (Dry): 30.90	Molecular Weight (Wet): 28.05
Mean Sq. Roots of Diff. Pressure (in H2O): 0.856	
Run Velocity (ft/sec): 59.91	
Stack Flow (scfh): 16048998	Reference Method Value (scfh): 16049000

Trav.		Avg.			
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure	(F)	Coeff.
			(in H2O)		
001	A	PT-22	0.840	331.0	0.840
002	A	PT-22	0.850	331.0	0.840
003	A	PT-22	0.750	331.0	0.840
004	B	PT-22	0.600	332.0	0.840
005	B	PT-22	0.660	332.0	0.840
006	B	PT-22	0.520	332.0	0.840
007	C	PT-22	0.700	332.0	0.840
008	C	PT-22	0.800	332.0	0.840
009	C	PT-22	0.690	332.0	0.840
010	D	PT-22	0.860	332.0	0.840
011	D	PT-22	0.850	332.0	0.840
012	D	PT-22	0.720	332.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 7 (Not Used)	Run Start Date/Time: 11/18/2013 1030	End Date/Time: 11/18/2013 1035

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 331.5
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.4
CO2/O2 Reference Method: 3A	Percent H2O: 22.1
Molecular Weight (Dry): 30.89	Molecular Weight (Wet): 28.04
Mean Sq. Roots of Diff. Pressure (in H2O): 0.884	
Run Velocity (ft/sec): 61.90	
Stack Flow (scfh): 16586400	Reference Method Value (scfh): 16586000

Trav.	Avg.				
Point	Port	Probe	Diff. Pressure	Stack Temp.	Probe Cp
ID	ID	ID	(in H2O)	(F)	Coeff.
001	A	PT-22	0.870	332.0	0.840
002	A	PT-22	0.880	332.0	0.840
003	A	PT-22	0.740	332.0	0.840
004	B	PT-22	0.750	331.0	0.840
005	B	PT-22	0.740	331.0	0.840
006	B	PT-22	0.720	331.0	0.840
007	C	PT-22	0.750	331.0	0.840
008	C	PT-22	0.790	331.0	0.840
009	C	PT-22	0.690	331.0	0.840
010	D	PT-22	0.840	332.0	0.840
011	D	PT-22	0.860	332.0	0.840
012	D	PT-22	0.770	332.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 8	Run Start Date/Time: 11/18/2013 1036	End Date/Time: 11/18/2013 1041

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 332.3
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.4
CO2/O2 Reference Method: 3A	Percent H2O: 22.1
Molecular Weight (Dry): 30.89	Molecular Weight (Wet): 28.04
Mean Sq. Roots of Diff. Pressure (in H2O): 0.870	
Run Velocity (ft/sec): 60.94	
Stack Flow (scfh): 16313411	Reference Method Value (scfh): 16313000

Trav.	Avg.				
Point	Port	Probe	Diff. Pressure	Stack Temp.	Probe Cp
ID	ID	ID	(in H2O)	(F)	Coeff.
001	A	PT-22	0.860	333.0	0.840
002	A	PT-22	0.870	333.0	0.840
003	A	PT-22	0.750	333.0	0.840
004	B	PT-22	0.730	332.0	0.840
005	B	PT-22	0.740	332.0	0.840
006	B	PT-22	0.640	332.0	0.840
007	C	PT-22	0.670	332.0	0.840
008	C	PT-22	0.730	332.0	0.840
009	C	PT-22	0.690	332.0	0.840
010	D	PT-22	0.860	332.0	0.840
011	D	PT-22	0.830	332.0	0.840
012	D	PT-22	0.740	332.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 9	Run Start Date/Time: 11/18/2013 1042	End Date/Time: 11/18/2013 1048

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 332.3
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.4
CO2/O2 Reference Method: 3A	Percent H2O: 22.1
Molecular Weight (Dry): 30.89	Molecular Weight (Wet): 28.04
Mean Sq. Roots of Diff. Pressure (in H2O): 0.874	
Run Velocity (ft/sec): 61.24	
Stack Flow (scfh): 16391419	Reference Method Value (scfh): 16391000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	0.860	333.0	0.840	
002	A	PT-22	0.840	333.0	0.840	
003	A	PT-22	0.710	333.0	0.840	
004	B	PT-22	0.770	331.0	0.840	
005	B	PT-22	0.740	332.0	0.840	
006	B	PT-22	0.660	332.0	0.840	
007	C	PT-22	0.770	332.0	0.840	
008	C	PT-22	0.810	332.0	0.840	
009	C	PT-22	0.820	332.0	0.840	
010	D	PT-22	0.750	332.0	0.840	
011	D	PT-22	0.780	333.0	0.840	
012	D	PT-22	0.680	333.0	0.840	

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: M	Reference Method: 2	
Run Number: 10	Run Start Date/Time: 11/18/2013 1054	End Date/Time: 11/18/2013 1100

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 331.8
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.73
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 17.2	Percent O2 (Dry): 3.4
CO2/O2 Reference Method: 3A	Percent H2O: 22.1
Molecular Weight (Dry): 30.89	Molecular Weight (Wet): 28.04
Mean Sq. Roots of Diff. Pressure (in H2O): 0.882	
Run Velocity (ft/sec): 61.76	
Stack Flow (scfh): 16544223	Reference Method Value (scfh): 16544000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	0.840	332.0	0.840	
002	A	PT-22	0.890	332.0	0.840	
003	A	PT-22	0.810	332.0	0.840	
004	B	PT-22	0.800	331.0	0.840	
005	B	PT-22	0.790	331.0	0.840	
006	B	PT-22	0.650	331.0	0.840	
007	C	PT-22	0.750	332.0	0.840	
008	C	PT-22	0.790	332.0	0.840	
009	C	PT-22	0.660	332.0	0.840	
010	D	PT-22	0.780	332.0	0.840	
011	D	PT-22	0.860	332.0	0.840	
012	D	PT-22	0.740	332.0	0.840	

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagan
Facility: GREC
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH
Date: 11/18/13
Operating Level: N10
Run Number: 1

Pitot ID:	85-22
Pitot C _p :	0.84
Stack Area:	112.31
Traverse Points:	12
Bar. Press. (in Hg):	29.77
W. Press. (in H ₂ O):	-0.73
% CO ₂ :	17.3
% O ₂ :	3.2
% Moisture:	21.9

Run Start Time: 0850
Run Stop Time: (15) 0900 0858

Initial Pitot Leak Check: 0.00 @ 4.6
Final Pitot Leak Check: 0.00 @ 4.1

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fugen
Facility: GREI
Unit No.: 1
Sample Location: stack
Operator(s): ms/AT

Date: 11/18/13
Operating Level: MID
Run Number: 2

Run Start Time: 0900
Run Stop Time: 0906

Pitot ID: PT-22
Pitot Cp: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.73

% CO₂: 17.3
 % O₂: 3.3
 % Moisture: 21.9

Initial Pitot Leak Check: 0.00 @ 4.1
Final Pitot Leak Check: 0.00 @ 4.8

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fugen
Facility: Greene
Unit No.: 1
Sample Location: Stack
Operator(s): ms/nh

Pitot ID: PT-22
Pitot C_P: 0.84
Stack Area: 112.31
Traverse Points: 12

Date: 11/18/13
Operating Level: mid
Run Number: 3

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.73

Run Start Time: 0907
Run Stop Time: 0914

% CO₂: 17.3
% O₂: 3.2
% Moisture: 21.9

Initial Pitot Leak Check: 0.00 @ 4.8
Final Pitot Leak Check: 0.00 @ 4.1

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: GREC
Unit No.: 1
e Location: Stack
Operator(s): MS/MH

Pitot ID: Pt-22
Pitot C_p : 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.73

% CO₂: 17.3

% O₂: 3.3

% Moisture: 22.1

Initial Pitot Leak Check: *0.00 @ 4.1*

Final Pitot Leak Check: 0.00 @ 4.4'

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: 62EC
Unit No.: 1
Sample Location: stack
Operator(s): MS/HH
Date: 11/18/13
Operating Level: MLB
Run Number: 5
Run Start Time: 0950
Run Stop Time: 0956

Pitot ID:	Pt-22
Pitot Cp:	0.84
Stack Area:	112.31
Traverse Points:	12
Bar. Press. (in Hg):	29.77
W. Press. (in H ₂ O):	-0.73
% CO ₂ :	17.3
% O ₂ :	3.3
% Moisture:	22.1
Pitot Leak Check:	0.00 @ 4.4
Pitot Leak Check:	0.00 @ 4.9

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Gree
Unit No.: 1
e Location: Stack
Operator(s): MS/IAH

Pitot ID: PT-22
Pitot C_p: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.73

% CO₂: 17.5

% O₂: 33

% Moisture: 22.1

Initial Pitot Leak Check: 0.00 @ 4.9

Final Pitot Leak Check: 0.00 @ 4.7
0.00 @ 3.4

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Grcc
Unit No.: 1
Sample Location: Stack
Operator(s): mc/att

Date: 11/18/13
Operating Level: M.D
Run Number: 7

Run Start Time: 1030
Run Stop Time: 1035

Pitot ID: PT-22
Pitot C_D: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.73

% CO₂: 17.2
% O₂: 3.4
% Moisture: 22.1

Initial Pitot Leak Check: 0.00 @ 3.6
Final Pitot Leak Check: 0.00 @ 4.2

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: GREC
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH
Date: 11/18/13
Operating Level: MID
Run Number: 8
Run Start Time: 1036
Run Stop Time: 1041

Pitot ID: PT-22
Pitot C_P: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.73

% CO₂: 17.2
% O₂: 3.4
% Moisture: 22.1

Initial Pitot Leak Check: 0.00 @ 4.2
Final Pitot Leak Check: 0.00 @ 4.5

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: GREC
Unit No.: 1
Sample Location: Stack
Operator(s): MC/HH

Date: 11/18/13
Operating Level: MID
Run Number: 9

Run Start Time: 1042
Run Stop Time: 1048

Pitot ID: PT-22
Pitot C_P: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press (in H₂O): -0.73

% CO₂: 17.2
 % O₂: 3.4
 % Moisture: 22.1

Initial Pitot Leak Check: 0.00 @ 4.5
Final Pitot Leak Check: 0.00 @ 4.6

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: CREC
Unit No.: 1
e Location: Stack
Operator(s): MS/HH

Pitot ID: Pr-22
Pitot C_p: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.73

% CO₂: 17.2

% O₂: 3.4

% Moisture: 22.1

Initial Pitot Leak Check: 0.00 @ 4.6

Final Pitot Leak Check: 0.00 @ 4.1

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.77</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-</u>	Run Number: <u>1</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>30</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.000 @ 6</u>	Load Level: <u>Mid</u>
Date: <u>11/18/2013</u>	Fin. Leak Rate: <u>0.000 @ 6</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	08:50	0	393.100	1.80	67.0	3.0	56
2	09:00	10	400.500	1.80	69.0	3.0	56
3	09:10	20	407.900	1.80	71.0	3.0	61
End	09:20	30	415.391				

Averages:	2	69	3.0	58
Volume Collected: 22.291				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	775.2	773.1	628.9	910.0
Final Weight	857.3	811.2	630.2	916.8
Weight Gain:	82.1	38.1	1.3	6.8

Total Weight Gain: 128.3

Water Vapor V _{wc(std)} :	5.73
Silica Gel Water Vapor V _{wsg(std)} :	0.32
GAS SAMPLED (DSCF) V _{m(std)} :	21.60
MOISTURE(% VOL) B _{ws} :	21.88

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: Fagen
 Facility: GREC
 Unit No.: 1
 Sample Location: Stack
 Date: 11/18/2013

Bar. Press (in Hg): 29.77
 Static Press (in H₂O): -
 Meter Box Number: CEMS7MB
 Ini. Leak Rate: 0.000 @ 8
 Fin. Leak Rate: 0.000 @ 5

Meter Y_i: 0.976
 Run Number: 2
 Run Duration (min): 30
 Load Level: Mid

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	09:43	0	424.899	1.80	76	3.0	57
2	09:53	10	432.400	1.80	78	3.0	54
3	10:03	20	439.800	1.80	80	3.0	58
End	10:13	30	447.192				

Averages:

1.80	78	3.0	56

 Volume Collected: 22.293

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	601.9	691.0	610.3	916.8
Final Weight	708.0	704.6	612.3	923.0
Weight Gain:	106.1	13.6	2.0	6.2

Total Weight Gain: 127.9

Water Vapor V_{wc(std)}: 5.74
 Silica Gel Water Vapor V_{wsg(std)}: 0.29
 GAS SAMPLED (DSCF) V_{m(std)}: 21.24
 MOISTURE(% VOL) B_{ws}: 22.12

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.77</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-</u>	Run Number: <u>3</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>30</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u></u>	Load Level: <u>Mid</u>
Date: <u>11/18/2013</u>	Fin. Leak Rate: <u></u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	10:30	0	447.327	1.80	80	3.0	57
2	10:40	10	454.900	1.80	82	3.0	57
3	10:50	20	462.500	1.80	82	3.0	59
End	11:00	30	470.196				

Averages:	1.80	81	3.0	58
Volume Collected: 22.869				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	708.0	704.6	612.3	872.2
Final Weight	813.7	718.0	614.4	881.5
Weight Gain:	105.7	13.4	2.1	9.3

Total Weight Gain: 130.5

Water Vapor V _{wc(std)} :	5.71
Silica Gel Water Vapor V _{wsg(std)} :	0.44
GAS SAMPLED (DSCF) V _{m(std)} :	21.65
MOISTURE(% VOL) B _{ws} :	22.13

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.77 Meter Y_i: 0.976
 Facility: GREC Static Press (in H₂O): -0.73 Run Number: 1
 Unit No.: 1 Meter Box Number: CEAS7MB Run Duration (min): 30
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 4 Load Level: M.D
 Date: 11/18/13 Fin. Leak Rate: 0.000 @ 5

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	0850	0	393.100	1.8	67	3	56
2	0900	10	400.5	1.8	69	3	56
3	0910	20	407.9	1.8	71	3	61
End	0920	30	415.391				

Averages:

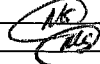
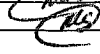
1.8	69	3	57.7

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	775.2	773.1	628.9	910.0
Final Weight	857.3	811.2	630.2	916.8
Weight Gain:	82.1	38.1	1.3	6.8

Total Weight Gain: 128.3

21.88 @ B₂

Train Prepared by: 
 Train Recovered by: 

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.77 Meter Y_i: 0.976
 Facility: GREC Static Press (in H₂O): -0.73 Run Number: 2
 Unit No.: 1 Meter Box Number: CEMS7MB Run Duration (min): 30
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 8 Load Level: MD
 Date: 11/18/13 Fin. Leak Rate: 0.000 @ 5

Point	CEM Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
0943 1	¹⁴⁰ 0954	0	424.899	1.8	76	3	57
2	0953	10	432.4	1.8	78	3	54
3	1003	20	439.8	1.8	80	3	58
End	1013	30	447.192				

Averages:

1.8	78	3	56.3

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	601.9	691.0	610.3	916.8
Final Weight	708.0	704.6	612.3	923.0
Weight Gain:	106.1	13.6	2.0	6.2

Total Weight Gain: 127.9

Train Prepared by: ALS

Train Recovered by: ALS

22.12 % B₂₀

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.77 Meter Y_i: 0.976
 Facility: GREC Static Press (in H₂O): -0.73 Run Number: 3
 Unit No.: 1 Meter Box Number: CEMS 7 MB Run Duration (min): 30
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 4 Load Level: Mid
 Date: 11/18/13 Fin. Leak Rate: 0.000 @ 7

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1030	0	447.327	1.8	80	3	57
2	1040	10	454.9	1.8	82	3	57
3	1050	20	462.5	1.8	82	3	59
End	1100	30	470.196				

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	708.0	704.6	612.3	872.2 ~~872.2~~
Final Weight	813.7	718.0	614.4	881.5
Weight Gain:				

Total Weight Gain: _____

Train Prepared by: NLC
 Train Recovered by: PLD

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
Mid Load Flow RATA
Date:11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.09 %	0.11 %	0.10
10.03 percent O ₂	9.96 %	10.01 %	9.98
0.00 percent CO ₂	0.12 %	0.15 %	0.13
19.07 percent CO ₂	18.74 %	18.72 %	18.73
Mean Reference Values:	Corrected Results:	Basis:	
3.29 percent O ₂	3.20 percent O ₂	DRY	
17.00 percent CO ₂	17.30 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
Mid Load Flow RATA
Date:11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.11 %	0.04 %	0.08
10.03 percent O ₂	10.01 %	9.93 %	9.97
0.00 percent CO ₂	0.15 %	0.04 %	0.09
19.07 percent CO ₂	18.72 %	18.61 %	18.66
Mean Reference Values:	Corrected Results:	Basis:	
3.33 percent O ₂	3.30 percent O ₂	DRY	
16.93 percent CO ₂	17.30 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
Mid Load Flow RATA
Date:11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.04 %	0.09 %	0.07
10.03 percent O ₂	9.93 %	9.98 %	9.95
0.00 percent CO ₂	0.04 %	0.13 %	0.08
19.07 percent CO ₂	18.61 %	18.79 %	18.70
Mean Reference Values:	Corrected Results:	Basis:	
3.38 percent O ₂	3.40 percent O ₂	DRY	
16.85 percent CO ₂	17.20 percent CO ₂	DRY	

filename 11/18/2013 8:22:40 C:\RMDATA\20131118.CSV
testby1 C.E.M. Solutions, Inc.
testby2 1183 East Overdrive Circle
testby3 Hernando, FL 34442
testby4 (352) 489-4337
testfor1 FAGEN
testfor2 GREC
testfor3 BFB Boiler (002)
testfor4 Mid Load Flow RATA

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
dcp1	11/18/2013	8:23:00	20.80	-0.02 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:23:15	20.78	-0.02 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:23:30	20.82	-0.02 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:23:45	14.97	0.00 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:24:00	0.29	-0.02 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:24:15	0.02	-0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:24:30	0.01	-0.06 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:24:45	0.04	-0.06 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:25:00	0.00	-0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:25:15	-0.02	-0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/18/2013	8:25:30	0.02	-0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/18/2013	8:25:30	0.02	-0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/18/2013	8:25:30	0.02	-0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp6	11/18/2013	8:26:30	0.15	-0.05 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:26:45	3.87	0.68 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:27:00	1.51	1.60 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:27:15	2.97	1.35 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:27:30	3.81	2.19 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:27:45	4.07	2.78 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:28:00	4.74	3.07 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:28:15	5.14	3.49 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:28:30	5.47	3.82 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:28:45	11.32	4.15 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:29:00	20.13	11.59 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:29:15	20.34	17.41 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:29:30	20.35	18.62 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:29:45	20.36	18.89 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:30:00	20.36	18.93 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:30:15	20.35	18.94 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:30:30	20.38	18.90 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:30:45	20.38	18.89 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/18/2013	8:31:00	20.37	18.93 CC365323/cg6 O2 20.37 CO2 19.07 0 0
co2high1	11/18/2013	8:31:00	20.37	18.93 CC365323/cg6 O2 20.37 CO2 19.07 0 0
o2high1	11/18/2013	8:31:00	20.37	18.93 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp5	11/18/2013	8:31:15	20.37	18.98 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:31:30	15.26	18.24 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:31:45	9.98	13.34 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:32:00	9.99	10.13 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:32:15	10.02	9.69 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:32:30	9.98	9.67 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:32:45	10.00	9.67 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:33:00	10.00	9.65 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:33:15	10.01	9.64 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/18/2013	8:33:30	9.99	9.66 CC427756/cg5 O2 10.03 CO2 9.624 0 0
co2mid1	11/18/2013	8:33:15	10.01	9.64 CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2mid1	11/18/2013	8:33:00	10.00	9.65 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg1	11/18/2013	8:33:45	10.05	9.79 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:34:00	10.38	9.54 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:34:15	16.08	6.87 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:34:30	10.16	6.62 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:34:45	6.44	8.99 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:35:00	0.32	5.04 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:35:15	0.15	1.03 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:35:30	0.10	0.29 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:35:45	0.12	0.17 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:36:00	0.10	0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:36:15	0.09	0.13 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/18/2013	8:36:30	0.10	0.12 CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/18/2013	8:36:30	0.10	0.12 CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/18/2013	8:36:15	0.09	0.13 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg5	11/18/2013	8:36:45	0.10	0.11 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/18/2013	8:37:00	0.08	0.10 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/18/2013	8:37:15	0.09	0.10 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/18/2013	8:37:30	1.11	0.14 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/18/2013	8:37:45	8.93	2.23 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/18/2013	8:38:00	9.91	7.46 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/18/2013	8:38:15	9.95	9.15 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/18/2013	8:38:30	9.96	9.45 CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2span1	11/18/2013	8:38:30	9.96	9.45 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg6	11/18/2013	8:38:45	9.96	9.53 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:39:00	9.97	9.56 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:39:15	10.00	9.58 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:39:30	9.98	9.56 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:39:45	15.04	9.93 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:40:00	20.06	14.23 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:40:15	20.24	17.57 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:40:30	20.24	18.41 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:40:45	20.24	18.62 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:41:00	20.24	18.69 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/18/2013	8:41:15	20.24	18.74 CC365323/cg6 O2 20.37 CO2 19.07 0 0
co2span1	11/18/2013	8:41:15	20.24	18.74 CC365323/cg6 O2 20.37 CO2 19.07 0 0
run1i	11/18/2013	8:41:45	20.24	18.79
run1i	11/18/2013	8:42:00	20.25	18.76
run1i	11/18/2013	8:42:15	19.84	18.74
run1i	11/18/2013	8:42:30	6.78	18.56
run1	11/18/2013	8:42:45	3.38	17.52
run1	11/18/2013	8:43:00	3.31	17.20
run1	11/18/2013	8:43:15	3.29	17.10
run1	11/18/2013	8:43:30	3.14	17.11

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run1	11/18/2013	8:43:45	3.00	17.26
run1	11/18/2013	8:44:00	3.13	17.34
run1	11/18/2013	8:44:15	3.24	17.26
run1	11/18/2013	8:44:30	3.39	17.08
run1	11/18/2013	8:44:45	3.42	16.95
run1	11/18/2013	8:45:00	3.33	16.96
run1	11/18/2013	8:45:15	3.40	17.03
run1	11/18/2013	8:45:30	3.40	16.97
run1	11/18/2013	8:45:45	3.37	16.91
run1	11/18/2013	8:46:00	3.34	16.95
run1	11/18/2013	8:46:15	3.33	17.03
run1	11/18/2013	8:46:30	3.46	17.04
run1	11/18/2013	8:46:45	3.41	16.98
run1	11/18/2013	8:47:00	3.37	16.95
run1	11/18/2013	8:47:15	3.36	16.95
run1	11/18/2013	8:47:30	3.25	17.01
run1	11/18/2013	8:47:45	3.34	17.12
run1	11/18/2013	8:48:00	3.58	17.01
run1	11/18/2013	8:48:15	3.56	16.80
run1	11/18/2013	8:48:30	3.43	16.78
run1	11/18/2013	8:48:45	3.39	16.90
run1	11/18/2013	8:49:00	3.24	17.00
run1	11/18/2013	8:49:15	3.30	17.10
run1	11/18/2013	8:49:30	3.40	17.08
run1	11/18/2013	8:49:45	3.39	16.95
run1	11/18/2013	8:50:00	3.45	16.94
run1	11/18/2013	8:50:15	3.53	16.90
run1	11/18/2013	8:50:30	3.49	16.84
run1	11/18/2013	8:50:45	3.46	16.87
run1	11/18/2013	8:51:00	3.31	16.89
run1	11/18/2013	8:51:15	3.31	16.98
run1	11/18/2013	8:51:30	3.24	17.08
run1	11/18/2013	8:51:45	3.25	17.13
run1	11/18/2013	8:52:00	3.30	17.12
run1	11/18/2013	8:52:15	3.14	17.06
run1	11/18/2013	8:52:30	3.09	17.17
run1	11/18/2013	8:52:45	3.19	17.25
run1	11/18/2013	8:53:00	3.17	17.16
run1	11/18/2013	8:53:15	3.01	17.22
run1	11/18/2013	8:53:30	2.93	17.32
run1	11/18/2013	8:53:45	3.02	17.33
run1	11/18/2013	8:54:00	3.12	17.31
run1	11/18/2013	8:54:15	3.12	17.25
run1	11/18/2013	8:54:30	3.06	17.26
run1	11/18/2013	8:54:45	3.05	17.27
run1	11/18/2013	8:55:00	3.24	17.24
run1	11/18/2013	8:55:15	3.28	17.12
run1	11/18/2013	8:55:30	3.12	17.13
run1	11/18/2013	8:55:45	3.10	17.21
run1	11/18/2013	8:56:00	2.95	17.22
run1	11/18/2013	8:56:15	2.88	17.36
run1	11/18/2013	8:56:30	2.88	17.45
run1	11/18/2013	8:56:45	2.93	17.48
run1	11/18/2013	8:57:00	3.03	17.40
run1	11/18/2013	8:57:15	3.23	17.24
run1	11/18/2013	8:57:30	3.29	17.14
run1	11/18/2013	8:57:45	3.37	17.04
run1	11/18/2013	8:58:00	3.45	16.98
run1	11/18/2013	8:58:15	3.42	16.92
run1	11/18/2013	8:58:30	3.32	16.91
run1	11/18/2013	8:58:45	3.27	16.99
run1	11/18/2013	8:59:00	3.21	17.06
run1	11/18/2013	8:59:15	3.08	17.16
run1	11/18/2013	8:59:30	3.09	17.22
run1	11/18/2013	8:59:45	3.26	17.16
run1	11/18/2013	9:00:00	3.47	17.03
run1	11/18/2013	9:00:15	3.39	16.89
run1	11/18/2013	9:00:30	3.34	16.95
run1	11/18/2013	9:00:45	3.27	16.99
run1	11/18/2013	9:01:00	3.31	16.99
run1	11/18/2013	9:01:15	3.35	16.98
run1	11/18/2013	9:01:30	3.41	16.96
run1	11/18/2013	9:01:45	3.39	16.94
run1	11/18/2013	9:02:00	3.35	16.94
run1	11/18/2013	9:02:15	3.31	16.91
run1	11/18/2013	9:02:30	3.30	16.96
run1	11/18/2013	9:02:45	3.45	16.98
run1	11/18/2013	9:03:00	3.43	16.90
run1	11/18/2013	9:03:15	3.34	16.89
run1	11/18/2013	9:03:30	3.13	16.92
run1	11/18/2013	9:03:45	3.06	17.11
run1	11/18/2013	9:04:00	3.08	17.21
run1	11/18/2013	9:04:15	3.10	17.23
run1	11/18/2013	9:04:30	3.12	17.19
run1	11/18/2013	9:04:45	3.19	17.13
run1	11/18/2013	9:05:00	3.35	17.05
run1	11/18/2013	9:05:15	3.46	16.93
run1	11/18/2013	9:05:30	3.50	16.83
run1	11/18/2013	9:05:45	3.42	16.83
run1	11/18/2013	9:06:00	3.41	16.83
run1	11/18/2013	9:06:15	3.48	16.82
run1	11/18/2013	9:06:30	3.49	16.79
run1	11/18/2013	9:06:45	3.56	16.77
run1	11/18/2013	9:07:00	3.60	16.72
run1	11/18/2013	9:07:15	3.63	16.61
run1	11/18/2013	9:07:30	3.60	16.60
run1	11/18/2013	9:07:45	3.67	16.64
run1	11/18/2013	9:08:00	3.54	16.66

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run1	11/18/2013	9:08:15	3.39	16.74
run1	11/18/2013	9:08:30	3.25	16.83
run1	11/18/2013	9:08:45	3.05	17.01
run1	11/18/2013	9:09:00	3.02	17.19
run1	11/18/2013	9:09:15	2.95	17.27
run1	11/18/2013	9:09:30	3.15	17.28
run1	11/18/2013	9:09:45	3.42	17.06
run1	11/18/2013	9:10:00	3.49	16.82
run1	11/18/2013	9:10:15	3.45	16.77
run1	11/18/2013	9:10:30	3.39	16.81
run1	11/18/2013	9:10:45	3.36	16.89
run1	11/18/2013	9:11:00	3.46	16.85
run1	11/18/2013	9:11:15	3.49	16.78
run1	11/18/2013	9:11:30	3.60	16.72
run1	11/18/2013	9:11:45	3.59	16.67
run1	11/18/2013	9:12:00	3.51	16.67
run1	11/18/2013	9:12:15	3.25	16.78
run1	11/18/2013	9:12:30	3.16	16.93
run1	11/18/2013	9:12:45	3.35	17.01
run1	11/18/2013	9:13:00	3.47	16.90
run1	11/18/2013	9:13:15	3.36	16.81
run1	11/18/2013	9:13:30	3.11	16.94
run1	11/18/2013	9:13:45	3.22	17.04
run1	11/18/2013	9:14:00	3.48	16.98
run1	11/18/2013	9:14:15	3.55	16.77
run1	11/18/2013	9:14:30	3.47	16.72
run1	11/18/2013	9:14:45	3.46	16.77
run1	11/18/2013	9:15:00	3.47	16.74
run1	11/18/2013	9:15:15	3.44	16.77
run1	11/18/2013	9:15:30	3.49	16.80
run1	11/18/2013	9:15:45	3.64	16.75
run1	11/18/2013	9:16:00	3.53	16.64
run1	11/18/2013	9:16:15	3.37	16.68
run1	11/18/2013	9:16:30	3.27	16.85
run1	11/18/2013	9:16:45	3.18	16.97
run1	11/18/2013	9:17:00	3.23	17.05
run1	11/18/2013	9:17:15	3.27	17.05
run1	11/18/2013	9:17:30	3.19	16.98
run1	11/18/2013	9:17:45	3.27	16.97
run1	11/18/2013	9:18:00	3.16	17.00
run1	11/18/2013	9:18:15	3.14	17.07
run1	11/18/2013	9:18:30	3.14	17.11
run1	11/18/2013	9:18:45	3.00	17.15
run1	11/18/2013	9:19:00	2.96	17.18
run1	11/18/2013	9:19:15	2.96	17.23
run1	11/18/2013	9:19:30	2.98	17.26
run1	11/18/2013	9:19:45	2.98	17.27
run1	11/18/2013	9:20:00	2.98	17.27
run1	11/18/2013	9:20:15	3.14	17.22
run1	11/18/2013	9:20:30	3.29	17.05
run1	11/18/2013	9:20:45	3.42	16.92
run1	11/18/2013	9:21:00	3.52	16.83
run1	11/18/2013	9:21:15	3.42	16.78
run1	11/18/2013	9:21:30	3.33	16.87
run1	11/18/2013	9:21:45	3.29	16.89
run1	11/18/2013	9:22:00	3.22	16.94
run1	11/18/2013	9:22:15	3.22	17.04
run1	11/18/2013	9:22:30	3.34	17.04
run1	11/18/2013	9:22:45	3.43	16.95
run1	11/18/2013	9:23:00	3.64	16.78
run1	11/18/2013	9:23:15	3.55	16.59
run1	11/18/2013	9:23:30	3.46	16.67
run1	11/18/2013	9:23:45	3.42	16.78
run1	11/18/2013	9:24:00	3.35	16.85
run1	11/18/2013	9:24:15	3.51	16.86
run1	11/18/2013	9:24:30	3.54	16.71
run1	11/18/2013	9:24:45	3.40	16.70
run1	11/18/2013	9:25:00	3.37	16.83
run1	11/18/2013	9:25:15	3.38	16.91
run1	11/18/2013	9:25:30	3.28	16.91
run1	11/18/2013	9:25:45	3.18	16.96
run1	11/18/2013	9:26:00	3.26	17.01
run1	11/18/2013	9:26:15	3.41	16.99
run1	11/18/2013	9:26:30	3.37	16.90
run1	11/18/2013	9:26:45	3.23	16.93
run1	11/18/2013	9:27:00	3.22	16.97
run1	11/18/2013	9:27:15	3.21	17.02
run1	11/18/2013	9:27:30	3.45	17.02
run1	11/18/2013	9:27:45	3.68	16.81
run1	11/18/2013	9:28:00	3.52	16.64
run1	11/18/2013	9:28:15	3.40	16.69
run1	11/18/2013	9:28:30	3.36	16.82
run1	11/18/2013	9:28:45	3.27	16.91
run1	11/18/2013	9:29:00	3.26	17.00
run1	11/18/2013	9:29:15	3.29	17.03
run1	11/18/2013	9:29:30	3.38	16.92
run1	11/18/2013	9:29:45	3.27	16.89
run1	11/18/2013	9:30:00	3.24	16.99
run1	11/18/2013	9:30:15	3.33	17.03
run1	11/18/2013	9:30:30	3.49	16.92
run1	11/18/2013	9:30:45	3.42	16.76
run1	11/18/2013	9:31:00	3.49	16.77
run1	11/18/2013	9:31:15	3.52	16.78
run1	11/18/2013	9:31:30	3.58	16.75
run1	11/18/2013	9:31:45	3.70	16.66
run1	11/18/2013	9:32:00	3.51	16.57
run1	11/18/2013	9:32:15	3.44	16.69
run1	11/18/2013	9:32:30	3.46	16.82

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run1	11/18/2013	9:32:45	3.57	16.79
run1	11/18/2013	9:33:00	3.53	16.71
run1	11/18/2013	9:33:15	3.43	16.68
run1	11/18/2013	9:33:30	3.32	16.82
run1	11/18/2013	9:33:45	3.35	16.94
run1	11/18/2013	9:34:00	3.40	16.89
averun1	11/18/2013	8:50:00	3.29	17.00
scg6	11/18/2013	9:34:30	3.63	16.68 CC365323/cg6
scg6	11/18/2013	9:34:45	3.48	16.66 CC365323/cg6
scg6	11/18/2013	9:35:00	3.80	16.78 CC365323/cg6
scg6	11/18/2013	9:35:15	17.11	16.58 CC365323/cg6
scg6	11/18/2013	9:35:30	20.06	16.57 CC365323/cg6
scg6	11/18/2013	9:35:45	20.21	17.59 CC365323/cg6
scg6	11/18/2013	9:36:00	20.20	18.39 CC365323/cg6
scg6	11/18/2013	9:36:15	20.20	18.72 CC365323/cg6
co2span1	11/18/2013	9:36:15	20.20	18.72 CC365323/cg6
scg5	11/18/2013	9:36:30	20.26	18.77 CC427756/cg5
scg5	11/18/2013	9:36:45	20.25	18.74 CC427756/cg5
scg5	11/18/2013	9:37:00	20.25	18.72 CC427756/cg5
scg5	11/18/2013	9:37:15	18.56	18.75 CC427756/cg5
scg5	11/18/2013	9:37:30	10.47	15.96 CC427756/cg5
scg5	11/18/2013	9:37:45	10.04	10.63 CC427756/cg5
scg5	11/18/2013	9:38:00	10.01	9.72 CC427756/cg5
scg5	11/18/2013	9:38:15	10.01	9.64 CC427756/cg5
scg5	11/18/2013	9:38:30	10.01	9.63 CC427756/cg5
o2span1	11/18/2013	9:38:30	10.01	9.63 CC427756/cg5
scg1	11/18/2013	9:38:45	10.01	9.64 CC281765/cg1
scg1	11/18/2013	9:39:00	9.98	9.64 CC281765/cg1
scg1	11/18/2013	9:39:15	10.03	9.60 CC281765/cg1
scg1	11/18/2013	9:39:30	10.00	9.59 CC281765/cg1
scg1	11/18/2013	9:39:45	5.95	9.40 CC281765/cg1
scg1	11/18/2013	9:40:00	0.29	4.96 CC281765/cg1
scg1	11/18/2013	9:40:15	0.14	0.96 CC281765/cg1
scg1	11/18/2013	9:40:30	0.11	0.26 CC281765/cg1
scg1	11/18/2013	9:40:45	0.11	0.15 CC281765/cg1
co2zero1	11/18/2013	9:40:45	0.11	0.15 CC281765/cg1
o2zero1	11/18/2013	9:40:45	0.11	0.15 CC281765/cg1
run2	11/18/2013	9:42:30	2.26	16.42
run2	11/18/2013	9:42:45	2.82	16.94
run2	11/18/2013	9:43:00	3.21	17.02
run2	11/18/2013	9:43:15	3.12	16.98
run2	11/18/2013	9:43:30	2.98	17.09
run2	11/18/2013	9:43:45	3.02	17.25
run2	11/18/2013	9:44:00	3.05	17.24
run2	11/18/2013	9:44:15	3.09	17.16
run2	11/18/2013	9:44:30	3.09	17.10
run2	11/18/2013	9:44:45	2.98	17.16
run2	11/18/2013	9:45:00	2.90	17.27
run2	11/18/2013	9:45:15	2.96	17.33
run2	11/18/2013	9:45:30	3.09	17.25
run2	11/18/2013	9:45:45	3.03	17.15
run2	11/18/2013	9:46:00	3.00	17.24
run2	11/18/2013	9:46:15	3.12	17.26
run2	11/18/2013	9:46:30	3.16	17.17
run2	11/18/2013	9:46:45	3.13	17.07
run2	11/18/2013	9:47:00	3.18	17.11
run2	11/18/2013	9:47:15	3.33	17.07
run2	11/18/2013	9:47:30	3.20	16.97
run2	11/18/2013	9:47:45	3.11	17.08
run2	11/18/2013	9:48:00	3.08	17.11
run2	11/18/2013	9:48:15	3.16	17.13
run2	11/18/2013	9:48:30	3.30	17.08
run2	11/18/2013	9:48:45	3.33	17.00
run2	11/18/2013	9:49:00	3.27	16.96
run2	11/18/2013	9:49:15	3.25	16.94
run2	11/18/2013	9:49:30	3.23	16.97
run2	11/18/2013	9:49:45	3.14	17.03
run2	11/18/2013	9:50:00	3.22	17.10
run2	11/18/2013	9:50:15	3.41	17.03
run2	11/18/2013	9:50:30	3.45	16.83
run2	11/18/2013	9:50:45	3.55	16.75
run2	11/18/2013	9:51:00	3.62	16.66
run2	11/18/2013	9:51:15	3.39	16.69
run2	11/18/2013	9:51:30	3.42	16.83
run2	11/18/2013	9:51:45	3.40	16.82
run2	11/18/2013	9:52:00	3.38	16.80
run2	11/18/2013	9:52:15	3.40	16.86
run2	11/18/2013	9:52:30	3.33	16.88
run2	11/18/2013	9:52:45	3.27	16.94
run2	11/18/2013	9:53:00	3.21	17.00
run2	11/18/2013	9:53:15	3.20	17.00
run2	11/18/2013	9:53:30	3.16	17.06
run2	11/18/2013	9:53:45	3.10	17.10
run2	11/18/2013	9:54:00	3.24	17.13
run2	11/18/2013	9:54:15	3.46	16.98
run2	11/18/2013	9:54:30	3.58	16.75
run2	11/18/2013	9:54:45	3.49	16.69
run2	11/18/2013	9:55:00	3.37	16.79
run2	11/18/2013	9:55:15	3.37	16.89
run2	11/18/2013	9:55:30	3.46	16.88
run2	11/18/2013	9:55:45	3.48	16.75
run2	11/18/2013	9:56:00	3.41	16.77
run2	11/18/2013	9:56:15	3.30	16.87
run2	11/18/2013	9:56:30	3.26	16.99
run2	11/18/2013	9:56:45	3.42	16.99
run2	11/18/2013	9:57:00	3.45	16.79
run2	11/18/2013	9:57:15	3.48	16.79
run2	11/18/2013	9:57:30	3.58	16.78

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run2	11/18/2013	9:57:45	3.55	16.70
run2	11/18/2013	9:58:00	3.53	16.70
run2	11/18/2013	9:58:15	3.49	16.69
run2	11/18/2013	9:58:30	3.41	16.77
run2	11/18/2013	9:58:45	3.47	16.85
run2	11/18/2013	9:59:00	3.66	16.78
run2	11/18/2013	9:59:15	3.65	16.58
run2	11/18/2013	9:59:30	3.52	16.62
run2	11/18/2013	9:59:45	3.57	16.73
run2	11/18/2013	10:00:00	3.61	16.70
run2	11/18/2013	10:00:15	3.71	16.66
run2	11/18/2013	10:00:30	3.72	16.54
run2	11/18/2013	10:00:45	3.68	16.53
run2	11/18/2013	10:01:00	3.51	16.61
run2	11/18/2013	10:01:15	3.38	16.77
run2	11/18/2013	10:01:30	3.29	16.91
run2	11/18/2013	10:01:45	3.41	16.91
run2	11/18/2013	10:02:00	3.58	16.80
run2	11/18/2013	10:02:15	3.59	16.70
run2	11/18/2013	10:02:30	3.54	16.70
run2	11/18/2013	10:02:45	3.49	16.73
run2	11/18/2013	10:03:00	3.50	16.74
run2	11/18/2013	10:03:15	3.52	16.73
run2	11/18/2013	10:03:30	3.32	16.81
run2	11/18/2013	10:03:45	3.20	16.97
run2	11/18/2013	10:04:00	3.27	17.01
run2	11/18/2013	10:04:15	3.29	16.98
run2	11/18/2013	10:04:30	3.33	17.01
run2	11/18/2013	10:04:45	3.47	16.96
run2	11/18/2013	10:05:00	3.48	16.84
run2	11/18/2013	10:05:15	3.40	16.77
run2	11/18/2013	10:05:30	3.38	16.83
run2	11/18/2013	10:05:45	3.49	16.84
run2	11/18/2013	10:06:00	3.52	16.80
run2	11/18/2013	10:06:15	3.41	16.77
run2	11/18/2013	10:06:30	3.29	16.82
run2	11/18/2013	10:06:45	3.30	16.94
run2	11/18/2013	10:07:00	3.34	16.99
run2	11/18/2013	10:07:15	3.53	16.92
run2	11/18/2013	10:07:30	3.52	16.76
run2	11/18/2013	10:07:45	3.42	16.73
run2	11/18/2013	10:08:00	3.35	16.84
run2	11/18/2013	10:08:15	3.33	16.91
run2	11/18/2013	10:08:30	3.31	16.95
run2	11/18/2013	10:08:45	3.35	16.92
run2	11/18/2013	10:09:00	3.18	16.93
run2	11/18/2013	10:09:15	3.13	17.10
run2	11/18/2013	10:09:30	3.31	17.15
run2	11/18/2013	10:09:45	3.38	17.03
run2	11/18/2013	10:10:00	3.34	16.87
run2	11/18/2013	10:10:15	3.24	16.89
run2	11/18/2013	10:10:30	3.20	17.02
run2	11/18/2013	10:10:45	3.13	17.08
run2	11/18/2013	10:11:00	3.01	17.16
run2	11/18/2013	10:11:15	3.16	17.21
run2	11/18/2013	10:11:30	3.25	17.10
run2	11/18/2013	10:11:45	3.33	17.01
run2	11/18/2013	10:12:00	3.26	16.98
run2	11/18/2013	10:12:15	3.01	17.07
run2	11/18/2013	10:12:30	3.08	17.22
run2	11/18/2013	10:12:45	3.19	17.15
run2	11/18/2013	10:13:00	2.98	17.15
run2	11/18/2013	10:13:15	3.13	17.25
run2	11/18/2013	10:13:30	3.34	17.16
run2	11/18/2013	10:13:45	3.38	16.93
run2	11/18/2013	10:14:00	3.25	16.90
run2	11/18/2013	10:14:15	3.16	17.03
run2	11/18/2013	10:14:30	3.26	17.09
run2	11/18/2013	10:14:45	3.21	17.04
run2	11/18/2013	10:15:00	3.13	17.04
run2	11/18/2013	10:15:15	3.38	17.03
run2	11/18/2013	10:15:30	3.39	16.92
run2	11/18/2013	10:15:45	3.37	16.91
run2	11/18/2013	10:16:00	3.42	16.92
run2	11/18/2013	10:16:15	3.53	16.80
run2	11/18/2013	10:16:30	3.60	16.67
run2	11/18/2013	10:16:45	3.46	16.69
run2	11/18/2013	10:17:00	3.41	16.80
run2	11/18/2013	10:17:15	3.46	16.84
run2	11/18/2013	10:17:30	3.35	16.80
run2	11/18/2013	10:17:45	3.23	16.92
run2	11/18/2013	10:18:00	3.30	17.03
run2	11/18/2013	10:18:15	3.41	16.95
averun2	11/18/2013	9:43:00	3.33	16.93
scg1	11/18/2013	10:18:45	3.14	17.01
scg1	11/18/2013	10:19:00	3.20	17.11
scg1	11/18/2013	10:19:15	3.08	17.09
scg1	11/18/2013	10:19:30	1.37	13.80
scg1	11/18/2013	10:19:45	0.08	3.89
scg1	11/18/2013	10:20:00	0.06	0.70
scg1	11/18/2013	10:20:15	0.03	0.18
scg1	11/18/2013	10:20:30	0.05	0.11
scg1	11/18/2013	10:20:45	0.02	0.08
scg1	11/18/2013	10:21:00	0.04	0.06
scg1	11/18/2013	10:21:15	0.04	0.05
scg1	11/18/2013	10:21:30	0.01	0.04
scg1	11/18/2013	10:21:45	0.04	0.04
co2zero1	11/18/2013	10:21:45	0.04	0.04

name	O2		CO2							
sn	1009241630		1009241630							
offset	0		0							
fullscale	100		20							
train	1		1							
gastype	o2 3a		co2 3a							
o2zero1	11/18/2013	10:21:45	0.04	0.04	CC281765/cg1	CO	0	0 CO2	0 O2	0
scg5	11/18/2013	10:22:00	0.05	0.03	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg5	11/18/2013	10:22:15	0.04	0.02	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg5	11/18/2013	10:22:30	0.04	0.02	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg5	11/18/2013	10:22:45	0.04	0.02	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg5	11/18/2013	10:23:00	4.87	0.47	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg5	11/18/2013	10:23:15	9.71	4.71	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg5	11/18/2013	10:23:30	9.90	8.43	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg5	11/18/2013	10:23:45	9.92	9.27	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg5	11/18/2013	10:24:00	9.93	9.43	CC427756/cg5	O2	10.03 CO2	9.624	0	0
o2span1	11/18/2013	10:24:00	9.93	9.43	CC427756/cg5	O2	10.03 CO2	9.624	0	0
scg6	11/18/2013	10:24:15	9.93	9.49	CC365323/cg6	O2	20.37 CO2	19.07	0	0
scg6	11/18/2013	10:24:30	9.97	9.51	CC365323/cg6	O2	20.37 CO2	19.07	0	0
scg6	11/18/2013	10:24:45	9.92	9.50	CC365323/cg6	O2	20.37 CO2	19.07	0	0
scg6	11/18/2013	10:25:00	10.47	9.51	CC365323/cg6	O2	20.37 CO2	19.07	0	0
scg6	11/18/2013	10:25:15	18.91	11.32	CC365323/cg6	O2	20.37 CO2	19.07	0	0
scg6	11/18/2013	10:25:30	20.13	15.90	CC365323/cg6	O2	20.37 CO2	19.07	0	0
scg6	11/18/2013	10:25:45	20.19	17.94	CC365323/cg6	O2	20.37 CO2	19.07	0	0
scg6	11/18/2013	10:26:00	20.19	18.50	CC365323/cg6	O2	20.37 CO2	19.07	0	0
scg6	11/18/2013	10:26:15	20.22	18.61	CC365323/cg6	O2	20.37 CO2	19.07	0	0
co2span1	11/18/2013	10:26:15	20.22	18.61	CC365323/cg6	O2	20.37 CO2	19.07	0	0
run3l	11/18/2013	10:27:00	20.21	18.73						
run3l	11/18/2013	10:27:15	18.37	18.70						
run3l	11/18/2013	10:27:30	4.77	18.20						
run3	11/18/2013	10:27:45	3.33	17.26						
run3	11/18/2013	10:28:00	3.35	17.05						
run3	11/18/2013	10:28:15	3.32	16.98						
run3	11/18/2013	10:28:30	3.30	16.92						
run3	11/18/2013	10:28:45	3.31	16.91						
run3	11/18/2013	10:29:00	3.33	16.92						
run3	11/18/2013	10:29:15	3.54	16.89						
run3	11/18/2013	10:29:30	3.59	16.72						
run3	11/18/2013	10:29:45	3.47	16.64						
run3	11/18/2013	10:30:00	3.39	16.71						
run3	11/18/2013	10:30:15	3.49	16.79						
run3	11/18/2013	10:30:30	3.61	16.72						
run3	11/18/2013	10:30:45	3.37	16.68						
run3	11/18/2013	10:31:00	3.25	16.82						
run3	11/18/2013	10:31:15	3.37	16.90						
run3	11/18/2013	10:31:30	3.44	16.86						
run3	11/18/2013	10:31:45	3.71	16.75						
run3	11/18/2013	10:32:00	3.82	16.55						
run3	11/18/2013	10:32:15	3.65	16.41						
run3	11/18/2013	10:32:30	3.46	16.53						
run3	11/18/2013	10:32:45	3.50	16.72						
run3	11/18/2013	10:33:00	3.49	16.74						
run3	11/18/2013	10:33:15	3.55	16.74						
run3	11/18/2013	10:33:30	3.68	16.62						
run3	11/18/2013	10:33:45	3.62	16.52						
run3	11/18/2013	10:34:00	3.46	16.61						
run3	11/18/2013	10:34:15	3.42	16.73						
run3	11/18/2013	10:34:30	3.39	16.81						
run3	11/18/2013	10:34:45	3.44	16.83						
run3	11/18/2013	10:35:00	3.56	16.72						
run3	11/18/2013	10:35:15	3.60	16.65						
run3	11/18/2013	10:35:30	3.56	16.63						
run3	11/18/2013	10:35:45	3.58	16.65						
run3	11/18/2013	10:36:00	3.44	16.69						
run3	11/18/2013	10:36:15	3.42	16.73						
run3	11/18/2013	10:36:30	3.44	16.74						
run3	11/18/2013	10:36:45	3.34	16.81						
run3	11/18/2013	10:37:00	3.34	16.87						
run3	11/18/2013	10:37:15	3.25	16.92						
run3	11/18/2013	10:37:30	3.24	16.96						
run3	11/18/2013	10:37:45	3.20	16.95						
run3	11/18/2013	10:38:00	3.05	17.04						
run3	11/18/2013	10:38:15	2.90	17.22						
run3	11/18/2013	10:38:30	3.12	17.28						
run3	11/18/2013	10:38:45	3.24	17.13						
run3	11/18/2013	10:39:00	3.19	16.99						
run3	11/18/2013	10:39:15	3.16	17.07						
run3	11/18/2013	10:39:30	3.22	17.08						
run3	11/18/2013	10:39:45	3.22	17.04						
run3	11/18/2013	10:40:00	3.12	17.05						
run3	11/18/2013	10:40:15	3.17	17.07						
run3	11/18/2013	10:40:30	3.27	17.06						
run3	11/18/2013	10:40:45	3.28	17.02						
run3	11/18/2013	10:41:00	3.27	17.02						
run3	11/18/2013	10:41:15	3.26	16.99						
run3	11/18/2013	10:41:30	3.32	16.95						
run3	11/18/2013	10:41:45	3.29	16.94						
run3	11/18/2013	10:42:00	3.25	16.97						
run3	11/18/2013	10:42:15	3.25	17.03						
run3	11/18/2013	10:42:30	3.22	17.00						
run3	11/18/2013	10:42:45	3.32	16.96						
run3	11/18/2013	10:43:00	3.34	16.94						
run3	11/18/2013	10:43:15	3.32	16.93						
run3	11/18/2013	10:43:30	3.34	16.94						
run3	11/18/2013	10:43:45	3.32	16.92						
run3	11/18/2013	10:44:00	3.49	16.87						
run3	11/18/2013	10:44:15	3.59	16.74						
run3	11/18/2013	10:44:30	3.25	16.73						
run3	11/18/2013	10:44:45	3.16	17.01						
run3	11/18/2013	10:45:00	3.28	17.06						
run3	11/18/2013	10:45:15	3.17	16.95						
run3	11/18/2013	10:45:30	3.04	17.07						
run3	11/18/2013	10:45:45	3.17	17.18						
run3	11/18/2013	10:46:00	3.30	17.10						

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run3	11/18/2013	10:46:15	3.35	16.95
run3	11/18/2013	10:46:30	3.44	16.84
run3	11/18/2013	10:46:45	3.40	16.82
run3	11/18/2013	10:47:00	3.29	16.87
run3	11/18/2013	10:47:15	3.20	16.97
run3	11/18/2013	10:47:30	3.25	17.03
run3	11/18/2013	10:47:45	3.45	16.92
run3	11/18/2013	10:48:00	3.58	16.80
run3	11/18/2013	10:48:15	3.60	16.67
run3	11/18/2013	10:48:30	3.52	16.69
run3	11/18/2013	10:48:45	3.44	16.72
run3	11/18/2013	10:49:00	3.51	16.71
run3	11/18/2013	10:49:15	3.51	16.73
run3	11/18/2013	10:49:30	3.62	16.71
run3	11/18/2013	10:49:45	3.56	16.65
run3	11/18/2013	10:50:00	3.46	16.68
run3	11/18/2013	10:50:15	3.46	16.71
run3	11/18/2013	10:50:30	3.32	16.79
run3	11/18/2013	10:50:45	3.26	16.93
run3	11/18/2013	10:51:00	3.41	16.97
run3	11/18/2013	10:51:15	3.46	16.81
run3	11/18/2013	10:51:30	3.53	16.73
run3	11/18/2013	10:51:45	3.67	16.69
run3	11/18/2013	10:52:00	3.72	16.61
run3	11/18/2013	10:52:15	3.70	16.54
run3	11/18/2013	10:52:30	3.49	16.56
run3	11/18/2013	10:52:45	3.45	16.70
run3	11/18/2013	10:53:00	3.32	16.82
run3	11/18/2013	10:53:15	3.22	16.97
run3	11/18/2013	10:53:30	3.26	17.01
run3	11/18/2013	10:53:45	3.27	16.95
run3	11/18/2013	10:54:00	3.40	16.96
run3	11/18/2013	10:54:15	3.43	16.88
run3	11/18/2013	10:54:30	3.37	16.84
run3	11/18/2013	10:54:45	3.37	16.87
run3	11/18/2013	10:55:00	3.42	16.83
run3	11/18/2013	10:55:15	3.38	16.82
run3	11/18/2013	10:55:30	3.31	16.90
run3	11/18/2013	10:55:45	3.31	16.95
run3	11/18/2013	10:56:00	3.23	16.93
run3	11/18/2013	10:56:15	3.11	16.98
run3	11/18/2013	10:56:30	2.96	17.14
run3	11/18/2013	10:56:45	3.07	17.27
run3	11/18/2013	10:57:00	3.29	17.19
run3	11/18/2013	10:57:15	3.44	16.94
run3	11/18/2013	10:57:30	3.32	16.85
run3	11/18/2013	10:57:45	3.34	16.92
run3	11/18/2013	10:58:00	3.22	16.97
run3	11/18/2013	10:58:15	3.31	17.04
run3	11/18/2013	10:58:30	3.46	16.90
run3	11/18/2013	10:58:45	3.62	16.75
run3	11/18/2013	10:59:00	3.64	16.66
run3	11/18/2013	10:59:15	3.68	16.62
run3	11/18/2013	10:59:30	3.65	16.56
run3	11/18/2013	10:59:45	3.55	16.55
run3	11/18/2013	11:00:00	3.63	16.64
run3	11/18/2013	11:00:15	3.62	16.62
run3	11/18/2013	11:00:30	3.43	16.67
run3	11/18/2013	11:00:45	3.32	16.80
run3	11/18/2013	11:01:00	3.34	16.86
run3	11/18/2013	11:01:15	3.32	16.90
run3	11/18/2013	11:01:30	3.32	16.94
run3	11/18/2013	11:01:45	3.21	16.98
run3	11/18/2013	11:02:00	3.28	16.99
run3	11/18/2013	11:02:15	3.27	16.93
run3	11/18/2013	11:02:30	3.28	16.97
run3	11/18/2013	11:02:45	3.35	16.97
averun3	11/18/2013	10:30:00	3.38	16.85
scg6	11/18/2013	11:03:15	3.07	16.98
scg6	11/18/2013	11:03:30	2.82	17.13
scg6	11/18/2013	11:03:45	3.26	17.35
scg6	11/18/2013	11:04:00	17.11	17.11
scg6	11/18/2013	11:04:15	20.05	17.14
scg6	11/18/2013	11:04:30	20.14	18.11
scg6	11/18/2013	11:04:45	20.15	18.54
scg6	11/18/2013	11:05:00	20.21	18.73
scg6	11/18/2013	11:05:15	20.20	18.79
scg6	11/18/2013	11:05:30	20.22	18.81
scg6	11/18/2013	11:05:45	20.21	18.78
scg6	11/18/2013	11:06:00	20.20	18.75
scg6	11/18/2013	11:06:15	20.23	18.78
scg6	11/18/2013	11:06:30	20.20	18.82
scg6	11/18/2013	11:06:45	20.22	18.82
scg6	11/18/2013	11:07:00	20.24	18.78
scg6	11/18/2013	11:07:15	20.23	18.75
scg6	11/18/2013	11:07:30	20.23	18.79
scg6	11/18/2013	11:07:45	20.24	18.83
scg6	11/18/2013	11:08:00	20.23	18.81
scg6	11/18/2013	11:08:15	20.24	18.76
scg6	11/18/2013	11:08:30	20.23	18.75
scg6	11/18/2013	11:08:45	20.21	18.79
co2span1	11/18/2013	11:08:45	20.21	18.79
scg5	11/18/2013	11:09:00	20.24	18.81
scg5	11/18/2013	11:09:15	20.22	18.79
scg5	11/18/2013	11:09:30	20.25	18.75
scg5	11/18/2013	11:09:45	20.24	18.78
scg5	11/18/2013	11:10:00	14.56	18.37
scg5	11/18/2013	11:10:15	10.07	13.41

name	O2		CO2							
sn	1009241630		1009241630							
offset	0		0							
fullscale	100		20							
train	1		1							
gastype	o2 3a		co2 3a							
scg5	11/18/2013	11:10:30	10.04	10.22	CC427756/cg5	O2	10.03	CO2	9.624	0 0
scg5	11/18/2013	11:10:45	10.01	9.70	CC427756/cg5	O2	10.03	CO2	9.624	0 0
scg5	11/18/2013	11:11:00	10.00	9.65	CC427756/cg5	O2	10.03	CO2	9.624	0 0
scg5	11/18/2013	11:11:15	9.99	9.64	CC427756/cg5	O2	10.03	CO2	9.624	0 0
scg5	11/18/2013	11:11:30	10.03	9.61	CC427756/cg5	O2	10.03	CO2	9.624	0 0
scg5	11/18/2013	11:11:45	9.98	9.58	CC427756/cg5	O2	10.03	CO2	9.624	0 0
o2span1	11/18/2013	11:11:45	9.98	9.58	CC427756/cg5	O2	10.03	CO2	9.624	0 0
scg1	11/18/2013	11:12:15	10.01	9.59	CC281765/cg1	CO	0	0 CO2	0 02	0
scg1	11/18/2013	11:12:30	9.96	9.60	CC281765/cg1	CO	0	0 CO2	0 02	0
scg1	11/18/2013	11:12:45	9.96	9.57	CC281765/cg1	CO	0	0 CO2	0 02	0
scg1	11/18/2013	11:13:00	7.77	9.42	CC281765/cg1	CO	0	0 CO2	0 02	0
scg1	11/18/2013	11:13:15	0.47	6.24	CC281765/cg1	CO	0	0 CO2	0 02	0
scg1	11/18/2013	11:13:30	0.13	1.42	CC281765/cg1	CO	0	0 CO2	0 02	0
scg1	11/18/2013	11:13:45	0.10	0.27	CC281765/cg1	CO	0	0 CO2	0 02	0
scg1	11/18/2013	11:14:00	0.09	0.13	CC281765/cg1	CO	0	0 CO2	0 02	0
co2zero1	11/18/2013	11:14:00	0.09	0.13	CC281765/cg1	CO	0	0 CO2	0 02	0
o2zero1	11/18/2013	11:14:00	0.09	0.13	CC281765/cg1	CO	0	0 CO2	0 02	0

Low Load Flow

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 1	Run Start Date/Time: 11/18/2013 1248	End Date/Time: 11/18/2013 1254

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 332.3
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.6
CO2/O2 Reference Method: 3A	Percent H2O: 21.9
Molecular Weight (Dry): 30.85	Molecular Weight (Wet): 28.03
Mean Sq. Roots of Diff. Pressure (in H2O): 0.676	
Run Velocity (ft/sec): 47.30	
Stack Flow (scfh): 12668641	Reference Method Value (scfh): 12669000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	0.450	333.0	0.840	
002	A	PT-22	0.520	333.0	0.840	
003	A	PT-22	0.430	333.0	0.840	
004	B	PT-22	0.420	332.0	0.840	
005	B	PT-22	0.450	332.0	0.840	
006	B	PT-22	0.380	332.0	0.840	
007	C	PT-22	0.490	332.0	0.840	
008	C	PT-22	0.480	332.0	0.840	
009	C	PT-22	0.390	332.0	0.840	
010	D	PT-22	0.470	332.0	0.840	
011	D	PT-22	0.520	332.0	0.840	
012	D	PT-22	0.490	332.0	0.840	

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ORIS Code:	000	Facility:	GAINESVILLE RENEWABLE ENERGY CENTER
City/State:	GAINESVILLE, FL	Company:	FAGEN
Unit/Stack ID:	1	System ID:	001
Test No.:	1	Start Date/Time:	11/17/2013 1014
Test Results:	Pass	Relative Accuracy:	5.22
		Parameter:	FLOW
		End Date/Time:	11/18/2013 1544
		BAF:	1.000

Operating Level:	L	Reference Method:	2
Run Number:	2 (Not Used)	Run Start Date/Time:	11/18/2013 1255
		End Date/Time:	11/18/2013 1300

Number of Traverse Points:	12	Mean Stack Temperature (F):	333.1
Barometric Pressure (in Hg):	29.77	Stack Static Pressure (in H2O):	-0.53
Pressure Measurement Device:	Fluid Manometer		
Percent CO2 (Dry):	16.9	Percent O2 (Dry):	3.6
CO2/O2 Reference Method:	3A	Percent H2O:	21.9
Molecular Weight (Dry):	30.85	Molecular Weight (Wet):	28.03
Mean Sq. Roots of Diff. Pressure (in H2O):	0.657		
Run Velocity (ft/sec):	46.05		
Stack Flow (scfh):	12319760	Reference Method Value (scfh):	12320000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	0.490	334.0	0.840	
002	A	PT-22	0.510	333.0	0.840	
003	A	PT-22	0.490	333.0	0.840	
004	B	PT-22	0.480	333.0	0.840	
005	B	PT-22	0.490	333.0	0.840	
006	B	PT-22	0.410	333.0	0.840	
007	C	PT-22	0.430	333.0	0.840	
008	C	PT-22	0.410	333.0	0.840	
009	C	PT-22	0.340	333.0	0.840	
010	D	PT-22	0.440	333.0	0.840	
011	D	PT-22	0.400	333.0	0.840	
012	D	PT-22	0.320	333.0	0.840	

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 3 (Not Used)	Run Start Date/Time: 11/18/2013 1301	End Date/Time: 11/18/2013 1307

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 332.8
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.6
CO2/O2 Reference Method: 3A	Percent H2O: 21.9
Molecular Weight (Dry): 30.85	Molecular Weight (Wet): 28.03
Mean Sq. Roots of Diff. Pressure (in H2O): 0.642	
Run Velocity (ft/sec): 45.00	
Stack Flow (scfh): 12044368	Reference Method Value (scfh): 12044000

Trav. Point ID	Port ID	Probe ID	Avg. Diff. Stack Pressure (in H2O)	Temp. (F)	Probe Cp Coeff.
001	A	PT-22	0.440	334.0	0.840
002	A	PT-22	0.410	334.0	0.840
003	A	PT-22	0.350	334.0	0.840
004	B	PT-22	0.380	333.0	0.840
005	B	PT-22	0.390	333.0	0.840
006	B	PT-22	0.320	333.0	0.840
007	C	PT-22	0.430	332.0	0.840
008	C	PT-22	0.470	332.0	0.840
009	C	PT-22	0.350	332.0	0.840
010	D	PT-22	0.490	332.0	0.840
011	D	PT-22	0.540	332.0	0.840
012	D	PT-22	0.410	332.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

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Operating Level: L	Reference Method: 2	
Run Number: 4 (Not Used)	Run Start Date/Time: 11/18/2013 1331	End Date/Time: 11/18/2013 1337

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.8
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.6
CO2/O2 Reference Method: 3A	Percent H2O: 20.7
Molecular Weight (Dry): 30.85	Molecular Weight (Wet): 28.19
Mean Sq. Roots of Diff. Pressure (in H2O): 0.670	
Run Velocity (ft/sec): 46.75	
Stack Flow (scfh): 12544357	Reference Method Value (scfh): 12544000

Trav.	Avg.				
Point	Port	Probe	Diff. Pressure	Stack Temp.	Probe Cp
ID	ID	ID	(in H2O)	(F)	Coeff.
001	A	PT-22	0.500	330.0	0.840
002	A	PT-22	0.560	330.0	0.840
003	A	PT-22	0.450	330.0	0.840
004	B	PT-22	0.480	331.0	0.840
005	B	PT-22	0.470	331.0	0.840
006	B	PT-22	0.380	331.0	0.840
007	C	PT-22	0.470	331.0	0.840
008	C	PT-22	0.440	331.0	0.840
009	C	PT-22	0.360	331.0	0.840
010	D	PT-22	0.480	331.0	0.840
011	D	PT-22	0.450	331.0	0.840
012	D	PT-22	0.370	331.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 5	Run Start Date/Time: 11/18/2013 1338	End Date/Time: 11/18/2013 1343

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 331.2
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.6
CO2/O2 Reference Method: 3A	Percent H2O: 20.7
Molecular Weight (Dry): 30.85	Molecular Weight (Wet): 28.19
Mean Sq. Roots of Diff. Pressure (in H2O): 0.739	
Run Velocity (ft/sec): 51.56	
Stack Flow (scfh): 13829583	Reference Method Value (scfh): 13830000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	0.480	331.0	0.840	
002	A	PT-22	0.510	331.0	0.840	
003	A	PT-22	0.410	331.0	0.840	
004	B	PT-22	0.580	330.0	0.840	
005	B	PT-22	0.590	331.0	0.840	
006	B	PT-22	0.480	331.0	0.840	
007	C	PT-22	0.600	331.0	0.840	
008	C	PT-22	0.610	331.0	0.840	
009	C	PT-22	0.520	331.0	0.840	
010	D	PT-22	0.620	332.0	0.840	
011	D	PT-22	0.650	332.0	0.840	
012	D	PT-22	0.530	332.0	0.840	

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 6	Run Start Date/Time: 11/18/2013 1345	End Date/Time: 11/18/2013 1352

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 331.0
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.6
CO2/O2 Reference Method: 3A	Percent H2O: 20.7
Molecular Weight (Dry): 30.85	Molecular Weight (Wet): 28.19
Mean Sq. Roots of Diff. Pressure (in H2O): 0.739	
Run Velocity (ft/sec): 51.54	
Stack Flow (scfh): 13826914	Reference Method Value (scfh): 13827000

Trav.	Avg.				
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure (in H2O)	(F)	Coeff.
001	A	PT-22	0.660	332.0	0.840
002	A	PT-22	0.610	332.0	0.840
003	A	PT-22	0.570	332.0	0.840
004	B	PT-22	0.640	331.0	0.840
005	B	PT-22	0.600	331.0	0.840
006	B	PT-22	0.550	331.0	0.840
007	C	PT-22	0.550	330.0	0.840
008	C	PT-22	0.550	330.0	0.840
009	C	PT-22	0.530	330.0	0.840
010	D	PT-22	0.460	331.0	0.840
011	D	PT-22	0.440	331.0	0.840
012	D	PT-22	0.420	331.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 7	Run Start Date/Time: 11/18/2013 1418	End Date/Time: 11/18/2013 1425

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.3
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.5
CO2/O2 Reference Method: 3A	Percent H2O: 22.2
Molecular Weight (Dry): 30.84	Molecular Weight (Wet): 27.99
Mean Sq. Roots of Diff. Pressure (in H2O): 0.780	
Run Velocity (ft/sec): 54.57	
Stack Flow (scfh): 14653098	Reference Method Value (scfh): 14653000

Trav.	Avg.				
Point	Port	Probe	Diff. Pressure	Stack Temp.	Probe Cp
ID	ID	ID	(in H2O)	(F)	Coeff.
001	A	PT-22	0.590	331.0	0.840
002	A	PT-22	0.640	331.0	0.840
003	A	PT-22	0.530	331.0	0.840
004	B	PT-22	0.560	330.0	0.840
005	B	PT-22	0.580	330.0	0.840
006	B	PT-22	0.490	330.0	0.840
007	C	PT-22	0.660	330.0	0.840
008	C	PT-22	0.620	330.0	0.840
009	C	PT-22	0.560	330.0	0.840
010	D	PT-22	0.690	330.0	0.840
011	D	PT-22	0.710	330.0	0.840
012	D	PT-22	0.690	330.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 8	Run Start Date/Time: 11/18/2013 1426	End Date/Time: 11/18/2013 1432

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.3
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.5
CO2/O2 Reference Method: 3A	Percent H2O: 22.2
Molecular Weight (Dry): 30.84	Molecular Weight (Wet): 27.99
Mean Sq. Roots of Diff. Pressure (in H2O): 0.782	
Run Velocity (ft/sec): 54.74	
Stack Flow (scfh): 14699117	Reference Method Value (scfh): 14699000

Trav.	Avg.				
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure (in H2O)	(F)	Coeff.
001	A	PT-22	0.690	331.0	0.840
002	A	PT-22	0.670	331.0	0.840
003	A	PT-22	0.660	331.0	0.840
004	B	PT-22	0.650	330.0	0.840
005	B	PT-22	0.650	330.0	0.840
006	B	PT-22	0.540	330.0	0.840
007	C	PT-22	0.610	330.0	0.840
008	C	PT-22	0.610	330.0	0.840
009	C	PT-22	0.500	330.0	0.840
010	D	PT-22	0.600	330.0	0.840
011	D	PT-22	0.640	330.0	0.840
012	D	PT-22	0.540	330.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 9	Run Start Date/Time: 11/18/2013 1433	End Date/Time: 11/18/2013 1440

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.3
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.5
CO2/O2 Reference Method: 3A	Percent H2O: 22.2
Molecular Weight (Dry): 30.84	Molecular Weight (Wet): 27.99
Mean Sq. Roots of Diff. Pressure (in H2O): 0.791	
Run Velocity (ft/sec): 55.33	
Stack Flow (scfh): 14857565	Reference Method Value (scfh): 14858000

Trav. Point ID	Port ID	Probe ID	Avg. Diff. Stack Pressure (in H2O)	Temp. (F)	Probe Cp Coeff.
001	A	PT-22	0.640	330.0	0.840
002	A	PT-22	0.630	330.0	0.840
003	A	PT-22	0.530	330.0	0.840
004	B	PT-22	0.610	330.0	0.840
005	B	PT-22	0.610	330.0	0.840
006	B	PT-22	0.540	330.0	0.840
007	C	PT-22	0.660	330.0	0.840
008	C	PT-22	0.680	330.0	0.840
009	C	PT-22	0.550	330.0	0.840
010	D	PT-22	0.720	331.0	0.840
011	D	PT-22	0.700	331.0	0.840
012	D	PT-22	0.650	331.0	0.840

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ORIS Code:	000	Facility:	GAINESVILLE RENEWABLE ENERGY CENTER
City/State:	GAINESVILLE, FL	Company:	FAGEN
Unit/Stack ID:	1	System ID:	001
Test No.:	1	Start Date/Time:	11/17/2013 1014
Test Results:	Pass	Relative Accuracy:	5.22
		Parameter:	FLOW
		End Date/Time:	11/18/2013 1544
		BAF:	1.000

=====

Operating Level:	L	Reference Method:	2
Run Number:	10	Run Start Date/Time:	11/18/2013 1512
		End Date/Time:	11/18/2013 1522

=====

Number of Traverse Points:	12	Mean Stack Temperature (F):	329.4
Barometric Pressure (in Hg):	29.77	Stack Static Pressure (in H2O):	-0.53
Pressure Measurement Device:	Fluid Manometer		
Percent CO2 (Dry):	16.9	Percent O2 (Dry):	3.5
CO2/O2 Reference Method:	3A	Percent H2O:	23.0
Molecular Weight (Dry):	30.84	Molecular Weight (Wet):	27.89
Mean Sq. Roots of Diff. Pressure (in H2O):	0.793		
Run Velocity (ft/sec):	55.57		
Stack Flow (scfh):	14937460	Reference Method Value (scfh):	14937000

Trav.			Avg.			
Point	Port	Probe	Diff.	Stack	Probe	
ID	ID	ID	Pressure	Temp.	Cp	
			(in H2O)	(F)	Coeff.	
001	A	PT-22	0.720	328.0	0.840	
002	A	PT-22	0.760	329.0	0.840	
003	A	PT-22	0.660	329.0	0.840	
004	B	PT-22	0.690	329.0	0.840	
005	B	PT-22	0.650	329.0	0.840	
006	B	PT-22	0.570	329.0	0.840	
007	C	PT-22	0.590	330.0	0.840	
008	C	PT-22	0.600	330.0	0.840	
009	C	PT-22	0.510	330.0	0.840	
010	D	PT-22	0.620	330.0	0.840	
011	D	PT-22	0.640	330.0	0.840	
012	D	PT-22	0.560	330.0	0.840	

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 11	Run Start Date/Time: 11/18/2013 1523	End Date/Time: 11/18/2013 1533

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.3
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.5
CO2/O2 Reference Method: 3A	Percent H2O: 23.0
Molecular Weight (Dry): 30.84	Molecular Weight (Wet): 27.89
Mean Sq. Roots of Diff. Pressure (in H2O): 0.790	
Run Velocity (ft/sec): 55.36	
Stack Flow (scfh): 14864469	Reference Method Value (scfh): 14864000

Trav.		Avg.			
Point	Port	Probe	Diff. Stack	Temp.	Cp
ID	ID	ID	Pressure	(F)	Coeff.
			(in H2O)		
001	A	PT-22	0.670	331.0	0.840
002	A	PT-22	0.650	331.0	0.840
003	A	PT-22	0.530	331.0	0.840
004	B	PT-22	0.600	330.0	0.840
005	B	PT-22	0.590	330.0	0.840
006	B	PT-22	0.540	330.0	0.840
007	C	PT-22	0.670	330.0	0.840
008	C	PT-22	0.660	330.0	0.840
009	C	PT-22	0.540	330.0	0.840
010	D	PT-22	0.700	330.0	0.840
011	D	PT-22	0.700	330.0	0.840
012	D	PT-22	0.650	330.0	0.840

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ORIS Code: 000	Facility: GAINESVILLE RENEWABLE ENERGY CENTER	
City/State: GAINESVILLE, FL	Company: FAGEN	
Unit/Stack ID: 1	System ID: 001	Parameter: FLOW
Test No.: 1	Start Date/Time: 11/17/2013 1014	End Date/Time: 11/18/2013 1544
Test Results: Pass	Relative Accuracy: 5.22	BAF: 1.000

=====

Operating Level: L	Reference Method: 2	
Run Number: 12	Run Start Date/Time: 11/18/2013 1534	End Date/Time: 11/18/2013 1544

=====

Number of Traverse Points: 12	Mean Stack Temperature (F): 330.0
Barometric Pressure (in Hg): 29.77	Stack Static Pressure (in H2O): -0.53
Pressure Measurement Device: Fluid Manometer	
Percent CO2 (Dry): 16.9	Percent O2 (Dry): 3.5
CO2/O2 Reference Method: 3A	Percent H2O: 23.0
Molecular Weight (Dry): 30.84	Molecular Weight (Wet): 27.89
Mean Sq. Roots of Diff. Pressure (in H2O): 0.797	
Run Velocity (ft/sec): 55.85	
Stack Flow (scfh): 15001942	Reference Method Value (scfh): 15002000

Trav. Point ID	Port ID	Probe ID	Avg. Diff. Stack Pressure (in H2O)	Temp. (F)	Probe Cp Coeff.
001	A	PT-22	0.710	330.0	0.840
002	A	PT-22	0.740	330.0	0.840
003	A	PT-22	0.640	330.0	0.840
004	B	PT-22	0.690	330.0	0.840
005	B	PT-22	0.660	330.0	0.840
006	B	PT-22	0.560	330.0	0.840
007	C	PT-22	0.610	330.0	0.840
008	C	PT-22	0.620	330.0	0.840
009	C	PT-22	0.520	330.0	0.840
010	D	PT-22	0.680	330.0	0.840
011	D	PT-22	0.670	330.0	0.840
012	D	PT-22	0.540	330.0	0.840

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: lore
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH
Date: 11/18/13
Operating Level: low
Run Number: 1
Run Start Time: 1248
Run Stop Time: 1255 1254

Pitot ID: PT-22
Pitot C_p : 0.84
Stack Area: ~~112.3~~ 112.31
Traverse Points: 12

Bar Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9
 % O₂: 3.6
 % Moisture: 21.9

Initial Pitot Leak Check: 0.00 @ 3.8
Final Pitot Leak Check: 0.00 @ 3.9

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Gree
Unit No.: 1
e Location: Stack
Operator(s): MS/AH

Pitot ID: PT-22
Pitot Cp: 0.84
Wing Area: 112.31
No. of Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9

% O₂: 3.6

% Moisture: 21.9

Initial Pitot Leak Check: 0.00 @ 3.7

Final Pitot Leak Check: 0.00 @ 4.1

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: GREC
Unit No.: 1
e Location: stack
Operator(s): MS/AH

Pitot ID: PT-22
Pitot C_p : 0.84
Stack Area: 112.31
Traverse Points: 12

Date: 11/18/13
Operating Level: Low
Run Number: 3

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9
% O₂: 3.6
% Moisture: 21.9

Run Start Time: 1301
Run Stop Time: 1307

Initial Pitot Leak Check: 0.00 @ 4.1
Final Pitot Leak Check: 0.00 @ 4.9

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Greene
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH

Date: 11/18/13
Operating Level: Low
Run Number: 4

Run Start Time: 1331
Run Stop Time: 1337

Pitot ID:	PT-22
Pitot C_p :	0.84
Stack Area:	112.31
Traverse Points:	12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9
% O₂: 3.6
% Moisture: 20.7

Initial Pitot Leak Check: 0.00 @ 4.9
Final Pitot Leak Check: 0.00 @ 6.1

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen

Facility: Greene

Unit No.: 1

Sample Location: Stack

Operator(s): MS/AH

Date: 11/18/13

Operating Level: Low

Run Number: 5

Run Start Time: 1338

Run Stop Time: 134.3

Pitot ID: PT-22

Pitot C_p : 0.84

Stack Area: 112.31

Traverse Points: 12

Bar. Press. (in Hg): 29.77

Static Press. (in H₂O): -0.53

% CO₂: 16.9

$$\frac{0.00031}{0.00031}$$

% Moisture: 20.7

Initial Pitot Leak Check: *0.00 PSI*

Final Pitot Leak Check: 0.00 @ 5.4

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Core
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH
Date: 11/18/13
Operating Level: Low
Run Number: 6
Run Start Time: 1345
Run Stop Time: 1357

Pitot ID: PT-22
Pitot C_p : 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9
 % O₂: 3.6
 % Moisture: 20.7

Initial Pitot Leak Check: 0.00 @ 5.4
Final Pitot Leak Check: 0.00 @ 5.1

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: 6REL
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AH
Date: 11/18/13
Operating Level: Low
Run Number: 7
Run Start Time: 1418
Run Stop Time: 1425

Pitot ID: PT-22
Pitot C_p : 0.84
Stack Area: 112.31
Traverse Points: 12

Bar Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9
% O₂: 3.5
% Moisture: 22.2

Initial Pitot Leak Check: 0.00 @ 5.4
Final Pitot Leak Check: 0.00 @ 3.8

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Brec
Unit No.: 1
Sample Location: stack
Operator(s): ms/AH
Date: 11/18/13
Operating Level: Low
Run Number: 8
Run Start Time: 1426
Run Stop Time: 1432

Pitot ID: PT-22
Pitot C_p: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9
% O₂: 3.5
% Moisture: 22.2

Initial Pitot Leak Check: 0.00 @ 3.8
Final Pitot Leak Check: 0.00 @ 3.4

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: BREC
Unit No.: 1
Sample Location: Stack
Operator(s): ms/AH
Date: 11/18/13
Operating Level: Low
Run Number: 9
Run Start Time: 1433
Run Stop Time: 1440

Pitot ID:	PT-22
Pitot C_p :	0.84
Stack Area:	112.31
Traverse Points:	12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9
 % O₂: 3.5
 % Moisture: 22.2

Initial Pitot Leak Check: 0.00 @ 3.4
Final Pitot Leak Check: 0.00 @ 3.8

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: Grac
Unit No.: 1
Sample Location: Stack
Operator(s): ms/ATH
Date: 11/10/13
Operating Level: Low
Run Number: 10
Run Start Time: 1512
Run Stop Time: 1522

Pitot ID: PT-22
Pitot Cp: 0.84
Stack Area: 112.31
Traverse Points: 12
Bar. Press. (in Hg): 29.77
C. Press. (in H₂O): -0.53
% CO₂: 16.9
% O₂: 3.5
% Moisture: 23.0
Pitot Leak Check: 0.00 @ 4.3
Pitot Leak Check: 0.00 @ 4.4

Velocity and Volumetric Stack Flow Field Data

[illegible]

Pitot ID: PT-22
Pitot C_p: 0.84
Stack Area: 112.31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9
 % O₂: 3.5
 % Moisture: 23.0

Initial Pitot Leak Check: 0.00 @ 4.4
Final Pitot Leak Check: 0.00 @ 4.8

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc. USEPA Method 2 Field Data Sheet

Company: Fagen
Facility: GREC
Unit No.: 1
Sample Location: Stack
Operator(s): MS/AM

Date: 11/18/13
Operating Level: Low
Run Number: 12

Run Start Time: 1534
Run Stop Time: 1544

Pitot ID: Pt-22
Pitot C_p: 084
Stack Area: 112-31
Traverse Points: 12

Bar. Press. (in Hg): 29.77
Static Press. (in H₂O): -0.53

% CO₂: 16.9

% O₂: 3,5

% Moisture: 23.0

Initial Pitot Leak Check: 0.00 @ 4.8

Final Pitot Leak Check: 0.00 @ 5.4

Velocity and Volumetric Stack Flow Field Data

[illegible]

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: Fagen
 Facility: GREC
 Unit No.: 1
 Sample Location: Stack
 Date: 11/18/2013

Bar. Press (in Hg): 29.77
 Static Press (in H2O): -
 Meter Box Number: CEMS7MB
 Ini. Leak Rate: 0.000 @ 5
 Fin. Leak Rate: 0.000 @ 5

Meter Y_i: 0.976
 Run Number: 4
 Run Duration (min): 30
 Load Level: Low

Point	Clock Time	Sample Time	Volume (ft3)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	12:48	0	470.425	1.80	74	3.0	59
2	12:58	10	478.000	1.80	75	3.0	51
3	13:08	20	485.400	1.80	78	3.0	56
End	13:18	30	492.901				

Averages:

1.80	76	3.0	55

 Volume Collected: 22.476

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	545.4	718.0	614.4	881.5
Final Weight	646.9	734.2	616.5	889.3
Weight Gain:	101.5	16.2	2.1	7.8

Total Weight Gain: 127.6

Water Vapor V_{wc(std)}: 5.65
 Silica Gel Water Vapor V_{wsg(std)}: 0.37
 GAS SAMPLED (DSCF) V_{m(std)}: 21.51
 MOISTURE(% VOL) B_{ws}: 21.86

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.77</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-</u>	Run Number: <u>5</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>30</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u></u>	Load Level: <u>Low</u>
Date: <u>11/18/2013</u>	Fin. Leak Rate: <u></u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	13:31	0	493.091	1.80	78	3.0	61
2	13:41	10	500.400	1.80	80	3.0	59
3	13:51	20	508.200	1.80	82	3.0	62
End	14:01	30	515.814				

Averages:	1.80	80	3.0	61
Volume Collected: 22.723				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	646.9	734.2	616.5	889.3
Final Weight	746.0	748.2	617.3	894.7
Weight Gain:	99.1	14.0	0.8	5.4

Total Weight Gain: 119.3

Water Vapor V _{wc(std)} :	5.37
Silica Gel Water Vapor V _{wsg(std)} :	0.25
GAS SAMPLED (DSCF) V _{m(std)} :	21.57
MOISTURE(% VOL) B _{ws} :	20.69

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.77</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-</u>	Run Number: <u>6</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>30</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.000 @ 7</u>	Load Level: <u>Low</u>
Date: <u>11/18/2013</u>	Fin. Leak Rate: <u>0.000 @ 6</u>	

Point	Clock Time	Sample Time	Volume (ft3)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	14:18	0	516.005	1.80	82	3.0	61
2	14:28	10	523.600	1.80	83	3.0	63
3	14:38	20	531.400	1.80	84	3.0	65
End	14:48	30	538.756				

Averages:	1.80	83	3.0	63
Volume Collected: 22.751				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	570.0	748.2	617.3	894.7
Final Weight	673.9	765.4	619.2	902.0
Weight Gain:	103.9	17.2	1.9	7.3

Total Weight Gain: 130.3

Water Vapor V _{wc(std)} :	5.80
Silica Gel Water Vapor V _{wsg(std)} :	0.34
GAS SAMPLED (DSCF) V _{m(std)} :	21.47
MOISTURE(% VOL) B _{ws} :	22.24

C.E.M. Solutions, Inc.
Method 4 Field Data Results

Company: <u>Fagen</u>	Bar. Press (in Hg): <u>29.77</u>	Meter Y _i : <u>0.976</u>
Facility: <u>GREC</u>	Static Press (in H ₂ O): <u>-</u>	Run Number: <u>7</u>
Unit No.: <u>1</u>	Meter Box Number: <u>CEMS7MB</u>	Run Duration (min): <u>30</u>
Sample Location: <u>Stack</u>	Ini. Leak Rate: <u>0.000 @ 7</u>	Load Level: <u>Low</u>
Date: <u>11/18/2013</u>	Fin. Leak Rate: <u>0.000 @ 5</u>	

Point	Clock Time	Sample Time	Volume (ft ³)	Orifice Pressure	Meter Outlet Temperature (°F)	Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	15:12	0	538.901	1.80	83	3.0	56
2	15:22	10	546.500	1.80	83	3.0	56
3	15:32	20	554.100	1.80	83	3.0	57
End	15:42	30	561.625				

Averages:	1.80	83	3.0	56
Volume Collected: 22.724				

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	673.9	765.4	619.2	902.0
Final Weight	785.1	780.3	622.0	908.9
Weight Gain:	111.2	14.9	2.8	6.9

Total Weight Gain: 135.8

Water Vapor V _{wc(std)} :	6.08
Silica Gel Water Vapor V _{wsg(std)} :	0.33
GAS SAMPLED (DSCF) V _{m(std)} :	21.45
MOISTURE(% VOL) B _{ws} :	22.99

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.77 Meter Y_i: 0.976
 Facility: BREC Static Press (in H₂O): -0.53 Run Number: 4
 Unit No.: 1 Meter Box Number: CENS7M17 Run Duration (min): 30
 Sample Location: Stack Ini. Leak Rate: 0.000 @ .5 Load Level: Low
 Date: 11/18/13 Fin. Leak Rate: 0.000 @ .5

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1248	0	470.425	1.8	74	3	59
2	1258	10	478.0	1.8	75	3	51
3	1308	20	485.4	1.8	78	3	56
End	1318	30	492.901				

Averages:

1.8	75.7	3	55.3

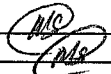
Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	545.4	718.0	614.4	881.5
Final Weight	646.9	734.2	616.5	889.3
Weight Gain:	101.5	16.2	2.1	7.8

Total Weight Gain:

127.6

21.86 % B_{avg}

Train Prepared by: 
 Train Recovered by: 

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.77 Meter Y_i: 0.976
 Facility: GRFL Static Press (in H₂O): -0.53 Run Number: 5
 Unit No.: 1 Meter Box Number: CEMS 7MB Run Duration (min): 30
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 6 Load Level: Low
 Date: 11/18/13 Fin. Leak Rate: 0.000 @ 5

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1331	0	483.091	1.8	78	3	61
2	1341	10	500.4	1.8	80	3	59
3	1351	20	508.2	1.8	82	3	62
End	1401	30	515.814				

Averages:

1.8	80	3	60.7

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	646.9	734.2	616.5	889.3
Final Weight	746.0	748.2	617.3	894.7
Weight Gain:				

Total Weight Gain: _____

Train Prepared by: 
 Train Recovered by: _____

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.77 Meter Y_i: 0.976
 Facility: Gmc Static Press (in H₂O): -0.53 Run Number: 8
 Unit No.: 1 Meter Box Number: CENSTMR Run Duration (min): 30
 Sample Location: Stack Ini. Leak Rate: 0.000@7 Load Level: low
 Date: 11/18/13 Fin. Leak Rate: 0.000@4

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1418	0	516.005	1.8	82	3	61
2	1428	10	523.4	1.8	83	3	63
3	1438	20	531.4	1.8	84	3	65
End	1448	30	538.756				

Averages:

1.8	83	3	63

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	570.0	748.2	617.3	894.7
Final Weight	673.9	765.4	619.2	902.0
Weight Gain:	103.9	17.2	1.9	7.3

Total Weight Gain: 130.3

Train Prepared by: [Signature]
 Train Recovered by: [Signature]

22.24 % 130.3

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): 29.77 Meter Y_i: 0.976
 Facility: Grec Static Press (in H₂O): -0.53 Run Number: 7
 Unit No.: 1 Meter Box Number: CEMS 7 MB Run Duration (min): 30
 Sample Location: Stack Ini. Leak Rate: 0.000 @ 7 Load Level: Low
 Date: 11/18/13 Fin. Leak Rate: 0.000 @ 5

Point	CEM Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1	1512	0	538.901	1.8	83	3	56
2	1522	10	546.5	1.8	83	3	56
3	1532	20	554.1	1.8	83	3	57
End	1542	30	561.625				

Averages:

1.8	83	3	56

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	673.9	765.4	619.2	902.0
Final Weight	785.1	780.3	622.0	908.9
Weight Gain:	111.2	14.9	2.8	6.9

Total Weight Gain: 135.8

Train Prepared by: MC
 Train Recovered by: MC

22.99% 1.5 hrs

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
Low Load Flow RATA
Date:11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 4

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.09 %	-0.01 %	0.04
10.03 percent O ₂	9.98 %	9.85 %	9.92
0.00 percent CO ₂	0.13 %	-0.03 %	0.05
19.07 percent CO ₂	18.79 %	18.67 %	18.73
Mean Reference Values:	Corrected Results:	Basis:	
3.56 percent O ₂	3.60 percent O ₂	DRY	
16.62 percent CO ₂	16.90 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
Low Load Flow RATA
Date:11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 5

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	-0.01 %	0.09 %	0.04
10.03 percent O ₂	9.85 %	10.02 %	9.94
0.00 percent CO ₂	-0.03 %	0.13 %	0.05
19.07 percent CO ₂	18.67 %	18.76 %	18.72
Mean Reference Values:	Corrected Results:	Basis:	
3.64 percent O ₂	3.60 percent O ₂	DRY	
16.56 percent CO ₂	16.90 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
Low Load Flow RATA
Date:11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 6

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.09 %	0.02 %	0.06
10.03 percent O ₂	10.02 %	9.96 %	9.99
0.00 percent CO ₂	0.13 %	-0.02 %	0.06
19.07 percent CO ₂	18.76 %	Not Measured	18.76
Mean Reference Values:	Corrected Results:	Basis:	
3.55 percent O ₂	3.50 percent O ₂	DRY	
16.62 percent CO ₂	16.90 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
Low Load Flow RATA
Date:11/18/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 7

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.02 %	0.08 %	0.05
10.03 percent O ₂	9.96 %	10.02 %	9.99
0.00 percent CO ₂	-0.02 %	0.15 %	0.06
19.07 percent CO ₂	18.77 %	18.83 %	18.80
Mean Reference Values:	Corrected Results:	Basis:	
3.54 percent O ₂	3.50 percent O ₂	DRY	
16.64 percent CO ₂	16.90 percent CO ₂	DRY	

filename 11/18/2013 8:22:40 C:\RMDATA\20131118.CSV
testby1 C.E.M. Solutions, Inc.
testby2 1183 East Overdrive Circle
testby3 Hernando, FL 34442
testby4 (352) 489-4337
testfor1 FAGEN
testfor2 GREC
testfor3 BFB Boiler (002)
testfor4 Low Load Flow RATA

name	O2		CO2											
sn	1009241630		1009241630											
offset	0		0											
fullscale	100		20											
train	1		1											
gastype	o2 3a		co2 3a											
dcp1	11/18/2013	8:23:00	20.80	-0.02	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:23:15	20.78	-0.02	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:23:30	20.82	-0.02	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:23:45	14.97	0.00	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:24:00	0.29	-0.02	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:24:15	0.02	-0.05	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:24:30	0.01	-0.06	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:24:45	0.04	-0.06	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:25:00	0.00	-0.05	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:25:15	-0.02	-0.05	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp1	11/18/2013	8:25:30	0.02	-0.05	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
co2zero1	11/18/2013	8:25:30	0.02	-0.05	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
o2zero1	11/18/2013	8:25:30	0.02	-0.05	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
dcp6	11/18/2013	8:26:30	0.15	-0.05	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:26:45	3.87	0.68	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:27:00	1.51	1.60	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:27:15	2.97	1.35	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:27:30	3.81	2.19	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:27:45	4.07	2.78	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:28:00	4.74	3.07	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:28:15	5.14	3.49	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:28:30	5.47	3.82	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:28:45	11.32	4.15	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:29:00	20.13	11.59	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:29:15	20.34	17.41	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:29:30	20.35	18.62	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:29:45	20.36	18.89	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:30:00	20.36	18.93	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:30:15	20.35	18.94	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:30:30	20.38	18.90	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:30:45	20.38	18.89	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp6	11/18/2013	8:31:00	20.37	18.93	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
co2high1	11/18/2013	8:31:00	20.37	18.93	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
o2high1	11/18/2013	8:31:00	20.37	18.93	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
dcp5	11/18/2013	8:31:15	20.37	18.98	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:31:30	15.26	18.24	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:31:45	9.98	13.34	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:32:00	9.99	10.13	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:32:15	10.02	9.69	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:32:30	9.98	9.67	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:32:45	10.00	9.67	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:33:00	10.00	9.65	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:33:15	10.01	9.64	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
dcp5	11/18/2013	8:33:30	9.99	9.66	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
co2mid1	11/18/2013	8:33:15	10.01	9.64	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
o2mid1	11/18/2013	8:33:00	10.00	9.65	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg1	11/18/2013	8:33:45	10.05	9.79	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:34:00	10.38	9.54	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:34:15	16.08	6.87	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:34:30	10.16	6.62	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:34:45	6.44	8.99	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:35:00	0.32	5.04	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:35:15	0.15	1.03	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:35:30	0.10	0.29	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:35:45	0.12	0.17	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:36:00	0.10	0.14	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:36:15	0.09	0.13	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg1	11/18/2013	8:36:30	0.10	0.12	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
co2zero1	11/18/2013	8:36:30	0.10	0.12	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
o2zero1	11/18/2013	8:36:15	0.09	0.13	CC281765/cg1	CO	0	0	CO2	0	O2	0	0	0
scg5	11/18/2013	8:36:45	0.10	0.11	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg5	11/18/2013	8:37:00	0.08	0.10	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg5	11/18/2013	8:37:15	0.09	0.10	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg5	11/18/2013	8:37:30	1.11	0.14	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg5	11/18/2013	8:37:45	8.93	2.23	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg5	11/18/2013	8:38:00	9.91	7.46	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg5	11/18/2013	8:38:15	9.95	9.15	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg5	11/18/2013	8:38:30	9.96	9.45	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
o2span1	11/18/2013	8:38:30	9.96	9.45	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0	0	0
scg6	11/18/2013	8:38:45	9.96	9.53	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:39:00	9.97	9.56	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:39:15	10.00	9.58	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:39:30	9.98	9.56	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:39:45	15.04	9.93	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:40:00	20.06	14.23	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:40:15	20.24	17.57	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:40:30	20.24	18.41	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:40:45	20.24	18.62	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:41:00	20.24	18.69	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	8:41:15	20.24	18.74	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
co2span1	11/18/2013	8:41:15	20.24	18.74	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	11:03:15	3.07	16.98	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	11:03:30	2.82	17.13	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0	0	0
scg6	11/18/2013	11:03:45	3.26	17.35	CC365323/cg6	O2	20.37	CO2	19.07					

name	O2		CO2									
sn	1009241630		1009241630									
offset	0		0									
fullscale	100		20									
train	1		1									
gastype	o2 3a		co2 3a									
scg6	11/18/2013	11:05:15	20.20	18.79	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:05:30	20.22	18.81	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:05:45	20.21	18.78	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:06:00	20.20	18.75	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:06:15	20.23	18.78	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:06:30	20.20	18.82	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:06:45	20.22	18.82	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:07:00	20.24	18.78	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:07:15	20.23	18.75	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:07:30	20.23	18.79	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:07:45	20.24	18.83	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:08:00	20.23	18.81	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:08:15	20.24	18.76	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:08:30	20.23	18.75	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/18/2013	11:08:45	20.21	18.79	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
co2span1	11/18/2013	11:08:45	20.21	18.79	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg5	11/18/2013	11:09:00	20.24	18.81	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:09:15	20.22	18.79	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:09:30	20.25	18.75	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:09:45	20.24	18.78	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:10:00	14.56	18.37	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:10:15	10.07	13.41	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:10:30	10.04	10.22	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:10:45	10.01	9.70	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:11:00	10.00	9.65	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:11:15	9.99	9.64	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:11:30	10.03	9.61	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/18/2013	11:11:45	9.98	9.58	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
o2span1	11/18/2013	11:11:45	9.98	9.58	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg1	11/18/2013	11:12:15	10.01	9.59	CC281765/cg1	CO	0	0	CO2	0	02	0
scg1	11/18/2013	11:12:30	9.96	9.60	CC281765/cg1	CO	0	0	CO2	0	02	0
scg1	11/18/2013	11:12:45	9.96	9.57	CC281765/cg1	CO	0	0	CO2	0	02	0
scg1	11/18/2013	11:13:00	7.77	9.42	CC281765/cg1	CO	0	0	CO2	0	02	0
scg1	11/18/2013	11:13:15	0.47	6.24	CC281765/cg1	CO	0	0	CO2	0	02	0
scg1	11/18/2013	11:13:30	0.13	1.42	CC281765/cg1	CO	0	0	CO2	0	02	0
scg1	11/18/2013	11:13:45	0.10	0.27	CC281765/cg1	CO	0	0	CO2	0	02	0
scg1	11/18/2013	11:14:00	0.09	0.13	CC281765/cg1	CO	0	0	CO2	0	02	0
co2zero1	11/18/2013	11:14:00	0.09	0.13	CC281765/cg1	CO	0	0	CO2	0	02	0
o2zero1	11/18/2013	11:14:00	0.09	0.13	CC281765/cg1	CO	0	0	CO2	0	02	0
run4	11/18/2013	12:32:30	3.42	16.65								
run4	11/18/2013	12:32:45	3.54	16.71								
run4	11/18/2013	12:33:00	3.65	16.66								
run4	11/18/2013	12:33:15	3.47	16.65								
run4	11/18/2013	12:33:30	3.38	16.74								
run4	11/18/2013	12:33:45	3.40	16.77								
run4	11/18/2013	12:34:00	3.43	16.78								
run4	11/18/2013	12:34:15	3.40	16.78								
run4	11/18/2013	12:34:30	3.41	16.79								
run4	11/18/2013	12:34:45	3.48	16.73								
run4	11/18/2013	12:35:00	3.37	16.70								
run4	11/18/2013	12:35:15	3.36	16.84								
run4	11/18/2013	12:35:30	3.37	16.86								
run4	11/18/2013	12:35:45	3.51	16.81								
run4	11/18/2013	12:36:00	3.43	16.71								
run4	11/18/2013	12:36:15	3.34	16.79								
run4	11/18/2013	12:36:30	3.46	16.87								
run4	11/18/2013	12:36:45	3.63	16.77								
run4	11/18/2013	12:37:00	3.54	16.59								
run4	11/18/2013	12:37:15	3.40	16.64								
run4	11/18/2013	12:37:30	3.44	16.78								
run4	11/18/2013	12:37:45	3.49	16.79								
run4	11/18/2013	12:38:00	3.45	16.74								
run4	11/18/2013	12:38:15	3.42	16.74								
run4	11/18/2013	12:38:30	3.44	16.76								
run4	11/18/2013	12:38:45	3.44	16.80								
run4	11/18/2013	12:39:00	3.46	16.81								
run4	11/18/2013	12:39:15	3.58	16.77								
run4	11/18/2013	12:39:30	3.67	16.60								
run4	11/18/2013	12:39:45	3.68	16.53								
run4	11/18/2013	12:40:00	3.66	16.55								
run4	11/18/2013	12:40:15	3.62	16.57								
run4	11/18/2013	12:40:30	3.65	16.59								
run4	11/18/2013	12:40:45	3.86	16.47								
run4	11/18/2013	12:41:00	3.98	16.35								
run4	11/18/2013	12:41:15	3.94	16.26								
run4	11/18/2013	12:41:30	3.80	16.27								
run4	11/18/2013	12:41:45	3.64	16.39								
run4	11/18/2013	12:42:00	3.44	16.52								
run4	11/18/2013	12:42:15	3.32	16.74								
run4	11/18/2013	12:42:30	3.24	16.89								
run4	11/18/2013	12:42:45	3.36	16.94								
run4	11/18/2013	12:43:00	3.49	16.83								
run4	11/18/2013	12:43:15	3.50	16.69								
run4	11/18/2013	12:43:30	3.46	16.71								
run4	11/18/2013	12:43:45	3.34	16.80								
run4	11/18/2013	12:44:00	3.37	16.86								
run4	11/18/2013	12:44:15	3.48	16.78								
run4	11/18/2013	12:44:30	3.48	16.73								
run4	11/18/2013	12:44:45	3.50	16.73								
run4	11/18/2013	12:45:00	3.50	16.71								
run4	11/18/2013	12:45:15	3.52	16.69								
run4	11/18/2013	12:45:30	3.56	16.63								
run4	11/18/2013	12:45:45	3.36	16.66								
run4	11/18/2013	12:46:00	3.38	16.82								
run4	11/18/2013	12:46:15	3.44	16.83								
run4	11/18/2013	12:46:30	3.46	16.74								
run4	11/18/2013	12:46:45	3.43	16.72								
run4	11/18/2013	12:47:00	3.47	16.77								

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run4	11/18/2013	12:47:15	3.49	16.74
run4	11/18/2013	12:47:30	3.56	16.72
run4	11/18/2013	12:47:45	3.67	16.58
run4	11/18/2013	12:48:00	3.57	16.52
run4	11/18/2013	12:48:15	3.45	16.61
run4	11/18/2013	12:48:30	3.49	16.72
run4	11/18/2013	12:48:45	3.50	16.70
run4	11/18/2013	12:49:00	3.44	16.65
run4	11/18/2013	12:49:15	3.46	16.73
run4	11/18/2013	12:49:30	3.45	16.78
run4	11/18/2013	12:49:45	3.45	16.76
run4	11/18/2013	12:50:00	3.56	16.70
run4	11/18/2013	12:50:15	3.69	16.57
run4	11/18/2013	12:50:30	3.52	16.55
run4	11/18/2013	12:50:45	3.29	16.70
run4	11/18/2013	12:51:00	3.21	16.88
run4	11/18/2013	12:51:15	3.10	16.94
run4	11/18/2013	12:51:30	3.20	17.00
run4	11/18/2013	12:51:45	3.30	17.01
run4	11/18/2013	12:52:00	3.49	16.87
run4	11/18/2013	12:52:15	3.74	16.65
run4	11/18/2013	12:52:30	3.89	16.41
run4	11/18/2013	12:52:45	3.83	16.24
run4	11/18/2013	12:53:00	3.65	16.34
run4	11/18/2013	12:53:15	3.41	16.56
run4	11/18/2013	12:53:30	3.47	16.73
run4	11/18/2013	12:53:45	3.49	16.69
run4	11/18/2013	12:54:00	3.44	16.65
run4	11/18/2013	12:54:15	3.46	16.73
run4	11/18/2013	12:54:30	3.46	16.74
run4	11/18/2013	12:54:45	3.53	16.70
run4	11/18/2013	12:55:00	3.56	16.60
run4	11/18/2013	12:55:15	3.43	16.58
run4	11/18/2013	12:55:30	3.25	16.72
run4	11/18/2013	12:55:45	3.25	16.91
run4	11/18/2013	12:56:00	3.33	16.90
run4	11/18/2013	12:56:15	3.38	16.80
run4	11/18/2013	12:56:30	3.42	16.75
run4	11/18/2013	12:56:45	3.35	16.78
run4	11/18/2013	12:57:00	3.40	16.80
run4	11/18/2013	12:57:15	3.46	16.77
run4	11/18/2013	12:57:30	3.50	16.65
run4	11/18/2013	12:57:45	3.45	16.66
run4	11/18/2013	12:58:00	3.45	16.72
run4	11/18/2013	12:58:15	3.48	16.72
run4	11/18/2013	12:58:30	3.42	16.69
run4	11/18/2013	12:58:45	3.41	16.70
run4	11/18/2013	12:59:00	3.45	16.73
run4	11/18/2013	12:59:15	3.42	16.71
run4	11/18/2013	12:59:30	3.29	16.77
run4	11/18/2013	12:59:45	3.39	16.82
run4	11/18/2013	13:00:00	3.45	16.73
run4	11/18/2013	13:00:15	3.52	16.69
run4	11/18/2013	13:00:30	3.68	16.61
run4	11/18/2013	13:00:45	3.62	16.56
run4	11/18/2013	13:01:00	3.65	16.52
run4	11/18/2013	13:01:15	3.67	16.46
run4	11/18/2013	13:01:30	3.76	16.46
run4	11/18/2013	13:01:45	3.87	16.43
run4	11/18/2013	13:02:00	3.82	16.35
run4	11/18/2013	13:02:15	3.77	16.34
run4	11/18/2013	13:02:30	3.67	16.37
run4	11/18/2013	13:02:45	3.63	16.47
run4	11/18/2013	13:03:00	3.75	16.52
run4	11/18/2013	13:03:15	3.85	16.44
run4	11/18/2013	13:03:30	3.79	16.36
run4	11/18/2013	13:03:45	3.79	16.32
run4	11/18/2013	13:04:00	3.67	16.39
run4	11/18/2013	13:04:15	3.69	16.50
run4	11/18/2013	13:04:30	3.65	16.51
run4	11/18/2013	13:04:45	3.49	16.53
run4	11/18/2013	13:05:00	3.51	16.60
run4	11/18/2013	13:05:15	3.56	16.66
run4	11/18/2013	13:05:30	3.57	16.62
run4	11/18/2013	13:05:45	3.50	16.63
run4	11/18/2013	13:06:00	3.38	16.64
run4	11/18/2013	13:06:15	3.42	16.76
run4	11/18/2013	13:06:30	3.43	16.80
run4	11/18/2013	13:06:45	3.26	16.86
run4	11/18/2013	13:07:00	3.23	16.90
run4	11/18/2013	13:07:15	3.19	16.93
run4	11/18/2013	13:07:30	3.24	16.98
run4	11/18/2013	13:07:45	3.33	16.95
run4	11/18/2013	13:08:00	3.24	16.93
run4	11/18/2013	13:08:15	3.23	16.91
run4	11/18/2013	13:08:30	3.35	16.91
run4	11/18/2013	13:08:45	3.47	16.83
run4	11/18/2013	13:09:00	3.64	16.73
run4	11/18/2013	13:09:15	3.76	16.57
run4	11/18/2013	13:09:30	3.75	16.46
run4	11/18/2013	13:09:45	3.70	16.42
run4	11/18/2013	13:10:00	4.00	16.39
run4	11/18/2013	13:10:15	4.12	16.19
run4	11/18/2013	13:10:30	3.86	16.16
run4	11/18/2013	13:10:45	3.74	16.32
run4	11/18/2013	13:11:00	3.75	16.39
run4	11/18/2013	13:11:15	3.75	16.42
run4	11/18/2013	13:11:30	3.78	16.45

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run4	11/18/2013	13:11:45	3.90	16.42
run4	11/18/2013	13:12:00	3.95	16.30
run4	11/18/2013	13:12:15	3.91	16.22
run4	11/18/2013	13:12:30	3.83	16.28
run4	11/18/2013	13:12:45	3.81	16.38
run4	11/18/2013	13:13:00	3.83	16.40
run4	11/18/2013	13:13:15	3.80	16.35
run4	11/18/2013	13:13:30	3.81	16.36
run4	11/18/2013	13:13:45	3.81	16.38
run4	11/18/2013	13:14:00	3.59	16.45
run4	11/18/2013	13:14:15	3.37	16.63
run4	11/18/2013	13:14:30	3.26	16.79
run4	11/18/2013	13:14:45	3.40	16.89
run4	11/18/2013	13:15:00	3.49	16.81
run4	11/18/2013	13:15:15	3.51	16.76
run4	11/18/2013	13:15:30	3.65	16.70
run4	11/18/2013	13:15:45	3.71	16.53
run4	11/18/2013	13:16:00	3.68	16.47
run4	11/18/2013	13:16:15	3.46	16.57
run4	11/18/2013	13:16:30	3.37	16.75
run4	11/18/2013	13:16:45	3.45	16.82
run4	11/18/2013	13:17:00	3.60	16.70
run4	11/18/2013	13:17:15	3.87	16.58
run4	11/18/2013	13:17:30	4.03	16.35
run4	11/18/2013	13:17:45	3.77	16.24
run4	11/18/2013	13:18:00	3.60	16.40
run4	11/18/2013	13:18:15	3.69	16.50
run4	11/18/2013	13:18:30	3.65	16.52
run4	11/18/2013	13:18:45	3.61	16.58
run4	11/18/2013	13:19:00	3.52	16.64
averun4	11/18/2013	12:48:00	3.56	16.62
scg1	11/18/2013	13:19:15	3.50	16.64 CC281765/cg1 CO
scg1	11/18/2013	13:19:30	3.46	16.67 CC281765/cg1 CO
scg1	11/18/2013	13:19:45	3.42	16.75 CC281765/cg1 CO
scg1	11/18/2013	13:20:00	3.36	14.93 CC281765/cg1 CO
scg1	11/18/2013	13:20:15	0.14	5.25 CC281765/cg1 CO
scg1	11/18/2013	13:20:30	0.02	0.87 CC281765/cg1 CO
scg1	11/18/2013	13:20:45	0.02	0.16 CC281765/cg1 CO
scg1	11/18/2013	13:21:00	0.04	0.07 CC281765/cg1 CO
scg1	11/18/2013	13:21:15	0.03	0.04 CC281765/cg1 CO
scg1	11/18/2013	13:21:30	0.02	0.02 CC281765/cg1 CO
scg1	11/18/2013	13:21:45	0.03	0.01 CC281765/cg1 CO
scg1	11/18/2013	13:22:00	0.01	0.00 CC281765/cg1 CO
scg1	11/18/2013	13:22:15	0.01	0.00 CC281765/cg1 CO
scg1	11/18/2013	13:22:30	0.03	-0.01 CC281765/cg1 CO
scg1	11/18/2013	13:22:45	0.01	-0.01 CC281765/cg1 CO
scg1	11/18/2013	13:23:00	0.00	-0.02 CC281765/cg1 CO
scg1	11/18/2013	13:23:15	0.00	-0.02 CC281765/cg1 CO
scg1	11/18/2013	13:23:30	0.00	-0.02 CC281765/cg1 CO
scg1	11/18/2013	13:23:45	0.01	-0.03 CC281765/cg1 CO
scg1	11/18/2013	13:24:00	0.00	-0.03 CC281765/cg1 CO
scg1	11/18/2013	13:24:15	-0.01	-0.03 CC281765/cg1 CO
co2zero1	11/18/2013	13:24:15	-0.01	-0.03 CC281765/cg1 CO
o2zero1	11/18/2013	13:24:15	-0.01	-0.03 CC281765/cg1 CO
scg5	11/18/2013	13:24:30	0.00	-0.03 CC427756/cg5 O2
scg5	11/18/2013	13:24:45	-0.02	-0.04 CC427756/cg5 O2
scg5	11/18/2013	13:25:00	0.00	-0.04 CC427756/cg5 O2
scg5	11/18/2013	13:25:15	2.36	-0.01 CC427756/cg5 O2
scg5	11/18/2013	13:25:30	9.33	2.84 CC427756/cg5 O2
scg5	11/18/2013	13:25:45	9.83	7.67 CC427756/cg5 O2
scg5	11/18/2013	13:26:00	9.85	9.07 CC427756/cg5 O2
o2span1	11/18/2013	13:26:00	9.85	9.07 CC427756/cg5 O2
scg6	11/18/2013	13:26:15	9.88	9.37 CC365323/cg6 O2
scg6	11/18/2013	13:26:30	9.90	9.42 CC365323/cg6 O2
scg6	11/18/2013	13:26:45	9.88	9.46 CC365323/cg6 O2
scg6	11/18/2013	13:27:00	9.92	9.49 CC365323/cg6 O2
scg6	11/18/2013	13:27:15	16.46	10.15 CC365323/cg6 O2
scg6	11/18/2013	13:27:30	19.99	14.33 CC365323/cg6 O2
scg6	11/18/2013	13:27:45	20.14	17.47 CC365323/cg6 O2
scg6	11/18/2013	13:28:00	20.13	18.41 CC365323/cg6 O2
scg6	11/18/2013	13:28:15	20.17	18.67 CC365323/cg6 O2
scg6	11/18/2013	13:28:30	20.15	18.67 CC365323/cg6 O2
scg6	11/18/2013	13:28:45	20.17	18.67 CC365323/cg6 O2
co2span1	11/18/2013	13:28:45	20.17	18.67 CC365323/cg6 O2
run5	11/18/2013	13:31:00	3.77	16.41
run5	11/18/2013	13:31:15	3.46	16.50
run5	11/18/2013	13:31:30	3.46	16.74
run5	11/18/2013	13:31:45	3.48	16.82
run5	11/18/2013	13:32:00	3.55	16.74
run5	11/18/2013	13:32:15	3.52	16.68
run5	11/18/2013	13:32:30	3.55	16.70
run5	11/18/2013	13:32:45	3.53	16.72
run5	11/18/2013	13:33:00	3.56	16.71
run5	11/18/2013	13:33:15	3.65	16.61
run5	11/18/2013	13:33:30	3.74	16.55
run5	11/18/2013	13:33:45	3.64	16.53
run5	11/18/2013	13:34:00	3.47	16.66
run5	11/18/2013	13:34:15	3.30	16.77
run5	11/18/2013	13:34:30	3.39	16.83
run5	11/18/2013	13:34:45	3.44	16.85
run5	11/18/2013	13:35:00	3.48	16.84
run5	11/18/2013	13:35:15	3.57	16.77
run5	11/18/2013	13:35:30	3.57	16.64
run5	11/18/2013	13:35:45	3.57	16.63
run5	11/18/2013	13:36:00	3.52	16.68
run5	11/18/2013	13:36:15	3.49	16.74
run5	11/18/2013	13:36:30	3.53	16.73
run5	11/18/2013	13:36:45	3.48	16.67

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run5	11/18/2013	13:37:00	3.41	16.74
run5	11/18/2013	13:37:15	3.42	16.85
run5	11/18/2013	13:37:30	3.58	16.82
run5	11/18/2013	13:37:45	3.68	16.61
run5	11/18/2013	13:38:00	3.62	16.53
run5	11/18/2013	13:38:15	3.71	16.57
run5	11/18/2013	13:38:30	3.63	16.57
run5	11/18/2013	13:38:45	3.59	16.60
run5	11/18/2013	13:39:00	3.48	16.60
run5	11/18/2013	13:39:15	3.36	16.73
run5	11/18/2013	13:39:30	3.50	16.84
run5	11/18/2013	13:39:45	3.54	16.78
run5	11/18/2013	13:40:00	3.53	16.70
run5	11/18/2013	13:40:15	3.52	16.65
run5	11/18/2013	13:40:30	3.53	16.70
run5	11/18/2013	13:40:45	3.53	16.72
run5	11/18/2013	13:41:00	3.48	16.71
run5	11/18/2013	13:41:15	3.51	16.68
run5	11/18/2013	13:41:30	3.51	16.68
run5	11/18/2013	13:41:45	3.49	16.72
run5	11/18/2013	13:42:00	3.39	16.75
run5	11/18/2013	13:42:15	3.42	16.80
run5	11/18/2013	13:42:30	3.57	16.75
run5	11/18/2013	13:42:45	3.62	16.67
run5	11/18/2013	13:43:00	3.56	16.61
run5	11/18/2013	13:43:15	3.47	16.65
run5	11/18/2013	13:43:30	3.39	16.74
run5	11/18/2013	13:43:45	3.52	16.76
run5	11/18/2013	13:44:00	3.57	16.72
run5	11/18/2013	13:44:15	3.67	16.66
run5	11/18/2013	13:44:30	3.55	16.55
run5	11/18/2013	13:44:45	3.33	16.66
run5	11/18/2013	13:45:00	3.29	16.85
run5	11/18/2013	13:45:15	3.50	16.89
run5	11/18/2013	13:45:30	3.50	16.76
run5	11/18/2013	13:45:45	3.46	16.70
run5	11/18/2013	13:46:00	3.54	16.71
run5	11/18/2013	13:46:15	3.55	16.67
run5	11/18/2013	13:46:30	3.54	16.66
run5	11/18/2013	13:46:45	3.36	16.70
run5	11/18/2013	13:47:00	3.27	16.78
run5	11/18/2013	13:47:15	3.17	16.93
run5	11/18/2013	13:47:30	3.31	17.02
run5	11/18/2013	13:47:45	3.49	16.89
run5	11/18/2013	13:48:00	3.52	16.72
run5	11/18/2013	13:48:15	3.59	16.66
run5	11/18/2013	13:48:30	3.57	16.63
run5	11/18/2013	13:48:45	3.61	16.63
run5	11/18/2013	13:49:00	3.59	16.57
run5	11/18/2013	13:49:15	3.55	16.56
run5	11/18/2013	13:49:30	3.51	16.64
run5	11/18/2013	13:49:45	3.56	16.67
run5	11/18/2013	13:50:00	3.67	16.62
run5	11/18/2013	13:50:15	3.65	16.50
run5	11/18/2013	13:50:30	3.61	16.50
run5	11/18/2013	13:50:45	3.69	16.50
run5	11/18/2013	13:51:00	3.74	16.47
run5	11/18/2013	13:51:15	3.74	16.46
run5	11/18/2013	13:51:30	3.82	16.40
run5	11/18/2013	13:51:45	3.86	16.29
run5	11/18/2013	13:52:00	3.82	16.30
run5	11/18/2013	13:52:15	3.83	16.35
run5	11/18/2013	13:52:30	4.02	16.32
run5	11/18/2013	13:52:45	3.99	16.17
run5	11/18/2013	13:53:00	3.82	16.18
run5	11/18/2013	13:53:15	3.77	16.32
run5	11/18/2013	13:53:30	3.86	16.37
run5	11/18/2013	13:53:45	3.85	16.34
run5	11/18/2013	13:54:00	3.79	16.31
run5	11/18/2013	13:54:15	3.81	16.33
run5	11/18/2013	13:54:30	3.78	16.34
run5	11/18/2013	13:54:45	3.81	16.39
run5	11/18/2013	13:55:00	3.79	16.37
run5	11/18/2013	13:55:15	3.70	16.36
run5	11/18/2013	13:55:30	3.73	16.39
run5	11/18/2013	13:55:45	3.85	16.41
run5	11/18/2013	13:56:00	3.88	16.34
run5	11/18/2013	13:56:15	3.70	16.31
run5	11/18/2013	13:56:30	3.73	16.38
run5	11/18/2013	13:56:45	3.82	16.36
run5	11/18/2013	13:57:00	3.94	16.30
run5	11/18/2013	13:57:15	3.88	16.23
run5	11/18/2013	13:57:30	3.82	16.28
run5	11/18/2013	13:57:45	3.84	16.30
run5	11/18/2013	13:58:00	3.99	16.25
run5	11/18/2013	13:58:15	4.07	16.13
run5	11/18/2013	13:58:30	4.09	16.10
run5	11/18/2013	13:58:45	3.93	16.10
run5	11/18/2013	13:59:00	3.87	16.17
run5	11/18/2013	13:59:15	3.79	16.25
run5	11/18/2013	13:59:30	3.78	16.36
run5	11/18/2013	13:59:45	3.92	16.36
run5	11/18/2013	14:00:00	4.06	16.24
run5	11/18/2013	14:00:15	4.14	16.06
run5	11/18/2013	14:00:30	4.14	16.01
run5	11/18/2013	14:00:45	4.01	16.04
run5	11/18/2013	14:01:00	3.86	16.16
run5	11/18/2013	14:01:15	3.84	16.27

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run5	11/18/2013	14:01:30	3.67	16.31
run5	11/18/2013	14:01:45	3.74	16.44
run5	11/18/2013	14:02:00	3.73	16.45
run5	11/18/2013	14:02:15	3.68	16.45
averun5	11/18/2013	13:31:00	3.64	16.56
scg6	11/18/2013	14:02:45	3.73	16.40 CC365323/cg6
scg6	11/18/2013	14:03:00	3.66	16.46 CC365323/cg6
scg6	11/18/2013	14:03:15	4.45	16.53 CC365323/cg6
scg6	11/18/2013	14:03:30	17.85	16.40 CC365323/cg6
scg6	11/18/2013	14:03:45	20.09	16.95 CC365323/cg6
scg6	11/18/2013	14:04:00	20.15	18.08 CC365323/cg6
scg6	11/18/2013	14:04:15	20.20	18.58 CC365323/cg6
scg6	11/18/2013	14:04:30	20.20	18.72 CC365323/cg6
scg6	11/18/2013	14:04:45	20.20	18.71 CC365323/cg6
scg6	11/18/2013	14:05:00	20.22	18.70 CC365323/cg6
scg6	11/18/2013	14:05:15	20.19	18.74 CC365323/cg6
scg6	11/18/2013	14:05:30	20.26	18.76 CC365323/cg6
co2span1	11/18/2013	14:05:30	20.26	18.76 CC365323/cg6
scg5	11/18/2013	14:05:45	20.21	18.78 CC427756/cg5
scg5	11/18/2013	14:06:00	20.21	18.75 CC427756/cg5
scg5	11/18/2013	14:06:15	20.24	18.72 CC427756/cg5
scg5	11/18/2013	14:06:30	20.22	18.75 CC427756/cg5
scg5	11/18/2013	14:06:45	17.00	18.70 CC427756/cg5
scg5	11/18/2013	14:07:00	10.20	15.00 CC427756/cg5
scg5	11/18/2013	14:07:15	10.01	10.51 CC427756/cg5
scg5	11/18/2013	14:07:30	10.02	9.74 CC427756/cg5
o2span1	11/18/2013	14:07:30	10.02	9.74 CC427756/cg5
scg1	11/18/2013	14:07:45	9.97	9.63 CC281765/cg1
scg1	11/18/2013	14:08:00	9.96	9.63 CC281765/cg1
scg1	11/18/2013	14:08:15	9.96	9.62 CC281765/cg1
scg1	11/18/2013	14:08:30	8.83	9.52 CC281765/cg1
scg1	11/18/2013	14:08:45	0.80	6.95 CC281765/cg1
scg1	11/18/2013	14:09:00	-0.14	1.76 CC281765/cg1
scg1	11/18/2013	14:09:15	0.12	0.32 CC281765/cg1
scg1	11/18/2013	14:09:30	0.09	0.13 CC281765/cg1
co2zero1	11/18/2013	14:09:30	0.09	0.13 CC281765/cg1
o2zero1	11/18/2013	14:09:30	0.09	0.13 CC281765/cg1
run6i	11/18/2013	14:10:15	0.09	0.05
run6i	11/18/2013	14:10:30	0.31	0.09
run6i	11/18/2013	14:10:45	3.17	3.71
run6	11/18/2013	14:11:00	3.75	12.32
run6	11/18/2013	14:11:15	3.61	15.67
run6	11/18/2013	14:11:30	3.55	16.34
run6	11/18/2013	14:11:45	3.54	16.56
run6	11/18/2013	14:12:00	3.55	16.53
run6	11/18/2013	14:12:15	3.59	16.53
run6	11/18/2013	14:12:30	3.70	16.53
run6	11/18/2013	14:12:45	3.63	16.48
run6	11/18/2013	14:13:00	3.70	16.51
run6	11/18/2013	14:13:15	3.81	16.42
run6	11/18/2013	14:13:30	3.70	16.36
run6	11/18/2013	14:13:45	3.54	16.48
run6	11/18/2013	14:14:00	3.38	16.66
run6	11/18/2013	14:14:15	3.34	16.81
run6	11/18/2013	14:14:30	3.30	16.82
run6	11/18/2013	14:14:45	3.35	16.84
run6	11/18/2013	14:15:00	3.43	16.83
run6	11/18/2013	14:15:15	3.44	16.78
run6	11/18/2013	14:15:30	3.40	16.74
run6	11/18/2013	14:15:45	3.54	16.72
run6	11/18/2013	14:16:00	3.56	16.65
run6	11/18/2013	14:16:15	3.45	16.67
run6	11/18/2013	14:16:30	3.63	16.70
run6	11/18/2013	14:16:45	3.60	16.56
run6	11/18/2013	14:17:00	3.59	16.53
run6	11/18/2013	14:17:15	3.59	16.60
run6	11/18/2013	14:17:30	3.73	16.58
run6	11/18/2013	14:17:45	3.68	16.50
run6	11/18/2013	14:18:00	3.73	16.48
run6	11/18/2013	14:18:15	3.83	16.42
run6	11/18/2013	14:18:30	3.68	16.41
run6	11/18/2013	14:18:45	3.54	16.53
run6	11/18/2013	14:19:00	3.54	16.64
run6	11/18/2013	14:19:15	3.60	16.59
run6	11/18/2013	14:19:30	3.62	16.55
run6	11/18/2013	14:19:45	3.53	16.59
run6	11/18/2013	14:20:00	3.43	16.69
run6	11/18/2013	14:20:15	3.45	16.79
run6	11/18/2013	14:20:30	3.58	16.69
run6	11/18/2013	14:20:45	3.64	16.57
run6	11/18/2013	14:21:00	3.68	16.57
run6	11/18/2013	14:21:15	3.58	16.57
run6	11/18/2013	14:21:30	3.55	16.61
run6	11/18/2013	14:21:45	3.60	16.56
run6	11/18/2013	14:22:00	3.60	16.55
run6	11/18/2013	14:22:15	3.49	16.63
run6	11/18/2013	14:22:30	3.37	16.72
run6	11/18/2013	14:22:45	3.26	16.82
run6	11/18/2013	14:23:00	3.28	16.87
run6	11/18/2013	14:23:15	3.33	16.87
run6	11/18/2013	14:23:30	3.45	16.86
run6	11/18/2013	14:23:45	3.52	16.77
run6	11/18/2013	14:24:00	3.40	16.71
run6	11/18/2013	14:24:15	3.30	16.79
run6	11/18/2013	14:24:30	3.32	16.88
run6	11/18/2013	14:24:45	3.37	16.88
run6	11/18/2013	14:25:00	3.39	16.85
run6	11/18/2013	14:25:15	3.38	16.79

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run6	11/18/2013	14:25:30	3.36	16.79
run6	11/18/2013	14:25:45	3.37	16.84
run6	11/18/2013	14:26:00	3.32	16.86
run6	11/18/2013	14:26:15	3.43	16.89
run6	11/18/2013	14:26:30	3.56	16.74
run6	11/18/2013	14:26:45	3.63	16.62
run6	11/18/2013	14:27:00	3.71	16.58
run6	11/18/2013	14:27:15	3.79	16.50
run6	11/18/2013	14:27:30	3.80	16.41
run6	11/18/2013	14:27:45	3.71	16.39
run6	11/18/2013	14:28:00	3.75	16.44
run6	11/18/2013	14:28:15	3.86	16.43
run6	11/18/2013	14:28:30	3.88	16.37
run6	11/18/2013	14:28:45	3.86	16.31
run6	11/18/2013	14:29:00	3.81	16.34
run6	11/18/2013	14:29:15	4.00	16.32
run6	11/18/2013	14:29:30	4.06	16.21
run6	11/18/2013	14:29:45	3.80	16.20
run6	11/18/2013	14:30:00	3.59	16.35
run6	11/18/2013	14:30:15	3.55	16.57
run6	11/18/2013	14:30:30	3.61	16.64
run6	11/18/2013	14:30:45	3.87	16.54
run6	11/18/2013	14:31:00	3.92	16.35
run6	11/18/2013	14:31:15	3.71	16.28
run6	11/18/2013	14:31:30	3.62	16.43
run6	11/18/2013	14:31:45	3.47	16.60
run6	11/18/2013	14:32:00	3.36	16.74
run6	11/18/2013	14:32:15	3.46	16.79
run6	11/18/2013	14:32:30	3.54	16.69
run6	11/18/2013	14:32:45	3.64	16.64
run6	11/18/2013	14:33:00	3.62	16.59
run6	11/18/2013	14:33:15	3.57	16.60
run6	11/18/2013	14:33:30	3.46	16.61
run6	11/18/2013	14:33:45	3.53	16.69
run6	11/18/2013	14:34:00	3.66	16.65
run6	11/18/2013	14:34:15	3.62	16.57
run6	11/18/2013	14:34:30	3.49	16.59
run6	11/18/2013	14:34:45	3.57	16.61
run6	11/18/2013	14:35:00	3.67	16.61
run6	11/18/2013	14:35:15	3.71	16.53
run6	11/18/2013	14:35:30	3.65	16.51
run6	11/18/2013	14:35:45	3.63	16.51
run6	11/18/2013	14:36:00	3.53	16.52
run6	11/18/2013	14:36:15	3.36	16.66
run6	11/18/2013	14:36:30	3.22	16.85
run6	11/18/2013	14:36:45	3.32	16.97
run6	11/18/2013	14:37:00	3.25	16.89
run6	11/18/2013	14:37:15	3.22	16.87
run6	11/18/2013	14:37:30	3.20	16.95
run6	11/18/2013	14:37:45	3.18	17.00
run6	11/18/2013	14:38:00	3.20	17.00
run6	11/18/2013	14:38:15	3.17	16.99
run6	11/18/2013	14:38:30	3.17	16.97
run6	11/18/2013	14:38:45	3.29	16.97
run6	11/18/2013	14:39:00	3.54	16.87
run6	11/18/2013	14:39:15	3.48	16.71
run6	11/18/2013	14:39:30	3.49	16.67
run6	11/18/2013	14:39:45	3.54	16.67
run6	11/18/2013	14:40:00	3.48	16.66
run6	11/18/2013	14:40:15	3.72	16.66
run6	11/18/2013	14:40:30	3.93	16.43
run6	11/18/2013	14:40:45	3.91	16.21
run6	11/18/2013	14:41:00	3.88	16.22
run6	11/18/2013	14:41:15	3.75	16.29
run6	11/18/2013	14:41:30	3.65	16.39
run6	11/18/2013	14:41:45	3.76	16.45
run6	11/18/2013	14:42:00	3.85	16.38
run6	11/18/2013	14:42:15	3.78	16.34
run6	11/18/2013	14:42:30	3.67	16.40
run6	11/18/2013	14:42:45	3.51	16.49
run6	11/18/2013	14:43:00	3.47	16.59
run6	11/18/2013	14:43:15	3.40	16.70
run6	11/18/2013	14:43:30	3.44	16.77
run6	11/18/2013	14:43:45	3.65	16.70
run6	11/18/2013	14:44:00	3.66	16.51
run6	11/18/2013	14:44:15	3.78	16.43
run6	11/18/2013	14:44:30	3.67	16.39
run6	11/18/2013	14:44:45	3.57	16.51
run6	11/18/2013	14:45:00	3.55	16.59
run6	11/18/2013	14:45:15	3.61	16.57
run6	11/18/2013	14:45:30	3.67	16.48
run6	11/18/2013	14:45:45	3.65	16.48
run6	11/18/2013	14:46:00	3.65	16.50
run6	11/18/2013	14:46:15	3.65	16.50
run6	11/18/2013	14:46:30	3.51	16.50
run6	11/18/2013	14:46:45	3.39	16.58
run6	11/18/2013	14:47:00	3.32	16.74
run6	11/18/2013	14:47:15	3.34	16.84
run6	11/18/2013	14:47:30	3.29	16.84
run6	11/18/2013	14:47:45	3.37	16.85
run6	11/18/2013	14:48:00	3.54	16.73
run6	11/18/2013	14:48:15	3.55	16.68
run6	11/18/2013	14:48:30	3.63	16.61
run6	11/18/2013	14:48:45	3.58	16.58
averun6	11/18/2013	14:49:00	3.55	16.62
scg1	11/18/2013	14:49:15	3.46	16.59
scg1	11/18/2013	14:49:30	3.47	16.68
scg1	11/18/2013	14:49:45	3.50	16.69

name	O2		CO2					
sn	1009241630		1009241630					
offset	0		0					
fullscale	100		20					
train	1		1					
gastype	o2 3a		co2 3a					
scg1	11/18/2013	14:50:00	1.73	13.46	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:50:15	0.07	3.99	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:50:30	0.06	0.72	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:50:45	0.04	0.13	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:51:00	0.02	0.06	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:51:15	0.06	0.04	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:51:30	0.04	0.02	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:51:45	0.03	0.01	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:52:00	0.04	0.00	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:52:15	0.04	0.00	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:52:30	0.03	0.00	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:52:45	0.03	-0.01	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:53:00	0.03	-0.02	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:53:15	0.04	-0.01	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:53:30	0.03	-0.02	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:53:45	0.03	-0.02	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/18/2013	14:54:00	0.02	-0.02	CC281765/cg1	CO	0	0 CO2 0 02 0
co2zero1	11/18/2013	14:54:00	0.02	-0.02	CC281765/cg1	CO	0	0 CO2 0 02 0
o2zero1	11/18/2013	14:54:00	0.02	-0.02	CC281765/cg1	CO	0	0 CO2 0 02 0
scg5	11/18/2013	14:54:15	0.00	-0.03	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:54:30	0.05	-0.03	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:54:45	0.05	-0.02	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:55:00	0.02	-0.03	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:55:15	5.08	0.36	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:55:30	9.76	4.80	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:55:45	9.90	8.54	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:56:00	9.91	9.23	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:56:15	9.90	9.40	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:56:30	9.91	9.44	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:56:45	9.93	9.44	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:57:00	9.92	9.45	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:57:15	9.95	9.47	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:57:30	9.92	9.49	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:57:45	9.95	9.49	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:58:00	9.93	9.47	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:58:15	9.94	9.48	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg5	11/18/2013	14:58:30	9.96	9.50	CC427756/cg5	O2	10.03 CO2	9.624 0 0
o2span1	11/18/2013	14:58:30	9.96	9.50	CC427756/cg5	O2	10.03 CO2	9.624 0 0
scg6	11/18/2013	14:58:45	9.94	9.51	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	14:59:00	9.95	9.51	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	14:59:15	9.92	9.48	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	14:59:30	9.94	9.49	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	14:59:45	16.56	10.27	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:00:00	20.04	14.65	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:00:15	20.17	17.68	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:00:30	20.18	18.37	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:00:45	20.21	18.61	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:01:00	20.23	18.69	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:01:15	20.19	18.72	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:01:30	20.21	18.72	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:01:45	20.22	18.68	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:02:00	20.21	18.70	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:02:15	20.23	18.75	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:02:30	20.22	18.76	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:02:45	20.23	18.74	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:03:00	20.21	18.71	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:03:15	20.23	18.73	CC365323/cg6	O2	20.37 CO2	19.07 0 0
scg6	11/18/2013	15:03:30	20.22	18.77	CC365323/cg6	O2	20.37 CO2	19.07 0 0
co2span1	11/18/2013	15:03:30	20.22	18.77	CC365323/cg6	O2	20.37 CO2	19.07 0 0
run7i	11/18/2013	15:04:00	20.23	18.76				
run7i	11/18/2013	15:04:15	20.20	18.72				
run7i	11/18/2013	15:04:30	19.50	18.76				
run7i	11/18/2013	15:04:45	6.63	18.39				
run7	11/18/2013	15:05:00	3.86	17.13				
run7	11/18/2013	15:05:15	3.88	16.59				
run7	11/18/2013	15:05:30	3.85	16.42				
run7	11/18/2013	15:05:45	3.65	16.46				
run7	11/18/2013	15:06:00	3.53	16.66				
run7	11/18/2013	15:06:15	3.49	16.76				
run7	11/18/2013	15:06:30	3.45	16.78				
run7	11/18/2013	15:06:45	3.50	16.77				
run7	11/18/2013	15:07:00	3.51	16.77				
run7	11/18/2013	15:07:15	3.49	16.81				
run7	11/18/2013	15:07:30	3.56	16.76				
run7	11/18/2013	15:07:45	3.60	16.65				
run7	11/18/2013	15:08:00	3.60	16.64				
run7	11/18/2013	15:08:15	3.59	16.66				
run7	11/18/2013	15:08:30	3.61	16.69				
run7	11/18/2013	15:08:45	3.57	16.66				
run7	11/18/2013	15:09:00	3.71	16.60				
run7	11/18/2013	15:09:15	3.69	16.50				
run7	11/18/2013	15:09:30	3.67	16.54				
run7	11/18/2013	15:09:45	3.67	16.58				
run7	11/18/2013	15:10:00	3.74	16.53				
run7	11/18/2013	15:10:15	3.74	16.46				
run7	11/18/2013	15:10:30	3.78	16.43				
run7	11/18/2013	15:10:45	3.62	16.50				
run7	11/18/2013	15:11:00	3.52	16.66				
run7	11/18/2013	15:11:15	3.49	16.72				
run7	11/18/2013	15:11:30	3.41	16.73				
run7	11/18/2013	15:11:45	3.60	16.78				
run7	11/18/2013	15:12:00	3.62	16.68				
run7	11/18/2013	15:12:15	3.58	16.66				
run7	11/18/2013	15:12:30	3.67	16.62				
run7	11/18/2013	15:12:45	3.55	16.56				
run7	11/18/2013	15:13:00	3.58	16.64				
run7	11/18/2013	15:13:15	3.68	16.66				
run7	11/18/2013	15:13:30	3.77	16.57				

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run7	11/18/2013	15:13:45	3.77	16.42
run7	11/18/2013	15:14:00	3.67	16.43
run7	11/18/2013	15:14:15	3.72	16.54
run7	11/18/2013	15:14:30	3.85	16.49
run7	11/18/2013	15:14:45	3.86	16.38
run7	11/18/2013	15:15:00	3.88	16.30
run7	11/18/2013	15:15:15	3.86	16.30
run7	11/18/2013	15:15:30	3.69	16.38
run7	11/18/2013	15:15:45	3.52	16.55
run7	11/18/2013	15:16:00	3.57	16.68
run7	11/18/2013	15:16:15	3.51	16.60
run7	11/18/2013	15:16:30	3.44	16.68
run7	11/18/2013	15:16:45	3.35	16.79
run7	11/18/2013	15:17:00	3.35	16.88
run7	11/18/2013	15:17:15	3.43	16.87
run7	11/18/2013	15:17:30	3.39	16.81
run7	11/18/2013	15:17:45	3.49	16.81
run7	11/18/2013	15:18:00	3.63	16.74
run7	11/18/2013	15:18:15	3.68	16.61
run7	11/18/2013	15:18:30	3.61	16.56
run7	11/18/2013	15:18:45	3.46	16.61
run7	11/18/2013	15:19:00	3.53	16.71
run7	11/18/2013	15:19:15	3.57	16.71
run7	11/18/2013	15:19:30	3.46	16.66
run7	11/18/2013	15:19:45	3.38	16.71
run7	11/18/2013	15:20:00	3.39	16.81
run7	11/18/2013	15:20:15	3.44	16.81
run7	11/18/2013	15:20:30	3.54	16.78
run7	11/18/2013	15:20:45	3.64	16.65
run7	11/18/2013	15:21:00	3.64	16.57
run7	11/18/2013	15:21:15	3.58	16.58
run7	11/18/2013	15:21:30	3.45	16.66
run7	11/18/2013	15:21:45	3.45	16.73
run7	11/18/2013	15:22:00	3.49	16.71
run7	11/18/2013	15:22:15	3.54	16.70
run7	11/18/2013	15:22:30	3.51	16.68
run7	11/18/2013	15:22:45	3.56	16.70
run7	11/18/2013	15:23:00	3.56	16.63
run7	11/18/2013	15:23:15	3.49	16.61
run7	11/18/2013	15:23:30	3.45	16.70
run7	11/18/2013	15:23:45	3.61	16.73
run7	11/18/2013	15:24:00	3.69	16.62
run7	11/18/2013	15:24:15	3.80	16.48
run7	11/18/2013	15:24:30	3.91	16.33
run7	11/18/2013	15:24:45	3.80	16.31
run7	11/18/2013	15:25:00	3.88	16.37
run7	11/18/2013	15:25:15	3.88	16.29
run7	11/18/2013	15:25:30	3.71	16.27
run7	11/18/2013	15:25:45	3.51	16.48
run7	11/18/2013	15:26:00	3.39	16.69
run7	11/18/2013	15:26:15	3.33	16.83
run7	11/18/2013	15:26:30	3.48	16.80
run7	11/18/2013	15:26:45	3.52	16.68
run7	11/18/2013	15:27:00	3.49	16.68
run7	11/18/2013	15:27:15	3.31	16.73
run7	11/18/2013	15:27:30	3.11	16.89
run7	11/18/2013	15:27:45	3.08	17.00
run7	11/18/2013	15:28:00	3.01	17.09
run7	11/18/2013	15:28:15	3.12	17.17
run7	11/18/2013	15:28:30	3.42	17.02
run7	11/18/2013	15:28:45	3.36	16.82
run7	11/18/2013	15:29:00	3.34	16.78
run7	11/18/2013	15:29:15	3.35	16.80
run7	11/18/2013	15:29:30	3.28	16.85
run7	11/18/2013	15:29:45	3.19	16.92
run7	11/18/2013	15:30:00	3.31	16.94
run7	11/18/2013	15:30:15	3.52	16.78
run7	11/18/2013	15:30:30	3.55	16.67
run7	11/18/2013	15:30:45	3.66	16.62
run7	11/18/2013	15:31:00	3.66	16.54
run7	11/18/2013	15:31:15	3.66	16.49
run7	11/18/2013	15:31:30	3.58	16.50
run7	11/18/2013	15:31:45	3.56	16.57
run7	11/18/2013	15:32:00	3.65	16.60
run7	11/18/2013	15:32:15	3.71	16.52
run7	11/18/2013	15:32:30	3.63	16.44
run7	11/18/2013	15:32:45	3.47	16.51
run7	11/18/2013	15:33:00	3.31	16.69
run7	11/18/2013	15:33:15	3.51	16.78
run7	11/18/2013	15:33:30	3.34	16.72
run7	11/18/2013	15:33:45	3.17	16.83
run7	11/18/2013	15:34:00	3.14	16.92
run7	11/18/2013	15:34:15	3.35	16.95
run7	11/18/2013	15:34:30	3.52	16.83
run7	11/18/2013	15:34:45	3.69	16.65
run7	11/18/2013	15:35:00	3.73	16.48
run7	11/18/2013	15:35:15	3.67	16.38
run7	11/18/2013	15:35:30	3.57	16.46
run7	11/18/2013	15:35:45	3.78	16.55
run7	11/18/2013	15:36:00	4.05	16.37
run7	11/18/2013	15:36:15	4.10	16.12
run7	11/18/2013	15:36:30	3.90	16.05
run7	11/18/2013	15:36:45	3.81	16.20
run7	11/18/2013	15:37:00	3.82	16.34
run7	11/18/2013	15:37:15	3.92	16.33
run7	11/18/2013	15:37:30	3.85	16.26
run7	11/18/2013	15:37:45	3.75	16.29
run7	11/18/2013	15:38:00	3.57	16.39

Raw 3A Data
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name		O2	CO2
sn		1009241630	1009241630
offset		0	0
fullscale		100	20
train		1	1
gastype		o2 3a	co2 3a
o2mid	Parameter Not Found		
o2high	Parameter Not Found		
thcezero	Parameter Not Found		
thclow	Parameter Not Found		
thcmid	Parameter Not Found		
thchigh	Parameter Not Found		
coezero	Parameter Not Found		
colow	Parameter Not Found		
comid	Parameter Not Found		
cohig	Parameter Not Found		
End			

HCI & HF RATAs

Traverse Point Data
Method 3A Data
Method 4 Data
Laboratory Report

ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/15/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	1
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	323	°F
Avg Gas Meter Temp	(t _m)	65	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.09	in H ₂ O
Stack Moisture Content	(B _{ws})	21.5	%
Stack Dry Molecular Weight	(M _{ds})	30.85	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.28	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2461	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	30.00	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.95	in Hg
Absolute Meter Pressure	(P _m)	30.14	in Hg

ΔV_m		Leak Checks			
Pre	0.009	ft ³ /min	@	14	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.001	ft ³ /min	@	7	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

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ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/15/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	2
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	323	°F
Avg Gas Meter Temp	(t _m)	79	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.09	in H ₂ O
Stack Moisture Content	(B _{ws})	21.5	%
Stack Dry Molecular Weight	(M _{ds})	30.86	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.32	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2429	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	30.00	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.95	in Hg
Absolute Meter Pressure	(P _m)	30.14	in Hg

ΔV_m		Leak Checks			
Pre	0	ft ³ /min	@	9	in Hg
Mid		ft ³ /min	@		in Hg
Post	0	ft ³ /min	@	8	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

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ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/15/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	3
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	323	°F
Avg Gas Meter Temp	(t _m)	75	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	21.5	%
Stack Dry Molecular Weight	(M _{ds})	30.87	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.31	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2492	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	30.00	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.95	in Hg
Absolute Meter Pressure	(P _m)	30.14	in Hg

ΔV_m		Leak Checks			
Pre	0.004	ft ³ /min	@	10	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.003	ft ³ /min	@	9	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

[illegible]

ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/15/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	4
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	323	°F
Avg Gas Meter Temp	(t _m)	75	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	21.5	%
Stack Dry Molecular Weight	(M _{ds})	30.85	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.31	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2491	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	30.00	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.95	in Hg
Absolute Meter Pressure	(P _m)	30.14	in Hg

ΔV_m		Leak Checks			
Pre	0.003	ft ³ /min	@	12	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.003	ft ³ /min	@	11	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

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ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/15/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	5
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	323	°F
Avg Gas Meter Temp	(t _m)	75	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	21.5	%
Stack Dry Molecular Weight	(M _{ds})	30.86	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.31	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2492	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	30.00	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.95	in Hg
Absolute Meter Pressure	(P _m)	30.14	in Hg

ΔV_m		Leak Checks			
Pre	0.009	ft ³ /min	@	14	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.001	ft ³ /min	@	9	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

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ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/15/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	6
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _g)	323	°F
Avg Gas Meter Temp	(t _m)	75	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	24.0	%
Stack Dry Molecular Weight	(M _{ds})	30.86	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.24	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2525	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	30.00	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.95	in Hg
Absolute Meter Pressure	(P _m)	30.14	in Hg

ΔV_m		Leak Checks			
Pre	0.002	ft ³ /min	@	13	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.001	ft ³ /min	@	7	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

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ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/16/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	7
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	330	°F
Avg Gas Meter Temp	(t _m)	70	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	22.0	%
Stack Dry Molecular Weight	(M _{ds})	30.85	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.27	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2513	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	29.89	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.84	in Hg
Absolute Meter Pressure	(P _m)	30.03	in Hg

ΔV_m		Leak Checks			
Pre	0.002	ft ³ /min	@	10	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.001	ft ³ /min	@	7	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

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ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/16/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	8
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	325	°F
Avg Gas Meter Temp	(t _m)	70	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	22.0	%
Stack Dry Molecular Weight	(M _{ds})	30.87	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.28	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2510	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	29.89	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.84	in Hg
Absolute Meter Pressure	(P _m)	30.03	in Hg

ΔV_m		Leak Checks			
Pre	0.013	ft ³ /min	@	14	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.008	ft ³ /min	@	11	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

[illegible]

ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/16/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	9
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	330	°F
Avg Gas Meter Temp	(t _m)	70	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	22.0	%
Stack Dry Molecular Weight	(M _{ds})	30.87	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.27	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2513	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	29.89	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.84	in Hg
Absolute Meter Pressure	(P _m)	30.03	in Hg

ΔV_m		Leak Checks			
Pre	0.002	ft ³ /min	@	13	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.002	ft ³ /min	@	8	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

[illegible]

ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/16/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	11
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	325	°F
Avg Gas Meter Temp	(t _m)	70	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	22.0	%
Stack Dry Molecular Weight	(M _{ds})	30.86	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.28	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2509	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	29.89	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.84	in Hg
Absolute Meter Pressure	(P _m)	30.03	in Hg

ΔV_m		Leak Checks			
Pre	0.001	ft ³ /min	@	9	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.002	ft ³ /min	@	8	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

[illegible]

ISOKINETIC SAMPLING DATA

Plant Name	GREC	Date	11/16/2013
Sampling Location	Stack	Project #	6132
Operator	CRH/AH/MS	Run #	12
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.840	
Avg Stack Temp	(t _s)	330	°F
Avg Gas Meter Temp	(t _m)	70	°F
DH @ 0.75 SCFM	(ΔH@)	1.92	in H ₂ O
Avg Pitot Tube Diff. Pressure	(Δp _{avg})	1.00	in H ₂ O
Stack Moisture Content	(B _{ws})	22.0	%
Stack Dry Molecular Weight	(M _{ds})	30.86	lb/lb-mole
Estimated Orifice Flow Rate	(Q _m)	0.7500	acfm
DP to DH Isokinetic Factor	(K)	1.27	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Nozzle #	218-18		
Actual Nozzle Diameter	(D _{na})	0.2230	in
Req. Nozzle Diameter	(D _{ni})	0.2513	in
Probe # / Length	P5	6.00	ft
Liner Material	glass		
Sample Case / Oven #			
Impinger Case #	-		

Pressures			
Barometric Pressure	(P _b)	29.89	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O
Absolute Stack Pressure	(P _s)	29.84	in Hg
Absolute Meter Pressure	(P _m)	30.03	in Hg

ΔV_m		Leak Checks			
Pre	0.001	ft ³ /min	@	10	in Hg
Mid		ft ³ /min	@		in Hg
Post	0.001	ft ³ /min	@	9	in Hg
$\Delta V_m <$	0.020	ft ³ /min	☒	Leak Check OK?	
Pitot OK?	☒	Orsat OK?		☐	

[illegible]

C.E.M. SOLUTIONS SAMPLE DATA SHEET

Plant Name	Gree	Date	11/15/13
Sampling Location	Stack	Project #	6132
Operators	MS/AH	Run #	1
Test Method	26A	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.84	
Avg Stack Temp	(t _s)	323	°F
Avg Gas Meter Temp	(t _m)	65	°F
DH @ 0.75 SCFM	(ΔH@)	1.918	in H ₂ O
Avg Pitot Tube Diff. Pressure	(ΔP _{avg})	1.09	in H ₂ O
Stack Moisture Content	(B _{ws})	21.5	%
Oxygen	(O ₂)	3	%
Carbon Dioxide	(CO ₂)	17	%
Estimated Orifice Flow Rate	(Q _m)	0.75	acfm
K-Factor	(K)	1.29	

Sampling Equipment			
Meter #	CEMS3AB		
Meterbox Cal. Factor	(Y)	0.961	
Filter / Nozzle #	N/A / G218-18		
Actual Nozzle Diameter	(D _{na})	0.223	in
Req. Nozzle Diameter	(D _n)	0.246	in
Probe #	P5		
Liner Material	Boro		
Pitot #	Pt-22		
Thermocouple #	TC5		

Nozzle in direction of flow?	☒

Pressures			
Barometric Pressure	(P _b)	30.00	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O

Leak Checks					
AV _m	Pre	0.009	ft ³ /min	@	14
	Post	0.001	ft ³ /min	@	7
Leak Checks					
Pitot	Pre	0.000	inches	@	5.1
	Post	0.00	inches	@	3.4
Orsat	Pre	Y/N		Post	Y/N

Traverse Point #	Sampling Time (0)	CEMS Clock Time	Dry Gas Meter Reading (V _m)	Velocity Head (Δp)	Desired Orifice ΔH (ΔH)	Actual Orifice ΔH (ΔH)	Stack Temp (t _s)	Probe Temp (t _p)	Meter Outlet Temp (t _{mo})	Filter Temp	Impinger Exit Temp <68 °F	Pump Vacuum
	min	hh:mm:ss	ft ³	in H ₂ O	in H ₂ O	in H ₂ O	°F	°F	°F	°F	°F	in Hg
A 1	0	0834	100.250	1.2	1.54	1.5	322	250	57	238	61	3
2	5	0944	603.6	1.2	1.54	1.5	324	251	58	266	56	3
3	10	0949	607.1	0.91	1.10	1.2	325	244	59	257	59	3
B 1	15	0958	610.0	0.95	1.22	1.2	325	243	61	226	58	3
2	20	1003	613.0	0.99	1.27	1.3	326	244	61	265	56	3
3	25	1008	616.2	0.87	1.11	1.1	326	244	63	254	57	3
C 1	30	1017	619.7	0.92	1.18	1.2	326	244	62	239	57	3
2	35	1022	622.1	0.96	1.23	1.2	326	245	63	278	58	3
3	40	1027	625.0	0.83	1.06	1.1	326	246	63	260	61	3
D 1	45	1034	627.8	1.1	1.41	1.4	325	244	63	244	61	3
2	50	1039	631.1	1.1	1.41	1.4	325	245	64	265	63	3
3	55	1044	634.4	0.92	1.10	1.1	323	245	65	256	64	3
Last	60	1049	637.201									

Operator Signature

[Signature]

Start. 0939

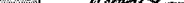
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C.E.M. SOLUTIONS SAMPLE DATA SHEET			
Plant Name	Greer	Date	11/15/13
Sampling Location	Stack	Project #	0132
Operators	MS/AH	Run #	2
Test Method	260A	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Sampling Equipment			
Meter #	CEMS3 MB		
Meterbox Cal. Factor	(Y)	0.961	
Filter / Nozzle #	N/A / G218-18		
Actual Nozzle Diameter	(D _{na})	0.223	in
Req. Nozzle Diameter	(D _{ni})	0.221	in
Probe #	P5		
Liner Material	Bore		
Pitot #	P4-22		
Thermocouple #	TES		

Nozzle in direction of flow? ☒

Pitot		Leak Checks			
Pre	0.00	inches	@	3.4	in H ₂ O
Post	0.00	inches	@	3.8	in H ₂ O
Orsat	Pre	Y/N	Post	Y/N	Circle One

Operator Signature 

C.E.M. SOLUTIONS SAMPLE DATA SHEET			
Plant Name	Grec	Date	11/15/13
Sampling Location	Stack	Project #	6132
Operators	MS/AH	Run #	21
Test Method	2609	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Sampling Equipment					
Meter #	CEMS 3 MB				
Meterbox Cal. Factor	(Y)	D.961			
Filter / Nozzle #	1 G218-18				
Actual Nozzle Diameter	(D _{na})	0.223	in		
Req. Nozzle Diameter	(D _{nr})	0.249	in		
Probe #	P5				
Liner Material	80x0				
Pitot #	TC5 PT-22				
Thermocouple #	TC5				
ΔV_m		Leak Checks			
Pre	0.003	ft ³ /min	@	12	in Hg
Post	0.003	ft ³ /min	@	11	in Hg
Pitot		Leak Checks			
Pre	0.00	inches	@	3.1	in H ₂ O
Post	0.00	inches	@	3.9	in H ₂ O
Orsat	Pre	~~Y / N~~	Post	~~Y / N~~	Circle On

Nozzle in direction of flow? ☒

Pressures			
Barometric Pressure	(P_b)	30.00	in Hg
Stack Static Pressure	(P_{static})	-0.08	in H ₂ O

[illegible]

Operator Signature

C.E.M. SOLUTIONS SAMPLE DATA SHEET			
Plant Name	Grec	Date	11/15/13
Sampling Location	Stack	Project #	6152
Operators	MS/AH	Run #	5
Test Method	26M	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Sampling Equipment					
Meter #		CEMS 3MB			
Meterbox Cal. Factor		(Y)	0.961		
Filter / Nozzle #		1 G218-18			
Actual Nozzle Diameter		(D _{na})	0.223	in	
Reg. Nozzle Diameter		(D _n)	0.249	in	
Probe #		P5			
Liner Material		Boro			
Pitot #		PT-22			
Thermocouple #		TC-5			
ΔV _m		Leak Checks			
Pre	0.009	ft ³ /min	@	14	in-Hg
Post	0.001	ft ³ /min	@	9	in-Hg
Pitot		Leak Checks			
Pre	0.00	inches	@	3.9	in H ₂ O
Post	0.00	inches	@	4.6	in H ₂ O
Orsat	Pre	~~Y / N~~	Post	~~Y / N~~	Circle One
		N/A			N/A

Pressures			
Barometric Pressure	(P_0)	30.0	in Hg
Stack Static Pressure	(P_{static})	-0.08	in H ₂ O

Operator Signature 

C.E.M. SOLUTIONS SAMPLE DATA SHEET

Plant Name	<u>Grac</u>	Date	<u>11/15/13</u>
Sampling Location	<u>Stack</u>	Project #	<u>6132</u>
Operators	<u>MS/AH</u>	Run #	<u>6</u>
Test Method	<u>26A</u>	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	<u>3</u>	# of Ports Used	<u>4</u>

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	<u>0.84</u>	
Avg Stack Temp	(t _s)	<u>325</u>	°F
Avg Gas Meter Temp	(t _m)	<u>75</u>	°F
ΔH @ 0.75 SCFM	(ΔH@)	<u>1.918</u>	in H ₂ O
Avg Pitot Tube Diff. Pressure	(ΔP _{avg})	<u>1.0</u>	in H ₂ O
Stack Moisture Content	(B _{ws})	<u>21.5</u>	%
Oxygen	(O ₂)	<u>3</u>	%
Carbon Dioxide	(CO ₂)	<u>17</u>	%
Estimated Orifice Flow Rate	(Q _m)	<u>0.75</u>	acfm
K-Factor	(K)	<u>1.32</u>	

Nozzle in direction of flow? ☒

Pressures			
Barometric Pressure	(P _b)	<u>30.00</u>	in Hg
Stack Static Pressure	(P _{static})	<u>-0.68</u>	in H ₂ O

Sampling Equipment			
Meter #	<u>CEMS 3MB</u>		
Meterbox Cal. Factor	(Y)	<u>0.961</u>	
Filter / Nozzle #	<u>16218-18</u>		
Actual Nozzle Diameter	(D _{na})	<u>0.223</u>	in
Req. Nozzle Diameter	(D _n)		in
Probe #	<u>P5</u>		
Liner Material	<u>Boro</u>		
Pitot #	<u>PT-22</u>		
Thermocouple #	<u>TC-5</u>		
ΔV _m	Leak Checks		
Pre	<u>0.002</u>	ft ³ /min	@ <u>13</u> in Hg
Post	<u>0.001</u>	ft ³ /min	@ <u>7</u> in Hg
Pitot	Leak Checks		
Pre	<u>0.00</u>	inches	@ <u>4.6</u> in H ₂ O
Post	<u>0.00</u>	inches	@ <u>4.2</u> in H ₂ O
Orsat	Pre <u>N/A</u>	Post <u>N/A</u>	Circle One

Traverse Point #	Sampling Time (min)	Clock Time	Dry Gas Meter Reading (V _m)	Velocity Head (Δp)	Desired Orifice ΔH (ΔH)	Actual Orifice ΔH (ΔH)	Stack Temp (t _s)	Probe Temp (t _p)	Meter Outlet Temp (t _{mo})	Filter Temp	Impinger Exit Temp <68 °F	Pump Vacuum
			ft ³	in H ₂ O	in H ₂ O	in H ₂ O	°F	°F	°F	°F	°F	in Hg
D 1	0	1709	794.300	1.1	1.45	1.5	324	245	72	216	66	3
2	5	1714	792.8	1.1	1.45	1.5	326	242	73	230	66	3
3	10	1719	801.2	0.88	1.16	1.2	327	244	73	245	64	3
1725 C 1	15	1725	804.3	0.91	1.20	1.2	328	245	73	229	65	3
2	20	1730	807.4	0.90	1.2	1.2	329	245	73	203	61	3
3	25	1735	810.5	0.85	1.12	1.1	328	244	73	253	65	3
B 1	30	1742	813.5	1.1	1.45	1.5	329	230	73	221	64	3
2	35	1747	816.9	1.1	1.45	1.5	329	245	73	202	65	3
3	40	1752	820.4	0.93	1.23	1.2	329	245	73	255	61	3
A 1	45	1759	823.5	1.1	1.45	1.5	329	239	73	226	65	3
2	50	1804	826.9	1.2	1.58	1.6	330	244	73	253	63	3
3	55	1809	830.3	0.97	1.28	1.3	330	243	73	253	65	3
Last	60	1814	833.581									

Operator Signature

C.E.M. SOLUTIONS SAMPLE DATA SHEET

Plant Name <i>Fagen Greco</i>	Date <i>11/16/13</i>
Sampling Location <i>stack</i>	Project # <i>6132</i>
Operators <i>MS/AH</i>	Run # <i>7</i>
Test Method <i>ALA</i>	Sampling Type ☒ Isokinetic ☐ Constant Rate
# of Points Across <i>3</i>	# of Ports Used <i>4</i>

Pitot Tube Coefficient	(C _p)	<i>0.84</i>	
Avg Stack Temp	(t _s)	<i>833.0</i>	°F
Avg Gas Meter Temp	(t _m)	<i>70</i>	°F
DH @ 0.75 SCFM	(ΔH@)	<i>1.918</i>	in H ₂ O
Avg Pitot Tube Diff. Pressure	(ΔP _{avg})	<i>1.0</i>	in H ₂ O
Stack Moisture Content	(B _{ws})	<i>22</i>	%
Oxygen	(O ₂)	<i>3</i>	%
Carbon Dioxide	(CO ₂)	<i>17</i>	%
Estimated Orifice Flow Rate	(Q _m)	<i>0.75</i>	acfm
K-Factor	(K)	<i>1.27</i>	

Meter #	<i>CEMS 34B</i>
Meterbox Cal. Factor	(Y) <i>0.961</i>
Filter / Nozzle #	<i>1 G218-18</i>
Actual Nozzle Diameter	(D _{na}) <i>0.223</i> in
Req. Nozzle Diameter	(D _n) <i>0.251</i> in
Probe #	<i>P5</i>
Liner Material	<i>Boro</i>
Pitot #	<i>PT-22</i>
Thermocouple #	<i>TC-5</i>

Nozzle in direction of flow? ☒

Barometric Pressure	(P _b)	<i>29.89</i>	in Hg
Stack Static Pressure	(P _{static})	<i>-0.68</i>	in H ₂ O

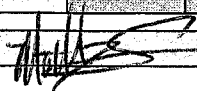
Pre	<i>0.002</i>	ft ³ /min	@	<i>10</i>	in Hg
Post	<i>0.001</i>	ft ³ /min	@	<i>7</i>	in Hg

Pre	<i>0.00</i>	inches	@	<i>4.2</i>	in H ₂ O
Post	<i>0.00</i>	inches	@	<i>1.8</i>	in H ₂ O

0901

Traverse Point #	Sampling Time (t)	CEMS Stack Time	Dry Gas Meter Reading (V _m)	Velocity Head (Δp)	Desired Orifice ΔH (ΔH)	Actual Orifice ΔH (ΔH)	Stack Temp (t _s)	Probe Temp (t _p)	Meter Outlet Temp (t _{mo})	Filter Temp	Impinger Exit Temp <68 °F	Pump Vacuum
	min	hh:mm:ss	ft ³	in H ₂ O	in H ₂ O	in H ₂ O	°F	°F	°F	°F	°F	in Hg
A 1	0	~~0900~~	835.019	1.2	1.52	1.5	320	245	61	220	56	4
2	5	0906	838.5	1.2	1.52	1.5	321	244	62	258	50	4
3	10	0911	841.9	0.93	1.18	1.2	322	245	63	260	52	4
B 1	15	0916	844.9	1.1	1.46	1.4	323	243	64	242	56	3
2	20	0923	848.1	1.0	1.27	1.3	323	245	64	265	55	4
3	25	0928	851.3	0.96	1.22	1.2	324	244	65	256	56	3
C 1	30	0934	854.4	1.06	1.22	1.2	322	232	64	230	56	3
2	35	0939	857.5	0.96	1.22	1.2	325	246	65	267	57	3
3	40	0944	860.6	0.81	1.03	1.0	326	245	65	257	56	3
D 1	45	0951	863.3	1.0	1.27	1.3	326	244	65	245	57	3
2	50	0956	866.5	1.0	1.27	1.3	327	245	65	261	61	3
3	55	1001	869.7	0.96	1.22	1.2	327	240	65	252	63	3
Last	60	1006	872.716									

Operator Signature



C.E.M. SOLUTIONS
SAMPLE DATA SHEET

Plant Name	Cree	Date	11/16/13
Sampling Location	Stack	Project #	0132
Operator	MS/AH	Run #	8
Test Method	26A	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup

Pitot Tube Coefficient	(C_p)	0.84	
Avg Stack Temp	(T_s)	325	°F
Avg Gas Meter Temp	(T_m)	70	°F
DH @ 0.75 SCFM	($\Delta H @$)	1.918	in H ₂ O
Avg Pitot Tube Diff. Pressure	(ΔP_{avg})	1.00	in H ₂ O
Stack Moisture Content	(B_{ws})	22	%
Oxygen	(O_2)	3	%
Carbon Dioxide	(CO_2)	12	%
Estimated Orifice Flow Rate	(Q_m)	0.75	acfm
K-Factor	(K)	1.28	

Sampling Equipment

Meter #	CEMS 3 M15		
Meterbox Cal. Factor	(M)	0.961	
Filter / Nozzle #	- 16218-10		
Actual Nozzle Diameter	(D _n)	0.223	in
Req. Nozzle Diameter	(D _n)	0.250	in
Probe #	P5		
Liner Material	Eoro		
Pitot #	P7-22		
Thermocouple #	TC-5		

Pressures

Barometric Pressure	(P_{bar})	29.89	in Hg
Stack Static Pressure	(P_{static})	-0.68	in H ₂ O

ΔV_m Leak Checks

Pre	0.013	ft ³ /min	@	14	in Hg
Post	0.008	ft ³ /min	@	11	in Hg

Pitot **Leak Checks**

Pre	0.00	ft/min	@	3.2	in Hg
Post	0.00	ft/min	@	3.6	in Hg

[illegible]

C.E.M. SOLUTIONS SAMPLE DATA SHEET			
Plant Name	GREC	Date	11/16/13
Sampling Location	Stack	Project #	63 6132
Operator	MS/AH	Run #	9
Test Method	ALA	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.84	
Avg Stack Temp	(T _g)	330	°F
Avg Gas Meter Temp	(T _m)	70	°F
DH @ 0.75 SCFM	(ΔH@)	1.918	in H ₂ O
Avg Pitot Tube Diff. Pressure	(ΔP _{avg})	1.0	in H ₂ O
Stack Moisture Content	(B _{ws})	22	%
Oxygen	(O ₂)	3	%
Carbon Dioxide	(CO ₂)	17	%
Estimated Orifice Flow Rate	(Q _m)	0.75	acfm
K-Factor	(K)	1.27	

Sampling Equipment			
Meter #	CENS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Filter / Nozzle #	n/a / G218-18		
Actual Nozzle Diameter	(D _{act})	0.223	in
Req. Nozzle Diameter	(D _{req})	0.251	in
Probe #	P5		
Liner Material	Boro		
Pilot #	PT-22		
Thermocouple #	TC-5		

Pressures			
Barometric Pressure	(P_b)	29.89	in Hg
Stack Static Pressure	(P_{stack})	-0.48	in H ₂ O

ΔV_m		Leak Checks			
Pre	0.002	ft ³ /min	@	13	in Hg
Post	0.002	ft ³ /min	@	8	in Hg
Pitot		Leak Checks			
Pre	0.00	ft ³ /min	@	3.8	in Hg
Post	0.00	ft ³ /min	@	4.1	in Hg

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C.E.M. SOLUTIONS SAMPLE DATA SHEET			
Plant Name	GREC	Date	11/16/13
Sampling Location	Stack	Project #	6132
Operator	MS/AH	Run #	10
Test Method	26A	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Sampling Equipment			
Meter #	CERIS JMD		
Meterbox Cal. Factor	(M)	0.961	
Filter / Nozzle #	1 G210-10		
Actual Nozzle Diameter	(D _{no})	0.223	in
Req. Nozzle Diameter	(D _r)		in
Probe #	P5		
Liner Material	Boro		
Pilot #	PT-22		
Thermocouple #	TC-5		

ΔV_m		Leak Checks			
Pre	0.003	ft ³ /min	@	12	in Hg
Post	0.006	ft ³ /min	@	10	in Hg

Pitot		Leak Checks			
Pre	0.60	ft ³ /min	@	4.1	in Hg
Post	1.60	ft ³ /min	@	3.2	in Hg

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C.E.M. SOLUTIONS SAMPLE DATA SHEET

Plant Name	Gree	Date	11/16/13
Sampling Location	Stack	Project #	W-132 6132
Operator	M/AN	Run #	11
Test Method	alen	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.84	
Avg Stack Temp	(t _s)	335	°F
Avg Gas Meter Temp	(t _m)	75	°F
DH @ 0.75 SCFM	(ΔH _{0.75})	1.918	in H ₂ O
Avg Pitot Tube Diff. Pressure	(ΔP _{avg})	1.0	in H ₂ O
Stack Moisture Content	(B _{avg})	2.2	%
Oxygen	(O ₂)	3	%
Carbon Dioxide	(CO ₂)	1.7	%
Estimated Orifice Flow Rate	(Q _e)	0.75	acfm
K-Factor	(K)	1.27	

Sampling Equipment			
Meter #	CEB 3MP		
Meterbox Cal. Factor	(Y)	0.961	
Filter / Nozzle #		6218-18	
Actual Nozzle Diameter	(D _a)	0.223	in
Req. Nozzle Diameter	(D _r)		in
Probe #	P5		
Liner Material	Boro		
Pitot #	PT-22		
Thermocouple #	TC5		

Pressures			
Barometric Pressure	(P _b)	29.69	in Hg
Stack Static Pressure	(P _{static})	-0.66	in H ₂ O

Leak Checks					
Pre	0.001	ft ³ /min	@	9	in Hg
Post	0.002	ft ³ /min	@	8	in Hg
Pitot Leak Checks					
Pre	0.00	ft ³ /min	@	5.2	in Hg
Post	0.00	ft ³ /min	@	3.4	in Hg

Traverse Point #	Sampling Time (s)	Clock Time	Dry Gas Meter Reading (V _m)	Velocity Head (ΔP)	Desired Orifice ΔH (ΔH)	Actual Orifice ΔH (ΔH)	Stack Temp (t _s)	Probe Temp (t _p)	Meter Outlet Temp (t _{mo})	Filter Temp	Impinger Exit Temp (t _{eg})	Pump Vacuum
	min	hh:mm:ss	ft ³	in H ₂ O	in H ₂ O	in H ₂ O	°F	°F	°F	°F	°F	in Hg
A 1	0	1439	987.751	1.2	1.52	1.5	335	244	77	207	62	3
2	5	1444	991.2	1.2	1.52	1.5	336	243	78	221	53	3
3	10	1449	994.7	1.2	1.52	1.5	336	244	78	226	56	3
B 1	15	1457	998.0	1.3	1.65	1.7	336	241	78	239	59	3
2	20	1502	1001.8	1.2	1.52	1.5	336	244	78	231	57	3
3	25	1505	1005.3	1.0	1.27	1.3	335	246	74	275	60	3
C 1	30	1514	1008.5	1.1	1.4	1.4	336	244	80	240	68	3
2	35	1519	1011.8	1.1	1.4	1.4	336	245	80	261	66	3
3	40	1524	1015.2	0.96	1.22	1.2	336	245	80	258	67	3
D 1	45	1530	1018.3	1.1	1.4	1.4	335	242	80	239	67	3
2	50	1537	1021.6	1.2	1.52	1.5	336	246	80	291	57	3
3	55	1539	1025.0	0.96	1.22	1.2	336	247	78	290	59	3
14.1	60	1601	1028.095									

Lost power
47:30 min
into run
Regained, restart
@ 1549

C.E.M. SOLUTIONS SAMPLE DATA SHEET

Plant Name	BREC	Date	11/16/13
Sampling Location	Stack	Project #	6032
Operator	MS/AAH	Run #	12
Test Method	26A	Sampling Type	Isokinetic ☒ Constant Rate ☐
# of Points Across	3	# of Ports Used	4

Ideal Nozzle Diameter and IsoKinetic Factor Setup			
Pitot Tube Coefficient	(C _p)	0.84	
Avg Stack Temp	(t _s)	335	°F
Avg Gas Meter Temp	(t _m)	80	°F
DH @ 0.75 SCFM	(ΔH ₀)	1.918	in H ₂ O
Avg Pitot Tube Diff. Pressure	(ΔP _{avg})	1.0	in H ₂ O
Stack Moisture Content	(B _w)	22	%
Oxygen	(O ₂)	3	%
Carbon Dioxide	(CO ₂)	17	%
Estimated Orifice Flow Rate	(Q _e)	0.75	acfm
K-Factor	(K)	1.29	

Sampling Equipment			
Meter #	CEMS3MB		
Meterbox Cal. Factor	(Y)	0.961	
Filter / Nozzle #	-	1 G218-18	
Actual Nozzle Diameter	(D _a)	0.223	in
Req. Nozzle Diameter	(D _n)		in
Probe #	P5		
Liner Material	Boro		
Pitot #	PT-22		
Thermocouple #	TC-5		

Pressures			
Barometric Pressure	(P _b)	29.9615	in Hg
Stack Static Pressure	(P _{static})	-0.68	in H ₂ O

Leak Checks			
Pre	0.001	ft ³ /min	@ 10 in Hg
Post	0.001	ft ³ /min	@ 9 in Hg
Pitot Leak Checks			
Pre	0.02	ft ³ /min	@ 3.4 in Hg
Post	0.02	ft ³ /min	@ 3.5 in Hg

Traverse Point #	Sampling Time (s)	Clock Time	Dry Gas Meter Reading (V _m)	Velocity Head (Δp)	Desired Orifice ΔH (ΔH)	Actual Orifice ΔH (ΔH)	Stack Temp (t _s)	Probe Temp (t _p)	Meter Outlet Temp (t _m)	Filter Temp (°F)	Impinger Exit Temp (°F)	Pump Vacuum
	min	hh:mm:ss	ft ³	in H ₂ O	in H ₂ O	in H ₂ O	°F	°F	°F	°F	°F	in Hg
D1	0	1623	29.050	1.1	1.42	1.4	335	246	77	202	62	3
2	5	1628	32.4	1.1	1.42	1.4	335	246	78	235	58	3
3	10	1633	35.8	1.0	1.29	1.3	334	246	78	246	58	3
D1 C	15	1640	39.0	1.0	1.29	1.3	333	246	79	223	62	3
2	20	1645	42.2	1.1	1.42	1.4	335	247	79	278	60	3
3	25	1650	45.6	0.88	1.14	1.1	334	247	80	265	62	3
D1 B	30	1656	48.5	1.1	1.42	1.4	330	246	79	231	64	3
2	35	1701	51.4	1.0	1.42	1.4	334	246	79	275	63	3
3	40	1704	54.7	1.0	1.29	1.3	335	246	79	260	65	3
D1 A	45	1713	57.9	1.3	1.68	1.7	334	246	79	256	68	3
2	50	1718	60.7	1.2	1.55	1.6	335	246	79	271	61	3
3	55	1723	65.3	1.1	1.42	1.4	335	246	79	249	60	3
End	60	1728	68.646									

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METHOD 4 - DETERMINATION OF MOISTURE CONTENT IN STACK GASES

Plant Name	GREC				Date	11/15/13	
Sampling Location	Stack				Project #	6132	
Operator	CRH/AH/MS				# of Ports Used	4	
Stack Type	Circular				Meter Box Number	CEMS3MB	
Train Leak Check	☒	PreTest	☒	PostTest	Meter Cal Factor (Y)	0.961	

Moisture Content Data							
Run Number	1		Run Start Time	9:39		Run Stop Time	10:49
Total Meter Volume	(V _m)	36.951	dcf	Barometric Press.	(P _b)	30.00	in Hg
Avg Meter Temp	(t _m) _{avg}	62	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	325	°F	Avg Orifice Press.	(ΔH) _{avg}	1.27	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	852.70	708.50	608.80	772.10		
Initial Value	(V _i),(W _i)	694.60	672.00	605.40	755.90		
Net Value	(V _n),(W _n)	158.1	36.5	3.4	16.2		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	214.20	g	Water Vol Weighed	(V _{wsg(std)})	10.100	scf
Std Meter Volume	(V _{m(std)})	36.155	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws(calc)})	21.8	%	Final Moisture Content	(B _{ws})	21.8	%

Moisture Content Data							
Run Number	2		Run Start Time	11:14		Run Stop Time	12:21
Total Meter Volume	(V _m)	36.984	dcf	Barometric Press.	(P _b)	30.00	in Hg
Avg Meter Temp	(t _m) _{avg}	69	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	323	°F	Avg Orifice Press.	(ΔH) _{avg}	1.23	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	872.60	723.10	612.70	883.30		
Initial Value	(V _i),(W _i)	695.50	696.80	608.70	869.80		
Net Value	(V _n),(W _n)	177.1	26.3	4.0	13.5		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	220.90	g	Water Vol Weighed	(V _{wsg(std)})	10.415	scf
Std Meter Volume	(V _{m(std)})	35.665	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws})	22.6	%	Final Moisture Content	(B _{ws})	22.6	%

Moisture Content Data							
Run Number	3		Run Start Time	12:46		Run Stop Time	13:52
Total Meter Volume	(V _m)	37.938	dcf	Barometric Press.	(P _b)	30.00	in Hg
Avg Meter Temp	(t _m) _{avg}	70	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	324	°F	Avg Orifice Press.	(ΔH) _{avg}	1.31	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	851.90	723.10	614.20	786.40		
Initial Value	(V _i),(W _i)	672.10	693.70	608.80	772.10		
Net Value	(V _n),(W _n)	179.8	29.4	5.4	14.3		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	228.90	g	Water Vol Weighed	(V _{wsg(std)})	10.793	scf
Std Meter Volume	(V _{m(std)})	36.518	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws})	22.8	%	Final Moisture Content	(B _{ws})	22.8	%

METHOD 4 - DETERMINATION OF MOISTURE CONTENT IN STACK GASES

Plant Name	GREC				Date	11/15/13	
Sampling Location	Stack				Project #	6132	
Operator	CRH/AH/MS				# of Ports Used	4	
Stack Type	Circular				Meter Box Number	CEMS3MB	
Train Leak Check	☒	PreTest	☒	PostTest	Meter Cal Factor (Y)	0.961	

Moisture Content Data							
Run Number	4		Run Start Time	14:17		Run Stop Time	15:23
Total Meter Volume	(V _m)	40.317	dcf	Barometric Press.	(P _b)	30.00	in Hg
Avg Meter Temp	(t _m) _{avg}	72	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	325	°F	Avg Orifice Press.	(ΔH) _{avg}	1.40	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	909.40	722.10	616.40	947.20		
Initial Value	(V _i),(W _i)	699.20	691.80	612.70	930.40		
Net Value	(V _n),(W _n)	210.2	30.3	3.7	16.8		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	261.00	g	Water Vol Weighed	(V _{wsg(std)})	12.306	scf
Std Meter Volume	(V _{m(std)})	38.695	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws(calc)})	24.1	%	Final Moisture Content	(B _{ws})	24.1	%

Moisture Content Data							
Run Number	5		Run Start Time	15:44		Run Stop Time	16:51
Total Meter Volume	(V _m)	40.755	dcf	Barometric Press.	(P _b)	30.00	in Hg
Avg Meter Temp	(t _m) _{avg}	73	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	324	°F	Avg Orifice Press.	(ΔH) _{avg}	1.45	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	889.90	711.80	619.90	778.30		
Initial Value	(V _i),(W _i)	693.80	672.30	614.20	761.30		
Net Value	(V _n),(W _n)	196.1	39.5	5.7	17.0		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	258.30	g	Water Vol Weighed	(V _{wsg(std)})	12.179	scf
Std Meter Volume	(V _{m(std)})	39.065	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws})	23.8	%	Final Moisture Content	(B _{ws})	23.8	%

Moisture Content Data							
Run Number	6		Run Start Time	17:09		Run Stop Time	18:14
Total Meter Volume	(V _m)	39.281	dcf	Barometric Press.	(P _b)	30.00	in Hg
Avg Meter Temp	(t _m) _{avg}	73	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	328	°F	Avg Orifice Press.	(ΔH) _{avg}	1.36	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	877.00	733.00	621.00	958.90		
Initial Value	(V _i),(W _i)	696.20	692.50	616.40	947.20		
Net Value	(V _n),(W _n)	180.8	40.5	4.6	11.7		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	237.60	g	Water Vol Weighed	(V _{wsg(std)})	11.203	scf
Std Meter Volume	(V _{m(std)})	37.626	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws})	22.9	%	Final Moisture Content	(B _{ws})	22.9	%

METHOD 4 - DETERMINATION OF MOISTURE CONTENT IN STACK GASES

Plant Name	GREC				Date	11/16/13	
Sampling Location	Stack				Project #	6132	
Operator	CRH/AH/MS				# of Ports Used	4	
Stack Type	Circular				Meter Box Number	CEMS3MB	
Train Leak Check	☒	PreTest	☒	PostTest	Meter Cal Factor (Y)	0.961	

Moisture Content Data							
Run Number	7		Run Start Time	9:01		Run Stop Time	10:06
Total Meter Volume	(V _m)	37.697	dcf	Barometric Press.	(P _b)	29.89	in Hg
Avg Meter Temp	(t _m) _{avg}	64	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	324	°F	Avg Orifice Press.	(ΔH) _{avg}	1.28	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	871.70	726.80	612.40	972.10		
Initial Value	(V _i),(W _i)	695.10	697.40	608.70	958.20		
Net Value	(V _n),(W _n)	176.6	29.4	3.7	13.9		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	223.60	g	Water Vol Weighed	(V _{wsg(std)})	10.543	scf
Std Meter Volume	(V _{m(std)})	36.581	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws(calc)})	22.4	%	Final Moisture Content	(B _{ws})	22.4	%

Moisture Content Data							
Run Number	8		Run Start Time	10:25		Run Stop Time	11:30
Total Meter Volume	(V _m)	37.348	dcf	Barometric Press.	(P _b)	29.89	in Hg
Avg Meter Temp	(t _m) _{avg}	69	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	329	°F	Avg Orifice Press.	(ΔH) _{avg}	1.23	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	864.00	698.90	622.40	789.50		
Initial Value	(V _i),(W _i)	695.10	673.60	619.90	778.30		
Net Value	(V _n),(W _n)	168.9	25.3	2.5	11.2		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	207.90	g	Water Vol Weighed	(V _{wsg(std)})	9.802	scf
Std Meter Volume	(V _{m(std)})	35.868	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws})	21.5	%	Final Moisture Content	(B _{ws})	21.5	%

Moisture Content Data							
Run Number	9		Run Start Time	11:40		Run Stop Time	12:53
Total Meter Volume	(V _m)	37.151	dcf	Barometric Press.	(P _b)	29.89	in Hg
Avg Meter Temp	(t _m) _{avg}	73	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	334	°F	Avg Orifice Press.	(ΔH) _{avg}	1.24	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f),(W _f)	868.20	725.40	617.20	917.20		
Initial Value	(V _i),(W _i)	695.00	697.30	612.40	903.20		
Net Value	(V _n),(W _n)	173.2	28.1	4.8	14.0		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	220.10	g	Water Vol Weighed	(V _{wsg(std)})	10.378	scf
Std Meter Volume	(V _{m(std)})	35.445	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws})	22.6	%	Final Moisture Content	(B _{ws})	22.6	%

METHOD 4 - DETERMINATION OF MOISTURE CONTENT IN STACK GASES

Plant Name	GREC				Date	11/16/13	
Sampling Location	Stack				Project #	6132	
Operator	CRH/AH/MS				# of Ports Used	4	
Stack Type	Circular				Meter Box Number	CEMS3MB	
Train Leak Check	☒	PreTest	☒	PostTest	Meter Cal Factor (Y)	0.961	

Moisture Content Data							
Run Number	10		Run Start Time	13:15		Run Stop Time	14:19
Total Meter Volume	(V _m)	39.595	dcf	Barometric Press.	(P _b)	29.89	in Hg
Avg Meter Temp	(t _m) _{avg}	76	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	335	°F	Avg Orifice Press.	(ΔH) _{avg}	1.40	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f), (W _f)	847.30	732.80	611.10	802.00		
Initial Value	(V _i), (W _i)	670.00	692.50	604.90	789.50		
Net Value	(V _n), (W _n)	177.3	40.3	6.2	12.5		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	236.30	g	Water Vol Weighed	(V _{wsg(std)})	11.142	scf
Std Meter Volume	(V _{m(std)})	37.580	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws(calc)})	22.9	%	Final Moisture Content	(B _{ws})	22.9	%

Moisture Content Data							
Run Number	11		Run Start Time	14:39		Run Stop Time	15:45
Total Meter Volume	(V _m)	40.344	dcf	Barometric Press.	(P _b)	29.89	in Hg
Avg Meter Temp	(t _m) _{avg}	79	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	336	°F	Avg Orifice Press.	(ΔH) _{avg}	1.43	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f), (W _f)	884.80	734.10	613.20	932.70		
Initial Value	(V _i), (W _i)	697.70	695.50	607.20	917.20		
Net Value	(V _n), (W _n)	187.1	38.6	6.0	15.5		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	247.20	g	Water Vol Weighed	(V _{wsg(std)})	11.655	scf
Std Meter Volume	(V _{m(std)})	38.086	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws})	23.4	%	Final Moisture Content	(B _{ws})	23.4	%

Moisture Content Data							
Run Number	12		Run Start Time	16:23		Run Stop Time	17:28
Total Meter Volume	(V _m)	39.596	dcf	Barometric Press.	(P _b)	29.89	in Hg
Avg Meter Temp	(t _m) _{avg}	79	°F	Stack Static Press.	(P _{static})	-0.68	in H ₂ O
Avg Stack Temp	(t _s) _{avg}	334	°F	Avg Orifice Press.	(ΔH) _{avg}	1.39	in H ₂ O
	Impinger 1	Impinger 2	Impinger 3	Impinger 4	Impinger 5	Impinger 6	Impinger 7
	g	g	g	g	ml	ml	ml
Contents		H2SO4	H2SO4	Sil Gel			
Final Value	(V _f), (W _f)	860.20	726.90	615.50	786.30		
Initial Value	(V _i), (W _i)	670.80	693.90	611.10	769.20		
Net Value	(V _n), (W _n)	189.4	33.0	4.4	17.1		
Results							
Total Volume	(V _t)	0.00	ml	Water Vol Condensed	(V _{wc(std)})	0.000	scf
Total Weight	(W _t)	243.90	g	Water Vol Weighed	(V _{wsg(std)})	11.500	scf
Std Meter Volume	(V _{m(std)})	37.383	dscf	Sat. Moisture Content	(B _{ws(svp)})	100.0	%
Calc Moisture Content	(B _{ws})	23.5	%	Final Moisture Content	(B _{ws})	23.5	%

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GREC Static Press (in H₂O): _____ Run Number: 1
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: Base CRH
 Date: 11/15/2013 Fin. Leak Rate: _____ 750%

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1		<u>See Sheet</u>		<u>M26A</u>	<u>Δ</u>	<u>Δ</u>	<u>Δ</u>
2							
3							
End		<u>Sheet</u>					

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	<u>694.6</u>	<u>672.0</u>	<u>605.4</u>	<u>753.9</u>
Final Weight	<u>852.7</u>	<u>708.5</u>	<u>608.8</u>	<u>772.1</u>
Weight Gain:	<u>158.1</u>	<u>36.5</u>	<u>3.4</u>	<u>16.2</u>

Total Weight Gain: 214.25

Train Prepared by: C. Horton
 Train Recovered by: C. Horton

21.8% BWS

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GREC Static Press (in H₂O): _____ Run Number: 2
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: 250%
 Date: 11/15/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1							
2							
3							
End							

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	695.5	696.8	608.7	869.8
Final Weight	872.6	723.1	612.7	883.3
Weight Gain:	177.1	26.3	4.0	13.5

Total Weight Gain: 220.9g

Train Prepared by: C. Horton
 Train Recovered by: C. Horton

22.6 g Bgs

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GREC Static Press (in H₂O): _____ Run Number: 3
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: 750%
 Date: 11/15/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1			See	M26A			
2							
3							
End							

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	672.1	693.7	608.8	772.1
Final Weight	851.9	723.1	614.2	786.4
Weight Gain:	179.8	29.4	5.4	14.3

Total Weight Gain: 228.9

Train Prepared by: C. Horton
 Train Recovered by: C. Horton

22.8% Btu

C.E.M. Solutions, Inc.

Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GREC Static Press (in H₂O): _____ Run Number: 4
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: 750%
 Date: 11/15/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1		See		M	26A		Data
2							
3		Sleeve					
End							

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	699.2	691.8	612.7	930.4
Final Weight	909.4	722.1	616.4	947.2
Weight Gain:	210.2	30.3	3.7	16.8

Total Weight Gain: 261.0g

Train Prepared by: C. Horton

Train Recovered by: C. Horton

24.1 % ISm

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GREC Static Press (in H₂O): _____ Run Number: 5
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: 50%
 Date: 11/15/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1		See		M26A			D-2
2							
3		Sled					
End							

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	693.8	672.3	614.2	761.3
Final Weight	889.9	711.8	619.9	778.3
Weight Gain:	196.1	39.5	5.7	17.0

Total Weight Gain: 258.3g

23.88%

Train Prepared by: E. Horton
 Train Recovered by: C. Horton

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GREC Static Press (in H₂O): _____ Run Number: 6
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: 750%
 Date: 11/15/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1			See	M	26A	Dark	Dark
2							
3							
End			Sheet				

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	696.2	692.5	616.4	947.2
Final Weight	877.0	733.0	621.0	958.9
Weight Gain:	180.8	40.5	4.6	11.7

Total Weight Gain: 237.6g

Train Prepared by: C. Horton
 Train Recovered by: C. Horton

22.9% B₂

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GREC Static Press (in H₂O): _____ Run Number: 7
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: 250%
 Date: 11/16/2013 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1		<u>See</u>					
2							
3							
End		<u>Done</u>					

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	<u>695.1</u>	<u>697.4</u>	<u>608.7</u>	<u>958.2</u>
Final Weight	<u>871.7</u>	<u>726.8</u>	<u>612.4</u>	<u>972.1</u>
Weight Gain:	<u>176.6</u>	<u>29.4</u>	<u>3.7</u>	<u>13.9</u>

Total Weight Gain: 223.6g

Train Prepared by: C. Horgan
 Train Recovered by: C. Horgan

22.4 % Bus

C.E.M. Solutions, Inc. Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: 6REC Static Press (in H₂O): _____ Run Number: 8
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 100
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: >50%
 Date: 11/16/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1					<u>N</u>		
2			<u>SEE M2614 DATA</u>				
3							
End							

Averages:

Volume Collected:

0.1N H₂SO₄ 0.1N H₂SO₄

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	<u>695.1g</u> <u>100 mL</u>	<u>673.6g</u> <u>100 mL</u>	<u>619.9</u>	<u>778.3</u>
Final Weight	<u>864.0</u>	<u>698.9</u>	<u>622.4</u>	<u>789.5</u>
Weight Gain:	<u>168.9</u>	<u>25.3</u>	<u>2.5</u>	<u>11.2</u>

Total Weight Gain: 207.9g

Train Prepared by: MS
 Train Recovered by: C. HORTON

21.5 g. Bms

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GREC Static Press (in H₂O): _____ Run Number: 9
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: 750%
 Date: 11/16/2013 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1		Sec Sheet		M26A	Data	Data	Data
2							
3							
End							

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	695.0	697.3	612.4	903.2
Final Weight	868.2	725.4	617.2	917.2
Weight Gain:	173.2	28.1	4.8	14.0

Total Weight Gain: 220.1g

Train Prepared by: C. HORTON
 Train Recovered by: C. HORTON

22.6% Bus

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GR&C Static Press (in H₂O): _____ Run Number: 10
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: 750%
 Date: 11/16/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1		See M26A Stack					
2							
3							
End							

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	670.0	692.5	604.9	789.5
Final Weight	847.3	732.8	611.1	802.0
Weight Gain:	177.3	40.3	6.2	12.5

Total Weight Gain: 236.30

Train Prepared by: C. Horton
 Train Recovered by: C. Horton

22.9 %
BWS

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fagen Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GR&L Static Press (in H₂O): _____ Run Number: 11
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: >50%
 Date: 11/16/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1							
2							
3							
End							

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	697.7	695.5	607.2	917.2
Final Weight	884.8	734.1	613.2	932.7
Weight Gain:	187.1	38.6	6.0	15.5

Total Weight Gain: 247.20

Train Prepared by: C. HORTON
 Train Recovered by: C. HORTON

23.4 %
BWS

C.E.M. Solutions, Inc.
Method 4 Field Data Sheet

Company: Fager Bar. Press (in Hg): _____ Meter Y_i: _____
 Facility: GRFC Static Press (in H₂O): _____ Run Number: 12
 Unit No.: 1 Meter Box Number: _____ Run Duration (min): 60
 Sample Location: Stack Ini. Leak Rate: _____ Load Level: >50%
 Date: 11/16/13 Fin. Leak Rate: _____

Point	Clock Time	Sample Time	Meter Volume (ft ³)	Meter Orifice Pressure (ΔH)	Meter Outlet Temperature (°F)	Meter Vacuum (in Hg)	Impinger Outlet Temperature (°F)
1							
2							
3							
End							

Averages:

Volume Collected:

Weights	Impinger 1	Impinger 2	Impinger 3	Impinger 4
Initial Weight	670.8	693.9	611.1	769.2
Final Weight	860.2	726.9	615.5	786.3
Weight Gain:	189.4	33.0	4.4	17.1

Total Weight Gain: 243.9

Train Prepared by: C. Horton
 Train Recovered by: C. Horton

23.5%
B₂S

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

M3A

Date:11/15/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.07 %	0.05 %	0.06
10.03 percent O ₂	9.92 %	9.95 %	9.93
0.00 percent CO ₂	0.15 %	-0.01 %	0.07
19.07 percent CO ₂	18.80 %	18.71 %	18.76
Mean Reference Values:	Corrected Results:	Basis:	
3.40 percent O ₂	3.40 percent O ₂	DRY	
16.74 percent CO ₂	17.00 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

M3A

Date:11/15/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.05 %	-0.05 %	0.00
10.03 percent O ₂	9.95 %	9.87 %	9.91
0.00 percent CO ₂	-0.01 %	-0.12 %	-0.06
19.07 percent CO ₂	18.71 %	18.84 %	18.78
Mean Reference Values:	Corrected Results:	Basis:	
3.32 percent O ₂	3.40 percent O ₂	DRY	
16.78 percent CO ₂	17.10 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
M3A
Date:11/15/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	-0.05 %	0.00 %	-0.02
10.03 percent O ₂	9.87 %	9.92 %	9.90
0.00 percent CO ₂	-0.12 %	0.05 %	-0.03
19.07 percent CO ₂	18.84 %	18.79 %	18.82
Mean Reference Values:	Corrected Results:	Basis:	
3.31 percent O ₂	3.40 percent O ₂	DRY	
16.83 percent CO ₂	17.10 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
M3A
Date:11/15/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 4

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.00 %	0.00 %	0.00
10.03 percent O ₂	9.92 %	9.89 %	9.90
0.00 percent CO ₂	0.05 %	-0.01 %	0.02
19.07 percent CO ₂	18.79 %	18.69 %	18.74
Mean Reference Values:	Corrected Results:	Basis:	
3.42 percent O ₂	3.50 percent O ₂	DRY	
16.73 percent CO ₂	17.00 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

M3A

Date:11/15/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 5

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.00 %	0.02 %	0.01
10.03 percent O ₂	9.89 %	9.96 %	9.92
0.00 percent CO ₂	-0.01 %	-0.07 %	-0.04
19.07 percent CO ₂	18.69 %	18.69 %	18.69
Mean Reference Values:	Corrected Results:	Basis:	
3.48 percent O ₂	3.50 percent O ₂	DRY	
16.68 percent CO ₂	17.00 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
M3A
Date:11/15/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 6

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.02 %	0.02 %	0.02
10.03 percent O ₂	9.96 %	9.91 %	9.93
0.00 percent CO ₂	-0.07 %	0.00 %	-0.03
19.07 percent CO ₂	18.69 %	Not Measured	18.69
Mean Reference Values:	Corrected Results:	Basis:	
3.34 percent O ₂	3.40 percent O ₂	DRY	
16.76 percent CO ₂	17.10 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

M3A

Date:11/16/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.04 %	0.05 %	0.05
10.03 percent O ₂	9.91 %	9.89 %	9.90
0.00 percent CO ₂	0.37 %	0.05 %	0.21
19.07 percent CO ₂	19.11 %	18.78 %	18.95
Mean Reference Values:	Corrected Results:	Basis:	
3.36 percent O ₂	3.40 percent O ₂	DRY	
16.97 percent CO ₂	17.10 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
M3A
Date:11/16/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.05 %	0.06 %	0.05
10.03 percent O ₂	9.89 %	9.95 %	9.92
0.00 percent CO ₂	0.05 %	0.16 %	0.11
19.07 percent CO ₂	18.78 %	18.77 %	18.77
Mean Reference Values:	Corrected Results:	Basis:	
3.40 percent O ₂	3.40 percent O ₂	DRY	
16.83 percent CO ₂	17.10 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

M3A

Date:11/16/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.06 %	-0.04 %	0.01
10.03 percent O ₂	9.95 %	9.84 %	9.90
0.00 percent CO ₂	0.16 %	0.09 %	0.13
19.07 percent CO ₂	18.77 %	19.02 %	18.89
Mean Reference Values:	Corrected Results:	Basis:	
3.24 percent O ₂	3.30 percent O ₂	DRY	
16.98 percent CO ₂	17.10 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

M3A

Date:11/16/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 4

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	-0.04 %	0.05 %	0.01
10.03 percent O ₂	9.84 %	9.93 %	9.89
0.00 percent CO ₂	0.09 %	0.25 %	0.17
19.07 percent CO ₂	19.02 %	18.97 %	19.00
Mean Reference Values:	Corrected Results:	Basis:	
3.17 percent O ₂	3.20 percent O ₂	DRY	
17.04 percent CO ₂	17.10 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:

FAGEN

GREC

BFB Boiler (002)

M3A

Date:11/16/13

Test Performed By:

C.E.M. Solutions, Inc.

1183 East Overdrive Circle

Hernando, FL 34442

(352) 489-4337

Run 5

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.05 %	0.01 %	0.03
10.03 percent O ₂	9.93 %	9.92 %	9.92
0.00 percent CO ₂	0.25 %	0.00 %	0.12
19.07 percent CO ₂	18.97 %	18.85 %	18.91
Mean Reference Values:	Corrected Results:	Basis:	
3.24 percent O ₂	3.20 percent O ₂	DRY	
16.95 percent CO ₂	17.10 percent CO ₂	DRY	

Calculation of Average Emissions

Test Performed For:
FAGEN
GREC
BFB Boiler (002)
M3A
Date:11/16/13

Test Performed By:
C.E.M. Solutions, Inc.
1183 East Overdrive Circle
Hernando, FL 34442
(352) 489-4337
Run 6

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O ₂	0.01 %	-0.02 %	-0.01
10.03 percent O ₂	9.92 %	9.89 %	9.91
0.00 percent CO ₂	0.00 %	0.03 %	0.02
19.07 percent CO ₂	18.85 %	Not Measured	18.85
Mean Reference Values:	Corrected Results:	Basis:	
3.08 percent O ₂	3.10 percent O ₂	DRY	
17.24 percent CO ₂	17.40 percent CO ₂	DRY	

Raw 3A Data
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name	O2		CO2								
sn	1009241630		1009241630								
offset	0		0								
fullscale	100		20								
train	1		1								
gastype	o2 3a		co2 3a								
scg5	11/15/2013	7:49:30	9.88	9.15	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/15/2013	7:49:45	9.94	9.64	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/15/2013	7:50:00	9.96	9.70	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/15/2013	7:50:15	9.96	9.73	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/15/2013	7:50:30	9.96	9.76	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/15/2013	7:50:45	10.00	9.77	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg5	11/15/2013	7:51:00	9.92	9.79	CC427756/cg5	O2	10.03	CO2	9.624	0	0
o2span1	11/15/2013	7:51:00	9.92	9.79	CC427756/cg5	O2	10.03	CO2	9.624	0	0
scg6	11/15/2013	7:51:15	9.96	9.76	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:51:30	9.96	9.77	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:51:45	9.95	9.79	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:52:00	9.97	9.80	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:52:15	13.85	9.90	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:52:30	19.97	13.72	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:52:45	20.19	17.40	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:53:00	20.20	18.36	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:53:15	20.22	18.73	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:53:30	20.21	18.83	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/15/2013	7:53:45	20.19	18.80	CC365323/cg6	O2	20.37	CO2	19.07	0	0
co2span1	11/15/2013	7:53:45	20.19	18.80	CC365323/cg6	O2	20.37	CO2	19.07	0	0
run1	11/15/2013	9:05:00	3.27	17.11							
run1	11/15/2013	9:05:15	3.36	17.03							
run1	11/15/2013	9:05:30	3.42	16.97							
run1	11/15/2013	9:05:45	3.52	16.92							
run1	11/15/2013	9:06:00	3.70	16.82							
run1	11/15/2013	9:06:15	3.60	16.67							
run1	11/15/2013	9:06:30	3.54	16.70							
run1	11/15/2013	9:06:45	3.51	16.78							
run1	11/15/2013	9:07:00	3.53	16.83							
run1	11/15/2013	9:07:15	3.43	16.83							
run1	11/15/2013	9:07:30	3.34	16.88							
run1	11/15/2013	9:07:45	3.36	16.94							
run1	11/15/2013	9:08:00	3.38	16.99							
run1	11/15/2013	9:08:15	3.50	16.98							
run1	11/15/2013	9:08:30	3.60	16.85							
run1	11/15/2013	9:08:45	3.73	16.69							
run1	11/15/2013	9:09:00	3.68	16.61							
run1	11/15/2013	9:09:15	3.51	16.68							
run1	11/15/2013	9:09:30	3.46	16.83							
run1	11/15/2013	9:09:45	3.51	16.85							
run1	11/15/2013	9:10:00	3.50	16.77							
run1	11/15/2013	9:10:15	3.45	16.79							
run1	11/15/2013	9:10:30	3.48	16.86							
run1	11/15/2013	9:10:45	3.56	16.86							
run1	11/15/2013	9:11:00	3.61	16.78							
run1	11/15/2013	9:11:15	3.57	16.71							
run1	11/15/2013	9:11:30	3.55	16.73							
run1	11/15/2013	9:11:45	3.49	16.79							
run1	11/15/2013	9:12:00	3.21	16.91							
run1	11/15/2013	9:12:15	3.09	17.06							
run1	11/15/2013	9:12:30	3.02	17.18							
run1	11/15/2013	9:12:45	2.91	17.28							
run1	11/15/2013	9:13:00	2.80	17.43							
run1	11/15/2013	9:13:15	2.94	17.50							
run1	11/15/2013	9:13:30	3.12	17.31							
run1	11/15/2013	9:13:45	3.16	17.13							
run1	11/15/2013	9:14:00	3.17	17.15							
run1	11/15/2013	9:14:15	3.25	17.14							
run1	11/15/2013	9:14:30	3.39	17.05							
run1	11/15/2013	9:14:45	3.32	16.91							
run1	11/15/2013	9:15:00	3.24	16.93							
run1	11/15/2013	9:15:15	3.16	17.06							
run1	11/15/2013	9:15:30	3.17	17.15							
run1	11/15/2013	9:15:45	3.34	17.08							
run1	11/15/2013	9:16:00	3.30	16.94							
run1	11/15/2013	9:16:15	3.23	16.95							
run1	11/15/2013	9:16:30	3.20	17.05							
run1	11/15/2013	9:16:45	3.28	17.07							
run1	11/15/2013	9:17:00	3.27	17.01							
run1	11/15/2013	9:17:15	3.31	16.93							
run1	11/15/2013	9:17:30	3.26	16.94							
run1	11/15/2013	9:17:45	3.16	17.03							
run1	11/15/2013	9:18:00	3.19	17.09							
run1	11/15/2013	9:18:15	3.31	17.05							
run1	11/15/2013	9:18:30	3.45	16.92							
run1	11/15/2013	9:18:45	3.71	16.79							
run1	11/15/2013	9:19:00	3.71	16.61							
run1	11/15/2013	9:19:15	3.52	16.61							
run1	11/15/2013	9:19:30	3.45	16.71							
run1	11/15/2013	9:19:45	14.37	15.85							
run1	11/15/2013	9:20:00	20.53	5.92							
run1	11/15/2013	9:20:15	20.68	1.22							
run1	11/15/2013	9:20:30	20.68	0.28							
run1	11/15/2013	9:20:45	20.71	0.16							
run1	11/15/2013	9:21:00	20.75	0.12							
run1	11/15/2013	9:21:15	20.72	0.11							
run1	11/15/2013	9:21:30	20.73	0.10							
run1	11/15/2013	9:21:45	19.61	0.09							
run1	11/15/2013	9:22:00	5.15	3.92							
run1	11/15/2013	9:22:15	3.28	13.59							
run1	11/15/2013	9:22:30	3.22	16.40							
run1	11/15/2013	9:22:45	3.34	16.90							
run1	11/15/2013	9:23:00	3.41	16.87							
run1	11/15/2013	9:23:15	3.47	16.76							

name		O2	CO2	
sn		1009241630	1009241630	
offset		0	0	
fullscale		100	20	
train		1	1	
gastype		o2 3a	co2 3a	
run1	11/15/2013	9:23:30	3.42	16.75
run1	11/15/2013	9:23:45	3.43	16.79
run1	11/15/2013	9:24:00	3.45	16.80
run1	11/15/2013	9:24:15	3.42	16.77
run1	11/15/2013	9:24:30	3.27	16.79
run1	11/15/2013	9:24:45	3.27	16.91
run1	11/15/2013	9:25:00	3.30	16.95
run1	11/15/2013	9:25:15	3.34	16.94
run1	11/15/2013	9:25:30	3.40	16.86
run1	11/15/2013	9:25:45	3.27	16.79
run1	11/15/2013	9:26:00	3.31	16.88
run1	11/15/2013	9:26:15	3.31	16.91
run1	11/15/2013	9:26:30	3.37	16.92
run1	11/15/2013	9:26:45	3.48	16.84
run1	11/15/2013	9:27:00	3.50	16.69
run1	11/15/2013	9:27:15	3.41	16.73
run1	11/15/2013	9:27:30	3.30	16.81
run1	11/15/2013	9:27:45	3.32	16.90
run1	11/15/2013	9:28:00	3.31	16.89
run1	11/15/2013	9:28:15	3.33	16.84
run1	11/15/2013	9:28:30	3.33	16.86
run1	11/15/2013	9:28:45	3.27	16.90
run1	11/15/2013	9:29:00	3.18	16.97
run1	11/15/2013	9:29:15	3.19	16.97
run1	11/15/2013	9:29:30	3.18	16.95
run1	11/15/2013	9:29:45	3.16	16.99
run1	11/15/2013	9:30:00	3.09	17.06
run1	11/15/2013	9:30:15	3.13	17.12
run1	11/15/2013	9:30:30	3.23	17.05
run1	11/15/2013	9:30:45	3.28	16.93
run1	11/15/2013	9:31:00	3.27	16.90
run1	11/15/2013	9:31:15	3.19	16.97
run1	11/15/2013	9:31:30	3.18	17.01
run1	11/15/2013	9:31:45	3.14	16.98
run1	11/15/2013	9:32:00	3.25	16.97
run1	11/15/2013	9:32:15	3.40	16.91
run1	11/15/2013	9:32:30	3.31	16.83
run1	11/15/2013	9:32:45	3.20	16.90
run1	11/15/2013	9:33:00	3.32	16.93
run1	11/15/2013	9:33:15	3.38	16.82
run1	11/15/2013	9:33:30	3.38	16.81
run1	11/15/2013	9:33:45	3.62	16.78
run1	11/15/2013	9:34:00	3.71	16.61
run1	11/15/2013	9:34:15	3.81	16.46
run1	11/15/2013	9:34:30	3.79	16.38
run1	11/15/2013	9:34:45	3.76	16.42
run1	11/15/2013	9:35:00	3.61	16.48
run1	11/15/2013	9:35:15	3.50	16.61
run1	11/15/2013	9:35:30	3.61	16.65
run1	11/15/2013	9:35:45	3.56	16.57
run1	11/15/2013	9:36:00	3.58	16.62
run1	11/15/2013	9:36:15	3.49	16.66
run1	11/15/2013	9:36:30	3.42	16.71
run1	11/15/2013	9:36:45	3.46	16.76
run1	11/15/2013	9:37:00	3.45	16.69
run1	11/15/2013	9:37:15	3.29	16.73
run1	11/15/2013	9:37:30	3.23	16.89
run1	11/15/2013	9:37:45	3.27	16.94
run1	11/15/2013	9:38:00	3.21	16.92
run1	11/15/2013	9:38:15	3.09	16.95
run1	11/15/2013	9:38:30	3.16	17.04
run1	11/15/2013	9:38:45	3.21	17.03
run1	11/15/2013	9:39:00	3.22	17.00
run1	11/15/2013	9:39:15	3.37	16.97
run1	11/15/2013	9:39:30	3.47	16.78
run1	11/15/2013	9:39:45	3.48	16.72
run1	11/15/2013	9:40:00	3.33	16.76
run1	11/15/2013	9:40:15	3.34	16.84
run1	11/15/2013	9:40:30	3.34	16.83
run1	11/15/2013	9:40:45	3.35	16.80
run1	11/15/2013	9:41:00	3.47	16.82
run1	11/15/2013	9:41:15	3.55	16.75
run1	11/15/2013	9:41:30	3.55	16.69
run1	11/15/2013	9:41:45	3.67	16.64
run1	11/15/2013	9:42:00	3.72	16.51
run1	11/15/2013	9:42:15	3.81	16.48
run1	11/15/2013	9:42:30	3.82	16.43
run1	11/15/2013	9:42:45	3.94	16.38
run1	11/15/2013	9:43:00	3.88	16.25
run1	11/15/2013	9:43:15	3.65	16.31
run1	11/15/2013	9:43:30	3.61	16.53
run1	11/15/2013	9:43:45	3.65	16.58
run1	11/15/2013	9:44:00	3.74	16.55
run1	11/15/2013	9:44:15	3.78	16.44
run1	11/15/2013	9:44:30	3.67	16.40
run1	11/15/2013	9:44:45	3.57	16.53
run1	11/15/2013	9:45:00	3.49	16.63
run1	11/15/2013	9:45:15	3.21	16.74
run1	11/15/2013	9:45:30	3.07	16.92
run1	11/15/2013	9:45:45	3.10	17.05
run1	11/15/2013	9:46:00	3.18	17.09
run1	11/15/2013	9:46:15	3.26	17.00
run1	11/15/2013	9:46:30	3.29	16.92
run1	11/15/2013	9:46:45	3.35	16.83

name		O2	CO2	
sn		1009241630	1009241630	
offset		0	0	
fullscale		100	20	
train		1	1	
gastype		o2 3a	co2 3a	
run1	11/15/2013	9:47:00	3.42	16.79
run1	11/15/2013	9:47:15	3.30	16.79
run1	11/15/2013	9:47:30	3.26	16.89
run1	11/15/2013	9:47:45	3.39	16.91
run1	11/15/2013	9:48:00	3.38	16.77
run1	11/15/2013	9:48:15	3.17	16.82
run1	11/15/2013	9:48:30	3.30	16.95
run1	11/15/2013	9:48:45	3.54	16.85
run1	11/15/2013	9:49:00	3.51	16.67
run1	11/15/2013	9:49:15	3.44	16.65
run1	11/15/2013	9:49:30	3.34	16.73
run1	11/15/2013	9:49:45	3.36	16.82
run1	11/15/2013	9:50:00	3.54	16.81
run1	11/15/2013	9:50:15	3.61	16.66
run1	11/15/2013	9:50:30	3.52	16.56
run1	11/15/2013	9:50:45	3.32	16.68
run1	11/15/2013	9:51:00	3.21	16.86
run1	11/15/2013	9:51:15	3.19	16.96
run1	11/15/2013	9:51:30	3.27	16.95
run1	11/15/2013	9:51:45	3.42	16.83
run1	11/15/2013	9:52:00	3.33	16.77
run1	11/15/2013	9:52:15	3.23	16.87
run1	11/15/2013	9:52:30	3.18	16.95
run1	11/15/2013	9:52:45	3.36	16.91
run1	11/15/2013	9:53:00	3.33	16.81
run1	11/15/2013	9:53:15	3.22	16.84
run1	11/15/2013	9:53:30	3.23	16.92
run1	11/15/2013	9:53:45	3.41	16.91
run1	11/15/2013	9:54:00	3.37	16.73
run1	11/15/2013	9:54:15	3.25	16.78
run1	11/15/2013	9:54:30	3.36	16.89
run1	11/15/2013	9:54:45	3.42	16.83
run1	11/15/2013	9:55:00	3.36	16.75
run1	11/15/2013	9:55:15	3.37	16.75
run1	11/15/2013	9:55:30	3.40	16.76
run1	11/15/2013	9:55:45	3.38	16.75
run1	11/15/2013	9:56:00	3.30	16.81
run1	11/15/2013	9:56:15	3.35	16.84
run1	11/15/2013	9:56:30	3.37	16.77
run1	11/15/2013	9:56:45	3.38	16.76
run1	11/15/2013	9:57:00	3.51	16.76
run1	11/15/2013	9:57:15	3.41	16.72
run1	11/15/2013	9:57:30	3.31	16.76
run1	11/15/2013	9:57:45	3.49	16.75
run1	11/15/2013	9:58:00	3.38	16.67
run1	11/15/2013	9:58:15	3.31	16.76
run1	11/15/2013	9:58:30	3.48	16.82
run1	11/15/2013	9:58:45	3.45	16.68
run1	11/15/2013	9:59:00	3.21	16.71
run1	11/15/2013	9:59:15	3.16	16.90
run1	11/15/2013	9:59:30	3.19	16.98
run1	11/15/2013	9:59:45	3.23	16.95
run1	11/15/2013	10:00:00	3.23	16.92
run1	11/15/2013	10:00:15	3.27	16.86
run1	11/15/2013	10:00:30	3.32	16.85
run1	11/15/2013	10:00:45	3.36	16.83
run1	11/15/2013	10:01:00	3.20	16.84
run1	11/15/2013	10:01:15	3.19	16.90
run1	11/15/2013	10:01:30	3.23	16.89
run1	11/15/2013	10:01:45	3.36	16.86
run1	11/15/2013	10:02:00	3.43	16.78
run1	11/15/2013	10:02:15	3.28	16.78
run1	11/15/2013	10:02:30	3.38	16.81
run1	11/15/2013	10:02:45	3.45	16.73
run1	11/15/2013	10:03:00	3.34	16.70
run1	11/15/2013	10:03:15	3.27	16.80
run1	11/15/2013	10:03:30	3.33	16.86
run1	11/15/2013	10:03:45	3.50	16.79
run1	11/15/2013	10:04:00	3.67	16.59
run1	11/15/2013	10:04:15	3.86	16.46
run1	11/15/2013	10:04:30	3.86	16.32
run1	11/15/2013	10:04:45	3.73	16.35
run1	11/15/2013	10:05:00	3.61	16.43
run1	11/15/2013	10:05:15	3.52	16.50
run1	11/15/2013	10:05:30	3.54	16.59
run1	11/15/2013	10:05:45	3.61	16.61
run1	11/15/2013	10:06:00	3.38	16.62
run1	11/15/2013	10:06:15	3.21	16.73
run1	11/15/2013	10:06:30	3.34	16.86
run1	11/15/2013	10:06:45	3.62	16.76
run1	11/15/2013	10:07:00	3.55	16.60
run1	11/15/2013	10:07:15	3.52	16.61
run1	11/15/2013	10:07:30	3.48	16.57
run1	11/15/2013	10:07:45	3.39	16.64
run1	11/15/2013	10:08:00	3.38	16.75
run1	11/15/2013	10:08:15	3.37	16.77
run1	11/15/2013	10:08:30	3.35	16.80
run1	11/15/2013	10:08:45	3.54	16.73
run1	11/15/2013	10:09:00	3.44	16.63
run1	11/15/2013	10:09:15	3.28	16.74
run1	11/15/2013	10:09:30	3.20	16.87
run1	11/15/2013	10:09:45	3.29	16.93
run1	11/15/2013	10:10:00	3.44	16.80
run1	11/15/2013	10:10:15	3.30	16.72

name	O2	CO2
sn	1009241630	1009241630
offset	0	0
fullscale	100	20
train	1	1
gastype	o2 3a	co2 3a
run1	11/15/2013 10:10:30	3.26 16.82
run1	11/15/2013 10:10:45	3.26 16.89
run1	11/15/2013 10:11:00	3.20 16.93
run1	11/15/2013 10:11:15	3.25 16.89
run1	11/15/2013 10:11:30	3.24 16.87
run1	11/15/2013 10:11:45	3.29 16.90
run1	11/15/2013 10:12:00	3.59 16.83
run1	11/15/2013 10:12:15	3.61 16.63
run1	11/15/2013 10:12:30	3.50 16.56
run1	11/15/2013 10:12:45	3.33 16.64
run1	11/15/2013 10:13:00	3.23 16.81
run1	11/15/2013 10:13:15	3.38 16.90
run1	11/15/2013 10:13:30	3.58 16.77
run1	11/15/2013 10:13:45	3.48 16.58
run1	11/15/2013 10:14:00	3.24 16.67
run1	11/15/2013 10:14:15	3.21 16.89
run1	11/15/2013 10:14:30	3.38 16.93
run1	11/15/2013 10:14:45	3.45 16.79
run1	11/15/2013 10:15:00	3.41 16.69
run1	11/15/2013 10:15:15	3.37 16.73
run1	11/15/2013 10:15:30	3.31 16.81
run1	11/15/2013 10:15:45	3.26 16.86
run1	11/15/2013 10:16:00	3.33 16.85
run1	11/15/2013 10:16:15	3.19 16.80
run1	11/15/2013 10:16:30	3.07 16.96
run1	11/15/2013 10:16:45	3.02 17.12
run1	11/15/2013 10:17:00	3.19 17.11
run1	11/15/2013 10:17:15	3.16 16.97
run1	11/15/2013 10:17:30	3.13 16.98
run1	11/15/2013 10:17:45	3.24 17.01
run1	11/15/2013 10:18:00	3.38 16.91
run1	11/15/2013 10:18:15	3.40 16.79
run1	11/15/2013 10:18:30	3.44 16.72
run1	11/15/2013 10:18:45	3.39 16.67
run1	11/15/2013 10:19:00	3.30 16.76
run1	11/15/2013 10:19:15	3.19 16.88
run1	11/15/2013 10:19:30	3.30 16.94
run1	11/15/2013 10:19:45	3.32 16.84
run1	11/15/2013 10:20:00	3.46 16.74
run1	11/15/2013 10:20:15	3.38 16.70
run1	11/15/2013 10:20:30	3.32 16.76
run1	11/15/2013 10:20:45	3.32 16.79
run1	11/15/2013 10:21:00	3.24 16.80
run1	11/15/2013 10:21:15	3.35 16.82
run1	11/15/2013 10:21:30	3.51 16.77
run1	11/15/2013 10:21:45	3.65 16.68
run1	11/15/2013 10:22:00	3.73 16.54
run1	11/15/2013 10:22:15	3.81 16.42
run1	11/15/2013 10:22:30	3.65 16.36
run1	11/15/2013 10:22:45	3.38 16.51
run1	11/15/2013 10:23:00	3.31 16.74
run1	11/15/2013 10:23:15	3.38 16.80
run1	11/15/2013 10:23:30	3.35 16.77
run1	11/15/2013 10:23:45	3.36 16.73
run1	11/15/2013 10:24:00	3.43 16.70
run1	11/15/2013 10:24:15	3.28 16.75
run1	11/15/2013 10:24:30	3.42 16.83
run1	11/15/2013 10:24:45	3.54 16.71
run1	11/15/2013 10:25:00	3.50 16.59
run1	11/15/2013 10:25:15	3.37 16.64
run1	11/15/2013 10:25:30	3.15 16.81
run1	11/15/2013 10:25:45	3.19 16.97
run1	11/15/2013 10:26:00	3.32 16.90
run1	11/15/2013 10:26:15	3.49 16.77
run1	11/15/2013 10:26:30	3.53 16.65
run1	11/15/2013 10:26:45	3.48 16.62
run1	11/15/2013 10:27:00	3.56 16.62
run1	11/15/2013 10:27:15	3.55 16.53
run1	11/15/2013 10:27:30	3.57 16.56
run1	11/15/2013 10:27:45	3.39 16.61
run1	11/15/2013 10:28:00	3.49 16.70
run1	11/15/2013 10:28:15	3.55 16.64
run1	11/15/2013 10:28:30	3.57 16.53
run1	11/15/2013 10:28:45	3.61 16.55
run1	11/15/2013 10:29:00	3.89 16.50
run1	11/15/2013 10:29:15	3.88 16.31
run1	11/15/2013 10:29:30	3.66 16.31
run1	11/15/2013 10:29:45	3.45 16.46
run1	11/15/2013 10:30:00	3.46 16.59
run1	11/15/2013 10:30:15	3.44 16.65
run1	11/15/2013 10:30:30	3.52 16.66
run1	11/15/2013 10:30:45	3.61 16.61
run1	11/15/2013 10:31:00	3.63 16.49
run1	11/15/2013 10:31:15	3.46 16.51
run1	11/15/2013 10:31:30	3.29 16.68
run1	11/15/2013 10:31:45	3.24 16.81
run1	11/15/2013 10:32:00	3.28 16.84
run1	11/15/2013 10:32:15	3.29 16.77
run1	11/15/2013 10:32:30	3.24 16.80
run1	11/15/2013 10:32:45	3.25 16.87
run1	11/15/2013 10:33:00	3.38 16.85
run1	11/15/2013 10:33:15	3.45 16.75
run1	11/15/2013 10:33:30	3.61 16.61
run1	11/15/2013 10:33:45	3.70 16.50

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run1	11/15/2013	10:34:00	3.56	16.48
run1	11/15/2013	10:34:15	3.46	16.57
run1	11/15/2013	10:34:30	3.47	16.61
run1	11/15/2013	10:34:45	3.32	16.61
run1	11/15/2013	10:35:00	3.22	16.78
run1	11/15/2013	10:35:15	3.25	16.89
run1	11/15/2013	10:35:30	3.39	16.84
run1	11/15/2013	10:35:45	3.46	16.69
run1	11/15/2013	10:36:00	3.44	16.65
run1	11/15/2013	10:36:15	3.50	16.68
run1	11/15/2013	10:36:30	3.58	16.62
run1	11/15/2013	10:36:45	3.62	16.57
run1	11/15/2013	10:37:00	3.49	16.51
run1	11/15/2013	10:37:15	3.24	16.60
run1	11/15/2013	10:37:30	3.11	16.85
run1	11/15/2013	10:37:45	3.03	17.03
run1	11/15/2013	10:38:00	3.00	17.09
run1	11/15/2013	10:38:15	3.01	17.10
run1	11/15/2013	10:38:30	3.23	17.05
run1	11/15/2013	10:38:45	3.27	16.90
run1	11/15/2013	10:39:00	3.33	16.87
run1	11/15/2013	10:39:15	3.29	16.81
run1	11/15/2013	10:39:30	3.24	16.77
run1	11/15/2013	10:39:45	3.30	16.84
run1	11/15/2013	10:40:00	3.23	16.85
run1	11/15/2013	10:40:15	3.31	16.88
run1	11/15/2013	10:40:30	3.37	16.79
run1	11/15/2013	10:40:45	3.18	16.77
run1	11/15/2013	10:41:00	3.25	16.89
run1	11/15/2013	10:41:15	3.36	16.86
run1	11/15/2013	10:41:30	3.37	16.81
run1	11/15/2013	10:41:45	3.39	16.74
run1	11/15/2013	10:42:00	3.27	16.73
run1	11/15/2013	10:42:15	3.30	16.82
run1	11/15/2013	10:42:30	3.46	16.81
run1	11/15/2013	10:42:45	3.30	16.74
run1	11/15/2013	10:43:00	3.24	16.82
run1	11/15/2013	10:43:15	3.31	16.81
run1	11/15/2013	10:43:30	3.27	16.82
run1	11/15/2013	10:43:45	3.40	16.85
run1	11/15/2013	10:44:00	3.77	16.71
run1	11/15/2013	10:44:15	3.90	16.42
run1	11/15/2013	10:44:30	3.84	16.24
run1	11/15/2013	10:44:45	3.77	16.30
run1	11/15/2013	10:45:00	3.65	16.41
run1	11/15/2013	10:45:15	3.64	16.51
run1	11/15/2013	10:45:30	3.72	16.47
run1	11/15/2013	10:45:45	3.86	16.36
run1	11/15/2013	10:46:00	3.80	16.32
run1	11/15/2013	10:46:15	3.91	16.34
run1	11/15/2013	10:46:30	3.89	16.25
run1	11/15/2013	10:46:45	3.73	16.25
run1	11/15/2013	10:47:00	3.63	16.40
averun1	11/15/2013	9:39:00	3.40	16.74
scg6	11/15/2013	10:47:15	3.57	16.53
scg6	11/15/2013	10:47:30	3.44	16.61
scg6	11/15/2013	10:47:45	3.57	16.65
scg6	11/15/2013	10:48:00	16.59	16.09
scg6	11/15/2013	10:48:15	20.10	15.45
scg6	11/15/2013	10:48:30	20.19	17.22
scg6	11/15/2013	10:48:45	20.19	18.13
scg6	11/15/2013	10:49:00	20.20	18.54
scg6	11/15/2013	10:49:15	19.97	18.59
scg6	11/15/2013	10:49:30	20.19	18.71
co2span1	11/15/2013	10:49:30	20.19	18.71
scg5	11/15/2013	10:49:45	20.22	18.72
scg5	11/15/2013	10:50:00	20.21	18.71
scg5	11/15/2013	10:50:15	20.22	18.67
scg5	11/15/2013	10:50:30	20.17	18.69
scg5	11/15/2013	10:50:45	12.76	17.79
scg5	11/15/2013	10:51:00	9.96	11.95
scg5	11/15/2013	10:51:15	10.01	9.58
scg5	11/15/2013	10:51:30	10.00	9.62
scg5	11/15/2013	10:51:45	10.00	9.68
scg5	11/15/2013	10:52:00	9.99	9.69
scg5	11/15/2013	10:52:15	9.95	9.69
o2span1	11/15/2013	10:52:15	9.95	9.69
scg1	11/15/2013	10:52:30	10.00	9.68
scg1	11/15/2013	10:52:45	9.98	9.65
scg1	11/15/2013	10:53:00	9.97	9.66
scg1	11/15/2013	10:53:15	9.98	9.67
scg1	11/15/2013	10:53:30	4.91	9.02
scg1	11/15/2013	10:53:45	0.22	4.43
scg1	11/15/2013	10:54:00	0.12	0.77
scg1	11/15/2013	10:54:15	0.08	0.13
scg1	11/15/2013	10:54:30	0.07	0.04
scg1	11/15/2013	10:54:45	0.05	0.01
scg1	11/15/2013	10:55:00	0.05	-0.01
scg1	11/15/2013	10:55:15	0.05	-0.03
co2zero1	11/15/2013	10:55:00	0.05	-0.01
o2zero1	11/15/2013	10:55:00	0.05	-0.01
run2	11/15/2013	11:08:00	3.31	16.70
run2	11/15/2013	11:08:15	3.33	16.71
run2	11/15/2013	11:08:30	3.56	16.70

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run2	11/15/2013	11:08:45	3.81	16.52
run2	11/15/2013	11:09:00	3.82	16.33
run2	11/15/2013	11:09:15	3.57	16.34
run2	11/15/2013	11:09:30	3.47	16.48
run2	11/15/2013	11:09:45	3.42	16.61
run2	11/15/2013	11:10:00	3.49	16.67
run2	11/15/2013	11:10:15	3.55	16.60
run2	11/15/2013	11:10:30	3.38	16.55
run2	11/15/2013	11:10:45	3.25	16.68
run2	11/15/2013	11:11:00	3.23	16.81
run2	11/15/2013	11:11:15	3.25	16.84
run2	11/15/2013	11:11:30	3.21	16.86
run2	11/15/2013	11:11:45	3.25	16.81
run2	11/15/2013	11:12:00	3.20	16.81
run2	11/15/2013	11:12:15	3.30	16.85
run2	11/15/2013	11:12:30	3.35	16.82
run2	11/15/2013	11:12:45	3.33	16.74
run2	11/15/2013	11:13:00	3.20	16.71
run2	11/15/2013	11:13:15	3.25	16.82
run2	11/15/2013	11:13:30	3.16	16.87
run2	11/15/2013	11:13:45	3.01	16.93
run2	11/15/2013	11:14:00	3.14	16.96
run2	11/15/2013	11:14:15	3.12	16.91
run2	11/15/2013	11:14:30	3.11	16.97
run2	11/15/2013	11:14:45	3.09	16.99
run2	11/15/2013	11:15:00	3.12	17.02
run2	11/15/2013	11:15:15	3.31	16.97
run2	11/15/2013	11:15:30	3.63	16.70
run2	11/15/2013	11:15:45	3.64	16.50
run2	11/15/2013	11:16:00	3.37	16.54
run2	11/15/2013	11:16:15	3.30	16.71
run2	11/15/2013	11:16:30	3.39	16.74
run2	11/15/2013	11:16:45	3.54	16.62
run2	11/15/2013	11:17:00	3.40	16.58
run2	11/15/2013	11:17:15	3.30	16.70
run2	11/15/2013	11:17:30	3.25	16.80
run2	11/15/2013	11:17:45	3.17	16.83
run2	11/15/2013	11:18:00	3.17	16.86
run2	11/15/2013	11:18:15	3.18	16.91
run2	11/15/2013	11:18:30	3.19	16.90
run2	11/15/2013	11:18:45	3.21	16.89
run2	11/15/2013	11:19:00	3.21	16.82
run2	11/15/2013	11:19:15	3.11	16.87
run2	11/15/2013	11:19:30	3.17	16.98
run2	11/15/2013	11:19:45	3.20	16.96
run2	11/15/2013	11:20:00	3.28	16.87
run2	11/15/2013	11:20:15	3.23	16.78
run2	11/15/2013	11:20:30	3.30	16.80
run2	11/15/2013	11:20:45	3.33	16.79
run2	11/15/2013	11:21:00	3.32	16.81
run2	11/15/2013	11:21:15	3.37	16.75
run2	11/15/2013	11:21:30	3.39	16.68
run2	11/15/2013	11:21:45	3.22	16.75
run2	11/15/2013	11:22:00	3.36	16.83
run2	11/15/2013	11:22:15	3.53	16.73
run2	11/15/2013	11:22:30	3.62	16.58
run2	11/15/2013	11:22:45	3.58	16.49
run2	11/15/2013	11:23:00	3.81	16.50
run2	11/15/2013	11:23:15	3.89	16.33
run2	11/15/2013	11:23:30	3.84	16.25
run2	11/15/2013	11:23:45	3.76	16.25
run2	11/15/2013	11:24:00	3.52	16.39
run2	11/15/2013	11:24:15	3.55	16.58
run2	11/15/2013	11:24:30	3.35	16.61
run2	11/15/2013	11:24:45	3.11	16.76
run2	11/15/2013	11:25:00	3.14	16.93
run2	11/15/2013	11:25:15	3.28	16.98
run2	11/15/2013	11:25:30	3.48	16.84
run2	11/15/2013	11:25:45	3.38	16.72
run2	11/15/2013	11:26:00	3.33	16.69
run2	11/15/2013	11:26:15	3.46	16.74
run2	11/15/2013	11:26:30	3.60	16.67
run2	11/15/2013	11:26:45	3.53	16.60
run2	11/15/2013	11:27:00	3.48	16.59
run2	11/15/2013	11:27:15	3.45	16.62
run2	11/15/2013	11:27:30	3.47	16.66
run2	11/15/2013	11:27:45	3.40	16.72
run2	11/15/2013	11:28:00	3.50	16.72
run2	11/15/2013	11:28:15	3.29	16.67
run2	11/15/2013	11:28:30	3.24	16.79
run2	11/15/2013	11:28:45	3.37	16.84
run2	11/15/2013	11:29:00	3.40	16.81
run2	11/15/2013	11:29:15	3.79	16.67
run2	11/15/2013	11:29:30	3.78	16.38
run2	11/15/2013	11:29:45	3.52	16.42
run2	11/15/2013	11:30:00	3.41	16.62
run2	11/15/2013	11:30:15	3.53	16.70
run2	11/15/2013	11:30:30	3.54	16.59
run2	11/15/2013	11:30:45	3.62	16.54
run2	11/15/2013	11:31:00	3.63	16.51
run2	11/15/2013	11:31:15	3.53	16.54
run2	11/15/2013	11:31:30	3.28	16.64
run2	11/15/2013	11:31:45	3.18	16.85
run2	11/15/2013	11:32:00	3.30	16.89

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run2	11/15/2013	11:32:15	3.30	16.84
run2	11/15/2013	11:32:30	3.36	16.83
run2	11/15/2013	11:32:45	3.27	16.80
run2	11/15/2013	11:33:00	3.41	16.76
run2	11/15/2013	11:33:15	3.43	16.70
run2	11/15/2013	11:33:30	3.39	16.72
run2	11/15/2013	11:33:45	3.24	16.77
run2	11/15/2013	11:34:00	3.12	16.87
run2	11/15/2013	11:34:15	3.03	16.99
run2	11/15/2013	11:34:30	3.08	17.07
run2	11/15/2013	11:34:45	3.22	17.04
run2	11/15/2013	11:35:00	3.24	16.94
run2	11/15/2013	11:35:15	3.13	16.89
run2	11/15/2013	11:35:30	2.99	16.97
run2	11/15/2013	11:35:45	2.99	17.13
run2	11/15/2013	11:36:00	2.99	17.15
run2	11/15/2013	11:36:15	2.93	17.16
run2	11/15/2013	11:36:30	3.14	17.12
run2	11/15/2013	11:36:45	3.24	16.96
run2	11/15/2013	11:37:00	3.19	16.91
run2	11/15/2013	11:37:15	3.12	16.95
run2	11/15/2013	11:37:30	3.10	17.00
run2	11/15/2013	11:37:45	3.16	16.97
run2	11/15/2013	11:38:00	3.27	16.91
run2	11/15/2013	11:38:15	3.17	16.92
run2	11/15/2013	11:38:30	3.15	16.97
run2	11/15/2013	11:38:45	3.37	16.91
run2	11/15/2013	11:39:00	3.33	16.73
run2	11/15/2013	11:39:15	3.28	16.77
run2	11/15/2013	11:39:30	3.32	16.82
run2	11/15/2013	11:39:45	3.45	16.79
run2	11/15/2013	11:40:00	3.33	16.65
run2	11/15/2013	11:40:15	3.27	16.74
run2	11/15/2013	11:40:30	3.24	16.82
run2	11/15/2013	11:40:45	3.32	16.85
run2	11/15/2013	11:41:00	3.32	16.80
run2	11/15/2013	11:41:15	3.27	16.72
run2	11/15/2013	11:41:30	3.25	16.82
run2	11/15/2013	11:41:45	3.28	16.86
run2	11/15/2013	11:42:00	3.21	16.87
run2	11/15/2013	11:42:15	3.32	16.84
run2	11/15/2013	11:42:30	3.35	16.74
run2	11/15/2013	11:42:45	3.24	16.75
run2	11/15/2013	11:43:00	3.23	16.86
run2	11/15/2013	11:43:15	3.27	16.85
run2	11/15/2013	11:43:30	3.30	16.79
run2	11/15/2013	11:43:45	3.55	16.71
run2	11/15/2013	11:44:00	3.50	16.60
run2	11/15/2013	11:44:15	3.34	16.65
run2	11/15/2013	11:44:30	3.31	16.71
run2	11/15/2013	11:44:45	3.34	16.71
run2	11/15/2013	11:45:00	3.37	16.72
run2	11/15/2013	11:45:15	3.39	16.72
run2	11/15/2013	11:45:30	3.51	16.71
run2	11/15/2013	11:45:45	3.61	16.57
run2	11/15/2013	11:46:00	3.50	16.50
run2	11/15/2013	11:46:15	3.44	16.59
run2	11/15/2013	11:46:30	3.47	16.64
run2	11/15/2013	11:46:45	3.35	16.67
run2	11/15/2013	11:47:00	3.36	16.69
run2	11/15/2013	11:47:15	3.33	16.71
run2	11/15/2013	11:47:30	3.42	16.74
run2	11/15/2013	11:47:45	3.53	16.68
run2	11/15/2013	11:48:00	3.38	16.62
run2	11/15/2013	11:48:15	3.49	16.64
run2	11/15/2013	11:48:30	3.47	16.61
run2	11/15/2013	11:48:45	3.44	16.65
run2	11/15/2013	11:49:00	3.43	16.68
run2	11/15/2013	11:49:15	3.32	16.68
run2	11/15/2013	11:49:30	3.06	16.77
run2	11/15/2013	11:49:45	3.08	17.02
run2	11/15/2013	11:50:00	3.19	17.02
run2	11/15/2013	11:50:15	3.21	16.98
run2	11/15/2013	11:50:30	3.44	16.83
run2	11/15/2013	11:50:45	3.33	16.68
run2	11/15/2013	11:51:00	3.20	16.81
run2	11/15/2013	11:51:15	3.22	16.89
run2	11/15/2013	11:51:30	3.09	16.94
run2	11/15/2013	11:51:45	3.11	16.97
run2	11/15/2013	11:52:00	3.21	16.98
run2	11/15/2013	11:52:15	3.40	16.90
run2	11/15/2013	11:52:30	3.37	16.75
run2	11/15/2013	11:52:45	3.14	16.76
run2	11/15/2013	11:53:00	3.14	16.94
run2	11/15/2013	11:53:15	3.22	16.96
run2	11/15/2013	11:53:30	3.35	16.91
run2	11/15/2013	11:53:45	3.26	16.77
run2	11/15/2013	11:54:00	3.25	16.81
run2	11/15/2013	11:54:15	3.45	16.83
run2	11/15/2013	11:54:30	3.58	16.70
run2	11/15/2013	11:54:45	3.58	16.58
run2	11/15/2013	11:55:00	3.36	16.55
run2	11/15/2013	11:55:15	3.22	16.74
run2	11/15/2013	11:55:30	3.36	16.86

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run2	11/15/2013	11:55:45	3.50	16.78
run2	11/15/2013	11:56:00	3.63	16.61
run2	11/15/2013	11:56:15	3.56	16.49
run2	11/15/2013	11:56:30	3.56	16.57
run2	11/15/2013	11:56:45	3.51	16.60
run2	11/15/2013	11:57:00	3.29	16.65
run2	11/15/2013	11:57:15	3.11	16.80
run2	11/15/2013	11:57:30	3.06	16.96
run2	11/15/2013	11:57:45	3.19	17.05
run2	11/15/2013	11:58:00	3.31	16.93
run2	11/15/2013	11:58:15	3.26	16.80
run2	11/15/2013	11:58:30	3.24	16.79
run2	11/15/2013	11:58:45	3.09	16.92
run2	11/15/2013	11:59:00	2.94	17.06
run2	11/15/2013	11:59:15	3.09	17.15
run2	11/15/2013	11:59:30	3.17	17.01
run2	11/15/2013	11:59:45	3.08	16.98
run2	11/15/2013	12:00:00	3.08	17.05
run2	11/15/2013	12:00:15	3.01	17.07
run2	11/15/2013	12:00:30	2.90	17.07
run2	11/15/2013	12:00:45	2.75	17.18
run2	11/15/2013	12:01:00	3.06	17.30
run2	11/15/2013	12:01:15	3.29	17.08
run2	11/15/2013	12:01:30	3.35	16.85
run2	11/15/2013	12:01:45	3.35	16.73
run2	11/15/2013	12:02:00	3.36	16.75
run2	11/15/2013	12:02:15	3.37	16.77
run2	11/15/2013	12:02:30	3.32	16.78
run2	11/15/2013	12:02:45	3.33	16.78
run2	11/15/2013	12:03:00	3.58	16.70
run2	11/15/2013	12:03:15	3.56	16.64
run2	11/15/2013	12:03:30	3.63	16.57
run2	11/15/2013	12:03:45	3.42	16.53
run2	11/15/2013	12:04:00	3.31	16.62
run2	11/15/2013	12:04:15	3.16	16.83
run2	11/15/2013	12:04:30	3.05	16.98
run2	11/15/2013	12:04:45	2.96	17.08
run2	11/15/2013	12:05:00	2.96	17.10
run2	11/15/2013	12:05:15	2.96	17.11
run2	11/15/2013	12:05:30	3.11	17.13
run2	11/15/2013	12:05:45	3.08	17.04
run2	11/15/2013	12:06:00	3.04	17.04
run2	11/15/2013	12:06:15	3.15	17.01
run2	11/15/2013	12:06:30	3.33	16.90
run2	11/15/2013	12:06:45	3.37	16.78
run2	11/15/2013	12:07:00	3.34	16.78
run2	11/15/2013	12:07:15	3.47	16.73
run2	11/15/2013	12:07:30	3.37	16.64
run2	11/15/2013	12:07:45	3.35	16.69
run2	11/15/2013	12:08:00	3.29	16.78
run2	11/15/2013	12:08:15	3.52	16.78
run2	11/15/2013	12:08:30	3.56	16.59
run2	11/15/2013	12:08:45	3.38	16.56
run2	11/15/2013	12:09:00	3.38	16.68
run2	11/15/2013	12:09:15	3.70	16.68
run2	11/15/2013	12:09:30	3.89	16.44
run2	11/15/2013	12:09:45	3.59	16.24
run2	11/15/2013	12:10:00	3.28	16.49
run2	11/15/2013	12:10:15	3.23	16.79
run2	11/15/2013	12:10:30	3.25	16.87
run2	11/15/2013	12:10:45	3.30	16.82
run2	11/15/2013	12:11:00	3.43	16.73
run2	11/15/2013	12:11:15	3.58	16.64
run2	11/15/2013	12:11:30	3.52	16.58
run2	11/15/2013	12:11:45	3.49	16.60
run2	11/15/2013	12:12:00	3.53	16.55
run2	11/15/2013	12:12:15	3.36	16.57
run2	11/15/2013	12:12:30	3.19	16.73
run2	11/15/2013	12:12:45	2.99	16.96
run2	11/15/2013	12:13:00	3.02	17.05
run2	11/15/2013	12:13:15	3.07	17.02
run2	11/15/2013	12:13:30	3.06	17.00
run2	11/15/2013	12:13:45	3.16	17.03
run2	11/15/2013	12:14:00	3.32	16.93
run2	11/15/2013	12:14:15	3.19	16.80
run2	11/15/2013	12:14:30	3.16	16.83
run2	11/15/2013	12:14:45	3.23	16.91
run2	11/15/2013	12:15:00	3.26	16.90
run2	11/15/2013	12:15:15	3.43	16.80
averun2	11/15/2013	11:14:00	3.32	16.78
scg1	11/15/2013	12:15:30	3.54	16.65
scg1	11/15/2013	12:15:45	3.71	16.53
scg1	11/15/2013	12:16:00	3.78	16.43
scg1	11/15/2013	12:16:15	3.64	16.33
scg1	11/15/2013	12:16:30	1.39	12.46
scg1	11/15/2013	12:16:45	-0.01	2.97
scg1	11/15/2013	12:17:00	-0.03	0.41
scg1	11/15/2013	12:17:15	-0.05	0.04
scg1	11/15/2013	12:17:30	-0.05	-0.02
scg1	11/15/2013	12:17:45	-0.03	-0.04
scg1	11/15/2013	12:18:00	-0.05	-0.05
scg1	11/15/2013	12:18:15	-0.06	-0.06
scg1	11/15/2013	12:18:30	-0.04	-0.07
scg1	11/15/2013	12:18:45	-0.05	-0.07

name	O2		CO2									
sn	1009241630		1009241630									
offset	0		0									
fullscale	100		20									
train	1		1									
gastype	o2 3a		co2 3a									
scg1	11/15/2013	12:19:00	-0.04	-0.08	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:19:15	-0.04	-0.07	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:19:30	-0.06	-0.09	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:19:45	-0.04	-0.09	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:20:00	-0.05	-0.10	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:20:15	-0.05	-0.10	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:20:30	-0.05	-0.10	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:20:45	-0.06	-0.10	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:21:00	-0.04	-0.11	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:21:15	-0.07	-0.11	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:21:30	-0.05	-0.11	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:21:45	-0.05	-0.11	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:22:00	-0.04	-0.11	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:22:15	-0.05	-0.12	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg1	11/15/2013	12:22:30	-0.06	-0.11	CC281765/cg1	CO	0	0	CO2	0	O2	0
co2zero1	11/15/2013	12:22:15	-0.05	-0.12	CC281765/cg1	CO	0	0	CO2	0	O2	0
o2zero1	11/15/2013	12:22:15	-0.05	-0.12	CC281765/cg1	CO	0	0	CO2	0	O2	0
scg5	11/15/2013	12:22:45	-0.06	-0.11	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:23:00	-0.03	-0.12	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:23:15	-0.06	-0.12	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:23:30	2.37	-0.12	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:23:45	9.32	3.11	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:24:00	9.77	7.58	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:24:15	9.82	9.13	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:24:30	9.85	9.44	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:24:45	9.84	9.53	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:25:00	9.87	9.57	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:25:15	9.85	9.59	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:25:30	9.89	9.59	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:25:45	9.83	9.58	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:26:00	9.85	9.60	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:26:15	9.86	9.63	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:26:30	9.85	9.62	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:26:45	9.85	9.61	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:27:00	9.87	9.62	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg5	11/15/2013	12:27:15	9.87	9.64	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
o2span1	11/15/2013	12:27:00	9.87	9.62	CC427756/cg5	O2	10.03	CO2	9.624	0	0	0
scg6	11/15/2013	12:27:30	9.85	9.65	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:27:45	9.90	9.63	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:28:00	9.83	9.63	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:28:15	9.81	9.65	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:28:30	12.90	9.68	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:28:45	19.71	13.10	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:29:00	20.09	16.67	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:29:15	20.11	18.19	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:29:30	20.13	18.64	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:29:45	20.16	18.78	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:30:00	20.13	18.77	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:30:15	20.14	18.79	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:30:30	20.13	18.84	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:30:45	20.15	18.88	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:31:00	20.14	18.86	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
scg6	11/15/2013	12:31:15	20.12	18.84	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
co2span1	11/15/2013	12:31:15	20.12	18.84	CC365323/cg6	O2	20.37	CO2	19.07	0	0	0
run3l	11/15/2013	12:32:45	3.36	17.61								
run3l	11/15/2013	12:33:00	3.29	17.18								
run3	11/15/2013	12:33:15	3.23	17.02								
run3	11/15/2013	12:33:30	3.13	17.03								
run3	11/15/2013	12:33:45	3.22	17.12								
run3	11/15/2013	12:34:00	3.26	17.08								
run3	11/15/2013	12:34:15	3.29	16.99								
run3	11/15/2013	12:34:30	3.32	16.91								
run3	11/15/2013	12:34:45	3.27	16.92								
run3	11/15/2013	12:35:00	3.24	16.97								
run3	11/15/2013	12:35:15	3.21	17.03								
run3	11/15/2013	12:35:30	3.24	17.00								
run3	11/15/2013	12:35:45	3.36	16.93								
run3	11/15/2013	12:36:00	3.27	16.89								
run3	11/15/2013	12:36:15	3.17	16.98								
run3	11/15/2013	12:36:30	3.13	17.07								
run3	11/15/2013	12:36:45	3.13	17.06								
run3	11/15/2013	12:37:00	3.18	17.07								
run3	11/15/2013	12:37:15	3.22	17.05								
run3	11/15/2013	12:37:30	3.19	17.04								
run3	11/15/2013	12:37:45	3.27	17.01								
run3	11/15/2013	12:38:00	3.37	16.93								
run3	11/15/2013	12:38:15	3.49	16.82								
run3	11/15/2013	12:38:30	3.48	16.76								
run3	11/15/2013	12:38:45	3.35	16.77								
run3	11/15/2013	12:39:00	3.24	16.84								
run3	11/15/2013	12:39:15	3.37	16.92								
run3	11/15/2013	12:39:30	3.42	16.87								
run3	11/15/2013	12:39:45	3.37	16.82								
run3	11/15/2013	12:40:00	3.20	16.84								
run3	11/15/2013	12:40:15	3.29	16.95								
run3	11/15/2013	12:40:30	3.31	16.96								
run3	11/15/2013	12:40:45	3.28	16.93								
run3	11/15/2013	12:41:00	3.27	16.94								
run3	11/15/2013	12:41:15	3.36	16.88								
run3	11/15/2013	12:41:30	3.49	16.84								
run3	11/15/2013	12:41:45	3.66	16.70								
run3	11/15/2013	12:42:00	3.48	16.62								
run3	11/15/2013	12:42:15	3.31	16.73								
run3	11/15/2013	12:42:30	3.30	16.83								

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run3	11/15/2013	12:42:45	3.33	16.89
run3	11/15/2013	12:43:00	3.51	16.85
run3	11/15/2013	12:43:15	3.49	16.73
run3	11/15/2013	12:43:30	3.48	16.68
run3	11/15/2013	12:43:45	3.49	16.67
run3	11/15/2013	12:44:00	3.31	16.73
run3	11/15/2013	12:44:15	3.08	16.94
run3	11/15/2013	12:44:30	3.36	17.06
run3	11/15/2013	12:44:45	3.63	16.77
run3	11/15/2013	12:45:00	3.61	16.60
run3	11/15/2013	12:45:15	3.45	16.62
run3	11/15/2013	12:45:30	3.50	16.73
run3	11/15/2013	12:45:45	3.77	16.63
run3	11/15/2013	12:46:00	3.71	16.45
run3	11/15/2013	12:46:15	3.44	16.54
run3	11/15/2013	12:46:30	3.51	16.69
run3	11/15/2013	12:46:45	3.54	16.68
run3	11/15/2013	12:47:00	3.52	16.65
run3	11/15/2013	12:47:15	3.52	16.62
run3	11/15/2013	12:47:30	3.58	16.64
run3	11/15/2013	12:47:45	3.56	16.66
run3	11/15/2013	12:48:00	3.49	16.65
run3	11/15/2013	12:48:15	3.35	16.67
run3	11/15/2013	12:48:30	3.20	16.80
run3	11/15/2013	12:48:45	3.28	16.94
run3	11/15/2013	12:49:00	3.33	16.92
run3	11/15/2013	12:49:15	3.33	16.88
run3	11/15/2013	12:49:30	3.43	16.82
run3	11/15/2013	12:49:45	3.47	16.70
run3	11/15/2013	12:50:00	3.54	16.71
run3	11/15/2013	12:50:15	3.67	16.65
run3	11/15/2013	12:50:30	3.59	16.53
run3	11/15/2013	12:50:45	3.43	16.54
run3	11/15/2013	12:51:00	3.39	16.70
run3	11/15/2013	12:51:15	3.62	16.73
run3	11/15/2013	12:51:30	3.67	16.59
run3	11/15/2013	12:51:45	3.57	16.52
run3	11/15/2013	12:52:00	3.46	16.53
run3	11/15/2013	12:52:15	3.35	16.68
run3	11/15/2013	12:52:30	3.37	16.79
run3	11/15/2013	12:52:45	3.43	16.79
run3	11/15/2013	12:53:00	3.28	16.76
run3	11/15/2013	12:53:15	3.32	16.81
run3	11/15/2013	12:53:30	3.46	16.84
run3	11/15/2013	12:53:45	3.48	16.72
run3	11/15/2013	12:54:00	3.41	16.72
run3	11/15/2013	12:54:15	3.46	16.67
run3	11/15/2013	12:54:30	3.27	16.71
run3	11/15/2013	12:54:45	3.12	16.91
run3	11/15/2013	12:55:00	3.05	17.04
run3	11/15/2013	12:55:15	3.07	17.09
run3	11/15/2013	12:55:30	3.00	17.07
run3	11/15/2013	12:55:45	2.99	17.16
run3	11/15/2013	12:56:00	3.04	17.18
run3	11/15/2013	12:56:15	3.21	17.10
run3	11/15/2013	12:56:30	3.35	16.92
run3	11/15/2013	12:56:45	3.27	16.82
run3	11/15/2013	12:57:00	3.30	16.90
run3	11/15/2013	12:57:15	3.37	16.87
run3	11/15/2013	12:57:30	3.55	16.73
run3	11/15/2013	12:57:45	3.40	16.64
run3	11/15/2013	12:58:00	3.11	16.81
run3	11/15/2013	12:58:15	2.98	17.06
run3	11/15/2013	12:58:30	3.04	17.14
run3	11/15/2013	12:58:45	3.36	17.00
run3	11/15/2013	12:59:00	3.38	16.84
run3	11/15/2013	12:59:15	3.38	16.81
run3	11/15/2013	12:59:30	3.45	16.78
run3	11/15/2013	12:59:45	3.43	16.70
run3	11/15/2013	13:00:00	3.44	16.69
run3	11/15/2013	13:00:15	3.44	16.72
run3	11/15/2013	13:00:30	3.49	16.76
run3	11/15/2013	13:00:45	3.51	16.67
run3	11/15/2013	13:01:00	3.40	16.64
run3	11/15/2013	13:01:15	3.21	16.77
run3	11/15/2013	13:01:30	2.99	16.99
run3	11/15/2013	13:01:45	2.95	17.19
run3	11/15/2013	13:02:00	3.00	17.17
run3	11/15/2013	13:02:15	3.05	17.14
run3	11/15/2013	13:02:30	3.01	17.14
run3	11/15/2013	13:02:45	2.92	17.19
run3	11/15/2013	13:03:00	2.78	17.25
run3	11/15/2013	13:03:15	2.81	17.29
run3	11/15/2013	13:03:30	2.84	17.35
run3	11/15/2013	13:03:45	3.09	17.31
run3	11/15/2013	13:04:00	3.27	17.10
run3	11/15/2013	13:04:15	3.23	16.90
run3	11/15/2013	13:04:30	3.22	16.89
run3	11/15/2013	13:04:45	3.25	16.93
run3	11/15/2013	13:05:00	3.24	16.94
run3	11/15/2013	13:05:15	3.30	16.94
run3	11/15/2013	13:05:30	3.42	16.84
run3	11/15/2013	13:05:45	3.56	16.70
run3	11/15/2013	13:06:00	3.48	16.65

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run3	11/15/2013	13:06:15	3.53	16.66
run3	11/15/2013	13:06:30	3.49	16.65
run3	11/15/2013	13:06:45	3.51	16.58
run3	11/15/2013	13:07:00	3.27	16.65
run3	11/15/2013	13:07:15	3.15	16.89
run3	11/15/2013	13:07:30	3.15	17.02
run3	11/15/2013	13:07:45	3.20	16.99
run3	11/15/2013	13:08:00	3.19	16.92
run3	11/15/2013	13:08:15	3.28	16.94
run3	11/15/2013	13:08:30	3.27	16.90
run3	11/15/2013	13:08:45	3.31	16.88
run3	11/15/2013	13:09:00	3.39	16.83
run3	11/15/2013	13:09:15	3.46	16.72
run3	11/15/2013	13:09:30	3.43	16.68
run3	11/15/2013	13:09:45	3.45	16.68
run3	11/15/2013	13:10:00	3.44	16.69
run3	11/15/2013	13:10:15	3.33	16.69
run3	11/15/2013	13:10:30	3.26	16.77
run3	11/15/2013	13:10:45	3.24	16.89
run3	11/15/2013	13:11:00	3.22	16.92
run3	11/15/2013	13:11:15	3.24	16.87
run3	11/15/2013	13:11:30	3.22	16.86
run3	11/15/2013	13:11:45	3.27	16.90
run3	11/15/2013	13:12:00	3.57	16.84
run3	11/15/2013	13:12:15	3.56	16.61
run3	11/15/2013	13:12:30	3.22	16.58
run3	11/15/2013	13:12:45	3.17	16.88
run3	11/15/2013	13:13:00	3.32	16.94
run3	11/15/2013	13:13:15	3.29	16.86
run3	11/15/2013	13:13:30	3.19	16.83
run3	11/15/2013	13:13:45	3.08	16.90
run3	11/15/2013	13:14:00	3.33	16.98
run3	11/15/2013	13:14:15	3.46	16.83
run3	11/15/2013	13:14:30	3.31	16.75
run3	11/15/2013	13:14:45	3.29	16.78
run3	11/15/2013	13:15:00	3.33	16.81
run3	11/15/2013	13:15:15	3.28	16.84
run3	11/15/2013	13:15:30	3.29	16.87
run3	11/15/2013	13:15:45	3.40	16.81
run3	11/15/2013	13:16:00	3.41	16.70
run3	11/15/2013	13:16:15	3.39	16.71
run3	11/15/2013	13:16:30	3.53	16.72
run3	11/15/2013	13:16:45	3.33	16.65
run3	11/15/2013	13:17:00	3.15	16.77
run3	11/15/2013	13:17:15	3.19	16.90
run3	11/15/2013	13:17:30	3.39	16.91
run3	11/15/2013	13:17:45	3.33	16.79
run3	11/15/2013	13:18:00	3.22	16.81
run3	11/15/2013	13:18:15	3.32	16.84
run3	11/15/2013	13:18:30	3.32	16.74
run3	11/15/2013	13:18:45	3.13	16.81
run3	11/15/2013	13:19:00	3.10	17.00
run3	11/15/2013	13:19:15	3.43	16.94
run3	11/15/2013	13:19:30	3.42	16.70
run3	11/15/2013	13:19:45	3.22	16.71
run3	11/15/2013	13:20:00	3.26	16.86
run3	11/15/2013	13:20:15	3.44	16.83
run3	11/15/2013	13:20:30	3.43	16.70
run3	11/15/2013	13:20:45	3.57	16.60
run3	11/15/2013	13:21:00	3.63	16.52
run3	11/15/2013	13:21:15	3.48	16.53
run3	11/15/2013	13:21:30	3.61	16.60
run3	11/15/2013	13:21:45	3.69	16.50
run3	11/15/2013	13:22:00	3.74	16.38
run3	11/15/2013	13:22:15	3.60	16.40
run3	11/15/2013	13:22:30	3.35	16.56
run3	11/15/2013	13:22:45	3.37	16.73
run3	11/15/2013	13:23:00	3.35	16.69
run3	11/15/2013	13:23:15	3.35	16.70
run3	11/15/2013	13:23:30	3.51	16.72
run3	11/15/2013	13:23:45	3.34	16.66
run3	11/15/2013	13:24:00	3.12	16.79
run3	11/15/2013	13:24:15	3.09	16.96
run3	11/15/2013	13:24:30	3.13	16.95
run3	11/15/2013	13:24:45	3.07	17.01
run3	11/15/2013	13:25:00	3.12	17.06
run3	11/15/2013	13:25:15	3.16	16.99
run3	11/15/2013	13:25:30	3.08	16.94
run3	11/15/2013	13:25:45	3.07	16.99
run3	11/15/2013	13:26:00	3.19	17.04
run3	11/15/2013	13:26:15	3.24	16.96
run3	11/15/2013	13:26:30	3.22	16.91
run3	11/15/2013	13:26:45	3.46	16.80
run3	11/15/2013	13:27:00	3.49	16.68
run3	11/15/2013	13:27:15	3.61	16.60
run3	11/15/2013	13:27:30	3.41	16.57
run3	11/15/2013	13:27:45	3.24	16.72
run3	11/15/2013	13:28:00	3.42	16.78
run3	11/15/2013	13:28:15	3.51	16.68
run3	11/15/2013	13:28:30	3.38	16.67
run3	11/15/2013	13:28:45	3.20	16.78
run3	11/15/2013	13:29:00	2.98	16.91
run3	11/15/2013	13:29:15	3.01	17.07
run3	11/15/2013	13:29:30	3.05	17.12

name	O2	CO2
sn	1009241630	1009241630
offset	0	0
fullscale	100	20
train	1	1
gastype	o2 3a	co2 3a
run3	11/15/2013 13:29:45	3.18 17.07
run3	11/15/2013 13:30:00	3.18 17.00
run3	11/15/2013 13:30:15	3.15 16.90
run3	11/15/2013 13:30:30	3.11 16.95
run3	11/15/2013 13:30:45	3.09 17.02
run3	11/15/2013 13:31:00	2.93 17.07
run3	11/15/2013 13:31:15	2.82 17.17
run3	11/15/2013 13:31:30	2.73 17.25
run3	11/15/2013 13:31:45	2.84 17.38
run3	11/15/2013 13:32:00	2.88 17.34
run3	11/15/2013 13:32:15	2.95 17.27
run3	11/15/2013 13:32:30	2.94 17.16
run3	11/15/2013 13:32:45	2.91 17.17
run3	11/15/2013 13:33:00	3.02 17.21
run3	11/15/2013 13:33:15	3.14 17.12
run3	11/15/2013 13:33:30	3.20 16.98
run3	11/15/2013 13:33:45	3.21 16.91
run3	11/15/2013 13:34:00	3.18 16.94
run3	11/15/2013 13:34:15	3.23 16.95
run3	11/15/2013 13:34:30	3.33 16.89
run3	11/15/2013 13:34:45	3.43 16.77
run3	11/15/2013 13:35:00	3.69 16.66
run3	11/15/2013 13:35:15	3.66 16.50
run3	11/15/2013 13:35:30	3.62 16.50
run3	11/15/2013 13:35:45	3.61 16.48
run3	11/15/2013 13:36:00	3.55 16.51
run3	11/15/2013 13:36:15	3.54 16.59
run3	11/15/2013 13:36:30	3.42 16.63
run3	11/15/2013 13:36:45	3.19 16.75
run3	11/15/2013 13:37:00	3.13 16.87
run3	11/15/2013 13:37:15	3.28 16.96
run3	11/15/2013 13:37:30	3.36 16.89
run3	11/15/2013 13:37:45	3.22 16.83
run3	11/15/2013 13:38:00	3.07 16.87
run3	11/15/2013 13:38:15	2.97 17.05
run3	11/15/2013 13:38:30	3.12 17.15
run3	11/15/2013 13:38:45	3.38 17.00
run3	11/15/2013 13:39:00	3.29 16.78
run3	11/15/2013 13:39:15	3.13 16.84
run3	11/15/2013 13:39:30	3.29 16.96
run3	11/15/2013 13:39:45	3.27 16.89
run3	11/15/2013 13:40:00	3.34 16.88
run3	11/15/2013 13:40:15	3.45 16.73
run3	11/15/2013 13:40:30	3.37 16.67
run3	11/15/2013 13:40:45	3.44 16.77
run3	11/15/2013 13:41:00	3.48 16.71
run3	11/15/2013 13:41:15	3.56 16.60
run3	11/15/2013 13:41:30	3.53 16.53
run3	11/15/2013 13:41:45	3.46 16.59
run3	11/15/2013 13:42:00	3.33 16.67
run3	11/15/2013 13:42:15	3.25 16.79
run3	11/15/2013 13:42:30	3.34 16.80
run3	11/15/2013 13:42:45	3.32 16.81
run3	11/15/2013 13:43:00	3.49 16.80
run3	11/15/2013 13:43:15	3.60 16.65
run3	11/15/2013 13:43:30	3.63 16.50
run3	11/15/2013 13:43:45	3.53 16.49
run3	11/15/2013 13:44:00	3.35 16.63
run3	11/15/2013 13:44:15	3.30 16.76
run3	11/15/2013 13:44:30	3.13 16.79
run3	11/15/2013 13:44:45	3.16 16.92
run3	11/15/2013 13:45:00	3.11 16.99
run3	11/15/2013 13:45:15	3.34 16.98
run3	11/15/2013 13:45:30	3.34 16.82
run3	11/15/2013 13:45:45	3.31 16.74
run3	11/15/2013 13:46:00	3.35 16.79
run3	11/15/2013 13:46:15	3.31 16.80
run3	11/15/2013 13:46:30	3.41 16.80
run3	11/15/2013 13:46:45	3.52 16.67
run3	11/15/2013 13:47:00	3.70 16.53
run3	11/15/2013 13:47:15	3.88 16.40
run3	11/15/2013 13:47:30	3.78 16.30
run3	11/15/2013 13:47:45	3.59 16.38
run3	11/15/2013 13:48:00	3.43 16.50
run3	11/15/2013 13:48:15	3.31 16.66
run3	11/15/2013 13:48:30	3.44 16.76
run3	11/15/2013 13:48:45	3.49 16.68
run3	11/15/2013 13:49:00	3.52 16.60
run3	11/15/2013 13:49:15	3.31 16.59
run3	11/15/2013 13:49:30	3.32 16.75
run3	11/15/2013 13:49:45	3.40 16.80
run3	11/15/2013 13:50:00	3.45 16.73
run3	11/15/2013 13:50:15	3.45 16.64
run3	11/15/2013 13:50:30	3.43 16.65
run3	11/15/2013 13:50:45	3.39 16.68
run3	11/15/2013 13:51:00	3.29 16.74
run3	11/15/2013 13:51:15	3.21 16.80
run3	11/15/2013 13:51:30	3.13 16.83
run3	11/15/2013 13:51:45	3.18 16.93
run3	11/15/2013 13:52:00	3.32 16.90
run3	11/15/2013 13:52:15	3.46 16.76
run3	11/15/2013 13:52:30	3.42 16.64
run3	11/15/2013 13:52:45	3.32 16.65
run3	11/15/2013 13:53:00	3.34 16.74

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run3	11/15/2013	13:53:15	3.31	16.79
run3	11/15/2013	13:53:30	3.19	16.82
averun3	11/15/2013	12:46:00	3.31	16.83
scg6	11/15/2013	13:53:45	3.15	16.87 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:54:00	3.46	16.86 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:54:15	3.39	16.69 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:54:30	6.91	16.74 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:54:45	19.23	15.99 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:55:00	20.03	16.69 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:55:15	20.10	17.99 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:55:30	20.13	18.50 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:55:45	20.15	18.73 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:56:00	20.16	18.71 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:56:15	20.17	18.70 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:56:30	20.18	18.75 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:56:45	20.18	18.78 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:57:00	20.18	18.79 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:57:15	20.16	18.75 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:57:30	20.18	18.71 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:57:45	20.18	18.77 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013	13:58:00	20.19	18.79 CC365323/cg6 O2 20.37 CO2 19.07 0 0
co2span1	11/15/2013	13:58:00	20.19	18.79 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg5	11/15/2013	13:58:15	20.18	18.78 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	13:58:30	20.19	18.72 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	13:58:45	20.18	18.74 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	13:59:00	20.18	18.79 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	13:59:15	14.09	17.98 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	13:59:30	9.94	13.35 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	13:59:45	9.96	9.96 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	14:00:00	9.93	9.74 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	14:00:15	9.95	9.74 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	14:00:30	9.92	9.74 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	14:00:45	9.93	9.71 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	14:01:00	9.92	9.69 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	14:01:15	9.92	9.70 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	14:01:30	9.93	9.72 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013	14:01:45	9.92	9.72 CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2span1	11/15/2013	14:01:45	9.92	9.72 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg1	11/15/2013	14:02:00	9.93	9.69 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013	14:02:15	9.92	9.69 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013	14:02:30	9.91	9.71 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013	14:02:45	9.51	9.71 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013	14:03:00	1.22	7.85 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013	14:03:15	0.09	2.06 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013	14:03:30	0.05	0.39 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013	14:03:45	0.01	0.10 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013	14:04:00	0.00	0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/15/2013	14:04:00	0.00	0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/15/2013	14:04:00	0.00	0.05 CC281765/cg1 CO 0 0 CO2 0 O2 0
run4l	11/15/2013	14:05:00	0.44	0.01
run4l	11/15/2013	14:05:15	3.31	4.10
run4l	11/15/2013	14:05:30	3.53	13.39
run4l	11/15/2013	14:05:45	3.50	16.03
run4	11/15/2013	14:06:00	3.48	16.49
run4	11/15/2013	14:06:15	3.38	16.67
run4	11/15/2013	14:06:30	3.29	16.76
run4	11/15/2013	14:06:45	3.44	16.77
run4	11/15/2013	14:07:00	3.49	16.71
run4	11/15/2013	14:07:15	3.44	16.71
run4	11/15/2013	14:07:30	3.55	16.75
run4	11/15/2013	14:07:45	3.73	16.55
run4	11/15/2013	14:08:00	3.51	16.49
run4	11/15/2013	14:08:15	3.40	16.69
run4	11/15/2013	14:08:30	3.45	16.79
run4	11/15/2013	14:08:45	3.56	16.73
run4	11/15/2013	14:09:00	3.63	16.60
run4	11/15/2013	14:09:15	3.56	16.55
run4	11/15/2013	14:09:30	3.55	16.63
run4	11/15/2013	14:09:45	3.51	16.67
run4	11/15/2013	14:10:00	3.38	16.68
run4	11/15/2013	14:10:15	3.13	16.83
run4	11/15/2013	14:10:30	3.19	17.00
run4	11/15/2013	14:10:45	3.17	17.06
run4	11/15/2013	14:11:00	3.24	17.04
run4	11/15/2013	14:11:15	3.33	16.93
run4	11/15/2013	14:11:30	3.33	16.88
run4	11/15/2013	14:11:45	3.25	16.91
run4	11/15/2013	14:12:00	3.20	17.00
run4	11/15/2013	14:12:15	3.21	17.03
run4	11/15/2013	14:12:30	3.17	16.99
run4	11/15/2013	14:12:45	3.28	16.99
run4	11/15/2013	14:13:00	3.37	16.95
run4	11/15/2013	14:13:15	3.39	16.89
run4	11/15/2013	14:13:30	3.42	16.83
run4	11/15/2013	14:13:45	3.41	16.77
run4	11/15/2013	14:14:00	3.34	16.82
run4	11/15/2013	14:14:15	3.20	16.93
run4	11/15/2013	14:14:30	3.19	17.00
run4	11/15/2013	14:14:45	3.05	17.02
run4	11/15/2013	14:15:00	3.24	17.08
run4	11/15/2013	14:15:15	3.54	16.93
run4	11/15/2013	14:15:30	3.65	16.70
run4	11/15/2013	14:15:45	3.53	16.63
run4	11/15/2013	14:16:00	3.45	16.65

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run4	11/15/2013	14:16:15	3.33	16.74
run4	11/15/2013	14:16:30	3.20	16.89
run4	11/15/2013	14:16:45	3.30	16.99
run4	11/15/2013	14:17:00	3.43	16.91
run4	11/15/2013	14:17:15	3.47	16.75
run4	11/15/2013	14:17:30	3.48	16.71
run4	11/15/2013	14:17:45	3.44	16.74
run4	11/15/2013	14:18:00	3.43	16.79
run4	11/15/2013	14:18:15	3.45	16.81
run4	11/15/2013	14:18:30	3.62	16.69
run4	11/15/2013	14:18:45	3.67	16.58
run4	11/15/2013	14:19:00	3.61	16.55
run4	11/15/2013	14:19:15	3.52	16.61
run4	11/15/2013	14:19:30	3.44	16.69
run4	11/15/2013	14:19:45	3.39	16.73
run4	11/15/2013	14:20:00	3.39	16.77
run4	11/15/2013	14:20:15	3.37	16.83
run4	11/15/2013	14:20:30	3.26	16.88
run4	11/15/2013	14:20:45	3.24	16.91
run4	11/15/2013	14:21:00	3.27	16.91
run4	11/15/2013	14:21:15	3.39	16.91
run4	11/15/2013	14:21:30	3.49	16.81
run4	11/15/2013	14:21:45	3.42	16.73
run4	11/15/2013	14:22:00	3.30	16.73
run4	11/15/2013	14:22:15	3.18	16.85
run4	11/15/2013	14:22:30	3.09	17.01
run4	11/15/2013	14:22:45	3.25	17.07
run4	11/15/2013	14:23:00	3.14	16.98
run4	11/15/2013	14:23:15	3.08	17.00
run4	11/15/2013	14:23:30	3.08	17.04
run4	11/15/2013	14:23:45	3.06	17.13
run4	11/15/2013	14:24:00	2.96	17.14
run4	11/15/2013	14:24:15	2.94	17.19
run4	11/15/2013	14:24:30	2.97	17.18
run4	11/15/2013	14:24:45	3.09	17.18
run4	11/15/2013	14:25:00	3.13	17.12
run4	11/15/2013	14:25:15	3.20	17.07
run4	11/15/2013	14:25:30	3.46	16.92
run4	11/15/2013	14:25:45	3.48	16.70
run4	11/15/2013	14:26:00	3.51	16.71
run4	11/15/2013	14:26:15	3.70	16.63
run4	11/15/2013	14:26:30	3.63	16.51
run4	11/15/2013	14:26:45	3.52	16.53
run4	11/15/2013	14:27:00	3.46	16.59
run4	11/15/2013	14:27:15	3.56	16.68
run4	11/15/2013	14:27:30	3.64	16.63
run4	11/15/2013	14:27:45	3.71	16.55
run4	11/15/2013	14:28:00	3.65	16.46
run4	11/15/2013	14:28:15	3.53	16.50
run4	11/15/2013	14:28:30	3.46	16.63
run4	11/15/2013	14:28:45	3.35	16.73
run4	11/15/2013	14:29:00	3.30	16.81
run4	11/15/2013	14:29:15	3.31	16.83
run4	11/15/2013	14:29:30	3.48	16.81
run4	11/15/2013	14:29:45	3.47	16.74
run4	11/15/2013	14:30:00	3.58	16.67
run4	11/15/2013	14:30:15	3.41	16.63
run4	11/15/2013	14:30:30	3.41	16.67
run4	11/15/2013	14:30:45	3.59	16.69
run4	11/15/2013	14:31:00	3.50	16.61
run4	11/15/2013	14:31:15	3.42	16.70
run4	11/15/2013	14:31:30	3.55	16.72
run4	11/15/2013	14:31:45	3.63	16.55
run4	11/15/2013	14:32:00	3.69	16.50
run4	11/15/2013	14:32:15	3.90	16.42
run4	11/15/2013	14:32:30	3.87	16.29
run4	11/15/2013	14:32:45	3.99	16.30
run4	11/15/2013	14:33:00	4.06	16.11
run4	11/15/2013	14:33:15	3.68	16.14
run4	11/15/2013	14:33:30	3.31	16.49
run4	11/15/2013	14:33:45	3.20	16.83
run4	11/15/2013	14:34:00	3.28	16.93
run4	11/15/2013	14:34:15	3.40	16.81
run4	11/15/2013	14:34:30	3.44	16.73
run4	11/15/2013	14:34:45	3.49	16.72
run4	11/15/2013	14:35:00	3.41	16.69
run4	11/15/2013	14:35:15	3.18	16.78
run4	11/15/2013	14:35:30	3.21	16.90
run4	11/15/2013	14:35:45	3.31	16.90
run4	11/15/2013	14:36:00	3.29	16.85
run4	11/15/2013	14:36:15	3.23	16.90
run4	11/15/2013	14:36:30	3.39	16.91
run4	11/15/2013	14:36:45	3.65	16.68
run4	11/15/2013	14:37:00	3.74	16.49
run4	11/15/2013	14:37:15	3.69	16.43
run4	11/15/2013	14:37:30	3.66	16.49
run4	11/15/2013	14:37:45	3.78	16.47
run4	11/15/2013	14:38:00	3.82	16.32
run4	11/15/2013	14:38:15	3.69	16.35
run4	11/15/2013	14:38:30	3.62	16.45
run4	11/15/2013	14:38:45	3.65	16.52
run4	11/15/2013	14:39:00	3.60	16.51
run4	11/15/2013	14:39:15	3.51	16.50
run4	11/15/2013	14:39:30	3.62	16.56

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run4	11/15/2013	14:39:45	3.53	16.54
run4	11/15/2013	14:40:00	3.37	16.64
run4	11/15/2013	14:40:15	3.43	16.75
run4	11/15/2013	14:40:30	3.43	16.67
run4	11/15/2013	14:40:45	3.32	16.69
run4	11/15/2013	14:41:00	3.33	16.82
run4	11/15/2013	14:41:15	3.53	16.75
run4	11/15/2013	14:41:30	3.47	16.63
run4	11/15/2013	14:41:45	3.35	16.65
run4	11/15/2013	14:42:00	3.48	16.70
run4	11/15/2013	14:42:15	3.57	16.64
run4	11/15/2013	14:42:30	3.65	16.58
run4	11/15/2013	14:42:45	3.60	16.52
run4	11/15/2013	14:43:00	3.59	16.47
run4	11/15/2013	14:43:15	3.50	16.52
run4	11/15/2013	14:43:30	3.54	16.63
run4	11/15/2013	14:43:45	3.79	16.60
run4	11/15/2013	14:44:00	3.85	16.40
run4	11/15/2013	14:44:15	3.69	16.30
run4	11/15/2013	14:44:30	3.59	16.42
run4	11/15/2013	14:44:45	3.40	16.58
run4	11/15/2013	14:45:00	3.25	16.77
run4	11/15/2013	14:45:15	3.25	16.88
run4	11/15/2013	14:45:30	3.26	16.84
run4	11/15/2013	14:45:45	3.27	16.85
run4	11/15/2013	14:46:00	3.39	16.87
run4	11/15/2013	14:46:15	3.48	16.78
run4	11/15/2013	14:46:30	3.45	16.68
run4	11/15/2013	14:46:45	3.46	16.61
run4	11/15/2013	14:47:00	3.22	16.71
run4	11/15/2013	14:47:15	3.14	16.96
run4	11/15/2013	14:47:30	3.23	17.00
run4	11/15/2013	14:47:45	3.19	16.94
run4	11/15/2013	14:48:00	3.24	16.91
run4	11/15/2013	14:48:15	3.14	16.93
run4	11/15/2013	14:48:30	3.09	17.02
run4	11/15/2013	14:48:45	3.10	17.07
run4	11/15/2013	14:49:00	3.11	17.05
run4	11/15/2013	14:49:15	3.05	17.05
run4	11/15/2013	14:49:30	3.02	17.13
run4	11/15/2013	14:49:45	3.26	17.12
run4	11/15/2013	14:50:00	3.44	16.90
run4	11/15/2013	14:50:15	3.46	16.70
run4	11/15/2013	14:50:30	3.43	16.70
run4	11/15/2013	14:50:45	3.32	16.78
run4	11/15/2013	14:51:00	3.34	16.86
run4	11/15/2013	14:51:15	3.36	16.82
run4	11/15/2013	14:51:30	3.49	16.74
run4	11/15/2013	14:51:45	3.47	16.69
run4	11/15/2013	14:52:00	3.48	16.71
run4	11/15/2013	14:52:15	3.49	16.69
run4	11/15/2013	14:52:30	3.42	16.63
run4	11/15/2013	14:52:45	3.22	16.74
run4	11/15/2013	14:53:00	3.11	16.92
run4	11/15/2013	14:53:15	3.01	17.08
run4	11/15/2013	14:53:30	3.26	17.07
run4	11/15/2013	14:53:45	3.37	16.88
run4	11/15/2013	14:54:00	3.26	16.83
run4	11/15/2013	14:54:15	3.14	16.92
run4	11/15/2013	14:54:30	3.31	16.98
run4	11/15/2013	14:54:45	3.52	16.78
run4	11/15/2013	14:55:00	3.30	16.70
run4	11/15/2013	14:55:15	3.36	16.83
run4	11/15/2013	14:55:30	3.51	16.81
run4	11/15/2013	14:55:45	3.46	16.66
run4	11/15/2013	14:56:00	3.38	16.66
run4	11/15/2013	14:56:15	3.24	16.78
run4	11/15/2013	14:56:30	3.28	16.90
run4	11/15/2013	14:56:45	3.53	16.84
run4	11/15/2013	14:57:00	3.45	16.62
run4	11/15/2013	14:57:15	3.30	16.69
run4	11/15/2013	14:57:30	3.17	16.84
run4	11/15/2013	14:57:45	3.02	17.01
run4	11/15/2013	14:58:00	3.12	17.09
run4	11/15/2013	14:58:15	3.03	17.00
run4	11/15/2013	14:58:30	3.06	17.07
run4	11/15/2013	14:58:45	3.24	17.04
run4	11/15/2013	14:59:00	3.15	16.95
run4	11/15/2013	14:59:15	3.21	16.96
run4	11/15/2013	14:59:30	3.27	16.88
run4	11/15/2013	14:59:45	3.33	16.84
run4	11/15/2013	15:00:00	3.46	16.81
run4	11/15/2013	15:00:15	3.43	16.72
run4	11/15/2013	15:00:30	3.54	16.70
run4	11/15/2013	15:00:45	3.63	16.55
run4	11/15/2013	15:01:00	3.60	16.50
run4	11/15/2013	15:01:15	3.66	16.53
run4	11/15/2013	15:01:30	3.75	16.47
run4	11/15/2013	15:01:45	3.59	16.41
run4	11/15/2013	15:02:00	3.47	16.53
run4	11/15/2013	15:02:15	3.54	16.61
run4	11/15/2013	15:02:30	3.60	16.59
run4	11/15/2013	15:02:45	3.50	16.55
run4	11/15/2013	15:03:00	3.47	16.64

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run4	11/15/2013	15:03:15	3.52	16.62
run4	11/15/2013	15:03:30	3.34	16.65
run4	11/15/2013	15:03:45	3.28	16.81
run4	11/15/2013	15:04:00	3.34	16.82
run4	11/15/2013	15:04:15	3.19	16.78
run4	11/15/2013	15:04:30	3.21	16.90
run4	11/15/2013	15:04:45	3.34	16.91
run4	11/15/2013	15:05:00	3.37	16.83
run4	11/15/2013	15:05:15	3.26	16.77
run4	11/15/2013	15:05:30	3.33	16.81
run4	11/15/2013	15:05:45	3.49	16.80
run4	11/15/2013	15:06:00	3.43	16.69
run4	11/15/2013	15:06:15	3.31	16.73
run4	11/15/2013	15:06:30	3.33	16.82
run4	11/15/2013	15:06:45	3.71	16.67
run4	11/15/2013	15:07:00	3.69	16.43
run4	11/15/2013	15:07:15	3.63	16.45
run4	11/15/2013	15:07:30	3.61	16.48
run4	11/15/2013	15:07:45	3.56	16.51
run4	11/15/2013	15:08:00	3.74	16.49
run4	11/15/2013	15:08:15	3.52	16.42
run4	11/15/2013	15:08:30	3.45	16.59
run4	11/15/2013	15:08:45	3.51	16.68
run4	11/15/2013	15:09:00	3.54	16.62
run4	11/15/2013	15:09:15	3.56	16.52
run4	11/15/2013	15:09:30	3.50	16.53
run4	11/15/2013	15:09:45	3.45	16.65
run4	11/15/2013	15:10:00	3.46	16.69
run4	11/15/2013	15:10:15	3.35	16.68
run4	11/15/2013	15:10:30	3.33	16.69
run4	11/15/2013	15:10:45	3.47	16.77
run4	11/15/2013	15:11:00	3.57	16.65
run4	11/15/2013	15:11:15	3.53	16.59
run4	11/15/2013	15:11:30	3.50	16.54
run4	11/15/2013	15:11:45	3.37	16.58
run4	11/15/2013	15:12:00	3.20	16.74
run4	11/15/2013	15:12:15	3.22	16.88
run4	11/15/2013	15:12:30	3.25	16.89
run4	11/15/2013	15:12:45	3.33	16.80
run4	11/15/2013	15:13:00	3.36	16.73
run4	11/15/2013	15:13:15	3.41	16.73
run4	11/15/2013	15:13:30	3.26	16.75
run4	11/15/2013	15:13:45	3.19	16.84
run4	11/15/2013	15:14:00	3.14	16.87
run4	11/15/2013	15:14:15	3.23	16.92
run4	11/15/2013	15:14:30	3.32	16.87
run4	11/15/2013	15:14:45	3.46	16.77
run4	11/15/2013	15:15:00	3.53	16.64
run4	11/15/2013	15:15:15	3.63	16.55
run4	11/15/2013	15:15:30	3.66	16.50
run4	11/15/2013	15:15:45	3.72	16.43
run4	11/15/2013	15:16:00	3.62	16.42
run4	11/15/2013	15:16:15	3.57	16.46
run4	11/15/2013	15:16:30	3.54	16.51
run4	11/15/2013	15:16:45	3.54	16.55
run4	11/15/2013	15:17:00	3.47	16.58
run4	11/15/2013	15:17:15	3.35	16.69
run4	11/15/2013	15:17:30	3.35	16.73
run4	11/15/2013	15:17:45	3.33	16.73
run4	11/15/2013	15:18:00	3.27	16.79
run4	11/15/2013	15:18:15	3.60	16.77
run4	11/15/2013	15:18:30	3.63	16.58
run4	11/15/2013	15:18:45	3.57	16.52
run4	11/15/2013	15:19:00	3.66	16.47
run4	11/15/2013	15:19:15	3.68	16.44
run4	11/15/2013	15:19:30	3.56	16.45
run4	11/15/2013	15:19:45	3.33	16.59
run4	11/15/2013	15:20:00	3.20	16.75
run4	11/15/2013	15:20:15	3.26	16.85
run4	11/15/2013	15:20:30	3.42	16.85
run4	11/15/2013	15:20:45	3.41	16.75
run4	11/15/2013	15:21:00	3.31	16.77
run4	11/15/2013	15:21:15	3.43	16.76
run4	11/15/2013	15:21:30	3.61	16.65
run4	11/15/2013	15:21:45	3.68	16.52
run4	11/15/2013	15:22:00	3.58	16.47
run4	11/15/2013	15:22:15	3.48	16.56
run4	11/15/2013	15:22:30	3.48	16.61
run4	11/15/2013	15:22:45	3.31	16.64
run4	11/15/2013	15:23:00	3.14	16.83
run4	11/15/2013	15:23:15	3.15	16.99
run4	11/15/2013	15:23:30	3.00	17.01
run4	11/15/2013	15:23:45	3.06	17.05
run4	11/15/2013	15:24:00	3.15	17.03
run4	11/15/2013	15:24:15	3.32	16.97
run4	11/15/2013	15:24:30	3.30	16.85
run4	11/15/2013	15:24:45	3.19	16.85
run4	11/15/2013	15:25:00	3.09	16.89
run4	11/15/2013	15:25:15	3.07	17.02
run4	11/15/2013	15:25:30	3.14	17.06
averun4	11/15/2013	14:17:00	3.42	16.73
scg1	11/15/2013	15:25:45	3.23	17.00
scg1	11/15/2013	15:26:00	3.17	16.91
scg1	11/15/2013	15:26:15	3.36	16.89

			60						
CC281765/cg1	CO	0		0	CO2	0	O2	0	
CC281765/cg1	CO	0		0	CO2	0	O2	0	
CC281765/cg1	CO	0		0	CO2	0	O2	0	

Raw 3A Data
Page 18 of 26

name	O2	CO2
sn	1009241630	1009241630
offset	0	0
fullscale	100	20
train	1	1
gastype	o2 3a	co2 3a
run5	11/15/2013 15:51:45	3.44 16.82
run5	11/15/2013 15:52:00	3.51 16.70
run5	11/15/2013 15:52:15	3.48 16.70
run5	11/15/2013 15:52:30	3.55 16.73
run5	11/15/2013 15:52:45	3.58 16.71
run5	11/15/2013 15:53:00	3.59 16.65
run5	11/15/2013 15:53:15	3.58 16.60
run5	11/15/2013 15:53:30	3.60 16.62
run5	11/15/2013 15:53:45	3.55 16.63
run5	11/15/2013 15:54:00	3.54 16.68
run5	11/15/2013 15:54:15	3.54 16.68
run5	11/15/2013 15:54:30	3.56 16.62
run5	11/15/2013 15:54:45	3.40 16.67
run5	11/15/2013 15:55:00	3.33 16.83
run5	11/15/2013 15:55:15	3.57 16.82
run5	11/15/2013 15:55:30	3.60 16.65
run5	11/15/2013 15:55:45	3.40 16.62
run5	11/15/2013 15:56:00	3.24 16.78
run5	11/15/2013 15:56:15	3.23 16.94
run5	11/15/2013 15:56:30	3.45 16.96
run5	11/15/2013 15:56:45	3.66 16.71
run5	11/15/2013 15:57:00	3.46 16.57
run5	11/15/2013 15:57:15	3.22 16.77
run5	11/15/2013 15:57:30	3.21 16.95
run5	11/15/2013 15:57:45	3.14 17.01
run5	11/15/2013 15:58:00	3.25 16.96
run5	11/15/2013 15:58:15	3.32 16.91
run5	11/15/2013 15:58:30	3.31 16.87
run5	11/15/2013 15:58:45	3.11 16.94
run5	11/15/2013 15:59:00	3.14 17.06
run5	11/15/2013 15:59:15	3.37 16.98
run5	11/15/2013 15:59:30	3.49 16.79
run5	11/15/2013 15:59:45	3.22 16.78
run5	11/15/2013 16:00:00	3.14 16.95
run5	11/15/2013 16:00:15	3.18 17.02
run5	11/15/2013 16:00:30	3.19 16.95
run5	11/15/2013 16:00:45	3.13 16.99
run5	11/15/2013 16:01:00	3.19 17.05
run5	11/15/2013 16:01:15	3.36 16.99
run5	11/15/2013 16:01:30	3.49 16.86
run5	11/15/2013 16:01:45	3.67 16.64
run5	11/15/2013 16:02:00	3.82 16.50
run5	11/15/2013 16:02:15	3.82 16.40
run5	11/15/2013 16:02:30	3.77 16.41
run5	11/15/2013 16:02:45	3.68 16.43
run5	11/15/2013 16:03:00	3.78 16.45
run5	11/15/2013 16:03:15	3.81 16.39
run5	11/15/2013 16:03:30	3.72 16.42
run5	11/15/2013 16:03:45	3.63 16.51
run5	11/15/2013 16:04:00	3.59 16.57
run5	11/15/2013 16:04:15	3.46 16.57
run5	11/15/2013 16:04:30	3.49 16.66
run5	11/15/2013 16:04:45	3.65 16.65
run5	11/15/2013 16:05:00	3.73 16.57
run5	11/15/2013 16:05:15	3.68 16.48
run5	11/15/2013 16:05:30	3.49 16.48
run5	11/15/2013 16:05:45	3.44 16.64
run5	11/15/2013 16:06:00	3.49 16.72
run5	11/15/2013 16:06:15	3.40 16.72
run5	11/15/2013 16:06:30	3.35 16.76
run5	11/15/2013 16:06:45	3.44 16.75
run5	11/15/2013 16:07:00	3.49 16.71
run5	11/15/2013 16:07:15	3.47 16.72
run5	11/15/2013 16:07:30	3.46 16.74
run5	11/15/2013 16:07:45	3.45 16.70
run5	11/15/2013 16:08:00	3.36 16.69
run5	11/15/2013 16:08:15	3.36 16.79
run5	11/15/2013 16:08:30	3.24 16.84
run5	11/15/2013 16:08:45	3.27 16.91
run5	11/15/2013 16:09:00	3.44 16.85
run5	11/15/2013 16:09:15	3.57 16.67
run5	11/15/2013 16:09:30	3.44 16.64
run5	11/15/2013 16:09:45	3.38 16.73
run5	11/15/2013 16:10:00	3.46 16.77
run5	11/15/2013 16:10:15	3.55 16.67
run5	11/15/2013 16:10:30	3.57 16.59
run5	11/15/2013 16:10:45	3.70 16.56
run5	11/15/2013 16:11:00	3.60 16.50
run5	11/15/2013 16:11:15	3.55 16.58
run5	11/15/2013 16:11:30	3.52 16.59
run5	11/15/2013 16:11:45	3.60 16.60
run5	11/15/2013 16:12:00	3.70 16.58
run5	11/15/2013 16:12:15	3.68 16.49
run5	11/15/2013 16:12:30	3.73 16.44
run5	11/15/2013 16:12:45	3.89 16.34
run5	11/15/2013 16:13:00	4.00 16.23
run5	11/15/2013 16:13:15	3.85 16.18
run5	11/15/2013 16:13:30	3.52 16.36
run5	11/15/2013 16:13:45	3.55 16.54
run5	11/15/2013 16:14:00	3.57 16.53
run5	11/15/2013 16:14:15	3.46 16.60
run5	11/15/2013 16:14:30	3.40 16.69
run5	11/15/2013 16:14:45	3.42 16.73
run5	11/15/2013 16:15:00	3.41 16.71

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run5	11/15/2013	16:15:15	3.48	16.68
run5	11/15/2013	16:15:30	3.61	16.64
run5	11/15/2013	16:15:45	3.68	16.55
run5	11/15/2013	16:16:00	3.71	16.50
run5	11/15/2013	16:16:15	3.57	16.49
run5	11/15/2013	16:16:30	3.42	16.52
run5	11/15/2013	16:16:45	3.32	16.69
run5	11/15/2013	16:17:00	3.46	16.77
run5	11/15/2013	16:17:15	3.55	16.68
run5	11/15/2013	16:17:30	3.48	16.60
run5	11/15/2013	16:17:45	3.33	16.63
run5	11/15/2013	16:18:00	3.37	16.78
run5	11/15/2013	16:18:15	3.53	16.74
run5	11/15/2013	16:18:30	3.61	16.63
run5	11/15/2013	16:18:45	3.45	16.57
run5	11/15/2013	16:19:00	3.42	16.64
run5	11/15/2013	16:19:15	3.58	16.67
run5	11/15/2013	16:19:30	3.56	16.60
run5	11/15/2013	16:19:45	3.38	16.65
run5	11/15/2013	16:20:00	3.44	16.69
run5	11/15/2013	16:20:15	3.37	16.68
run5	11/15/2013	16:20:30	3.44	16.73
run5	11/15/2013	16:20:45	3.57	16.70
run5	11/15/2013	16:21:00	3.63	16.61
run5	11/15/2013	16:21:15	3.60	16.49
run5	11/15/2013	16:21:30	3.57	16.50
run5	11/15/2013	16:21:45	3.50	16.58
run5	11/15/2013	16:22:00	3.49	16.65
run5	11/15/2013	16:22:15	3.44	16.69
run5	11/15/2013	16:22:30	3.36	16.68
run5	11/15/2013	16:22:45	3.48	16.71
run5	11/15/2013	16:23:00	3.62	16.64
run5	11/15/2013	16:23:15	3.72	16.54
run5	11/15/2013	16:23:30	3.78	16.46
run5	11/15/2013	16:23:45	3.86	16.33
run5	11/15/2013	16:24:00	3.71	16.27
run5	11/15/2013	16:24:15	3.46	16.47
run5	11/15/2013	16:24:30	3.40	16.67
run5	11/15/2013	16:24:45	3.57	16.71
run5	11/15/2013	16:25:00	3.63	16.56
run5	11/15/2013	16:25:15	3.49	16.52
run5	11/15/2013	16:25:30	3.31	16.66
run5	11/15/2013	16:25:45	3.14	16.87
run5	11/15/2013	16:26:00	3.22	16.97
run5	11/15/2013	16:26:15	3.48	16.86
run5	11/15/2013	16:26:30	3.52	16.70
run5	11/15/2013	16:26:45	3.48	16.69
run5	11/15/2013	16:27:00	3.38	16.72
run5	11/15/2013	16:27:15	3.29	16.75
run5	11/15/2013	16:27:30	3.26	16.81
run5	11/15/2013	16:27:45	3.18	16.90
run5	11/15/2013	16:28:00	3.18	16.98
run5	11/15/2013	16:28:15	3.16	16.98
run5	11/15/2013	16:28:30	3.17	16.95
run5	11/15/2013	16:28:45	3.21	16.97
run5	11/15/2013	16:29:00	3.25	16.94
run5	11/15/2013	16:29:15	3.45	16.85
run5	11/15/2013	16:29:30	3.59	16.72
run5	11/15/2013	16:29:45	3.63	16.55
run5	11/15/2013	16:30:00	3.56	16.53
run5	11/15/2013	16:30:15	3.46	16.62
run5	11/15/2013	16:30:30	3.46	16.69
run5	11/15/2013	16:30:45	3.51	16.65
run5	11/15/2013	16:31:00	3.56	16.60
run5	11/15/2013	16:31:15	3.55	16.61
run5	11/15/2013	16:31:30	3.68	16.60
run5	11/15/2013	16:31:45	3.76	16.48
run5	11/15/2013	16:32:00	3.81	16.36
run5	11/15/2013	16:32:15	3.91	16.27
run5	11/15/2013	16:32:30	3.96	16.20
run5	11/15/2013	16:32:45	3.84	16.20
run5	11/15/2013	16:33:00	3.81	16.30
run5	11/15/2013	16:33:15	3.83	16.28
run5	11/15/2013	16:33:30	3.76	16.27
run5	11/15/2013	16:33:45	3.74	16.37
run5	11/15/2013	16:34:00	3.79	16.39
run5	11/15/2013	16:34:15	3.61	16.39
run5	11/15/2013	16:34:30	3.40	16.51
run5	11/15/2013	16:34:45	3.38	16.68
run5	11/15/2013	16:35:00	3.50	16.73
run5	11/15/2013	16:35:15	3.62	16.66
run5	11/15/2013	16:35:30	3.49	16.57
run5	11/15/2013	16:35:45	3.35	16.62
run5	11/15/2013	16:36:00	3.20	16.76
run5	11/15/2013	16:36:15	3.11	16.93
run5	11/15/2013	16:36:30	3.15	17.01
run5	11/15/2013	16:36:45	3.20	16.94
run5	11/15/2013	16:37:00	3.20	16.89
run5	11/15/2013	16:37:15	3.36	16.90
run5	11/15/2013	16:37:30	3.40	16.82
run5	11/15/2013	16:37:45	3.60	16.73
run5	11/15/2013	16:38:00	3.78	16.54
run5	11/15/2013	16:38:15	3.74	16.34
run5	11/15/2013	16:38:30	3.58	16.40

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run5	11/15/2013	16:38:45	3.53	16.57
run5	11/15/2013	16:39:00	3.65	16.59
run5	11/15/2013	16:39:15	3.57	16.51
run5	11/15/2013	16:39:30	3.38	16.55
run5	11/15/2013	16:39:45	3.31	16.73
run5	11/15/2013	16:40:00	3.66	16.75
run5	11/15/2013	16:40:15	3.76	16.51
run5	11/15/2013	16:40:30	3.50	16.41
run5	11/15/2013	16:40:45	3.28	16.62
run5	11/15/2013	16:41:00	3.18	16.81
run5	11/15/2013	16:41:15	3.12	16.96
run5	11/15/2013	16:41:30	3.15	16.98
run5	11/15/2013	16:41:45	3.17	16.95
run5	11/15/2013	16:42:00	3.36	16.89
run5	11/15/2013	16:42:15	3.34	16.79
run5	11/15/2013	16:42:30	3.29	16.79
run5	11/15/2013	16:42:45	3.34	16.81
run5	11/15/2013	16:43:00	3.41	16.71
run5	11/15/2013	16:43:15	3.49	16.71
run5	11/15/2013	16:43:30	3.76	16.63
run5	11/15/2013	16:43:45	3.77	16.43
run5	11/15/2013	16:44:00	3.79	16.34
run5	11/15/2013	16:44:15	3.66	16.32
run5	11/15/2013	16:44:30	3.60	16.45
run5	11/15/2013	16:44:45	3.59	16.53
run5	11/15/2013	16:45:00	3.80	16.50
run5	11/15/2013	16:45:15	3.66	16.36
run5	11/15/2013	16:45:30	3.42	16.45
run5	11/15/2013	16:45:45	3.33	16.65
run5	11/15/2013	16:46:00	3.40	16.77
run5	11/15/2013	16:46:15	3.57	16.71
run5	11/15/2013	16:46:30	3.75	16.52
run5	11/15/2013	16:46:45	3.86	16.33
run5	11/15/2013	16:47:00	3.71	16.28
run5	11/15/2013	16:47:15	3.57	16.41
run5	11/15/2013	16:47:30	3.44	16.60
run5	11/15/2013	16:47:45	3.65	16.60
run5	11/15/2013	16:48:00	3.57	16.47
run5	11/15/2013	16:48:15	3.49	16.55
run5	11/15/2013	16:48:30	3.60	16.60
run5	11/15/2013	16:48:45	3.62	16.55
run5	11/15/2013	16:49:00	3.42	16.54
run5	11/15/2013	16:49:15	3.23	16.63
run5	11/15/2013	16:49:30	3.06	16.86
run5	11/15/2013	16:49:45	3.27	16.94
run5	11/15/2013	16:50:00	3.39	16.85
run5	11/15/2013	16:50:15	3.45	16.68
run5	11/15/2013	16:50:30	3.53	16.63
run5	11/15/2013	16:50:45	3.50	16.63
run5	11/15/2013	16:51:00	3.37	16.67
run5	11/15/2013	16:51:15	3.24	16.77
run5	11/15/2013	16:51:30	3.32	16.79
run5	11/15/2013	16:51:45	3.48	16.72
run5	11/15/2013	16:52:00	3.65	16.65
run5	11/15/2013	16:52:15	3.73	16.48
run5	11/15/2013	16:52:30	3.63	16.42
run5	11/15/2013	16:52:45	3.47	16.50
run5	11/15/2013	16:53:00	3.39	16.61
averun5	11/15/2013	15:44:00	3.48	16.68
scg6	11/15/2013	16:53:30	3.48	16.67
scg6	11/15/2013	16:53:45	3.54	16.66
scg6	11/15/2013	16:54:00	3.52	16.58
scg6	11/15/2013	16:54:15	10.61	16.43
scg6	11/15/2013	16:54:30	19.78	15.80
scg6	11/15/2013	16:54:45	20.09	17.17
scg6	11/15/2013	16:55:00	20.19	18.11
scg6	11/15/2013	16:55:15	20.19	18.49
scg6	11/15/2013	16:55:30	20.21	18.61
scg6	11/15/2013	16:55:45	20.23	18.69
co2span1	11/15/2013	16:55:45	20.23	18.69
scg5	11/15/2013	16:56:00	20.23	18.72
scg5	11/15/2013	16:56:15	20.21	18.73
scg5	11/15/2013	16:56:30	20.23	18.68
scg5	11/15/2013	16:56:45	19.88	18.69
scg5	11/15/2013	16:57:00	11.23	17.05
scg5	11/15/2013	16:57:15	9.91	11.74
scg5	11/15/2013	16:57:30	10.00	9.83
scg5	11/15/2013	16:57:45	9.98	9.71
scg5	11/15/2013	16:58:00	9.99	9.71
scg5	11/15/2013	16:58:15	9.97	9.72
scg5	11/15/2013	16:58:30	9.94	9.71
scg5	11/15/2013	16:58:45	9.96	9.68
scg5	11/15/2013	16:59:00	9.98	9.67
o2span1	11/15/2013	16:58:45	9.96	9.68
scg1	11/15/2013	16:59:15	9.96	9.68
scg1	11/15/2013	16:59:30	9.98	9.69
scg1	11/15/2013	16:59:45	9.98	9.68
scg1	11/15/2013	17:00:00	9.02	9.65
scg1	11/15/2013	17:00:15	0.92	7.06
scg1	11/15/2013	17:00:30	0.13	1.88
scg1	11/15/2013	17:00:45	0.07	0.29
scg1	11/15/2013	17:01:00	0.08	0.07
scg1	11/15/2013	17:01:15	0.05	0.03
scg1	11/15/2013	17:01:30	0.06	0.01

Raw 3A Data
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name	O2	CO2
sn	1009241630	1009241630
offset	0	0
fullscale	100	20
train	1	1
gastype	o2 3a	co2 3a
run6	11/15/2013 17:25:15	3.21 16.84
run6	11/15/2013 17:25:30	3.10 16.89
run6	11/15/2013 17:25:45	3.00 17.00
run6	11/15/2013 17:26:00	3.04 17.01
run6	11/15/2013 17:26:15	3.06 17.02
run6	11/15/2013 17:26:30	2.99 17.06
run6	11/15/2013 17:26:45	3.07 17.09
run6	11/15/2013 17:27:00	3.27 17.00
run6	11/15/2013 17:27:15	3.31 16.83
run6	11/15/2013 17:27:30	3.42 16.77
run6	11/15/2013 17:27:45	3.45 16.72
run6	11/15/2013 17:28:00	3.31 16.70
run6	11/15/2013 17:28:15	3.17 16.80
run6	11/15/2013 17:28:30	3.23 16.86
run6	11/15/2013 17:28:45	3.39 16.82
run6	11/15/2013 17:29:00	3.55 16.72
run6	11/15/2013 17:29:15	3.48 16.62
run6	11/15/2013 17:29:30	3.42 16.65
run6	11/15/2013 17:29:45	3.43 16.65
run6	11/15/2013 17:30:00	3.50 16.66
run6	11/15/2013 17:30:15	3.48 16.64
run6	11/15/2013 17:30:30	3.40 16.67
run6	11/15/2013 17:30:45	3.37 16.74
run6	11/15/2013 17:31:00	3.33 16.71
run6	11/15/2013 17:31:15	3.24 16.78
run6	11/15/2013 17:31:30	3.33 16.85
run6	11/15/2013 17:31:45	3.46 16.79
run6	11/15/2013 17:32:00	3.44 16.67
run6	11/15/2013 17:32:15	3.42 16.65
run6	11/15/2013 17:32:30	3.48 16.68
run6	11/15/2013 17:32:45	3.39 16.69
run6	11/15/2013 17:33:00	3.22 16.78
run6	11/15/2013 17:33:15	3.40 16.82
run6	11/15/2013 17:33:30	3.43 16.72
run6	11/15/2013 17:33:45	3.59 16.68
run6	11/15/2013 17:34:00	3.65 16.58
run6	11/15/2013 17:34:15	3.60 16.52
run6	11/15/2013 17:34:30	3.47 16.54
run6	11/15/2013 17:34:45	3.71 16.57
run6	11/15/2013 17:35:00	3.75 16.46
run6	11/15/2013 17:35:15	3.47 16.48
run6	11/15/2013 17:35:30	3.23 16.65
run6	11/15/2013 17:35:45	3.04 16.86
run6	11/15/2013 17:36:00	3.13 17.01
run6	11/15/2013 17:36:15	3.13 17.01
run6	11/15/2013 17:36:30	3.09 17.01
run6	11/15/2013 17:36:45	2.98 17.05
run6	11/15/2013 17:37:00	3.10 17.09
run6	11/15/2013 17:37:15	3.21 17.00
run6	11/15/2013 17:37:30	2.89 17.00
run6	11/15/2013 17:37:45	2.84 17.22
run6	11/15/2013 17:38:00	2.95 17.23
run6	11/15/2013 17:38:15	3.12 17.11
run6	11/15/2013 17:38:30	3.22 17.00
run6	11/15/2013 17:38:45	3.13 16.95
run6	11/15/2013 17:39:00	3.19 17.00
run6	11/15/2013 17:39:15	3.42 16.87
run6	11/15/2013 17:39:30	3.64 16.68
run6	11/15/2013 17:39:45	3.55 16.55
run6	11/15/2013 17:40:00	3.41 16.61
run6	11/15/2013 17:40:15	3.36 16.73
run6	11/15/2013 17:40:30	3.48 16.70
run6	11/15/2013 17:40:45	3.64 16.59
run6	11/15/2013 17:41:00	3.66 16.50
run6	11/15/2013 17:41:15	3.60 16.50
run6	11/15/2013 17:41:30	3.56 16.52
run6	11/15/2013 17:41:45	3.69 16.51
run6	11/15/2013 17:42:00	3.85 16.42
run6	11/15/2013 17:42:15	3.66 16.38
run6	11/15/2013 17:42:30	3.57 16.47
run6	11/15/2013 17:42:45	3.52 16.51
run6	11/15/2013 17:43:00	3.29 16.63
run6	11/15/2013 17:43:15	3.37 16.77
run6	11/15/2013 17:43:30	3.41 16.77
run6	11/15/2013 17:43:45	3.49 16.72
run6	11/15/2013 17:44:00	3.66 16.57
run6	11/15/2013 17:44:15	3.68 16.42
run6	11/15/2013 17:44:30	3.66 16.44
run6	11/15/2013 17:44:45	3.47 16.52
run6	11/15/2013 17:45:00	3.29 16.65
run6	11/15/2013 17:45:15	3.19 16.77
run6	11/15/2013 17:45:30	3.18 16.84
run6	11/15/2013 17:45:45	3.15 16.92
run6	11/15/2013 17:46:00	3.15 16.95
run6	11/15/2013 17:46:15	3.19 16.94
run6	11/15/2013 17:46:30	3.22 16.86
run6	11/15/2013 17:46:45	3.15 16.87
run6	11/15/2013 17:47:00	3.12 16.95
run6	11/15/2013 17:47:15	3.13 16.97
run6	11/15/2013 17:47:30	3.24 16.96
run6	11/15/2013 17:47:45	3.45 16.78
run6	11/15/2013 17:48:00	3.42 16.65
run6	11/15/2013 17:48:15	3.36 16.70
run6	11/15/2013 17:48:30	3.49 16.71

name	O2	CO2
sn	1009241630	1009241630
offset	0	0
fullscale	100	20
train	1	1
gastype	o2 3a	co2 3a
run6	11/15/2013 17:48:45	3.33 16.64
run6	11/15/2013 17:49:00	3.33 16.71
run6	11/15/2013 17:49:15	3.28 16.78
run6	11/15/2013 17:49:30	3.36 16.80
run6	11/15/2013 17:49:45	3.53 16.71
run6	11/15/2013 17:50:00	3.53 16.57
run6	11/15/2013 17:50:15	3.55 16.53
run6	11/15/2013 17:50:30	3.38 16.59
run6	11/15/2013 17:50:45	3.20 16.75
run6	11/15/2013 17:51:00	3.18 16.88
run6	11/15/2013 17:51:15	3.17 16.89
run6	11/15/2013 17:51:30	3.21 16.88
run6	11/15/2013 17:51:45	3.35 16.86
run6	11/15/2013 17:52:00	3.30 16.78
run6	11/15/2013 17:52:15	3.21 16.81
run6	11/15/2013 17:52:30	3.19 16.83
run6	11/15/2013 17:52:45	3.28 16.84
run6	11/15/2013 17:53:00	3.32 16.81
run6	11/15/2013 17:53:15	3.28 16.80
run6	11/15/2013 17:53:30	3.43 16.78
run6	11/15/2013 17:53:45	3.57 16.59
run6	11/15/2013 17:54:00	3.53 16.52
run6	11/15/2013 17:54:15	3.49 16.57
run6	11/15/2013 17:54:30	3.44 16.62
run6	11/15/2013 17:54:45	3.46 16.66
run6	11/15/2013 17:55:00	3.54 16.59
run6	11/15/2013 17:55:15	3.59 16.52
run6	11/15/2013 17:55:30	3.49 16.53
run6	11/15/2013 17:55:45	3.42 16.61
run6	11/15/2013 17:56:00	3.37 16.68
run6	11/15/2013 17:56:15	3.35 16.70
run6	11/15/2013 17:56:30	3.41 16.67
run6	11/15/2013 17:56:45	3.47 16.64
run6	11/15/2013 17:57:00	3.34 16.65
run6	11/15/2013 17:57:15	3.39 16.70
run6	11/15/2013 17:57:30	3.52 16.67
run6	11/15/2013 17:57:45	3.68 16.52
run6	11/15/2013 17:58:00	3.72 16.43
run6	11/15/2013 17:58:15	3.50 16.43
run6	11/15/2013 17:58:30	3.23 16.61
run6	11/15/2013 17:58:45	3.19 16.77
run6	11/15/2013 17:59:00	3.35 16.81
run6	11/15/2013 17:59:15	3.52 16.70
run6	11/15/2013 17:59:30	3.42 16.61
run6	11/15/2013 17:59:45	3.23 16.69
run6	11/15/2013 18:00:00	3.19 16.80
run6	11/15/2013 18:00:15	3.18 16.82
run6	11/15/2013 18:00:30	3.23 16.87
run6	11/15/2013 18:00:45	3.39 16.82
run6	11/15/2013 18:01:00	3.38 16.72
run6	11/15/2013 18:01:15	3.31 16.71
run6	11/15/2013 18:01:30	3.31 16.74
run6	11/15/2013 18:01:45	3.27 16.77
run6	11/15/2013 18:02:00	3.15 16.87
run6	11/15/2013 18:02:15	3.32 16.91
run6	11/15/2013 18:02:30	3.41 16.76
run6	11/15/2013 18:02:45	3.38 16.68
run6	11/15/2013 18:03:00	3.35 16.72
run6	11/15/2013 18:03:15	3.37 16.75
run6	11/15/2013 18:03:30	3.34 16.76
run6	11/15/2013 18:03:45	3.21 16.75
run6	11/15/2013 18:04:00	3.29 16.81
run6	11/15/2013 18:04:15	3.41 16.79
run6	11/15/2013 18:04:30	3.52 16.72
run6	11/15/2013 18:04:45	3.61 16.61
run6	11/15/2013 18:05:00	3.60 16.46
run6	11/15/2013 18:05:15	3.61 16.49
run6	11/15/2013 18:05:30	3.56 16.51
run6	11/15/2013 18:05:45	3.59 16.57
run6	11/15/2013 18:06:00	3.32 16.61
run6	11/15/2013 18:06:15	3.26 16.73
run6	11/15/2013 18:06:30	3.39 16.81
run6	11/15/2013 18:06:45	3.32 16.76
run6	11/15/2013 18:07:00	3.35 16.79
run6	11/15/2013 18:07:15	3.22 16.76
run6	11/15/2013 18:07:30	3.09 16.84
run6	11/15/2013 18:07:45	3.01 17.03
run6	11/15/2013 18:08:00	3.05 17.08
run6	11/15/2013 18:08:15	3.20 17.01
run6	11/15/2013 18:08:30	3.28 16.88
run6	11/15/2013 18:08:45	3.22 16.85
run6	11/15/2013 18:09:00	3.15 16.93
run6	11/15/2013 18:09:15	3.23 16.97
run6	11/15/2013 18:09:30	3.15 16.92
run6	11/15/2013 18:09:45	3.21 16.90
run6	11/15/2013 18:10:00	3.09 16.91
run6	11/15/2013 18:10:15	3.16 17.01
run6	11/15/2013 18:10:30	3.39 16.93
run6	11/15/2013 18:10:45	3.39 16.74
run6	11/15/2013 18:11:00	3.44 16.69
run6	11/15/2013 18:11:15	3.47 16.71
run6	11/15/2013 18:11:30	3.40 16.70
run6	11/15/2013 18:11:45	3.46 16.71
run6	11/15/2013 18:12:00	3.37 16.66

name	O2	CO2
sn	1009241630	1009241630
offset	0	0
fullscale	100	20
train	1	1
gastype	o2 3a	co2 3a
run6	11/15/2013 18:12:15	3.33 16.74
run6	11/15/2013 18:12:30	3.49 16.76
run6	11/15/2013 18:12:45	3.65 16.63
run6	11/15/2013 18:13:00	3.70 16.48
run6	11/15/2013 18:13:15	3.60 16.42
run6	11/15/2013 18:13:30	3.54 16.49
run6	11/15/2013 18:13:45	3.64 16.57
run6	11/15/2013 18:14:00	3.82 16.50
run6	11/15/2013 18:14:15	3.78 16.34
run6	11/15/2013 18:14:30	3.57 16.32
run6	11/15/2013 18:14:45	3.45 16.53
run6	11/15/2013 18:15:00	3.51 16.66
run6	11/15/2013 18:15:15	3.56 16.61
run6	11/15/2013 18:15:30	3.43 16.56
run6	11/15/2013 18:15:45	3.37 16.66
run6	11/15/2013 18:16:00	3.28 16.73
run6	11/15/2013 18:16:15	3.35 16.81
run6	11/15/2013 18:16:30	3.42 16.76
run6	11/15/2013 18:16:45	3.31 16.68
run6	11/15/2013 18:17:00	3.43 16.74
run6	11/15/2013 18:17:15	3.67 16.64
run6	11/15/2013 18:17:30	3.62 16.50
run6	11/15/2013 18:17:45	3.61 16.48
run6	11/15/2013 18:18:00	3.60 16.46
run6	11/15/2013 18:18:15	3.46 16.51
run6	11/15/2013 18:18:30	3.44 16.64
run6	11/15/2013 18:18:45	3.56 16.65
run6	11/15/2013 18:19:00	3.61 16.54
run6	11/15/2013 18:19:15	3.59 16.47
run6	11/15/2013 18:19:30	3.51 16.51
run6	11/15/2013 18:19:45	3.58 16.60
averun6	11/15/2013 17:09:00	3.34 16.76
scg1	11/15/2013 18:20:00	3.63 16.55 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013 18:20:15	3.51 16.49 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013 18:20:30	3.43 16.56 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013 18:20:45	2.77 15.08 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013 18:21:00	0.18 6.51 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013 18:21:15	0.01 0.97 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013 18:21:30	0.04 0.10 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg1	11/15/2013 18:21:45	0.02 0.00 CC281765/cg1 CO 0 0 CO2 0 O2 0
co2zero1	11/15/2013 18:21:45	0.02 0.00 CC281765/cg1 CO 0 0 CO2 0 O2 0
o2zero1	11/15/2013 18:21:45	0.02 0.00 CC281765/cg1 CO 0 0 CO2 0 O2 0
scg5	11/15/2013 18:22:00	0.00 -0.03 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013 18:22:15	0.03 -0.04 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013 18:22:30	0.00 -0.06 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013 18:22:45	0.05 -0.06 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013 18:23:00	7.27 0.80 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013 18:23:15	9.75 6.24 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013 18:23:30	9.87 8.75 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg5	11/15/2013 18:23:45	9.91 9.38 CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2span1	11/15/2013 18:23:45	9.91 9.38 CC427756/cg5 O2 10.03 CO2 9.624 0 0
scg6	11/15/2013 18:24:00	9.91 9.48 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:24:15	9.94 9.53 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:24:30	9.90 9.56 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:24:45	10.49 9.59 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:25:00	18.56 10.96 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:25:15	20.03 15.72 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:25:30	20.19 17.70 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:25:45	20.17 18.40 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:26:00	20.18 18.61 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:26:15	20.18 18.61 CC365323/cg6 O2 20.37 CO2 19.07 0 0
scg6	11/15/2013 18:26:30	20.21 18.59 CC365323/cg6 O2 20.37 CO2 19.07 0 0
co2span1	11/15/2013 18:26:30	20.21 18.59 CC365323/cg6 O2 20.37 CO2 19.07 0 0
so2zero		
so2span		
noxzero		
noxspan		
co2zero		
co2span		
o2zero		
o2span		
thczero		
thcspan		
cozero		
cospa		
so2ezero	Parameter Not Found	
so2mid	Parameter Not Found	
so2high	Parameter Not Found	
noxezero	Parameter Not Found	
noxlow	Parameter Not Found	
noxmid	Parameter Not Found	
noxhigh	Parameter Not Found	
co2ezero	Parameter Not Found	
co2mid	Parameter Not Found	
co2high	Parameter Not Found	
o2ezero	Parameter Not Found	
o2mid	Parameter Not Found	
o2high	Parameter Not Found	
thcezero	Parameter Not Found	
thclow	Parameter Not Found	
thcmid	Parameter Not Found	
thchigh	Parameter Not Found	
coezero	Parameter Not Found	
colow	Parameter Not Found	

name		O2		CO2	
sn		1009241630		1009241630	
offset		0		0	
fullscale		100		20	
train		1		1	
gastype		o2 3a		co2 3a	
comid	Parameter Not Found				
cohigh	Parameter Not Found				
End					

filename	11/16/2013	8:14:55	C:\RMDATA\20131116.CSV
testby1	C.E.M. Solutions, Inc.		
testby2	1183 East Overdrive Circle		
testby3	Hernando, FL 34442		
testby4	(352) 489-4337		
testfor1	FAGEN		
testfor2	GREC		
testfor3	BFB Boiler (002)		
testfor4	M3A		
name	O2	CO2	
sn	1009241630	1009241630	
offset	0	0	
fullscale	100	20	
train	1	1	
gastype	o2 3a	co2 3a	
dcp1	11/16/2013 8:15:15	20.78	-0.12 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:16:00	20.75	-0.12 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:16:15	20.53	-0.11 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:16:30	2.50	-0.04 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:16:45	-0.02	-0.08 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:17:00	-0.03	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:17:15	-0.04	-0.15 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:17:30	-0.05	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:17:45	-0.05	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:18:00	-0.06	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:18:15	-0.03	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:18:30	-0.04	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:18:45	-0.05	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:19:00	-0.04	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:19:15	-0.06	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:19:30	-0.05	-0.14 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:19:45	-0.04	-0.13 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:20:00	-0.07	-0.13 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:20:15	-0.05	-0.13 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:20:30	-0.06	-0.13 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:20:45	-0.05	-0.13 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:21:00	-0.05	-0.12 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp1	11/16/2013 8:21:15	-0.07	-0.02 CC281765/cg1 CO 0 0 CO2 0 O2 0
coezero1	11/16/2013 8:21:15	-0.07	-0.02 CC281765/cg1 CO 0 0 CO2 0 O2 0
co2ezero1	11/16/2013 8:21:15	-0.07	-0.02 CC281765/cg1 CO 0 0 CO2 0 O2 0
o2ezero1	11/16/2013 8:21:15	-0.07	-0.02 CC281765/cg1 CO 0 0 CO2 0 O2 0
dcp6	11/16/2013 8:21:30	-0.02	-0.01 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:21:45	14.71	2.45 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:22:00	20.19	13.42 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:22:15	20.28	19.36 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:22:30	20.30	20.24 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:22:45	20.32	20.25 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:23:00	20.32	20.24 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:23:15	20.30	20.26 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:23:30	20.31	20.24 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:23:45	20.31	19.38 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp6	11/16/2013 8:24:00	20.33	19.04 CC365323/cg6 O2 20.37 CO2 19.07 0 0
co2high1	11/16/2013 8:24:00	20.33	19.04 CC365323/cg6 O2 20.37 CO2 19.07 0 0
o2high1	11/16/2013 8:24:00	20.33	19.04 CC365323/cg6 O2 20.37 CO2 19.07 0 0
dcp8	11/16/2013 8:24:30	17.47	18.77 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:24:45	0.60	12.08 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:25:00	-0.02	2.41 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:25:15	-0.05	0.26 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:25:30	-0.06	0.04 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:25:45	-0.09	0.02 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:26:00	-0.06	0.02 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:26:15	-0.07	0.02 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:26:30	-0.07	0.02 CC423695/cg8 CO 97.52 0 0 0
dcp8	11/16/2013 8:26:45	-0.06	0.02 CC423695/cg8 CO 97.52 0 0 0
cohigh1	11/16/2013 8:26:45	-0.06	0.02 CC423695/cg8 CO 97.52 0 0 0
dcp5	11/16/2013 8:27:00	-0.05	0.02 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:27:15	0.00	0.03 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:27:30	0.06	0.05 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:27:45	0.14	0.07 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:28:00	0.39	0.19 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:28:15	0.32	0.33 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:28:30	0.33	0.31 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:28:45	6.74	1.29 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:29:00	9.94	6.78 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:29:15	9.95	9.26 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:29:30	9.96	9.66 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:29:45	9.94	9.71 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:30:00	9.96	9.73 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:30:15	9.97	9.75 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp5	11/16/2013 8:30:30	9.97	9.76 CC427756/cg5 O2 10.03 CO2 9.624 0 0
co2mid1	11/16/2013 8:30:15	9.97	9.75 CC427756/cg5 O2 10.03 CO2 9.624 0 0
o2mid1	11/16/2013 8:30:15	9.97	9.75 CC427756/cg5 O2 10.03 CO2 9.624 0 0
dcp7	11/16/2013 8:30:45	8.73	9.66 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:31:00	0.47	6.41 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:31:15	-0.01	1.37 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:31:30	-0.03	0.15 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:31:45	-0.06	0.06 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:32:00	-0.08	0.05 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:32:15	-0.04	0.05 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:32:30	-0.05	0.05 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:32:45	-0.05	0.05 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:33:00	-0.06	0.05 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:33:15	-0.04	0.05 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:33:30	-0.08	0.05 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:33:45	-0.07	0.05 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:34:00	-0.06	0.06 CC334442/cg7 CO 45.96 0 0 0
dcp7	11/16/2013 8:34:15	-0.12	0.04 CC334442/cg7 CO 45.96 0 0 0
comid1	11/16/2013 8:34:15	-0.12	0.04 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013 8:34:45	-0.09	0.04 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013 8:35:00	8.66	0.08 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013 8:35:15	2.90	0.54 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013 8:35:30	0.08	0.62 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013 8:35:45	0.01	0.20 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013 8:36:00	0.04	0.13 CC334442/cg7 CO 45.96 0 0 0

Raw 3A Data
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name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run1f	11/16/2013	8:59:00	3.60	12.84
run1f	11/16/2013	8:59:15	3.52	16.03
run1	11/16/2013	8:59:30	3.65	16.71
run1	11/16/2013	8:59:45	3.84	16.68
run1	11/16/2013	9:00:00	3.85	16.54
run1	11/16/2013	9:00:15	3.61	16.62
run1	11/16/2013	9:00:30	3.59	16.83
run1	11/16/2013	9:00:45	3.64	16.86
run1	11/16/2013	9:01:00	3.65	16.79
run1	11/16/2013	9:01:15	3.55	16.80
run1	11/16/2013	9:01:30	3.23	16.95
run1	11/16/2013	9:01:45	2.99	17.25
run1	11/16/2013	9:02:00	3.02	17.44
run1	11/16/2013	9:02:15	3.09	17.42
run1	11/16/2013	9:02:30	3.26	17.33
run1	11/16/2013	9:02:45	3.23	17.23
run1	11/16/2013	9:03:00	3.16	17.28
run1	11/16/2013	9:03:15	2.97	17.35
run1	11/16/2013	9:03:30	3.01	17.41
run1	11/16/2013	9:03:45	3.12	17.40
run1	11/16/2013	9:04:00	3.18	17.37
run1	11/16/2013	9:04:15	3.34	17.32
run1	11/16/2013	9:04:30	3.42	17.13
run1	11/16/2013	9:04:45	3.38	17.05
run1	11/16/2013	9:05:00	3.36	17.10
run1	11/16/2013	9:05:15	3.30	17.15
run1	11/16/2013	9:05:30	3.35	17.19
run1	11/16/2013	9:05:45	3.31	17.12
run1	11/16/2013	9:06:00	3.35	17.13
run1	11/16/2013	9:06:15	3.44	17.12
run1	11/16/2013	9:06:30	3.45	17.06
run1	11/16/2013	9:06:45	3.50	17.04
run1	11/16/2013	9:07:00	3.60	16.92
run1	11/16/2013	9:07:15	3.68	16.81
run1	11/16/2013	9:07:30	3.38	16.85
run1	11/16/2013	9:07:45	3.28	17.06
run1	11/16/2013	9:08:00	3.18	17.16
run1	11/16/2013	9:08:15	3.12	17.23
run1	11/16/2013	9:08:30	3.30	17.29
run1	11/16/2013	9:08:45	3.52	17.15
run1	11/16/2013	9:09:00	3.55	16.96
run1	11/16/2013	9:09:15	3.37	16.90
run1	11/16/2013	9:09:30	3.20	17.05
run1	11/16/2013	9:09:45	3.31	17.20
run1	11/16/2013	9:10:00	3.35	17.16
run1	11/16/2013	9:10:15	3.33	17.13
run1	11/16/2013	9:10:30	3.38	17.05
run1	11/16/2013	9:10:45	3.42	17.05
run1	11/16/2013	9:11:00	3.29	17.06
run1	11/16/2013	9:11:15	3.22	17.16
run1	11/16/2013	9:11:30	3.39	17.16
run1	11/16/2013	9:11:45	3.56	16.98
run1	11/16/2013	9:12:00	3.46	16.90
run1	11/16/2013	9:12:15	3.22	17.02
run1	11/16/2013	9:12:30	3.16	17.20
run1	11/16/2013	9:12:45	3.28	17.16
run1	11/16/2013	9:13:00	3.24	17.14
run1	11/16/2013	9:13:15	3.27	17.17
run1	11/16/2013	9:13:30	3.35	17.14
run1	11/16/2013	9:13:45	3.42	17.07
run1	11/16/2013	9:14:00	3.48	16.94
run1	11/16/2013	9:14:15	3.60	16.88
run1	11/16/2013	9:14:30	3.57	16.81
run1	11/16/2013	9:14:45	3.50	16.83
run1	11/16/2013	9:15:00	3.40	16.91
run1	11/16/2013	9:15:15	3.44	16.93
run1	11/16/2013	9:15:30	3.34	16.96
run1	11/16/2013	9:15:45	3.31	17.07
run1	11/16/2013	9:16:00	3.24	17.12
run1	11/16/2013	9:16:15	3.14	17.17
run1	11/16/2013	9:16:30	2.99	17.23
run1	11/16/2013	9:16:45	3.09	17.34
run1	11/16/2013	9:17:00	3.15	17.29
run1	11/16/2013	9:17:15	3.06	17.28
run1	11/16/2013	9:17:30	3.04	17.31
run1	11/16/2013	9:17:45	3.11	17.29
run1	11/16/2013	9:18:00	3.02	17.29
run1	11/16/2013	9:18:15	3.04	17.36
run1	11/16/2013	9:18:30	3.11	17.35
run1	11/16/2013	9:18:45	3.34	17.21
run1	11/16/2013	9:19:00	3.52	16.98
run1	11/16/2013	9:19:15	3.46	16.89
run1	11/16/2013	9:19:30	3.30	16.96
run1	11/16/2013	9:19:45	3.43	17.05
run1	11/16/2013	9:20:00	3.47	16.93
run1	11/16/2013	9:20:15	3.48	16.87
run1	11/16/2013	9:20:30	3.21	16.94
run1	11/16/2013	9:20:45	3.18	17.16
run1	11/16/2013	9:21:00	3.42	17.16
run1	11/16/2013	9:21:15	3.49	16.91
run1	11/16/2013	9:21:30	3.51	16.83
run1	11/16/2013	9:21:45	3.46	16.86
run1	11/16/2013	9:22:00	3.37	16.93
run1	11/16/2013	9:22:15	3.48	16.99
run1	11/16/2013	9:22:30	3.57	16.85
run1	11/16/2013	9:22:45	3.67	16.72
run1	11/16/2013	9:23:00	3.68	16.68
run1	11/16/2013	9:23:15	3.44	16.72

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run1	11/16/2013	9:23:30	3.22	16.93
run1	11/16/2013	9:23:45	3.51	16.99
run1	11/16/2013	9:24:00	3.61	16.80
run1	11/16/2013	9:24:15	3.51	16.73
run1	11/16/2013	9:24:30	3.19	16.89
run1	11/16/2013	9:24:45	3.05	17.15
run1	11/16/2013	9:25:00	3.15	17.23
run1	11/16/2013	9:25:15	3.45	17.09
run1	11/16/2013	9:25:30	3.48	16.91
run1	11/16/2013	9:25:45	3.40	16.89
run1	11/16/2013	9:26:00	3.36	16.95
run1	11/16/2013	9:26:15	3.30	16.92
run1	11/16/2013	9:26:30	3.21	17.00
run1	11/16/2013	9:26:45	3.23	17.10
run1	11/16/2013	9:27:00	3.22	17.13
run1	11/16/2013	9:27:15	3.20	17.14
run1	11/16/2013	9:27:30	3.16	17.11
run1	11/16/2013	9:27:45	3.22	17.09
run1	11/16/2013	9:28:00	3.34	17.07
run1	11/16/2013	9:28:15	3.32	17.02
run1	11/16/2013	9:28:30	3.45	17.01
run1	11/16/2013	9:28:45	3.43	16.88
run1	11/16/2013	9:29:00	3.39	16.83
run1	11/16/2013	9:29:15	3.26	16.95
run1	11/16/2013	9:29:30	3.34	17.05
run1	11/16/2013	9:29:45	3.40	16.98
run1	11/16/2013	9:30:00	3.37	16.93
run1	11/16/2013	9:30:15	3.49	16.88
run1	11/16/2013	9:30:30	3.39	16.83
run1	11/16/2013	9:30:45	3.36	16.92
run1	11/16/2013	9:31:00	3.34	16.98
run1	11/16/2013	9:31:15	3.31	16.99
run1	11/16/2013	9:31:30	3.41	16.91
run1	11/16/2013	9:31:45	3.39	16.90
run1	11/16/2013	9:32:00	3.50	16.91
run1	11/16/2013	9:32:15	3.51	16.83
run1	11/16/2013	9:32:30	3.48	16.79
run1	11/16/2013	9:32:45	3.37	16.79
run1	11/16/2013	9:33:00	3.22	16.92
run1	11/16/2013	9:33:15	3.11	17.11
run1	11/16/2013	9:33:30	3.12	17.20
run1	11/16/2013	9:33:45	3.29	17.15
run1	11/16/2013	9:34:00	3.16	17.03
run1	11/16/2013	9:34:15	3.12	17.11
run1	11/16/2013	9:34:30	3.43	17.12
run1	11/16/2013	9:34:45	3.60	16.88
run1	11/16/2013	9:35:00	3.44	16.75
run1	11/16/2013	9:35:15	3.32	16.84
run1	11/16/2013	9:35:30	3.41	16.93
run1	11/16/2013	9:35:45	3.35	16.93
run1	11/16/2013	9:36:00	3.19	17.01
run1	11/16/2013	9:36:15	3.22	17.11
run1	11/16/2013	9:36:30	3.36	17.00
run1	11/16/2013	9:36:45	3.26	16.95
run1	11/16/2013	9:37:00	3.27	17.03
run1	11/16/2013	9:37:15	3.38	17.03
run1	11/16/2013	9:37:30	3.37	16.99
run1	11/16/2013	9:37:45	3.45	16.89
run1	11/16/2013	9:38:00	3.57	16.83
run1	11/16/2013	9:38:15	3.58	16.74
run1	11/16/2013	9:38:30	3.60	16.72
run1	11/16/2013	9:38:45	3.59	16.71
run1	11/16/2013	9:39:00	3.66	16.62
run1	11/16/2013	9:39:15	3.56	16.66
run1	11/16/2013	9:39:30	3.41	16.79
run1	11/16/2013	9:39:45	3.30	16.92
run1	11/16/2013	9:40:00	3.47	16.95
run1	11/16/2013	9:40:15	3.63	16.82
run1	11/16/2013	9:40:30	3.58	16.71
run1	11/16/2013	9:40:45	3.59	16.73
run1	11/16/2013	9:41:00	3.62	16.72
run1	11/16/2013	9:41:15	3.76	16.62
run1	11/16/2013	9:41:30	3.81	16.50
run1	11/16/2013	9:41:45	3.91	16.47
run1	11/16/2013	9:42:00	3.78	16.43
run1	11/16/2013	9:42:15	3.65	16.53
run1	11/16/2013	9:42:30	3.60	16.61
run1	11/16/2013	9:42:45	3.49	16.68
run1	11/16/2013	9:43:00	3.47	16.78
run1	11/16/2013	9:43:15	3.42	16.84
run1	11/16/2013	9:43:30	3.47	16.90
run1	11/16/2013	9:43:45	3.65	16.76
run1	11/16/2013	9:44:00	3.61	16.64
run1	11/16/2013	9:44:15	3.47	16.71
run1	11/16/2013	9:44:30	3.60	16.80
run1	11/16/2013	9:44:45	3.49	16.71
run1	11/16/2013	9:45:00	3.33	16.77
run1	11/16/2013	9:45:15	3.15	16.98
run1	11/16/2013	9:45:30	3.01	17.19
run1	11/16/2013	9:45:45	3.11	17.25
run1	11/16/2013	9:46:00	3.06	17.20
run1	11/16/2013	9:46:15	2.98	17.20
run1	11/16/2013	9:46:30	2.96	17.31
run1	11/16/2013	9:46:45	2.99	17.36
run1	11/16/2013	9:47:00	3.11	17.31
run1	11/16/2013	9:47:15	3.35	17.16
run1	11/16/2013	9:47:30	3.44	16.93
run1	11/16/2013	9:47:45	3.32	16.89

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run1	11/16/2013	9:48:00	3.33	16.98
run1	11/16/2013	9:48:15	3.44	16.95
run1	11/16/2013	9:48:30	3.34	16.85
run1	11/16/2013	9:48:45	3.29	16.91
run1	11/16/2013	9:49:00	3.33	16.97
run1	11/16/2013	9:49:15	3.43	16.97
run1	11/16/2013	9:49:30	3.53	16.89
run1	11/16/2013	9:49:45	3.73	16.69
run1	11/16/2013	9:50:00	3.63	16.55
run1	11/16/2013	9:50:15	3.43	16.67
run1	11/16/2013	9:50:30	3.41	16.85
run1	11/16/2013	9:50:45	3.45	16.89
run1	11/16/2013	9:51:00	3.46	16.79
run1	11/16/2013	9:51:15	3.32	16.80
run1	11/16/2013	9:51:30	3.41	16.91
run1	11/16/2013	9:51:45	3.33	16.93
run1	11/16/2013	9:52:00	3.25	16.99
run1	11/16/2013	9:52:15	3.41	16.96
run1	11/16/2013	9:52:30	3.49	16.82
run1	11/16/2013	9:52:45	3.48	16.78
run1	11/16/2013	9:53:00	3.46	16.79
run1	11/16/2013	9:53:15	3.43	16.81
run1	11/16/2013	9:53:30	3.34	16.82
run1	11/16/2013	9:53:45	3.22	16.90
run1	11/16/2013	9:54:00	3.23	17.03
run1	11/16/2013	9:54:15	3.30	17.05
run1	11/16/2013	9:54:30	3.43	16.97
run1	11/16/2013	9:54:45	3.35	16.83
run1	11/16/2013	9:55:00	3.28	16.88
run1	11/16/2013	9:55:15	3.18	16.99
run1	11/16/2013	9:55:30	3.36	17.05
run1	11/16/2013	9:55:45	3.31	16.99
run1	11/16/2013	9:56:00	3.31	16.91
run1	11/16/2013	9:56:15	3.26	16.90
run1	11/16/2013	9:56:30	3.04	17.03
run1	11/16/2013	9:56:45	3.04	17.20
run1	11/16/2013	9:57:00	3.11	17.21
run1	11/16/2013	9:57:15	3.32	17.07
run1	11/16/2013	9:57:30	3.54	16.87
run1	11/16/2013	9:57:45	3.75	16.69
run1	11/16/2013	9:58:00	3.56	16.55
run1	11/16/2013	9:58:15	3.34	16.71
run1	11/16/2013	9:58:30	3.33	16.83
run1	11/16/2013	9:58:45	3.20	16.90
run1	11/16/2013	9:59:00	3.10	17.05
run1	11/16/2013	9:59:15	3.22	17.11
run1	11/16/2013	9:59:30	3.37	17.00
run1	11/16/2013	9:59:45	3.46	16.82
run1	11/16/2013	10:00:00	3.44	16.74
run1	11/16/2013	10:00:15	3.52	16.77
run1	11/16/2013	10:00:30	3.55	16.73
run1	11/16/2013	10:00:45	3.54	16.69
run1	11/16/2013	10:01:00	3.46	16.65
run1	11/16/2013	10:01:15	3.38	16.74
run1	11/16/2013	10:01:30	3.47	16.82
run1	11/16/2013	10:01:45	3.53	16.77
run1	11/16/2013	10:02:00	3.45	16.71
run1	11/16/2013	10:02:15	3.36	16.75
run1	11/16/2013	10:02:30	3.32	16.86
run1	11/16/2013	10:02:45	3.29	16.90
averun1	11/16/2013	9:01:00	3.36	16.97
scg1	11/16/2013	10:03:00	3.31	16.94 CC281765/cg1
scg1	11/16/2013	10:03:15	3.27	16.94 CC281765/cg1
scg1	11/16/2013	10:03:30	3.29	16.90 CC281765/cg1
scg1	11/16/2013	10:03:45	2.16	14.34 CC281765/cg1
scg1	11/16/2013	10:04:00	0.09	4.95 CC281765/cg1
scg1	11/16/2013	10:04:15	0.07	0.94 CC281765/cg1
scg1	11/16/2013	10:04:30	0.02	0.20 CC281765/cg1
scg1	11/16/2013	10:04:45	0.05	0.11 CC281765/cg1
scg1	11/16/2013	10:05:00	0.04	0.08 CC281765/cg1
scg1	11/16/2013	10:05:15	0.01	0.07 CC281765/cg1
scg1	11/16/2013	10:05:30	0.03	0.06 CC281765/cg1
scg1	11/16/2013	10:05:45	0.05	0.05 CC281765/cg1
scg1	11/16/2013	10:06:00	0.02	0.05 CC281765/cg1
scg1	11/16/2013	10:06:15	0.05	0.04 CC281765/cg1
cozero1	11/16/2013	10:05:45	0.05	0.05 CC281765/cg1
co2zero1	11/16/2013	10:05:45	0.05	0.05 CC281765/cg1
o2zero1	11/16/2013	10:05:45	0.05	0.05 CC281765/cg1
scg5	11/16/2013	10:06:30	0.01	0.03 CC427756/cg5
scg5	11/16/2013	10:06:45	0.00	0.03 CC427756/cg5
scg5	11/16/2013	10:07:00	0.06	0.02 CC427756/cg5
scg5	11/16/2013	10:07:15	2.71	0.14 CC427756/cg5
scg5	11/16/2013	10:07:30	9.41	3.22 CC427756/cg5
scg5	11/16/2013	10:07:45	9.87	7.49 CC427756/cg5
scg5	11/16/2013	10:08:00	9.89	9.07 CC427756/cg5
o2span1	11/16/2013	10:08:00	9.89	9.07 CC427756/cg5
scg6	11/16/2013	10:08:15	9.93	9.43 CC365323/cg6
scg6	11/16/2013	10:08:30	9.93	9.49 CC365323/cg6
scg6	11/16/2013	10:08:45	9.74	9.52 CC365323/cg6
scg6	11/16/2013	10:09:00	10.05	9.56 CC365323/cg6
scg6	11/16/2013	10:09:15	17.93	10.57 CC365323/cg6
scg6	11/16/2013	10:09:30	20.11	15.27 CC365323/cg6
scg6	11/16/2013	10:09:45	20.18	17.59 CC365323/cg6
scg6	11/16/2013	10:10:00	20.21	18.52 CC365323/cg6
scg6	11/16/2013	10:10:15	20.20	18.72 CC365323/cg6
scg6	11/16/2013	10:10:30	20.22	18.78 CC365323/cg6
co2span1	11/16/2013	10:10:30	20.22	18.78 CC365323/cg6
scg7	11/16/2013	10:10:45	20.22	18.76 CC334442/cg7

name	O2			CO2								
sn	1009241630			1009241630								
offset	0			0								
fullscale	100			20								
train	1			1								
gastype	o2 3a			co2 3a								
scg7	11/16/2013	10:11:00	20.22	18.74	CC334442/cg7	CO	45.96	0	0	0	0	
scg7	11/16/2013	10:11:15	20.23	18.79	CC334442/cg7	CO	45.96	0	0	0	0	
scg7	11/16/2013	10:11:30	20.21	18.83	CC334442/cg7	CO	45.96	0	0	0	0	
scg7	11/16/2013	10:11:45	11.08	17.84	CC334442/cg7	CO	45.96	0	0	0	0	
scg7	11/16/2013	10:12:00	0.43	9.07	CC334442/cg7	CO	45.96	0	0	0	0	
scg7	11/16/2013	10:12:15	0.19	2.03	CC334442/cg7	CO	45.96	0	0	0	0	
scg7	11/16/2013	10:12:30	0.12	0.39	CC334442/cg7	CO	45.96	0	0	0	0	
scg7	11/16/2013	10:12:45	0.12	0.22	CC334442/cg7	CO	45.96	0	0	0	0	
scg7	11/16/2013	10:13:00	0.10	0.16	CC334442/cg7	CO	45.96	0	0	0	0	
cospan1	11/16/2013	10:13:00	0.10	0.16	CC334442/cg7	CO	45.96	0	0	0	0	
run21	11/16/2013	10:14:15	3.04	4.13								
run21	11/16/2013	10:14:30	3.33	13.64								
run21	11/16/2013	10:14:45	3.42	16.13								
run2	11/16/2013	10:15:00	3.54	16.61								
run2	11/16/2013	10:15:15	3.54	16.65								
run2	11/16/2013	10:15:30	3.39	16.71								
run2	11/16/2013	10:15:45	3.30	16.79								
run2	11/16/2013	10:16:00	3.32	16.87								
run2	11/16/2013	10:16:15	3.36	16.90								
run2	11/16/2013	10:16:30	3.38	16.88								
run2	11/16/2013	10:16:45	3.33	16.87								
run2	11/16/2013	10:17:00	3.32	16.88								
run2	11/16/2013	10:17:15	3.38	16.88								
run2	11/16/2013	10:17:30	3.26	16.92								
run2	11/16/2013	10:17:45	3.13	17.04								
run2	11/16/2013	10:18:00	3.26	17.08								
run2	11/16/2013	10:18:15	3.45	16.95								
run2	11/16/2013	10:18:30	3.40	16.83								
run2	11/16/2013	10:18:45	3.41	16.85								
run2	11/16/2013	10:19:00	3.38	16.90								
run2	11/16/2013	10:19:15	3.47	16.89								
run2	11/16/2013	10:19:30	3.49	16.77								
run2	11/16/2013	10:19:45	3.48	16.76								
run2	11/16/2013	10:20:00	3.51	16.78								
run2	11/16/2013	10:20:15	3.48	16.78								
run2	11/16/2013	10:20:30	3.43	16.80								
run2	11/16/2013	10:20:45	3.49	16.78								
run2	11/16/2013	10:21:00	3.46	16.78								
run2	11/16/2013	10:21:15	3.41	16.83								
run2	11/16/2013	10:21:30	3.44	16.89								
run2	11/16/2013	10:21:45	3.62	16.80								
run2	11/16/2013	10:22:00	3.71	16.60								
run2	11/16/2013	10:22:15	3.83	16.52								
run2	11/16/2013	10:22:30	3.62	16.50								
run2	11/16/2013	10:22:45	3.61	16.62								
run2	11/16/2013	10:23:00	3.66	16.64								
run2	11/16/2013	10:23:15	3.65	16.57								
run2	11/16/2013	10:23:30	3.50	16.62								
run2	11/16/2013	10:23:45	3.51	16.73								
run2	11/16/2013	10:24:00	3.56	16.74								
run2	11/16/2013	10:24:15	3.65	16.66								
run2	11/16/2013	10:24:30	3.68	16.57								
run2	11/16/2013	10:24:45	3.56	16.60								
run2	11/16/2013	10:25:00	3.38	16.72								
run2	11/16/2013	10:25:15	3.15	16.92								
run2	11/16/2013	10:25:30	3.22	17.04								
run2	11/16/2013	10:25:45	3.23	17.04								
run2	11/16/2013	10:26:00	3.29	17.03								
run2	11/16/2013	10:26:15	3.23	17.02								
run2	11/16/2013	10:26:30	3.22	17.03								
run2	11/16/2013	10:26:45	3.26	17.02								
run2	11/16/2013	10:27:00	3.32	16.98								
run2	11/16/2013	10:27:15	3.46	16.94								
run2	11/16/2013	10:27:30	3.48	16.84								
run2	11/16/2013	10:27:45	3.31	16.83								
run2	11/16/2013	10:28:00	3.28	16.90								
run2	11/16/2013	10:28:15	3.45	16.93								
run2	11/16/2013	10:28:30	3.68	16.79								
run2	11/16/2013	10:28:45	3.70	16.61								
run2	11/16/2013	10:29:00	3.64	16.58								
run2	11/16/2013	10:29:15	3.61	16.56								
run2	11/16/2013	10:29:30	3.62	16.61								
run2	11/16/2013	10:29:45	3.67	16.63								
run2	11/16/2013	10:30:00	3.62	16.62								
run2	11/16/2013	10:30:15	3.55	16.65								
run2	11/16/2013	10:30:30	3.52	16.66								
run2	11/16/2013	10:30:45	3.37	16.71								
run2	11/16/2013	10:31:00	3.43	16.84								
run2	11/16/2013	10:31:15	3.42	16.84								
run2	11/16/2013	10:31:30	3.42	16.84								
run2	11/16/2013	10:31:45	3.27	16.84								
run2	11/16/2013	10:32:00	3.21	16.92								
run2	11/16/2013	10:32:15	3.24	17.04								
run2	11/16/2013	10:32:30	3.25	17.02								
run2	11/16/2013	10:32:45	3.06	17.05								
run2	11/16/2013	10:33:00	2.91	17.16								
run2	11/16/2013	10:33:15	2.93	17.25								
run2	11/16/2013	10:33:30	3.15	17.29								
run2	11/16/2013	10:33:45	3.21	17.14								
run2	11/16/2013	10:34:00	3.12	17.07								
run2	11/16/2013	10:34:15	3.29	17.05								
run2	11/16/2013	10:34:30	3.46	16.89								
run2	11/16/2013	10:34:45	3.67	16.76								
run2	11/16/2013	10:35:00	3.61	16.62								
run2	11/16/2013	10:35:15	3.54	16.62								
run2	11/16/2013	10:35:30	3.39	16.68								
run2	11/16/2013	10:35:45	3.21	16.83								
run2	11/16/2013	10:36:00	3.12	17.06								

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run2	11/16/2013	10:36:15	3.26	17.08
run2	11/16/2013	10:36:30	3.24	17.03
run2	11/16/2013	10:36:45	3.43	16.90
run2	11/16/2013	10:37:00	3.55	16.79
run2	11/16/2013	10:37:15	3.65	16.70
run2	11/16/2013	10:37:30	3.48	16.63
run2	11/16/2013	10:37:45	3.41	16.74
run2	11/16/2013	10:38:00	3.52	16.74
run2	11/16/2013	10:38:15	3.64	16.64
run2	11/16/2013	10:38:30	3.69	16.57
run2	11/16/2013	10:38:45	3.61	16.57
run2	11/16/2013	10:39:00	3.45	16.65
run2	11/16/2013	10:39:15	3.36	16.72
run2	11/16/2013	10:39:30	3.48	16.78
run2	11/16/2013	10:39:45	3.53	16.75
run2	11/16/2013	10:40:00	3.43	16.74
run2	11/16/2013	10:40:15	3.48	16.75
run2	11/16/2013	10:40:30	3.57	16.68
run2	11/16/2013	10:40:45	3.60	16.62
run2	11/16/2013	10:41:00	3.56	16.66
run2	11/16/2013	10:41:15	3.75	16.64
run2	11/16/2013	10:41:30	3.85	16.48
run2	11/16/2013	10:41:45	3.68	16.39
run2	11/16/2013	10:42:00	3.54	16.52
run2	11/16/2013	10:42:15	3.56	16.66
run2	11/16/2013	10:42:30	3.48	16.70
run2	11/16/2013	10:42:45	3.54	16.75
run2	11/16/2013	10:43:00	3.68	16.63
run2	11/16/2013	10:43:15	3.67	16.52
run2	11/16/2013	10:43:30	3.48	16.61
run2	11/16/2013	10:43:45	3.40	16.75
run2	11/16/2013	10:44:00	3.37	16.83
run2	11/16/2013	10:44:15	3.51	16.84
run2	11/16/2013	10:44:30	3.67	16.69
run2	11/16/2013	10:44:45	3.63	16.60
run2	11/16/2013	10:45:00	3.39	16.69
run2	11/16/2013	10:45:15	3.36	16.82
run2	11/16/2013	10:45:30	3.30	16.85
run2	11/16/2013	10:45:45	3.28	16.92
run2	11/16/2013	10:46:00	3.26	16.99
run2	11/16/2013	10:46:15	3.37	17.01
run2	11/16/2013	10:46:30	3.53	16.86
run2	11/16/2013	10:46:45	3.54	16.67
run2	11/16/2013	10:47:00	3.50	16.71
run2	11/16/2013	10:47:15	3.64	16.73
run2	11/16/2013	10:47:30	3.72	16.63
run2	11/16/2013	10:47:45	3.84	16.52
run2	11/16/2013	10:48:00	3.78	16.39
run2	11/16/2013	10:48:15	3.64	16.48
run2	11/16/2013	10:48:30	3.48	16.66
run2	11/16/2013	10:48:45	3.32	16.81
run2	11/16/2013	10:49:00	3.33	16.90
run2	11/16/2013	10:49:15	3.42	16.89
run2	11/16/2013	10:49:30	3.28	16.88
run2	11/16/2013	10:49:45	3.23	16.99
run2	11/16/2013	10:50:00	3.27	17.05
run2	11/16/2013	10:50:15	3.11	17.02
run2	11/16/2013	10:50:30	3.16	17.11
run2	11/16/2013	10:50:45	3.39	17.10
run2	11/16/2013	10:51:00	3.55	16.88
run2	11/16/2013	10:51:15	3.40	16.77
run2	11/16/2013	10:51:30	3.41	16.80
run2	11/16/2013	10:51:45	3.26	16.85
run2	11/16/2013	10:52:00	3.32	16.99
run2	11/16/2013	10:52:15	3.35	16.95
run2	11/16/2013	10:52:30	3.20	16.95
run2	11/16/2013	10:52:45	3.15	17.03
run2	11/16/2013	10:53:00	3.14	17.11
run2	11/16/2013	10:53:15	3.16	17.12
run2	11/16/2013	10:53:30	3.33	17.10
run2	11/16/2013	10:53:45	3.46	16.93
run2	11/16/2013	10:54:00	3.32	16.80
run2	11/16/2013	10:54:15	3.21	16.95
run2	11/16/2013	10:54:30	3.24	17.07
run2	11/16/2013	10:54:45	3.33	17.04
run2	11/16/2013	10:55:00	3.48	16.90
run2	11/16/2013	10:55:15	3.43	16.80
run2	11/16/2013	10:55:30	3.09	16.95
run2	11/16/2013	10:55:45	3.21	17.13
run2	11/16/2013	10:56:00	3.52	17.02
run2	11/16/2013	10:56:15	3.65	16.73
run2	11/16/2013	10:56:30	3.64	16.64
run2	11/16/2013	10:56:45	3.54	16.66
run2	11/16/2013	10:57:00	3.39	16.75
run2	11/16/2013	10:57:15	3.23	16.88
run2	11/16/2013	10:57:30	3.24	16.97
run2	11/16/2013	10:57:45	3.22	17.01
run2	11/16/2013	10:58:00	3.21	17.09
run2	11/16/2013	10:58:15	3.11	17.11
run2	11/16/2013	10:58:30	3.32	17.10
run2	11/16/2013	10:58:45	3.49	16.92
run2	11/16/2013	10:59:00	3.49	16.77
run2	11/16/2013	10:59:15	3.34	16.82
run2	11/16/2013	10:59:30	3.24	16.94
run2	11/16/2013	10:59:45	3.24	16.97
run2	11/16/2013	11:00:00	3.28	16.96
run2	11/16/2013	11:00:15	3.00	17.07
run2	11/16/2013	11:00:30	3.00	17.21

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run2	11/16/2013	11:00:45	3.00	17.28
run2	11/16/2013	11:01:00	3.31	17.16
run2	11/16/2013	11:01:15	3.45	16.93
run2	11/16/2013	11:01:30	3.52	16.79
run2	11/16/2013	11:01:45	3.60	16.71
run2	11/16/2013	11:02:00	3.67	16.64
run2	11/16/2013	11:02:15	3.64	16.57
run2	11/16/2013	11:02:30	3.45	16.60
run2	11/16/2013	11:02:45	3.42	16.75
run2	11/16/2013	11:03:00	3.43	16.83
run2	11/16/2013	11:03:15	3.35	16.82
run2	11/16/2013	11:03:30	3.42	16.85
run2	11/16/2013	11:03:45	3.57	16.78
run2	11/16/2013	11:04:00	3.49	16.74
run2	11/16/2013	11:04:15	3.41	16.76
run2	11/16/2013	11:04:30	3.52	16.72
run2	11/16/2013	11:04:45	3.40	16.72
run2	11/16/2013	11:05:00	3.25	16.86
run2	11/16/2013	11:05:15	3.36	16.98
run2	11/16/2013	11:05:30	3.48	16.85
run2	11/16/2013	11:05:45	3.38	16.74
run2	11/16/2013	11:06:00	3.40	16.82
run2	11/16/2013	11:06:15	3.46	16.83
run2	11/16/2013	11:06:30	3.40	16.82
run2	11/16/2013	11:06:45	3.30	16.85
run2	11/16/2013	11:07:00	3.29	16.88
run2	11/16/2013	11:07:15	3.38	16.93
run2	11/16/2013	11:07:30	3.64	16.82
run2	11/16/2013	11:07:45	3.55	16.65
run2	11/16/2013	11:08:00	3.36	16.68
run2	11/16/2013	11:08:15	3.32	16.81
run2	11/16/2013	11:08:30	3.32	16.90
run2	11/16/2013	11:08:45	3.26	16.92
run2	11/16/2013	11:09:00	3.21	16.97
run2	11/16/2013	11:09:15	3.25	17.00
run2	11/16/2013	11:09:30	3.17	16.96
run2	11/16/2013	11:09:45	3.21	16.99
run2	11/16/2013	11:10:00	3.18	17.04
run2	11/16/2013	11:10:15	3.31	17.05
run2	11/16/2013	11:10:30	3.38	16.91
run2	11/16/2013	11:10:45	3.34	16.81
run2	11/16/2013	11:11:00	3.25	16.89
run2	11/16/2013	11:11:15	3.36	16.93
run2	11/16/2013	11:11:30	3.39	16.85
run2	11/16/2013	11:11:45	3.25	16.82
run2	11/16/2013	11:12:00	3.07	16.96
run2	11/16/2013	11:12:15	3.20	17.09
run2	11/16/2013	11:12:30	3.39	17.00
run2	11/16/2013	11:12:45	3.61	16.79
run2	11/16/2013	11:13:00	3.64	16.57
run2	11/16/2013	11:13:15	3.76	16.52
run2	11/16/2013	11:13:30	3.55	16.47
run2	11/16/2013	11:13:45	3.40	16.63
run2	11/16/2013	11:14:00	3.40	16.76
run2	11/16/2013	11:14:15	3.18	16.79
run2	11/16/2013	11:14:30	2.95	17.01
run2	11/16/2013	11:14:45	2.89	17.24
run2	11/16/2013	11:15:00	2.99	17.28
run2	11/16/2013	11:15:15	3.03	17.23
run2	11/16/2013	11:15:30	2.98	17.12
run2	11/16/2013	11:15:45	2.96	17.15
run2	11/16/2013	11:16:00	3.22	17.19
run2	11/16/2013	11:16:15	3.42	16.98
run2	11/16/2013	11:16:30	3.42	16.84
run2	11/16/2013	11:16:45	3.42	16.71
run2	11/16/2013	11:17:00	3.44	16.64
run2	11/16/2013	11:17:15	3.38	16.76
run2	11/16/2013	11:17:30	3.37	16.86
run2	11/16/2013	11:17:45	3.46	16.85
run2	11/16/2013	11:18:00	3.53	16.69
run2	11/16/2013	11:18:15	3.45	16.69
run2	11/16/2013	11:18:30	3.50	16.76
run2	11/16/2013	11:18:45	3.45	16.75
run2	11/16/2013	11:19:00	3.36	16.75
run2	11/16/2013	11:19:15	3.26	16.84
run2	11/16/2013	11:19:30	3.33	16.96
run2	11/16/2013	11:19:45	3.42	16.91
run2	11/16/2013	11:20:00	3.48	16.80
run2	11/16/2013	11:20:15	3.32	16.76
run2	11/16/2013	11:20:30	3.34	16.85
run2	11/16/2013	11:20:45	3.29	16.90
run2	11/16/2013	11:21:00	3.26	16.96
run2	11/16/2013	11:21:15	3.36	16.96
run2	11/16/2013	11:21:30	3.53	16.82
run2	11/16/2013	11:21:45	3.70	16.64
run2	11/16/2013	11:22:00	3.65	16.57
run2	11/16/2013	11:22:15	3.62	16.59
run2	11/16/2013	11:22:30	3.57	16.64
run2	11/16/2013	11:22:45	3.65	16.59
run2	11/16/2013	11:23:00	3.70	16.54
run2	11/16/2013	11:23:15	3.62	16.56
run2	11/16/2013	11:23:30	3.67	16.58
run2	11/16/2013	11:23:45	3.76	16.57
run2	11/16/2013	11:24:00	3.93	16.38
run2	11/16/2013	11:24:15	3.88	16.28
run2	11/16/2013	11:24:30	3.79	16.33
run2	11/16/2013	11:24:45	3.57	16.48
run2	11/16/2013	11:25:00	3.47	16.67

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run2	11/16/2013	11:25:15	3.45	16.72
run2	11/16/2013	11:25:30	3.22	16.78
run2	11/16/2013	11:25:45	3.00	17.01
run2	11/16/2013	11:26:00	2.95	17.25
run2	11/16/2013	11:26:15	3.07	17.25
run2	11/16/2013	11:26:30	3.21	17.09
run2	11/16/2013	11:26:45	3.17	17.03
run2	11/16/2013	11:27:00	3.31	17.03
run2	11/16/2013	11:27:15	3.36	16.96
run2	11/16/2013	11:27:30	3.44	16.88
run2	11/16/2013	11:27:45	3.59	16.74
run2	11/16/2013	11:28:00	3.53	16.67
run2	11/16/2013	11:28:15	3.45	16.72
run2	11/16/2013	11:28:30	3.63	16.74
run2	11/16/2013	11:28:45	3.57	16.60
run2	11/16/2013	11:29:00	3.46	16.61
run2	11/16/2013	11:29:15	3.25	16.77
run2	11/16/2013	11:29:30	3.31	16.95
run2	11/16/2013	11:29:45	3.48	16.87
run2	11/16/2013	11:30:00	3.41	16.74
run2	11/16/2013	11:30:15	3.28	16.80
run2	11/16/2013	11:30:30	3.24	16.97
run2	11/16/2013	11:30:45	3.43	16.96
run2	11/16/2013	11:31:00	3.41	16.79
run2	11/16/2013	11:31:15	3.46	16.76
run2	11/16/2013	11:31:30	3.63	16.70
run2	11/16/2013	11:31:45	3.55	16.64
run2	11/16/2013	11:32:00	3.57	16.66
run2	11/16/2013	11:32:15	3.54	16.61
averun2	11/16/2013	10:25:00	3.40	16.83
scg7	11/16/2013	11:32:30	3.44	16.66 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:32:45	3.46	16.77 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:33:00	3.54	16.76 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:33:15	3.15	15.71 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:33:30	0.22	6.99 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:33:45	0.03	1.27 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:34:00	0.03	0.24 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:34:15	0.01	0.12 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:34:30	0.00	0.07 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:34:45	0.01	0.06 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:35:00	-0.01	0.05 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:35:15	0.02	0.04 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:35:30	0.02	0.03 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:35:45	0.00	0.02 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:36:00	0.00	0.02 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:36:15	-0.01	0.02 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:36:30	0.03	0.01 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:36:45	0.00	0.01 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:37:00	0.00	0.00 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:37:15	-0.01	0.00 CC334442/cg7 CO 45.96 0 0 0
scg7	11/16/2013	11:37:30	0.00	0.00 CC334442/cg7 CO 45.96 0 0 0
cospan1	11/16/2013	11:37:30	0.00	0.00 CC334442/cg7 CO 45.96 0 0 0
scg6	11/16/2013	11:37:45	-0.01	0.00 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:38:00	-0.01	0.00 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:38:15	0.00	0.00 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:38:30	2.35	0.00 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:38:45	18.31	4.31 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:39:00	20.05	14.42 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:39:15	20.12	17.44 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:39:30	20.16	18.47 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:39:45	20.14	18.69 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg6	11/16/2013	11:40:00	20.15	18.77 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
co2span1	11/16/2013	11:40:00	20.15	18.77 CC365323/cg6 O2 20.37 CO2 19.07 0 0 0
scg5	11/16/2013	11:40:15	20.16	18.78 CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/16/2013	11:40:30	20.16	18.74 CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/16/2013	11:40:45	20.19	18.78 CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/16/2013	11:41:00	20.18	18.84 CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/16/2013	11:41:15	15.64	18.52 CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/16/2013	11:41:30	9.99	13.91 CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg5	11/16/2013	11:41:45	9.95	10.04 CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
o2span1	11/16/2013	11:41:45	9.95	10.04 CC427756/cg5 O2 10.03 CO2 9.624 0 0 0
scg1	11/16/2013	11:42:00	9.92	9.67 CC281765/cg1 CO 0 0 CO2 0 02 0
scg1	11/16/2013	11:42:15	9.91	9.68 CC281765/cg1 CO 0 0 CO2 0 02 0
scg1	11/16/2013	11:42:30	9.90	9.67 CC281765/cg1 CO 0 0 CO2 0 02 0
scg1	11/16/2013	11:42:45	9.44	9.62 CC281765/cg1 CO 0 0 CO2 0 02 0
scg1	11/16/2013	11:43:00	1.28	7.56 CC281765/cg1 CO 0 0 CO2 0 02 0
scg1	11/16/2013	11:43:15	0.11	2.57 CC281765/cg1 CO 0 0 CO2 0 02 0
scg1	11/16/2013	11:43:30	0.07	0.40 CC281765/cg1 CO 0 0 CO2 0 02 0
scg1	11/16/2013	11:43:45	0.06	0.16 CC281765/cg1 CO 0 0 CO2 0 02 0
cozero1	11/16/2013	11:43:45	0.06	0.16 CC281765/cg1 CO 0 0 CO2 0 02 0
co2zero1	11/16/2013	11:43:45	0.06	0.16 CC281765/cg1 CO 0 0 CO2 0 02 0
o2zero1	11/16/2013	11:43:45	0.06	0.16 CC281765/cg1 CO 0 0 CO2 0 02 0
run3l	11/16/2013	11:44:30	-0.03	0.06
run3l	11/16/2013	11:44:45	-0.26	0.04
run3l	11/16/2013	11:45:00	1.91	1.21
run3l	11/16/2013	11:45:15	3.40	10.18
run3l	11/16/2013	11:45:30	3.63	15.33
run3	11/16/2013	11:45:45	3.59	16.24
run3	11/16/2013	11:46:00	3.46	16.47
run3	11/16/2013	11:46:15	3.51	16.53
run3	11/16/2013	11:46:30	3.34	16.52
run3	11/16/2013	11:46:45	3.14	16.76
run3	11/16/2013	11:47:00	3.14	17.00
run3	11/16/2013	11:47:15	3.23	17.02
run3	11/16/2013	11:47:30	3.33	16.94
run3	11/16/2013	11:47:45	3.43	16.83
run3	11/16/2013	11:48:00	3.47	16.72
run3	11/16/2013	11:48:15	3.42	16.72

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run3	11/16/2013	11:48:30	3.31	16.79
run3	11/16/2013	11:48:45	3.26	16.84
run3	11/16/2013	11:49:00	3.32	16.87
run3	11/16/2013	11:49:15	3.53	16.82
run3	11/16/2013	11:49:30	3.83	16.61
run3	11/16/2013	11:49:45	3.67	16.45
run3	11/16/2013	11:50:00	3.35	16.58
run3	11/16/2013	11:50:15	3.26	16.78
run3	11/16/2013	11:50:30	3.33	16.87
run3	11/16/2013	11:50:45	3.22	16.89
run3	11/16/2013	11:51:00	3.23	16.98
run3	11/16/2013	11:51:15	3.25	16.99
run3	11/16/2013	11:51:30	3.25	16.92
run3	11/16/2013	11:51:45	3.15	16.94
run3	11/16/2013	11:52:00	3.19	17.05
run3	11/16/2013	11:52:15	3.28	17.02
run3	11/16/2013	11:52:30	3.30	16.95
run3	11/16/2013	11:52:45	3.36	16.89
run3	11/16/2013	11:53:00	3.39	16.78
run3	11/16/2013	11:53:15	3.48	16.78
run3	11/16/2013	11:53:30	3.73	16.71
run3	11/16/2013	11:53:45	3.85	16.49
run3	11/16/2013	11:54:00	3.68	16.35
run3	11/16/2013	11:54:15	3.68	16.50
run3	11/16/2013	11:54:30	3.74	16.52
run3	11/16/2013	11:54:45	3.75	16.48
run3	11/16/2013	11:55:00	3.69	16.44
run3	11/16/2013	11:55:15	3.60	16.47
run3	11/16/2013	11:55:30	3.42	16.61
run3	11/16/2013	11:55:45	3.28	16.80
run3	11/16/2013	11:56:00	3.40	16.90
run3	11/16/2013	11:56:15	3.43	16.77
run3	11/16/2013	11:56:30	3.38	16.75
run3	11/16/2013	11:56:45	3.45	16.82
run3	11/16/2013	11:57:00	3.58	16.77
run3	11/16/2013	11:57:15	3.50	16.65
run3	11/16/2013	11:57:30	3.28	16.71
run3	11/16/2013	11:57:45	3.30	16.88
run3	11/16/2013	11:58:00	3.47	16.92
run3	11/16/2013	11:58:15	3.67	16.76
run3	11/16/2013	11:58:30	3.61	16.58
run3	11/16/2013	11:58:45	3.39	16.59
run3	11/16/2013	11:59:00	3.31	16.78
run3	11/16/2013	11:59:15	3.26	16.90
run3	11/16/2013	11:59:30	3.24	16.98
run3	11/16/2013	11:59:45	3.08	17.03
run3	11/16/2013	12:00:00	2.97	17.10
run3	11/16/2013	12:00:15	3.05	17.22
run3	11/16/2013	12:00:30	3.04	17.20
run3	11/16/2013	12:00:45	3.06	17.18
run3	11/16/2013	12:01:00	3.16	17.15
run3	11/16/2013	12:01:15	3.12	17.07
run3	11/16/2013	12:01:30	3.09	17.10
run3	11/16/2013	12:01:45	3.18	17.14
run3	11/16/2013	12:02:00	3.12	17.11
run3	11/16/2013	12:02:15	2.97	17.13
run3	11/16/2013	12:02:30	3.07	17.19
run3	11/16/2013	12:02:45	3.33	17.11
run3	11/16/2013	12:03:00	3.33	16.97
run3	11/16/2013	12:03:15	3.38	16.94
run3	11/16/2013	12:03:30	3.46	16.81
run3	11/16/2013	12:03:45	3.44	16.74
run3	11/16/2013	12:04:00	3.52	16.77
run3	11/16/2013	12:04:15	3.31	16.79
run3	11/16/2013	12:04:30	3.24	16.92
run3	11/16/2013	12:04:45	3.52	16.88
run3	11/16/2013	12:05:00	3.46	16.74
run3	11/16/2013	12:05:15	3.46	16.77
run3	11/16/2013	12:05:30	3.53	16.76
run3	11/16/2013	12:05:45	3.53	16.66
run3	11/16/2013	12:06:00	3.47	16.63
run3	11/16/2013	12:06:15	3.38	16.73
run3	11/16/2013	12:06:30	3.41	16.83
run3	11/16/2013	12:06:45	3.38	16.81
run3	11/16/2013	12:07:00	3.32	16.83
run3	11/16/2013	12:07:15	3.29	16.87
run3	11/16/2013	12:07:30	3.06	17.00
run3	11/16/2013	12:07:45	2.96	17.17
run3	11/16/2013	12:08:00	2.96	17.24
run3	11/16/2013	12:08:15	2.95	17.23
run3	11/16/2013	12:08:30	3.13	17.24
run3	11/16/2013	12:08:45	3.19	17.14
run3	11/16/2013	12:09:00	3.34	17.08
run3	11/16/2013	12:09:15	3.33	16.91
run3	11/16/2013	12:09:30	3.29	16.91
run3	11/16/2013	12:09:45	3.32	16.93
run3	11/16/2013	12:10:00	3.36	16.93
run3	11/16/2013	12:10:15	3.27	16.90
run3	11/16/2013	12:10:30	3.19	16.93
run3	11/16/2013	12:10:45	3.14	17.03
run3	11/16/2013	12:11:00	3.19	17.10
run3	11/16/2013	12:11:15	3.19	17.04
run3	11/16/2013	12:11:30	3.14	17.04
run3	11/16/2013	12:11:45	3.20	17.04
run3	11/16/2013	12:12:00	3.08	17.06
run3	11/16/2013	12:12:15	3.10	17.17
run3	11/16/2013	12:12:30	3.22	17.11
run3	11/16/2013	12:12:45	3.09	17.01

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run3	11/16/2013	12:13:00	3.21	17.08
run3	11/16/2013	12:13:15	3.30	17.03
run3	11/16/2013	12:13:30	3.20	16.99
run3	11/16/2013	12:13:45	3.10	17.02
run3	11/16/2013	12:14:00	3.00	17.07
run3	11/16/2013	12:14:15	3.08	17.18
run3	11/16/2013	12:14:30	2.98	17.20
run3	11/16/2013	12:14:45	2.95	17.25
run3	11/16/2013	12:15:00	2.98	17.23
run3	11/16/2013	12:15:15	3.03	17.21
run3	11/16/2013	12:15:30	3.24	17.18
run3	11/16/2013	12:15:45	3.21	17.07
run3	11/16/2013	12:16:00	3.04	17.06
run3	11/16/2013	12:16:15	2.96	17.12
run3	11/16/2013	12:16:30	3.03	17.22
run3	11/16/2013	12:16:45	3.11	17.21
run3	11/16/2013	12:17:00	3.15	17.11
run3	11/16/2013	12:17:15	3.14	17.02
run3	11/16/2013	12:17:30	3.14	17.07
run3	11/16/2013	12:17:45	3.00	17.12
run3	11/16/2013	12:18:00	3.05	17.22
run3	11/16/2013	12:18:15	3.11	17.18
run3	11/16/2013	12:18:30	3.06	17.07
run3	11/16/2013	12:18:45	2.97	17.12
run3	11/16/2013	12:19:00	2.97	17.22
run3	11/16/2013	12:19:15	2.93	17.26
run3	11/16/2013	12:19:30	2.88	17.31
run3	11/16/2013	12:19:45	2.89	17.27
run3	11/16/2013	12:20:00	3.15	17.24
run3	11/16/2013	12:20:15	3.48	17.05
run3	11/16/2013	12:20:30	3.50	16.77
run3	11/16/2013	12:20:45	3.48	16.73
run3	11/16/2013	12:21:00	3.48	16.68
run3	11/16/2013	12:21:15	3.27	16.74
run3	11/16/2013	12:21:30	3.16	16.95
run3	11/16/2013	12:21:45	2.91	17.09
run3	11/16/2013	12:22:00	2.77	17.29
run3	11/16/2013	12:22:15	2.98	17.34
run3	11/16/2013	12:22:30	3.10	17.21
run3	11/16/2013	12:22:45	2.86	17.18
run3	11/16/2013	12:23:00	2.72	17.38
run3	11/16/2013	12:23:15	2.78	17.43
run3	11/16/2013	12:23:30	2.82	17.35
run3	11/16/2013	12:23:45	2.75	17.39
run3	11/16/2013	12:24:00	2.94	17.42
run3	11/16/2013	12:24:15	2.96	17.29
run3	11/16/2013	12:24:30	3.13	17.20
run3	11/16/2013	12:24:45	3.16	17.05
run3	11/16/2013	12:25:00	3.14	17.06
run3	11/16/2013	12:25:15	3.28	17.06
run3	11/16/2013	12:25:30	3.44	16.91
run3	11/16/2013	12:25:45	3.56	16.70
run3	11/16/2013	12:26:00	3.66	16.61
run3	11/16/2013	12:26:15	3.66	16.57
run3	11/16/2013	12:26:30	3.66	16.53
run3	11/16/2013	12:26:45	3.51	16.56
run3	11/16/2013	12:27:00	3.24	16.67
run3	11/16/2013	12:27:15	3.21	16.91
run3	11/16/2013	12:27:30	3.29	16.98
run3	11/16/2013	12:27:45	3.28	16.93
run3	11/16/2013	12:28:00	3.35	16.90
run3	11/16/2013	12:28:15	3.36	16.80
run3	11/16/2013	12:28:30	3.33	16.81
run3	11/16/2013	12:28:45	3.34	16.88
run3	11/16/2013	12:29:00	3.45	16.85
run3	11/16/2013	12:29:15	3.25	16.79
run3	11/16/2013	12:29:30	3.02	16.93
run3	11/16/2013	12:29:45	2.99	17.13
run3	11/16/2013	12:30:00	3.03	17.21
run3	11/16/2013	12:30:15	3.01	17.19
run3	11/16/2013	12:30:30	2.92	17.20
run3	11/16/2013	12:30:45	2.77	17.24
run3	11/16/2013	12:31:00	2.84	17.36
run3	11/16/2013	12:31:15	3.19	17.30
run3	11/16/2013	12:31:30	3.44	17.05
run3	11/16/2013	12:31:45	3.49	16.83
run3	11/16/2013	12:32:00	3.47	16.71
run3	11/16/2013	12:32:15	3.40	16.73
run3	11/16/2013	12:32:30	3.38	16.81
run3	11/16/2013	12:32:45	3.35	16.85
run3	11/16/2013	12:33:00	3.40	16.85
run3	11/16/2013	12:33:15	3.47	16.77
run3	11/16/2013	12:33:30	3.38	16.76
run3	11/16/2013	12:33:45	3.42	16.82
run3	11/16/2013	12:34:00	3.34	16.83
run3	11/16/2013	12:34:15	3.42	16.84
run3	11/16/2013	12:34:30	3.41	16.75
run3	11/16/2013	12:34:45	3.44	16.80
run3	11/16/2013	12:35:00	3.52	16.78
run3	11/16/2013	12:35:15	3.48	16.74
run3	11/16/2013	12:35:30	3.36	16.76
run3	11/16/2013	12:35:45	3.37	16.82
run3	11/16/2013	12:36:00	3.36	16.85
run3	11/16/2013	12:36:15	3.20	16.94
run3	11/16/2013	12:36:30	3.11	17.04
run3	11/16/2013	12:36:45	2.92	17.10
run3	11/16/2013	12:37:00	2.85	17.26
run3	11/16/2013	12:37:15	3.02	17.33

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run3	11/16/2013	12:37:30	3.08	17.26
run3	11/16/2013	12:37:45	3.15	17.16
run3	11/16/2013	12:38:00	3.11	17.07
run3	11/16/2013	12:38:15	3.03	17.12
run3	11/16/2013	12:38:30	3.03	17.20
run3	11/16/2013	12:38:45	3.02	17.21
run3	11/16/2013	12:39:00	2.98	17.22
run3	11/16/2013	12:39:15	3.12	17.20
run3	11/16/2013	12:39:30	3.20	17.13
run3	11/16/2013	12:39:45	3.35	17.04
run3	11/16/2013	12:40:00	3.32	16.95
run3	11/16/2013	12:40:15	3.28	16.86
run3	11/16/2013	12:40:30	3.38	16.87
run3	11/16/2013	12:40:45	3.47	16.83
run3	11/16/2013	12:41:00	3.39	16.80
run3	11/16/2013	12:41:15	3.32	16.89
run3	11/16/2013	12:41:30	3.14	16.94
run3	11/16/2013	12:41:45	3.28	17.01
run3	11/16/2013	12:42:00	3.28	16.97
run3	11/16/2013	12:42:15	3.38	16.99
run3	11/16/2013	12:42:30	3.33	16.92
run3	11/16/2013	12:42:45	3.25	16.92
run3	11/16/2013	12:43:00	3.30	16.99
run3	11/16/2013	12:43:15	3.27	16.99
run3	11/16/2013	12:43:30	2.93	17.09
run3	11/16/2013	12:43:45	3.02	17.27
run3	11/16/2013	12:44:00	3.30	17.17
run3	11/16/2013	12:44:15	3.42	16.98
run3	11/16/2013	12:44:30	3.29	16.93
run3	11/16/2013	12:44:45	3.07	17.03
run3	11/16/2013	12:45:00	2.89	17.18
run3	11/16/2013	12:45:15	3.12	17.27
run3	11/16/2013	12:45:30	3.14	17.17
run3	11/16/2013	12:45:45	2.99	17.19
run3	11/16/2013	12:46:00	2.82	17.29
run3	11/16/2013	12:46:15	2.82	17.38
run3	11/16/2013	12:46:30	2.85	17.40
run3	11/16/2013	12:46:45	2.80	17.44
run3	11/16/2013	12:47:00	2.84	17.48
run3	11/16/2013	12:47:15	2.94	17.44
run3	11/16/2013	12:47:30	3.13	17.27
run3	11/16/2013	12:47:45	3.22	17.12
run3	11/16/2013	12:48:00	3.22	17.07
run3	11/16/2013	12:48:15	3.26	17.06
run3	11/16/2013	12:48:30	3.26	16.98
run3	11/16/2013	12:48:45	3.32	16.99
run3	11/16/2013	12:49:00	3.56	16.92
run3	11/16/2013	12:49:15	3.52	16.76
run3	11/16/2013	12:49:30	3.33	16.80
run3	11/16/2013	12:49:45	3.24	16.90
run3	11/16/2013	12:50:00	3.22	17.03
run3	11/16/2013	12:50:15	3.31	17.05
run3	11/16/2013	12:50:30	3.32	17.01
run3	11/16/2013	12:50:45	3.37	16.96
averun3	11/16/2013	11:48:00	3.24	16.98
scg1	11/16/2013	12:51:00	3.30	16.88
scg1	11/16/2013	12:51:15	3.14	17.01
scg1	11/16/2013	12:51:30	3.00	17.18
scg1	11/16/2013	12:51:45	1.94	15.11
scg1	11/16/2013	12:52:00	0.06	4.54
scg1	11/16/2013	12:52:15	0.01	0.91
scg1	11/16/2013	12:52:30	0.00	0.24
scg1	11/16/2013	12:52:45	-0.02	0.17
scg1	11/16/2013	12:53:00	0.00	0.13
scg1	11/16/2013	12:53:15	-0.02	0.12
scg1	11/16/2013	12:53:30	-0.01	0.12
scg1	11/16/2013	12:53:45	-0.01	0.11
scg1	11/16/2013	12:54:00	-0.02	0.11
scg1	11/16/2013	12:54:15	-0.02	0.10
scg1	11/16/2013	12:54:30	-0.05	0.10
scg1	11/16/2013	12:54:45	-0.03	0.10
scg1	11/16/2013	12:55:00	0.00	0.10
scg1	11/16/2013	12:55:15	-0.04	0.09
scg1	11/16/2013	12:55:30	-0.01	0.09
co2zero1	11/16/2013	12:55:15	-0.04	0.09
co2zero1	11/16/2013	12:55:15	-0.04	0.09
o2zero1	11/16/2013	12:55:15	-0.04	0.09
scg5	11/16/2013	12:56:00	-0.03	0.09
scg5	11/16/2013	12:56:15	-0.02	0.09
scg5	11/16/2013	12:56:30	-0.02	0.09
scg5	11/16/2013	12:56:45	3.02	0.27
scg5	11/16/2013	12:57:00	9.41	3.76
scg5	11/16/2013	12:57:15	9.77	8.00
scg5	11/16/2013	12:57:30	9.85	9.34
scg5	11/16/2013	12:57:45	9.83	9.59
scg5	11/16/2013	12:58:00	9.86	9.65
scg5	11/16/2013	12:58:15	9.87	9.67
scg5	11/16/2013	12:58:30	9.84	9.71
o2span1	11/16/2013	12:58:30	9.84	9.71
scg6	11/16/2013	12:58:45	9.87	9.72
scg6	11/16/2013	12:59:00	9.88	9.71
scg6	11/16/2013	12:59:15	9.86	9.70
scg6	11/16/2013	12:59:30	9.90	9.73
scg6	11/16/2013	12:59:45	17.01	10.55
scg6	11/16/2013	13:00:00	19.99	15.42
scg6	11/16/2013	13:00:15	20.12	17.77
scg6	11/16/2013	13:00:30	20.11	18.69
scg6	11/16/2013	13:00:45	20.11	18.93

name	O2		CO2								
sn	1009241630		1009241630								
offset	0		0								
fullscale	100		20								
train	1		1								
gastype	o2 3a		co2 3a								
scg6	11/16/2013	13:01:00	20.13	19.00	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:01:15	20.13	19.00	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:01:30	20.12	18.95	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:01:45	20.16	18.98	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:02:00	20.14	19.04	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:02:15	20.16	19.05	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:02:30	20.15	19.03	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:02:45	20.17	18.99	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:03:00	20.17	19.03	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:03:15	20.13	19.07	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:03:30	20.17	19.07	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:03:45	20.14	19.02	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg6	11/16/2013	13:04:00	20.17	19.01	CC365323/cg6	O2	20.37	CO2	19.07	0	0
co2span1	11/16/2013	13:03:45	20.14	19.02	CC365323/cg6	O2	20.37	CO2	19.07	0	0
scg7	11/16/2013	13:04:15	20.17	19.05	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:04:30	20.18	19.08	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:04:45	20.18	19.06	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:05:00	18.69	18.99	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:05:15	2.01	14.73	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:05:30	0.17	4.29	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:05:45	0.09	0.95	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:06:00	0.07	0.39	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:06:15	0.03	0.29	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:06:30	0.03	0.25	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:06:45	-0.01	0.22	CC334442/cg7	CO	45.96		0	0	0
scg7	11/16/2013	13:07:00	0.02	0.20	CC334442/cg7	CO	45.96		0	0	0
cospan1	11/16/2013	13:07:00	0.02	0.20	CC334442/cg7	CO	45.96		0	0	0
run4l	11/16/2013	13:07:45	-0.02	0.16							
run4l	11/16/2013	13:08:00	0.36	0.17							
run4l	11/16/2013	13:08:15	2.76	4.47							
run4l	11/16/2013	13:08:30	2.98	13.87							
run4l	11/16/2013	13:08:45	3.10	16.47							
run4	11/16/2013	13:09:00	3.08	17.02							
run4	11/16/2013	13:09:15	2.91	17.15							
run4	11/16/2013	13:09:30	2.85	17.27							
run4	11/16/2013	13:09:45	2.94	17.29							
run4	11/16/2013	13:10:00	3.02	17.26							
run4	11/16/2013	13:10:15	3.09	17.25							
run4	11/16/2013	13:10:30	3.04	17.21							
run4	11/16/2013	13:10:45	3.15	17.16							
run4	11/16/2013	13:11:00	3.15	17.09							
run4	11/16/2013	13:11:15	3.05	17.14							
run4	11/16/2013	13:11:30	2.97	17.22							
run4	11/16/2013	13:11:45	2.96	17.28							
run4	11/16/2013	13:12:00	3.07	17.24							
run4	11/16/2013	13:12:15	3.24	17.14							
run4	11/16/2013	13:12:30	3.12	17.09							
run4	11/16/2013	13:12:45	3.11	17.14							
run4	11/16/2013	13:13:00	2.97	17.14							
run4	11/16/2013	13:13:15	2.78	17.29							
run4	11/16/2013	13:13:30	2.78	17.47							
run4	11/16/2013	13:13:45	2.75	17.48							
run4	11/16/2013	13:14:00	2.85	17.41							
run4	11/16/2013	13:14:15	2.77	17.37							
run4	11/16/2013	13:14:30	2.84	17.46							
run4	11/16/2013	13:14:45	2.87	17.44							
run4	11/16/2013	13:15:00	2.82	17.44							
run4	11/16/2013	13:15:15	2.85	17.45							
run4	11/16/2013	13:15:30	2.95	17.37							
run4	11/16/2013	13:15:45	3.05	17.30							
run4	11/16/2013	13:16:00	2.95	17.27							
run4	11/16/2013	13:16:15	3.00	17.30							
run4	11/16/2013	13:16:30	2.94	17.28							
run4	11/16/2013	13:16:45	2.97	17.28							
run4	11/16/2013	13:17:00	3.00	17.31							
run4	11/16/2013	13:17:15	2.88	17.34							
run4	11/16/2013	13:17:30	2.91	17.40							
run4	11/16/2013	13:17:45	2.92	17.35							
run4	11/16/2013	13:18:00	3.12	17.30							
run4	11/16/2013	13:18:15	3.12	17.20							
run4	11/16/2013	13:18:30	3.11	17.21							
run4	11/16/2013	13:18:45	3.28	17.17							
run4	11/16/2013	13:19:00	3.44	16.97							
run4	11/16/2013	13:19:15	3.16	16.93							
run4	11/16/2013	13:19:30	3.09	17.11							
run4	11/16/2013	13:19:45	3.17	17.18							
run4	11/16/2013	13:20:00	3.13	17.12							
run4	11/16/2013	13:20:15	3.10	17.12							
run4	11/16/2013	13:20:30	3.21	17.14							
run4	11/16/2013	13:20:45	3.29	17.08							
run4	11/16/2013	13:21:00	3.16	17.02							
run4	11/16/2013	13:21:15	2.99	17.09							
run4	11/16/2013	13:21:30	3.10	17.17							
run4	11/16/2013	13:21:45	3.10	17.19							
run4	11/16/2013	13:22:00	3.07	17.20							
run4	11/16/2013	13:22:15	3.04	17.20							
run4	11/16/2013	13:22:30	3.17	17.15							
run4	11/16/2013	13:22:45	3.22	17.08							
run4	11/16/2013	13:23:00	3.03	17.09							
run4	11/16/2013	13:23:15	3.01	17.20							
run4	11/16/2013	13:23:30	3.00	17.24							
run4	11/16/2013	13:23:45	3.05	17.20							
run4	11/16/2013	13:24:00	3.12	17.16							
run4	11/16/2013	13:24:15	3.23	17.15							
run4	11/16/2013	13:24:30	3.22	17.06							
run4	11/16/2013	13:24:45	3.19	17.04							
run4	11/16/2013	13:25:00	3.04	17.05							
run4	11/16/2013	13:25:15	3.07	17.17							

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run4	11/16/2013	13:25:30	3.21	17.16
run4	11/16/2013	13:25:45	3.17	17.09
run4	11/16/2013	13:26:00	3.14	17.09
run4	11/16/2013	13:26:15	3.27	17.04
run4	11/16/2013	13:26:30	3.05	16.97
run4	11/16/2013	13:26:45	3.07	17.02
run4	11/16/2013	13:27:00	3.22	17.05
run4	11/16/2013	13:27:15	3.27	17.01
run4	11/16/2013	13:27:30	3.17	16.95
run4	11/16/2013	13:27:45	2.93	17.08
run4	11/16/2013	13:28:00	2.88	17.29
run4	11/16/2013	13:28:15	2.78	17.40
run4	11/16/2013	13:28:30	2.83	17.47
run4	11/16/2013	13:28:45	2.85	17.39
run4	11/16/2013	13:29:00	2.87	17.38
run4	11/16/2013	13:29:15	2.88	17.39
run4	11/16/2013	13:29:30	2.93	17.40
run4	11/16/2013	13:29:45	2.91	17.37
run4	11/16/2013	13:30:00	2.87	17.31
run4	11/16/2013	13:30:15	2.89	17.32
run4	11/16/2013	13:30:30	2.82	17.37
run4	11/16/2013	13:30:45	3.04	17.39
run4	11/16/2013	13:31:00	3.24	17.23
run4	11/16/2013	13:31:15	3.06	17.08
run4	11/16/2013	13:31:30	3.03	17.13
run4	11/16/2013	13:31:45	3.22	17.18
run4	11/16/2013	13:32:00	3.46	17.03
run4	11/16/2013	13:32:15	3.50	16.85
run4	11/16/2013	13:32:30	3.49	16.74
run4	11/16/2013	13:32:45	3.37	16.75
run4	11/16/2013	13:33:00	3.28	16.90
run4	11/16/2013	13:33:15	3.28	16.98
run4	11/16/2013	13:33:30	3.30	16.96
run4	11/16/2013	13:33:45	3.15	16.93
run4	11/16/2013	13:34:00	3.11	17.05
run4	11/16/2013	13:34:15	3.02	17.14
run4	11/16/2013	13:34:30	3.03	17.21
run4	11/16/2013	13:34:45	3.12	17.17
run4	11/16/2013	13:35:00	3.25	17.04
run4	11/16/2013	13:35:15	3.23	17.00
run4	11/16/2013	13:35:30	3.28	17.03
run4	11/16/2013	13:35:45	3.32	16.99
run4	11/16/2013	13:36:00	3.29	16.92
run4	11/16/2013	13:36:15	3.29	16.92
run4	11/16/2013	13:36:30	3.39	16.92
run4	11/16/2013	13:36:45	3.45	16.88
run4	11/16/2013	13:37:00	3.42	16.82
run4	11/16/2013	13:37:15	3.47	16.82
run4	11/16/2013	13:37:30	3.64	16.68
run4	11/16/2013	13:37:45	3.64	16.58
run4	11/16/2013	13:38:00	3.46	16.65
run4	11/16/2013	13:38:15	3.45	16.78
run4	11/16/2013	13:38:30	3.31	16.78
run4	11/16/2013	13:38:45	3.10	16.88
run4	11/16/2013	13:39:00	3.12	17.08
run4	11/16/2013	13:39:15	3.14	17.11
run4	11/16/2013	13:39:30	3.12	17.12
run4	11/16/2013	13:39:45	2.99	17.14
run4	11/16/2013	13:40:00	3.03	17.21
run4	11/16/2013	13:40:15	3.17	17.19
run4	11/16/2013	13:40:30	3.19	17.11
run4	11/16/2013	13:40:45	3.25	17.07
run4	11/16/2013	13:41:00	3.17	16.99
run4	11/16/2013	13:41:15	3.22	17.03
run4	11/16/2013	13:41:30	3.32	17.03
run4	11/16/2013	13:41:45	3.38	16.96
run4	11/16/2013	13:42:00	3.46	16.87
run4	11/16/2013	13:42:15	3.52	16.73
run4	11/16/2013	13:42:30	3.39	16.71
run4	11/16/2013	13:42:45	3.32	16.84
run4	11/16/2013	13:43:00	3.36	16.91
run4	11/16/2013	13:43:15	3.53	16.83
run4	11/16/2013	13:43:30	3.63	16.65
run4	11/16/2013	13:43:45	3.69	16.59
run4	11/16/2013	13:44:00	3.78	16.53
run4	11/16/2013	13:44:15	3.66	16.50
run4	11/16/2013	13:44:30	3.47	16.54
run4	11/16/2013	13:44:45	3.27	16.72
run4	11/16/2013	13:45:00	3.24	16.92
run4	11/16/2013	13:45:15	3.27	16.96
run4	11/16/2013	13:45:30	3.12	17.00
run4	11/16/2013	13:45:45	3.05	17.06
run4	11/16/2013	13:46:00	3.14	17.10
run4	11/16/2013	13:46:15	3.21	17.07
run4	11/16/2013	13:46:30	3.26	17.01
run4	11/16/2013	13:46:45	3.34	16.96
run4	11/16/2013	13:47:00	3.32	16.86
run4	11/16/2013	13:47:15	3.26	16.85
run4	11/16/2013	13:47:30	3.19	16.95
run4	11/16/2013	13:47:45	3.00	17.07
run4	11/16/2013	13:48:00	3.02	17.18
run4	11/16/2013	13:48:15	2.84	17.21
run4	11/16/2013	13:48:30	2.88	17.30
run4	11/16/2013	13:48:45	3.09	17.30
run4	11/16/2013	13:49:00	3.00	17.17
run4	11/16/2013	13:49:15	2.99	17.20
run4	11/16/2013	13:49:30	3.07	17.15
run4	11/16/2013	13:49:45	3.10	17.10

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run4	11/16/2013	13:50:00	3.06	17.13
run4	11/16/2013	13:50:15	3.13	17.16
run4	11/16/2013	13:50:30	3.13	17.04
run4	11/16/2013	13:50:45	3.03	17.01
run4	11/16/2013	13:51:00	3.02	17.12
run4	11/16/2013	13:51:15	2.96	17.17
run4	11/16/2013	13:51:30	2.90	17.26
run4	11/16/2013	13:51:45	2.95	17.25
run4	11/16/2013	13:52:00	2.99	17.16
run4	11/16/2013	13:52:15	3.04	17.19
run4	11/16/2013	13:52:30	3.11	17.15
run4	11/16/2013	13:52:45	3.02	17.13
run4	11/16/2013	13:53:00	3.04	17.15
run4	11/16/2013	13:53:15	3.17	17.06
run4	11/16/2013	13:53:30	3.11	17.04
run4	11/16/2013	13:53:45	3.12	17.10
run4	11/16/2013	13:54:00	3.19	17.07
run4	11/16/2013	13:54:15	3.21	16.97
run4	11/16/2013	13:54:30	3.27	16.95
run4	11/16/2013	13:54:45	3.33	16.92
run4	11/16/2013	13:55:00	3.23	16.91
run4	11/16/2013	13:55:15	3.29	16.95
run4	11/16/2013	13:55:30	3.20	16.88
run4	11/16/2013	13:55:45	3.18	16.95
run4	11/16/2013	13:56:00	3.29	16.98
run4	11/16/2013	13:56:15	3.26	16.92
run4	11/16/2013	13:56:30	3.21	16.92
run4	11/16/2013	13:56:45	3.20	16.91
run4	11/16/2013	13:57:00	3.15	16.97
run4	11/16/2013	13:57:15	3.17	17.01
run4	11/16/2013	13:57:30	3.13	17.03
run4	11/16/2013	13:57:45	3.21	17.03
run4	11/16/2013	13:58:00	3.33	16.90
run4	11/16/2013	13:58:15	3.33	16.82
run4	11/16/2013	13:58:30	3.28	16.85
run4	11/16/2013	13:58:45	3.32	16.90
run4	11/16/2013	13:59:00	3.39	16.85
run4	11/16/2013	13:59:15	3.31	16.76
run4	11/16/2013	13:59:30	3.22	16.82
run4	11/16/2013	13:59:45	3.18	16.93
run4	11/16/2013	14:00:00	3.15	17.01
run4	11/16/2013	14:00:15	3.27	17.00
run4	11/16/2013	14:00:30	3.49	16.82
run4	11/16/2013	14:00:45	3.28	16.74
run4	11/16/2013	14:01:00	3.17	16.89
run4	11/16/2013	14:01:15	3.22	16.97
run4	11/16/2013	14:01:30	3.16	16.97
run4	11/16/2013	14:01:45	3.04	16.97
run4	11/16/2013	14:02:00	2.97	17.06
run4	11/16/2013	14:02:15	3.03	17.16
run4	11/16/2013	14:02:30	3.09	17.14
run4	11/16/2013	14:02:45	3.18	17.08
run4	11/16/2013	14:03:00	3.24	16.97
run4	11/16/2013	14:03:15	3.25	16.92
run4	11/16/2013	14:03:30	3.27	16.92
run4	11/16/2013	14:03:45	3.22	16.92
run4	11/16/2013	14:04:00	3.22	16.97
run4	11/16/2013	14:04:15	3.28	16.93
run4	11/16/2013	14:04:30	3.25	16.88
run4	11/16/2013	14:04:45	3.24	16.93
run4	11/16/2013	14:05:00	3.18	16.95
run4	11/16/2013	14:05:15	2.96	17.02
run4	11/16/2013	14:05:30	2.80	17.17
run4	11/16/2013	14:05:45	2.86	17.32
run4	11/16/2013	14:06:00	3.07	17.29
run4	11/16/2013	14:06:15	3.11	17.15
run4	11/16/2013	14:06:30	3.18	17.05
run4	11/16/2013	14:06:45	3.43	16.90
run4	11/16/2013	14:07:00	3.45	16.75
run4	11/16/2013	14:07:15	3.30	16.76
run4	11/16/2013	14:07:30	3.20	16.91
run4	11/16/2013	14:07:45	3.26	16.96
run4	11/16/2013	14:08:00	3.35	16.86
run4	11/16/2013	14:08:15	3.28	16.84
run4	11/16/2013	14:08:30	3.17	16.92
run4	11/16/2013	14:08:45	3.10	17.02
run4	11/16/2013	14:09:00	3.19	17.00
run4	11/16/2013	14:09:15	3.10	16.99
run4	11/16/2013	14:09:30	3.19	17.08
run4	11/16/2013	14:09:45	3.10	17.05
run4	11/16/2013	14:10:00	3.22	17.06
run4	11/16/2013	14:10:15	3.31	16.93
run4	11/16/2013	14:10:30	3.39	16.84
run4	11/16/2013	14:10:45	3.29	16.82
run4	11/16/2013	14:11:00	3.21	16.92
run4	11/16/2013	14:11:15	3.15	16.99
run4	11/16/2013	14:11:30	3.20	16.99
run4	11/16/2013	14:11:45	3.28	16.98
run4	11/16/2013	14:12:00	3.41	16.92
run4	11/16/2013	14:12:15	3.31	16.87
run4	11/16/2013	14:12:30	3.21	16.92
run4	11/16/2013	14:12:45	3.34	16.92
run4	11/16/2013	14:13:00	3.41	16.83
run4	11/16/2013	14:13:15	3.20	16.85
run4	11/16/2013	14:13:30	3.05	17.03
run4	11/16/2013	14:13:45	2.92	17.13
run4	11/16/2013	14:14:00	2.91	17.21
run4	11/16/2013	14:14:15	2.92	17.26

name	O2		CO2					
sn	1009241630		1009241630					
offset	0		0					
fullscale	100		20					
train	1		1					
gastype	o2 3a		co2 3a					
run4	11/16/2013	14:14:30	2.94	17.32				
run4	11/16/2013	14:14:45	2.92	17.28				
run4	11/16/2013	14:15:00	2.95	17.24				
run4	11/16/2013	14:15:15	2.94	17.23				
run4	11/16/2013	14:15:30	2.89	17.28				
run4	11/16/2013	14:15:45	2.86	17.36				
run4	11/16/2013	14:16:00	2.76	17.40				
run4	11/16/2013	14:16:15	2.76	17.41				
run4	11/16/2013	14:16:30	2.92	17.41				
run4	11/16/2013	14:16:45	2.98	17.31				
run4	11/16/2013	14:17:00	2.93	17.28				
run4	11/16/2013	14:17:15	3.04	17.25				
run4	11/16/2013	14:17:30	3.10	17.13				
averun4	11/16/2013	13:15:00	3.17	17.04	60			
scg7	11/16/2013	14:17:45	3.09	17.13	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	14:18:00	3.10	17.14	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	14:18:15	3.10	17.15	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	14:18:30	2.91	15.77	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	14:18:45	0.18	7.36	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	14:19:00	0.02	1.26	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	14:19:15	-0.11	0.28	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	14:19:30	0.00	0.11	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	14:19:45	-0.01	0.08	CC334442/cg7	CO	45.96	0 0 0
cospan1	11/16/2013	14:19:45	-0.01	0.08	CC334442/cg7	CO	45.96	0 0 0
scg6	11/16/2013	14:20:00	0.00	0.06	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:20:15	0.00	0.05	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:20:30	0.00	0.05	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:20:45	1.77	0.10	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:21:00	18.04	4.07	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:21:15	19.99	13.56	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:21:30	20.09	17.59	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:21:45	20.11	18.57	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:22:00	20.11	18.77	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:22:15	20.15	18.76	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:22:30	20.12	18.82	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:22:45	20.15	18.88	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:23:00	20.18	18.92	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:23:15	20.18	18.90	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:23:30	20.15	18.87	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:23:45	20.16	18.89	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:24:00	20.19	18.94	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:24:15	20.17	18.95	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:24:30	20.18	18.91	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:24:45	20.16	18.91	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:25:00	20.15	18.96	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:25:15	20.15	18.99	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:25:30	20.16	18.98	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:25:45	20.18	18.92	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:26:00	20.15	18.95	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:26:15	20.19	19.00	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:26:30	20.16	19.00	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:26:45	20.15	18.98	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:27:00	20.17	18.93	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:27:15	20.16	18.97	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	14:27:30	20.10	19.00	CC365323/cg6	O2	20.37	CO2 19.07 0 0
co2span1	11/16/2013	14:27:15	20.16	18.97	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg5	11/16/2013	14:27:45	20.15	19.00	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg5	11/16/2013	14:28:00	20.17	18.94	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg5	11/16/2013	14:28:15	20.15	18.94	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg5	11/16/2013	14:28:30	19.50	18.99	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg5	11/16/2013	14:28:45	10.88	16.79	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg5	11/16/2013	14:29:00	9.96	11.24	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg5	11/16/2013	14:29:15	9.93	9.89	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg5	11/16/2013	14:29:30	9.93	9.80	CC427756/cg5	O2	10.03	CO2 9.624 0 0
o2span1	11/16/2013	14:29:30	9.93	9.80	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg1	11/16/2013	14:29:45	9.92	9.79	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/16/2013	14:30:00	9.94	9.78	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/16/2013	14:30:15	9.90	9.75	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/16/2013	14:30:30	9.84	9.74	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/16/2013	14:30:45	2.62	8.88	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/16/2013	14:31:00	0.08	2.82	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/16/2013	14:31:15	-0.09	0.62	CC281765/cg1	CO	0	0 CO2 0 02 0
scg1	11/16/2013	14:31:30	0.05	0.25	CC281765/cg1	CO	0	0 CO2 0 02 0
cozero1	11/16/2013	14:31:30	0.05	0.25	CC281765/cg1	CO	0	0 CO2 0 02 0
co2zero1	11/16/2013	14:31:30	0.05	0.25	CC281765/cg1	CO	0	0 CO2 0 02 0
o2zero1	11/16/2013	14:31:30	0.05	0.25	CC281765/cg1	CO	0	0 CO2 0 02 0
run5i	11/16/2013	14:32:30	0.01	0.13				
run5i	11/16/2013	14:32:45	1.28	0.71				
run5i	11/16/2013	14:33:00	2.92	8.25				
run5i	11/16/2013	14:33:15	3.01	15.28				
run5	11/16/2013	14:33:30	2.98	16.88				
run5	11/16/2013	14:33:45	3.05	17.09				
run5	11/16/2013	14:34:00	3.02	17.11				
run5	11/16/2013	14:34:15	3.15	17.17				
run5	11/16/2013	14:34:30	3.31	17.09				
run5	11/16/2013	14:34:45	3.30	16.96				
run5	11/16/2013	14:35:00	3.27	16.93				
run5	11/16/2013	14:35:15	3.36	16.96				
run5	11/16/2013	14:35:30	3.33	16.94				
run5	11/16/2013	14:35:45	3.31	16.94				
run5	11/16/2013	14:36:00	3.24	16.95				
run5	11/16/2013	14:36:15	3.16	16.97				
run5	11/16/2013	14:36:30	3.00	17.11				
run5	11/16/2013	14:36:45	2.89	17.26				
run5	11/16/2013	14:37:00	2.94	17.36				
run5	11/16/2013	14:37:15	2.90	17.31				
run5	11/16/2013	14:37:30	2.96	17.30				
run5	11/16/2013	14:37:45	3.05	17.29				

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run5	11/16/2013	14:38:00	3.28	17.19
run5	11/16/2013	14:38:15	3.37	17.01
run5	11/16/2013	14:38:30	3.38	16.86
run5	11/16/2013	14:38:45	3.24	16.86
run5	11/16/2013	14:39:00	3.33	16.96
run5	11/16/2013	14:39:15	3.56	16.90
run5	11/16/2013	14:39:30	3.54	16.74
run5	11/16/2013	14:39:45	3.52	16.67
run5	11/16/2013	14:40:00	3.54	16.70
run5	11/16/2013	14:40:15	3.54	16.72
run5	11/16/2013	14:40:30	3.51	16.73
run5	11/16/2013	14:40:45	3.58	16.72
run5	11/16/2013	14:41:00	3.62	16.62
run5	11/16/2013	14:41:15	3.61	16.60
run5	11/16/2013	14:41:30	3.63	16.62
run5	11/16/2013	14:41:45	3.56	16.63
run5	11/16/2013	14:42:00	3.44	16.70
run5	11/16/2013	14:42:15	3.35	16.77
run5	11/16/2013	14:42:30	3.37	16.81
run5	11/16/2013	14:42:45	3.33	16.84
run5	11/16/2013	14:43:00	3.22	16.94
run5	11/16/2013	14:43:15	3.29	17.01
run5	11/16/2013	14:43:30	3.27	16.94
run5	11/16/2013	14:43:45	3.26	16.92
run5	11/16/2013	14:44:00	3.20	16.96
run5	11/16/2013	14:44:15	3.00	17.06
run5	11/16/2013	14:44:30	2.97	17.20
run5	11/16/2013	14:44:45	3.18	17.15
run5	11/16/2013	14:45:00	3.13	17.02
run5	11/16/2013	14:45:15	3.04	17.09
run5	11/16/2013	14:45:30	3.08	17.17
run5	11/16/2013	14:45:45	3.19	17.12
run5	11/16/2013	14:46:00	3.17	17.03
run5	11/16/2013	14:46:15	3.29	16.97
run5	11/16/2013	14:46:30	3.19	16.95
run5	11/16/2013	14:46:45	3.26	17.02
run5	11/16/2013	14:47:00	3.18	16.98
run5	11/16/2013	14:47:15	2.96	17.04
run5	11/16/2013	14:47:30	3.08	17.18
run5	11/16/2013	14:47:45	3.12	17.16
run5	11/16/2013	14:48:00	3.07	17.12
run5	11/16/2013	14:48:15	3.13	17.15
run5	11/16/2013	14:48:30	3.09	17.07
run5	11/16/2013	14:48:45	3.00	17.12
run5	11/16/2013	14:49:00	3.10	17.18
run5	11/16/2013	14:49:15	3.20	17.14
run5	11/16/2013	14:49:30	3.41	17.00
run5	11/16/2013	14:49:45	3.29	16.81
run5	11/16/2013	14:50:00	3.11	16.92
run5	11/16/2013	14:50:15	2.99	17.10
run5	11/16/2013	14:50:30	3.07	17.21
run5	11/16/2013	14:50:45	3.22	17.16
run5	11/16/2013	14:51:00	3.34	16.94
run5	11/16/2013	14:51:15	3.32	16.87
run5	11/16/2013	14:51:30	3.26	16.91
run5	11/16/2013	14:51:45	3.14	17.01
run5	11/16/2013	14:52:00	3.14	17.05
run5	11/16/2013	14:52:15	3.32	16.99
run5	11/16/2013	14:52:30	3.44	16.89
run5	11/16/2013	14:52:45	3.48	16.80
run5	11/16/2013	14:53:00	3.37	16.78
run5	11/16/2013	14:53:15	3.17	16.83
run5	11/16/2013	14:53:30	3.20	16.99
run5	11/16/2013	14:53:45	3.29	17.03
run5	11/16/2013	14:54:00	3.40	16.92
run5	11/16/2013	14:54:15	3.34	16.87
run5	11/16/2013	14:54:30	3.26	16.87
run5	11/16/2013	14:54:45	3.12	16.95
run5	11/16/2013	14:55:00	3.15	17.07
run5	11/16/2013	14:55:15	3.12	17.10
run5	11/16/2013	14:55:30	3.13	17.09
run5	11/16/2013	14:55:45	3.00	17.08
run5	11/16/2013	14:56:00	3.05	17.15
run5	11/16/2013	14:56:15	3.02	17.20
run5	11/16/2013	14:56:30	3.13	17.19
run5	11/16/2013	14:56:45	3.34	17.06
run5	11/16/2013	14:57:00	3.43	16.85
run5	11/16/2013	14:57:15	3.46	16.79
run5	11/16/2013	14:57:30	3.42	16.80
run5	11/16/2013	14:57:45	3.41	16.82
run5	11/16/2013	14:58:00	3.36	16.79
run5	11/16/2013	14:58:15	3.39	16.82
run5	11/16/2013	14:58:30	3.34	16.85
run5	11/16/2013	14:58:45	3.28	16.90
run5	11/16/2013	14:59:00	3.07	17.01
run5	11/16/2013	14:59:15	3.08	17.08
run5	11/16/2013	14:59:30	3.09	17.11
run5	11/16/2013	14:59:45	3.12	17.13
run5	11/16/2013	15:00:00	3.09	17.11
run5	11/16/2013	15:00:15	2.99	17.12
run5	11/16/2013	15:00:30	3.04	17.17
run5	11/16/2013	15:00:45	3.09	17.17
run5	11/16/2013	15:01:00	3.12	17.15
run5	11/16/2013	15:01:15	3.13	17.11
run5	11/16/2013	15:01:30	3.36	16.99
run5	11/16/2013	15:01:45	3.52	16.83
run5	11/16/2013	15:02:00	3.61	16.72
run5	11/16/2013	15:02:15	3.62	16.67

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run5	11/16/2013	15:02:30	3.64	16.61
run5	11/16/2013	15:02:45	3.74	16.50
run5	11/16/2013	15:03:00	3.66	16.48
run5	11/16/2013	15:03:15	3.54	16.57
run5	11/16/2013	15:03:30	3.33	16.72
run5	11/16/2013	15:03:45	3.22	16.87
run5	11/16/2013	15:04:00	3.18	16.92
run5	11/16/2013	15:04:15	3.24	17.01
run5	11/16/2013	15:04:30	3.42	16.96
run5	11/16/2013	15:04:45	3.54	16.84
run5	11/16/2013	15:05:00	3.57	16.68
run5	11/16/2013	15:05:15	3.39	16.65
run5	11/16/2013	15:05:30	3.44	16.79
run5	11/16/2013	15:05:45	3.42	16.82
run5	11/16/2013	15:06:00	3.27	16.83
run5	11/16/2013	15:06:15	3.16	16.86
run5	11/16/2013	15:06:30	3.27	16.99
run5	11/16/2013	15:06:45	3.53	16.90
run5	11/16/2013	15:07:00	3.38	16.80
run5	11/16/2013	15:07:15	3.14	16.87
run5	11/16/2013	15:07:30	3.18	16.98
run5	11/16/2013	15:07:45	3.17	17.01
run5	11/16/2013	15:08:00	3.03	17.08
run5	11/16/2013	15:08:15	3.08	17.17
run5	11/16/2013	15:08:30	3.06	17.12
run5	11/16/2013	15:08:45	3.16	17.08
run5	11/16/2013	15:09:00	3.19	17.02
run5	11/16/2013	15:09:15	3.16	17.01
run5	11/16/2013	15:09:30	3.18	17.04
run5	11/16/2013	15:09:45	3.29	16.99
run5	11/16/2013	15:10:00	3.25	16.88
run5	11/16/2013	15:10:15	3.12	16.96
run5	11/16/2013	15:10:30	3.12	17.08
run5	11/16/2013	15:10:45	3.23	17.07
run5	11/16/2013	15:11:00	3.19	16.95
run5	11/16/2013	15:11:15	3.07	16.97
run5	11/16/2013	15:11:30	3.22	17.09
run5	11/16/2013	15:11:45	3.32	16.99
run5	11/16/2013	15:12:00	3.27	16.93
run5	11/16/2013	15:12:15	3.40	16.86
run5	11/16/2013	15:12:30	3.57	16.73
run5	11/16/2013	15:12:45	3.55	16.66
run5	11/16/2013	15:13:00	3.65	16.65
run5	11/16/2013	15:13:15	3.55	16.60
run5	11/16/2013	15:13:30	3.30	16.66
run5	11/16/2013	15:13:45	3.13	16.85
run5	11/16/2013	15:14:00	2.98	17.10
run5	11/16/2013	15:14:15	3.00	17.23
run5	11/16/2013	15:14:30	3.18	17.16
run5	11/16/2013	15:14:45	3.20	16.99
run5	11/16/2013	15:15:00	3.29	16.93
run5	11/16/2013	15:15:15	3.25	16.92
run5	11/16/2013	15:15:30	3.34	16.93
run5	11/16/2013	15:15:45	3.31	16.85
run5	11/16/2013	15:16:00	3.20	16.86
run5	11/16/2013	15:16:15	3.14	16.97
run5	11/16/2013	15:16:30	3.26	17.03
run5	11/16/2013	15:16:45	3.32	16.95
run5	11/16/2013	15:17:00	3.18	16.90
run5	11/16/2013	15:17:15	3.03	16.95
run5	11/16/2013	15:17:30	3.05	17.09
run5	11/16/2013	15:17:45	3.19	17.11
run5	11/16/2013	15:18:00	3.15	16.99
run5	11/16/2013	15:18:15	2.98	17.02
run5	11/16/2013	15:18:30	3.08	17.10
run5	11/16/2013	15:18:45	3.15	17.09
run5	11/16/2013	15:19:00	3.27	17.02
run5	11/16/2013	15:19:15	3.31	16.91
run5	11/16/2013	15:19:30	3.35	16.82
run5	11/16/2013	15:19:45	3.41	16.78
run5	11/16/2013	15:20:00	3.47	16.75
run5	11/16/2013	15:20:15	3.41	16.72
run5	11/16/2013	15:20:30	3.30	16.75
run5	11/16/2013	15:20:45	3.18	16.81
run5	11/16/2013	15:21:00	3.23	16.90
run5	11/16/2013	15:21:15	3.36	16.89
run5	11/16/2013	15:21:30	3.31	16.82
run5	11/16/2013	15:21:45	3.20	16.87
run5	11/16/2013	15:22:00	3.18	16.91
run5	11/16/2013	15:22:15	3.19	16.95
run5	11/16/2013	15:22:30	3.20	16.96
run5	11/16/2013	15:22:45	3.09	16.98
run5	11/16/2013	15:23:00	2.91	17.10
run5	11/16/2013	15:23:15	2.95	17.18
run5	11/16/2013	15:23:30	2.98	17.17
run5	11/16/2013	15:23:45	2.88	17.21
run5	11/16/2013	15:24:00	2.97	17.28
run5	11/16/2013	15:24:15	3.12	17.17
run5	11/16/2013	15:24:30	3.13	17.01
run5	11/16/2013	15:24:45	3.10	17.00
run5	11/16/2013	15:25:00	3.27	17.02
run5	11/16/2013	15:25:15	3.27	16.92
run5	11/16/2013	15:25:30	3.13	16.86
run5	11/16/2013	15:25:45	3.14	16.95
run5	11/16/2013	15:26:00	3.14	17.00
run5	11/16/2013	15:26:15	3.13	17.01
run5	11/16/2013	15:26:30	3.24	17.03
run5	11/16/2013	15:26:45	3.48	16.85

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run5	11/16/2013	15:27:00	3.61	16.65
run5	11/16/2013	15:27:15	3.54	16.61
run5	11/16/2013	15:27:30	3.62	16.63
run5	11/16/2013	15:27:45	3.53	16.58
run5	11/16/2013	15:28:00	3.37	16.64
run5	11/16/2013	15:28:15	3.29	16.75
run5	11/16/2013	15:28:30	3.33	16.83
run5	11/16/2013	15:28:45	3.25	16.85
run5	11/16/2013	15:29:00	3.12	16.97
run5	11/16/2013	15:29:15	3.20	17.00
run5	11/16/2013	15:29:30	3.23	16.92
run5	11/16/2013	15:29:45	3.23	16.93
run5	11/16/2013	15:30:00	3.29	16.96
run5	11/16/2013	15:30:15	3.25	16.93
run5	11/16/2013	15:30:30	3.14	16.93
run5	11/16/2013	15:30:45	3.05	16.98
run5	11/16/2013	15:31:00	3.00	17.09
run5	11/16/2013	15:31:15	3.02	17.18
run5	11/16/2013	15:31:30	3.10	17.15
run5	11/16/2013	15:31:45	3.08	17.08
run5	11/16/2013	15:32:00	3.07	17.08
run5	11/16/2013	15:32:15	3.12	17.10
run5	11/16/2013	15:32:30	3.27	17.04
run5	11/16/2013	15:32:45	3.21	16.95
run5	11/16/2013	15:33:00	3.07	17.00
run5	11/16/2013	15:33:15	3.14	17.05
run5	11/16/2013	15:33:30	3.22	17.02
run5	11/16/2013	15:33:45	3.38	16.94
run5	11/16/2013	15:34:00	3.35	16.84
run5	11/16/2013	15:34:15	3.14	16.85
run5	11/16/2013	15:34:30	3.12	16.98
run5	11/16/2013	15:34:45	3.14	17.04
run5	11/16/2013	15:35:00	2.98	17.09
run5	11/16/2013	15:35:15	3.04	17.20
run5	11/16/2013	15:35:30	3.13	17.12
run5	11/16/2013	15:35:45	3.18	16.98
run5	11/16/2013	15:36:00	3.17	17.01
run5	11/16/2013	15:36:15	3.17	17.04
run5	11/16/2013	15:36:30	3.18	17.02
run5	11/16/2013	15:36:45	3.02	17.02
run5	11/16/2013	15:37:00	3.09	17.08
run5	11/16/2013	15:37:15	3.26	17.05
run5	11/16/2013	15:37:30	3.13	16.96
run5	11/16/2013	15:37:45	2.98	17.08
run5	11/16/2013	15:38:00	2.94	17.18
run5	11/16/2013	15:38:15	2.82	17.22
run5	11/16/2013	15:38:30	2.75	17.38
run5	11/16/2013	15:38:45	2.70	17.49
run5	11/16/2013	15:39:00	2.74	17.51
run5	11/16/2013	15:39:15	2.85	17.43
run5	11/16/2013	15:39:30	2.90	17.30
run5	11/16/2013	15:39:45	2.98	17.26
run5	11/16/2013	15:40:00	3.03	17.23
run5	11/16/2013	15:40:15	3.20	17.13
run5	11/16/2013	15:40:30	3.28	16.95
averun5	11/16/2013	14:39:00	3.24	16.95
scg1	11/16/2013	15:40:45	3.29	16.87 CC281765/cg1 CO
scg1	11/16/2013	15:41:00	3.10	16.92 CC281765/cg1 CO
scg1	11/16/2013	15:41:15	2.87	17.11 CC281765/cg1 CO
scg1	11/16/2013	15:41:30	2.58	15.90 CC281765/cg1 CO
scg1	11/16/2013	15:41:45	0.15	7.17 CC281765/cg1 CO
scg1	11/16/2013	15:42:00	0.01	1.14 CC281765/cg1 CO
scg1	11/16/2013	15:42:15	0.00	0.23 CC281765/cg1 CO
scg1	11/16/2013	15:42:30	0.01	0.10 CC281765/cg1 CO
scg1	11/16/2013	15:42:45	0.00	0.06 CC281765/cg1 CO
scg1	11/16/2013	15:43:00	0.01	0.04 CC281765/cg1 CO
scg1	11/16/2013	15:43:15	0.00	0.03 CC281765/cg1 CO
scg1	11/16/2013	15:43:30	0.01	0.03 CC281765/cg1 CO
scg1	11/16/2013	15:43:45	0.03	0.02 CC281765/cg1 CO
scg1	11/16/2013	15:44:00	0.00	0.01 CC281765/cg1 CO
scg1	11/16/2013	15:44:15	0.01	0.01 CC281765/cg1 CO
scg1	11/16/2013	15:44:30	0.00	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:44:45	-0.01	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:45:00	0.00	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:45:15	0.00	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:45:30	0.01	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:45:45	0.01	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:46:00	-0.01	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:46:15	-0.01	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:46:30	0.02	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:46:45	0.00	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:47:00	0.00	0.00 CC281765/cg1 CO
scg1	11/16/2013	15:47:15	0.01	0.00 CC281765/cg1 CO
cozero1	11/16/2013	15:47:15	0.01	0.00 CC281765/cg1 CO
co2zero1	11/16/2013	15:47:00	0.00	0.00 CC281765/cg1 CO
o2zero1	11/16/2013	15:47:15	0.01	0.00 CC281765/cg1 CO
scg5	11/16/2013	15:47:30	-0.02	0.00 CC427756/cg5 O2
scg5	11/16/2013	15:47:45	0.00	0.00 CC427756/cg5 O2
scg5	11/16/2013	15:48:00	0.01	0.00 CC427756/cg5 O2
scg5	11/16/2013	15:48:15	-0.01	0.00 CC427756/cg5 O2
scg5	11/16/2013	15:48:30	2.44	0.06 CC427756/cg5 O2
scg5	11/16/2013	15:48:45	9.33	3.06 CC427756/cg5 O2
scg5	11/16/2013	15:49:00	9.85	7.90 CC427756/cg5 O2
scg5	11/16/2013	15:49:15	9.90	9.08 CC427756/cg5 O2
scg5	11/16/2013	15:49:30	9.88	9.44 CC427756/cg5 O2
scg5	11/16/2013	15:49:45	9.90	9.52 CC427756/cg5 O2
scg5	11/16/2013	15:50:00	9.89	9.56 CC427756/cg5 O2
scg5	11/16/2013	15:50:15	9.93	9.57 CC427756/cg5 O2

name	O2		CO2					
sn	1009241630		1009241630					
offset	0		0					
fullscale	100		20					
train	1		1					
gastype	o2 3a		co2 3a					
scg5	11/16/2013	15:50:30	9.92	9.56	CC427756/cg5	O2	10.03	CO2 9.624 0 0
o2span1	11/16/2013	15:50:30	9.92	9.56	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg6	11/16/2013	15:50:45	9.90	9.57	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:51:00	9.92	9.60	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:51:15	9.91	9.61	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:51:30	9.94	9.60	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:51:45	12.69	9.69	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:52:00	19.70	12.70	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:52:15	20.13	16.85	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:52:30	20.19	18.36	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:52:45	20.19	18.65	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:53:00	20.20	18.76	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:53:15	20.19	18.82	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg6	11/16/2013	15:53:30	20.20	18.85	CC365323/cg6	O2	20.37	CO2 19.07 0 0
co2span1	11/16/2013	15:53:30	20.20	18.85	CC365323/cg6	O2	20.37	CO2 19.07 0 0
scg5	11/16/2013	15:53:45	20.22	18.85	CC427756/cg5	O2	10.03	CO2 9.624 0 0
scg7	11/16/2013	15:54:00	20.20	18.80	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:54:15	20.21	18.83	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:54:30	20.22	18.86	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:54:45	17.55	18.72	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:55:00	2.09	13.91	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:55:15	0.20	4.12	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:55:30	0.14	0.75	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:55:45	0.11	0.34	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:56:00	0.09	0.26	CC334442/cg7	CO	45.96	0 0 0
scg7	11/16/2013	15:56:15	0.09	0.21	CC334442/cg7	CO	45.96	0 0 0
cospan1	11/16/2013	15:56:15	0.09	0.21	CC334442/cg7	CO	45.96	0 0 0
run6l	11/16/2013	15:57:00	0.06	0.16				
run6l	11/16/2013	15:57:15	0.16	0.17				
run6l	11/16/2013	15:57:30	2.32	3.29				
run6l	11/16/2013	15:57:45	2.67	12.73				
run6l	11/16/2013	15:58:00	2.64	16.72				
run6	11/16/2013	15:58:15	2.64	17.40				
run6	11/16/2013	15:58:30	2.85	17.54				
run6	11/16/2013	15:58:45	2.69	17.46				
run6	11/16/2013	15:59:00	2.68	17.51				
run6	11/16/2013	15:59:15	2.86	17.52				
run6	11/16/2013	15:59:30	2.99	17.38				
run6	11/16/2013	15:59:45	2.79	17.37				
run6	11/16/2013	16:00:00	2.77	17.49				
run6	11/16/2013	16:00:15	2.91	17.45				
run6	11/16/2013	16:00:30	3.12	17.32				
run6	11/16/2013	16:00:45	3.17	17.19				
run6	11/16/2013	16:01:00	3.16	17.13				
run6	11/16/2013	16:01:15	3.03	17.15				
run6	11/16/2013	16:01:30	2.96	17.19				
run6	11/16/2013	16:01:45	3.03	17.26				
run6	11/16/2013	16:02:00	3.24	17.24				
run6	11/16/2013	16:02:15	3.43	17.08				
run6	11/16/2013	16:02:30	3.43	16.91				
run6	11/16/2013	16:02:45	3.25	16.87				
run6	11/16/2013	16:03:00	3.26	16.97				
run6	11/16/2013	16:03:15	3.12	17.04				
run6	11/16/2013	16:03:30	3.21	17.14				
run6	11/16/2013	16:03:45	3.43	17.07				
run6	11/16/2013	16:04:00	3.50	16.85				
run6	11/16/2013	16:04:15	3.56	16.77				
run6	11/16/2013	16:04:30	3.45	16.78				
run6	11/16/2013	16:04:45	3.10	16.89				
run6	11/16/2013	16:05:00	3.15	17.11				
run6	11/16/2013	16:05:15	3.26	17.06				
run6	11/16/2013	16:05:30	3.34	16.98				
run6	11/16/2013	16:05:45	3.33	16.96				
run6	11/16/2013	16:06:00	3.23	17.01				
run6	11/16/2013	16:06:15	3.15	17.06				
run6	11/16/2013	16:06:30	3.10	17.10				
run6	11/16/2013	16:06:45	3.14	17.11				
run6	11/16/2013	16:07:00	3.04	17.16				
run6	11/16/2013	16:07:15	3.19	17.20				
run6	11/16/2013	16:07:30	3.30	17.07				
run6	11/16/2013	16:07:45	3.30	16.96				
run6	11/16/2013	16:08:00	3.35	16.95				
run6	11/16/2013	16:08:15	3.49	16.88				
run6	11/16/2013	16:08:30	3.42	16.84				
run6	11/16/2013	16:08:45	3.34	16.88				
run6	11/16/2013	16:09:00	3.33	16.89				
run6	11/16/2013	16:09:15	3.38	16.93				
run6	11/16/2013	16:09:30	3.45	16.90				
run6	11/16/2013	16:09:45	3.50	16.83				
run6	11/16/2013	16:10:00	3.20	16.84				
run6	11/16/2013	16:10:15	2.98	17.01				
run6	11/16/2013	16:10:30	2.97	17.26				
run6	11/16/2013	16:10:45	3.02	17.30				
run6	11/16/2013	16:11:00	3.12	17.25				
run6	11/16/2013	16:11:15	3.00	17.19				
run6	11/16/2013	16:11:30	3.03	17.21				
run6	11/16/2013	16:11:45	3.21	17.17				
run6	11/16/2013	16:12:00	3.19	17.09				
run6	11/16/2013	16:12:15	3.21	17.08				
run6	11/16/2013	16:12:30	3.00	17.11				
run6	11/16/2013	16:12:45	2.98	17.18				
run6	11/16/2013	16:13:00	3.05	17.26				
run6	11/16/2013	16:13:15	3.23	17.21				
run6	11/16/2013	16:13:30	3.19	17.07				
run6	11/16/2013	16:13:45	2.98	17.10				
run6	11/16/2013	16:14:00	2.95	17.21				
run6	11/16/2013	16:14:15	2.97	17.32				
run6	11/16/2013	16:14:30	3.04	17.31				

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run6	11/16/2013	16:14:45	2.88	17.29
run6	11/16/2013	16:15:00	2.81	17.38
run6	11/16/2013	16:15:15	2.97	17.38
run6	11/16/2013	16:15:30	2.91	17.30
run6	11/16/2013	16:15:45	2.70	17.39
run6	11/16/2013	16:16:00	2.71	17.56
run6	11/16/2013	16:16:15	2.95	17.50
run6	11/16/2013	16:16:30	3.02	17.28
run6	11/16/2013	16:16:45	2.82	17.28
run6	11/16/2013	16:17:00	2.83	17.46
run6	11/16/2013	16:17:15	2.85	17.48
run6	11/16/2013	16:17:30	2.99	17.40
run6	11/16/2013	16:17:45	3.23	17.24
run6	11/16/2013	16:18:00	3.37	17.04
run6	11/16/2013	16:18:15	3.32	16.92
run6	11/16/2013	16:18:30	3.14	16.98
run6	11/16/2013	16:18:45	3.07	17.10
run6	11/16/2013	16:19:00	3.06	17.13
run6	11/16/2013	16:19:15	3.06	17.17
run6	11/16/2013	16:19:30	3.01	17.24
run6	11/16/2013	16:19:45	3.11	17.22
run6	11/16/2013	16:20:00	3.11	17.14
run6	11/16/2013	16:20:15	2.90	17.14
run6	11/16/2013	16:20:30	2.81	17.35
run6	11/16/2013	16:20:45	2.96	17.42
run6	11/16/2013	16:21:00	2.91	17.31
run6	11/16/2013	16:21:15	2.78	17.33
run6	11/16/2013	16:21:30	2.83	17.44
run6	11/16/2013	16:21:45	2.83	17.45
run6	11/16/2013	16:22:00	2.71	17.49
run6	11/16/2013	16:22:15	2.82	17.51
run6	11/16/2013	16:22:30	3.02	17.37
run6	11/16/2013	16:22:45	2.84	17.21
run6	11/16/2013	16:23:00	3.12	17.16
run6	11/16/2013	16:23:15	3.14	17.15
run6	11/16/2013	16:23:30	3.26	17.10
run6	11/16/2013	16:23:45	3.34	16.96
run6	11/16/2013	16:24:00	3.26	16.94
run6	11/16/2013	16:24:15	3.26	17.00
run6	11/16/2013	16:24:30	3.38	16.96
run6	11/16/2013	16:24:45	3.21	16.85
run6	11/16/2013	16:25:00	3.06	16.98
run6	11/16/2013	16:25:15	3.03	17.17
run6	11/16/2013	16:25:30	2.99	17.24
run6	11/16/2013	16:25:45	2.94	17.26
run6	11/16/2013	16:26:00	2.87	17.28
run6	11/16/2013	16:26:15	2.82	17.36
run6	11/16/2013	16:26:30	2.81	17.44
run6	11/16/2013	16:26:45	2.94	17.43
run6	11/16/2013	16:27:00	2.77	17.37
run6	11/16/2013	16:27:15	2.79	17.46
run6	11/16/2013	16:27:30	2.91	17.47
run6	11/16/2013	16:27:45	2.90	17.42
run6	11/16/2013	16:28:00	2.90	17.38
run6	11/16/2013	16:28:15	2.88	17.34
run6	11/16/2013	16:28:30	2.81	17.38
run6	11/16/2013	16:28:45	2.92	17.43
run6	11/16/2013	16:29:00	3.10	17.36
run6	11/16/2013	16:29:15	3.35	17.17
run6	11/16/2013	16:29:30	3.47	16.91
run6	11/16/2013	16:29:45	3.59	16.77
run6	11/16/2013	16:30:00	3.56	16.71
run6	11/16/2013	16:30:15	3.47	16.74
run6	11/16/2013	16:30:30	3.28	16.80
run6	11/16/2013	16:30:45	3.11	16.94
run6	11/16/2013	16:31:00	3.05	17.16
run6	11/16/2013	16:31:15	3.07	17.24
run6	11/16/2013	16:31:30	3.19	17.20
run6	11/16/2013	16:31:45	3.15	17.08
run6	11/16/2013	16:32:00	3.12	17.09
run6	11/16/2013	16:32:15	3.14	17.16
run6	11/16/2013	16:32:30	3.24	17.12
run6	11/16/2013	16:32:45	3.30	17.04
run6	11/16/2013	16:33:00	3.35	16.91
run6	11/16/2013	16:33:15	3.03	16.96
run6	11/16/2013	16:33:30	2.95	17.23
run6	11/16/2013	16:33:45	2.88	17.38
run6	11/16/2013	16:34:00	2.72	17.45
run6	11/16/2013	16:34:15	2.70	17.53
run6	11/16/2013	16:34:30	2.92	17.53
run6	11/16/2013	16:34:45	2.99	17.42
run6	11/16/2013	16:35:00	3.13	17.31
run6	11/16/2013	16:35:15	3.13	17.21
run6	11/16/2013	16:35:30	3.12	17.14
run6	11/16/2013	16:35:45	3.18	17.15
run6	11/16/2013	16:36:00	3.13	17.15
run6	11/16/2013	16:36:15	2.44	17.24
run6	11/16/2013	16:36:30	2.84	17.45
run6	11/16/2013	16:36:45	2.95	17.44
run6	11/16/2013	16:37:00	3.18	17.32
run6	11/16/2013	16:37:15	3.17	17.17
run6	11/16/2013	16:37:30	3.19	17.18
run6	11/16/2013	16:37:45	3.37	17.13
run6	11/16/2013	16:38:00	3.25	17.01
run6	11/16/2013	16:38:15	3.09	17.07
run6	11/16/2013	16:38:30	3.07	17.24
run6	11/16/2013	16:38:45	3.16	17.27
run6	11/16/2013	16:39:00	3.14	17.23

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run6	11/16/2013	16:39:15	3.11	17.20
run6	11/16/2013	16:39:30	3.06	17.20
run6	11/16/2013	16:39:45	3.25	17.24
run6	11/16/2013	16:40:00	3.32	17.13
run6	11/16/2013	16:40:15	3.26	17.10
run6	11/16/2013	16:40:30	3.31	17.12
run6	11/16/2013	16:40:45	3.29	17.03
run6	11/16/2013	16:41:00	3.12	17.10
run6	11/16/2013	16:41:15	3.05	17.27
run6	11/16/2013	16:41:30	3.17	17.33
run6	11/16/2013	16:41:45	3.30	17.21
run6	11/16/2013	16:42:00	3.33	17.04
run6	11/16/2013	16:42:15	3.28	17.04
run6	11/16/2013	16:42:30	3.28	17.12
run6	11/16/2013	16:42:45	3.24	17.14
run6	11/16/2013	16:43:00	3.28	17.15
run6	11/16/2013	16:43:15	3.32	17.08
run6	11/16/2013	16:43:30	3.33	17.06
run6	11/16/2013	16:43:45	3.25	17.08
run6	11/16/2013	16:44:00	3.21	17.17
run6	11/16/2013	16:44:15	3.11	17.24
run6	11/16/2013	16:44:30	3.08	17.26
run6	11/16/2013	16:44:45	3.05	17.30
run6	11/16/2013	16:45:00	3.04	17.38
run6	11/16/2013	16:45:15	3.18	17.38
run6	11/16/2013	16:45:30	3.17	17.27
run6	11/16/2013	16:45:45	3.15	17.21
run6	11/16/2013	16:46:00	3.11	17.24
run6	11/16/2013	16:46:15	3.11	17.31
run6	11/16/2013	16:46:30	3.13	17.32
run6	11/16/2013	16:46:45	3.19	17.31
run6	11/16/2013	16:47:00	3.31	17.16
run6	11/16/2013	16:47:15	3.07	17.15
run6	11/16/2013	16:47:30	2.96	17.36
run6	11/16/2013	16:47:45	2.91	17.49
run6	11/16/2013	16:48:00	2.97	17.48
run6	11/16/2013	16:48:15	2.96	17.41
run6	11/16/2013	16:48:30	2.97	17.46
run6	11/16/2013	16:48:45	2.95	17.48
run6	11/16/2013	16:49:00	2.98	17.50
run6	11/16/2013	16:49:15	3.01	17.41
run6	11/16/2013	16:49:30	2.93	17.39
run6	11/16/2013	16:49:45	2.94	17.47
run6	11/16/2013	16:50:00	3.07	17.45
run6	11/16/2013	16:50:15	3.11	17.36
run6	11/16/2013	16:50:30	3.00	17.29
run6	11/16/2013	16:50:45	2.98	17.37
run6	11/16/2013	16:51:00	3.03	17.42
run6	11/16/2013	16:51:15	3.23	17.37
run6	11/16/2013	16:51:30	3.44	17.17
run6	11/16/2013	16:51:45	3.29	16.98
run6	11/16/2013	16:52:00	3.01	17.12
run6	11/16/2013	16:52:15	2.91	17.39
run6	11/16/2013	16:52:30	3.05	17.49
run6	11/16/2013	16:52:45	3.12	17.34
run6	11/16/2013	16:53:00	3.04	17.25
run6	11/16/2013	16:53:15	3.00	17.35
run6	11/16/2013	16:53:30	3.18	17.36
run6	11/16/2013	16:53:45	3.12	17.23
run6	11/16/2013	16:54:00	2.84	17.29
run6	11/16/2013	16:54:15	2.79	17.47
run6	11/16/2013	16:54:30	2.79	17.62
run6	11/16/2013	16:54:45	2.76	17.65
run6	11/16/2013	16:55:00	2.84	17.65
run6	11/16/2013	16:55:15	2.89	17.56
run6	11/16/2013	16:55:30	2.97	17.49
run6	11/16/2013	16:55:45	3.02	17.45
run6	11/16/2013	16:56:00	3.10	17.38
run6	11/16/2013	16:56:15	3.14	17.27
run6	11/16/2013	16:56:30	3.18	17.20
run6	11/16/2013	16:56:45	3.18	17.19
run6	11/16/2013	16:57:00	3.17	17.22
run6	11/16/2013	16:57:15	3.25	17.19
run6	11/16/2013	16:57:30	3.09	17.11
run6	11/16/2013	16:57:45	3.16	17.21
run6	11/16/2013	16:58:00	3.28	17.19
run6	11/16/2013	16:58:15	3.25	17.11
run6	11/16/2013	16:58:30	3.31	17.11
run6	11/16/2013	16:58:45	3.25	17.04
run6	11/16/2013	16:59:00	3.24	17.06
run6	11/16/2013	16:59:15	3.35	17.09
run6	11/16/2013	16:59:30	3.38	17.02
run6	11/16/2013	16:59:45	3.19	17.01
run6	11/16/2013	17:00:00	3.12	17.11
run6	11/16/2013	17:00:15	3.14	17.18
run6	11/16/2013	17:00:30	3.11	17.22
run6	11/16/2013	17:00:45	3.12	17.25
run6	11/16/2013	17:01:00	3.03	17.22
run6	11/16/2013	17:01:15	3.06	17.28
run6	11/16/2013	17:01:30	3.22	17.27
run6	11/16/2013	17:01:45	3.24	17.14
run6	11/16/2013	17:02:00	3.05	17.11
run6	11/16/2013	17:02:15	2.99	17.22
run6	11/16/2013	17:02:30	3.05	17.32
run6	11/16/2013	17:02:45	3.15	17.30
run6	11/16/2013	17:03:00	3.22	17.15
run6	11/16/2013	17:03:15	3.16	17.07
run6	11/16/2013	17:03:30	3.08	17.17

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run6	11/16/2013	17:03:45	2.93	17.29
run6	11/16/2013	17:04:00	2.92	17.42
run6	11/16/2013	17:04:15	2.91	17.40
run6	11/16/2013	17:04:30	2.97	17.37
run6	11/16/2013	17:04:45	2.86	17.39
run6	11/16/2013	17:05:00	2.90	17.47
run6	11/16/2013	17:05:15	2.94	17.44
run6	11/16/2013	17:05:30	3.00	17.34
run6	11/16/2013	17:05:45	3.11	17.27
run6	11/16/2013	17:06:00	3.07	17.23
run6	11/16/2013	17:06:15	3.14	17.24
run6	11/16/2013	17:06:30	3.35	17.12
run6	11/16/2013	17:06:45	3.49	16.92
run6	11/16/2013	17:07:00	3.28	16.82
run6	11/16/2013	17:07:15	3.02	17.02
run6	11/16/2013	17:07:30	2.97	17.28
run6	11/16/2013	17:07:45	3.07	17.31
run6	11/16/2013	17:08:00	3.01	17.21
run6	11/16/2013	17:08:15	2.77	17.30
run6	11/16/2013	17:08:30	2.67	17.53
run6	11/16/2013	17:08:45	2.84	17.57
run6	11/16/2013	17:09:00	2.90	17.43
run6	11/16/2013	17:09:15	2.86	17.38
run6	11/16/2013	17:09:30	2.73	17.44
run6	11/16/2013	17:09:45	2.84	17.51
run6	11/16/2013	17:10:00	2.86	17.47
run6	11/16/2013	17:10:15	2.84	17.39
run6	11/16/2013	17:10:30	2.75	17.42
run6	11/16/2013	17:10:45	2.85	17.51
run6	11/16/2013	17:11:00	2.92	17.45
run6	11/16/2013	17:11:15	3.00	17.36
run6	11/16/2013	17:11:30	3.14	17.21
run6	11/16/2013	17:11:45	3.15	17.10
run6	11/16/2013	17:12:00	3.08	17.11
run6	11/16/2013	17:12:15	3.00	17.19
run6	11/16/2013	17:12:30	2.97	17.27
run6	11/16/2013	17:12:45	3.00	17.27
run6	11/16/2013	17:13:00	3.09	17.21
run6	11/16/2013	17:13:15	3.15	17.18
run6	11/16/2013	17:13:30	3.07	17.13
run6	11/16/2013	17:13:45	3.01	17.16
run6	11/16/2013	17:14:00	2.99	17.16
run6	11/16/2013	17:14:15	2.94	17.21
run6	11/16/2013	17:14:30	3.06	17.29
run6	11/16/2013	17:14:45	3.18	17.19
run6	11/16/2013	17:15:00	3.12	17.10
run6	11/16/2013	17:15:15	3.00	17.11
run6	11/16/2013	17:15:30	2.96	17.21
run6	11/16/2013	17:15:45	3.09	17.25
run6	11/16/2013	17:16:00	3.13	17.18
run6	11/16/2013	17:16:15	2.98	17.16
run6	11/16/2013	17:16:30	2.96	17.22
run6	11/16/2013	17:16:45	2.96	17.24
run6	11/16/2013	17:17:00	2.89	17.30
run6	11/16/2013	17:17:15	2.82	17.38
run6	11/16/2013	17:17:30	2.77	17.47
run6	11/16/2013	17:17:45	2.78	17.47
run6	11/16/2013	17:18:00	2.88	17.42
run6	11/16/2013	17:18:15	2.87	17.41
run6	11/16/2013	17:18:30	2.85	17.40
run6	11/16/2013	17:18:45	2.95	17.42
run6	11/16/2013	17:19:00	3.09	17.23
run6	11/16/2013	17:19:15	2.97	17.15
run6	11/16/2013	17:19:30	2.86	17.29
run6	11/16/2013	17:19:45	2.99	17.38
run6	11/16/2013	17:20:00	3.24	17.25
run6	11/16/2013	17:20:15	3.34	17.00
run6	11/16/2013	17:20:30	3.17	16.89
run6	11/16/2013	17:20:45	3.05	17.09
run6	11/16/2013	17:21:00	3.14	17.18
run6	11/16/2013	17:21:15	3.15	17.11
run6	11/16/2013	17:21:30	3.05	17.07
run6	11/16/2013	17:21:45	3.14	17.15
run6	11/16/2013	17:22:00	3.37	17.12
run6	11/16/2013	17:22:15	3.43	16.92
run6	11/16/2013	17:22:30	3.17	16.87
run6	11/16/2013	17:22:45	3.08	17.01
run6	11/16/2013	17:23:00	3.03	17.15
run6	11/16/2013	17:23:15	2.98	17.25
run6	11/16/2013	17:23:30	3.02	17.26
run6	11/16/2013	17:23:45	2.88	17.26
run6	11/16/2013	17:24:00	2.92	17.34
run6	11/16/2013	17:24:15	3.01	17.33
run6	11/16/2013	17:24:30	3.04	17.28
run6	11/16/2013	17:24:45	2.95	17.27
run6	11/16/2013	17:25:00	3.10	17.23
run6	11/16/2013	17:25:15	3.14	17.16
run6	11/16/2013	17:25:30	3.08	17.16
run6	11/16/2013	17:25:45	3.18	17.19
run6	11/16/2013	17:26:00	3.17	17.10
run6	11/16/2013	17:26:15	3.12	17.05
run6	11/16/2013	17:26:30	3.18	17.09
run6	11/16/2013	17:26:45	3.14	17.12
run6	11/16/2013	17:27:00	3.14	17.12
run6	11/16/2013	17:27:15	3.20	17.09
run6	11/16/2013	17:27:30	3.14	17.02
run6	11/16/2013	17:27:45	3.07	17.11
run6	11/16/2013	17:28:00	3.26	17.15

name	O2		CO2	
sn	1009241630		1009241630	
offset	0		0	
fullscale	100		20	
train	1		1	
gastype	o2 3a		co2 3a	
run6	11/16/2013	17:28:15	3.24	17.05
run6	11/16/2013	17:28:30	3.06	17.05
run6	11/16/2013	17:28:45	3.03	17.13
run6	11/16/2013	17:29:00	3.18	17.20
run6	11/16/2013	17:29:15	3.33	17.10
run6	11/16/2013	17:29:30	3.32	16.95
run6	11/16/2013	17:29:45	3.21	16.92
run6	11/16/2013	17:30:00	3.15	17.00
run6	11/16/2013	17:30:15	3.21	17.06
run6	11/16/2013	17:30:30	3.26	17.07
run6	11/16/2013	17:30:45	3.34	17.02
run6	11/16/2013	17:31:00	3.34	16.91
run6	11/16/2013	17:31:15	3.53	16.85
run6	11/16/2013	17:31:30	3.38	16.82
run6	11/16/2013	17:31:45	3.50	16.85
run6	11/16/2013	17:32:00	3.39	16.77
run6	11/16/2013	17:32:15	3.17	16.83
run6	11/16/2013	17:32:30	3.09	17.06
run6	11/16/2013	17:32:45	3.17	17.15
run6	11/16/2013	17:33:00	3.21	17.11
run6	11/16/2013	17:33:15	3.35	17.01
run6	11/16/2013	17:33:30	3.41	16.86
run6	11/16/2013	17:33:45	3.33	16.88
run6	11/16/2013	17:34:00	3.07	16.99
run6	11/16/2013	17:34:15	3.01	17.04
run6	11/16/2013	17:34:30	3.27	16.96
averun6	11/16/2013	16:23:00	3.08	17.24
scg7	11/16/2013	17:34:45	3.30	16.92 CC334442/cg7
scg7	11/16/2013	17:35:00	3.26	16.95 CC334442/cg7
scg7	11/16/2013	17:35:15	3.06	17.04 CC334442/cg7
scg7	11/16/2013	17:35:30	2.93	15.23 CC334442/cg7
scg7	11/16/2013	17:35:45	0.13	6.18 CC334442/cg7
scg7	11/16/2013	17:36:00	0.01	0.96 CC334442/cg7
scg7	11/16/2013	17:36:15	0.00	0.24 CC334442/cg7
scg7	11/16/2013	17:36:30	-0.02	0.13 CC334442/cg7
scg7	11/16/2013	17:36:45	0.03	0.10 CC334442/cg7
scg7	11/16/2013	17:37:00	-0.01	0.07 CC334442/cg7
scg7	11/16/2013	17:37:15	-0.01	0.06 CC334442/cg7
scg7	11/16/2013	17:37:30	-0.01	0.06 CC334442/cg7
scg7	11/16/2013	17:37:45	0.01	0.05 CC334442/cg7
scg7	11/16/2013	17:38:00	-0.01	0.04 CC334442/cg7
scg7	11/16/2013	17:38:15	-0.03	0.04 CC334442/cg7
cospan1	11/16/2013	17:38:15	-0.03	0.04 CC334442/cg7
scg6	11/16/2013	17:38:30	-0.01	0.04 CC365323/cg6
scg6	11/16/2013	17:38:45	-0.02	0.03 CC365323/cg6
scg6	11/16/2013	17:39:00	-0.01	0.03 CC365323/cg6
scg6	11/16/2013	17:39:15	0.56	0.04 CC365323/cg6
scg6	11/16/2013	17:39:30	16.46	3.22 CC365323/cg6
scg6	11/16/2013	17:39:45	19.95	12.89 CC365323/cg6
scg6	11/16/2013	17:40:00	20.08	17.44 CC365323/cg6
scg6	11/16/2013	17:40:15	20.09	18.46 CC365323/cg6
scg6	11/16/2013	17:40:30	20.08	18.72 CC365323/cg6
scg6	11/16/2013	17:40:45	20.21	18.82 CC365323/cg6
scg6	11/16/2013	17:41:00	20.13	18.87 CC365323/cg6
scg6	11/16/2013	17:41:15	20.13	18.87 CC365323/cg6
scg6	11/16/2013	17:41:30	20.16	18.82 CC365323/cg6
co2span1	11/16/2013	17:41:15	20.13	18.87 CC365323/cg6
scg5	11/16/2013	17:41:45	20.14	18.86 CC427756/cg5
scg5	11/16/2013	17:42:00	20.15	18.90 CC427756/cg5
scg5	11/16/2013	17:42:15	20.13	18.90 CC427756/cg5
scg5	11/16/2013	17:42:30	20.13	18.89 CC427756/cg5
scg5	11/16/2013	17:42:45	16.27	18.55 CC427756/cg5
scg5	11/16/2013	17:43:00	9.95	14.20 CC427756/cg5
scg5	11/16/2013	17:43:15	9.93	10.40 CC427756/cg5
scg5	11/16/2013	17:43:30	9.95	9.76 CC427756/cg5
scg5	11/16/2013	17:43:45	9.91	9.72 CC427756/cg5
scg5	11/16/2013	17:44:00	9.92	9.67 CC427756/cg5
scg5	11/16/2013	17:44:15	9.91	9.67 CC427756/cg5
scg5	11/16/2013	17:44:30	9.92	9.68 CC427756/cg5
scg5	11/16/2013	17:44:45	9.93	9.68 CC427756/cg5
scg5	11/16/2013	17:45:00	9.92	9.66 CC427756/cg5
scg5	11/16/2013	17:45:15	9.89	9.65 CC427756/cg5
scg5	11/16/2013	17:45:30	9.93	9.65 CC427756/cg5
o2span1	11/16/2013	17:45:15	9.89	9.65 CC427756/cg5
scg1	11/16/2013	17:45:45	9.92	9.66 CC281765/cg1
scg1	11/16/2013	17:46:00	9.90	9.67 CC281765/cg1
scg1	11/16/2013	17:46:15	9.90	9.65 CC281765/cg1
scg1	11/16/2013	17:46:30	9.91	9.62 CC281765/cg1
scg1	11/16/2013	17:46:45	4.45	9.27 CC281765/cg1
scg1	11/16/2013	17:47:00	0.12	3.85 CC281765/cg1
scg1	11/16/2013	17:47:15	0.07	0.86 CC281765/cg1
scg1	11/16/2013	17:47:30	0.01	0.19 CC281765/cg1
scg1	11/16/2013	17:47:45	0.02	0.11 CC281765/cg1
scg1	11/16/2013	17:48:00	-0.01	0.08 CC281765/cg1
scg1	11/16/2013	17:48:15	0.01	0.07 CC281765/cg1
scg1	11/16/2013	17:48:30	-0.01	0.05 CC281765/cg1
scg1	11/16/2013	17:48:45	0.01	0.04 CC281765/cg1
scg1	11/16/2013	17:49:00	0.00	0.03 CC281765/cg1
scg1	11/16/2013	17:49:15	-0.02	0.03 CC281765/cg1
cozero1	11/16/2013	17:49:15	-0.02	0.03 CC281765/cg1
co2zero1	11/16/2013	17:49:15	-0.02	0.03 CC281765/cg1
o2zero1	11/16/2013	17:49:15	-0.02	0.03 CC281765/cg1
so2zero				
so2span				
noxzero				
noxspan				
co2zero				
co2span				

name	O2	CO2
sn	1009241630	1009241630
offset	0	0
fullscale	100	20
train	1	1
gastype	o2 3a	co2 3a
o2zero		
o2span		
thczero		
thcspan		
cozero		
cospan		
so2zero	Parameter Not Found	
so2mid	Parameter Not Found	
so2high	Parameter Not Found	
noxzero	Parameter Not Found	
noxlow	Parameter Not Found	
noxmid	Parameter Not Found	
noxhigh	Parameter Not Found	
co2zero	Parameter Not Found	
co2mid	Parameter Not Found	
co2high	Parameter Not Found	
o2zero	Parameter Not Found	
o2mid	Parameter Not Found	
o2high	Parameter Not Found	
thczero	Parameter Not Found	
thclow	Parameter Not Found	
thcmid	Parameter Not Found	
thchigh	Parameter Not Found	
coezero	Parameter Not Found	
colow	Parameter Not Found	
comid	Parameter Not Found	
cohig	Parameter Not Found	
End		

Appendix F: CEMS Run Data

Gaseous and High Load Flow CEMS Data

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 10:14
End of Report: 11/17/2013 10:35



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	C0 Uncorr	C0 Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	C0	C0	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 10:14	3.2	60.0	0.0474	33.0	0.0431	0.0	0.0000
11/17/2013 10:15	3.3	59.0	0.0469	34.0	0.0447	0.0	0.0000
11/17/2013 10:16	3.2	59.0	0.0468	34.0	0.0444	0.0	0.0000
11/17/2013 10:17	3.1	84.0	0.0660	34.0	0.0442	0.0	0.0000
11/17/2013 10:18	3.2	84.0	0.0662	34.0	0.0442	0.0	0.0000
11/17/2013 10:19	3.4	65.0	0.0520	35.0	0.0465	0.0	0.0000
11/17/2013 10:20	3.3	58.0	0.0465	35.0	0.0457	0.0	0.0000
11/17/2013 10:21	3.2	68.0	0.0542	35.0	0.0455	0.0	0.0000
11/17/2013 10:22	3.2	61.0	0.0488	36.0	0.0470	0.0	0.0000
11/17/2013 10:23	3.1	71.0	0.0559	36.0	0.0467	0.0	0.0000
11/17/2013 10:24	3.2	79.0	0.0629	36.0	0.0472	0.0	0.0000
11/17/2013 10:25	3.4	49.0	0.0392	36.0	0.0475	0.0	0.0000
11/17/2013 10:26	3.2	80.0	0.0632	35.0	0.0453	0.0	0.0000
11/17/2013 10:27	3.0	100.0	0.0783	34.0	0.0438	0.0	0.0000
11/17/2013 10:28	3.2	58.0	0.0456	34.0	0.0441	0.0	0.0000
11/17/2013 10:29	3.2	69.0	0.0546	34.0	0.0446	0.0	0.0000
11/17/2013 10:30	3.1	59.0	0.0462	34.0	0.0438	0.0	0.0000
11/17/2013 10:31	3.0	66.0	0.0517	34.0	0.0437	0.0	0.0000
11/17/2013 10:32	3.0	69.0	0.0542	34.0	0.0438	0.0	0.0000
11/17/2013 10:33	3.1	73.0	0.0577	33.0	0.0427	0.0	0.0000
11/17/2013 10:34	3.0	96.0	0.0754	33.0	0.0427	0.0	0.0000
11/17/2013 10:35	3.1	93.0	0.0732	33.0	0.0425	0.0	0.0000
Period Average =	3.2	70.9	0.0560	34.4	0.0447	0.0	0.0000
Period Max Value =	3.4	100.0	0.0783	36.0	0.0475	0.0	0.0000
Period Min Value =	3.0	49.0	0.0392	33.0	0.0425	0.0	0.0000
Period Totals =	6.9700E+1	1.5600E+3	1.2329E+0	7.5600E+2	9.8370E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 10:14

End of Report: 11/17/2013 10:35



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-10000000	0-100	0-116
11/17/2013 10:14	19044600	19.0	101.7
11/17/2013 10:15	18960000	21.0	101.7
11/17/2013 10:16	18363600	25.0	101.8
11/17/2013 10:17	17862600	19.0	102.1
11/17/2013 10:18	17732400	22.0	101.9
11/17/2013 10:19	17087400	18.0	102.1
11/17/2013 10:20	17320800	21.0	102.0
11/17/2013 10:21	17158200	19.0	101.7
11/17/2013 10:22	16353600	22.0	102.2
11/17/2013 10:23	16877400	23.0	102.1
11/17/2013 10:24	17996400	19.0	102.0
11/17/2013 10:25	17824800	18.0	102.0
11/17/2013 10:26	17964000	25.0	101.9
11/17/2013 10:27	18093600	17.0	102.0
11/17/2013 10:28	17773800	22.0	101.9
11/17/2013 10:29	17521200	19.0	101.9
11/17/2013 10:30	17757600	26.0	101.8
11/17/2013 10:31	18501000	20.0	102.0
11/17/2013 10:32	18175800	20.0	101.9
11/17/2013 10:33	17868000	19.0	101.9
11/17/2013 10:34	18398400	23.0	102.1
11/17/2013 10:35	18297600	19.0	102.0
Period Average =	17860582	20.7	101.9
Period Max Value =	19044600	26.0	102.2
Period Min Value =	16353600	17.0	101.7
Period Totals =	3.9293E+8	4.5600E+2	2.2427E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 10:55
End of Report: 11/17/2013 11:16



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	C0 Uncorr	C0 Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	C0	C0	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 10:55	3.2	88.0	0.0696	33.0	0.0427	0.0	0.0000
11/17/2013 10:56	3.0	89.0	0.0698	33.0	0.0423	0.0	0.0000
11/17/2013 10:57	3.3	61.0	0.0487	33.0	0.0432	0.0	0.0000
11/17/2013 10:58	3.3	60.0	0.0481	33.0	0.0430	0.0	0.0000
11/17/2013 10:59	3.3	69.0	0.0551	33.0	0.0430	0.0	0.0000
11/17/2013 11:00	3.1	94.0	0.0740	33.0	0.0424	0.0	0.0000
11/17/2013 11:01	3.2	87.0	0.0691	34.0	0.0444	0.0	0.0000
11/17/2013 11:02	3.2	92.0	0.0727	34.0	0.0446	0.0	0.0000
11/17/2013 11:03	3.3	76.0	0.0609	35.0	0.0458	0.0	0.0000
11/17/2013 11:04	3.3	70.0	0.0558	36.0	0.0474	0.0	0.0000
11/17/2013 11:05	3.6	54.0	0.0434	36.0	0.0477	0.0	0.0000
11/17/2013 11:06	3.5	58.0	0.0465	36.0	0.0480	0.0	0.0000
11/17/2013 11:07	3.5	49.0	0.0393	35.0	0.0463	0.0	0.0000
11/17/2013 11:08	3.4	67.0	0.0536	35.0	0.0458	0.0	0.0000
11/17/2013 11:09	3.2	78.0	0.0619	34.0	0.0441	0.0	0.0000
11/17/2013 11:10	3.3	55.0	0.0441	34.0	0.0449	0.0	0.0000
11/17/2013 11:11	3.2	63.0	0.0496	33.0	0.0432	0.0	0.0000
11/17/2013 11:12	3.1	86.0	0.0682	33.0	0.0427	0.0	0.0000
11/17/2013 11:13	3.1	65.0	0.0510	33.0	0.0431	0.0	0.0000
11/17/2013 11:14	3.1	95.0	0.0752	32.0	0.0411	0.0	0.0000
11/17/2013 11:15	3.0	93.0	0.0729	32.0	0.0414	0.0	0.0000
11/17/2013 11:16	3.0	89.0	0.0701	33.0	0.0422	0.0	0.0000
Period Average =	3.2	74.5	0.0591	33.8	0.0441	0.0	0.0000
Period Max Value =	3.6	95.0	0.0752	36.0	0.0480	0.0	0.0000
Period Min Value =	3.0	49.0	0.0393	32.0	0.0411	0.0	0.0000
Period Totals =	7.1200E+1	1.6380E+3	1.2996E+0	7.4300E+2	9.6930E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 10:55

End of Report: 11/17/2013 11:16



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-1000000	0-100	0-116
11/17/2013 10:55	18408600	25.0	102.0
11/17/2013 10:56	18159600	20.0	102.1
11/17/2013 10:57	17685600	21.0	101.8
11/17/2013 10:58	18351600	18.0	101.7
11/17/2013 10:59	18403200	21.0	102.2
11/17/2013 11:00	18640800	19.0	101.9
11/17/2013 11:01	19228200	22.0	102.2
11/17/2013 11:02	19425600	22.0	102.3
11/17/2013 11:03	19395000	21.0	101.9
11/17/2013 11:04	19181400	18.0	102.3
11/17/2013 11:05	19661400	19.0	102.1
11/17/2013 11:06	19084800	20.0	101.9
11/17/2013 11:07	18694200	23.0	102.1
11/17/2013 11:08	18693600	24.0	101.9
11/17/2013 11:09	18070200	22.0	102.1
11/17/2013 11:10	17618400	21.0	102.1
11/17/2013 11:11	17484600	22.0	102.1
11/17/2013 11:12	17884800	19.0	101.9
11/17/2013 11:13	17668800	23.0	102.0
11/17/2013 11:14	17812200	23.0	102.1
11/17/2013 11:15	17583600	20.0	102.0
11/17/2013 11:16	17896800	20.0	102.0
Period Average =	18410591	21.0	102.0
Period Max Value =	19661400	25.0	102.3
Period Min Value =	17484600	18.0	101.7
Period Totals =	4.0503E+8	4.6300E+2	2.2447E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 11:40
End of Report: 11/17/2013 12:01



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	CO Uncorr	CO Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	CO	CO	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 11:40	3.2	68.0	0.0538	34.0	0.0446	0.0	0.0000
11/17/2013 11:41	2.9	125.0	0.0979	34.0	0.0434	0.0	0.0000
11/17/2013 11:42	3.1	82.0	0.0647	34.0	0.0436	0.0	0.0000
11/17/2013 11:43	3.2	79.0	0.0627	34.0	0.0446	0.0	0.0000
11/17/2013 11:44	3.4	62.0	0.0500	34.0	0.0445	0.0	0.0000
11/17/2013 11:45	3.4	57.0	0.0456	34.0	0.0448	0.0	0.0000
11/17/2013 11:46	3.3	58.0	0.0466	34.0	0.0442	0.0	0.0000
11/17/2013 11:47	3.3	66.0	0.0525	34.0	0.0447	0.0	0.0000
11/17/2013 11:48	3.3	51.0	0.0406	34.0	0.0446	0.0	0.0000
11/17/2013 11:49	3.3	57.0	0.0455	33.0	0.0432	0.0	0.0000
11/17/2013 11:50	3.5	49.0	0.0395	34.0	0.0450	0.0	0.0000
11/17/2013 11:51	3.4	60.0	0.0481	34.0	0.0450	0.0	0.0000
11/17/2013 11:52	3.5	49.0	0.0396	34.0	0.0454	0.0	0.0000
11/17/2013 11:53	3.1	69.0	0.0548	34.0	0.0437	0.0	0.0000
11/17/2013 11:54	3.2	62.0	0.0494	35.0	0.0457	0.0	0.0000
11/17/2013 11:55	3.3	54.0	0.0433	35.0	0.0456	0.0	0.0000
11/17/2013 11:56	3.4	53.0	0.0426	35.0	0.0464	0.0	0.0000
11/17/2013 11:57	3.3	54.0	0.0431	35.0	0.0461	0.0	0.0000
11/17/2013 11:58	3.1	68.0	0.0538	35.0	0.0453	0.0	0.0000
11/17/2013 11:59	3.1	90.0	0.0708	34.0	0.0440	0.0	0.0000
11/17/2013 12:00	3.5	49.0	0.0399	35.0	0.0464	0.0	0.0000
11/17/2013 12:01	3.4	45.0	0.0362	34.0	0.0447	0.0	0.0000
Period Average =	3.3	64.0	0.0510	34.2	0.0448	0.0	0.0000
Period Max Value =	3.5	125.0	0.0979	35.0	0.0464	0.0	0.0000
Period Min Value =	2.9	45.0	0.0362	33.0	0.0432	0.0	0.0000
Period Totals =	7.2200E+1	1.4070E+3	1.1210E+0	7.5300E+2	9.8550E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 11:40

End of Report: 11/17/2013 12:01



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-10000000	0-100	0-116
11/17/2013 11:40	18012600	28.0	101.9
11/17/2013 11:41	17892000	24.0	102.3
11/17/2013 11:42	18071400	23.0	101.9
11/17/2013 11:43	18524400	22.0	102.4
11/17/2013 11:44	17887800	21.0	102.4
11/17/2013 11:45	18480600	24.0	101.7
11/17/2013 11:46	18282600	24.0	102.1
11/17/2013 11:47	18402600	24.0	102.1
11/17/2013 11:48	17787000	24.0	102.2
11/17/2013 11:49	17698800	21.0	102.3
11/17/2013 11:50	18258600	23.0	102.2
11/17/2013 11:51	18316200	21.0	102.0
11/17/2013 11:52	18178800	26.0	102.0
11/17/2013 11:53	18466800	26.0	101.7
11/17/2013 11:54	18679800	22.0	102.1
11/17/2013 11:55	19001400	24.0	102.3
11/17/2013 11:56	19075200	24.0	101.8
11/17/2013 11:57	19003800	21.0	101.9
11/17/2013 11:58	19090800	26.0	101.9
11/17/2013 11:59	18906600	23.0	102.2
11/17/2013 12:00	19138800	20.0	102.0
11/17/2013 12:01	18845400	24.0	101.7
Period Average =	18454636	23.4	102.1
Period Max Value =	19138800	28.0	102.4
Period Min Value =	17698800	20.0	101.7
Period Totals =	4.0600E+8	5.1500E+2	2.2451E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 12:20
End of Report: 11/17/2013 12:41



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	C0 Uncorr	C0 Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	C0	C0	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 12:20	3.0	108.0	0.0847	34.0	0.0435	0.0	0.0000
11/17/2013 12:21	3.4	72.0	0.0576	34.0	0.0450	0.0	0.0000
11/17/2013 12:22	3.4	74.0	0.0591	34.0	0.0451	0.0	0.0000
11/17/2013 12:23	3.4	67.0	0.0535	34.0	0.0446	0.0	0.0000
11/17/2013 12:24	3.3	62.0	0.0497	34.0	0.0442	0.0	0.0000
11/17/2013 12:25	3.3	55.0	0.0439	34.0	0.0447	0.0	0.0000
11/17/2013 12:26	3.1	88.0	0.0696	34.0	0.0443	0.0	0.0000
11/17/2013 12:27	3.2	57.0	0.0450	34.0	0.0443	0.0	0.0000
11/17/2013 12:28	3.3	54.0	0.0433	33.0	0.0433	0.0	0.0000
11/17/2013 12:29	3.3	44.0	0.0351	34.0	0.0447	0.0	0.0000
11/17/2013 12:30	3.0	83.0	0.0652	34.0	0.0438	0.0	0.0000
11/17/2013 12:31	3.2	60.0	0.0478	33.0	0.0432	0.0	0.0000
11/17/2013 12:32	3.3	58.0	0.0465	33.0	0.0433	0.0	0.0000
11/17/2013 12:33	3.1	74.0	0.0584	33.0	0.0425	0.0	0.0000
11/17/2013 12:34	3.3	57.0	0.0455	33.0	0.0433	0.0	0.0000
11/17/2013 12:35	3.3	59.0	0.0470	33.0	0.0432	0.0	0.0000
11/17/2013 12:36	3.2	66.0	0.0520	33.0	0.0428	0.0	0.0000
11/17/2013 12:37	3.0	91.0	0.0716	34.0	0.0439	0.0	0.0000
11/17/2013 12:38	3.5	61.0	0.0494	34.0	0.0451	0.0	0.0000
11/17/2013 12:39	3.6	46.0	0.0372	35.0	0.0465	0.0	0.0000
11/17/2013 12:40	3.6	49.0	0.0396	35.0	0.0467	0.0	0.0000
11/17/2013 12:41	3.6	44.0	0.0360	35.0	0.0470	0.0	0.0000
Period Average =	3.3	65.0	0.0517	33.8	0.0443	0.0	0.0000
Period Max Value =	3.6	108.0	0.0847	35.0	0.0470	0.0	0.0000
Period Min Value =	3.0	44.0	0.0351	33.0	0.0425	0.0	0.0000
Period Totals =	7.2400E+1	1.4290E+3	1.1377E+0	7.4400E+2	9.7500E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 12:20

End of Report: 11/17/2013 12:41



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-1000000	0-100	0-116
11/17/2013 12:20	18362400	23.0	102.2
11/17/2013 12:21	18397800	24.0	101.9
11/17/2013 12:22	18662400	24.0	101.9
11/17/2013 12:23	18400200	26.0	102.1
11/17/2013 12:24	18304800	24.0	102.2
11/17/2013 12:25	18428400	24.0	102.4
11/17/2013 12:26	18525600	26.0	102.2
11/17/2013 12:27	18640800	22.0	101.7
11/17/2013 12:28	18013800	24.0	102.0
11/17/2013 12:29	18821400	27.0	101.8
11/17/2013 12:30	18570000	27.0	101.9
11/17/2013 12:31	18433800	22.0	101.9
11/17/2013 12:32	18764400	27.0	101.7
11/17/2013 12:33	18587400	23.0	101.9
11/17/2013 12:34	19242600	21.0	102.1
11/17/2013 12:35	19052400	24.0	102.1
11/17/2013 12:36	19026600	25.0	102.2
11/17/2013 12:37	19030800	20.0	102.2
11/17/2013 12:38	19093200	20.0	102.1
11/17/2013 12:39	19208400	25.0	102.2
11/17/2013 12:40	18795600	25.0	101.9
11/17/2013 12:41	18772800	19.0	102.2
Period Average =	18687982	23.7	102.0
Period Max Value =	19242600	27.0	102.4
Period Min Value =	18013800	19.0	101.7
Period Totals =	4.1113E+8	5.2200E+2	2.2448E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 13:06
End of Report: 11/17/2013 13:27



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	C0 Uncorr	C0 Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	C0	C0	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 13:06	3.2	101.0	0.0800	34.0	0.0441	0.0	0.0000
11/17/2013 13:07	3.3	75.0	0.0599	33.0	0.0435	0.0	0.0000
11/17/2013 13:08	3.3	69.0	0.0548	33.0	0.0435	0.0	0.0000
11/17/2013 13:09	3.1	81.0	0.0637	33.0	0.0430	0.0	0.0000
11/17/2013 13:10	3.2	74.0	0.0588	34.0	0.0445	0.0	0.0000
11/17/2013 13:11	3.1	74.0	0.0585	34.0	0.0437	0.0	0.0000
11/17/2013 13:12	3.2	78.0	0.0621	33.0	0.0429	0.0	0.0000
11/17/2013 13:13	3.4	65.0	0.0525	33.0	0.0431	0.0	0.0000
11/17/2013 13:14	3.4	58.0	0.0464	33.0	0.0433	0.0	0.0000
11/17/2013 13:15	3.5	41.0	0.0329	34.0	0.0452	0.0	0.0000
11/17/2013 13:16	3.3	68.0	0.0538	33.0	0.0435	0.0	0.0000
11/17/2013 13:17	3.3	59.0	0.0474	33.0	0.0434	0.0	0.0000
11/17/2013 13:18	3.3	55.0	0.0435	34.0	0.0443	0.0	0.0000
11/17/2013 13:19	3.1	79.0	0.0625	34.0	0.0437	0.0	0.0000
11/17/2013 13:20	3.3	61.0	0.0486	34.0	0.0442	0.0	0.0000
11/17/2013 13:21	3.3	48.0	0.0384	34.0	0.0446	0.0	0.0000
11/17/2013 13:22	3.4	53.0	0.0427	34.0	0.0450	0.0	0.0000
11/17/2013 13:23	3.5	45.0	0.0360	34.0	0.0453	0.0	0.0000
11/17/2013 13:24	3.4	49.0	0.0393	34.0	0.0448	0.0	0.0000
11/17/2013 13:25	3.3	57.0	0.0457	34.0	0.0449	0.0	0.0000
11/17/2013 13:26	3.3	60.0	0.0478	33.0	0.0431	0.0	0.0000
11/17/2013 13:27	3.4	52.0	0.0420	33.0	0.0437	0.0	0.0000
Period Average =	3.3	63.7	0.0508	33.5	0.0440	0.0	0.0000
Period Max Value =	3.5	101.0	0.0800	34.0	0.0453	0.0	0.0000
Period Min Value =	3.1	41.0	0.0329	33.0	0.0429	0.0	0.0000
Period Totals =	7.2600E+1	1.4020E+3	1.1173E+0	7.3800E+2	9.6730E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 13:00

End of Report: 11/17/2013 13:21



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-10000000	0-100	0-116
11/17/2013 13:00	19297800	21.0	102.2
11/17/2013 13:01	19373400	22.0	102.0
11/17/2013 13:02	19590000	22.0	102.0
11/17/2013 13:03	19033800	24.0	101.7
11/17/2013 13:04	19234800	26.0	102.1
11/17/2013 13:05	18993600	27.0	102.4
11/17/2013 13:06	18718200	22.0	102.1
11/17/2013 13:07	18573000	24.0	101.9
11/17/2013 13:08	19237200	24.0	102.4
11/17/2013 13:09	19101600	26.0	102.1
11/17/2013 13:10	19284000	25.0	102.1
11/17/2013 13:11	19026600	23.0	101.4
11/17/2013 13:12	18853800	19.0	102.3
11/17/2013 13:13	18532800	24.0	102.0
11/17/2013 13:14	18762600	24.0	102.3
11/17/2013 13:15	18821400	23.0	102.0
11/17/2013 13:16	18231600	24.0	101.7
11/17/2013 13:17	18289800	24.0	102.0
11/17/2013 13:18	18574800	24.0	102.2
11/17/2013 13:19	18697800	23.0	102.1
11/17/2013 13:20	18855000	21.0	102.4
11/17/2013 13:21	18439800	24.0	102.4
Period Average =	18887427	23.5	102.1
Period Max Value =	19590000	27.0	102.4
Period Min Value =	18231600	19.0	101.4
Period Totals =	4.1552E+8	5.1600E+2	2.2458E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 13:51
End of Report: 11/17/2013 14:12



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	CO Uncorr	CO Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	CO	CO	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 13:51	3.2	71.0	0.0563	31.0	0.0402	0.0	0.0000
11/17/2013 13:52	3.1	81.0	0.0638	31.0	0.0404	0.0	0.0000
11/17/2013 13:53	3.2	63.0	0.0500	32.0	0.0420	0.0	0.0000
11/17/2013 13:54	3.3	67.0	0.0532	32.0	0.0418	0.0	0.0000
11/17/2013 13:55	3.3	71.0	0.0569	32.0	0.0421	0.0	0.0000
11/17/2013 13:56	3.1	78.0	0.0617	32.0	0.0416	0.0	0.0000
11/17/2013 13:57	3.2	64.0	0.0507	32.0	0.0420	0.0	0.0000
11/17/2013 13:58	3.4	61.0	0.0490	33.0	0.0438	0.0	0.0000
11/17/2013 13:59	3.4	59.0	0.0474	33.0	0.0434	0.0	0.0000
11/17/2013 14:00	3.4	54.0	0.0431	33.0	0.0431	0.0	0.0000
11/17/2013 14:01	3.3	64.0	0.0511	33.0	0.0435	0.0	0.0000
11/17/2013 14:02	3.2	52.0	0.0413	33.0	0.0429	0.0	0.0000
11/17/2013 14:03	3.3	51.0	0.0408	33.0	0.0431	0.0	0.0000
11/17/2013 14:04	3.4	52.0	0.0417	33.0	0.0434	0.0	0.0000
11/17/2013 14:05	3.2	66.0	0.0523	33.0	0.0428	0.0	0.0000
11/17/2013 14:06	3.1	81.0	0.0636	32.0	0.0413	0.0	0.0000
11/17/2013 14:07	3.2	64.0	0.0511	32.0	0.0415	0.0	0.0000
11/17/2013 14:08	3.2	68.0	0.0541	32.0	0.0414	0.0	0.0000
11/17/2013 14:09	3.2	64.0	0.0506	32.0	0.0414	0.0	0.0000
11/17/2013 14:10	3.5	46.0	0.0368	32.0	0.0423	0.0	0.0000
11/17/2013 14:11	3.1	92.0	0.0722	31.0	0.0400	0.0	0.0000
11/17/2013 14:12	3.2	75.0	0.0596	31.0	0.0408	0.0	0.0000
Period Average =	3.3	65.6	0.0522	32.2	0.0420	0.0	0.0000
Period Max Value =	3.5	92.0	0.0722	33.0	0.0438	0.0	0.0000
Period Min Value =	3.1	46.0	0.0368	31.0	0.0400	0.0	0.0000
Period Totals =	7.1500E+1	1.4440E+3	1.1473E+0	7.0800E+2	9.2480E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 13:51

End of Report: 11/17/2013 14:12



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-10000000	0-100	0-116
11/17/2013 13:51	18102000	25.0	101.8
11/17/2013 13:52	18116400	23.0	102.1
11/17/2013 13:53	18337200	25.0	101.9
11/17/2013 13:54	18289200	21.0	101.9
11/17/2013 13:55	18525000	24.0	101.8
11/17/2013 13:56	18274200	23.0	102.0
11/17/2013 13:57	18379200	25.0	102.0
11/17/2013 13:58	18830400	21.0	102.2
11/17/2013 13:59	18387000	24.0	102.2
11/17/2013 14:00	18856800	24.0	102.0
11/17/2013 14:01	18906000	24.0	102.2
11/17/2013 14:02	18666600	25.0	102.0
11/17/2013 14:03	18367200	21.0	102.0
11/17/2013 14:04	17873400	26.0	102.0
11/17/2013 14:05	18349200	25.0	101.9
11/17/2013 14:06	18403800	23.0	102.3
11/17/2013 14:07	18217800	25.0	102.0
11/17/2013 14:08	18265800	25.0	102.1
11/17/2013 14:09	18258600	22.0	102.1
11/17/2013 14:10	18397200	23.0	102.0
11/17/2013 14:11	18694800	26.0	102.0
11/17/2013 14:12	18555000	25.0	101.8
Period Average =	18411491	23.9	102.0
Period Max Value =	18906000	26.0	102.3
Period Min Value =	17873400	21.0	101.8
Period Totals =	4.0505E+8	5.2500E+2	2.2443E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 14:30
End of Report: 11/17/2013 14:51



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	CO Uncorr	CO Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	CO	CO	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 14:30	3.1	73.0	0.0575	31.0	0.0403	0.0	0.0000
11/17/2013 14:31	3.3	57.0	0.0457	31.0	0.0408	0.0	0.0000
11/17/2013 14:32	3.0	89.0	0.0697	30.0	0.0386	0.0	0.0000
11/17/2013 14:33	3.1	84.0	0.0659	30.0	0.0386	0.0	0.0000
11/17/2013 14:34	3.0	96.0	0.0754	30.0	0.0390	0.0	0.0000
11/17/2013 14:35	3.3	76.0	0.0606	30.0	0.0396	0.0	0.0000
11/17/2013 14:36	3.3	76.0	0.0607	31.0	0.0410	0.0	0.0000
11/17/2013 14:37	3.5	53.0	0.0429	31.0	0.0414	0.0	0.0000
11/17/2013 14:38	3.0	82.0	0.0639	32.0	0.0411	0.0	0.0000
11/17/2013 14:39	3.3	67.0	0.0535	32.0	0.0417	0.0	0.0000
11/17/2013 14:40	3.3	65.0	0.0517	32.0	0.0421	0.0	0.0000
11/17/2013 14:41	3.4	53.0	0.0422	32.0	0.0422	0.0	0.0000
11/17/2013 14:42	3.5	52.0	0.0421	33.0	0.0436	0.0	0.0000
11/17/2013 14:43	3.3	67.0	0.0538	33.0	0.0430	0.0	0.0000
11/17/2013 14:44	3.4	47.0	0.0380	33.0	0.0432	0.0	0.0000
11/17/2013 14:45	3.6	45.0	0.0365	32.0	0.0426	0.0	0.0000
11/17/2013 14:46	3.3	56.0	0.0443	32.0	0.0421	0.0	0.0000
11/17/2013 14:47	3.3	52.0	0.0413	32.0	0.0420	0.0	0.0000
11/17/2013 14:48	3.3	51.0	0.0403	32.0	0.0419	0.0	0.0000
11/17/2013 14:49	3.0	108.0	0.0844	31.0	0.0402	0.0	0.0000
11/17/2013 14:50	3.1	93.0	0.0734	31.0	0.0400	0.0	0.0000
11/17/2013 14:51	3.3	84.0	0.0671	31.0	0.0405	0.0	0.0000
Period Average =	3.3	69.4	0.0550	31.5	0.0412	0.0	0.0000
Period Max Value =	3.6	108.0	0.0844	33.0	0.0436	0.0	0.0000
Period Min Value =	3.0	45.0	0.0365	30.0	0.0386	0.0	0.0000
Period Totals =	7.1700E+1	1.5260E+3	1.2109E+0	6.9200E+2	9.0550E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 14:30

End of Report: 11/17/2013 14:51



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-10000000	0-100	0-116
11/17/2013 14:30	17839200	26.0	101.8
11/17/2013 14:31	17704200	24.0	102.0
11/17/2013 14:32	17602200	27.0	102.0
11/17/2013 14:33	17548200	23.0	102.0
11/17/2013 14:34	17452200	27.0	102.1
11/17/2013 14:35	17885400	21.0	101.7
11/17/2013 14:36	17610600	24.0	102.0
11/17/2013 14:37	18463800	23.0	102.0
11/17/2013 14:38	18410400	23.0	101.9
11/17/2013 14:39	18357000	24.0	102.1
11/17/2013 14:40	18804600	21.0	101.9
11/17/2013 14:41	18881400	21.0	102.1
11/17/2013 14:42	19251600	26.0	101.9
11/17/2013 14:43	19381200	21.0	101.8
11/17/2013 14:44	18764400	21.0	101.6
11/17/2013 14:45	18803400	22.0	101.7
11/17/2013 14:46	19217400	24.0	101.9
11/17/2013 14:47	18830400	21.0	101.7
11/17/2013 14:48	18644400	27.0	101.9
11/17/2013 14:49	18741000	27.0	101.7
11/17/2013 14:50	19012200	23.0	101.7
11/17/2013 14:51	18844800	21.0	101.7
Period Average =	18456818	23.5	101.9
Period Max Value =	19381200	27.0	102.1
Period Min Value =	17452200	21.0	101.6
Period Totals =	4.0605E+8	5.1700E+2	2.2412E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 15:11
End of Report: 11/17/2013 15:32



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	CO Uncorr	CO Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	CO	CO	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 15:11	3.1	73.0	0.0579	31.0	0.0402	0.0	0.0000
11/17/2013 15:12	3.3	68.0	0.0544	31.0	0.0410	0.0	0.0000
11/17/2013 15:13	3.5	40.0	0.0320	32.0	0.0424	0.0	0.0000
11/17/2013 15:14	3.2	62.0	0.0490	32.0	0.0417	0.0	0.0000
11/17/2013 15:15	3.2	77.0	0.0609	32.0	0.0414	0.0	0.0000
11/17/2013 15:16	3.1	75.0	0.0589	32.0	0.0416	0.0	0.0000
11/17/2013 15:17	3.5	48.0	0.0387	32.0	0.0426	0.0	0.0000
11/17/2013 15:18	3.4	47.0	0.0378	32.0	0.0422	0.0	0.0000
11/17/2013 15:19	3.3	63.0	0.0504	32.0	0.0417	0.0	0.0000
11/17/2013 15:20	3.2	70.0	0.0557	32.0	0.0416	0.0	0.0000
11/17/2013 15:21	3.5	40.0	0.0323	32.0	0.0426	0.0	0.0000
11/17/2013 15:22	3.3	58.0	0.0460	31.0	0.0407	0.0	0.0000
11/17/2013 15:23	3.2	67.0	0.0533	31.0	0.0400	0.0	0.0000
11/17/2013 15:24	3.1	89.0	0.0699	31.0	0.0403	0.0	0.0000
11/17/2013 15:25	3.2	70.0	0.0556	31.0	0.0407	0.0	0.0000
11/17/2013 15:26	3.2	81.0	0.0638	31.0	0.0401	0.0	0.0000
11/17/2013 15:27	3.5	62.0	0.0500	31.0	0.0412	0.0	0.0000
11/17/2013 15:28	3.6	56.0	0.0454	31.0	0.0416	0.0	0.0000
11/17/2013 15:29	3.4	76.0	0.0611	31.0	0.0410	0.0	0.0000
11/17/2013 15:30	3.4	65.0	0.0524	32.0	0.0424	0.0	0.0000
11/17/2013 15:31	3.5	53.0	0.0430	33.0	0.0437	0.0	0.0000
11/17/2013 15:32	3.5	48.0	0.0391	32.0	0.0422	0.0	0.0000
Period Average =	3.3	63.1	0.0503	31.6	0.0415	0.0	0.0000
Period Max Value =	3.6	89.0	0.0699	33.0	0.0437	0.0	0.0000
Period Min Value =	3.1	40.0	0.0320	31.0	0.0400	0.0	0.0000
Period Totals =	7.3200E+1	1.3880E+3	1.1076E+0	6.9500E+2	9.1290E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 15:11

End of Report: 11/17/2013 15:32



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-10000000	0-100	0-116
11/17/2013 15:11	18228600	26.0	102.3
11/17/2013 15:12	18648600	21.0	101.9
11/17/2013 15:13	18753000	26.0	101.8
11/17/2013 15:14	19120200	22.0	102.1
11/17/2013 15:15	19332000	25.0	101.8
11/17/2013 15:16	19338600	19.0	102.1
11/17/2013 15:17	19381800	26.0	102.3
11/17/2013 15:18	19212600	21.0	102.3
11/17/2013 15:19	19086000	27.0	101.9
11/17/2013 15:20	19107000	19.0	102.1
11/17/2013 15:21	18889800	20.0	102.1
11/17/2013 15:22	18817800	24.0	102.3
11/17/2013 15:23	18550800	25.0	102.6
11/17/2013 15:24	18539400	23.0	102.2
11/17/2013 15:25	18888600	22.0	102.1
11/17/2013 15:26	18839400	22.0	102.0
11/17/2013 15:27	18849600	20.0	101.9
11/17/2013 15:28	18939600	22.0	102.4
11/17/2013 15:29	19494600	24.0	102.1
11/17/2013 15:30	18849600	24.0	102.2
11/17/2013 15:31	18724800	20.0	102.4
11/17/2013 15:32	18450000	23.0	102.3
Period Average =	18911018	22.8	102.1
Period Max Value =	19494600	27.0	102.6
Period Min Value =	18228600	19.0	101.8
Period Totals =	4.1604E+8	5.0100E+2	2.2472E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 15:51
End of Report: 11/17/2013 16:12



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	CO Uncorr	CO Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	CO	CO	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 15:51	3.1	78.0	0.0612	32.0	0.0415	0.0	0.0000
11/17/2013 15:52	3.4	55.0	0.0437	32.0	0.0423	0.0	0.0000
11/17/2013 15:53	3.5	46.0	0.0369	32.0	0.0424	0.0	0.0000
11/17/2013 15:54	3.3	58.0	0.0459	32.0	0.0416	0.0	0.0000
11/17/2013 15:55	3.3	54.0	0.0428	32.0	0.0420	0.0	0.0000
11/17/2013 15:56	3.2	62.0	0.0492	31.0	0.0402	0.0	0.0000
11/17/2013 15:57	3.2	64.0	0.0509	31.0	0.0406	0.0	0.0000
11/17/2013 15:58	3.2	63.0	0.0497	31.0	0.0401	0.0	0.0000
11/17/2013 15:59	3.4	51.0	0.0409	31.0	0.0409	0.0	0.0000
11/17/2013 16:00	3.3	56.0	0.0445	31.0	0.0405	0.0	0.0000
11/17/2013 16:01	3.1	69.0	0.0542	31.0	0.0404	0.0	0.0000
11/17/2013 16:02	3.0	62.0	0.0483	31.0	0.0400	0.0	0.0000
11/17/2013 16:03	3.0	84.0	0.0661	31.0	0.0403	0.0	0.0000
11/17/2013 16:04	3.2	69.0	0.0550	31.0	0.0402	0.0	0.0000
11/17/2013 16:05	3.2	79.0	0.0624	31.0	0.0401	0.0	0.0000
11/17/2013 16:06	3.3	65.0	0.0519	31.0	0.0405	0.0	0.0000
11/17/2013 16:07	3.3	60.0	0.0479	31.0	0.0404	0.0	0.0000
11/17/2013 16:08	3.3	65.0	0.0518	32.0	0.0422	0.0	0.0000
11/17/2013 16:09	3.2	65.0	0.0519	32.0	0.0415	0.0	0.0000
11/17/2013 16:10	3.3	56.0	0.0449	32.0	0.0419	0.0	0.0000
11/17/2013 16:11	3.5	49.0	0.0395	32.0	0.0426	0.0	0.0000
11/17/2013 16:12	3.3	54.0	0.0434	31.0	0.0403	0.0	0.0000
Period Average =	3.3	62.0	0.0492	31.4	0.0410	0.0	0.0000
Period Max Value =	3.5	84.0	0.0661	32.0	0.0426	0.0	0.0000
Period Min Value =	3.0	46.0	0.0369	31.0	0.0400	0.0	0.0000
Period Totals =	7.1600E+1	1.3640E+3	1.0830E+0	6.9100E+2	9.0250E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 15:51

End of Report: 11/17/2013 16:12



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-1000000	0-100	0-116
11/17/2013 15:51	19332600	23.0	102.0
11/17/2013 15:52	18841200	21.0	102.2
11/17/2013 15:53	19129200	26.0	102.4
11/17/2013 15:54	19346400	21.0	102.1
11/17/2013 15:55	18829800	21.0	102.2
11/17/2013 15:56	18769800	22.0	102.5
11/17/2013 15:57	18966600	22.0	102.2
11/17/2013 15:58	18847800	22.0	102.1
11/17/2013 15:59	18421200	18.0	102.0
11/17/2013 16:00	18905400	27.0	102.2
11/17/2013 16:01	18545400	19.0	102.3
11/17/2013 16:02	18561600	23.0	102.5
11/17/2013 16:03	18760200	20.0	102.3
11/17/2013 16:04	18791400	25.0	102.0
11/17/2013 16:05	18833400	22.0	101.9
11/17/2013 16:06	18915000	24.0	102.2
11/17/2013 16:07	18573000	21.0	102.0
11/17/2013 16:08	18778800	21.0	101.9
11/17/2013 16:09	18226200	25.0	102.3
11/17/2013 16:10	18235800	21.0	102.1
11/17/2013 16:11	18238200	20.0	102.6
11/17/2013 16:12	18634800	24.0	101.7
Period Average =	18749264	22.2	102.2
Period Max Value =	19346400	27.0	102.6
Period Min Value =	18226200	18.0	101.7
Period Totals =	4.1248E+8	4.8800E+2	2.2477E+3
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
 10001 Northwest 13th St
 Gainesville, FL 32653
Data Group: 1-Min Calc (RATA)
Report Name: Summary Rpt (RATA Part 1)
Start of Report: 11/17/2013 17:03
End of Report: 11/17/2013 17:24



Validation: All Available Data

Group#-Channel#	G14-C1	G14-C9	G14-C11	G14-C6	G14-C8	G14-C3	G14-C5
Long Descrip.	02 (dry)	CO Uncorr	CO Lbs/mm	NOx Uncor	NOx Lbs/m	S02 Uncor	S02 Lbs/m
Short Descrip.	02dry	CO	CO	NOx	NOx#/mmBt	S02	S02#/mmBt
Units	%	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu	ppm	Lbs/mmBtu
Range	0-25	0-200	0-200	0-200	0-200	0-200	0-200
11/17/2013 17:03	3.3	65.0	0.0517	32.0	0.0416	0.0	0.0000
11/17/2013 17:04	3.2	69.0	0.0548	32.0	0.0419	0.0	0.0000
11/17/2013 17:05	3.0	84.0	0.0656	32.0	0.0412	0.0	0.0000
11/17/2013 17:06	2.9	118.0	0.0921	32.0	0.0407	0.0	0.0000
11/17/2013 17:07	3.2	70.0	0.0553	32.0	0.0415	0.0	0.0000
11/17/2013 17:08	3.3	62.0	0.0497	31.0	0.0409	0.0	0.0000
11/17/2013 17:09	3.5	46.0	0.0374	31.0	0.0413	0.0	0.0000
11/17/2013 17:10	3.3	55.0	0.0440	31.0	0.0408	0.0	0.0000
11/17/2013 17:11	3.1	64.0	0.0506	31.0	0.0405	0.0	0.0000
11/17/2013 17:12	3.2	62.0	0.0488	31.0	0.0403	0.0	0.0000
11/17/2013 17:13	3.2	65.0	0.0513	30.0	0.0390	0.0	0.0000
11/17/2013 17:14	3.1	66.0	0.0518	30.0	0.0390	0.0	0.0000
11/17/2013 17:15	3.0	77.0	0.0603	31.0	0.0397	0.0	0.0000
11/17/2013 17:16	3.3	74.0	0.0588	31.0	0.0409	0.0	0.0000
11/17/2013 17:17	3.2	93.0	0.0741	30.0	0.0394	0.0	0.0000
11/17/2013 17:18	3.2	82.0	0.0652	31.0	0.0404	0.0	0.0000
11/17/2013 17:19	3.2	76.0	0.0604	31.0	0.0405	0.0	0.0000
11/17/2013 17:20	3.3	63.0	0.0499	31.0	0.0404	0.0	0.0000
11/17/2013 17:21	3.4	66.0	0.0527	31.0	0.0407	0.0	0.0000
11/17/2013 17:22	3.2	81.0	0.0644	31.0	0.0400	0.0	0.0000
11/17/2013 17:23	3.1	97.0	0.0766	32.0	0.0418	0.0	0.0000
11/17/2013 17:24	3.2	91.0	0.0719	32.0	0.0420	0.0	0.0000
Period Average =	3.2	73.9	0.0585	31.2	0.0407	0.0	0.0000
Period Max Value =	3.5	118.0	0.0921	32.0	0.0420	0.0	0.0000
Period Min Value =	2.9	46.0	0.0374	30.0	0.0390	0.0	0.0000
Period Totals =	7.0400E+1	1.6260E+3	1.2874E+0	6.8600E+2	8.9450E-1	0.0000E+0	0.0000E+0
Period % Recovery =	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA Part 2)

Start of Report: 11/17/2013 17:03

End of Report: 11/17/2013 17:24



Validation: All Available Data

Group#-Channel#	G14-C15	G14-C14	G3-C10
Long Descrip.	Stk Flow	%H2O	Power Meg
Short Descrip.	Stk Flow	%H2O	Power
Units	scfh	%	MWatts
Range	0-10000000	0-100	0-116
11/17/2013 17:03	19348200	21.0	102.0
11/17/2013 17:04	19105200	25.0	102.2
11/17/2013 17:05	19362000	27.0	102.0
11/17/2013 17:06	19022400	21.0	101.7
11/17/2013 17:07	19214400	22.0	102.1
11/17/2013 17:08	19005600	21.0	101.8
11/17/2013 17:09	18502800	23.0	101.8
11/17/2013 17:10	18378000	24.0	101.8
11/17/2013 17:11	18103200	23.0	102.0
11/17/2013 17:12	18056400	22.0	101.8
11/17/2013 17:13	18278400	22.0	102.1
11/17/2013 17:14	18404400	26.0	102.1
11/17/2013 17:15	18358200	23.0	102.2
11/17/2013 17:16	18667200	21.0	101.8
11/17/2013 17:17	18466800	25.0	101.9
11/17/2013 17:18	18666600	22.0	102.0
11/17/2013 17:19	18313800	25.0	101.8
11/17/2013 17:20	18918600	21.0	102.0
11/17/2013 17:21	18690600	26.0	101.9
11/17/2013 17:22	18525600	25.0	102.0
11/17/2013 17:23	18935400	26.0	101.8
11/17/2013 17:24	19023600	25.0	102.0
Period Average =	18697609	23.5	101.9
Period Max Value =	19362000	27.0	102.2
Period Min Value =	18056400	21.0	101.7
Period Totals =	4.1134E+8	5.1600E+2	2.2428E+3
Period % Recovery =	100.0	100.0	100.0

Mid Load Flow CEMS Data

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 08:50

End of Report: 11/18/2013 08:58



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 08:50	298.62	17917200	89.9
11/18/2013 08:51	291.44	17486400	90.1
11/18/2013 08:52	274.81	16488600	90.0
11/18/2013 08:53	273.87	16432200	90.1
11/18/2013 08:54	278.94	16736400	90.1
11/18/2013 08:55	276.08	16564800	90.0
11/18/2013 08:56	263.86	15831600	90.1
11/18/2013 08:57	256.75	15405000	89.9
11/18/2013 08:58	266.84	16010400	90.1
Period Average =	275.69	16541400	90.0
Period Max Value =	298.62	17917200	90.1
Period Min Value =	256.75	15405000	89.9
Period Totals =	2.4812E+3	1.4887E+8	8.1030E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 09:00

End of Report: 11/18/2013 09:06



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 09:00	280.55	16833000	89.9
11/18/2013 09:01	284.98	17098800	90.3
11/18/2013 09:02	278.23	16693800	90.1
11/18/2013 09:03	281.16	16869600	90.2
11/18/2013 09:04	272.76	16365600	90.1
11/18/2013 09:05	273.83	16429800	90.1
11/18/2013 09:06	265.76	15945600	90.2
Period Average =	276.75	16605171	90.1
Period Max Value =	284.98	17098800	90.3
Period Min Value =	265.76	15945600	89.9
Period Totals =	1.9372E+3	1.1623E+8	6.3090E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 09:07

End of Report: 11/18/2013 09:14



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 09:07	282.56	16953600	90.0
11/18/2013 09:08	285.39	17123400	90.2
11/18/2013 09:09	284.67	17080200	90.2
11/18/2013 09:10	283.69	17021400	90.2
11/18/2013 09:11	285.32	17119200	90.2
11/18/2013 09:12	286.00	17160000	90.2
11/18/2013 09:13	286.43	17185800	90.0
11/18/2013 09:14	287.46	17247600	90.0
Period Average =	285.19	17111400	90.1
Period Max Value =	287.46	17247600	90.2
Period Min Value =	282.56	16953600	90.0
Period Totals =	2.2815E+3	1.3689E+8	7.2100E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 09:43

End of Report: 11/18/2013 09:49



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 09:43	266.27	15976200	90.1
11/18/2013 09:44	260.64	15638400	90.1
11/18/2013 09:45	262.37	15742200	90.0
11/18/2013 09:46	263.66	15819600	90.1
11/18/2013 09:47	274.22	16453200	90.3
11/18/2013 09:48	281.29	16877400	90.2
11/18/2013 09:49	284.38	17062800	90.2
Period Average =	270.40	16224257	90.1
Period Max Value =	284.38	17062800	90.3
Period Min Value =	260.64	15638400	90.0
Period Totals =	1.8928E+3	1.1356E+8	6.3100E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 09:50

End of Report: 11/18/2013 09:56



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 09:50	285.67	17140200	90.1
11/18/2013 09:51	285.22	17113200	90.4
11/18/2013 09:52	287.31	17238600	90.2
11/18/2013 09:53	287.92	17275200	90.1
11/18/2013 09:54	291.65	17499000	90.2
11/18/2013 09:55	288.51	17310600	90.2
11/18/2013 09:56	280.27	16816200	90.0
Period Average =	286.65	17199000	90.2
Period Max Value =	291.65	17499000	90.4
Period Min Value =	280.27	16816200	90.0
Period Totals =	2.0065E+3	1.2039E+8	6.3120E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 10:05

End of Report: 11/18/2013 10:10



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 10:05	260.86	15651600	90.2
11/18/2013 10:06	275.16	16509600	90.0
11/18/2013 10:07	273.45	16407000	89.9
11/18/2013 10:08	274.65	16479000	90.1
11/18/2013 10:09	272.09	16325400	90.1
11/18/2013 10:10	269.05	16143000	90.0
Period Average =	270.88	16252600	90.1
Period Max Value =	275.16	16509600	90.2
Period Min Value =	260.86	15651600	89.9
Period Totals =	1.6252E+3	9.7515E+7	5.4030E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 10:30

End of Report: 11/18/2013 10:35



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 10:30	263.68	15820800	90.1
11/18/2013 10:31	278.51	16710600	90.1
11/18/2013 10:32	262.65	15759000	90.1
11/18/2013 10:33	252.77	15166200	89.9
11/18/2013 10:34	254.59	15275400	90.1
11/18/2013 10:35	249.79	14987400	90.2
Period Average =	260.33	15619900	90.1
Period Max Value =	278.51	16710600	90.2
Period Min Value =	249.79	14987400	89.9
Period Totals =	1.5619E+3	9.3719E+7	5.4050E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 10:36

End of Report: 11/18/2013 10:41



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 10:36	259.55	15573000	90.1
11/18/2013 10:37	266.52	15991200	90.0
11/18/2013 10:38	249.96	14997600	90.0
11/18/2013 10:39	259.02	15541200	90.3
11/18/2013 10:40	268.19	16091400	90.1
11/18/2013 10:41	275.85	16551000	90.2
Period Average =	263.18	15790900	90.1
Period Max Value =	275.85	16551000	90.3
Period Min Value =	249.96	14997600	90.0
Period Totals =	1.5790E+3	9.4745E+7	5.4070E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 10:42

End of Report: 11/18/2013 10:48



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 10:42	280.27	16816200	90.0
11/18/2013 10:43	293.25	17595000	90.3
11/18/2013 10:44	287.14	17228400	90.1
11/18/2013 10:45	283.03	16981800	90.0
11/18/2013 10:46	280.76	16845600	90.0
11/18/2013 10:47	280.93	16855800	90.0
11/18/2013 10:48	274.80	16488000	90.1
Period Average =	282.88	16972971	90.1
Period Max Value =	293.25	17595000	90.3
Period Min Value =	274.80	16488000	90.0
Period Totals =	1.9801E+3	1.1881E+8	6.3050E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 10:54

End of Report: 11/18/2013 11:00



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 10:54	284.34	17060400	90.0
11/18/2013 10:55	279.45	16767000	90.2
11/18/2013 10:56	273.66	16419600	90.2
11/18/2013 10:57	273.06	16383600	90.0
11/18/2013 10:58	255.44	15326400	90.2
11/18/2013 10:59	255.48	15328800	90.1
11/18/2013 11:00	269.10	16146000	89.9
Period Average =	270.08	16204543	90.1
Period Max Value =	284.34	17060400	90.2
Period Min Value =	255.44	15326400	89.9
Period Totals =	1.8905E+3	1.1343E+8	6.3060E+2
Period % Recovery =	100.0	100.0	100.0

Low Load Flow CEMS Data

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 12:48

End of Report: 11/18/2013 12:54



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 12:48	218.42	13105200	73.4
11/18/2013 12:49	230.70	13842000	73.3
11/18/2013 12:50	224.94	13496400	73.2
11/18/2013 12:51	233.33	13999800	73.3
11/18/2013 12:52	246.49	14789400	73.3
11/18/2013 12:53	231.68	13900800	73.3
11/18/2013 12:54	220.68	13240800	73.3
Period Average =	229.46	13767771	73.3
Period Max Value =	246.49	14789400	73.4
Period Min Value =	218.42	13105200	73.2
Period Totals =	1.6062E+3	9.6374E+7	5.1310E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 12:55

End of Report: 11/18/2013 13:00



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 12:55	223.34	13400400	73.2
11/18/2013 12:56	227.83	13669800	73.2
11/18/2013 12:57	237.45	14247000	73.2
11/18/2013 12:58	233.27	13996200	73.3
11/18/2013 12:59	228.20	13692000	73.3
11/18/2013 13:00	242.14	14528400	73.2
Period Average =	232.04	13922300	73.2
Period Max Value =	242.14	14528400	73.3
Period Min Value =	223.34	13400400	73.2
Period Totals =	1.3922E+3	8.3533E+7	4.3940E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 13:01

End of Report: 11/18/2013 13:07



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 13:01	230.34	13820400	73.2
11/18/2013 13:02	233.15	13989000	73.2
11/18/2013 13:03	233.48	14008800	73.3
11/18/2013 13:04	237.62	14257200	73.3
11/18/2013 13:05	218.56	13113600	73.3
11/18/2013 13:06	229.36	13761600	73.2
11/18/2013 13:07	243.40	14604000	73.2
Period Average =	232.27	13936371	73.2
Period Max Value =	243.40	14604000	73.3
Period Min Value =	218.56	13113600	73.2
Period Totals =	1.6259E+3	9.7554E+7	5.1270E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 13:31

End of Report: 11/18/2013 13:37



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 13:31	239.25	14355000	73.2
11/18/2013 13:32	250.26	15015600	73.3
11/18/2013 13:33	235.77	14146200	73.3
11/18/2013 13:34	231.13	13867800	73.2
11/18/2013 13:35	224.84	13490400	73.2
11/18/2013 13:36	235.03	14101800	73.2
11/18/2013 13:37	237.45	14247000	73.3
Period Average =	236.25	14174829	73.2
Period Max Value =	250.26	15015600	73.3
Period Min Value =	224.84	13490400	73.2
Period Totals =	1.6537E+3	9.9223E+7	5.1270E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 13:38

End of Report: 11/18/2013 13:43



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 13:38	227.14	13628400	73.3
11/18/2013 13:39	222.36	13341600	73.2
11/18/2013 13:40	219.75	13185000	73.2
11/18/2013 13:41	223.27	13396200	73.3
11/18/2013 13:42	225.41	13524600	73.2
11/18/2013 13:43	224.18	13450800	73.3
Period Average =	223.69	13421100	73.3
Period Max Value =	227.14	13628400	73.3
Period Min Value =	219.75	13185000	73.2
Period Totals =	1.3421E+3	8.0526E+7	4.3950E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 13:45

End of Report: 11/18/2013 13:52



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 13:45	224.09	13445400	73.2
11/18/2013 13:46	239.48	14368800	73.2
11/18/2013 13:47	238.95	14337000	73.1
11/18/2013 13:48	230.96	13857600	73.2
11/18/2013 13:49	236.15	14169000	73.2
11/18/2013 13:50	244.71	14682600	73.2
11/18/2013 13:51	241.18	14470800	73.3
11/18/2013 13:52	240.90	14454000	73.3
Period Average =	237.05	14223150	73.2
Period Max Value =	244.71	14682600	73.3
Period Min Value =	224.09	13445400	73.1
Period Totals =	1.8964E+3	1.1378E+8	5.8570E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 14:18

End of Report: 11/18/2013 14:25



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 14:18	236.23	14173800	73.3
11/18/2013 14:19	243.66	14619600	73.3
11/18/2013 14:20	237.08	14224800	73.3
11/18/2013 14:21	230.75	13845000	73.2
11/18/2013 14:22	235.27	14116200	73.3
11/18/2013 14:23	242.55	14553000	73.4
11/18/2013 14:24	244.78	14686800	73.4
11/18/2013 14:25	261.30	15678000	73.3
Period Average =	241.45	14487150	73.3
Period Max Value =	261.30	15678000	73.4
Period Min Value =	230.75	13845000	73.2
Period Totals =	1.9316E+3	1.1589E+8	5.8650E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 14:26

End of Report: 11/18/2013 14:32



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 14:26	257.87	15472200	73.2
11/18/2013 14:27	239.69	14381400	73.2
11/18/2013 14:28	238.14	14288400	73.3
11/18/2013 14:29	245.22	14713200	73.3
11/18/2013 14:30	229.77	13786200	73.2
11/18/2013 14:31	237.81	14268600	73.2
11/18/2013 14:32	236.97	14218200	73.3
Period Average =	240.78	14446886	73.2
Period Max Value =	257.87	15472200	73.3
Period Min Value =	229.77	13786200	73.2
Period Totals =	1.6854E+3	1.0112E+8	5.1270E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 14:33

End of Report: 11/18/2013 14:40



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 14:33	237.51	14250600	73.3
11/18/2013 14:34	231.79	13907400	73.2
11/18/2013 14:35	234.76	14085600	73.2
11/18/2013 14:36	255.63	15337800	73.2
11/18/2013 14:37	246.09	14765400	73.3
11/18/2013 14:38	249.40	14964000	73.3
11/18/2013 14:39	224.17	13450200	73.3
11/18/2013 14:40	248.67	14920200	73.3
Period Average =	241.00	14460150	73.3
Period Max Value =	255.63	15337800	73.3
Period Min Value =	224.17	13450200	73.2
Period Totals =	1.9280E+3	1.1568E+8	5.8610E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 15:12

End of Report: 11/18/2013 15:22



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 15:12	240.67	14440200	73.3
11/18/2013 15:13	234.24	14054400	73.4
11/18/2013 15:14	224.55	13473000	73.4
11/18/2013 15:15	226.44	13586400	73.5
11/18/2013 15:16	240.04	14402400	73.5
11/18/2013 15:17	242.00	14520000	73.4
11/18/2013 15:18	236.29	14177400	73.4
11/18/2013 15:19	234.61	14076600	73.4
11/18/2013 15:20	233.16	13989600	73.4
11/18/2013 15:21	232.34	13940400	73.3
11/18/2013 15:22	236.05	14163000	73.3
Period Average =	234.58	14074855	73.4
Period Max Value =	242.00	14520000	73.5
Period Min Value =	224.55	13473000	73.3
Period Totals =	2.5803E+3	1.5482E+8	8.0730E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 15:23

End of Report: 11/18/2013 15:33



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 15:23	234.95	14097000	73.2
11/18/2013 15:24	233.65	14019000	73.2
11/18/2013 15:25	224.81	13488600	73.3
11/18/2013 15:26	236.43	14185800	73.3
11/18/2013 15:27	244.38	14662800	73.3
11/18/2013 15:28	230.77	13846200	73.5
11/18/2013 15:29	219.40	13164000	73.4
11/18/2013 15:30	223.64	13418400	73.4
11/18/2013 15:31	237.26	14235600	73.4
11/18/2013 15:32	241.37	14482200	73.3
11/18/2013 15:33	234.42	14065200	73.3
Period Average =	232.83	13969527	73.3
Period Max Value =	244.38	14662800	73.5
Period Min Value =	219.40	13164000	73.2
Period Totals =	2.5610E+3	1.5366E+8	8.0660E+2
Period % Recovery =	100.0	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: All Data Groups

Report Name: Summary Rpt (RATA, Flow)

Start of Report: 11/18/2013 15:34

End of Report: 11/18/2013 15:44



Validation: Valid Data Only

Group#-Channel#	G1-C9	G3-C8	G3-C10
Long Descrip.	1-Min Flo	Stk Flow	Power Meg
Short Descrip.	StkFlw	Stk Flow	Power
Units	kscfm	scfh	MWatts
Range	0-500	0-2500000	0-116
11/18/2013 15:34	237.69	14261400	73.4
11/18/2013 15:35	246.70	14802000	73.5
11/18/2013 15:36	243.87	14632200	73.4
11/18/2013 15:37	244.11	14646600	73.4
11/18/2013 15:38	242.75	14565000	73.5
11/18/2013 15:39	240.36	14421600	73.4
11/18/2013 15:40	225.14	13508400	73.4
11/18/2013 15:41	227.33	13639800	73.3
11/18/2013 15:42	236.08	14164800	73.3
11/18/2013 15:43	221.21	13272600	73.3
11/18/2013 15:44	241.88	14512800	73.4
Period Average =	237.01	14220655	73.4
Period Max Value =	246.70	14802000	73.5
Period Min Value =	221.21	13272600	73.3
Period Totals =	2.6071E+3	1.5642E+8	8.0730E+2
Period % Recovery =	100.0	100.0	100.0

HCL and HF CEMS Data

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/15/2013 09:39

End of Report: 11/15/2013 10:49



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 09:39	0.01	0.00
11/15/2013 09:40	0.00	0.01
11/15/2013 09:41	0.00	0.00
11/15/2013 09:42	0.01	0.00
11/15/2013 09:43	0.00	0.00
11/15/2013 09:44	0.00	0.02
11/15/2013 09:45	0.00	0.00
11/15/2013 09:46	0.01	0.00
11/15/2013 09:47	0.00	0.01
11/15/2013 09:48	0.00	0.01
11/15/2013 09:49	0.00	0.00
11/15/2013 09:50	0.00	0.00
11/15/2013 09:51	0.00	0.02
11/15/2013 09:52	0.00	0.00
11/15/2013 09:53	0.00	0.00
11/15/2013 09:54	0.01	0.00
11/15/2013 09:55	0.00	0.00
11/15/2013 09:56	0.00	0.01
11/15/2013 09:57	0.00	0.00
11/15/2013 09:58	0.00	0.00
11/15/2013 09:59	0.00	0.01
11/15/2013 10:00	0.00	0.00
11/15/2013 10:01	0.01	0.00
11/15/2013 10:02	0.00	0.00
11/15/2013 10:03	0.22	0.02
11/15/2013 10:04	0.25	0.00
11/15/2013 10:05	0.01	0.00
11/15/2013 10:06	0.00	0.01
11/15/2013 10:07	0.00	0.00
11/15/2013 10:08	0.11	0.00
11/15/2013 10:09	0.21	0.00
11/15/2013 10:10	0.00	0.02
11/15/2013 10:11	0.00	0.00
11/15/2013 10:12	0.01	0.00
11/15/2013 10:13	0.00	0.00
11/15/2013 10:14	0.00	0.02
11/15/2013 10:15	0.00	0.00
11/15/2013 10:16	0.01	0.00
11/15/2013 10:17	0.00	0.01
11/15/2013 10:18	0.00	0.00
11/15/2013 10:19	0.01	0.00

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 10:20	0.00	0.00
11/15/2013 10:21	0.00	0.00
11/15/2013 10:22	0.00	0.02
11/15/2013 10:23	0.00	0.00
11/15/2013 10:24	0.01	0.00
11/15/2013 10:25	0.00	0.01
11/15/2013 10:26	0.00	0.00
11/15/2013 10:27	0.00	0.00
11/15/2013 10:28	0.00	0.00
11/15/2013 10:29	0.00	0.02
11/15/2013 10:30	0.00	0.00
11/15/2013 10:31	0.01	0.00
11/15/2013 10:32	0.00	0.00
11/15/2013 10:33	0.00	0.02
11/15/2013 10:34	0.00	0.00
11/15/2013 10:35	0.01	0.00
11/15/2013 10:36	0.00	0.01
11/15/2013 10:37	0.00	0.00
11/15/2013 10:38	0.01	0.00
11/15/2013 10:39	0.00	0.00
11/15/2013 10:40	0.00	0.02
11/15/2013 10:41	0.00	0.00
11/15/2013 10:42	0.01	0.00
11/15/2013 10:43	0.00	0.01
11/15/2013 10:44	0.00	0.01
11/15/2013 10:45	0.00	0.00
11/15/2013 10:46	0.00	0.00
11/15/2013 10:47	0.00	0.01
11/15/2013 10:48	0.00	0.00
11/15/2013 10:49	0.00	0.00
Period Average =	0.01	0.00
Period Max Value =	0.25	0.02
Period Min Value =	0.00	0.00
Period Totals =	9.3000E-1	3.0000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/15/2013 11:14

End of Report: 11/15/2013 12:21



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 11:14	0.00	0.00
11/15/2013 11:15	0.01	0.00
11/15/2013 11:16	0.01	0.00
11/15/2013 11:17	0.00	0.00
11/15/2013 11:18	0.00	0.02
11/15/2013 11:19	0.00	0.00
11/15/2013 11:20	0.01	0.00
11/15/2013 11:21	0.00	0.01
11/15/2013 11:22	0.00	0.00
11/15/2013 11:23	0.00	0.00
11/15/2013 11:24	0.00	0.00
11/15/2013 11:25	0.00	0.02
11/15/2013 11:26	0.00	0.00
11/15/2013 11:27	0.01	0.00
11/15/2013 11:28	0.00	0.00
11/15/2013 11:29	0.00	0.02
11/15/2013 11:30	0.00	0.00
11/15/2013 11:31	0.01	0.00
11/15/2013 11:32	0.00	0.01
11/15/2013 11:33	0.00	0.00
11/15/2013 11:34	0.01	0.00
11/15/2013 11:35	0.00	0.00
11/15/2013 11:36	0.00	0.02
11/15/2013 11:37	0.00	0.00
11/15/2013 11:38	0.01	0.00
11/15/2013 11:39	0.00	0.01
11/15/2013 11:40	0.00	0.01
11/15/2013 11:41	0.00	0.00
11/15/2013 11:42	0.00	0.00
11/15/2013 11:43	0.00	0.02
11/15/2013 11:44	0.00	0.02
11/15/2013 11:45	0.00	0.00
11/15/2013 11:46	0.01	0.00
11/15/2013 11:47	0.00	0.00
11/15/2013 11:48	0.00	0.01
11/15/2013 11:49	0.00	0.00
11/15/2013 11:50	0.01	0.00
11/15/2013 11:51	0.00	0.01
11/15/2013 11:52	0.00	0.00
11/15/2013 11:53	0.01	0.00
11/15/2013 11:54	0.00	0.00

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 11:55	0.03	0.02
11/15/2013 11:56	0.36	0.00
11/15/2013 11:57	0.01	0.00
11/15/2013 11:58	0.00	0.01
11/15/2013 11:59	0.00	0.01
11/15/2013 12:00	0.00	0.00
11/15/2013 12:01	0.00	0.00
11/15/2013 12:02	0.00	0.02
11/15/2013 12:03	0.00	0.00
11/15/2013 12:04	0.01	0.00
11/15/2013 12:05	0.00	0.00
11/15/2013 12:06	0.00	0.02
11/15/2013 12:07	0.00	0.00
11/15/2013 12:08	0.01	0.00
11/15/2013 12:09	0.00	0.01
11/15/2013 12:10	0.00	0.00
11/15/2013 12:11	0.01	0.00
11/15/2013 12:12	0.01	0.00
11/15/2013 12:13	0.00	0.00
11/15/2013 12:14	0.00	0.02
11/15/2013 12:15	0.00	0.00
11/15/2013 12:16	0.01	0.00
11/15/2013 12:17	0.00	0.01
11/15/2013 12:18	0.00	0.00
11/15/2013 12:19	0.00	0.00
11/15/2013 12:20	0.00	0.00
11/15/2013 12:21	0.00	0.02
Period Average =	0.01	0.00
Period Max Value =	0.36	0.02
Period Min Value =	0.00	0.00
Period Totals =	5.5000E-1	3.2000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/15/2013 12:46

End of Report: 11/15/2013 13:52



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 12:46	0.00	0.00
11/15/2013 12:47	0.00	0.01
11/15/2013 12:48	0.00	0.00
11/15/2013 12:49	0.01	0.00
11/15/2013 12:50	0.00	0.00
11/15/2013 12:51	0.00	0.02
11/15/2013 12:52	0.00	0.00
11/15/2013 12:53	0.01	0.00
11/15/2013 12:54	0.00	0.01
11/15/2013 12:55	0.00	0.01
11/15/2013 12:56	0.00	0.00
11/15/2013 12:57	0.00	0.00
11/15/2013 12:58	0.00	0.02
11/15/2013 12:59	0.00	0.00
11/15/2013 13:00	0.01	0.00
11/15/2013 13:01	0.00	0.00
11/15/2013 13:02	0.00	0.02
11/15/2013 13:03	0.00	0.00
11/15/2013 13:04	0.01	0.00
11/15/2013 13:05	0.00	0.01
11/15/2013 13:06	0.00	0.00
11/15/2013 13:07	0.00	0.00
11/15/2013 13:08	0.01	0.00
11/15/2013 13:09	0.00	0.00
11/15/2013 13:10	0.00	0.02
11/15/2013 13:11	0.00	0.00
11/15/2013 13:12	0.01	0.00
11/15/2013 13:13	0.00	0.01
11/15/2013 13:14	0.00	0.00
11/15/2013 13:15	0.01	0.00
11/15/2013 13:16	0.00	0.00
11/15/2013 13:17	0.00	0.02
11/15/2013 13:18	0.00	0.00
11/15/2013 13:19	0.01	0.00
11/15/2013 13:20	0.00	0.00
11/15/2013 13:21	0.00	0.02
11/15/2013 13:22	0.00	0.00
11/15/2013 13:23	0.01	0.00
11/15/2013 13:24	0.00	0.01
11/15/2013 13:25	0.00	0.00
11/15/2013 13:26	0.01	0.00

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 13:27	0.00	0.00
11/15/2013 13:28	0.00	0.02
11/15/2013 13:29	0.00	0.00
11/15/2013 13:30	0.01	0.00
11/15/2013 13:31	0.00	0.00
11/15/2013 13:32	0.00	0.01
11/15/2013 13:33	0.00	0.00
11/15/2013 13:34	0.00	0.00
11/15/2013 13:35	0.00	0.00
11/15/2013 13:36	0.00	0.02
11/15/2013 13:37	0.00	0.00
11/15/2013 13:38	0.01	0.00
11/15/2013 13:39	0.00	0.00
11/15/2013 13:40	0.00	0.02
11/15/2013 13:41	0.00	0.00
11/15/2013 13:42	0.01	0.00
11/15/2013 13:43	0.00	0.01
11/15/2013 13:44	0.00	0.00
11/15/2013 13:45	0.01	0.00
11/15/2013 13:46	0.00	0.00
11/15/2013 13:47	0.00	0.02
11/15/2013 13:48	0.00	0.00
11/15/2013 13:49	0.01	0.00
11/15/2013 13:50	0.00	0.00
11/15/2013 13:51	0.00	0.01
11/15/2013 13:52	0.00	0.00
Period Average =	0.00	0.00
Period Max Value =	0.01	0.02
Period Min Value =	0.00	0.00
Period Totals =	1.5000E-1	2.9000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/15/2013 14:17

End of Report: 11/15/2013 15:23



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 14:17	0.00	0.02
11/15/2013 14:18	0.00	0.00
11/15/2013 14:19	0.01	0.00
11/15/2013 14:20	0.00	0.01
11/15/2013 14:21	0.00	0.00
11/15/2013 14:22	0.01	0.00
11/15/2013 14:23	0.00	0.00
11/15/2013 14:24	0.00	0.02
11/15/2013 14:25	0.00	0.00
11/15/2013 14:26	0.01	0.00
11/15/2013 14:27	0.00	0.00
11/15/2013 14:28	0.00	0.01
11/15/2013 14:29	0.00	0.00
11/15/2013 14:30	0.01	0.00
11/15/2013 14:31	0.00	0.00
11/15/2013 14:32	0.00	0.02
11/15/2013 14:33	0.00	0.00
11/15/2013 14:34	0.01	0.00
11/15/2013 14:35	0.00	0.00
11/15/2013 14:36	0.21	0.02
11/15/2013 14:37	0.12	0.00
11/15/2013 14:38	0.01	0.00
11/15/2013 14:39	0.00	0.01
11/15/2013 14:40	0.00	0.00
11/15/2013 14:41	0.01	0.00
11/15/2013 14:42	0.00	0.00
11/15/2013 14:43	0.00	0.02
11/15/2013 14:44	0.00	0.00
11/15/2013 14:45	0.01	0.00
11/15/2013 14:46	0.00	0.01
11/15/2013 14:47	0.00	0.01
11/15/2013 14:48	0.00	0.00
11/15/2013 14:49	0.00	0.00
11/15/2013 14:50	0.00	0.01
11/15/2013 14:51	0.00	0.00
11/15/2013 14:52	0.01	0.00
11/15/2013 14:53	0.00	0.00
11/15/2013 14:54	0.00	0.02
11/15/2013 14:55	0.00	0.00
11/15/2013 14:56	0.01	0.00
11/15/2013 14:57	0.00	0.01

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 14:58	0.00	0.00
11/15/2013 14:59	0.00	0.00
11/15/2013 15:00	0.01	0.00
11/15/2013 15:01	0.00	0.00
11/15/2013 15:02	0.00	0.02
11/15/2013 15:03	0.00	0.00
11/15/2013 15:04	0.01	0.00
11/15/2013 15:05	0.00	0.01
11/15/2013 15:06	0.00	0.00
11/15/2013 15:07	0.00	0.00
11/15/2013 15:08	0.00	0.00
11/15/2013 15:09	0.00	0.01
11/15/2013 15:10	0.00	0.00
11/15/2013 15:11	0.01	0.00
11/15/2013 15:12	0.00	0.00
11/15/2013 15:13	0.00	0.02
11/15/2013 15:14	0.00	0.00
11/15/2013 15:15	0.01	0.00
11/15/2013 15:16	0.00	0.01
11/15/2013 15:17	0.00	0.00
11/15/2013 15:18	0.01	0.00
11/15/2013 15:19	0.00	0.00
11/15/2013 15:20	0.00	0.02
11/15/2013 15:21	0.00	0.00
11/15/2013 15:22	0.01	0.00
11/15/2013 15:23	0.00	0.00
Period Average =	0.01	0.00
Period Max Value =	0.21	0.02
Period Min Value =	0.00	0.00
Period Totals =	4.9000E-1	2.8000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/15/2013 15:44

End of Report: 11/15/2013 16:51



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 15:44	0.00	0.00
11/15/2013 15:45	0.00	0.00
11/15/2013 15:46	0.00	0.01
11/15/2013 15:47	0.00	0.00
11/15/2013 15:48	0.01	0.00
11/15/2013 15:49	0.00	0.00
11/15/2013 15:50	0.00	0.02
11/15/2013 15:51	0.00	0.00
11/15/2013 15:52	0.01	0.00
11/15/2013 15:53	0.00	0.01
11/15/2013 15:54	0.00	0.02
11/15/2013 15:55	0.00	0.00
11/15/2013 15:56	0.01	0.00
11/15/2013 15:57	0.00	0.00
11/15/2013 15:58	0.24	0.02
11/15/2013 15:59	0.05	0.00
11/15/2013 16:00	0.01	0.00
11/15/2013 16:01	0.00	0.00
11/15/2013 16:02	0.00	0.01
11/15/2013 16:03	0.00	0.00
11/15/2013 16:04	0.00	0.00
11/15/2013 16:05	0.00	0.01
11/15/2013 16:06	0.00	0.00
11/15/2013 16:07	0.01	0.00
11/15/2013 16:08	0.00	0.00
11/15/2013 16:09	0.00	0.02
11/15/2013 16:10	0.00	0.00
11/15/2013 16:11	0.01	0.00
11/15/2013 16:12	0.00	0.01
11/15/2013 16:13	0.00	0.00
11/15/2013 16:14	0.00	0.00
11/15/2013 16:15	0.00	0.00
11/15/2013 16:16	0.00	0.02
11/15/2013 16:17	0.00	0.00
11/15/2013 16:18	0.01	0.00
11/15/2013 16:19	0.00	0.00
11/15/2013 16:20	0.00	0.01
11/15/2013 16:21	0.00	0.00
11/15/2013 16:22	0.01	0.00
11/15/2013 16:23	0.00	0.00
11/15/2013 16:24	0.00	0.01

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 16:25	0.00	0.00
11/15/2013 16:26	0.01	0.00
11/15/2013 16:27	0.00	0.00
11/15/2013 16:28	0.00	0.02
11/15/2013 16:29	0.00	0.00
11/15/2013 16:30	0.01	0.00
11/15/2013 16:31	0.00	0.01
11/15/2013 16:32	0.00	0.00
11/15/2013 16:33	0.01	0.00
11/15/2013 16:34	0.00	0.00
11/15/2013 16:35	0.00	0.02
11/15/2013 16:36	0.00	0.00
11/15/2013 16:37	0.01	0.00
11/15/2013 16:38	0.00	0.00
11/15/2013 16:39	0.00	0.01
11/15/2013 16:40	0.00	0.00
11/15/2013 16:41	0.00	0.00
11/15/2013 16:42	0.00	0.01
11/15/2013 16:43	0.00	0.00
11/15/2013 16:44	0.01	0.00
11/15/2013 16:45	0.00	0.00
11/15/2013 16:46	0.00	0.02
11/15/2013 16:47	0.00	0.00
11/15/2013 16:48	0.01	0.00
11/15/2013 16:49	0.00	0.01
11/15/2013 16:50	0.00	0.02
11/15/2013 16:51	0.00	0.00
Period Average =	0.01	0.00
Period Max Value =	0.24	0.02
Period Min Value =	0.00	0.00
Period Totals =	4.3000E-1	2.9000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/15/2013 17:09

End of Report: 11/15/2013 18:14



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 17:09	0.00	0.00
11/15/2013 17:10	0.01	0.00
11/15/2013 17:11	0.00	0.00
11/15/2013 17:12	0.00	0.02
11/15/2013 17:13	0.00	0.00
11/15/2013 17:14	0.01	0.00
11/15/2013 17:15	0.00	0.00
11/15/2013 17:16	0.00	0.01
11/15/2013 17:17	0.00	0.00
11/15/2013 17:18	0.01	0.00
11/15/2013 17:19	0.00	0.00
11/15/2013 17:20	0.00	0.01
11/15/2013 17:21	0.00	0.00
11/15/2013 17:22	0.01	0.00
11/15/2013 17:23	0.00	0.00
11/15/2013 17:24	0.00	0.02
11/15/2013 17:25	0.00	0.00
11/15/2013 17:26	0.01	0.00
11/15/2013 17:27	0.00	0.01
11/15/2013 17:28	0.00	0.00
11/15/2013 17:29	0.01	0.00
11/15/2013 17:30	0.00	0.00
11/15/2013 17:31	0.00	0.02
11/15/2013 17:32	0.00	0.00
11/15/2013 17:33	0.01	0.00
11/15/2013 17:34	0.00	0.00
11/15/2013 17:35	0.00	0.01
11/15/2013 17:36	0.00	0.00
11/15/2013 17:37	0.00	0.00
11/15/2013 17:38	0.00	0.01
11/15/2013 17:39	0.00	0.00
11/15/2013 17:40	0.01	0.00
11/15/2013 17:41	0.00	0.00
11/15/2013 17:42	0.00	0.02
11/15/2013 17:43	0.00	0.00
11/15/2013 17:44	0.01	0.00
11/15/2013 17:45	0.00	0.01
11/15/2013 17:46	0.00	0.01
11/15/2013 17:47	0.00	0.00
11/15/2013 17:48	0.01	0.00
11/15/2013 17:49	0.00	0.00

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/15/2013 17:50	0.00	0.02
11/15/2013 17:51	0.00	0.00
11/15/2013 17:52	0.01	0.00
11/15/2013 17:53	0.00	0.00
11/15/2013 17:54	0.00	0.01
11/15/2013 17:55	0.00	0.00
11/15/2013 17:56	0.00	0.00
11/15/2013 17:57	0.00	0.01
11/15/2013 17:58	0.00	0.00
11/15/2013 17:59	0.01	0.00
11/15/2013 18:00	0.00	0.00
11/15/2013 18:01	0.00	0.02
11/15/2013 18:02	0.00	0.00
11/15/2013 18:03	0.01	0.00
11/15/2013 18:04	0.00	0.01
11/15/2013 18:05	0.00	0.00
11/15/2013 18:06	0.00	0.00
11/15/2013 18:07	0.00	0.00
11/15/2013 18:08	0.00	0.02
11/15/2013 18:09	0.00	0.00
11/15/2013 18:10	0.01	0.00
11/15/2013 18:11	0.00	0.00
11/15/2013 18:12	0.00	0.01
11/15/2013 18:13	0.00	0.00
11/15/2013 18:14	0.00	0.00
Period Average =	0.00	0.00
Period Max Value =	0.01	0.02
Period Min Value =	0.00	0.00
Period Totals =	1.4000E-1	2.5000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/16/2013 09:01

End of Report: 11/16/2013 10:06



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 09:01	0.48	0.02
11/16/2013 09:02	0.00	0.00
11/16/2013 09:03	0.01	0.00
11/16/2013 09:04	0.28	0.01
11/16/2013 09:05	0.32	0.00
11/16/2013 09:06	0.04	0.00
11/16/2013 09:07	0.01	0.00
11/16/2013 09:08	0.00	0.00
11/16/2013 09:09	0.00	0.02
11/16/2013 09:10	0.00	0.00
11/16/2013 09:11	0.01	0.00
11/16/2013 09:12	0.00	0.00
11/16/2013 09:13	0.00	0.01
11/16/2013 09:14	0.00	0.00
11/16/2013 09:15	0.00	0.00
11/16/2013 09:16	0.00	0.01
11/16/2013 09:17	0.00	0.00
11/16/2013 09:18	0.01	0.00
11/16/2013 09:19	0.00	0.00
11/16/2013 09:20	0.00	0.02
11/16/2013 09:21	0.00	0.00
11/16/2013 09:22	0.25	0.00
11/16/2013 09:23	0.20	0.01
11/16/2013 09:24	0.00	0.00
11/16/2013 09:25	0.00	0.00
11/16/2013 09:26	0.00	0.00
11/16/2013 09:27	0.00	0.02
11/16/2013 09:28	0.00	0.00
11/16/2013 09:29	0.01	0.00
11/16/2013 09:30	0.00	0.00
11/16/2013 09:31	0.00	0.01
11/16/2013 09:32	0.00	0.00
11/16/2013 09:33	0.01	0.00
11/16/2013 09:34	0.00	0.00
11/16/2013 09:35	0.00	0.01
11/16/2013 09:36	0.00	0.00
11/16/2013 09:37	0.01	0.00
11/16/2013 09:38	0.00	0.00
11/16/2013 09:39	0.00	0.02
11/16/2013 09:40	0.00	0.00
11/16/2013 09:41	0.01	0.00

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 09:42	0.00	0.01
11/16/2013 09:43	0.00	0.00
11/16/2013 09:44	0.01	0.00
11/16/2013 09:45	0.00	0.00
11/16/2013 09:46	0.00	0.02
11/16/2013 09:47	0.00	0.00
11/16/2013 09:48	0.01	0.00
11/16/2013 09:49	0.00	0.00
11/16/2013 09:50	0.00	0.01
11/16/2013 09:51	0.00	0.00
11/16/2013 09:52	0.00	0.00
11/16/2013 09:53	0.00	0.01
11/16/2013 09:54	0.00	0.00
11/16/2013 09:55	0.01	0.00
11/16/2013 09:56	0.00	0.00
11/16/2013 09:57	0.00	0.02
11/16/2013 09:58	0.00	0.00
11/16/2013 09:59	0.01	0.00
11/16/2013 10:00	0.00	0.01
11/16/2013 10:01	0.00	0.02
11/16/2013 10:02	0.00	0.00
11/16/2013 10:03	0.00	0.00
11/16/2013 10:04	0.00	0.00
11/16/2013 10:05	0.00	0.02
11/16/2013 10:06	0.00	0.00
Period Average =	0.03	0.00
Period Max Value =	0.48	0.02
Period Min Value =	0.00	0.00
Period Totals =	1.6900E+0	2.8000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/16/2013 10:25

End of Report: 11/16/2013 11:30



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 10:25	0.01	0.00
11/16/2013 10:26	0.00	0.00
11/16/2013 10:27	0.00	0.02
11/16/2013 10:28	0.00	0.00
11/16/2013 10:29	0.01	0.00
11/16/2013 10:30	0.00	0.00
11/16/2013 10:31	0.00	0.01
11/16/2013 10:32	0.00	0.00
11/16/2013 10:33	0.01	0.00
11/16/2013 10:34	0.00	0.00
11/16/2013 10:35	0.00	0.02
11/16/2013 10:36	0.00	0.00
11/16/2013 10:37	0.01	0.00
11/16/2013 10:38	0.00	0.01
11/16/2013 10:39	0.00	0.00
11/16/2013 10:40	0.00	0.00
11/16/2013 10:41	0.00	0.00
11/16/2013 10:42	0.00	0.02
11/16/2013 10:43	0.00	0.00
11/16/2013 10:44	0.01	0.00
11/16/2013 10:45	0.00	0.00
11/16/2013 10:46	0.00	0.01
11/16/2013 10:47	0.00	0.00
11/16/2013 10:48	0.00	0.00
11/16/2013 10:49	0.00	0.01
11/16/2013 10:50	0.00	0.00
11/16/2013 10:51	0.01	0.00
11/16/2013 10:52	0.00	0.00
11/16/2013 10:53	0.00	0.02
11/16/2013 10:54	0.00	0.00
11/16/2013 10:55	0.01	0.00
11/16/2013 10:56	0.00	0.01
11/16/2013 10:57	0.00	0.02
11/16/2013 10:58	0.00	0.00
11/16/2013 10:59	0.00	0.00
11/16/2013 11:00	0.00	0.00
11/16/2013 11:01	0.00	0.02
11/16/2013 11:02	0.00	0.00
11/16/2013 11:03	0.01	0.00
11/16/2013 11:04	0.00	0.00
11/16/2013 11:05	0.00	0.01

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 11:06	0.00	0.00
11/16/2013 11:07	0.00	0.00
11/16/2013 11:08	0.00	0.01
11/16/2013 11:09	0.00	0.00
11/16/2013 11:10	0.01	0.00
11/16/2013 11:11	0.00	0.00
11/16/2013 11:12	0.00	0.02
11/16/2013 11:13	0.00	0.00
11/16/2013 11:14	0.01	0.00
11/16/2013 11:15	0.00	0.00
11/16/2013 11:16	0.00	0.00
11/16/2013 11:17	0.00	0.00
11/16/2013 11:18	0.00	0.00
11/16/2013 11:19	0.00	0.02
11/16/2013 11:20	0.00	0.00
11/16/2013 11:21	0.01	0.00
11/16/2013 11:22	0.00	0.00
11/16/2013 11:23	0.00	0.02
11/16/2013 11:24	0.00	0.00
11/16/2013 11:25	0.00	0.00
11/16/2013 11:26	0.00	0.00
11/16/2013 11:27	0.00	0.01
11/16/2013 11:28	0.00	0.00
11/16/2013 11:29	0.01	0.00
11/16/2013 11:30	0.00	0.00
Period Average =	0.00	0.00
Period Max Value =	0.01	0.02
Period Min Value =	0.00	0.00
Period Totals =	1.2000E-1	2.6000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/16/2013 11:48

End of Report: 11/16/2013 12:53



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 11:48	0.14	0.00
11/16/2013 11:49	0.00	0.02
11/16/2013 11:50	0.00	0.00
11/16/2013 11:51	0.01	0.00
11/16/2013 11:52	0.00	0.00
11/16/2013 11:53	0.00	0.01
11/16/2013 11:54	0.00	0.00
11/16/2013 11:55	0.00	0.00
11/16/2013 11:56	0.00	0.00
11/16/2013 11:57	0.00	0.02
11/16/2013 11:58	0.00	0.00
11/16/2013 11:59	0.01	0.00
11/16/2013 12:00	0.00	0.00
11/16/2013 12:01	0.00	0.01
11/16/2013 12:02	0.00	0.00
11/16/2013 12:03	0.00	0.00
11/16/2013 12:04	0.00	0.01
11/16/2013 12:05	0.00	0.00
11/16/2013 12:06	0.01	0.00
11/16/2013 12:07	0.00	0.00
11/16/2013 12:08	0.00	0.02
11/16/2013 12:09	0.00	0.00
11/16/2013 12:10	0.01	0.00
11/16/2013 12:11	0.00	0.00
11/16/2013 12:12	0.00	0.01
11/16/2013 12:13	0.00	0.00
11/16/2013 12:14	0.00	0.00
11/16/2013 12:15	0.00	0.02
11/16/2013 12:16	0.00	0.00
11/16/2013 12:17	0.01	0.00
11/16/2013 12:18	0.00	0.00
11/16/2013 12:19	0.00	0.02
11/16/2013 12:20	0.00	0.00
11/16/2013 12:21	0.00	0.00
11/16/2013 12:22	0.00	0.00
11/16/2013 12:23	0.00	0.01
11/16/2013 12:24	0.00	0.00
11/16/2013 12:25	0.01	0.00
11/16/2013 12:26	0.00	0.00
11/16/2013 12:27	0.00	0.02
11/16/2013 12:28	0.00	0.00

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 12:29	0.01	0.00
11/16/2013 12:30	0.00	0.01
11/16/2013 12:31	0.00	0.00
11/16/2013 12:32	0.00	0.00
11/16/2013 12:33	0.00	0.00
11/16/2013 12:34	0.00	0.02
11/16/2013 12:35	0.00	0.00
11/16/2013 12:36	0.01	0.00
11/16/2013 12:37	0.00	0.00
11/16/2013 12:38	0.00	0.02
11/16/2013 12:39	0.00	0.00
11/16/2013 12:40	0.01	0.00
11/16/2013 12:41	0.00	0.01
11/16/2013 12:42	0.00	0.00
11/16/2013 12:43	0.01	0.00
11/16/2013 12:44	0.00	0.00
11/16/2013 12:45	0.00	0.02
11/16/2013 12:46	0.00	0.00
11/16/2013 12:47	0.01	0.00
11/16/2013 12:48	0.00	0.00
11/16/2013 12:49	0.00	0.01
11/16/2013 12:50	0.00	0.00
11/16/2013 12:51	0.00	0.00
11/16/2013 12:52	0.00	0.00
11/16/2013 12:53	0.00	0.02
Period Average =	0.00	0.00
Period Max Value =	0.14	0.02
Period Min Value =	0.00	0.00
Period Totals =	2.5000E-1	2.8000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/16/2013 13:15

End of Report: 11/16/2013 14:19



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 13:15	0.00	0.02
11/16/2013 13:16	0.00	0.00
11/16/2013 13:17	0.00	0.00
11/16/2013 13:18	0.00	0.00
11/16/2013 13:19	0.00	0.01
11/16/2013 13:20	0.00	0.00
11/16/2013 13:21	0.01	0.00
11/16/2013 13:22	0.00	0.00
11/16/2013 13:23	0.00	0.02
11/16/2013 13:24	0.00	0.00
11/16/2013 13:25	0.01	0.00
11/16/2013 13:26	0.00	0.00
11/16/2013 13:27	0.00	0.01
11/16/2013 13:28	0.00	0.00
11/16/2013 13:29	0.00	0.00
11/16/2013 13:30	0.00	0.02
11/16/2013 13:31	0.00	0.00
11/16/2013 13:32	0.01	0.00
11/16/2013 13:33	0.00	0.00
11/16/2013 13:34	0.00	0.02
11/16/2013 13:35	0.00	0.00
11/16/2013 13:36	0.01	0.00
11/16/2013 13:37	0.00	0.01
11/16/2013 13:38	0.00	0.00
11/16/2013 13:39	0.01	0.00
11/16/2013 13:40	0.00	0.00
11/16/2013 13:41	0.00	0.02
11/16/2013 13:42	0.00	0.00
11/16/2013 13:43	0.01	0.00
11/16/2013 13:44	0.00	0.00
11/16/2013 13:45	0.00	0.00
11/16/2013 13:46	0.00	0.00
11/16/2013 13:47	0.00	0.00
11/16/2013 13:48	0.00	0.00
11/16/2013 13:49	0.00	0.02
11/16/2013 13:50	0.00	0.00
11/16/2013 13:51	0.01	0.00
11/16/2013 13:52	0.00	0.00
11/16/2013 13:53	0.00	0.02
11/16/2013 13:54	0.00	0.00
11/16/2013 13:55	0.01	0.00

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 13:56	0.00	0.01
11/16/2013 13:57	0.00	0.00
11/16/2013 13:58	0.01	0.00
11/16/2013 13:59	0.00	0.00
11/16/2013 14:00	0.00	0.02
11/16/2013 14:01	0.00	0.00
11/16/2013 14:02	0.01	0.00
11/16/2013 14:03	0.00	0.00
11/16/2013 14:04	0.00	0.01
11/16/2013 14:05	0.00	0.00
11/16/2013 14:06	0.00	0.00
11/16/2013 14:07	0.00	0.01
11/16/2013 14:08	0.00	0.00
11/16/2013 14:09	0.01	0.00
11/16/2013 14:10	0.00	0.00
11/16/2013 14:11	0.00	0.02
11/16/2013 14:12	0.00	0.00
11/16/2013 14:13	0.00	0.00
11/16/2013 14:14	0.01	0.00
11/16/2013 14:15	0.00	0.01
11/16/2013 14:16	0.00	0.00
11/16/2013 14:17	0.01	0.00
11/16/2013 14:18	0.00	0.00
11/16/2013 14:19	0.00	0.02
Period Average =	0.00	0.00
Period Max Value =	0.01	0.02
Period Min Value =	0.00	0.00
Period Totals =	1.3000E-1	2.7000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/16/2013 14:39

End of Report: 11/16/2013 16:01



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 14:39	0.01	0.00
11/16/2013 14:40	0.00	0.00
11/16/2013 14:41	0.00	0.01
11/16/2013 14:42	0.00	0.01
11/16/2013 14:43	0.00	0.00
11/16/2013 14:44	0.00	0.00
11/16/2013 14:45	0.00	0.01
11/16/2013 14:46	0.00	0.00
11/16/2013 14:47	0.01	0.00
11/16/2013 14:48	0.00	0.00
11/16/2013 14:49	0.00	0.02
11/16/2013 14:50	0.00	0.00
11/16/2013 14:51	0.01	0.00
11/16/2013 14:52	0.00	0.01
11/16/2013 14:53	0.00	0.00
11/16/2013 14:54	0.01	0.00
11/16/2013 14:55	0.00	0.00
11/16/2013 14:56	0.00	0.02
11/16/2013 14:57	0.00	0.00
11/16/2013 14:58	0.01	0.00
11/16/2013 14:59	0.00	0.00
11/16/2013 15:00	0.00	0.01
11/16/2013 15:01	0.00	0.00
11/16/2013 15:02	0.00	0.00
11/16/2013 15:03	0.00	0.01
11/16/2013 15:04	0.00	0.00
11/16/2013 15:05	0.01	0.00
11/16/2013 15:06	0.00	0.00
11/16/2013 15:07	0.00	0.02
11/16/2013 15:08	0.00	0.00
11/16/2013 15:09	0.00	0.00
11/16/2013 15:10	0.01	0.00
11/16/2013 15:11	0.00	0.01
11/16/2013 15:12	0.00	0.00
11/16/2013 15:13	0.01	0.00
11/16/2013 15:14	0.00	0.00
11/16/2013 15:15	0.00	0.02
11/16/2013 15:16	0.00	0.00
11/16/2013 15:17	0.01	0.00
11/16/2013 15:18	0.00	0.00
11/16/2013 15:19	0.00	0.01

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 15:20	0.00	0.00
11/16/2013 15:21	0.00	0.00
11/16/2013 15:22	0.00	0.01
11/16/2013 15:23	0.00	0.00
11/16/2013 15:24	0.01	0.00
11/16/2013 15:25	0.00	0.00
11/16/2013 15:26	0.00	0.02
11/16/2013 15:27	0.00	0.00
11/16/2013 15:28	0.01	0.00
11/16/2013 15:29	0.00	0.01
11/16/2013 15:30	0.00	0.00
11/16/2013 15:31	0.00	0.00
11/16/2013 15:32	0.00	0.00
11/16/2013 15:33	0.00	0.02
11/16/2013 15:34	0.00	0.00
11/16/2013 15:35	0.01	0.00
11/16/2013 15:36	0.00	0.00
11/16/2013 15:37	0.00	0.00
11/16/2013 15:38	0.00	0.01
11/16/2013 15:39	0.00	0.00
11/16/2013 15:40	0.00	0.00
11/16/2013 15:41	0.00	0.01
11/16/2013 15:42	0.00	0.00
11/16/2013 15:43	0.01	0.00
11/16/2013 15:44	0.00	0.00
11/16/2013 15:45	0.00	0.02
11/16/2013 15:46	0.00	0.00
11/16/2013 15:47	0.01	0.00
11/16/2013 15:48	0.00	0.01
11/16/2013 15:49	0.00	0.00
11/16/2013 15:50	0.00	0.00
11/16/2013 15:51	0.00	0.00
11/16/2013 15:52	0.00	0.02
11/16/2013 15:53	0.00	0.00
11/16/2013 15:54	0.01	0.00
11/16/2013 15:55	0.02	0.00
11/16/2013 15:56	0.24	0.01
11/16/2013 15:57	0.00	0.00
11/16/2013 15:58	0.00	0.00
11/16/2013 15:59	0.00	0.01
11/16/2013 16:00	0.00	0.00
11/16/2013 16:01	0.01	0.00
Period Average =	0.01	0.00
Period Max Value =	0.24	0.02
Period Min Value =	0.00	0.00
Period Totals =	4.2000E-1	3.1000E-1
Period % Recovery =	100.0	100.0

Data Summary Report

Company: GREC Gainesville, FL
10001 Northwest 13th St
Gainesville, FL 32653

Data Group: PLC Upload

Report Name: Summary Rpt (HCL, HF)

Start of Report: 11/16/2013 16:23

End of Report: 11/16/2013 17:28



Validation: All Available Data

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 16:23	0.00	0.00
11/16/2013 16:24	0.01	0.00
11/16/2013 16:25	0.00	0.01
11/16/2013 16:26	0.00	0.00
11/16/2013 16:27	0.00	0.00
11/16/2013 16:28	0.00	0.00
11/16/2013 16:29	0.00	0.02
11/16/2013 16:30	0.00	0.00
11/16/2013 16:31	0.01	0.00
11/16/2013 16:32	0.01	0.00
11/16/2013 16:33	0.00	0.00
11/16/2013 16:34	0.00	0.01
11/16/2013 16:35	0.00	0.00
11/16/2013 16:36	0.00	0.00
11/16/2013 16:37	0.00	0.01
11/16/2013 16:38	0.00	0.00
11/16/2013 16:39	0.01	0.00
11/16/2013 16:40	0.00	0.00
11/16/2013 16:41	0.00	0.02
11/16/2013 16:42	0.00	0.00
11/16/2013 16:43	0.01	0.00
11/16/2013 16:44	0.00	0.01
11/16/2013 16:45	0.00	0.00
11/16/2013 16:46	0.00	0.00
11/16/2013 16:47	0.00	0.00
11/16/2013 16:48	0.00	0.02
11/16/2013 16:49	0.00	0.00
11/16/2013 16:50	0.01	0.00
11/16/2013 16:51	0.00	0.00
11/16/2013 16:52	0.00	0.01
11/16/2013 16:53	0.00	0.00
11/16/2013 16:54	0.00	0.00
11/16/2013 16:55	0.00	0.01
11/16/2013 16:56	0.00	0.00
11/16/2013 16:57	0.01	0.00
11/16/2013 16:58	0.00	0.00
11/16/2013 16:59	0.00	0.02
11/16/2013 17:00	0.00	0.01
11/16/2013 17:01	0.00	0.00
11/16/2013 17:02	0.01	0.00
11/16/2013 17:03	0.00	0.01

Group#-Channel#	G1-C6	G1-C7
Long Descrip.	1-Min HCL	1-Min HF
Short Descrip.	HCL	HF
Units	ppm	ppm
Range	0-50	0-50
11/16/2013 17:04	0.00	0.00
11/16/2013 17:05	0.00	0.00
11/16/2013 17:06	0.00	0.00
11/16/2013 17:07	0.00	0.02
11/16/2013 17:08	0.00	0.00
11/16/2013 17:09	0.01	0.00
11/16/2013 17:10	0.00	0.00
11/16/2013 17:11	0.00	0.01
11/16/2013 17:12	0.00	0.00
11/16/2013 17:13	0.00	0.00
11/16/2013 17:14	0.00	0.01
11/16/2013 17:15	0.00	0.00
11/16/2013 17:16	0.01	0.00
11/16/2013 17:17	0.00	0.00
11/16/2013 17:18	0.00	0.02
11/16/2013 17:19	0.00	0.00
11/16/2013 17:20	0.01	0.00
11/16/2013 17:21	0.00	0.01
11/16/2013 17:22	0.00	0.00
11/16/2013 17:23	0.00	0.00
11/16/2013 17:24	0.00	0.00
11/16/2013 17:25	0.00	0.02
11/16/2013 17:26	0.00	0.00
11/16/2013 17:27	0.01	0.00
11/16/2013 17:28	0.01	0.00
Period Average =	0.00	0.00
Period Max Value =	0.01	0.02
Period Min Value =	0.00	0.00
Period Totals =	1.3000E-1	2.5000E-1
Period % Recovery =	100.0	100.0